WASHINGTON STATE PATROL - TOXICOLOGY LABORATORY DIVISION
2203 Airport Way S, Suite 360 SEATTLE, WA 98134

ANSI ASCLD/LAB-International ACCREDITED LABORATORY SINCE 11/16/2009

# QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

**BATCH REPORT: 15052**

**CUSTOMER INFORMATION**
Washington State Patrol – Breath Test Program
811 East Roanoke SEATTLE, WA 98102

**TESTING PROCEDURE USED:** TLD Technical Manual, Chapter 4.0 Certification of Simulator Solutions; Headspace-Gas Chromatography.

**TESTING ITEM INFORMATION**
TARGET VAPOR CONCENTRATION: 0.04 g/210L
DATE PREPARED: 11/13/2015
BATCH UNITS: g/100mL
IDENTITY: QAP Solution
PREPARED BY: Justin L. Knoy

| | JLK | AG | CM |
|---|---|---|---|
| 1 | 0.051 | 0.050 | 0.049 |
| 2 | 0.051 | 0.050 | 0.050 |
| 3 | 0.051 | 0.050 | 0.050 |
| 4 | 0.051 | 0.050 | 0.049 |
| 5 | 0.051 | 0.051 | 0.049 |
| C | 0.101 | 0.102 | 0.101 |

**ETHANOL CONTROL INFORMATION**
LOT NUMBER: FN08051301 EXPIRATION: 10/2018 CONCENTRATION: 0.10 g/100mL

**RESULTS OF TESTING**
AVERAGE SOLUTION CONCENTRATION: 0.0502 g/100mL
STANDARD DEVIATION: 0.00077
PRECISION CV (%): 1.54
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0408 g/210L**
EXPANDED UNCERTAINTY: ± 0.0010 (k=2, 95.45% confidence interval)

**WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION**

Lisa Noble Forensic Scientist Supervisor

1/13/16
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

| ANALYST | NAME | SIGNATURE | DATE TESTED |
|---|---|---|---|
| JLK | Justin L. Knoy | | 11/13/2015 |
| AG | Andrew Gingras | | 11/13/2015 |
| CM | Christie Mitchell-Mata | | 11/18/2015 |

Washington State Patrol - Toxicology Laboratory Division
QAP Test Report Calculation Record

**QAP Solution Batch #: 15052** **Date Prepared: 11/13/2015**

| | | | |
|---|---|---|---|
| Analyst: | JLK | AG | CM |
| Date Tested: | 11/13/2015 | 11/13/2015 | 11/18/2015 |
| Instrument: | HSGC #1 | HSGC #1 | HSGC #1 |
| 1 | 0.051 | 0.050 | 0.049 |
| 2 | 0.051 | 0.050 | 0.050 |
| 3 | 0.051 | 0.050 | 0.050 |
| 4 | 0.051 | 0.050 | 0.049 |
| 5 | 0.051 | 0.051 | 0.049 |
| C | 0.101 | 0.102 | 0.101 |

| $CV^2_{COA}$ | $CV^2_{QAP\ Solution}$ | $CV^2_{Control}$ | $CV^2_{Part\ Coef}$ |
|---|---|---|---|
| 0.0000084100 | 0.0000158728 | 0.0000108206 | 0.0001016326 |

Ethanol Control Lot #: FN08051301
Control Uncertainty (%): 0.29

Average Solution Concentration: 0.0502 g/100mL
Standard Deviation: 0.00077 g/100mL
Precision CV (%): 1.54
Equivalent Vapor Concentration: 0.0408 g/210L
Combined Standard Uncertainty (±): 0.0005 g/210L
Expanded Uncertainty (±): 0.0010 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Lisa Noble (Name) Lnoble (Signature) 12/10/15 (Date)

Calculations verified by: Amanda M. Black (Name) (Signature) 1-12-16 (Date)

Method: Hand Calculation

Tech. review performed by: Lisa Noble (Name) Lnoble (Signature) 12/10/15 (Date)

Washington State Patrol Toxicology Laboratory Division

# SIMULATOR SOLUTION DATA ENTRY REVIEW

**Reviewer/s:** Amanda M. Black **Date:** 1-12-16

**Location:** WSP-FLSB Seattle, WA **Solution Batch Number:** 15052

| | YES | NO | N/A |
|---|---|---|---|
| **Analysis dates do not precede preparation date:** | ☑ | ☐ | ☐ |
| **Declarations signed and properly dated:** | ☑ | ☐ | ☐ |
| **Data entry corresponds to all chromatograms:** | ☑ | ☐ | ☐ |
| **All signatures present on Test Report:** | ☑ | ☐ | ☐ |
| **Average solution concentration correct:** | ☑ | ☐ | ☐ |
| **Standard deviation correct:** | ☑ | ☐ | ☐ |
| **CV (%) correct:** | ☑ | ☐ | ☐ |
| **Equivalent vapor concentration correct:** | ☑ | ☐ | ☐ |
| **All chromatograms and sequences included in file:** | ☑ | ☐ | ☐ |
| **Ethanol control information present: (lot # present & used within expiration)** | ☑ | ☐ | ☐ |
| **Complies with accuracy and precision requirements established by the State Toxicologist:** | ☑ | ☐ | ☐ |

**Comments:**

**Reviewer Signature:** [signature] **Date:** 1-12-16

Washington State Patrol Toxicology Laboratory Division

# SOLUTION CERTIFICATE REVIEW

Please check that the data on your chromatograms is the data entered into the Test Report, that the date to the right of your name is the date that you tested the solution, and then sign the Test Report.

Please initial and date below to affirm that you have:

1) Checked your data
2) Checked the date to the right of your name on the Test Report
3) Signed the Test Report

| | Initials | Date |
|---|---|---|
| **Amanda Chandler** | | |
| **Andrew Gingras** | AG | 12/14/15 |
| **Asa Louis** | | |
| **Brittany Thomas** | | |
| **Christie Mitchell-Mata** | CM | 12/11/15 |
| **Christopher Johnston** | | |
| **David Nguyen** | | |
| **Dawn Sklerov** | | |
| **Elizabeth Wehner** | | |
| **Justin Knoy** | JK | 12-11-15 |
| **Katie Harris** | | |
| **Lyndsey Lowe** | | |
| **Naziha Nuwayhid** | | |
| **Rebecca Flaherty** | | |

Batch # 15052 fm12/10/15

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
*2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145*

# 0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 15052

I, Justin L. Knoy, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS degree in Biology, and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 15052, was prepared in the Washington State Toxicology Laboratory on 11/13/2015. I tested this solution and it was found to conform to those standards established by the State Toxicologist for the certification of simulator solution. It shall not be used to perform a quality assurance procedure after 11/13/2016.

Seattle, WA

12-11-15

Justin L. Knoy — Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
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# 0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 15052

I, Andrew Gingras, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS degree in Cell and Molecular Biology and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 15052, was prepared in the Washington State Toxicology Laboratory on 11/13/2015. I tested this solution and it was found to conform to those standards established by the State Toxicologist for the certification of simulator solution. It shall not be used to perform a quality assurance procedure after 11/13/2016.

Seattle, WA

12/14/15

Andrew Gingras Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
*2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145*

# 0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 15052

I, Christie Mitchell-Mata, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BA degree in Chemistry, MFS degree in Forensic Science, and over four years experience in forensic toxicology.

The quality assurance procedure (QAP) solution, Lot Number 15052, was prepared in the Washington State Toxicology Laboratory on 11/13/2015. I tested this solution and it was found to conform to those standards established by the State Toxicologist for the certification of simulator solution. It shall not be used to perform a quality assurance procedure after 11/13/2016.

Seattle, WA

Christie Mitchell-Mata 12/11/2015

Christie Mitchell-Mata Date

Forensic Scientist

**WSP-TLD** **COMBINED SIMULATOR SOLUTION PREPARATION WORKSHEET**

FILE A COPY IN THE BATCH FILE FOR EACH SOLUTION LISTED ON THE WORKSHEET

Preparation Date: 11-13-15 Expiration Date: 11-13-16 Initials of Preparer: JK

Lot # of 200-proof Ethanol used in preparation: ZEA0437

Date the 200-proof Ethanol bottle was opened: 11-13-15

After opening, each bottle of 200-proof Ethanol is approved for use for 6 months unless an extension is approved by the State Toxicologist. This timeframe applies to the 200-proof Ethanol only, not to simulator solutions which have a 1 year expiration.

Environmental conditions verified as acceptable: ☑

| Simulator Solution | Volume of Ethanol (mL) | Volume of Deionized Water (L) | | Batch Number |
|---|---|---|---|---|
| QAP 0.04 | 11.2 | 18 | ☑ | 15052 |
| QAP 0.08 | 22.4 | 18 | ☑ | 15053 |
| QAP 0.10 | 28.1 | 18 | ☑ | 15054 |
| QAP 0.15 | 42.1 | 18 | ☑ | 15055 |
| QAP 0.20 | 56.1 | 18 | ☑ | 15056 |
| ESS | 66.5 | 52 | ☐ | |

Stir bar is rotating ☑

Stirred for minimum 30 minutes; 2 hours for ESS ☑

Spigot purged ☑

Aliquot taken ☑

Batch labeled, packaged and sealed ☑ 11-13-15 Date

If different ethanol lot numbers are used in the preparation of solutions, record them and the corresponding solution batch numbers in the comments section.

Comments:

Analyst Signature

11-13-15 Date

Sequence: C:\HPCHEM\1\SEQUENCE\JKQARUN1.S

Sequence Parameters:

| | |
|---|---|
| Operator: | Justin Knoy |
| Data File Naming: | Prefix/Counter |
| Signal 1 Prefix: | SIG1 |
| Counter: | 0001 |
| Signal 2 Prefix: | SIG2 |
| Counter: | 0001 |
| Data Directory: | C:\HPCHEM\1\DATA\ |
| Data Subdirectory: | 151113JK |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
Ethanol Calibrator 1, E0615-01 - Exp. 12/02/2015
Ethanol Calibrator 2, E0615-02 - Exp. 12/02/2015
Ethanol Calibrator 3, E0615-03 - Exp. 12/02/2015
CTRL1 (0.04g/100mL), Lot # FN05011301 - Exp. 05/2018
CTRL2 (0.10g/100mL), Lot # FN08051301 - Exp. 10/2018
CTRL3 (0.20g/100mL), Lot # FN03211401 - Exp. 06/2019
Internal Standard Lot#P0915 - Exp. 12/18/2015

Calibration vials 1-9 filed with 15052.

Sequence Table (Front Injector):

Method and Injection Info Part:

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 1 | Vial 1 | BLANK | SIMALC1 | 1 | Sample | | |
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC1 | 1 | Calib | | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC1 | 1 | Calib | | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC1 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | 0.04 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | 0.20 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 15052-1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 15052-2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 15052-3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 15052-4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 15052-5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 15053-1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 15053-2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 15053-3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 15053-4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 15053-5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 15054-1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | 15054-2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 15054-3 | SIMALC1 | 1 | Sample | | |

15052
1/13/2015

JK

Sequence: C:\HPCHEM\1\SEQUENCE\JKQARUN1.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 27 | Vial 27 | 15054-4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 15054-5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 15055-1 | SIMALC1 | 1 | Sample | | |
| 32 | Vial 32 | 15055-2 | SIMALC1 | 1 | Sample | | |
| 33 | Vial 33 | 15055-3 | SIMALC1 | 1 | Sample | | |
| 34 | Vial 34 | 15055-4 | SIMALC1 | 1 | Sample | | |
| 35 | Vial 35 | 15055-5 | SIMALC1 | 1 | Sample | | |
| 36 | Vial 36 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 38 | Vial 38 | 15056-1 | SIMALC1 | 1 | Sample | | |
| 39 | Vial 39 | 15056-2 | SIMALC1 | 1 | Sample | | |
| 40 | Vial 40 | 15056-3 | SIMALC1 | 1 | Sample | | |
| 41 | Vial 41 | 15056-4 | SIMALC1 | 1 | Sample | | |
| 42 | Vial 42 | 15056-5 | SIMALC1 | 1 | Sample | | |
| 43 | Vial 43 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 44 | Vial 44 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

Calibration Part:

| Line | Location | SampleName | Method | CalLev | Update RF | Update RT | Interval |
|---|---|---|---|---|---|---|---|
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC1 | 1 | Replace | Replace | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC1 | 2 | Replace | Replace | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC1 | 3 | Replace | Replace | |

Sequence Table (Back Injector):

No entries - empty table!

15052
Jn 11/10/15

JR

Method C:\HPCHEM\1\METHODS\SIMALC1.M

## Calibration Table

Calib. Data Modified : Friday, November 13, 2015 11:50:48 AM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Multiplier : 1.0000
Dilution : 1.0000
Sample Amount : 0.00000
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

Sample ISTD Information:

| ISTD # | ISTD Amount [g/100mL] | Name |
|---|---|---|
| 1 | 1.20000e-2 | n-Propanol |

Signal 1: FID1 A,

| RetTime [min] | Sig | Lvl | Amount [g/100mL] | Area | Amt/Area | Ref | Grp | Name |
|---|---|---|---|---|---|---|---|---|
| 1.090 | 1 | 1 | 7.97800e-2 | 918.98016 | 8.68136e-5 | 1 | | Ethanol |
| | | 2 | 1.60980e-1 | 1798.47375 | 8.95092e-5 | | | |
| | | 3 | 3.18440e-1 | 3554.04883 | 8.95992e-5 | | | |
| 1.754 | 1 | 1 | 1.20000e-2 | 2614.82617 | 4.58922e-6 | I1 | | n-Propanol |
| | | 2 | 1.20000e-2 | 2574.15698 | 4.66172e-6 | | | |
| | | 3 | 1.20000e-2 | 2550.39453 | 4.70515e-6 | | | |

15052
11/12/2015

## Peak Sum Table

***No Entries in table***

JR

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Calibration Curves

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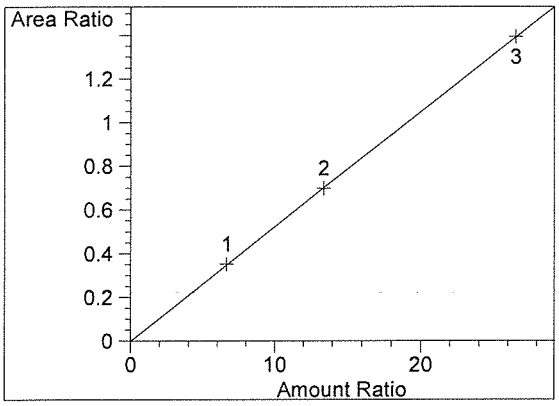
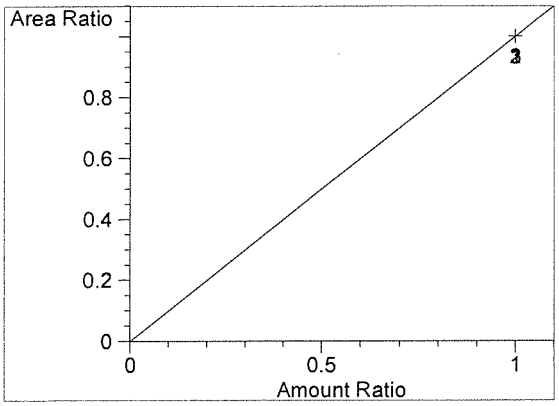



Ethanol at exp. RT: 1.090
FID1 A,
Correlation: 0.99998
Residual Std. Dev.: 0.00417
Formula: y = mx + b
m: 5.24566e-2
b: -2.08714e-4
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 1.754
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

15052
fm 12/10/15

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

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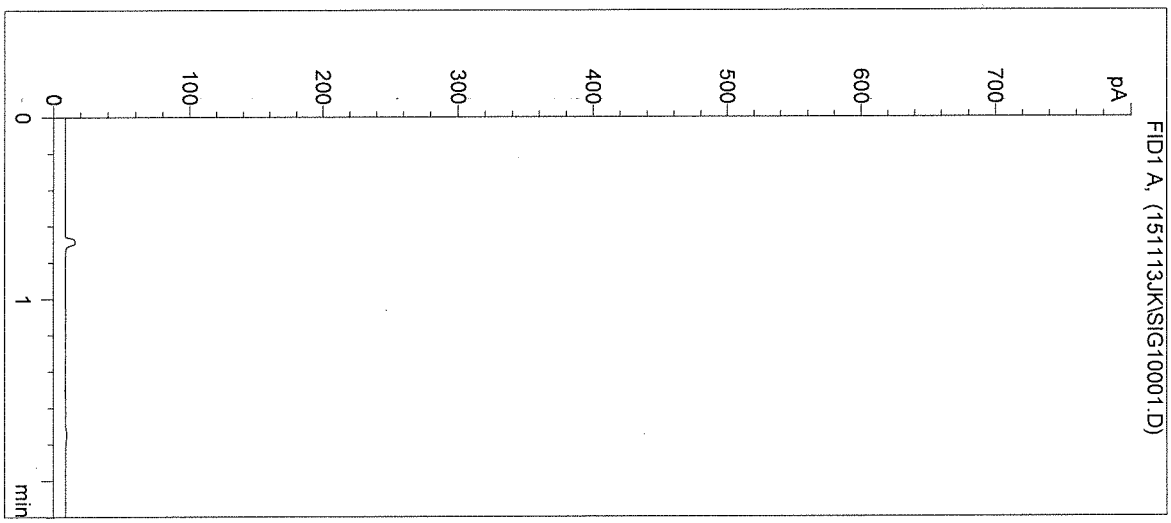
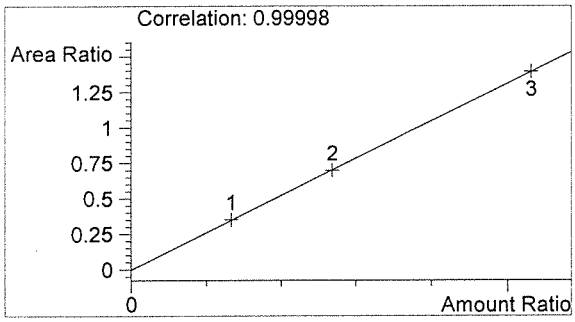
Inj. Date: 11/13/2015 11:23:29 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

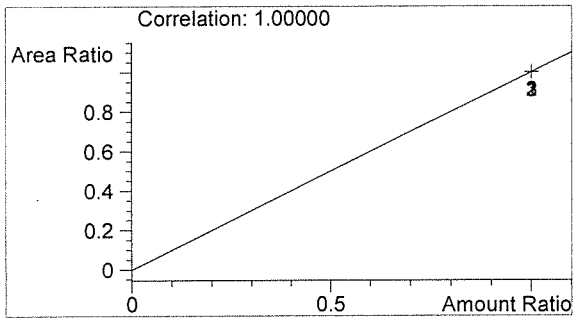
Sample Name: BLANK
Operator: Justin Knoy
Location: Vial 1




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |




Ethanol 0.000 g/100mL




n-Propanol 0.000 g/100mL

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2203 Airport Way S Seattle, WA 98134

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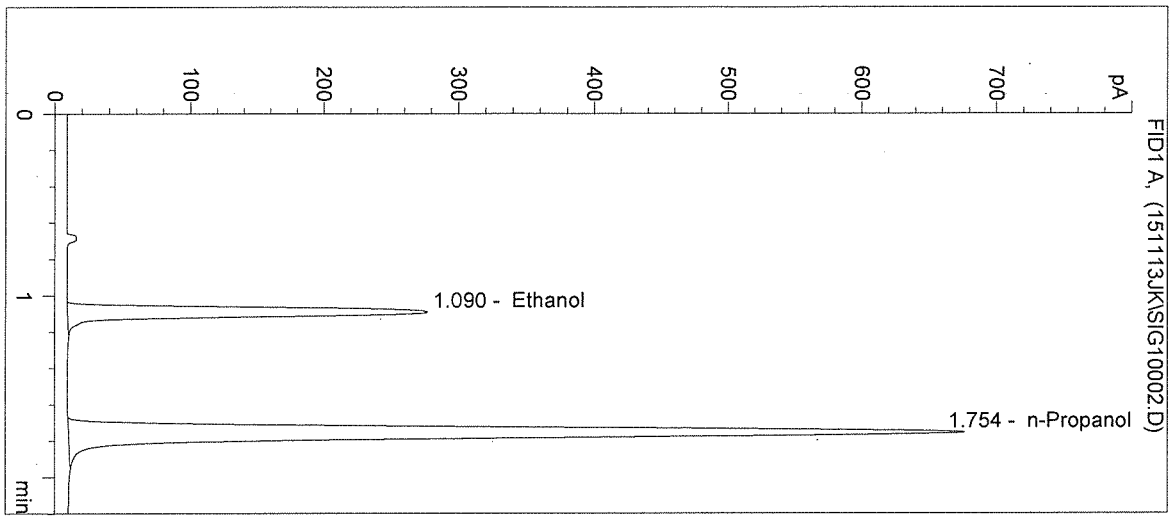
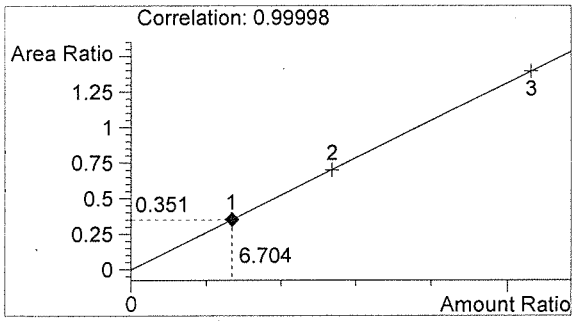
Inj. Date: 11/13/2015 11:26:49 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

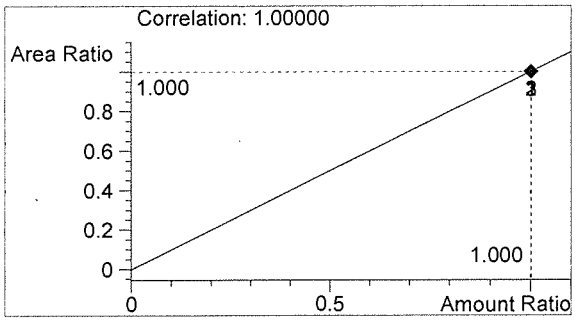
Sample Name: 0.079 CAL 1
Operator: Justin Knoy
Location: Vial 2




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 919 | 1.090 |
| 2 | n-Propanol | 2615 | 1.754 |




Ethanol 0.080 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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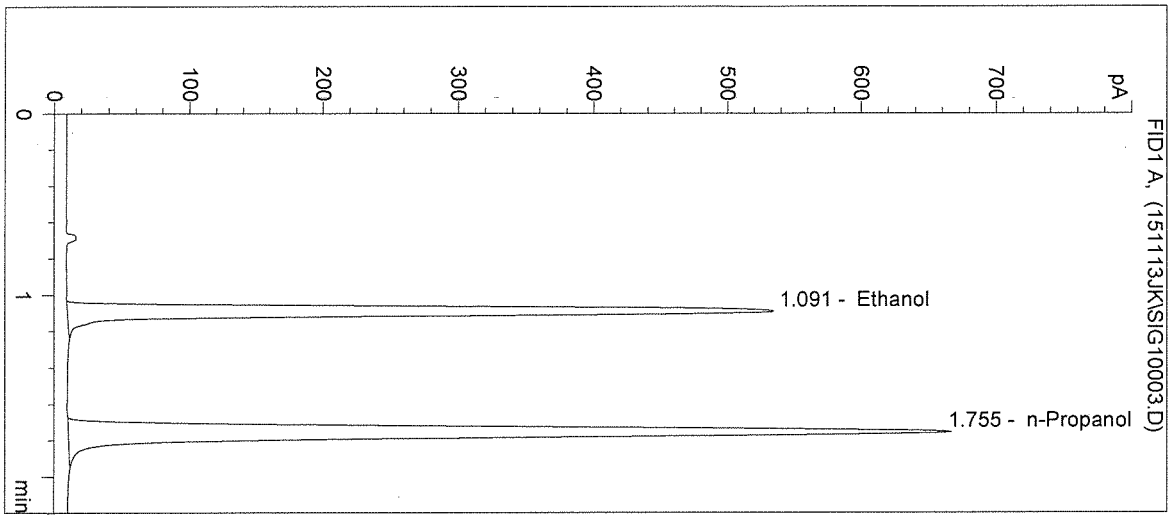
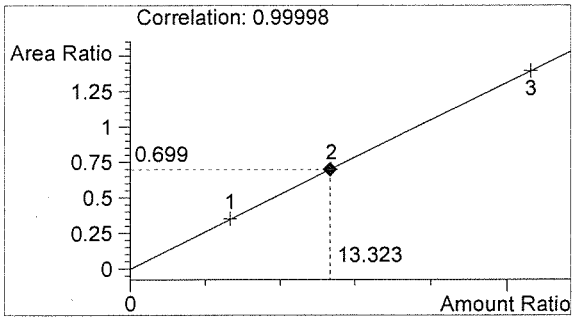
Inj. Date: 11/13/2015 11:30:04 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

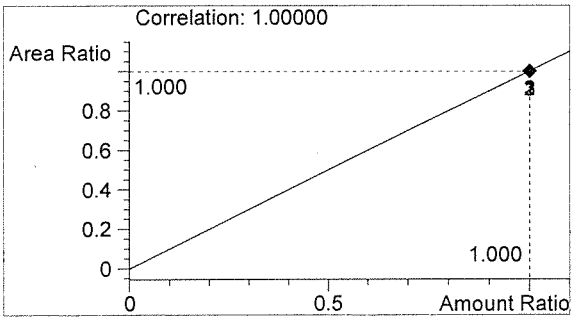
Sample Name: 0.158 CAL 2
Operator: Justin Knoy
Location: Vial 3




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1798 | 1.091 |
| 2 | n-Propanol | 2574 | 1.755 |




Ethanol 0.160 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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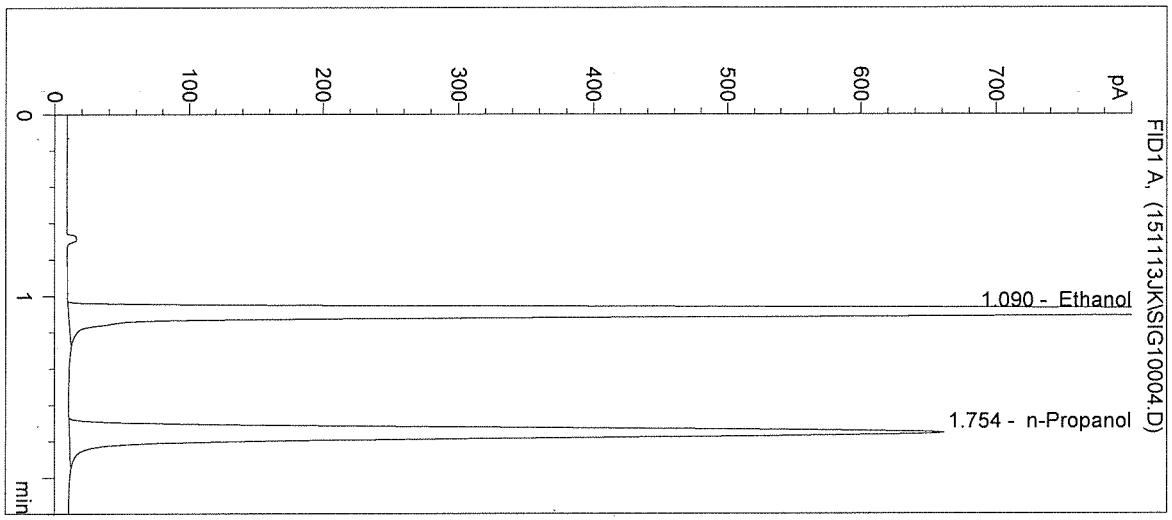
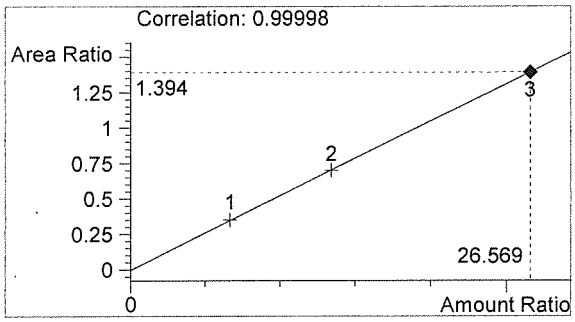
Inj. Date: 11/13/2015 11:33:21 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

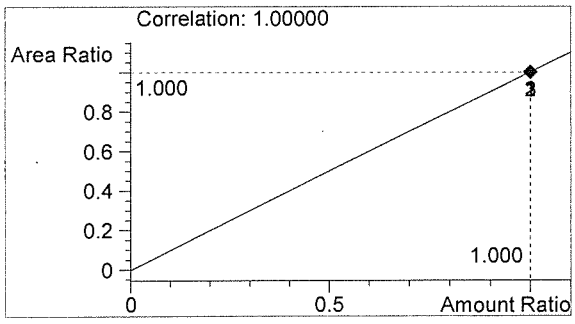
Sample Name: 0.316 CAL 3
Operator: Justin Knoy
Location: Vial 4




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 3554 | 1.090 |
| 2 | n-Propanol | 2550 | 1.754 |




Ethanol 0.319 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10004.D

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

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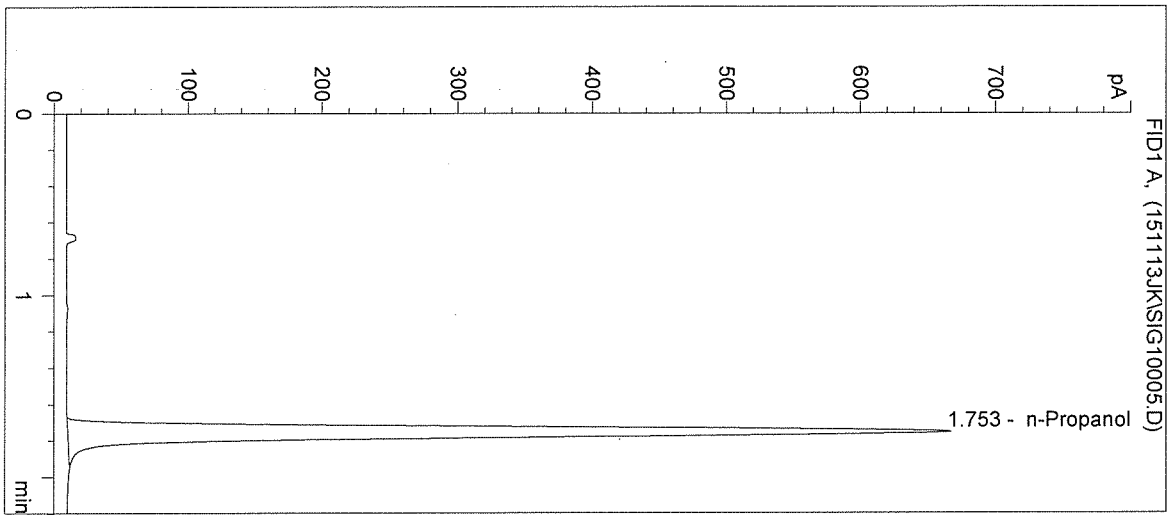
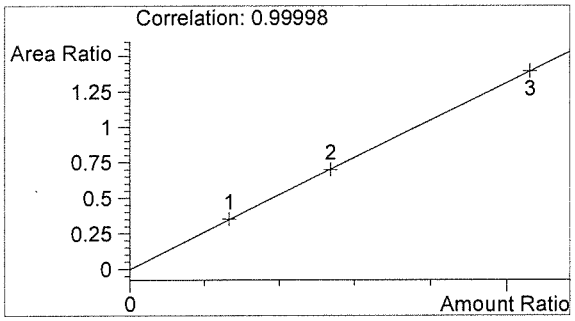
Inj. Date: 11/13/2015 11:36:35 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

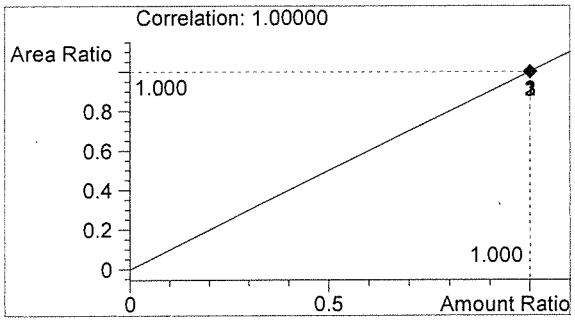
Sample Name: NEG CTRL
Operator: Justin Knoy
Location: Vial 5




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2576 | 1.753 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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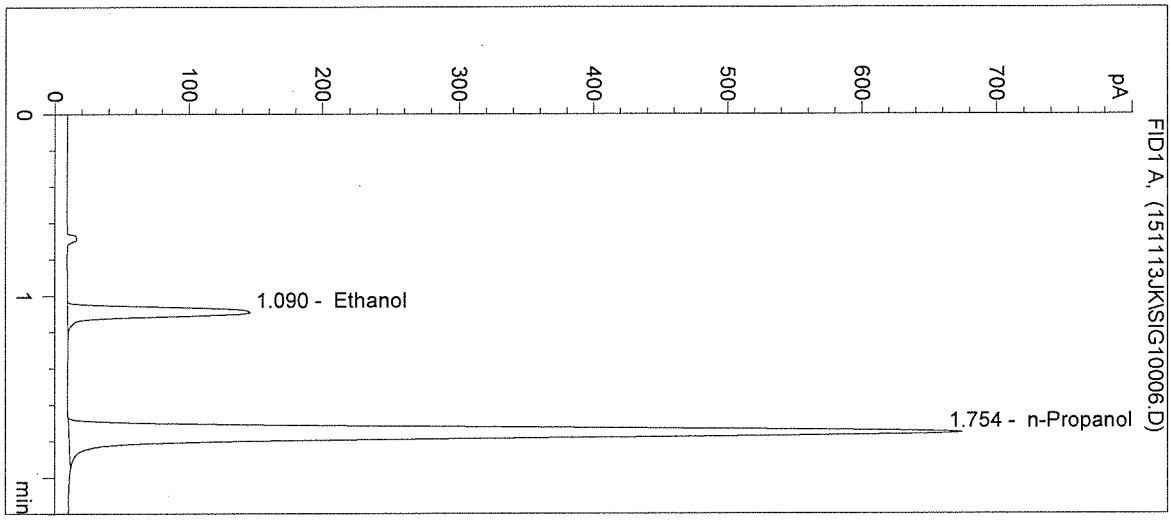
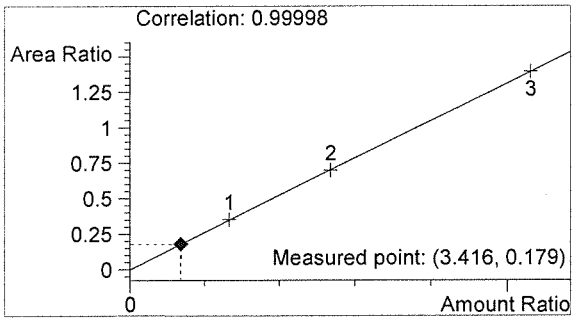
Inj. Date: 11/13/2015 11:39:48 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

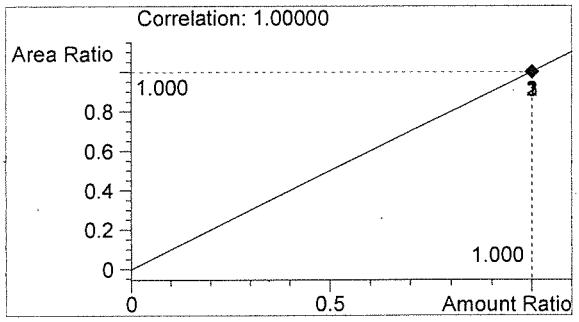
Sample Name: 0.04 CTRL
Operator: Justin Knoy
Location: Vial 6




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 465 | 1.090 |
| 2 | n-Propanol | 2599 | 1.754 |




Ethanol 0.041 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10006.D

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2203 Airport Way S Seattle, WA 98134

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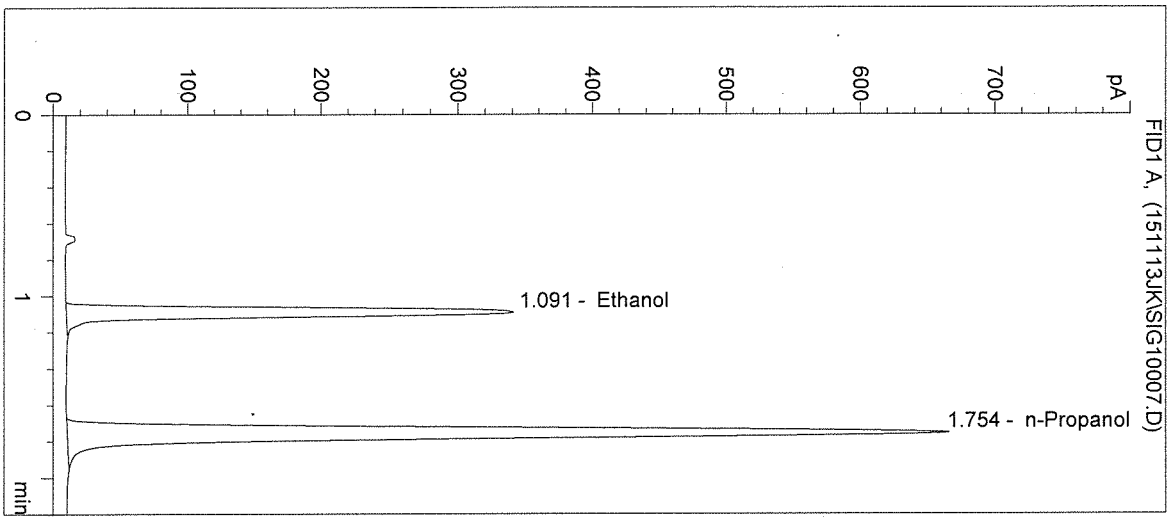
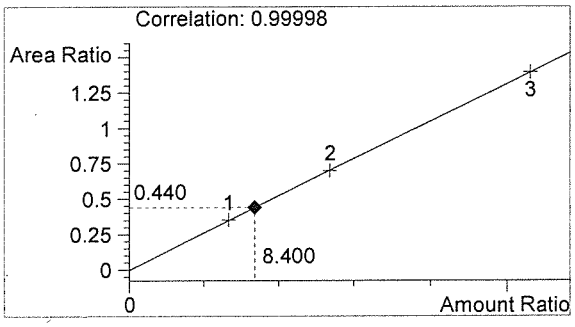
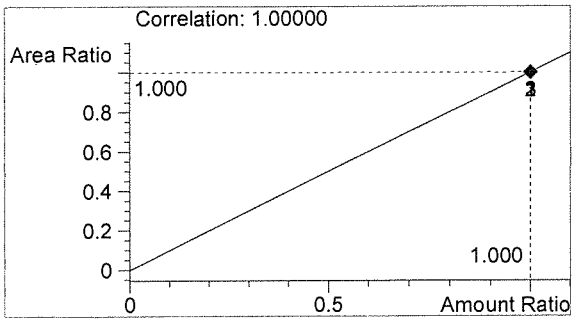
Inj. Date: 11/13/2015 11:43:01 AM  Sample Name: 0.10 CTRL
Instrument: HSGC#1  Operator: Justin Knoy
Column: DB-ALC1  Location: Vial 7
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1130 | 1.091 |
| 2 | n-Propanol | 2565 | 1.754 |




Ethanol 0.101 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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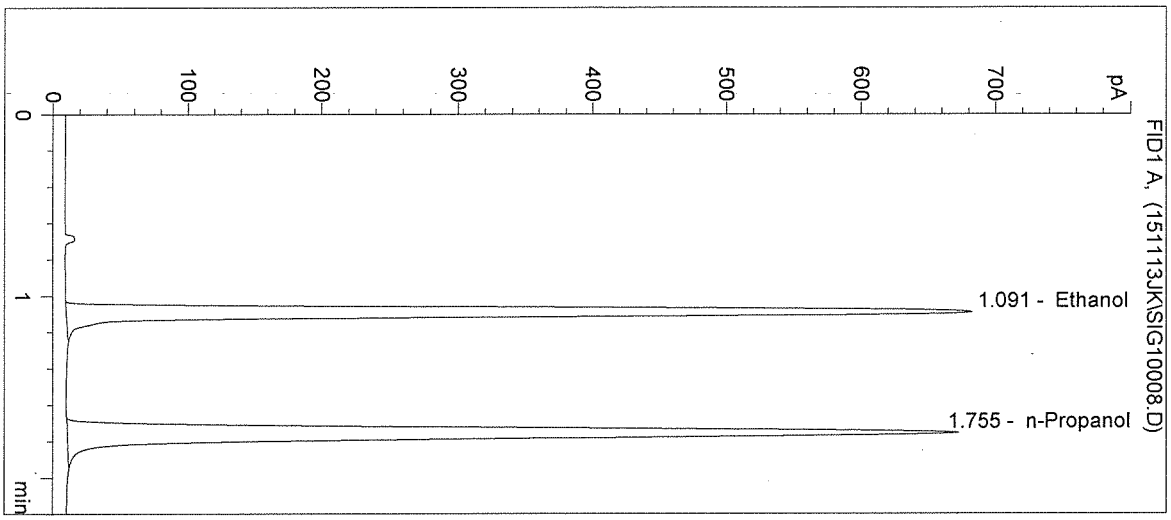
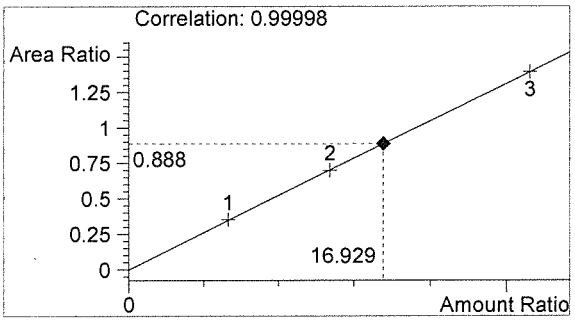
Inj. Date: 11/13/2015 11:46:15 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

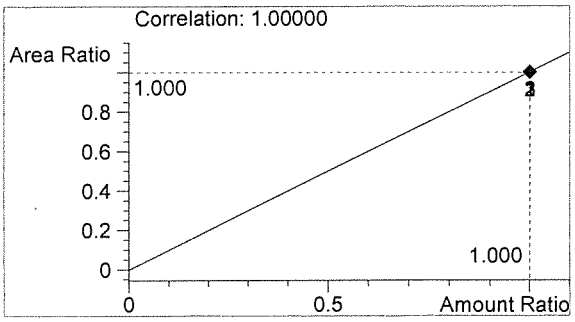
Sample Name: 0.20 CTRL
Operator: Justin Knoy
Location: Vial 8




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2300 | 1.091 |
| 2 | n-Propanol | 2591 | 1.755 |




Ethanol 0.203 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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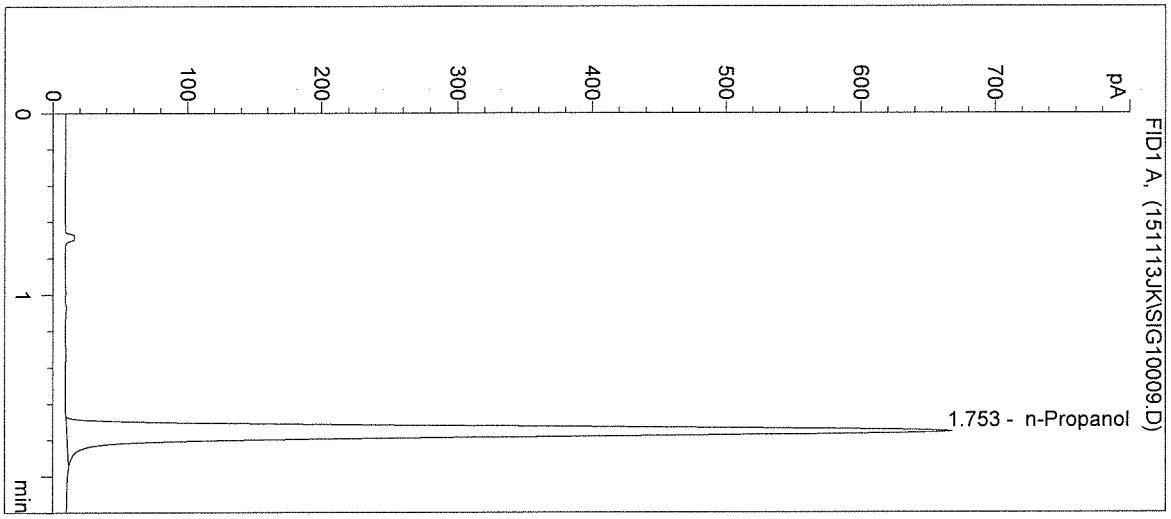
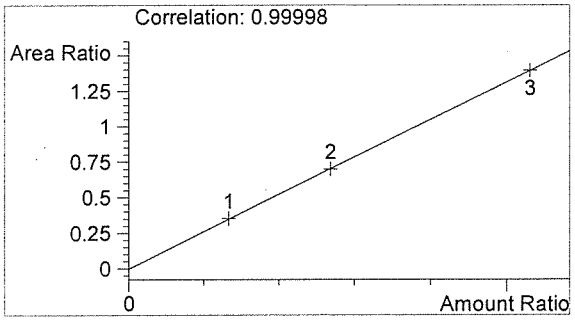
Inj. Date: 11/13/2015 11:49:27 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

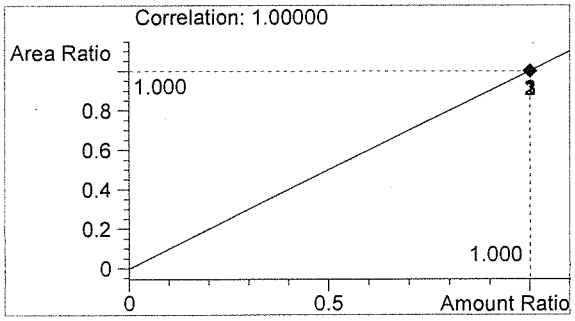
Sample Name: NEG CTRL
Operator: Justin Knoy
Location: Vial 9




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2572 | 1.753 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10009.D

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2203 Airport Way S Seattle, WA 98134

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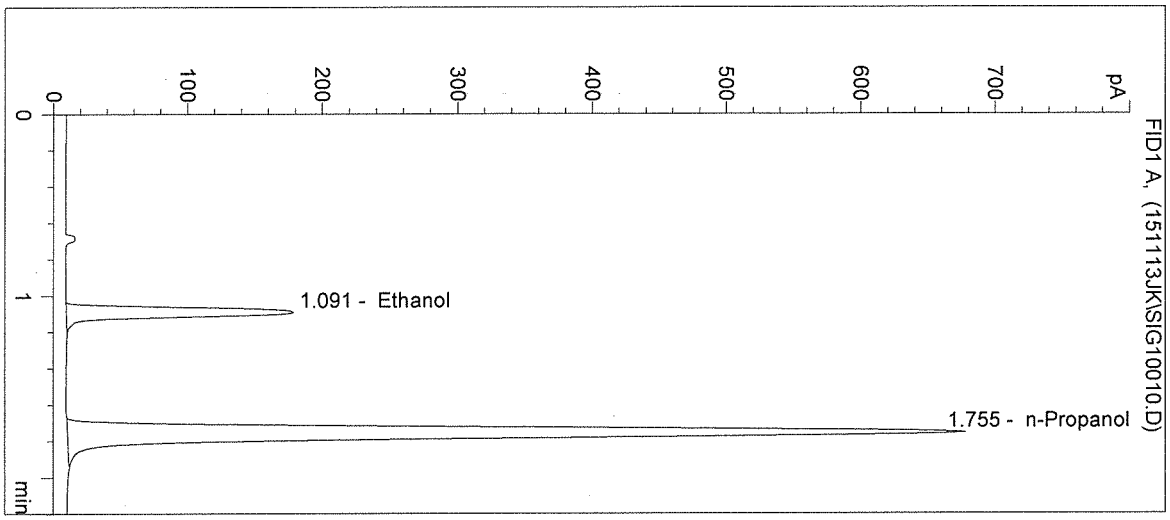
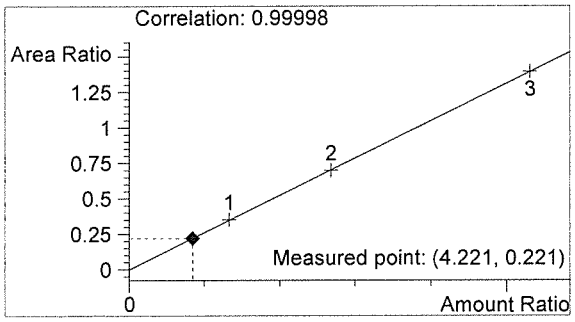
Inj. Date: 11/13/2015 11:52:39 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

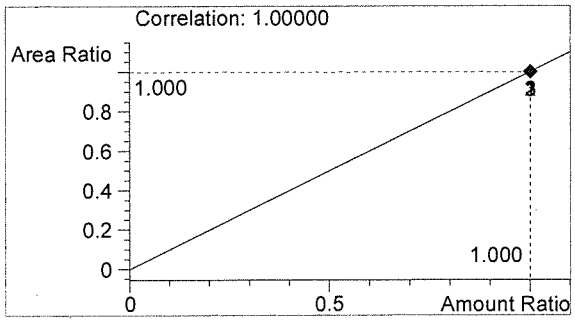
Sample Name: 15052-1
Operator: Justin Knoy
Location: Vial 10




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 578 | 1.091 |
| 2 | n-Propanol | 2614 | 1.755 |




Ethanol 0.051 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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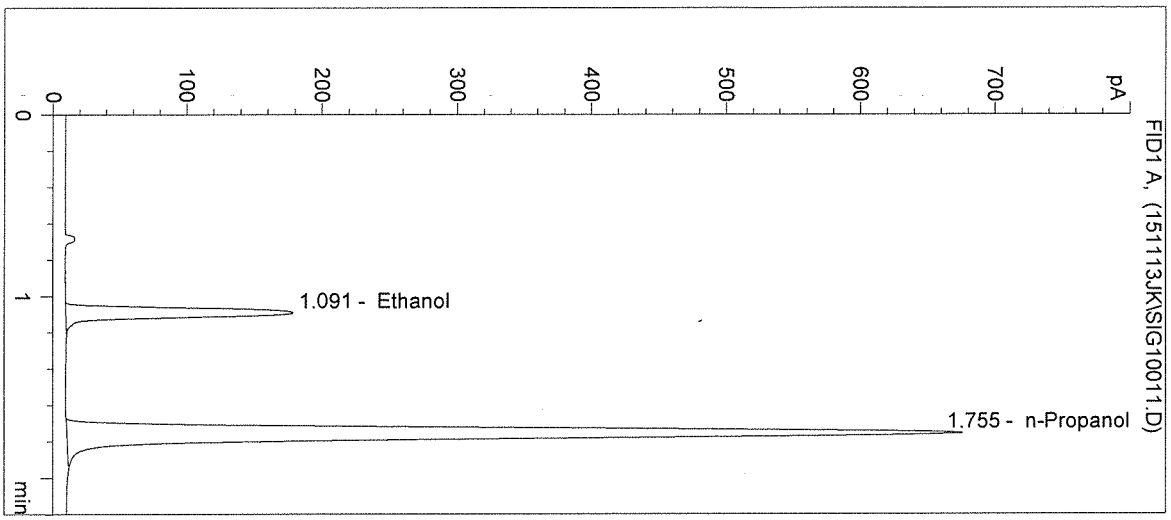
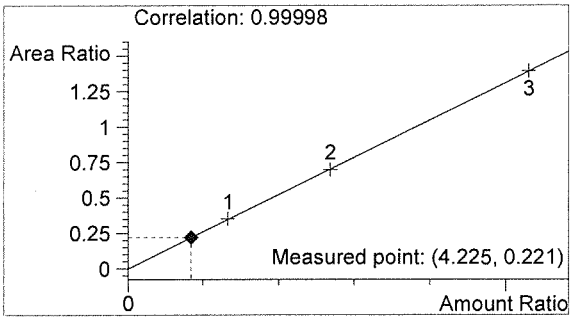
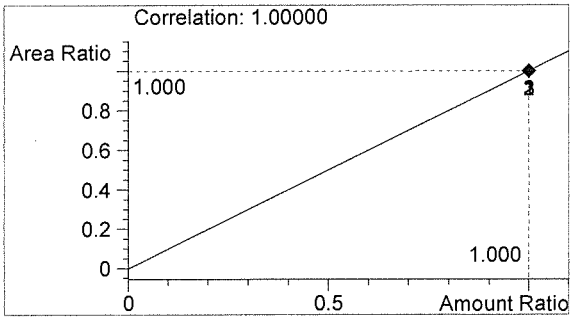
Inj. Date: 11/13/2015 11:55:51 AM  Sample Name: 15052-2
Instrument: HSGC#1  Operator: Justin Knoy
Column: DB-ALC1  Location: Vial 11
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 577 | 1.091 |
| 2 | n-Propanol | 2605 | 1.755 |




Ethanol 0.051 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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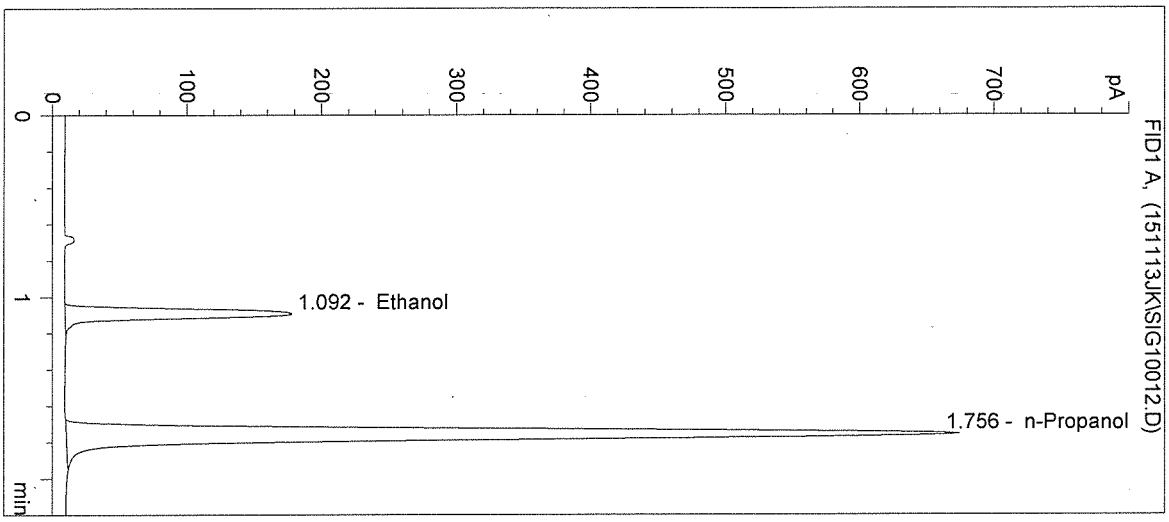
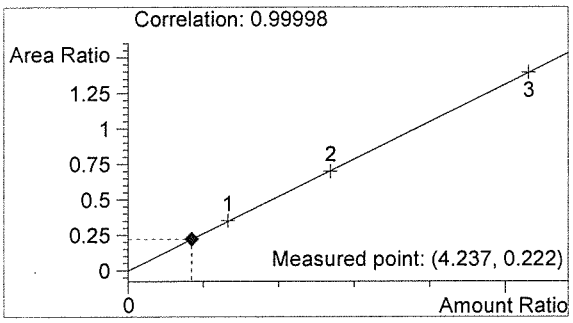
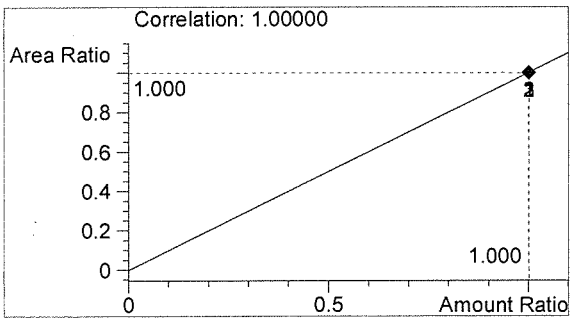
Inj. Date: 11/13/2015 11:59:04 AM  Sample Name: 15052-3
Instrument: HSGC#1  Operator: Justin Knoy
Column: DB-ALC1  Location: Vial 12
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 578 | 1.092 |
| 2 | n-Propanol | 2605 | 1.756 |




Ethanol 0.051 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10012.D  Page 1 of 1

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

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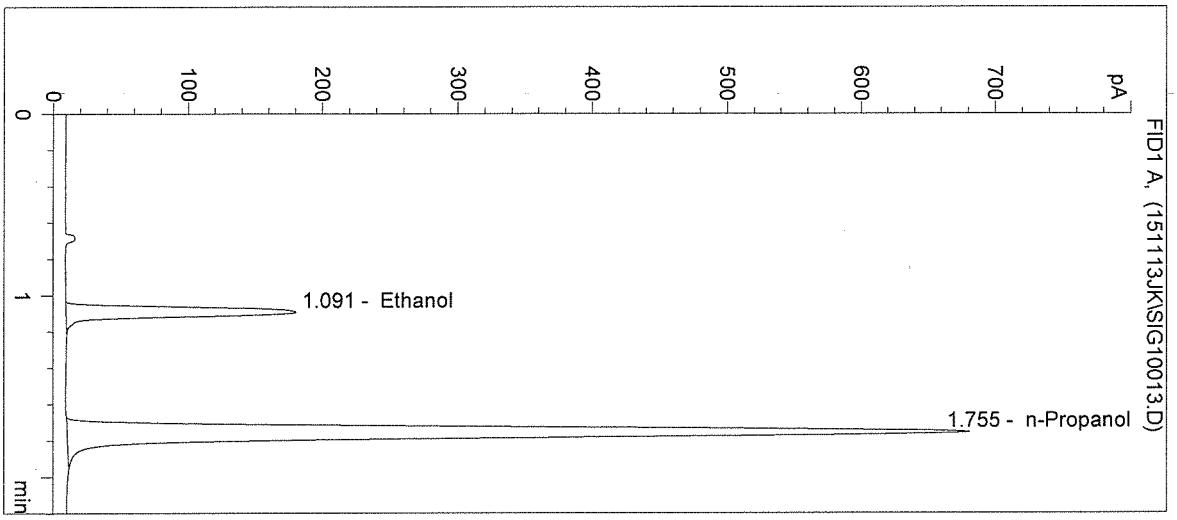
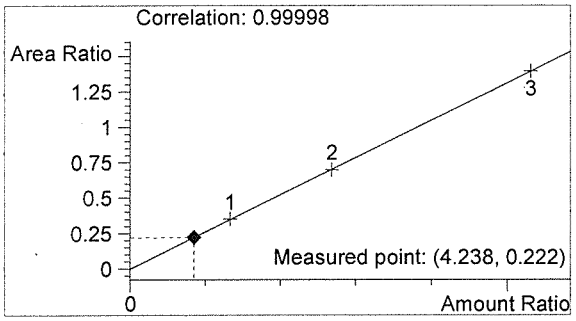
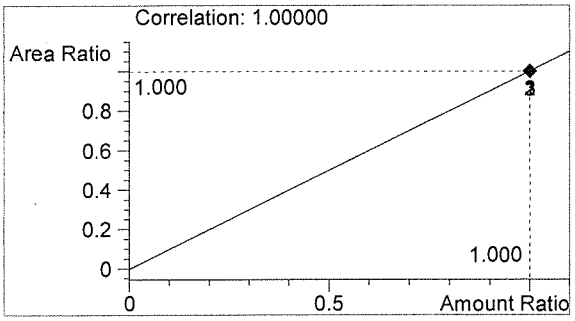
Inj. Date: 11/13/2015 12:02:17 PM  Sample Name: 15052-4
Instrument: HSGC#1  Operator: Justin Knoy
Column: DB-ALC1  Location: Vial 13
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 584 | 1.091 |
| 2 | n-Propanol | 2630 | 1.755 |




Ethanol  0.051 g/100mL




n-Propanol  0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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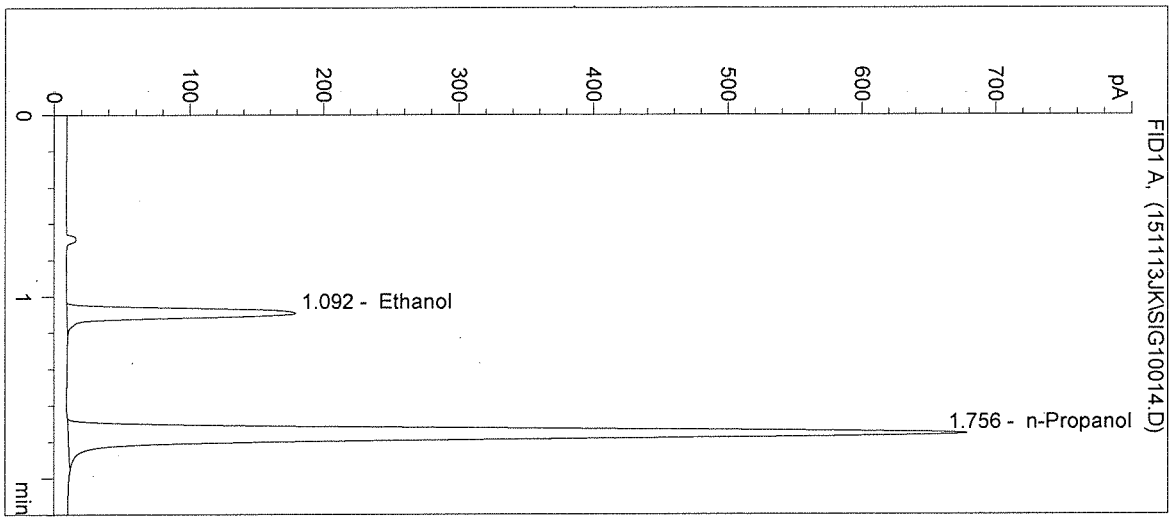
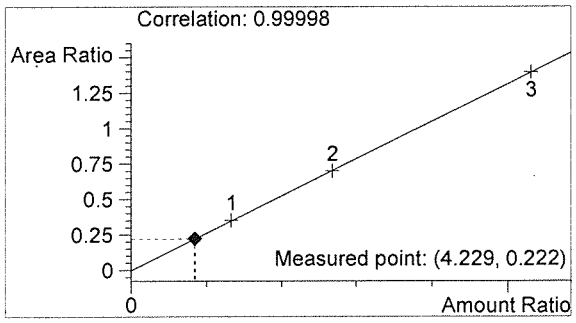
Inj. Date: 11/13/2015 12:05:31 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

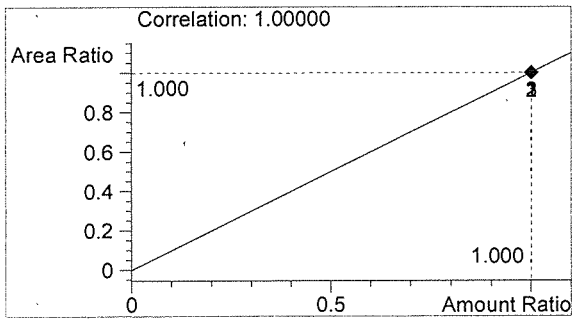
Sample Name: 15052-5
Operator: Justin Knoy
Location: Vial 14




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 582 | 1.092 |
| 2 | n-Propanol | 2625 | 1.756 |




Ethanol 0.051 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10014.D

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2203 Airport Way S Seattle, WA 98134

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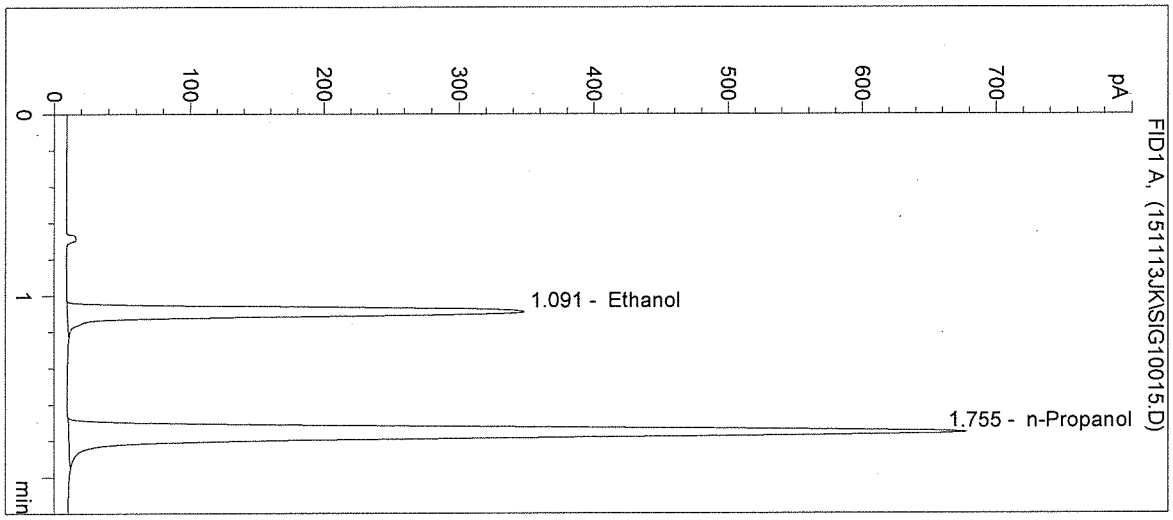
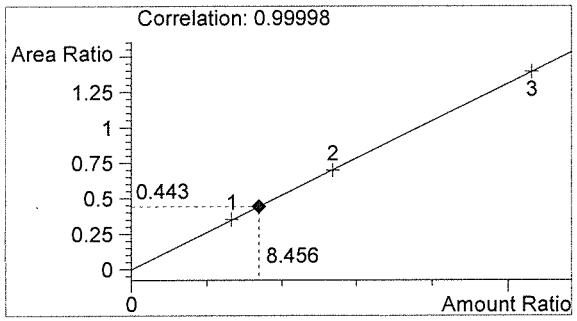
Inj. Date: 11/13/2015 12:08:44 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

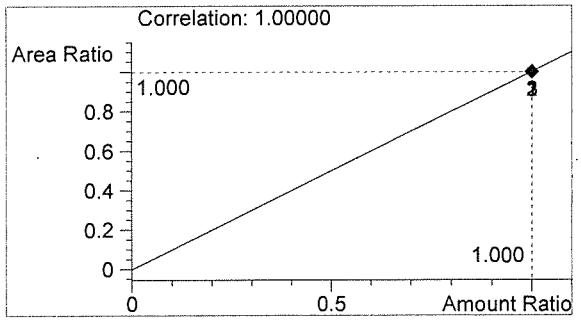
Sample Name: 0.10 CTRL
Operator: Justin Knoy
Location: Vial 15




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1157 | 1.091 |
| 2 | n-Propanol | 2611 | 1.755 |




Ethanol 0.101 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10015.D

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2203 Airport Way S Seattle, WA 98134

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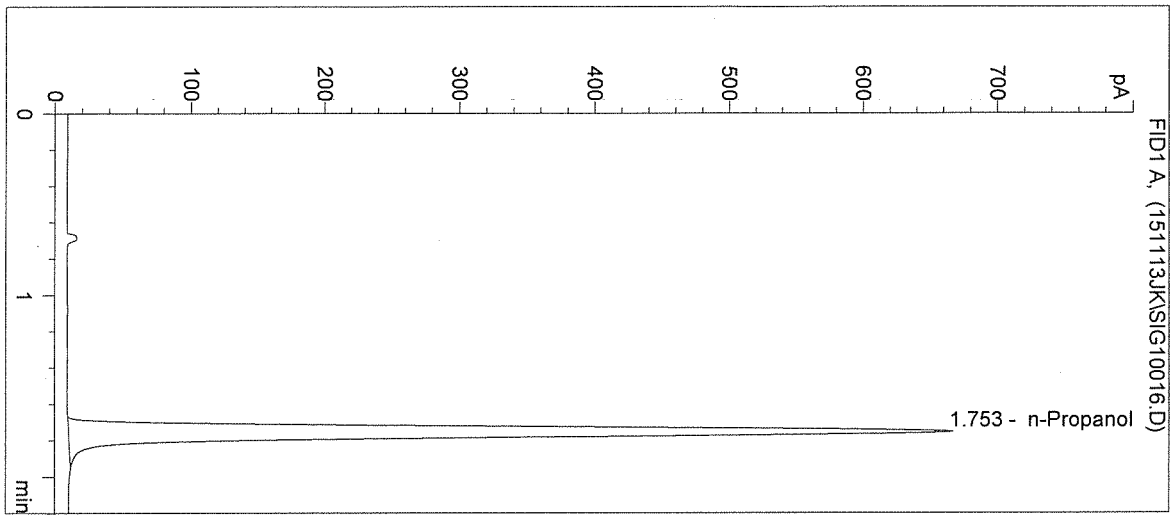
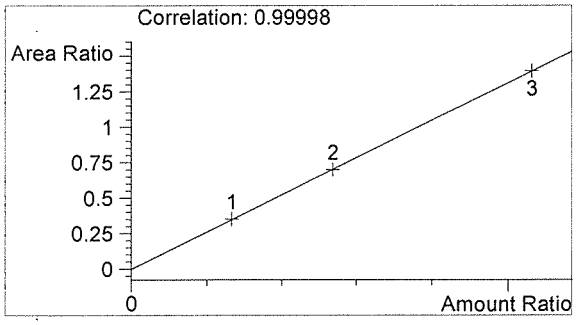
Inj. Date: 11/13/2015 12:11:57 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

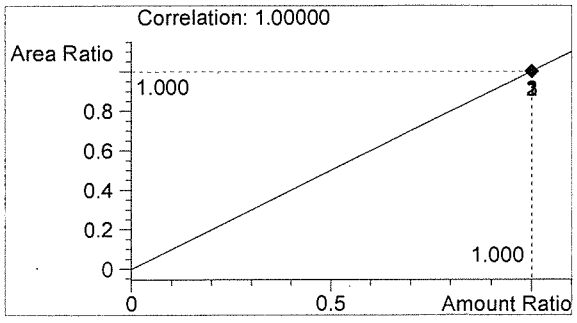
Sample Name: NEG CTRL
Operator: Justin Knoy
Location: Vial 16




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2574 | 1.753 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113JK\SIG10016.D

Sequence: C:\HPCHEM\1\SEQUENCE\JKQARUN1.S

Sequence Parameters:

| | |
|---|---|
| Operator: | Andrew Gingras |
| Data File Naming: | Prefix/Counter |
| Signal 1 Prefix: | SIG1 |
| Counter: | 0001 |
| Signal 2 Prefix: | SIG2 |
| Counter: | 0001 |
| Data Directory: | C:\HPCHEM\1\DATA\ |
| Data Subdirectory: | 151113AG |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
Ethanol Calibrator 1, E0615-01 - Exp. 12/02/2015
Ethanol Calibrator 2, E0615-02 - Exp. 12/02/2015
Ethanol Calibrator 3, E0615-03 - Exp. 12/02/2015
CTRL1 (0.04g/100mL), Lot # FN05011301 - Exp. 05/2018
CTRL2 (0.10g/100mL), Lot # FN08051301 - Exp. 10/2018
CTRL3 (0.20g/100mL), Lot # FN03211401 - Exp. 06/2019
Internal Standard Lot#P0915 - Exp. 12/18/2015

Calibration vials 1-9 filed with 15052.

Sequence Table (Front Injector):

Method and Injection Info Part:

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 1 | Vial 1 | BLANK | SIMALC1 | 1 | Sample | | |
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC1 | 1 | Calib | | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC1 | 1 | Calib | | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC1 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | 0.04 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | 0.20 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 15052-1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 15052-2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 15052-3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 15052-4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 15052-5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 15053-1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 15053-2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 15053-3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 15053-4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 15053-5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 15054-1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | 15054-2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 15054-3 | SIMALC1 | 1 | Sample | | |

15052
11/13/2015

Sequence: C:\HPCHEM\1\SEQUENCE\JKQARUN1.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 27 | Vial 27 | 15054-4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 15054-5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 15055-1 | SIMALC1 | 1 | Sample | | |
| 32 | Vial 32 | 15055-2 | SIMALC1 | 1 | Sample | | |
| 33 | Vial 33 | 15055-3 | SIMALC1 | 1 | Sample | | |
| 34 | Vial 34 | 15055-4 | SIMALC1 | 1 | Sample | | |
| 35 | Vial 35 | 15055-5 | SIMALC1 | 1 | Sample | | |
| 36 | Vial 36 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 38 | Vial 38 | 15056-1 | SIMALC1 | 1 | Sample | | |
| 39 | Vial 39 | 15056-2 | SIMALC1 | 1 | Sample | | |
| 40 | Vial 40 | 15056-3 | SIMALC1 | 1 | Sample | | |
| 41 | Vial 41 | 15056-4 | SIMALC1 | 1 | Sample | | |
| 42 | Vial 42 | 15056-5 | SIMALC1 | 1 | Sample | | |
| 43 | Vial 43 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 44 | Vial 44 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

Calibration Part:

| Line | Location | SampleName | Method | CalLev | Update RF | Update RT | Interval |
|---|---|---|---|---|---|---|---|
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC1 | 1 | Replace | Replace | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC1 | 2 | Replace | Replace | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC1 | 3 | Replace | Replace | |

Sequence Table (Back Injector):

No entries - empty table!

15052
11/12/2015

Method C:\HPCHEM\1\METHODS\SIMALC1.M

## Calibration Table

Calib. Data Modified : Friday, November 13, 2015 2:13:54 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Multiplier : 1.0000
Dilution : 1.0000
Sample Amount : 0.00000
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

Sample ISTD Information:

| ISTD # | ISTD Amount [g/100mL] | Name |
|---|---|---|
| 1 | 1.20000e-2 | n-Propanol |

Signal 1: FID1 A,

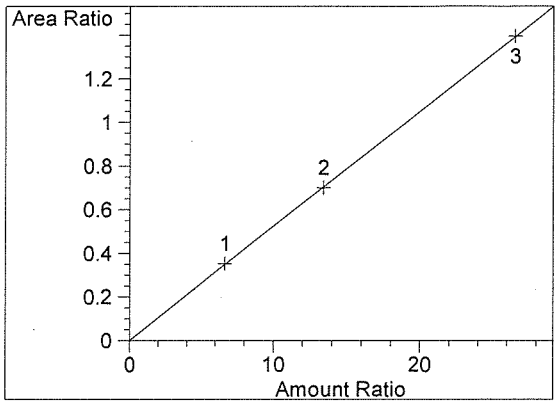
| RetTime [min] | Lvl Sig | | Amount [g/100mL] | Area | Amt/Area | Ref | Grp | Name |
|---|---|---|---|---|---|---|---|---|
| 1.092 | 1 | 1 | 7.97800e-2 | 931.52808 | 8.56442e-5 | | 1 | Ethanol |
| | | 2 | 1.60980e-1 | 1829.50879 | 8.79908e-5 | | | |
| | | 3 | 3.18440e-1 | 3647.98975 | 8.72919e-5 | | | |
| 1.755 | 1 | 1 | 1.20000e-2 | 2640.18164 | 4.54514e-6 | | I1 | n-Propanol |
| | | 2 | 1.20000e-2 | 2612.95264 | 4.59251e-6 | | | |
| | | 3 | 1.20000e-2 | 2612.21509 | 4.59380e-6 | | | |

## Peak Sum Table

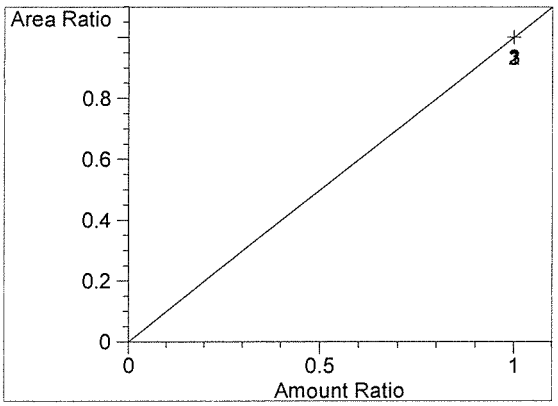
***No Entries in table***

15052
Smith 10/15

## Calibration Curves




Ethanol at exp. RT: 1.092
FID1 A,
Correlation: 0.99998
Residual Std. Dev.: 0.00440
Formula: y = mx + b
m: 5.25608e-2
b: 4.32853e-5
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 1.755
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

15052

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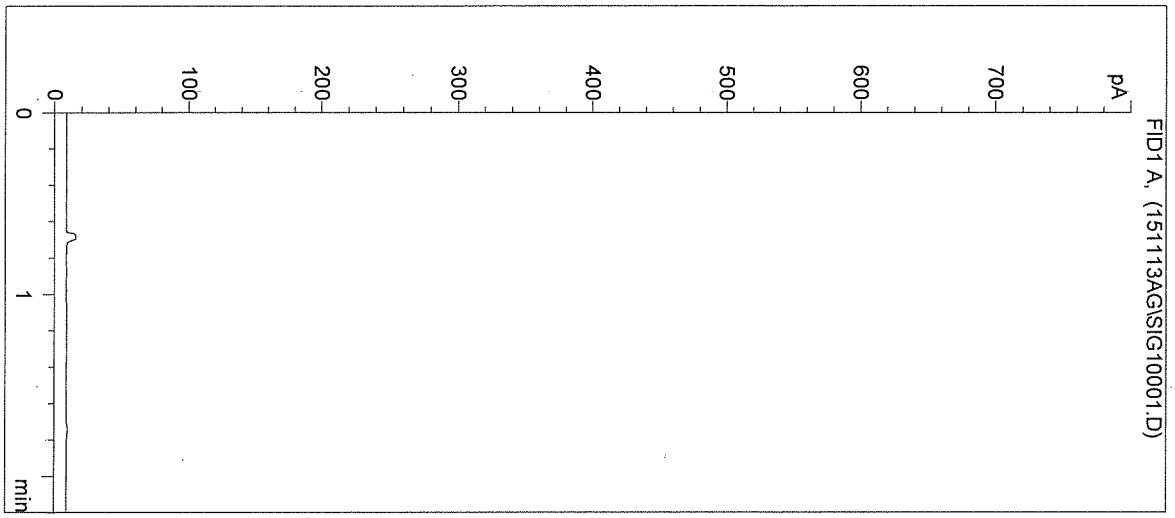
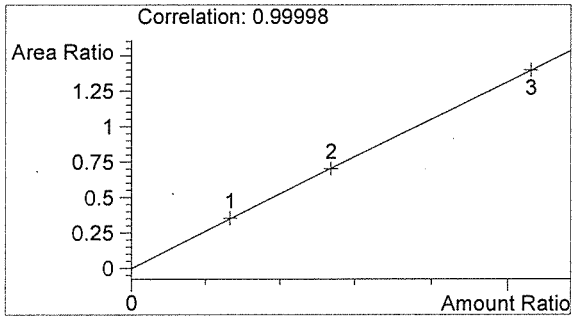
Inj. Date: 11/13/2015 2:01:48 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

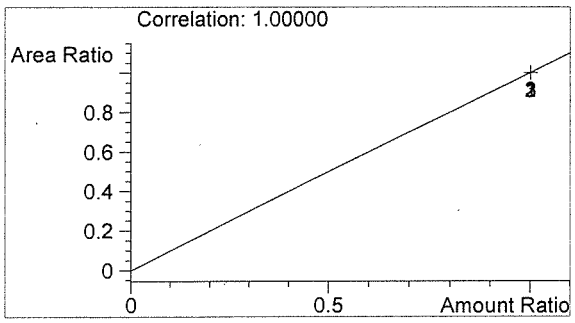
Sample Name: BLANK
Operator: Andrew Gingras
Location: Vial 1




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |




Ethanol 0.000 g/100mL




n-Propanol 0.000 g/100mL

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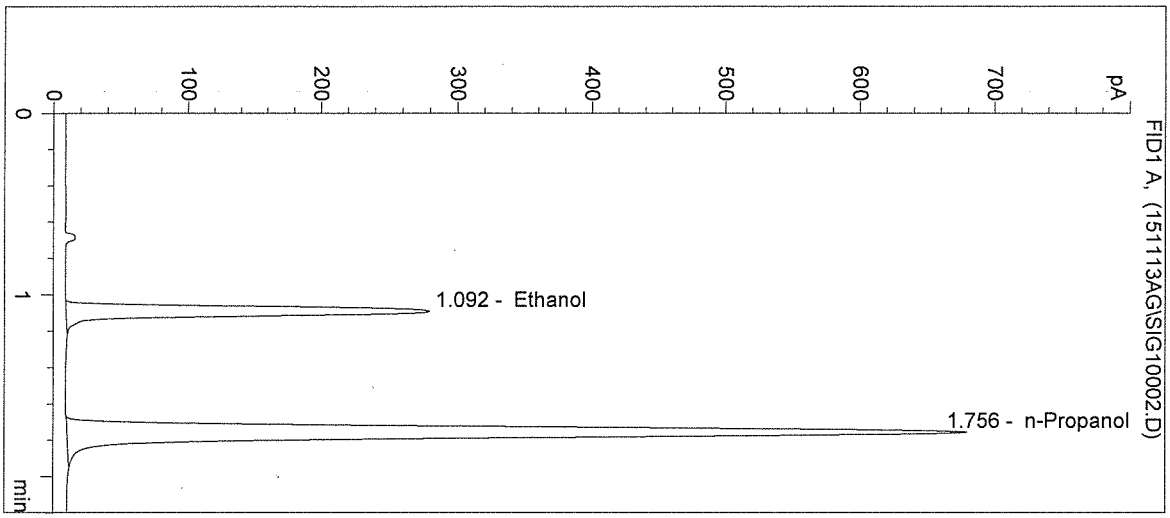
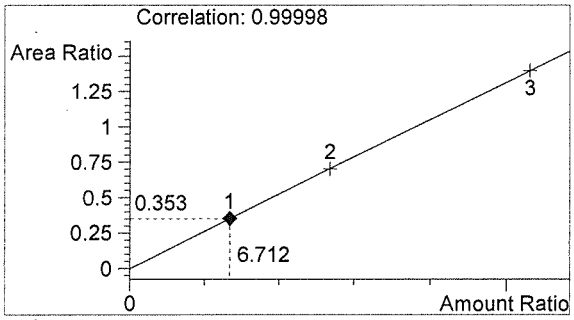
Inj. Date: 11/13/2015 2:05:07 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

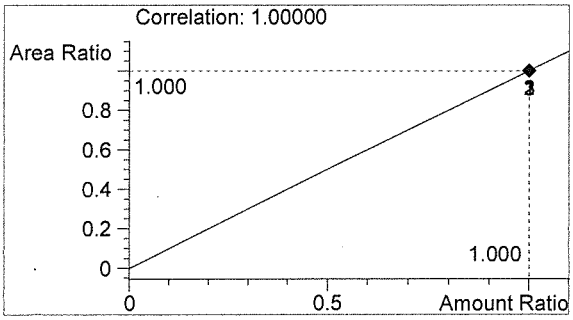
Sample Name: 0.079 CAL 1
Operator: Andrew Gingras
Location: Vial 2




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 932 | 1.092 |
| 2 | n-Propanol | 2640 | 1.756 |




Ethanol 0.081 g/100mL




n-Propanol 0.012 g/100mL

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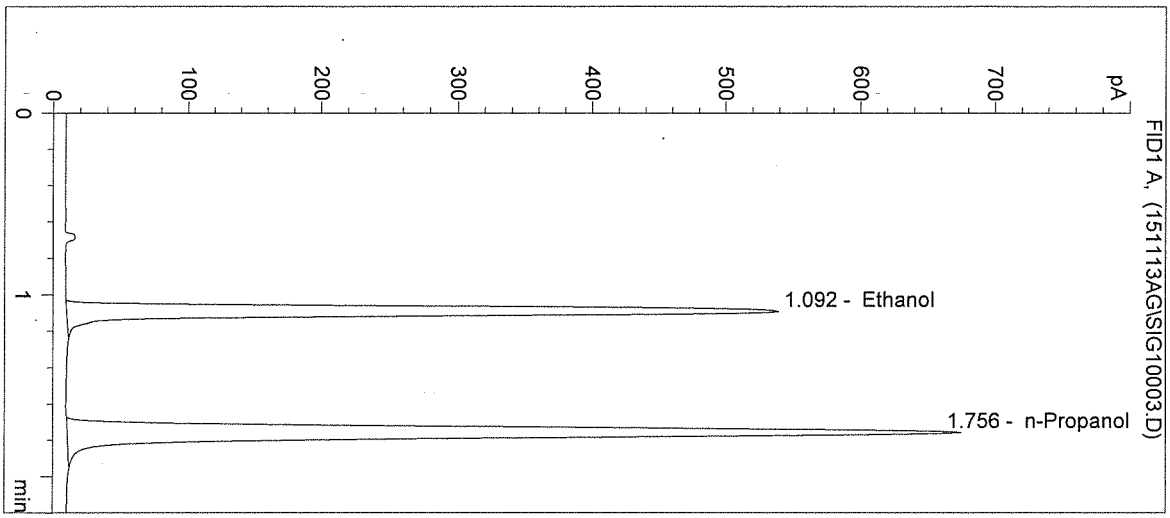
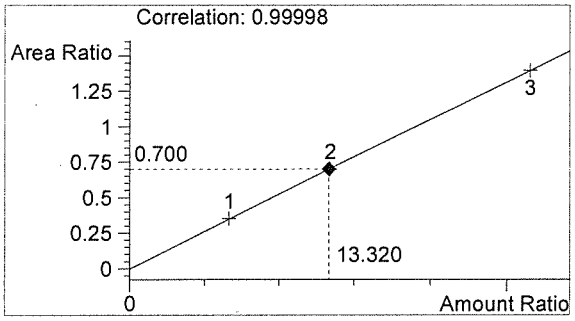
Inj. Date: 11/13/2015 2:08:24 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

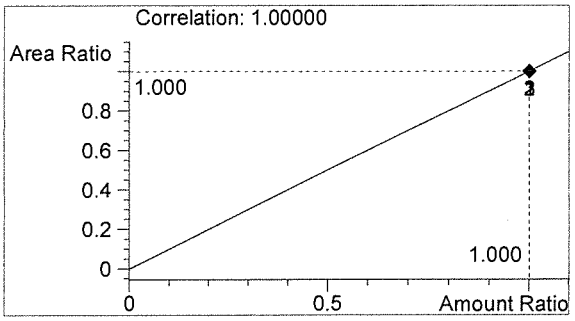
Sample Name: 0.158 CAL 2
Operator: Andrew Gingras
Location: Vial 3




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1830 | 1.092 |
| 2 | n-Propanol | 2613 | 1.756 |




Ethanol 0.160 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113AG\SIG10003.D

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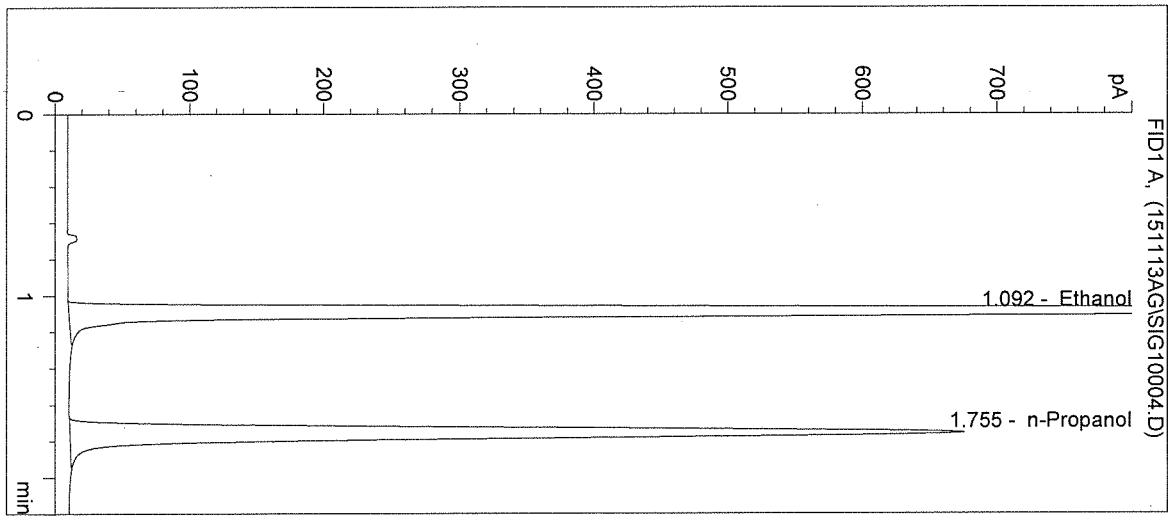
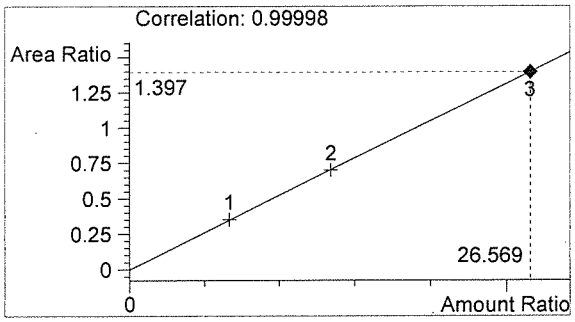
Inj. Date: 11/13/2015 2:11:41 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

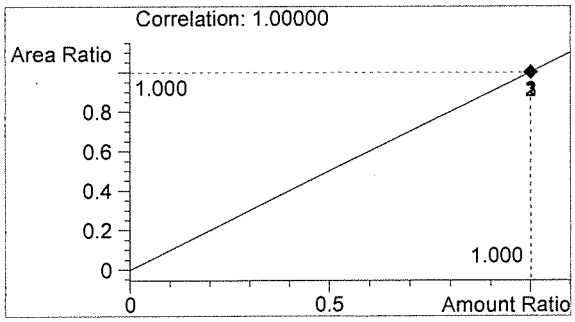
Sample Name: 0.316 CAL 3
Operator: Andrew Gingras
Location: Vial 4




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 3648 | 1.092 |
| 2 | n-Propanol | 2612 | 1.755 |




Ethanol 0.319 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113AG\SIG10004.D

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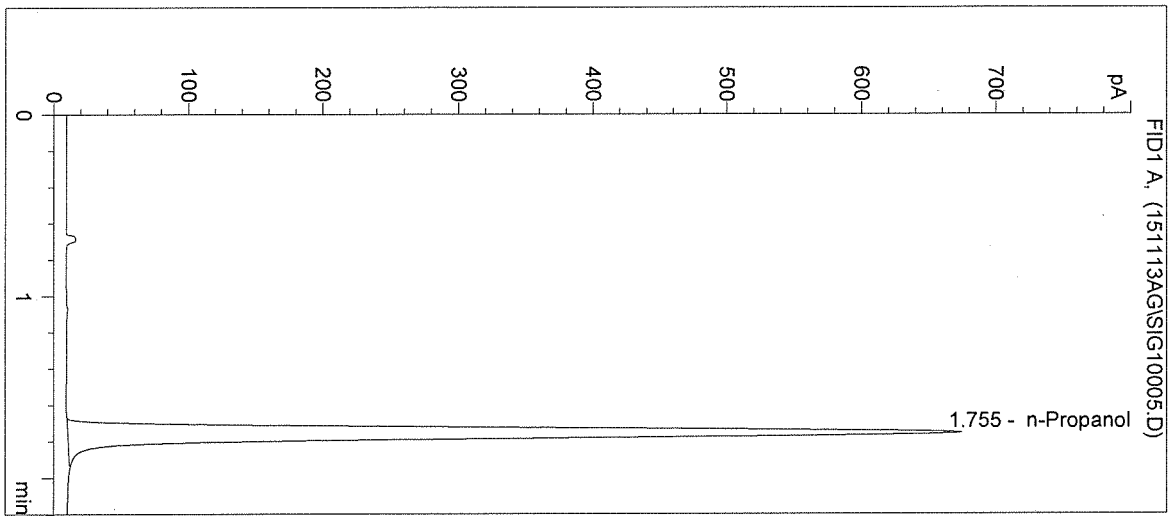
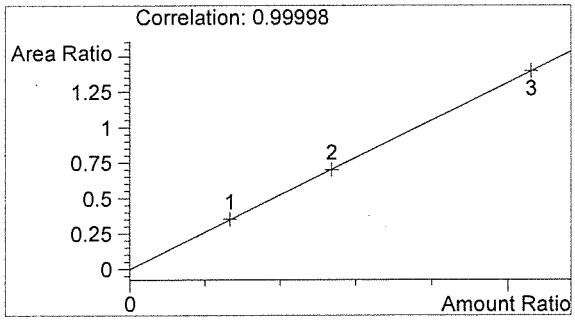
Inj. Date: 11/13/2015 2:14:55 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

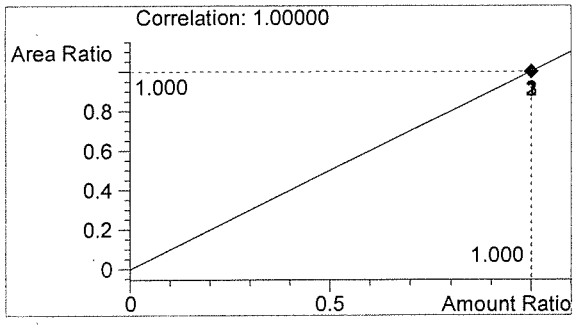
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 5




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2604 | 1.755 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113AG\SIG10005.D

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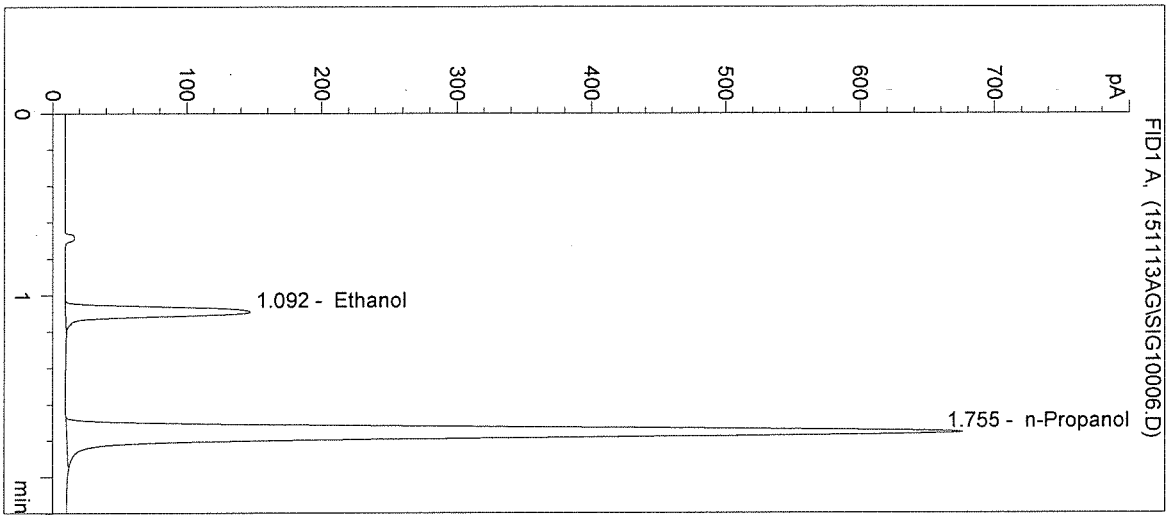
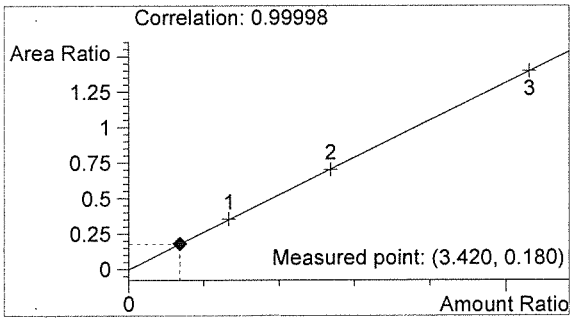
Inj. Date: 11/13/2015 2:18:08 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

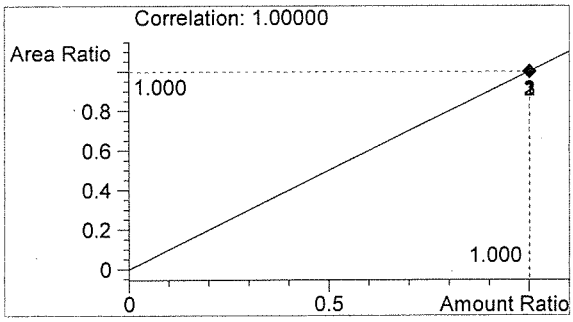
Sample Name: 0.04 CTRL
Operator: Andrew Gingras
Location: Vial 6




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 471 | 1.092 |
| 2 | n-Propanol | 2622 | 1.755 |




Ethanol 0.041 g/100mL




n-Propanol 0.012 g/100mL

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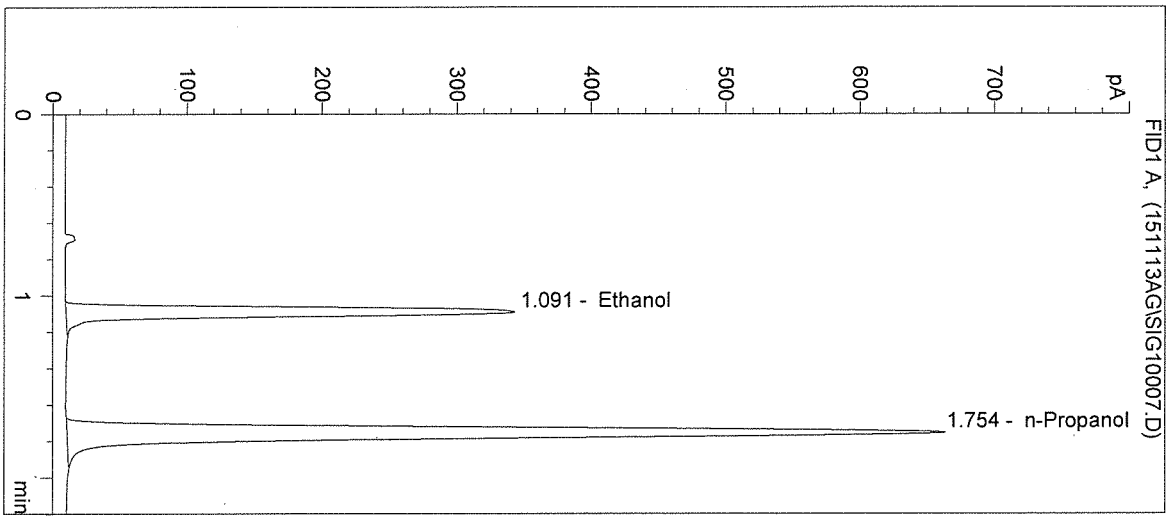
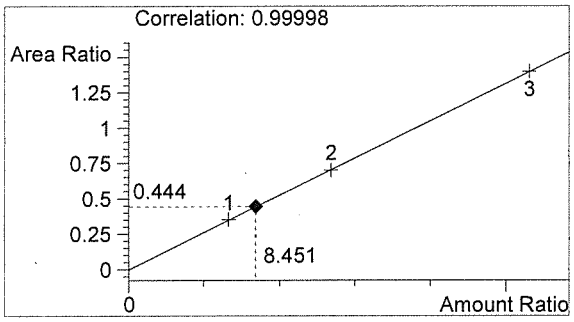
Inj. Date: 11/13/2015 2:21:21 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

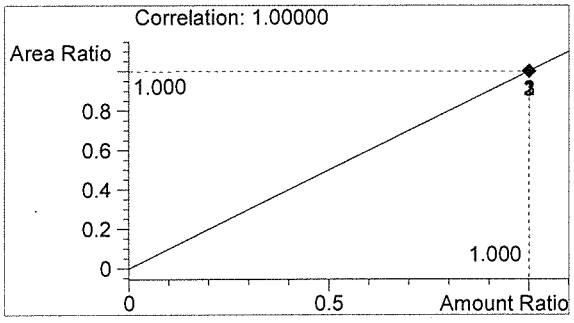
Sample Name: 0.10 CTRL
Operator: Andrew Gingras
Location: Vial 7




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1139 | 1.091 |
| 2 | n-Propanol | 2564 | 1.754 |




Ethanol 0.101 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113AG\SIG10007.D

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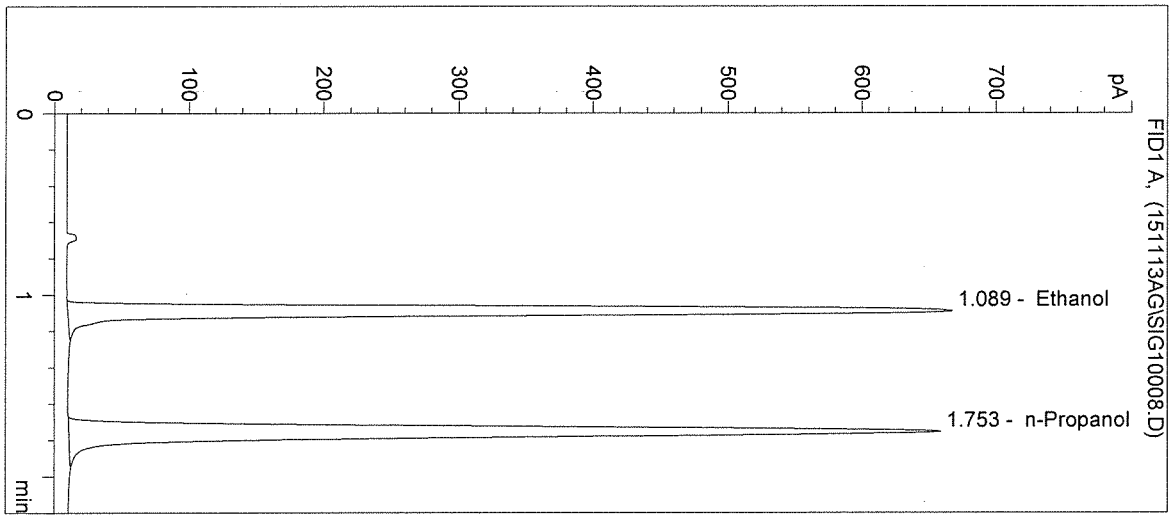
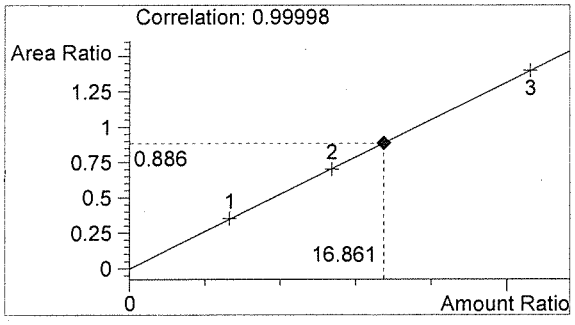
Inj. Date: 11/13/2015 2:24:34 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

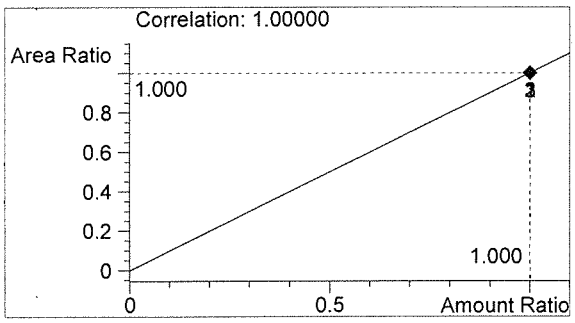
Sample Name: 0.20 CTRL
Operator: Andrew Gingras
Location: Vial 8




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2256 | 1.089 |
| 2 | n-Propanol | 2545 | 1.753 |




Ethanol 0.202 g/100mL




n-Propanol 0.012 g/100mL

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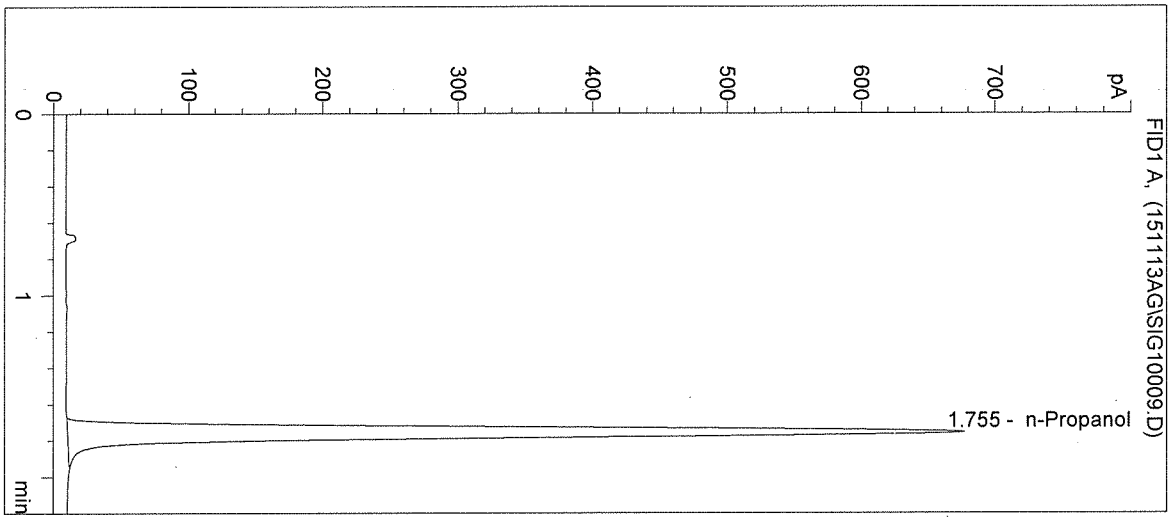
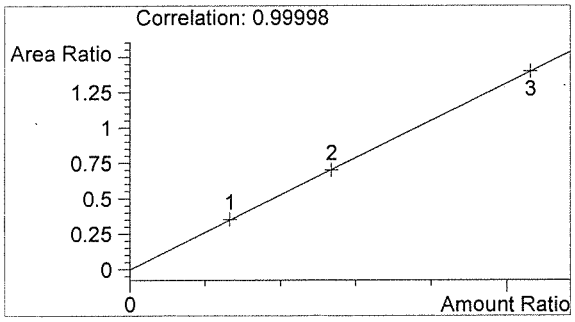
---

Inj. Date: 11/13/2015 2:27:48 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

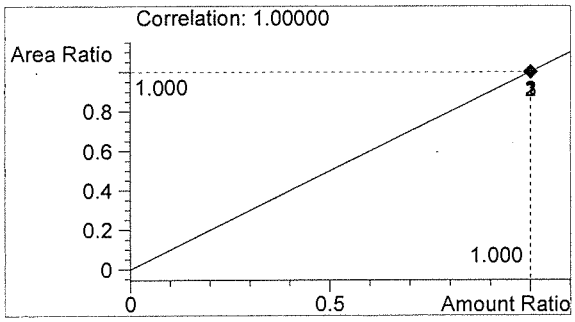
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 9




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2624 | 1.755 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113AG\SIG10009.D

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2203 Airport Way S Seattle, WA 98134

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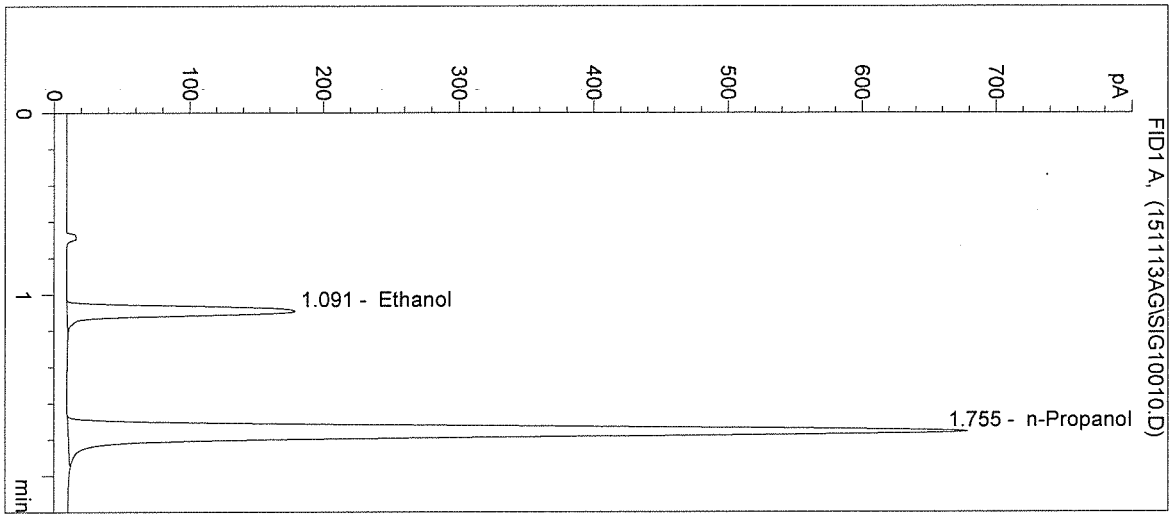
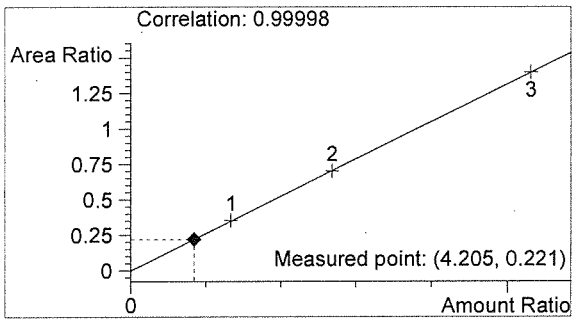
Inj. Date: 11/13/2015 2:31:01 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

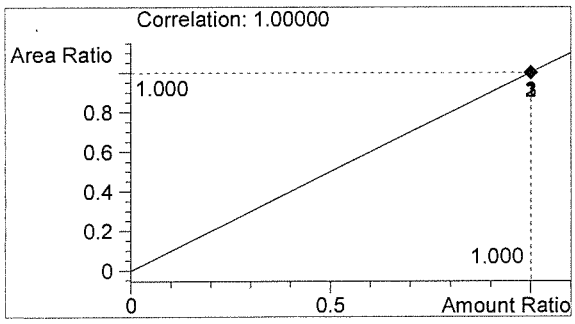
Sample Name: 15052-1
Operator: Andrew Gingras
Location: Vial 10




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 580 | 1.091 |
| 2 | n-Propanol | 2624 | 1.755 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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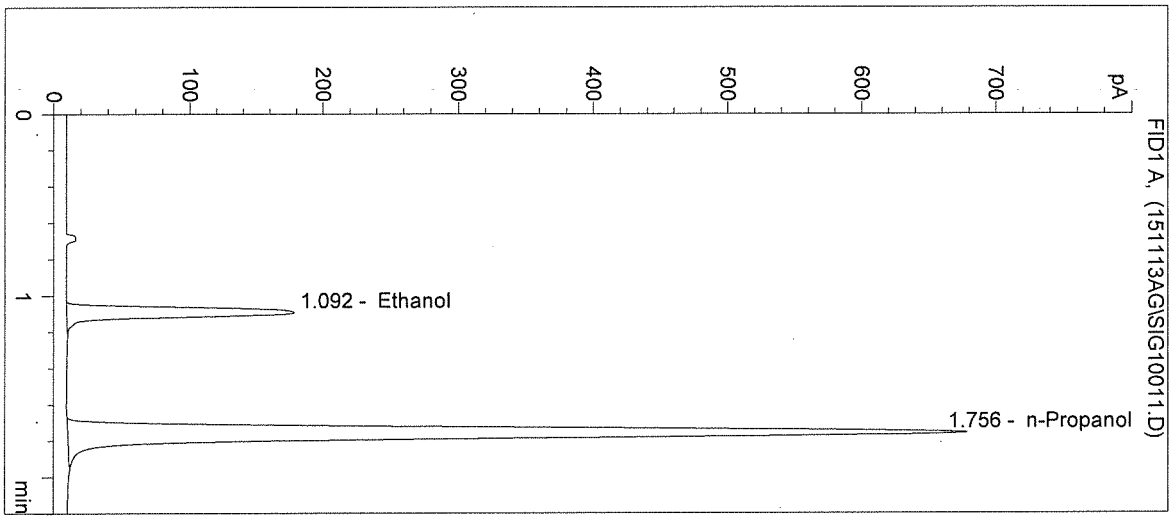
2203 Airport Way S Seattle, WA 98134

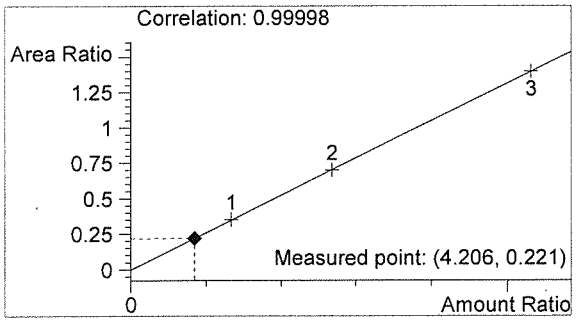
---

Inj. Date: 11/13/2015 2:34:14 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

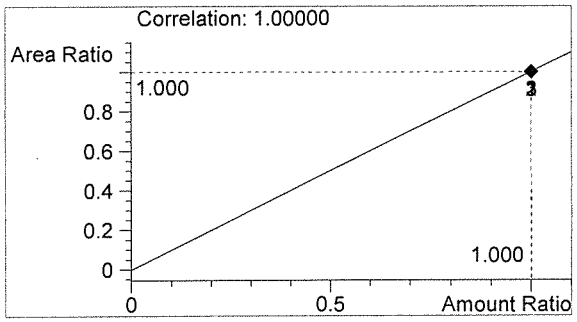
Sample Name: 15052-2
Operator: Andrew Gingras
Location: Vial 11




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 581 | 1.092 |
| 2 | n-Propanol | 2629 | 1.756 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

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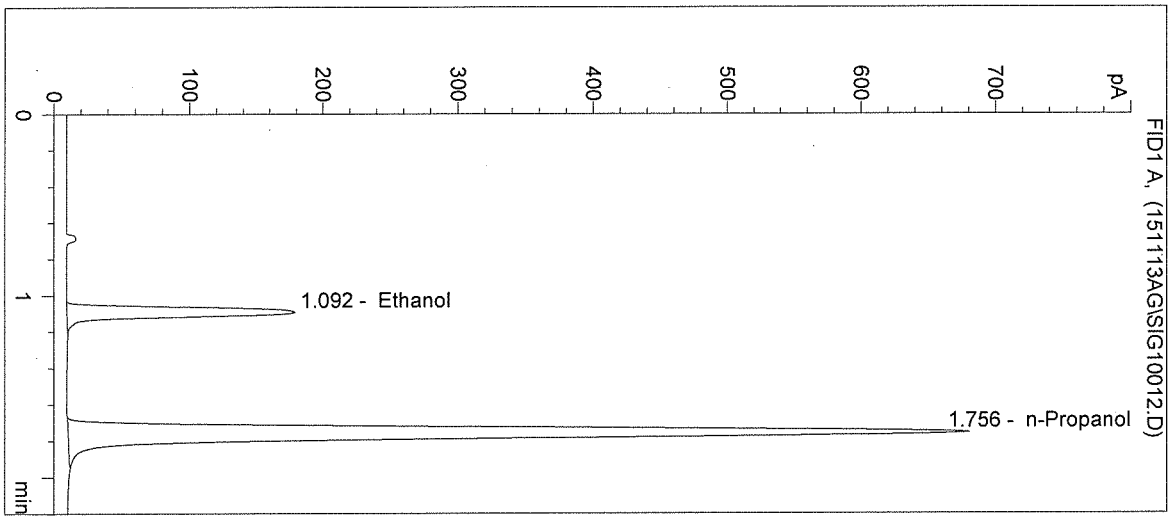
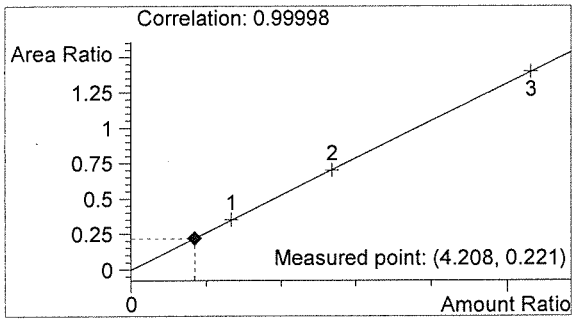
Inj. Date: 11/13/2015 2:37:27 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

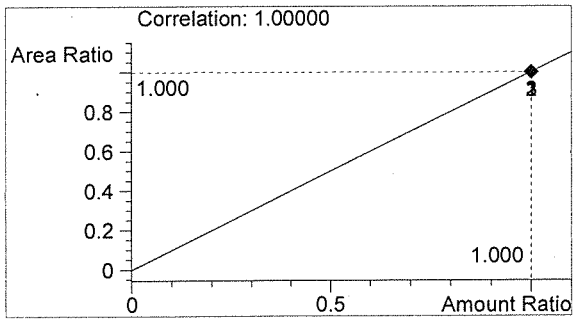
Sample Name: 15052-3
Operator: Andrew Gingras
Location: Vial 12




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 583 | 1.092 |
| 2 | n-Propanol | 2637 | 1.756 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151113AG\SIG10012.D

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2203 Airport Way S Seattle, WA 98134

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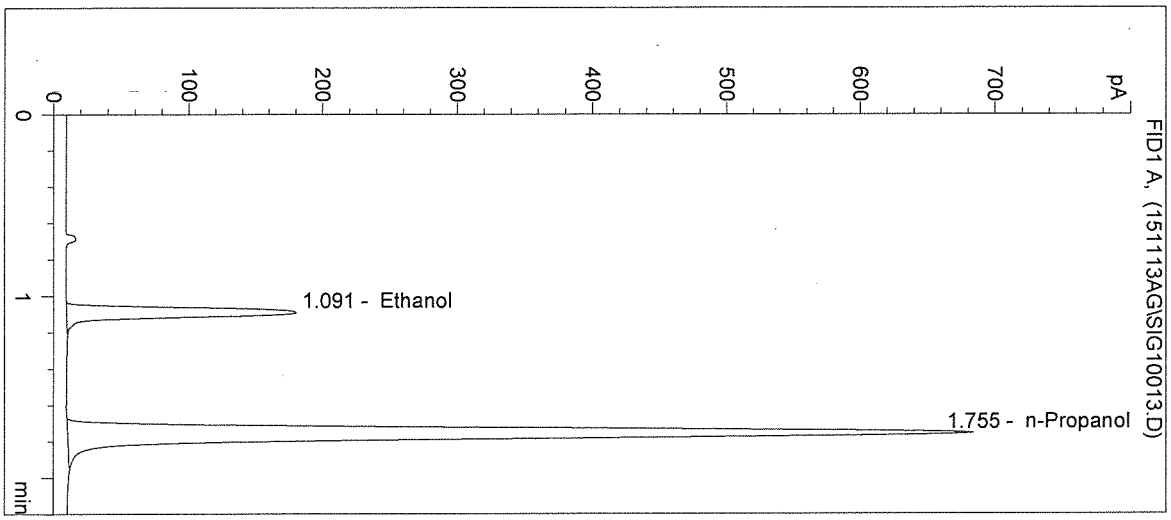
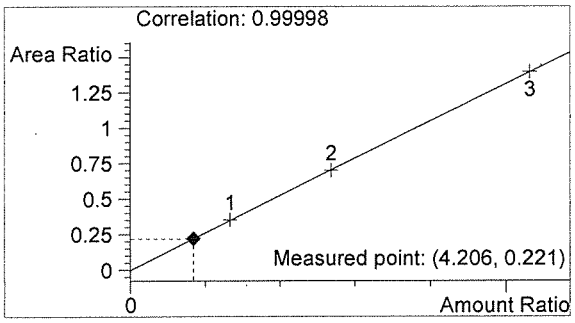
Inj. Date: 11/13/2015 2:40:41 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

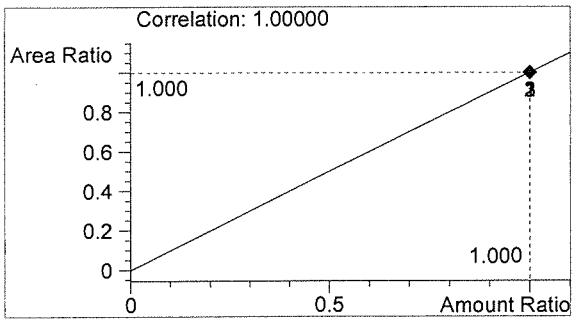
Sample Name: 15052-4
Operator: Andrew Gingras
Location: Vial 13




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 585 | 1.091 |
| 2 | n-Propanol | 2644 | 1.755 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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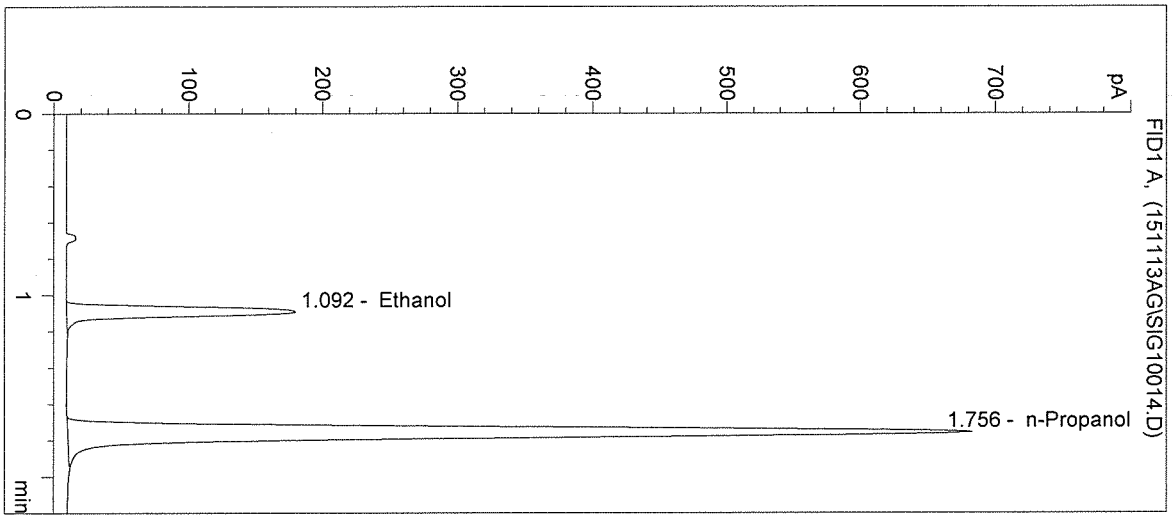
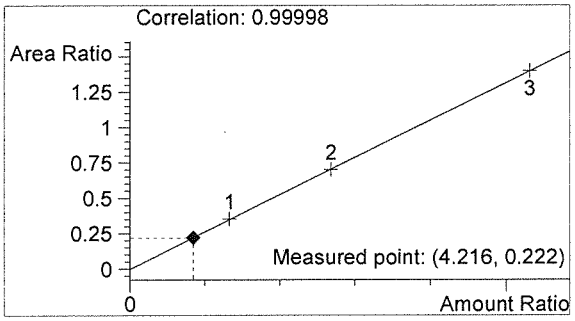
Inj. Date: 11/13/2015 2:43:56 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

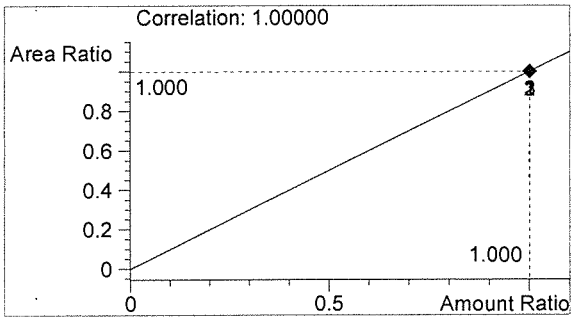
Sample Name: 15052-5
Operator: Andrew Gingras
Location: Vial 14




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 586 | 1.092 |
| 2 | n-Propanol | 2642 | 1.756 |




Ethanol 0.051 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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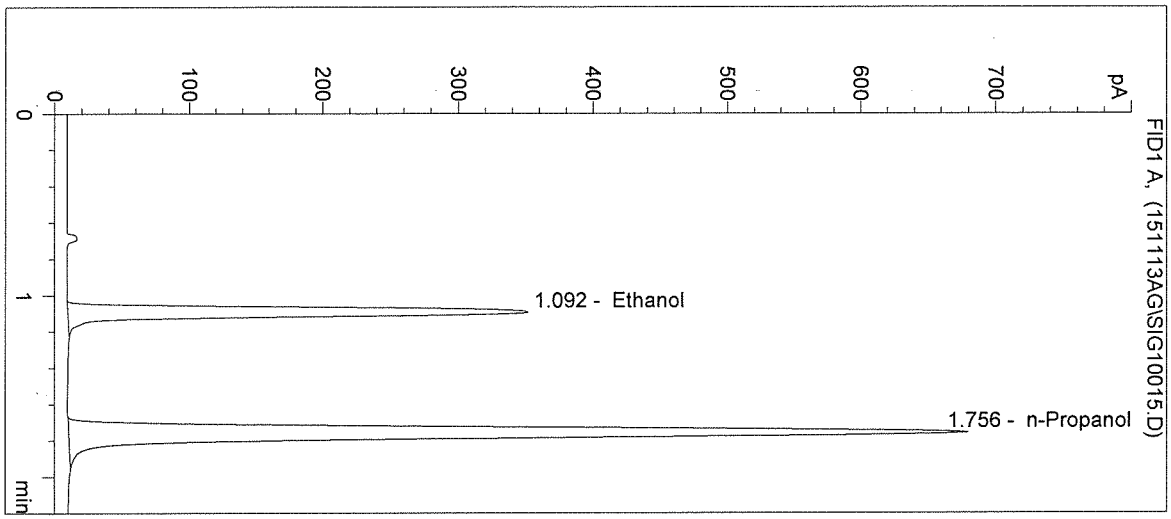
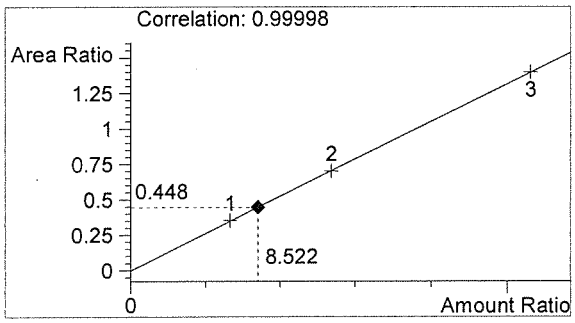
Inj. Date: 11/13/2015 2:47:07 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

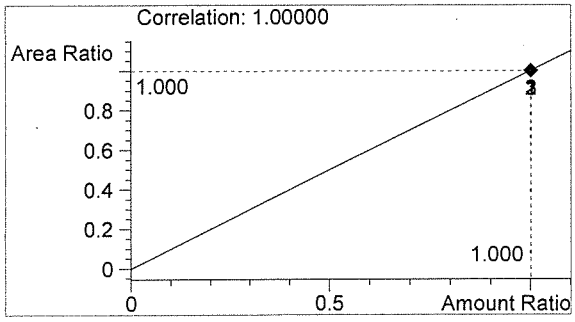
Sample Name: 0.10 CTRL
Operator: Andrew Gingras
Location: Vial 15




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1178 | 1.092 |
| 2 | n-Propanol | 2630 | 1.756 |




Ethanol 0.102 g/100mL




n-Propanol 0.012 g/100mL

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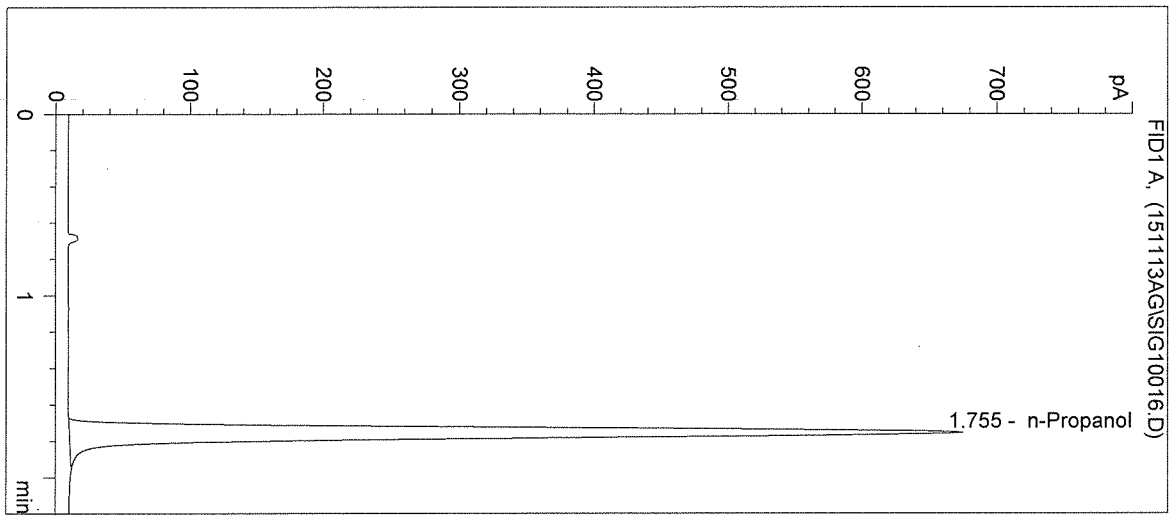
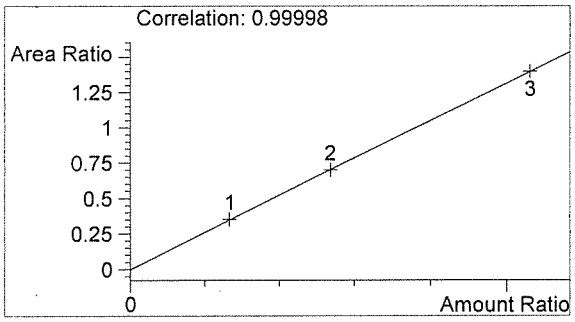
Inj. Date: 11/13/2015 2:50:20 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

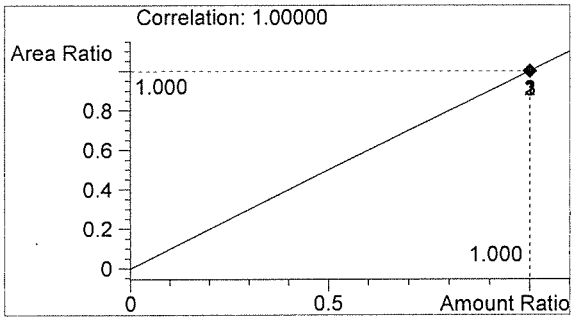
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 16




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2612 | 1.755 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

---

Sequence: C:\HPCHEM\1\SEQUENCE\CMQAP.S

Sequence Parameters:

| | |
|---|---|
| Operator: | Christie Mitchell-Mata |
| Data File Naming: | Prefix/Counter |
| Signal 1 Prefix: | SIG1 |
| Counter: | 0001 |
| Signal 2 Prefix: | SIG2 |
| Counter: | 0001 |
| Data Directory: | C:\HPCHEM\1\DATA\ |
| Data Subdirectory: | 151118CM |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
Cal 1 (0.079 g/100mL) - Lot#E1015-01 - Exp 04/29/16
Cal 2 (0.158 g/100mL) - Lot#E1015-02 - Exp 04/29/16
Cal 3 (0.316 g/100mL) - Lot#E1015-03 - Exp 04/29/16
CTRL 1 (0.04 g/100mL) - Lot#FN05011301 - Exp 05/2018
CTRL 2 (0.10 g/100mL) - Lot#FN08051301 - Exp 10/2018
CTRL 3 (0.20 g/100mL) - Lot#FN03211401 - Exp 06/2019
n-Propanol ISTD - Lot# P0915 - Exp 12/18/15

Calibration vials 1-9 filed with 15052.

Sequence Table (Front Injector):

Method and Injection Info Part:

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 1 | Vial 1 | BLANK | SIMALC1 | 1 | Sample | | |
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC1 | 1 | Calib | | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC1 | 1 | Calib | | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC1 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | 0.04 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | 0.20 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 15052-1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 15052-2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 15052-3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 15052-4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 15052-5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 15053-1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 15053-2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 15053-3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 15053-4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 15053-5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 15054-1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | 15054-2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 15054-3 | SIMALC1 | 1 | Sample | | |

15052
Initials

Sequence: C:\HPCHEM\1\SEQUENCE\CMQAP.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 27 | Vial 27 | 15054-4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 15054-5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 15055-1 | SIMALC1 | 1 | Sample | | |
| 32 | Vial 32 | 15055-2 | SIMALC1 | 1 | Sample | | |
| 33 | Vial 33 | 15055-3 | SIMALC1 | 1 | Sample | | |
| 34 | Vial 34 | 15055-4 | SIMALC1 | 1 | Sample | | |
| 35 | Vial 35 | 15055-5 | SIMALC1 | 1 | Sample | | |
| 36 | Vial 36 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 38 | Vial 38 | 15056-1 | SIMALC1 | 1 | Sample | | |
| 39 | Vial 39 | 15056-2 | SIMALC1 | 1 | Sample | | |
| 40 | Vial 40 | 15056-3 | SIMALC1 | 1 | Sample | | |
| 41 | Vial 41 | 15056-4 | SIMALC1 | 1 | Sample | | |
| 42 | Vial 42 | 15056-5 | SIMALC1 | 1 | Sample | | |
| 43 | Vial 43 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 44 | Vial 44 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

Calibration Part:

| Line | Location | SampleName | Method | CalLev | Update RF | Update RT | Interval |
|---|---|---|---|---|---|---|---|
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC1 | 1 | Replace | Replace | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC1 | 2 | Replace | Replace | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC1 | 3 | Replace | Replace | |

Sequence Table (Back Injector):

No entries - empty table!

15052
Initials

11/18/15
15111847

Method C:\HPCHEM\1\METHODS\SIMALC1.M

## Calibration Table

Calib. Data Modified : Wednesday, November 18, 2015 8:03:28 AM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Multiplier : 1.0000
Dilution : 1.0000
Sample Amount : 0.00000
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

Sample ISTD Information:

| ISTD # | ISTD Amount [g/100mL] | Name |
|---|---|---|
| 1 | 1.20000e-2 | n-Propanol |

Signal 1: FID1 A,

| RetTime [min] | Sig | Lvl | Amount [g/100mL] | Area | Amt/Area | Ref | Grp | Name |
|---|---|---|---|---|---|---|---|---|
| 1.091 | 1 | 1 | 7.96600e-2 | 902.57788 | 8.82583e-5 | | 1 | Ethanol |
| | | 2 | 1.61370e-1 | 1938.90002 | 8.32276e-5 | | | |
| | | 3 | 3.22930e-1 | 3567.88892 | 9.05101e-5 | | | |
| 1.754 | 1 | 1 | 1.20000e-2 | 2546.05176 | 4.71318e-6 | | I1 | n-Propanol |
| | | 2 | 1.20000e-2 | 2628.15601 | 4.56594e-6 | | | |
| | | 3 | 1.20000e-2 | 2512.61621 | 4.77590e-6 | | | |

15052
Jan 2016

## Peak Sum Table

***No Entries in table***

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Calibration Curves

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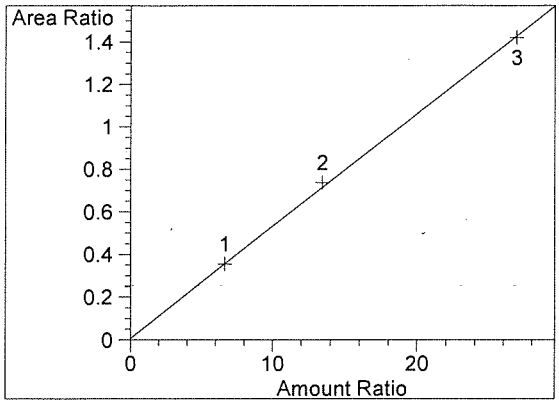
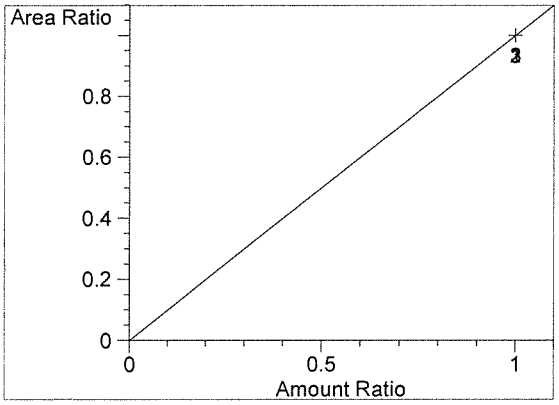



Ethanol at exp. RT: 1.091
FID1 A,
Correlation: 0.99975
Residual Std. Dev.: 0.01654
Formula: y = mx + b
m: 5.28326e-2
b: 7.31851e-3
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 1.754
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

15052
Jm12/18/15

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

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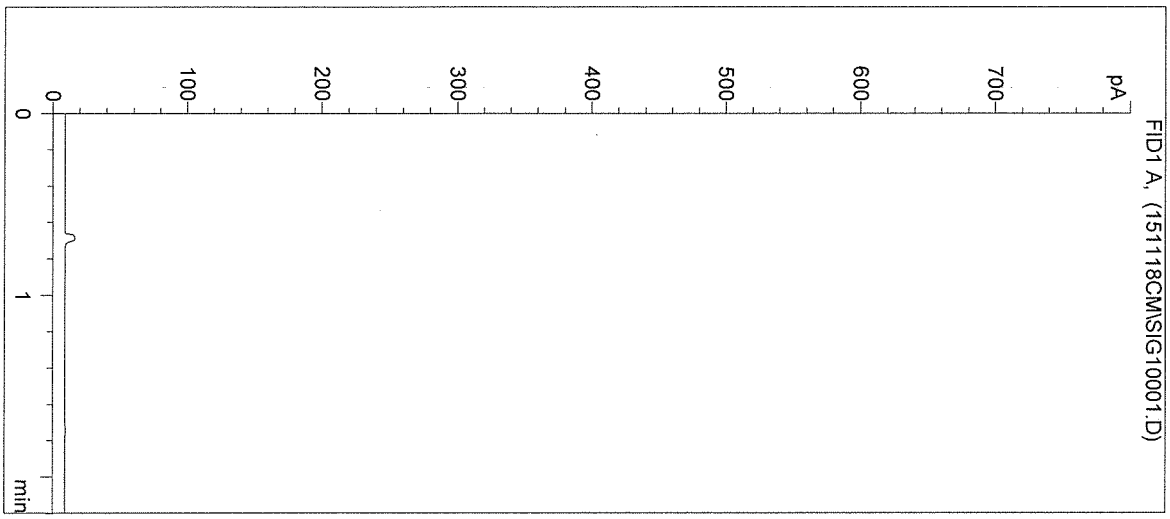
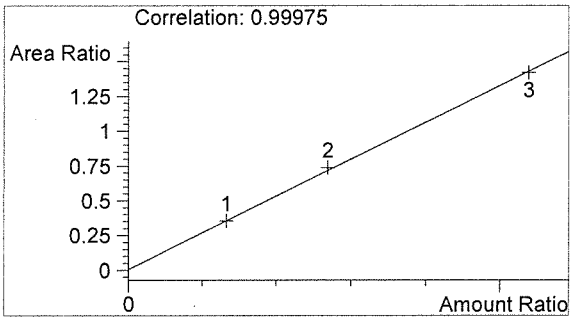
Inj. Date: 11/18/2015 7:51:22 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

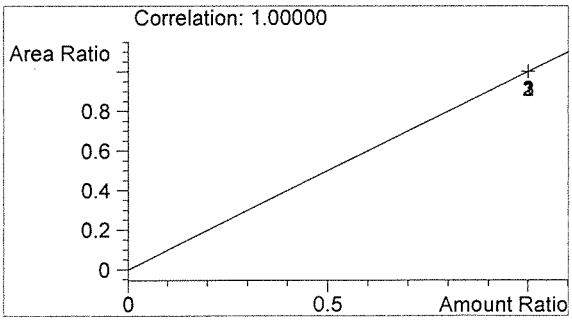
Sample Name: BLANK
Operator: Christie Mitchell-Mata
Location: Vial 1




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |




Ethanol 0.000 g/100mL




n-Propanol 0.000 g/100mL

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2203 Airport Way S Seattle, WA 98134

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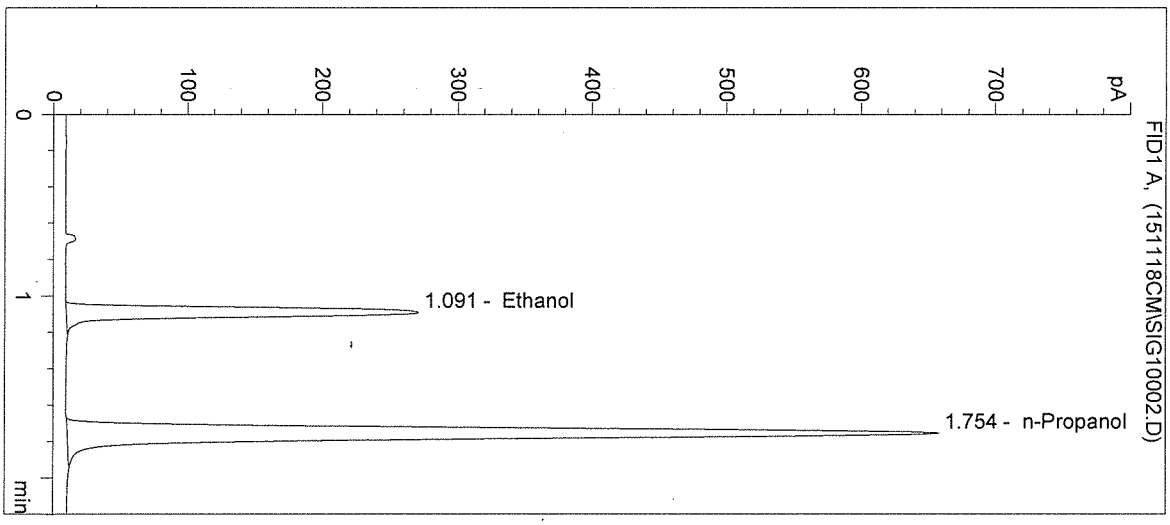
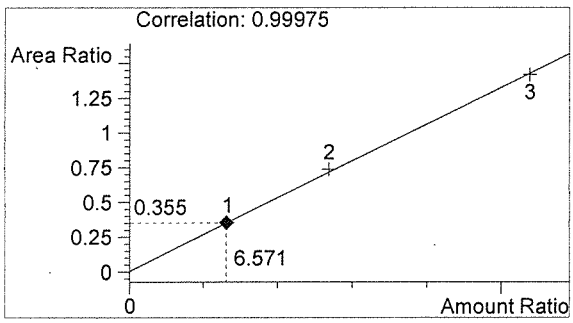
Inj. Date: 11/18/2015 7:54:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

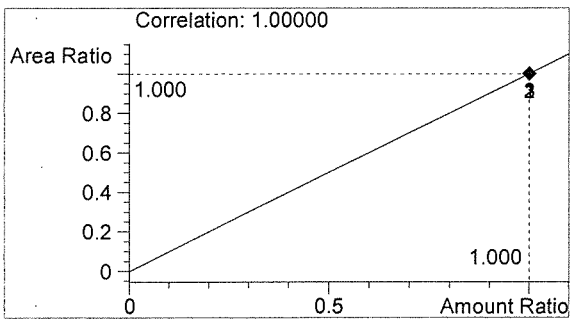
Sample Name: 0.079 CAL 1
Operator: Christie Mitchell-Mata
Location: Vial 2




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 903 | 1.091 |
| 2 | n-Propanol | 2546 | 1.754 |




Ethanol 0.079 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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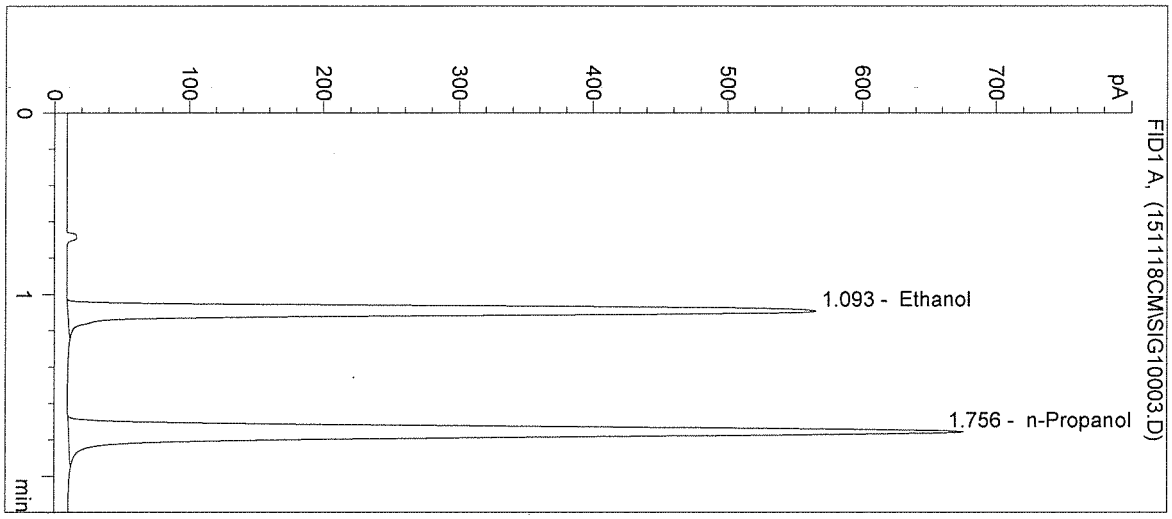
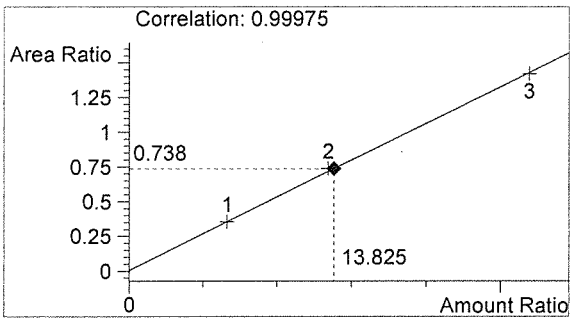
Inj. Date: 11/18/2015 7:57:57 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

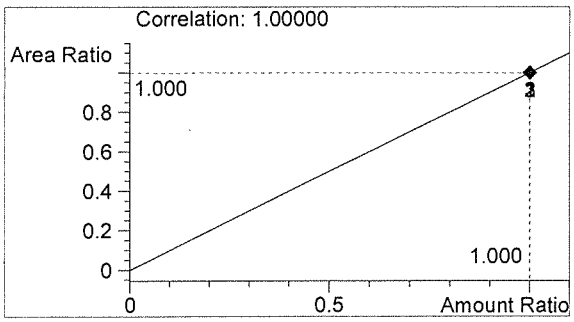
Sample Name: 0.158 CAL 2
Operator: Christie Mitchell-Mata
Location: Vial 3




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1939 | 1.093 |
| 2 | n-Propanol | 2628 | 1.756 |




Ethanol 0.166 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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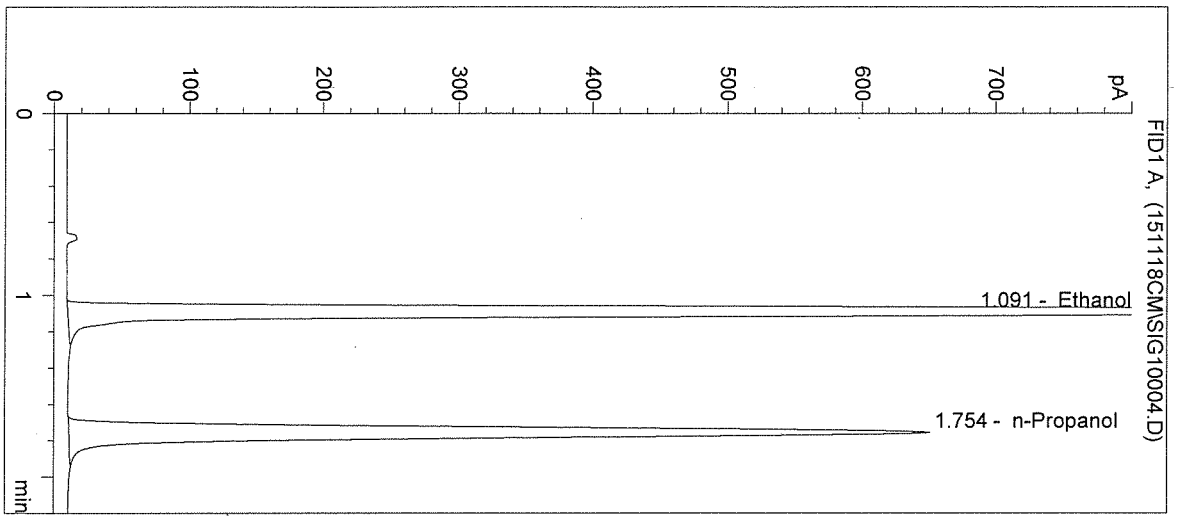
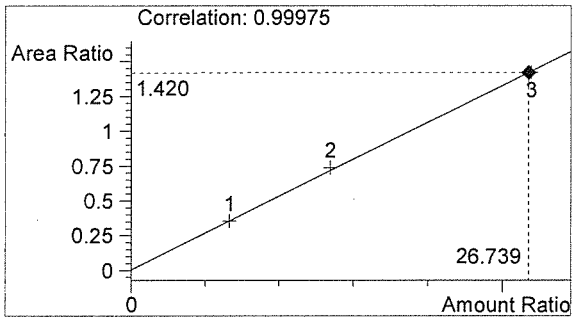
Inj. Date: 11/18/2015 8:01:14 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

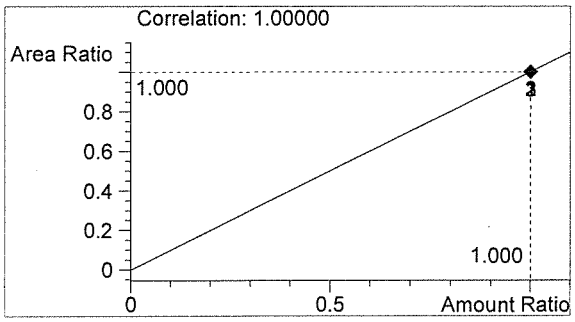
Sample Name: 0.316 CAL 3
Operator: Christie Mitchell-Mata
Location: Vial 4




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 3568 | 1.091 |
| 2 | n-Propanol | 2513 | 1.754 |




Ethanol 0.321 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151118CM\SIG10004.D

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2203 Airport Way S Seattle, WA 98134

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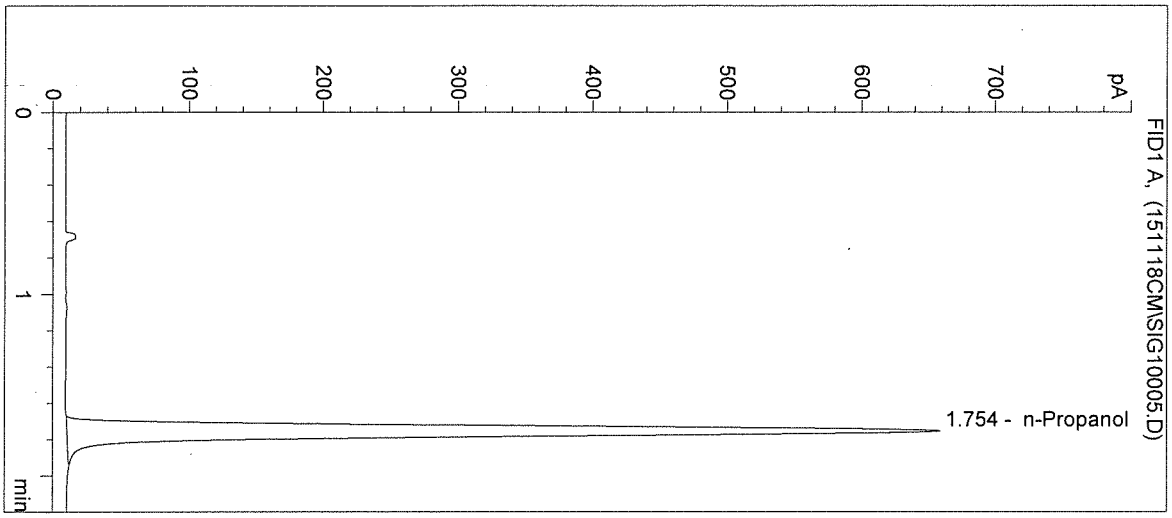
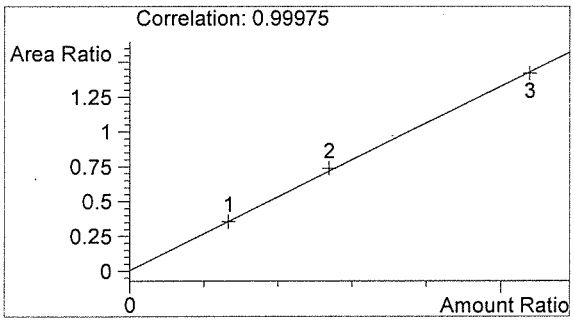
Inj. Date: 11/18/2015 8:04:28 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

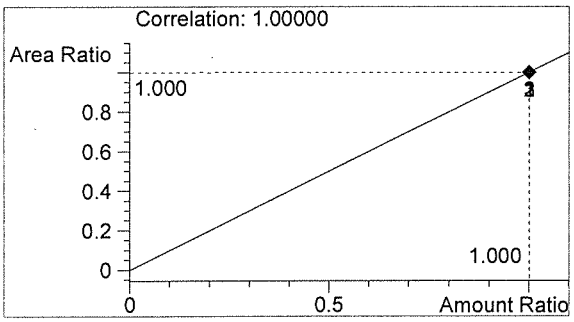
Sample Name: NEG CTRL
Operator: Christie Mitchell-Mata
Location: Vial 5




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2554 | 1.754 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151118CM\SIG10005.D

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2203 Airport Way S Seattle, WA 98134

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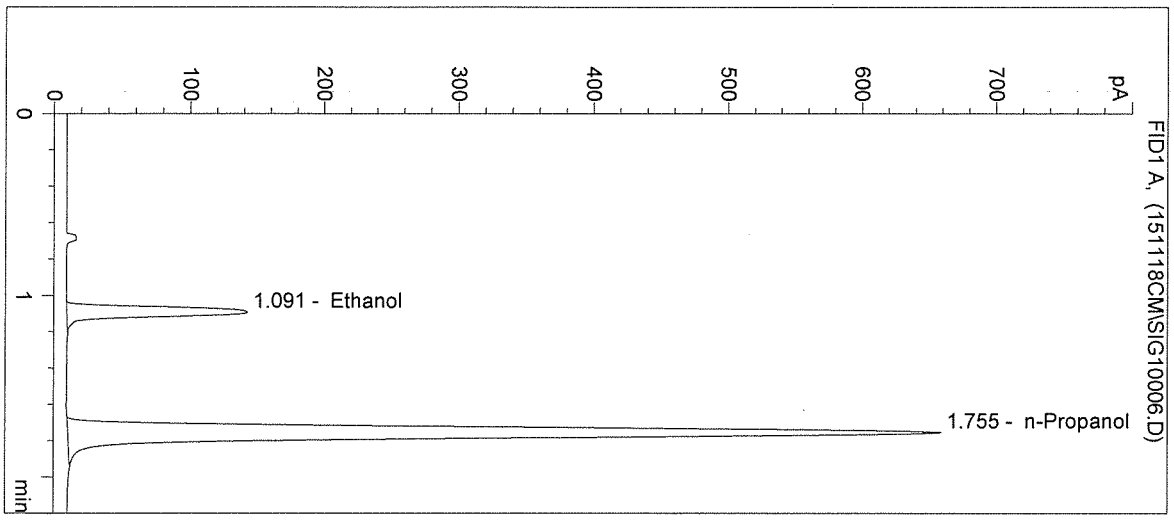
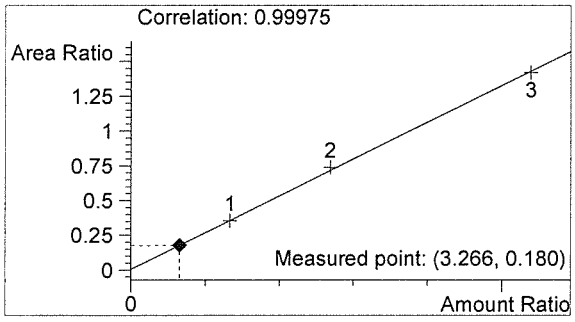
Inj. Date: 11/18/2015 8:07:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

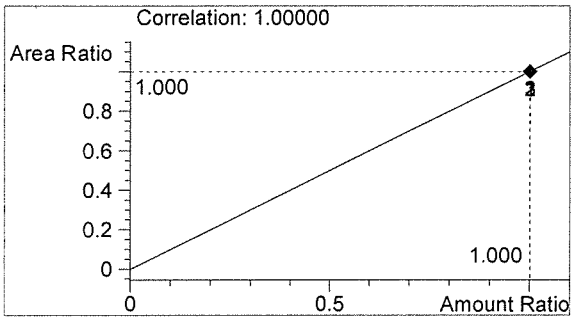
Sample Name: 0.04 CTRL
Operator: Christie Mitchell-Mata
Location: Vial 6




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 459 | 1.091 |
| 2 | n-Propanol | 2551 | 1.755 |




Ethanol 0.039 g/100mL




n-Propanol 0.012 g/100mL

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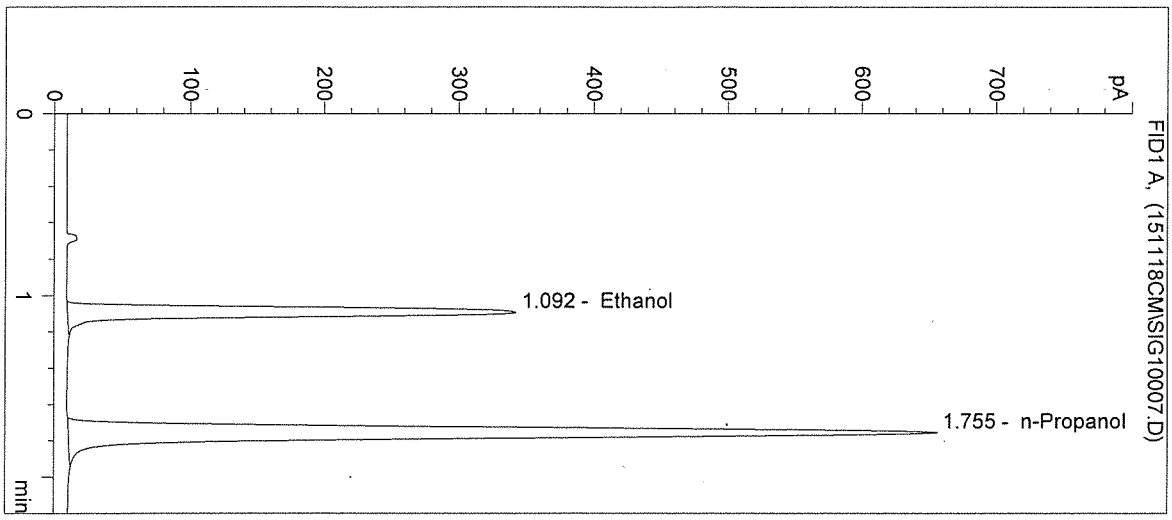
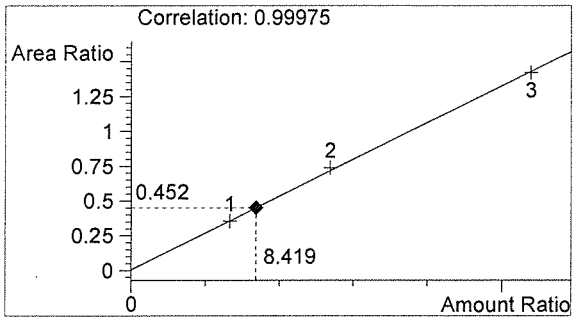
Inj. Date: 11/18/2015 8:10:55 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

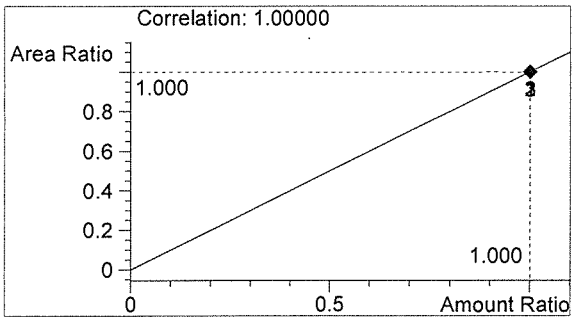
Sample Name: 0.10 CTRL
Operator: Christie Mitchell-Mata
Location: Vial 7




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1151 | 1.092 |
| 2 | n-Propanol | 2546 | 1.755 |




Ethanol 0.101 g/100mL




n-Propanol 0.012 g/100mL

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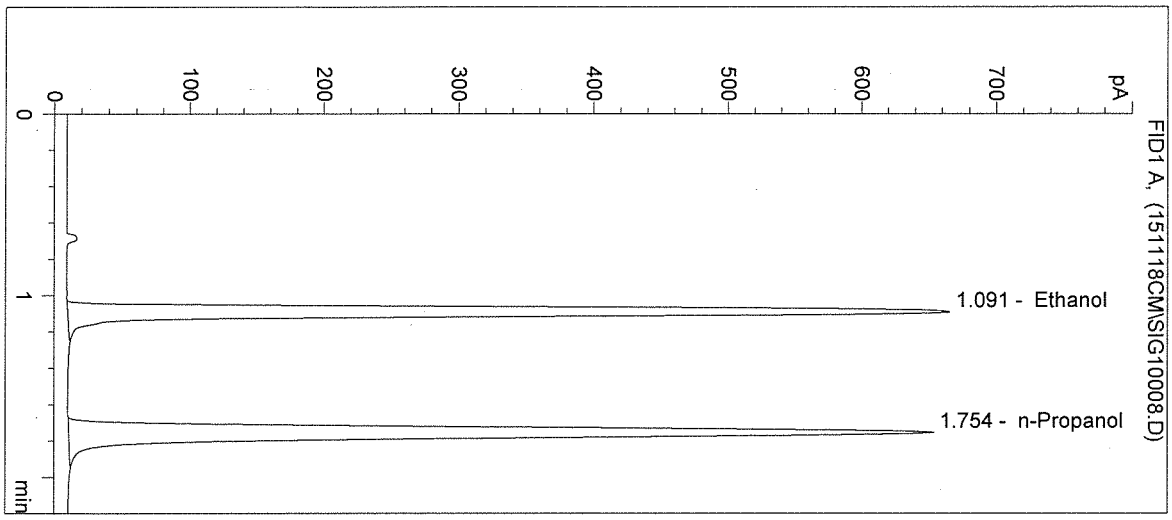
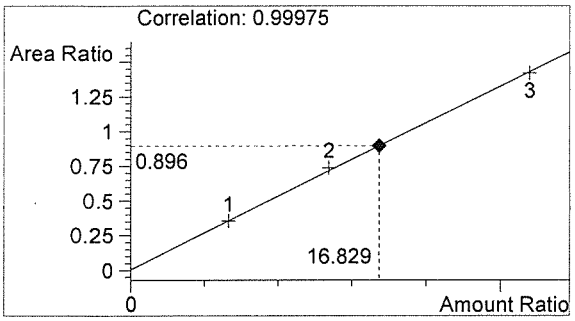
Inj. Date: 11/18/2015 8:14:08 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

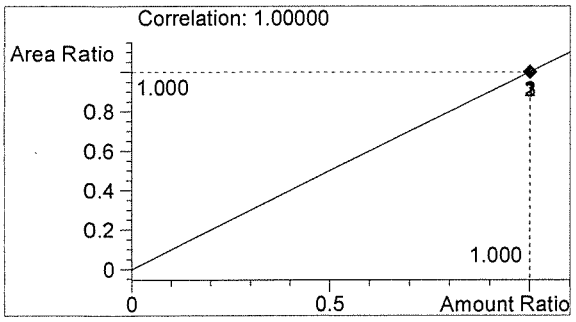
Sample Name: 0.20 CTRL
Operator: Christie Mitchell-Mata
Location: Vial 8




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2270 | 1.091 |
| 2 | n-Propanol | 2532 | 1.754 |




Ethanol 0.202 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151118CM\SIG10008.D

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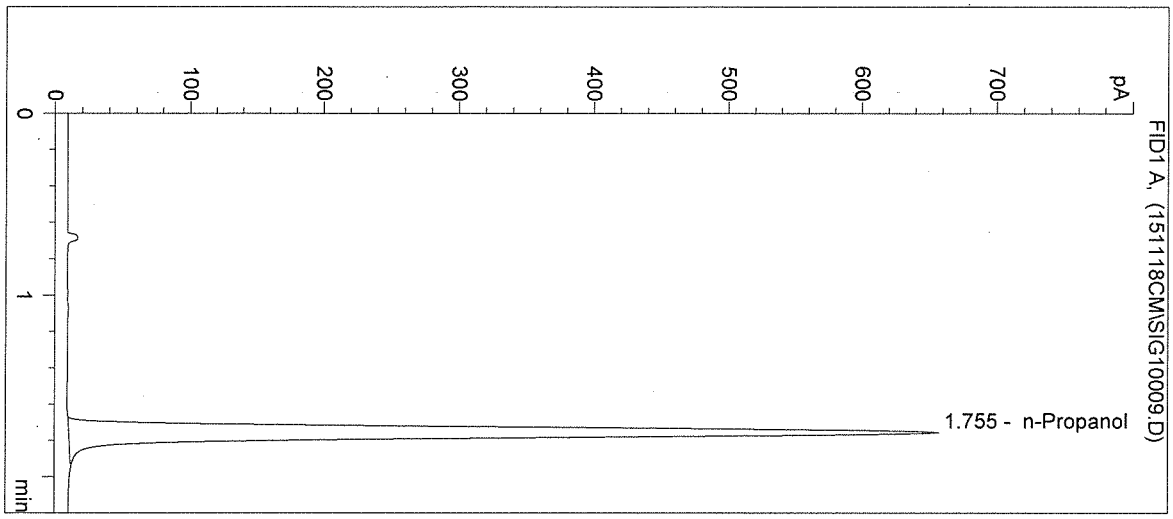
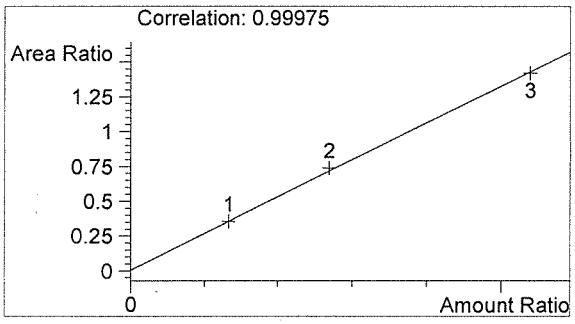
Inj. Date: 11/18/2015 8:17:21 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

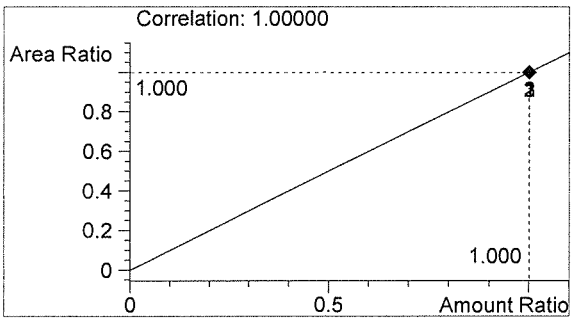
Sample Name: NEG CTRL
Operator: Christie Mitchell-Mata
Location: Vial 9




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2546 | 1.755 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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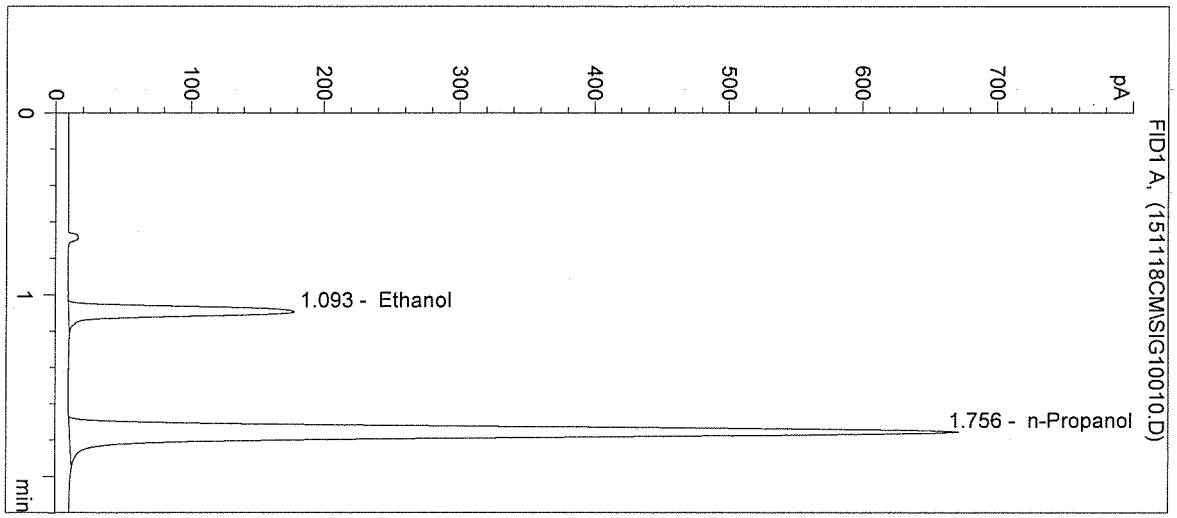
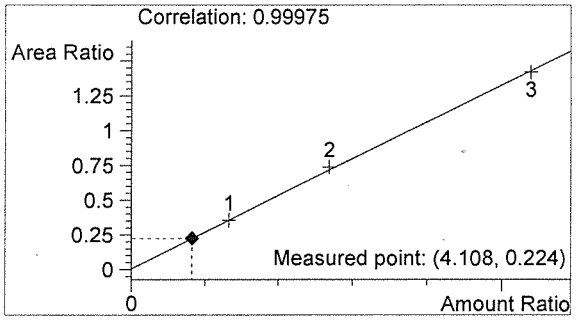
Inj. Date: 11/18/2015 8:20:35 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

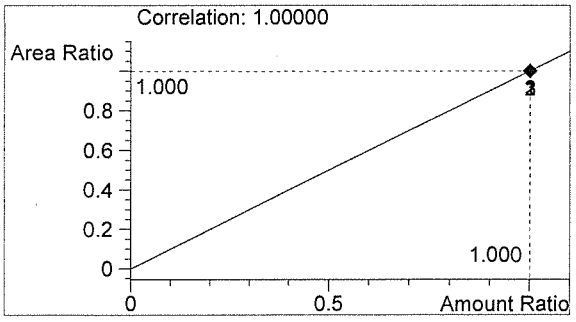
Sample Name: 15052-1
Operator: Christie Mitchell-Mata
Location: Vial 10




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 587 | 1.093 |
| 2 | n-Propanol | 2616 | 1.756 |




Ethanol 0.049 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151118CM\SIG10010.D

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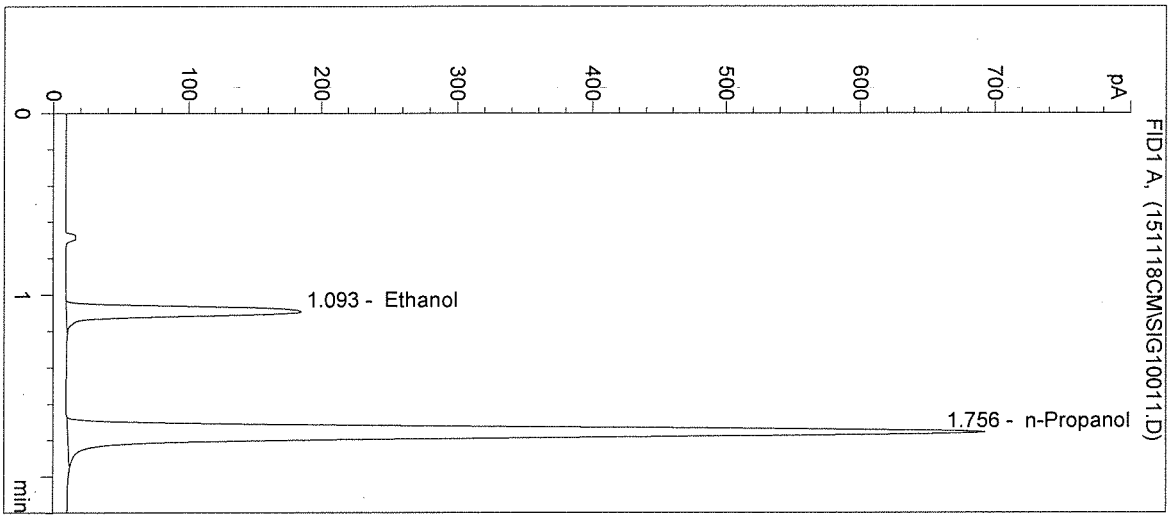
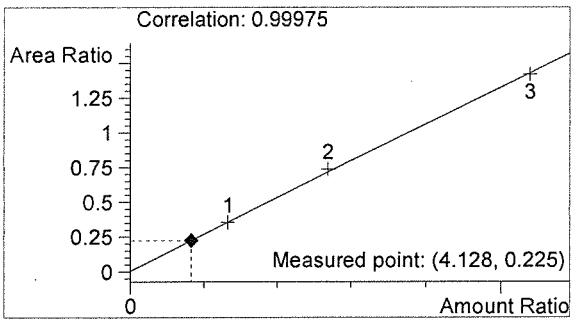
Inj. Date: 11/18/2015 8:23:48 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

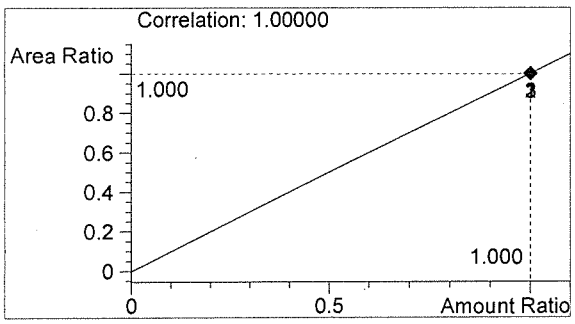
Sample Name: 15052-2
Operator: Christie Mitchell-Mata
Location: Vial 11




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 608 | 1.093 |
| 2 | n-Propanol | 2696 | 1.756 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\151118CM\SIG10011.D

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2203 Airport Way S Seattle, WA 98134

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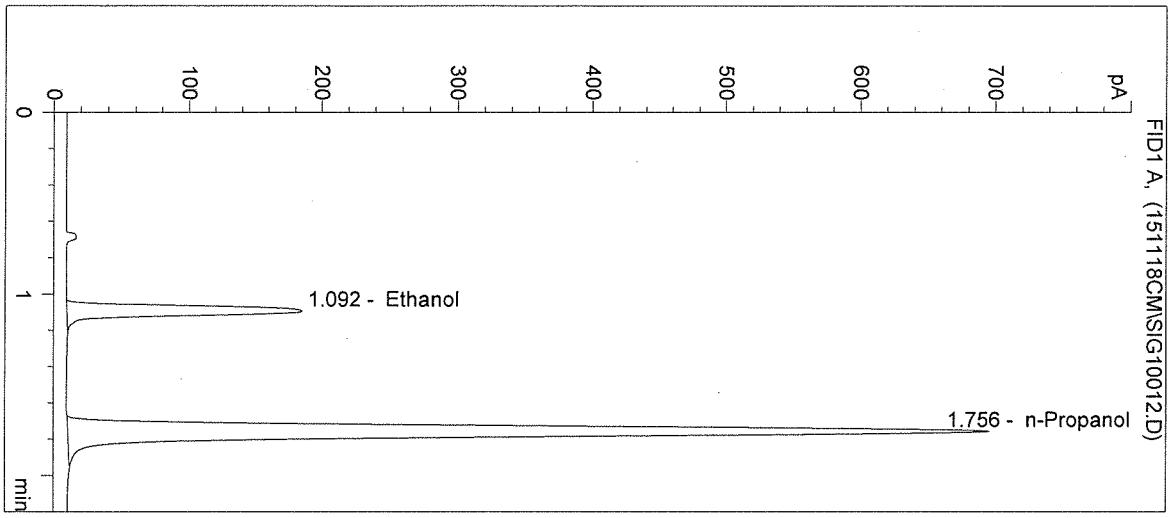
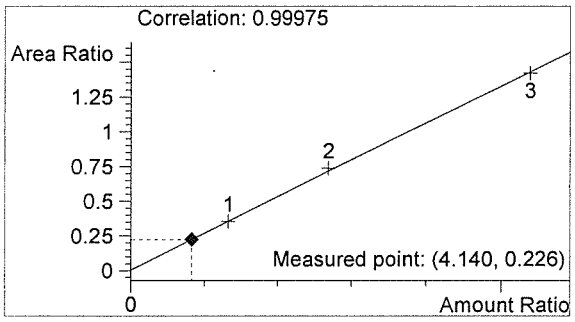
Inj. Date: 11/18/2015 8:27:01 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

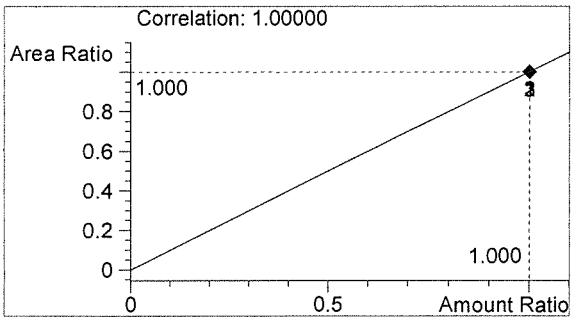
Sample Name: 15052-3
Operator: Christie Mitchell-Mata
Location: Vial 12




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 613 | 1.092 |
| 2 | n-Propanol | 2710 | 1.756 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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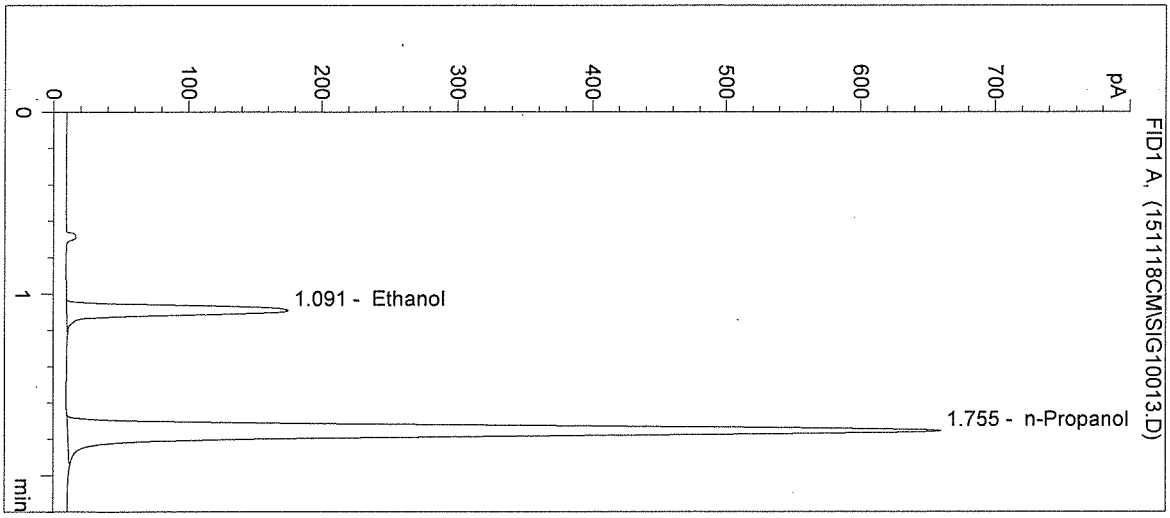
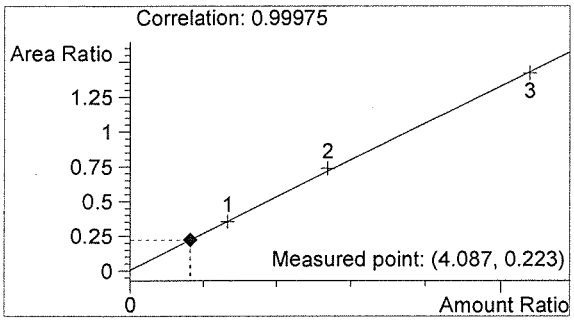
Inj. Date: 11/18/2015 8:30:14 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

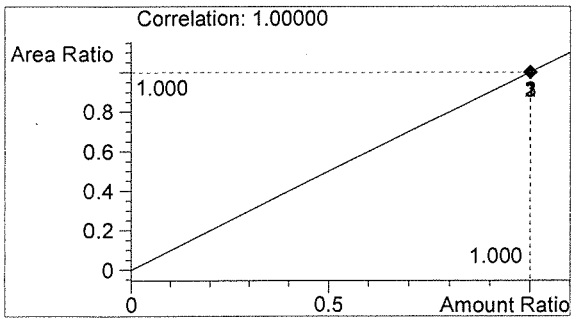
Sample Name: 15052-4
Operator: Christie Mitchell-Mata
Location: Vial 13




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 571 | 1.091 |
| 2 | n-Propanol | 2557 | 1.755 |




Ethanol 0.049 g/100mL




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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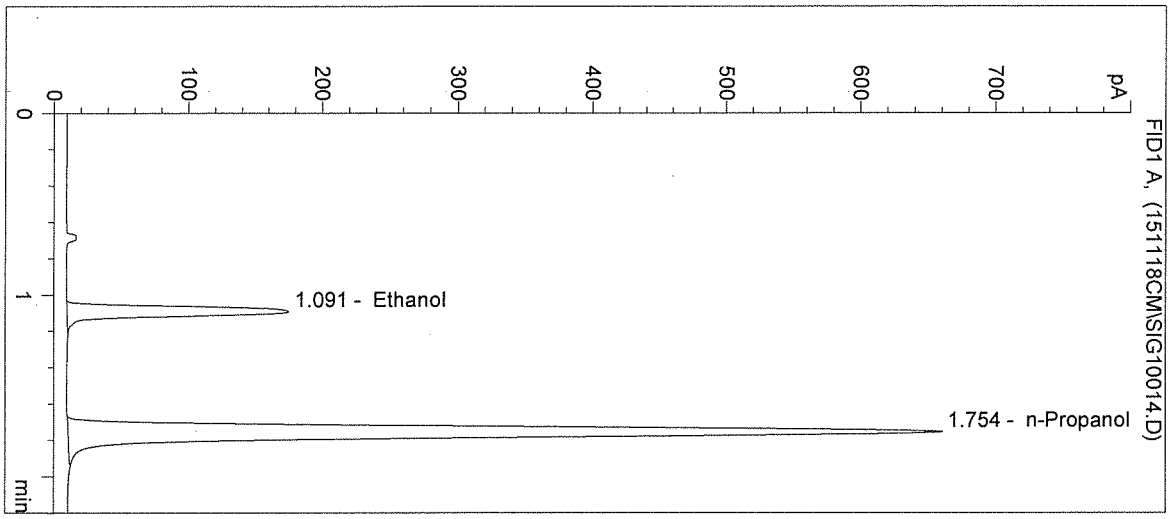
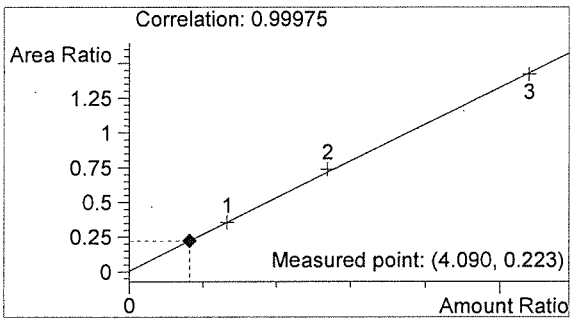
Inj. Date: 11/18/2015 8:33:28 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

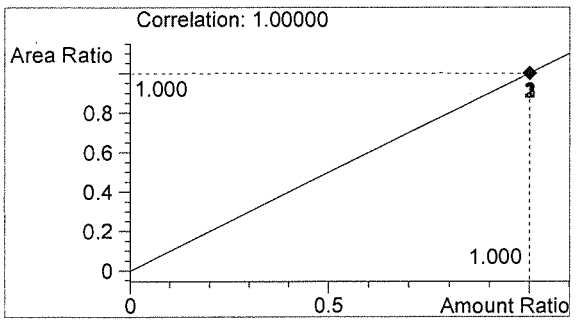
Sample Name: 15052-5
Operator: Christie Mitchell-Mata
Location: Vial 14




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 573 | 1.091 |
| 2 | n-Propanol | 2564 | 1.754 |




Ethanol 0.049 g/100mL




n-Propanol 0.012 g/100mL

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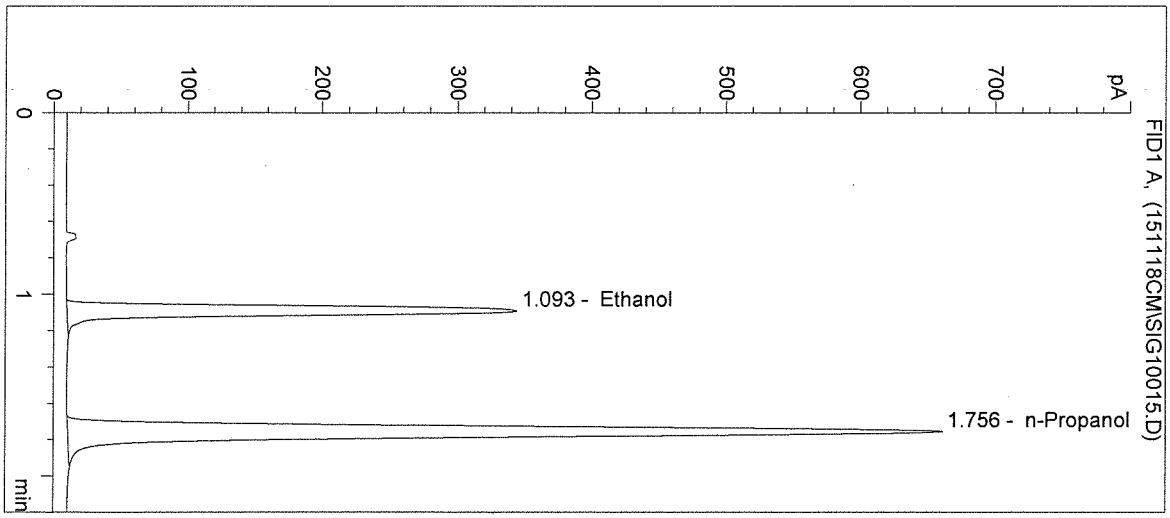
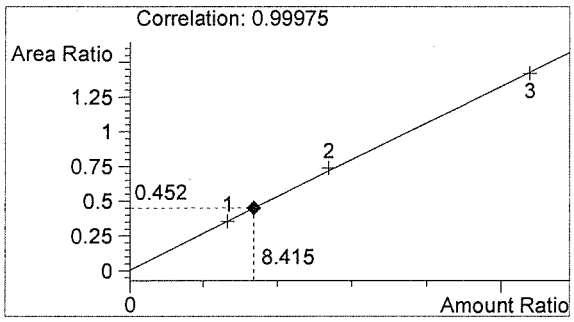
Inj. Date: 11/18/2015 8:36:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

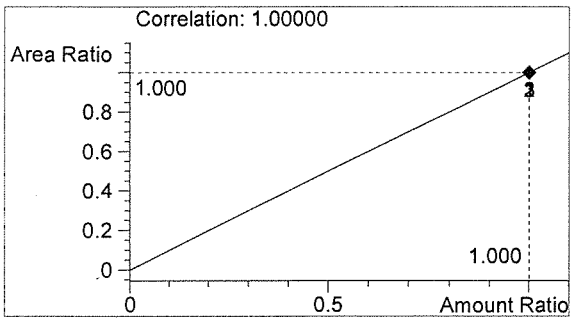
Sample Name: 0.10 CTRL
Operator: Christie Mitchell-Mata
Location: Vial 15




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1162 | 1.093 |
| 2 | n-Propanol | 2571 | 1.756 |




Ethanol 0.101 g/100mL




n-Propanol 0.012 g/100mL

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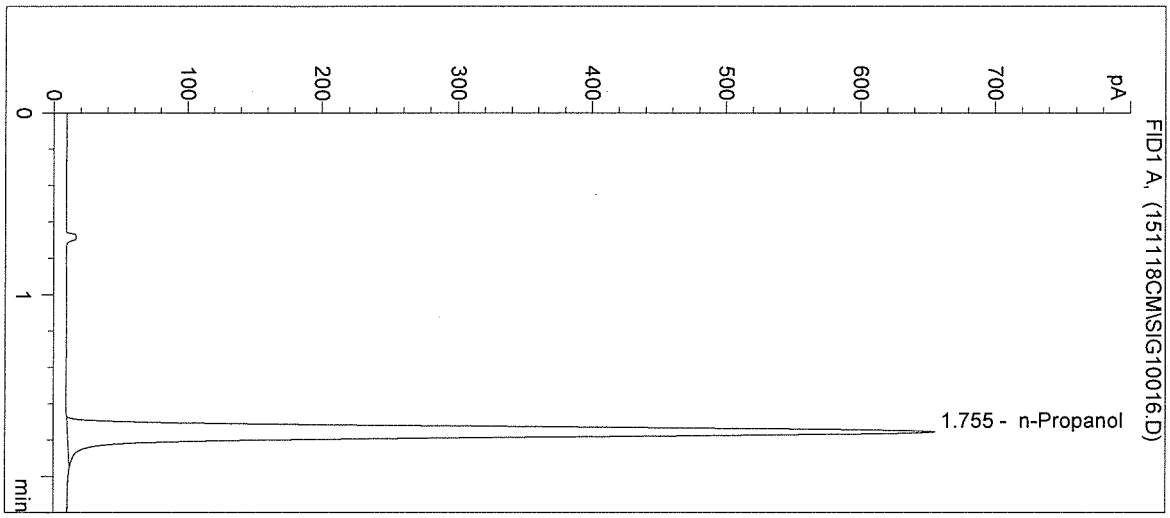
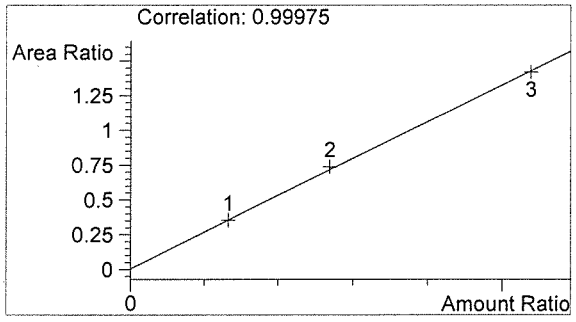
Inj. Date: 11/18/2015 8:39:54 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 15052

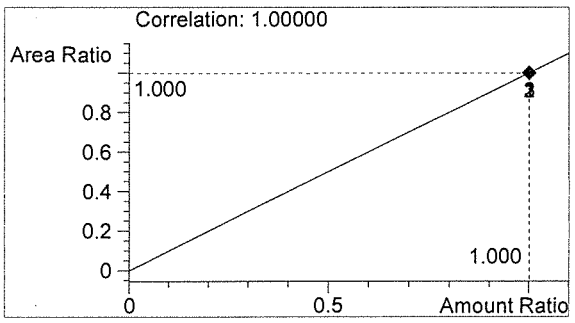
Sample Name: NEG CTRL
Operator: Christie Mitchell-Mata
Location: Vial 16




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2548 | 1.755 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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