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

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

# QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

**BATCH REPORT: 16047**

**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: 11/17/2016
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Amanda Chandler

| | AC | AG | RF |
|---|---|---|---|
| 1 | 0.051 | 0.051 | 0.050 |
| 2 | 0.050 | 0.051 | 0.051 |
| 3 | 0.051 | 0.051 | 0.051 |
| 4 | 0.050 | 0.051 | 0.050 |
| 5 | 0.051 | 0.051 | 0.050 |
| C | 0.103 | 0.103 | 0.102 |

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

**RESULTS OF TESTING**
AVERAGE SOLUTION CONCENTRATION: 0.0507 g/100mL
STANDARD DEVIATION: 0.00049
PRECISION CV (%): 0.96
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0412 g/210L**
EXPANDED UNCERTAINTY: ± 0.0010 (k=2, 95.45% confidence interval)

**WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION**

Brianne E. O'Reilly Technical Lead

12.5.2016
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

| ANALYST | NAME | SIGNATURE | DATE TESTED |
|---|---|---|---|
| AC | Amanda Chandler | | 11/17/2016 |
| AG | Andrew Gingras | | 11/17/2016 |
| RF | Rebecca Flaherty | | 11/18/2016 |

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

**QAP Solution Batch #: 16047** **Date Prepared: 11/17/2016**

| | AC | AG | RF |
|---|---|---|---|
| Analyst: | | | |
| Date Tested: | 11/17/2016 | 11/17/2016 | 11/18/2016 |
| Instrument: | HSGC #1 | HSGC #1 | HSGC #1 |
| 1 | 0.051 | 0.051 | 0.050 |
| 2 | 0.050 | 0.051 | 0.051 |
| 3 | 0.051 | 0.051 | 0.051 |
| 4 | 0.050 | 0.051 | 0.050 |
| 5 | 0.051 | 0.051 | 0.050 |
| C | 0.103 | 0.103 | 0.102 |

| $CV^2_{COA}$ | $CV^2_{QAP\ Solution}$ | $CV^2_{Control}$ | $CV^2_{Part\ Coef}$ |
|---|---|---|---|
| 0.0000084100 | 0.0000061832 | 0.0000105414 | 0.0001016326 |

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

Average Solution Concentration: 0.0507 g/100mL
Standard Deviation: 0.00049 g/100mL
Precision CV (%): 0.96
Equivalent Vapor Concentration: 0.0412 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: Brianne E. O'Reilly (Name) Brianne E O'Reilly (Signature) 11.23.16 (Date)

Calculations verified by: Amanda M. Black (Name) (Signature) 12-5-16 (Date)

Method: Hand calculation

Tech. review performed by: Brianne E. O'Reilly (Name) Brianne E O'Reilly (Signature) 11.23.16 (Date)

Washington State Patrol Toxicology Laboratory Division

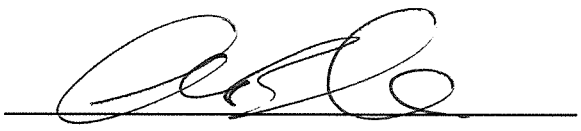
# SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 12-5-16

Location: WSP-FCSB Seattle, WA Solution Batch Number: 16047

| | 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:  Date: 12-5-16

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** | AC | 11/30/16 |
| **Andrew Gingras** | AG | 11/30/16 |
| **Asa Louis** | | |
| **Brittany Thomas** | | |
| **Christie Mitchell-Mata** | | |
| **Christopher Johnston** | | |
| **David Nguyen** | | |
| **Dawn Sklerov** | | |
| **Elizabeth Wehner** | | |
| **Justin Knoy** | | |
| **Katie Harris** | | |
| **Lyndsey Knoy** | | |
| **Naziha Nuwayhid** | | |
| **Rebecca Flaherty** | RF | 11/30/16 |

Batch # 16047

BWO 11.23.16

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 16047

I, Amanda Chandler, 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: MS degree in Forensic Toxicology.

The quality assurance procedure (QAP) solution, Lot Number 16047, was prepared in the Washington State Toxicology Laboratory on 11/17/2016. 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 11/17/2017.

Seattle, WA

Amanda Chandler 11/30/16

Amanda Chandler 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 16047

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 16047, was prepared in the Washington State Toxicology Laboratory on 11/17/2016. 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 11/17/2017.

Seattle, WA

11/30/16

Andrew Gingras Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
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*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 16047

I, Rebecca Flaherty, 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 degrees in Biochemistry and Psychobiology and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 16047, was prepared in the Washington State Toxicology Laboratory on 11/17/2016. 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 11/17/2017.

Seattle, WA

11/30/16

Rebecca Flaherty — 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: 11/17/16 Expiration Date: 11/17/17 Initials of Preparer: AC

Lot # of 200-proof Ethanol used in preparation: 2DK8010

Date the 200-proof Ethanol bottle was opened: 10/21/16

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 | ☑ | 160047 |
| QAP 0.08 | 22.4 | 18 | ☐ | |
| QAP 0.10 | 28.1 | 18 | ☐ | |
| QAP 0.15 | 42.1 | 18 | ☑ | 160048 |
| QAP 0.20 | 56.1 | 18 | ☑ | 160049 |
| 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 ☑ 11/17/16 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:

Amanda Chandler
Analyst Signature

11/17/2014
Date

E 160047
Bac 11-23-16

Sequence: C:\HPCHEM\1\SEQUENCE\ACQAP1.S

Sequence Parameters:

| | |
|---|---|
| Operator: | Amanda Chandler |
| 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: | 161117AC |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
CAL 1 (0.079g/100mL) - LOT# E0916-01 - EXP 3/15/2017
CAL 2 (0.158g/100mL) - LOT# E0916-02 - EXP 3/15/2017
CAL 3 (0.316g/100mL) - LOT# E0916-03 - EXP 3/15/2017

n-Propanol ISTD - LOT# P0916 - 12/21/2016

CTRL 1 (0.04g/100mL) - LOT# FN12181501 - EXP 12/2020
CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
CTRL 3 (0.20g/100mL) - LOT# FN08101505 - EXP 2/2021

Calibrators and controls filed with 16047
Dilutor #1

16047
BWO 11.23.16

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 | QAP 16047 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | QAP 16047 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | QAP 16047 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | QAP 16047 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | QAP 16047 #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 | QAP 16048 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | QAP 16048 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | QAP 16048 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | QAP 16048 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | QAP 16048 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

AR

Sequence: C:\HPCHEM\1\SEQUENCE\ACQAP1.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 24 | Vial 24 | QAP 16049 #1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | QAP 16049 #2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | QAP 16049 #3 | SIMALC1 | 1 | Sample | | |
| 27 | Vial 27 | QAP 16049 #4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | QAP 16049 #5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | 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!

16047
BWO 11.23.16

## Calibration Table

Calib. Data Modified : Thursday, November 17, 2016 9:43:43 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] | Lvl Sig | | Amount [g/100mL] | Area | Amt/Area | Ref | Grp | Name |
|---|---|---|---|---|---|---|---|---|
| 1.087 | 1 | 1 | 8.00100e-2 | 1036.62109 | 7.71835e-5 | 1 | | Ethanol |
| | | 2 | 1.61200e-1 | 2013.91064 | 8.00433e-5 | | | |
| | | 3 | 3.21790e-1 | 3919.99097 | 8.20895e-5 | | | |
| 1.766 | 1 | 1 | 1.20000e-2 | 2735.93164 | 4.38607e-6 | I1 | | n-Propanol |
| | | 2 | 1.20000e-2 | 2688.77881 | 4.46299e-6 | | | |
| | | 3 | 1.20000e-2 | 2627.47168 | 4.56713e-6 | | | |

16047
Rec 11-23-16

## Peak Sum Table

***No Entries in table***

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Calibration Curves

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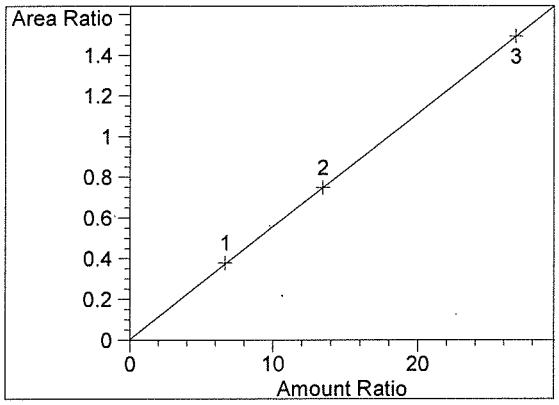
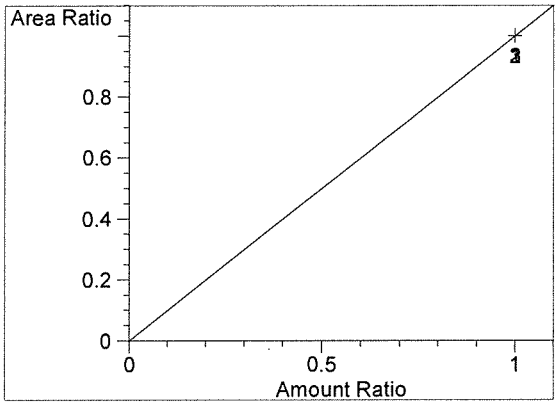



Ethanol at exp. RT: 1.087
FID1 A,
Correlation: 0.99998
Residual Std. Dev.: 0.00443
Formula: y = mx + b
m: 5.55410e-2
b: 3.50630e-3
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 1.766
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

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16047
BLO 11-23-16

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

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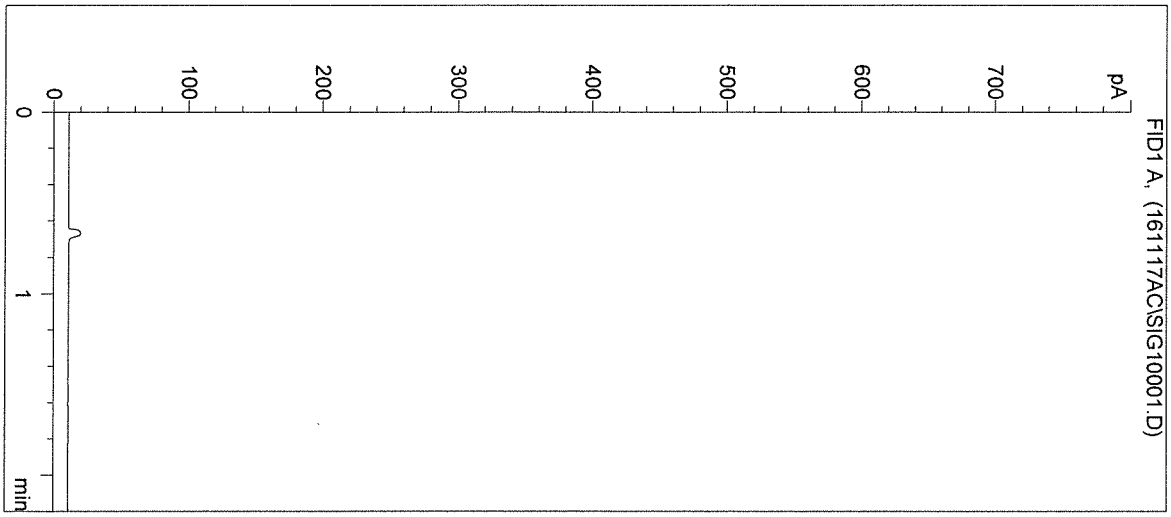
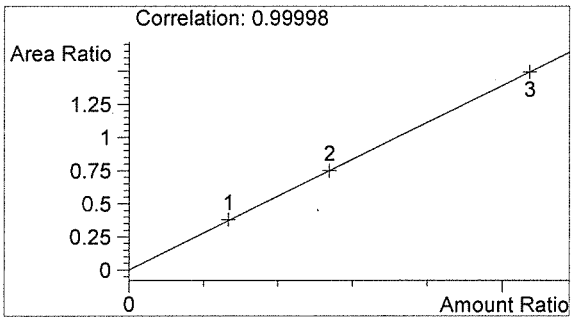
Inj. Date: 11/17/2016 9:31:37 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: BLANK
Operator: Amanda Chandler
Location: Vial 1

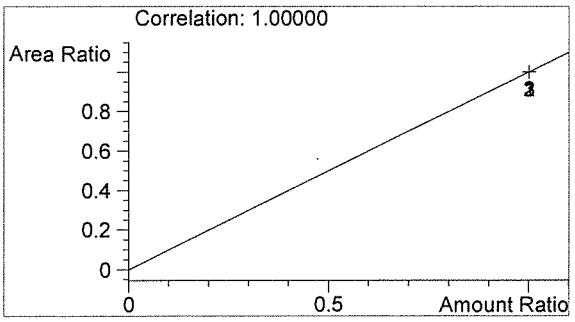



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |




Ethanol 0.000 g/100mL

BLO




n-Propanol 0.000 g/100mL

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

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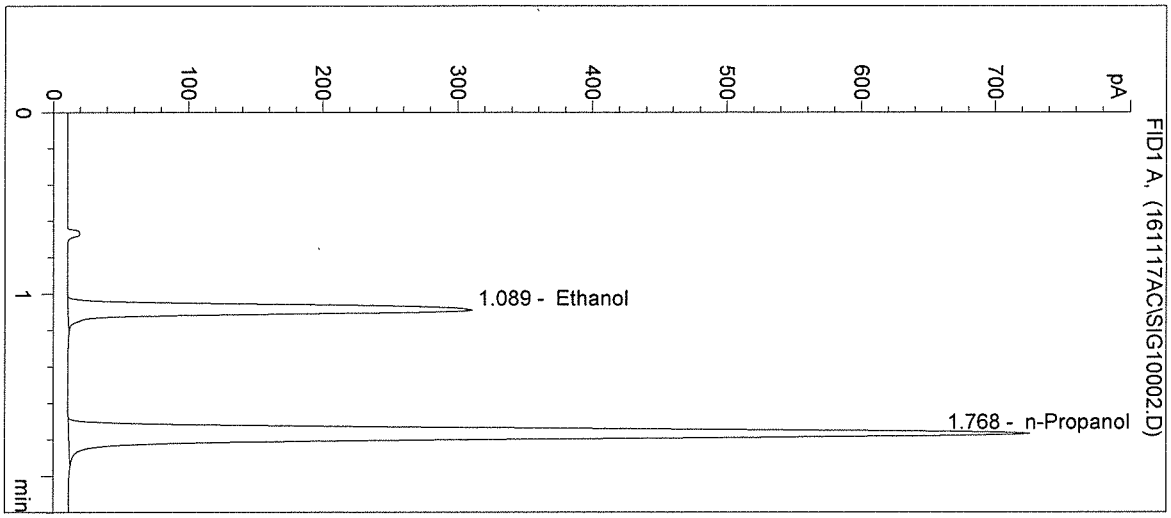
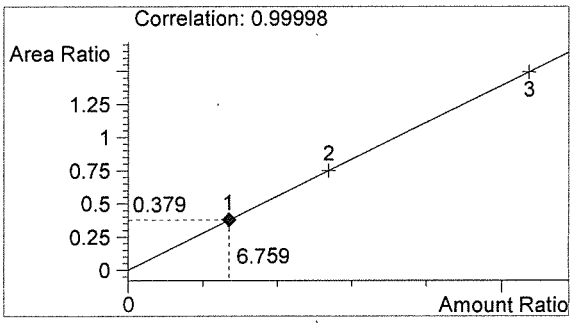
Inj. Date: 11/17/2016 9:34:55 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.079 CAL 1
Operator: Amanda Chandler
Location: Vial 2

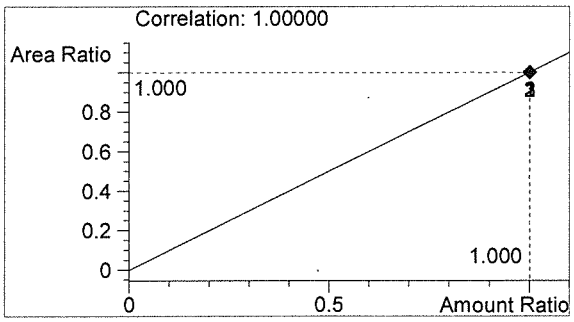



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1037 | 1.089 |
| 2 | n-Propanol | 2736 | 1.768 |




Ethanol 0.081 g/100mL

BWO




n-Propanol 0.012 g/100mL

AR

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Data File: C:\HPCHEM\1\DATA\161117AC\SIG10002.D

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2203 Airport Way S Seattle, WA 98134

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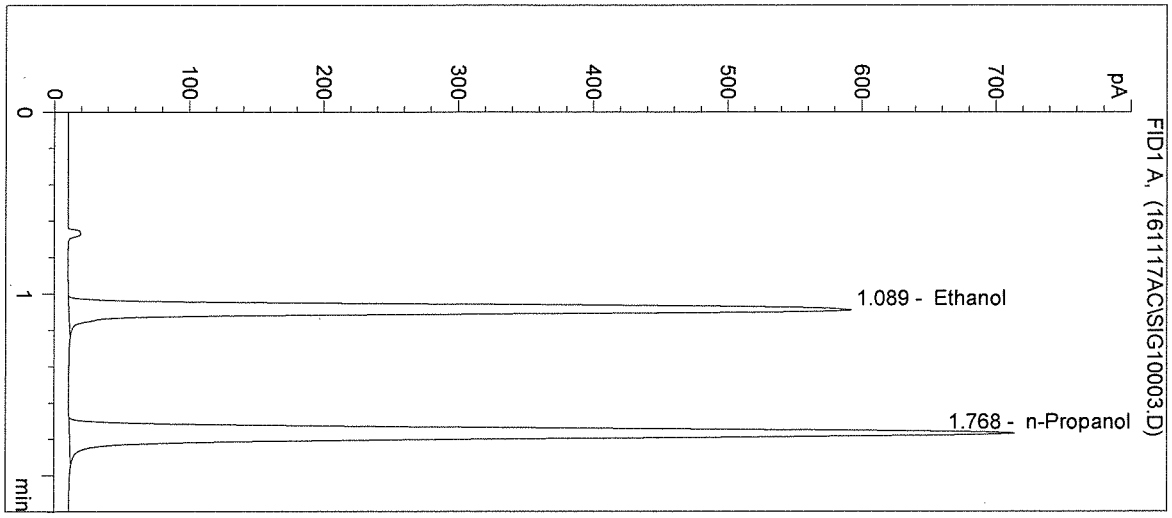
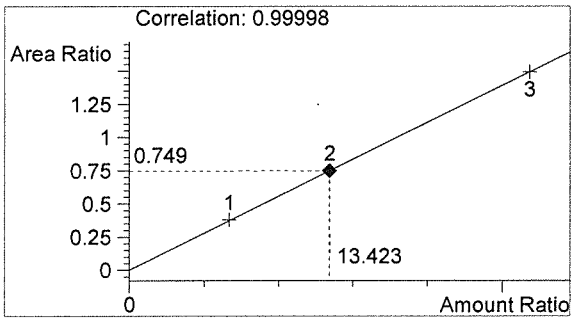
Inj. Date: 11/17/2016 9:38:12 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

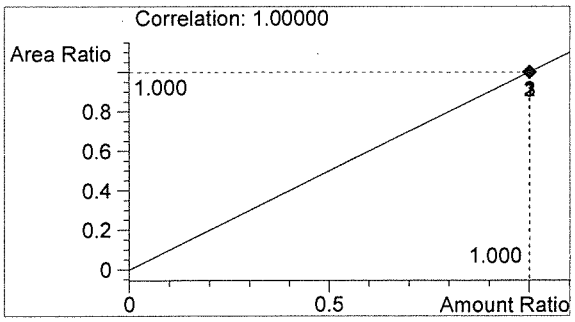
Sample Name: 0.158 CAL 2
Operator: Amanda Chandler
Location: Vial 3




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2014 | 1.089 |
| 2 | n-Propanol | 2689 | 1.768 |




Ethanol 0.161 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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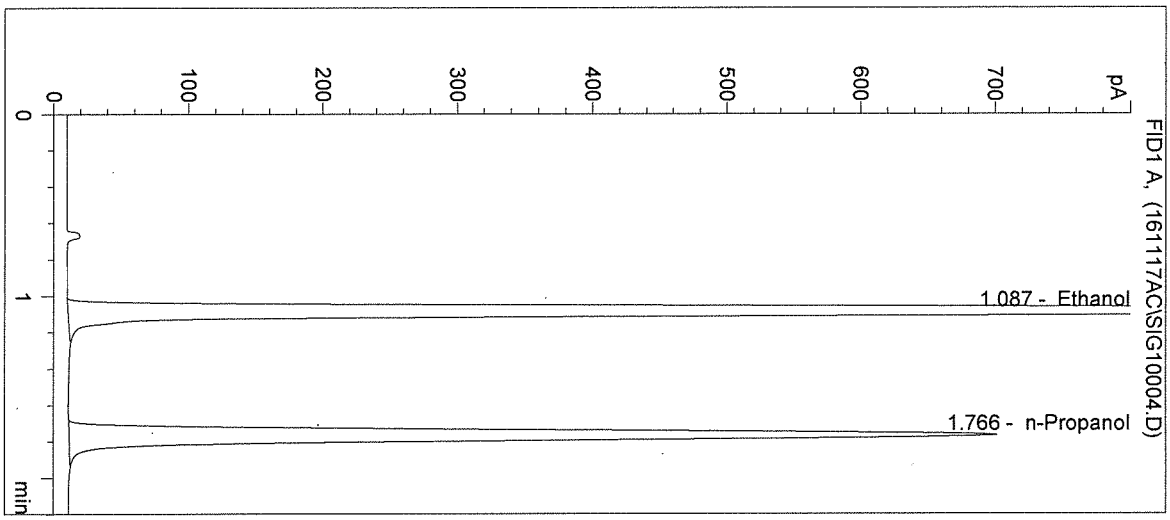
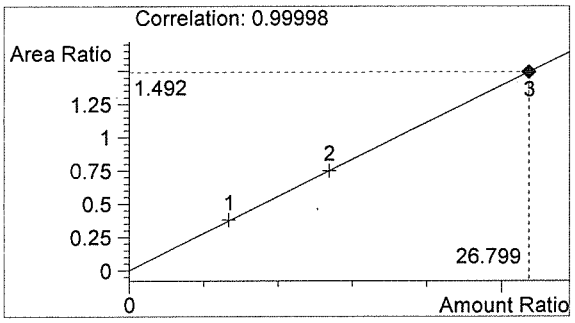
Inj. Date: 11/17/2016 9:41:30 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.316 CAL 3
Operator: Amanda Chandler
Location: Vial 4

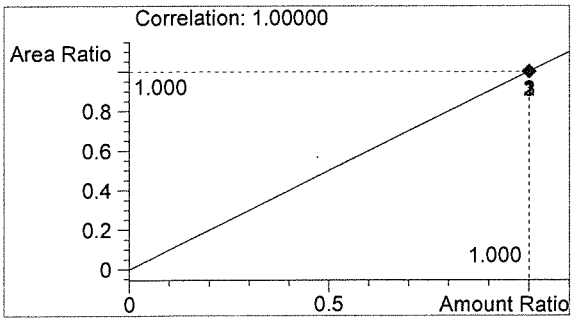



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 3920 | 1.087 |
| 2 | n-Propanol | 2627 | 1.766 |




Ethanol 0.322 g/100mL

BWO




n-Propanol 0.012 g/100mL

AR

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

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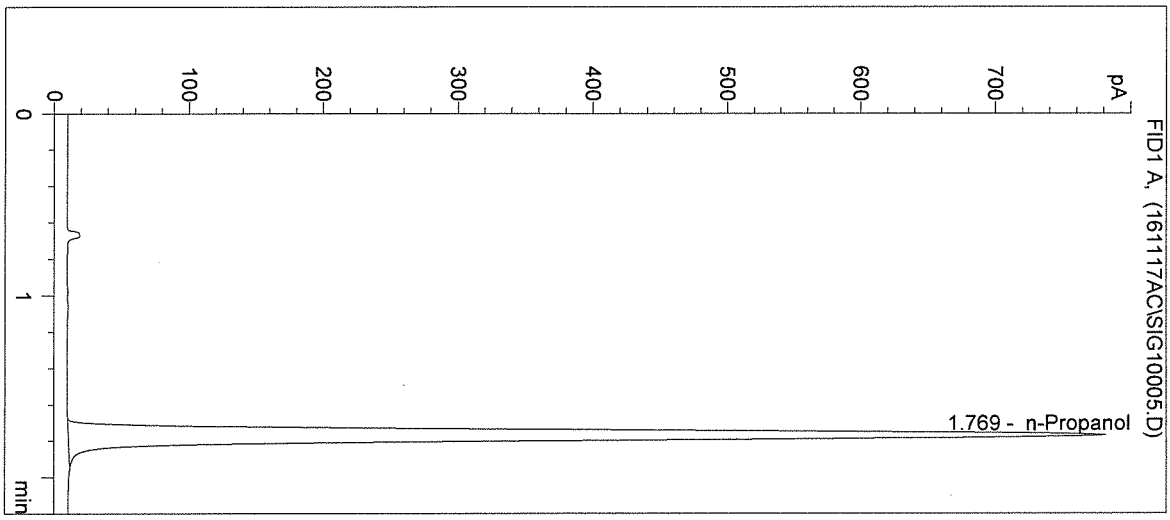
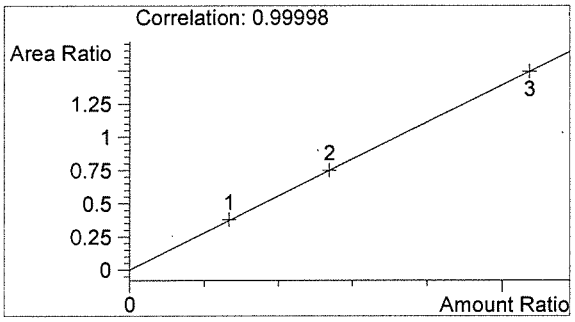
Inj. Date: 11/17/2016 9:44:43 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: NEG CTRL
Operator: Amanda Chandler
Location: Vial 5

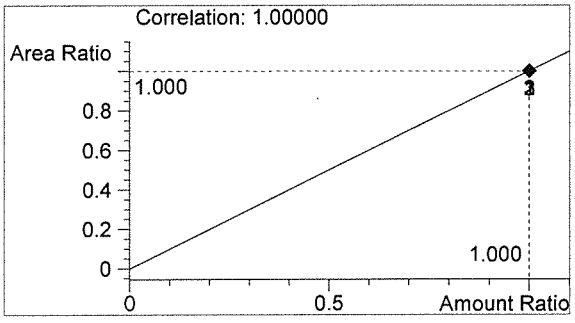



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2955 | 1.769 |




Ethanol 0.000 g/100mL

BLO




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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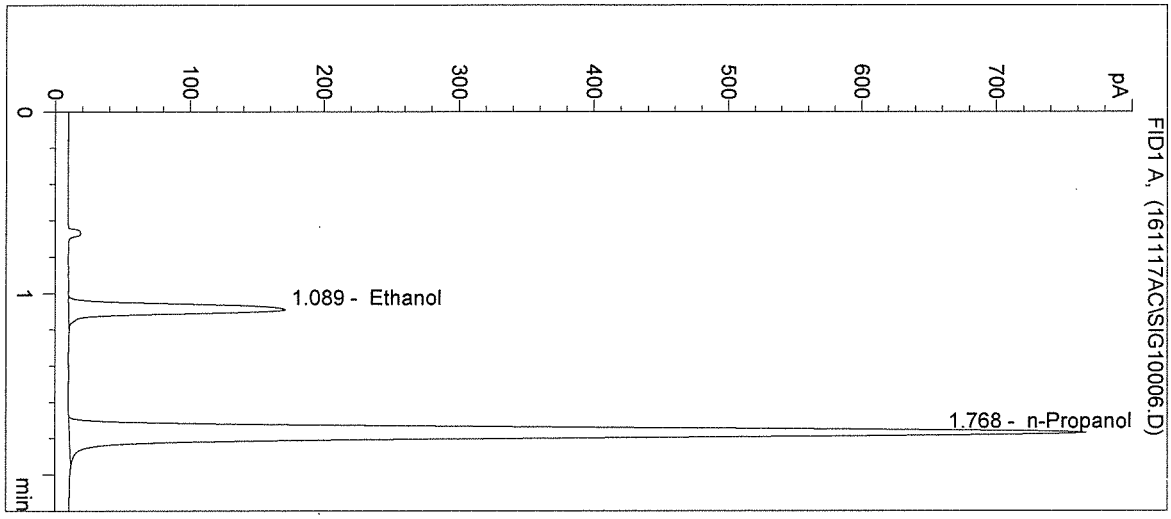
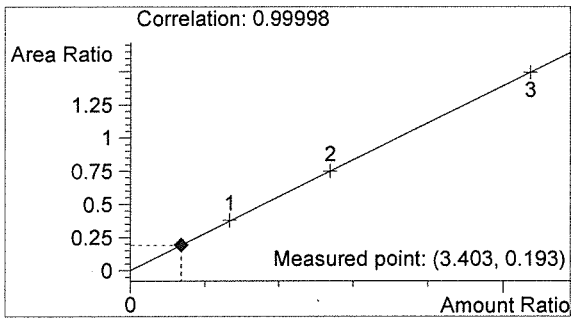
Inj. Date: 11/17/2016 9:47:56 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.04 CTRL
Operator: Amanda Chandler
Location: Vial 6

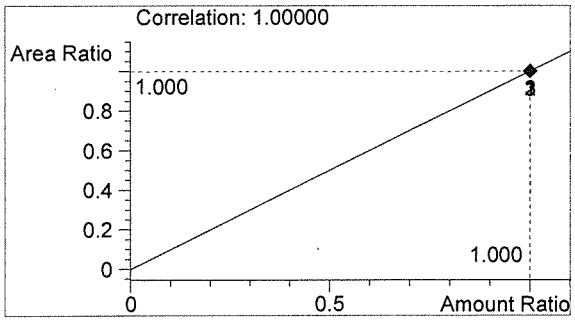



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 558 | 1.089 |
| 2 | n-Propanol | 2899 | 1.768 |




Ethanol 0.041 g/100mL

BWD




n-Propanol 0.012 g/100mL

AR

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

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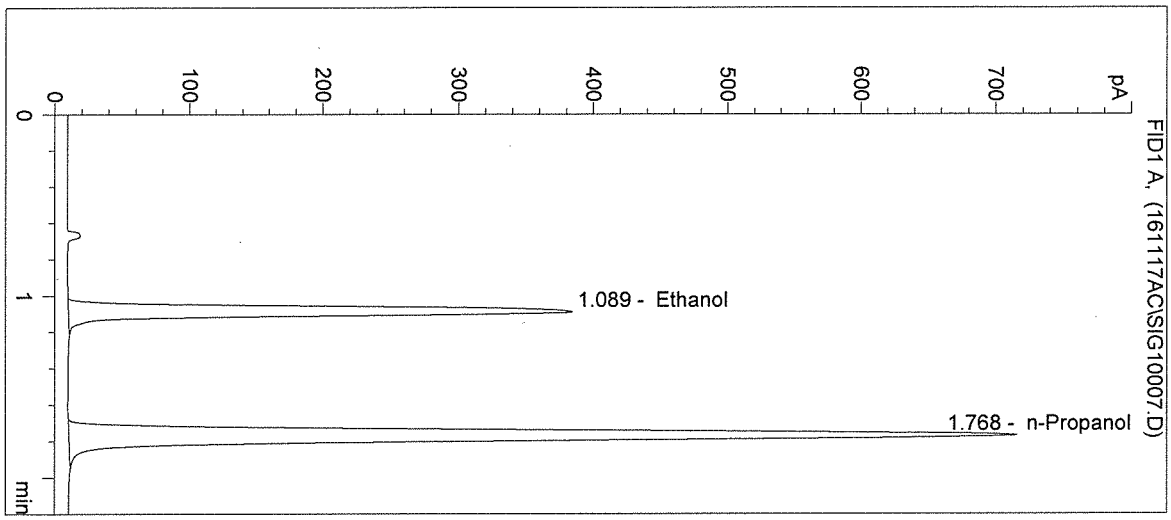
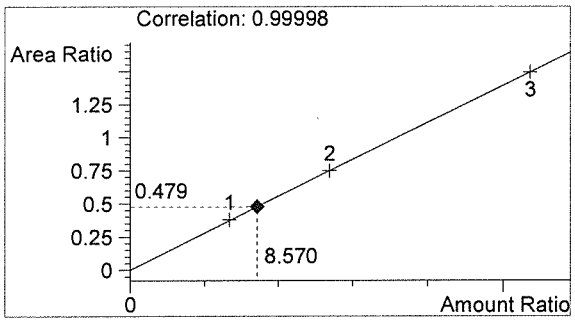
Inj. Date: 11/17/2016 9:51:10 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.10 CTRL
Operator: Amanda Chandler
Location: Vial 7

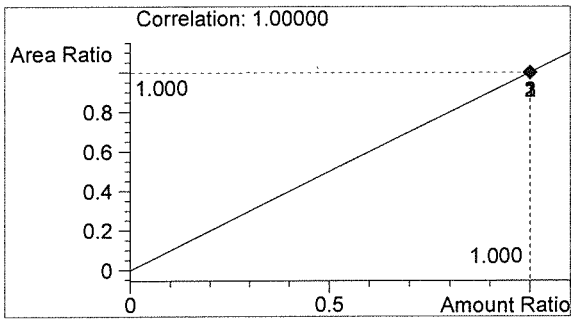



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1297 | 1.089 |
| 2 | n-Propanol | 2705 | 1.768 |




Ethanol 0.103 g/100mL

Ruo




n-Propanol 0.012 g/100mL

AL

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

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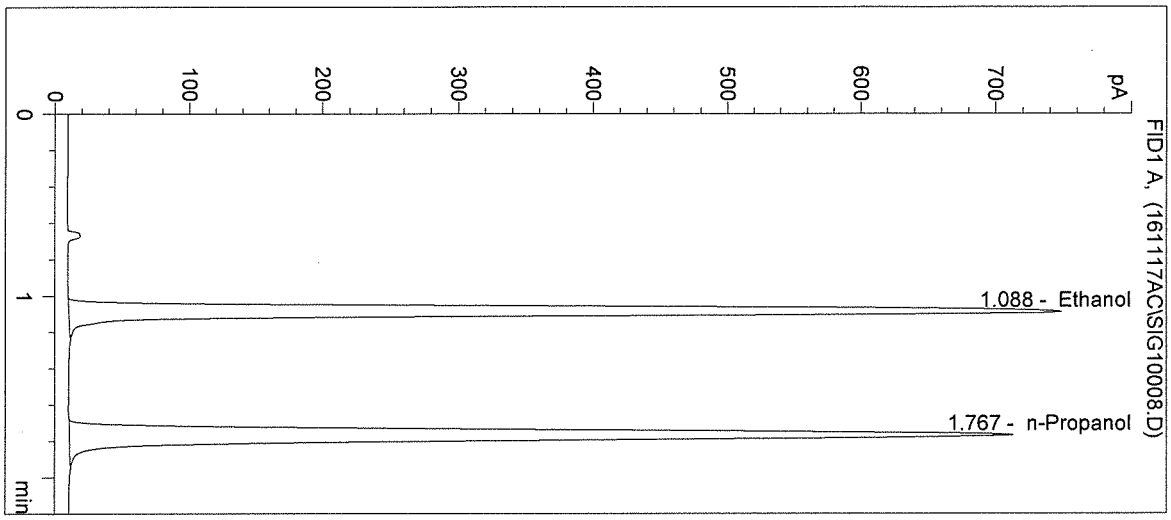
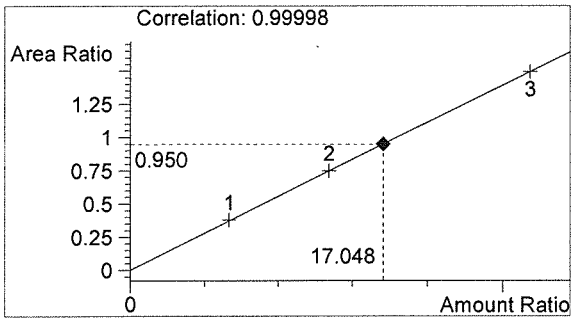
Inj. Date: 11/17/2016 9:54:23 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.20 CTRL
Operator: Amanda Chandler
Location: Vial 8

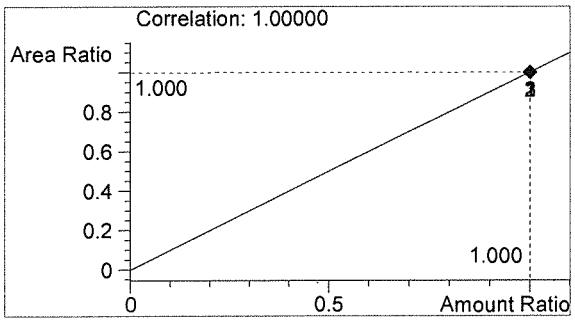



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2545 | 1.088 |
| 2 | n-Propanol | 2678 | 1.767 |




Ethanol 0.205 g/100mL

BLD




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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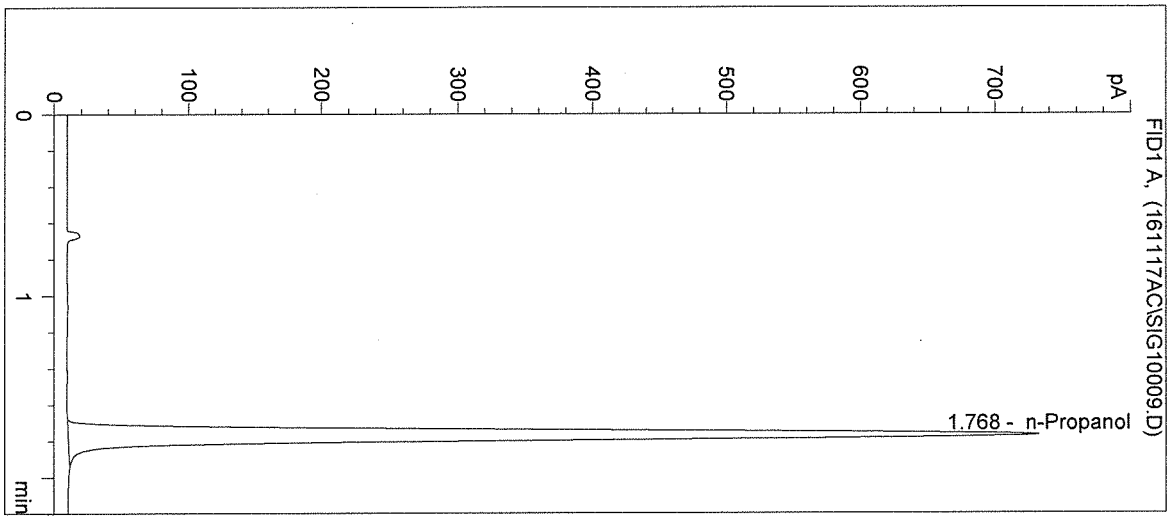
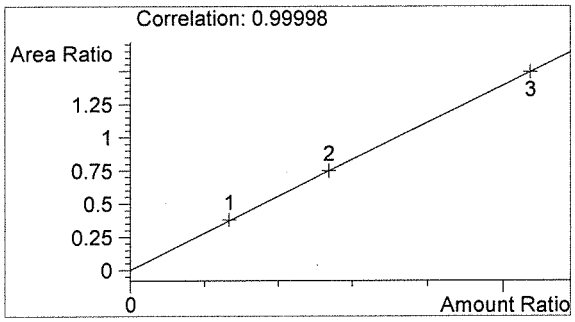
Inj. Date: 11/17/2016 9:57:36 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: NEG CTRL
Operator: Amanda Chandler
Location: Vial 9

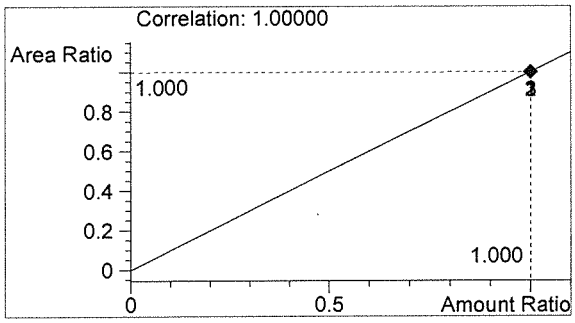



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2764 | 1.768 |




Ethanol 0.000 g/100mL

BLD




n-Propanol 0.012 g/100mL

AR

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Data File: C:\HPCHEM\1\DATA\161117AC\SIG10009.D

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

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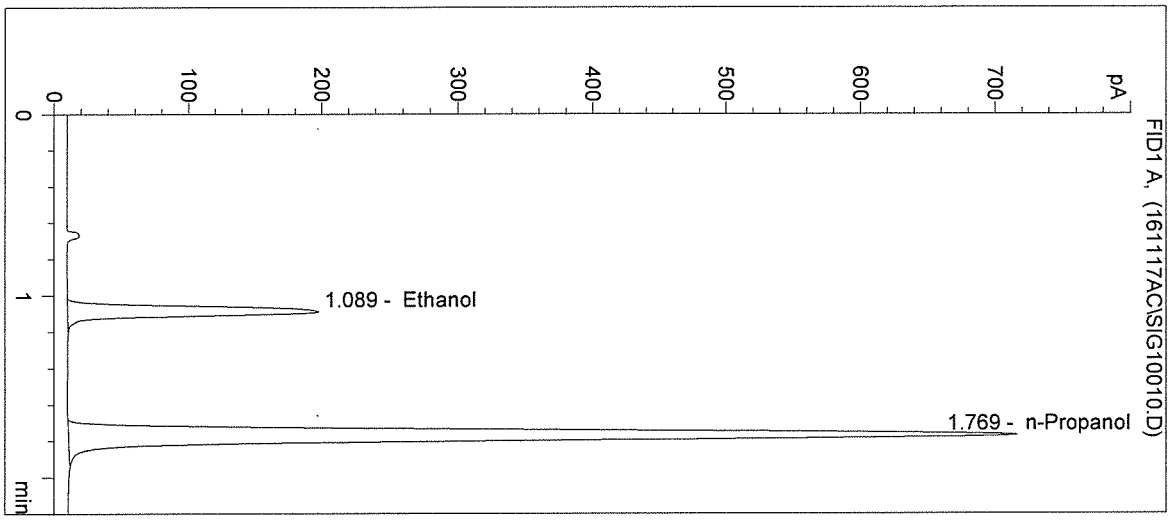
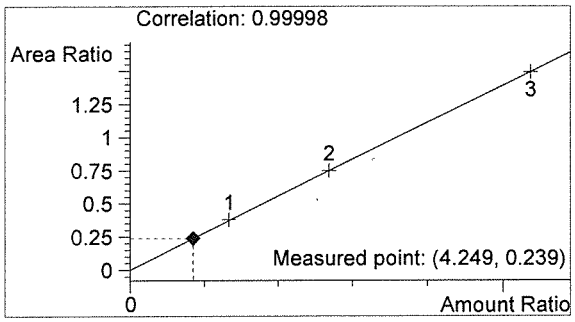
Inj. Date: 11/17/2016 10:00:51 AM  Sample Name: QAP 16047 #1
Instrument: HSGC#1  Operator: Amanda Chandler
Column: DB-ALC1  Location: Vial 10
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

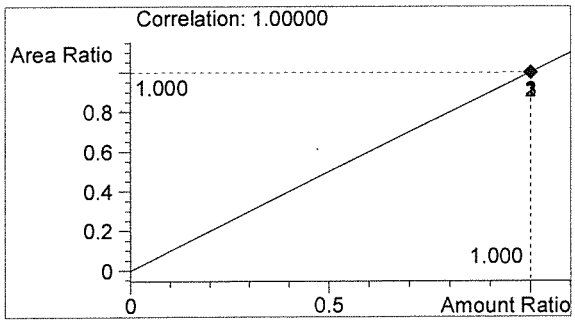



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 647 | 1.089 |
| 2 | n-Propanol | 2704 | 1.769 |




Ethanol 0.051 g/100mL

BWO




n-Propanol 0.012 g/100mL

AR

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

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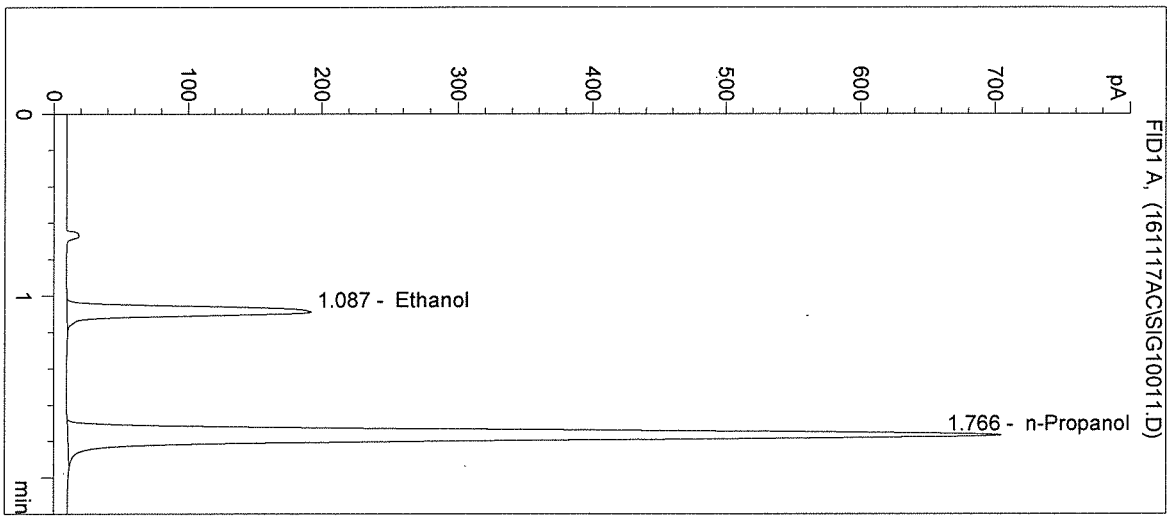
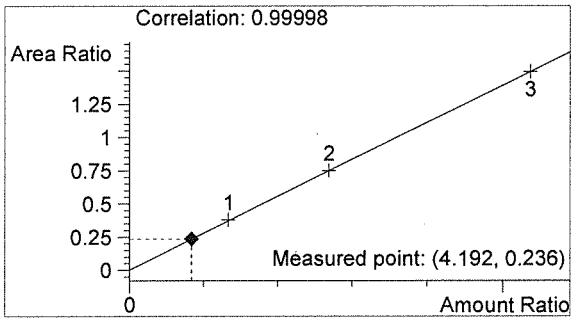
Inj. Date: 11/17/2016 10:04:03 AM  Sample Name: QAP 16047 #2
Instrument: HSGC#1  Operator: Amanda Chandler
Column: DB-ALC1  Location: Vial 11
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

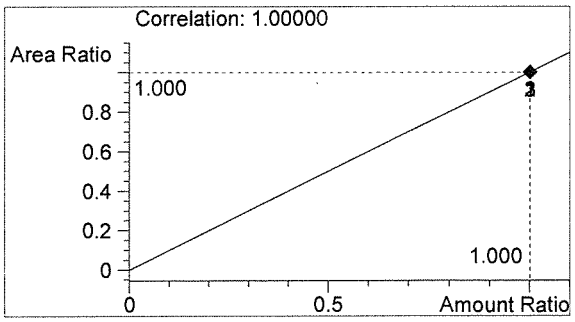



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 623 | 1.087 |
| 2 | n-Propanol | 2637 | 1.766 |




Ethanol 0.050 g/100mL

BWO




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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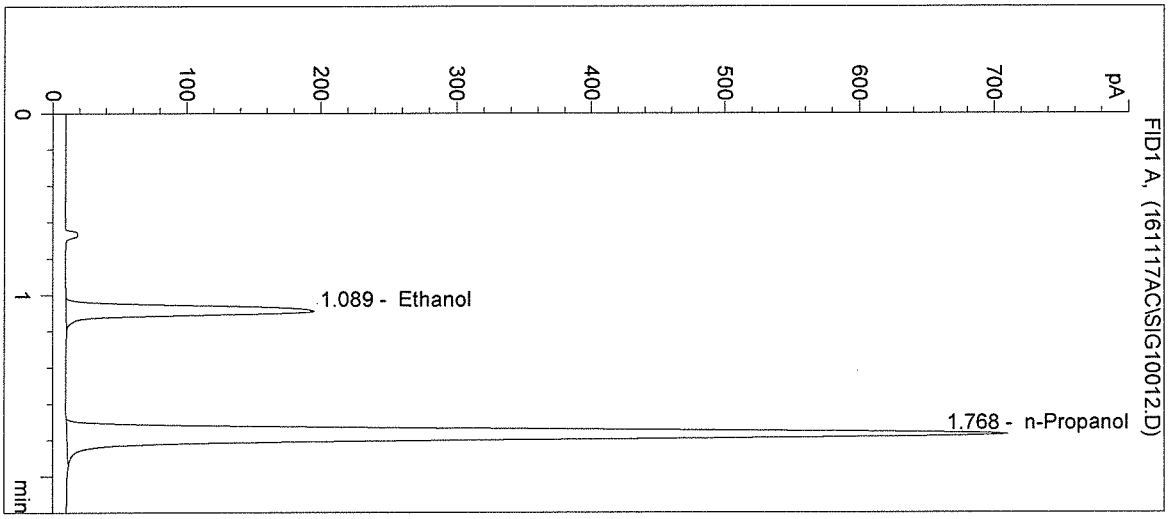
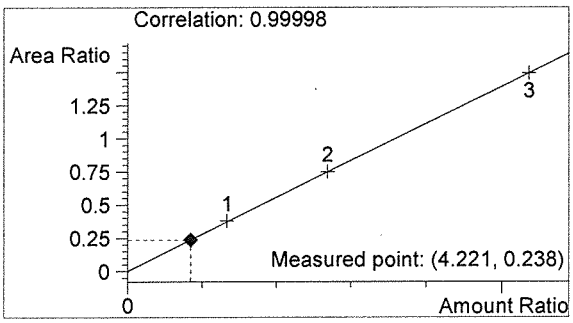
Inj. Date: 11/17/2016 10:07:16 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #3
Operator: Amanda Chandler
Location: Vial 12

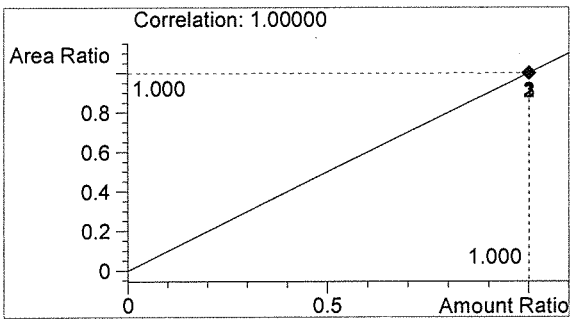



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 636 | 1.089 |
| 2 | n-Propanol | 2672 | 1.768 |




Ethanol 0.051 g/100mL

BLO




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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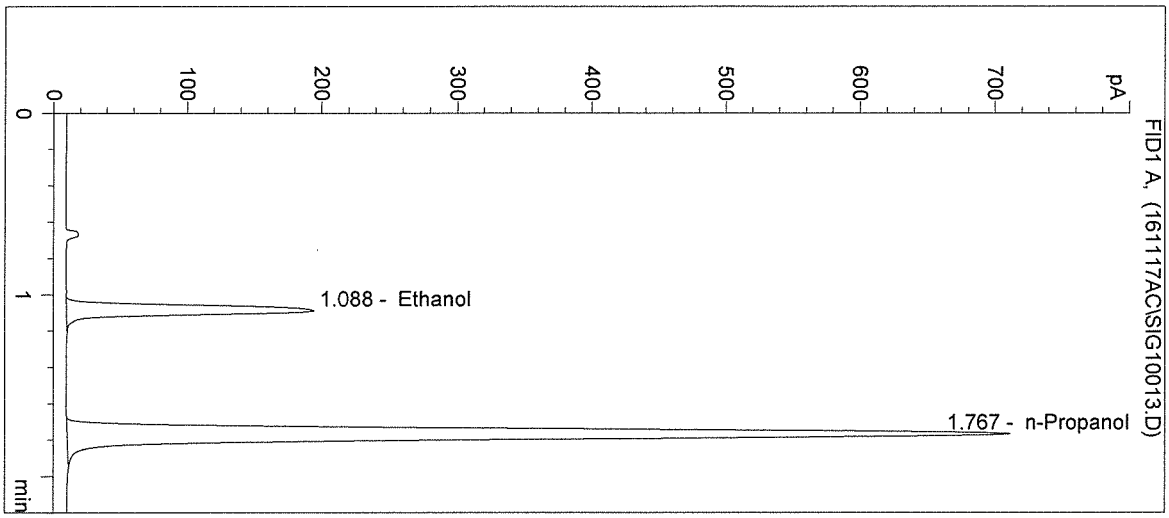
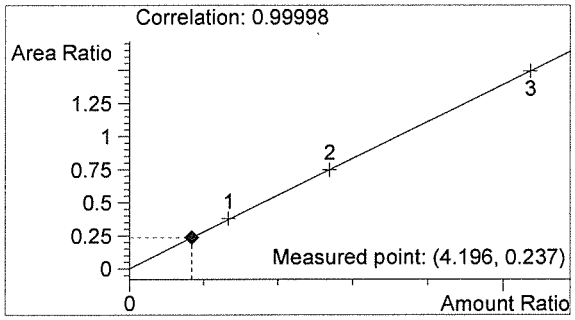
Inj. Date: 11/17/2016 10:10:29 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #4
Operator: Amanda Chandler
Location: Vial 13

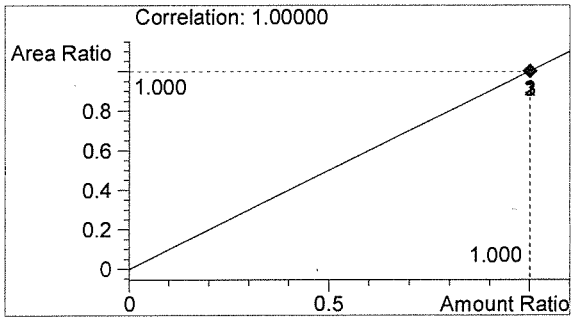



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 634 | 1.088 |
| 2 | n-Propanol | 2679 | 1.767 |




Ethanol 0.050 g/100mL

BLD




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117AC\SIG10013.D

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

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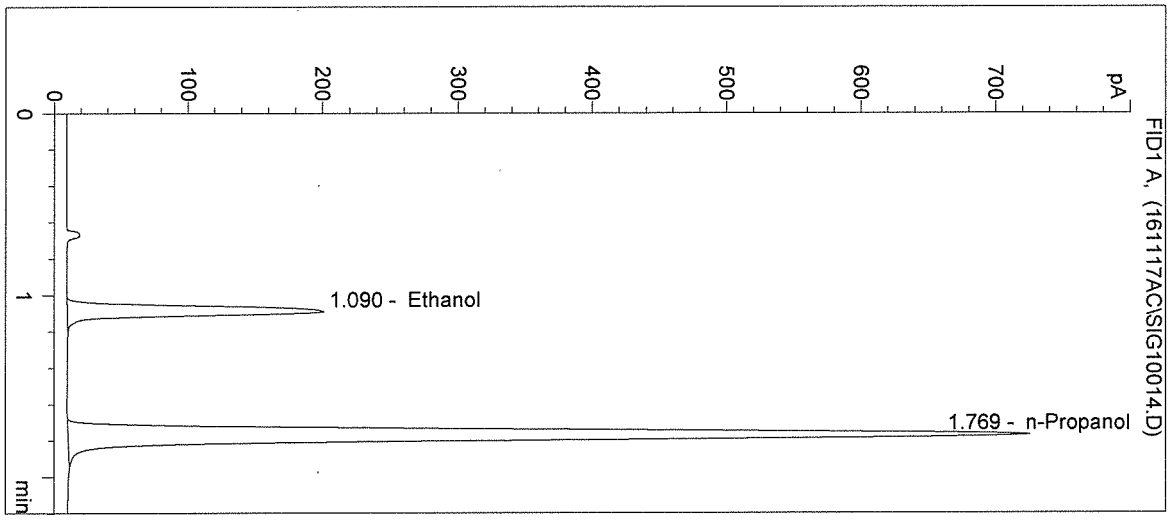
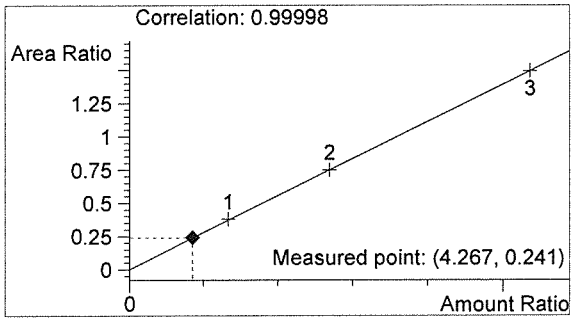
Inj. Date: 11/17/2016 10:13:42 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #5
Operator: Amanda Chandler
Location: Vial 14

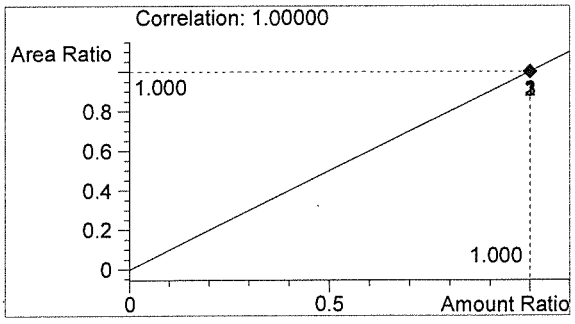



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 661 | 1.090 |
| 2 | n-Propanol | 2749 | 1.769 |




Ethanol 0.051 g/100mL

BLO




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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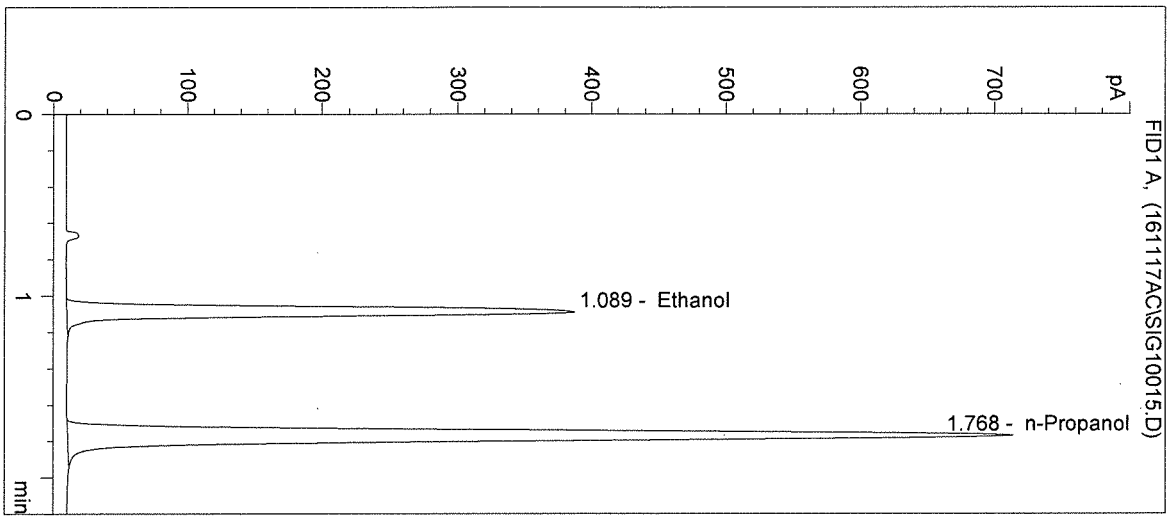
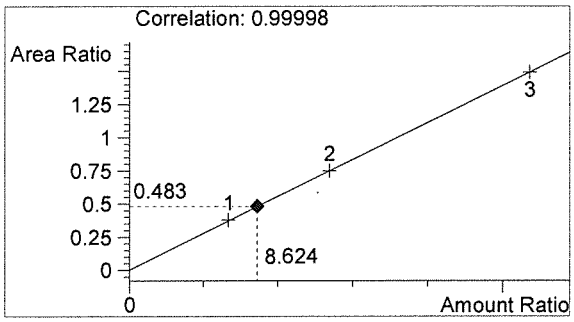
Inj. Date: 11/17/2016 10:16:56 AM  Sample Name: 0.10 CTRL
Instrument: HSGC#1  Operator: Amanda Chandler
Column: DB-ALC1  Location: Vial 15
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

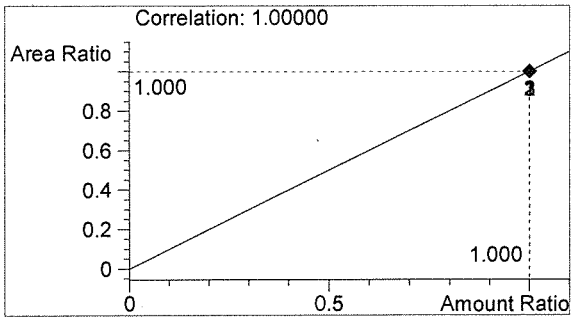



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1304 | 1.089 |
| 2 | n-Propanol | 2703 | 1.768 |




Ethanol 0.103 g/100mL

BWO




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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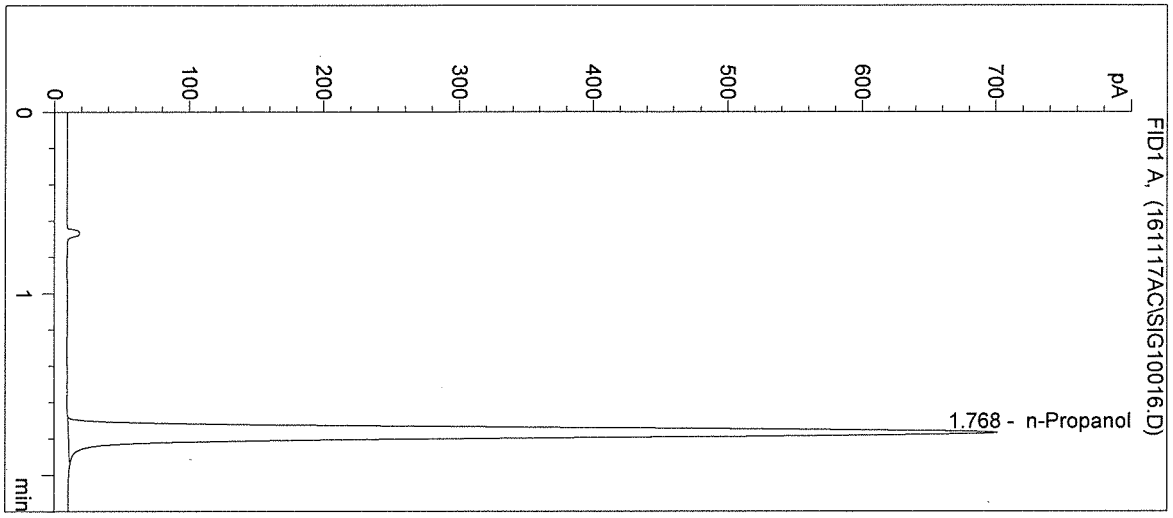
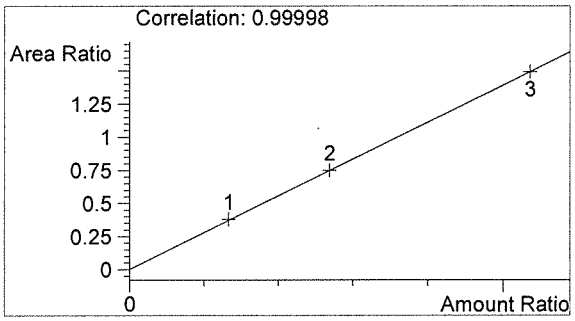
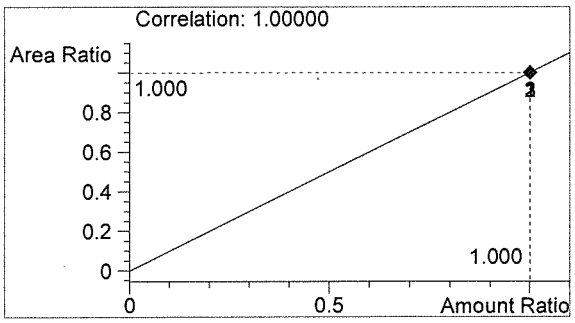
Inj. Date: 11/17/2016 10:20:09 AM  Sample Name: NEG CTRL
Instrument: HSGC#1  Operator: Amanda Chandler
Column: DB-ALC1  Location: Vial 16
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2636 | 1.768 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Sequence: C:\HPCHEM\1\SEQUENCE\ACQAP1.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: | 161117A2 |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
CAL 1 (0.079g/100mL) - LOT# E0916-01 - EXP 3/15/2017
CAL 2 (0.158g/100mL) - LOT# E0916-02 - EXP 3/15/2017
CAL 3 (0.316g/100mL) - LOT# E0916-03 - EXP 3/15/2017

n-Propanol ISTD - LOT# P0916 - 12/21/2016

CTRL 1 (0.04g/100mL) - LOT# FN12181501 - EXP 12/2020
CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
CTRL 3 (0.20g/100mL) - LOT# FN08101505 - EXP 2/2021

Calibrators and controls filed with 16047
Dilutor #1

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 | QAP 16047 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | QAP 16047 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | QAP 16047 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | QAP 16047 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | QAP 16047 #5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

16047
BWO 11.23.16

Calibration Part:

Sequence: C:\HPCHEM\1\SEQUENCE\ACQAP1.S

| 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!

16047
BWO 11-23-16

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

## Calibration Table

Calib. Data Modified : Thursday, November 17, 2016 1:26:56 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 |
|---|---|---|---|---|---|---|---|---|
| 1.084 | 1 | 1 | 8.00100e-2 | 971.14136 | 8.23876e-5 | 1 | | Ethanol |
| | | 2 | 1.61200e-1 | 1956.64136 | 8.23861e-5 | | | |
| | | 3 | 3.21790e-1 | 3848.39673 | 8.36166e-5 | | | |
| 1.763 | 1 | 1 | 1.20000e-2 | 2615.65186 | 4.58777e-6 | I1 | | n-Propanol |
| | | 2 | 1.20000e-2 | 2656.66675 | 4.51694e-6 | | | |
| | | 3 | 1.20000e-2 | 2608.21118 | 4.60085e-6 | | | |

## Peak Sum Table

***No Entries in table***

16047
BLW 11-23-16

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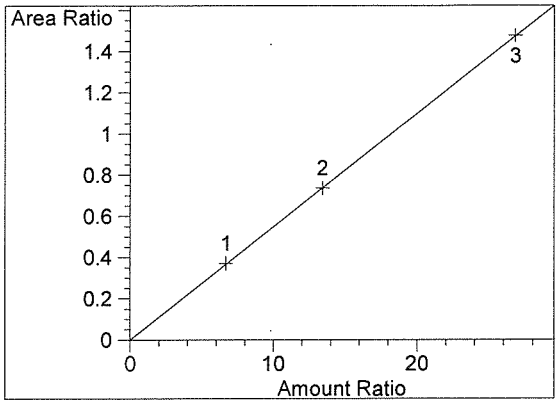
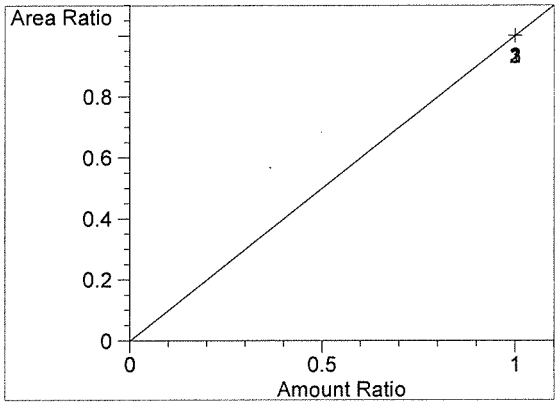
Calibration Curves

==========




Ethanol at exp. RT: 1.084
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 0.00345
Formula: y = mx + b
m: 5.49550e-2
b: 1.24252e-3
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 1.763
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

==========

16047
BWO 11-23-16

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2203 Airport Way S Seattle, WA 98134

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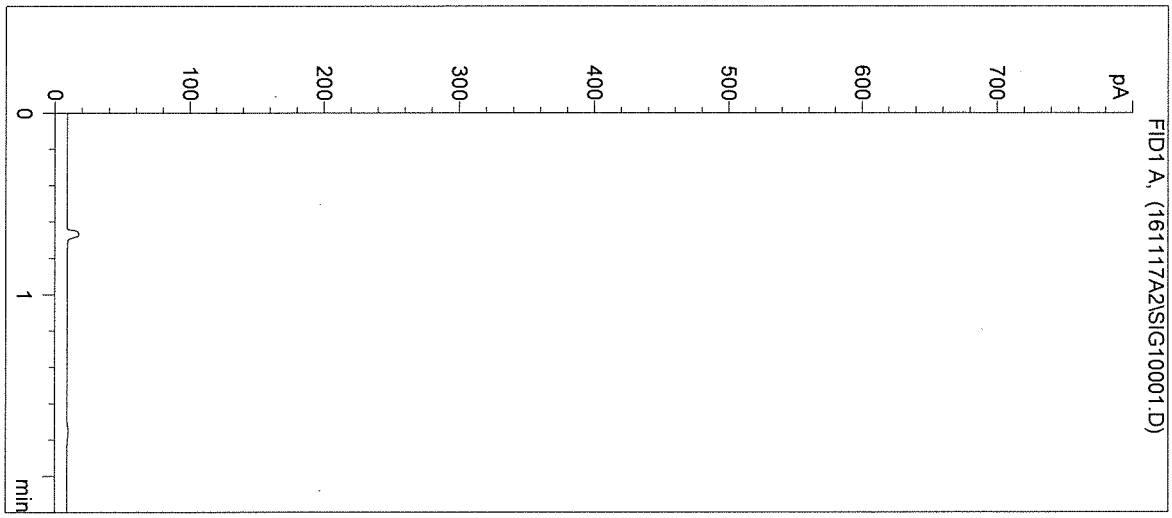
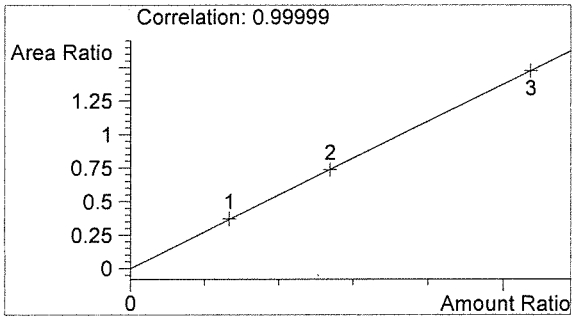
Inj. Date: 11/17/2016 1:14:52 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

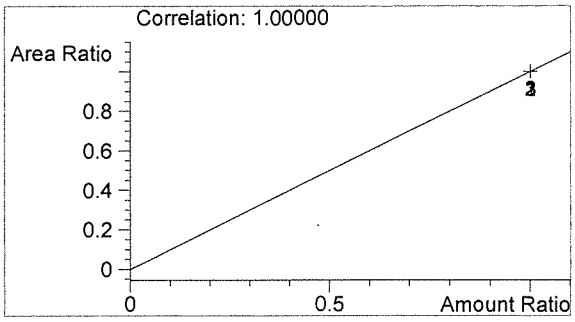



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |




Ethanol 0.000 g/100mL

BWO




n-Propanol 0.000 g/100mL

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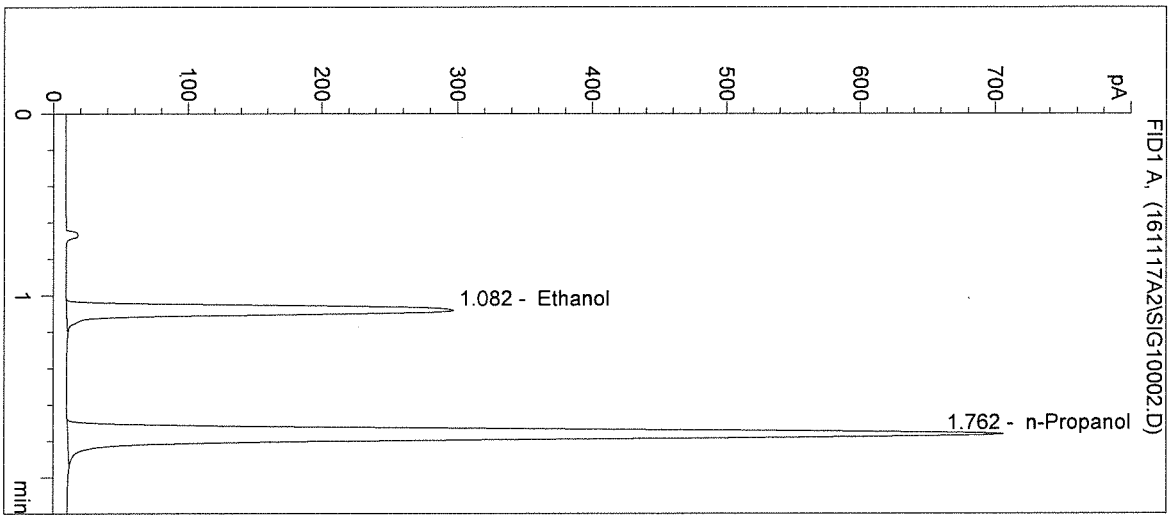
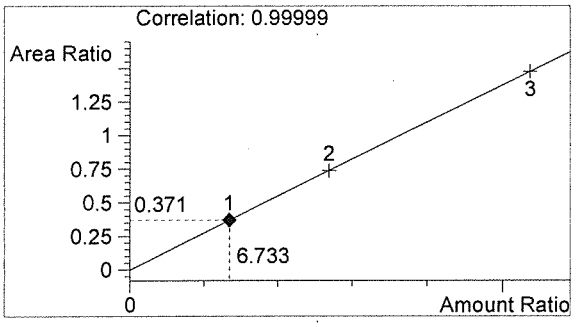
Inj. Date: 11/17/2016 1:18:09 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

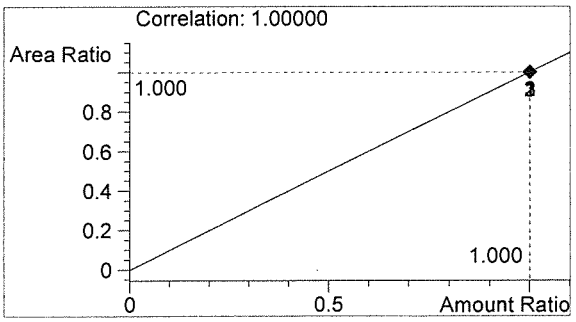



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 971 | 1.082 |
| 2 | n-Propanol | 2616 | 1.762 |




Ethanol 0.081 g/100mL

RLW




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10002.D

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2203 Airport Way S Seattle, WA 98134

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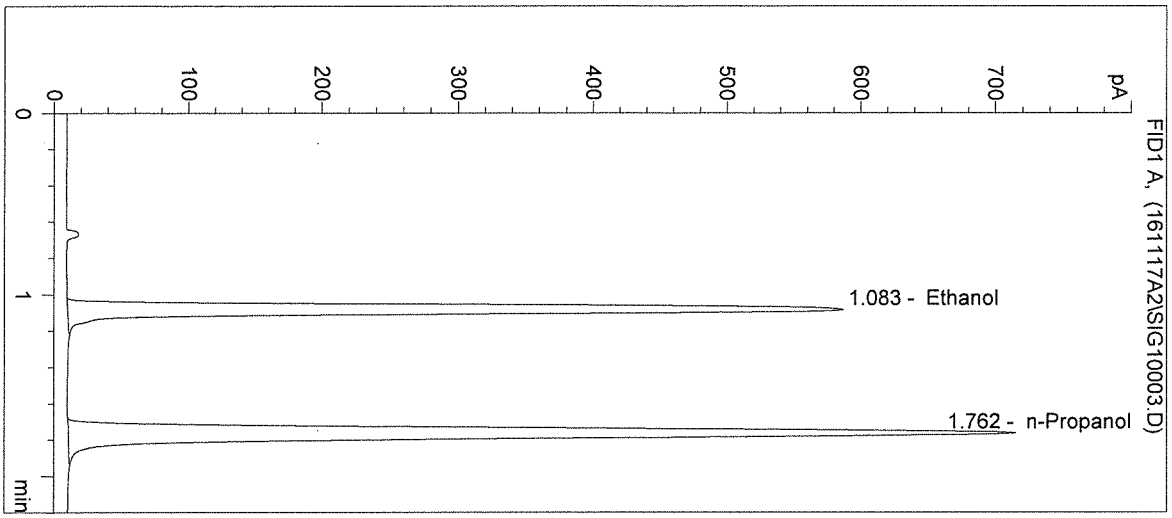
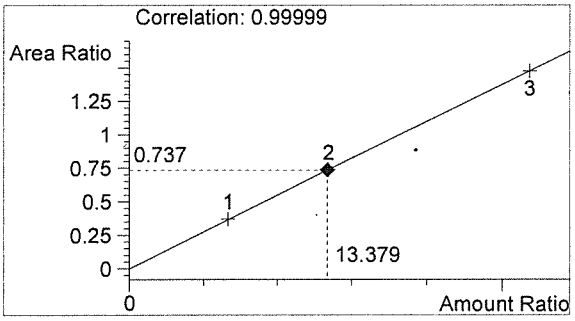
Inj. Date: 11/17/2016 1:21:27 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

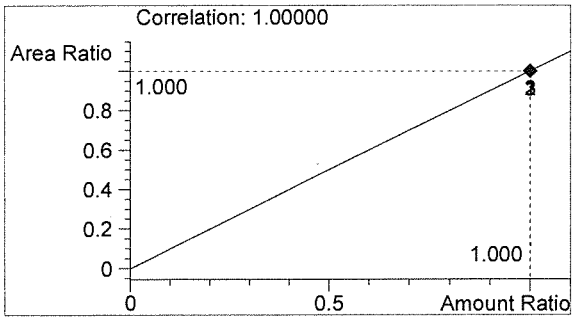



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1957 | 1.083 |
| 2 | n-Propanol | 2657 | 1.762 |




Ethanol 0.161 g/100mL

BWO




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10003.D

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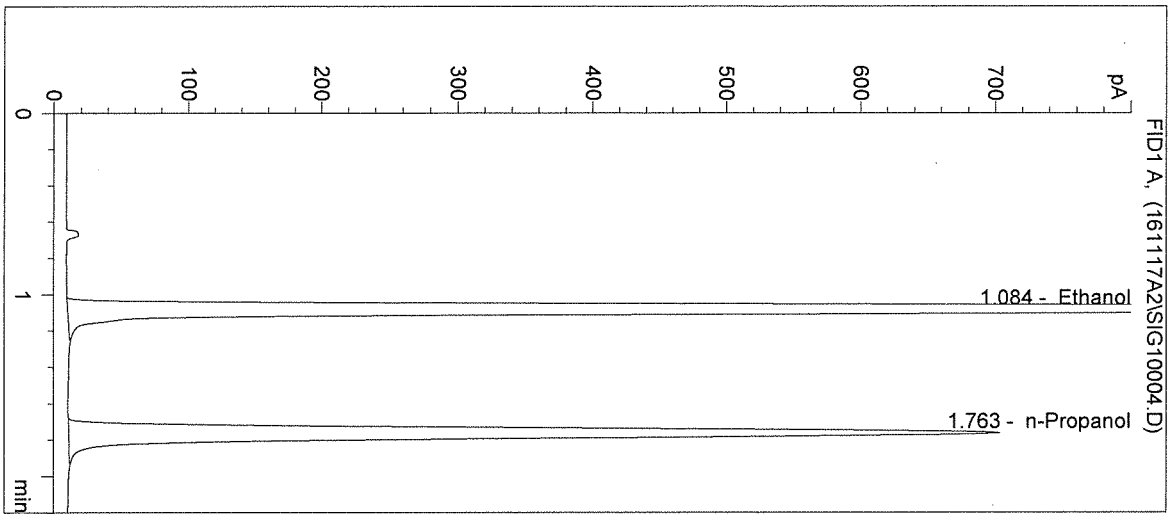
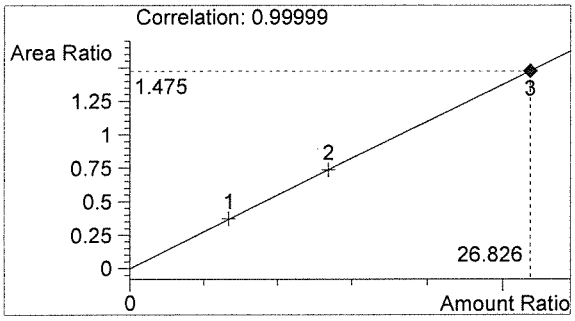
Inj. Date: 11/17/2016 1:24:42 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

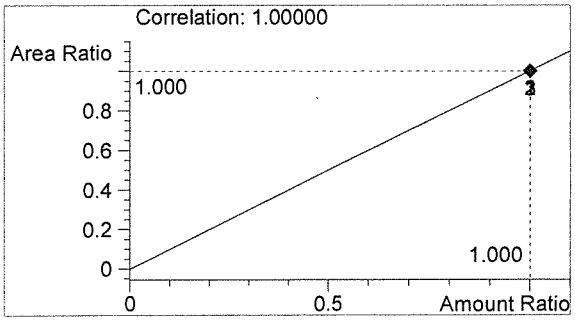



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 3848 | 1.084 |
| 2 | n-Propanol | 2608 | 1.763 |




Ethanol 0.322 g/100mL

RWO




n-Propanol 0.012 g/100mL

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2203 Airport Way S Seattle, WA 98134

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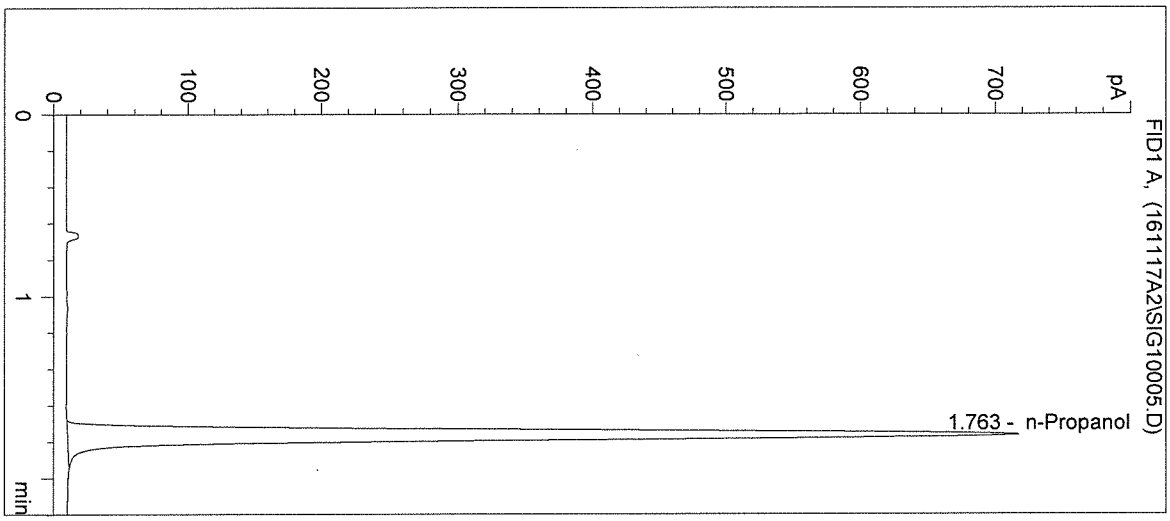
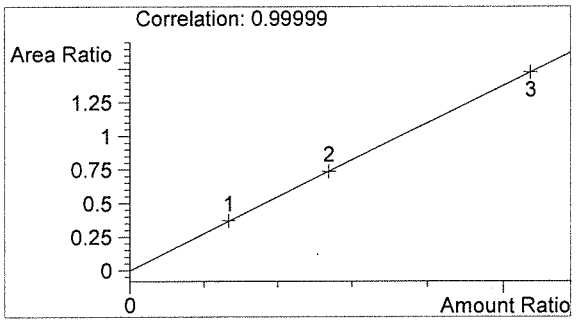
Inj. Date: 11/17/2016 1:27:56 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

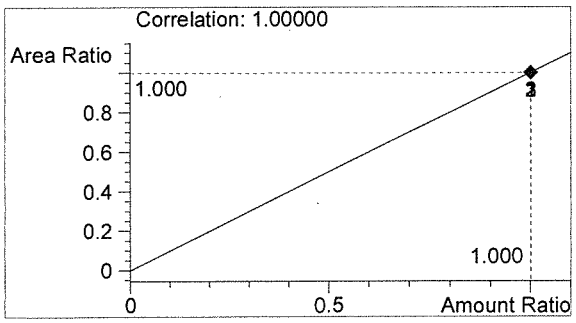



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2675 | 1.763 |




Ethanol 0.000 g/100mL

BLEO




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10005.D

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2203 Airport Way S Seattle, WA 98134

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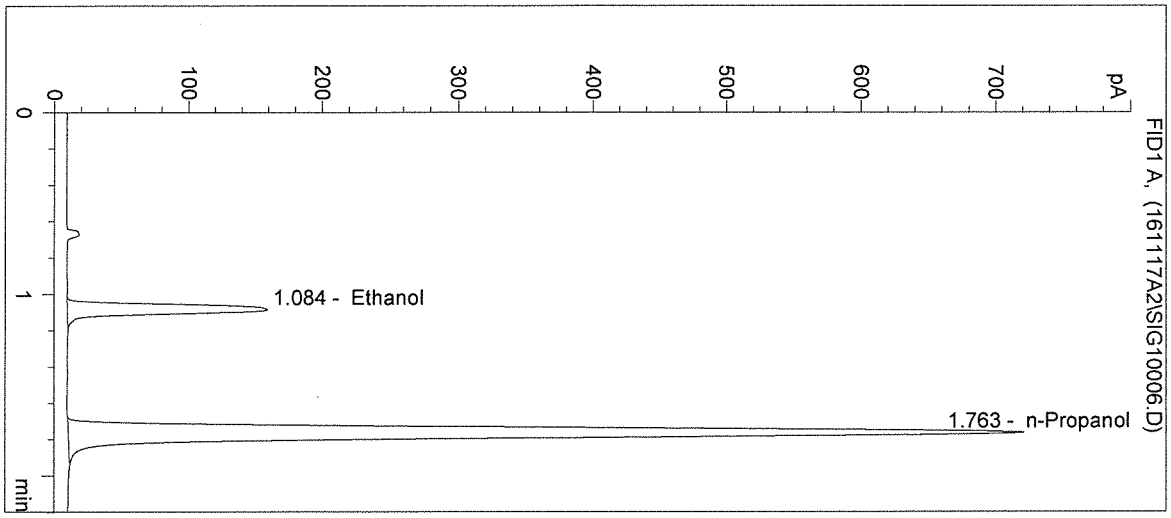
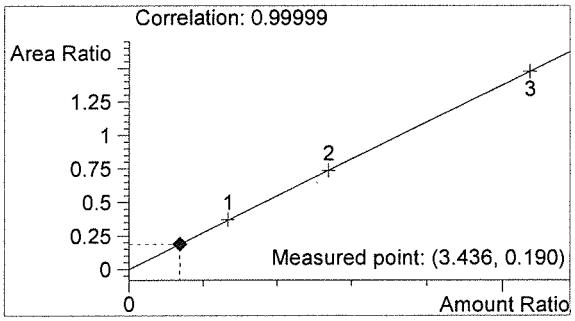
Inj. Date: 11/17/2016 1:31:09 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

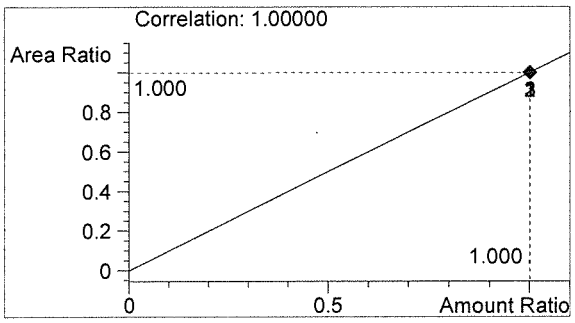



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 509 | 1.084 |
| 2 | n-Propanol | 2680 | 1.763 |




Ethanol 0.041 g/100mL

BLO




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10006.D

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2203 Airport Way S Seattle, WA 98134

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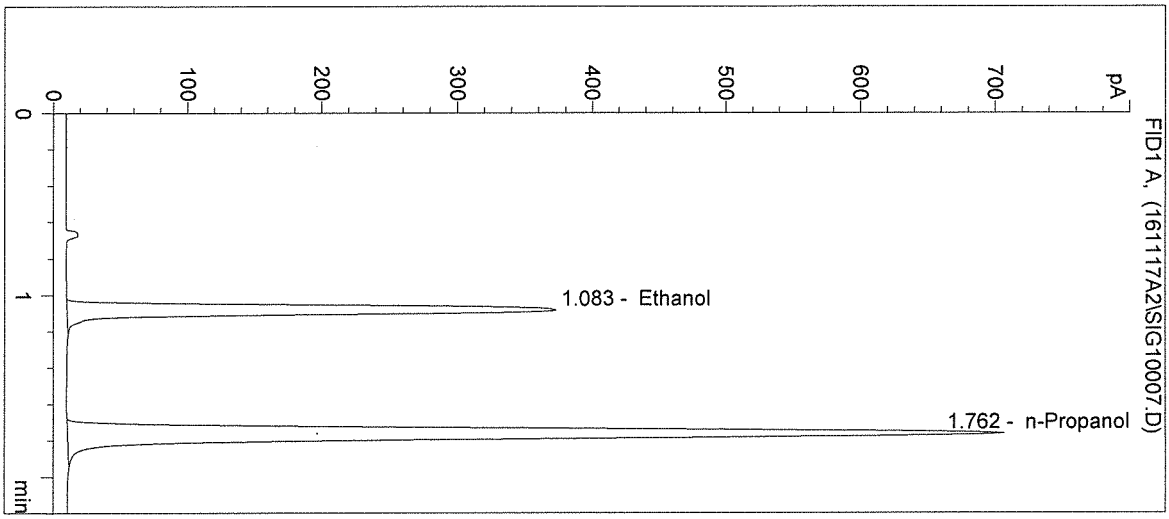
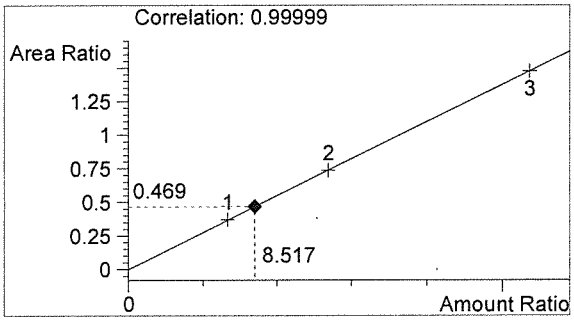
Inj. Date: 11/17/2016 1:34:22 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

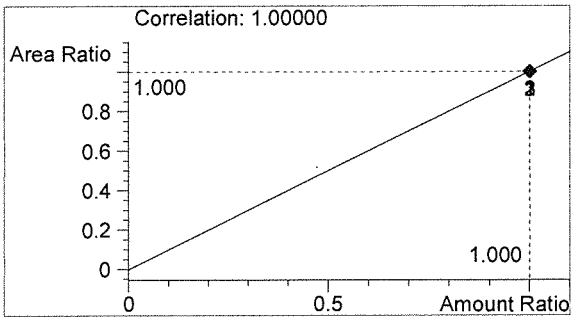



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1232 | 1.083 |
| 2 | n-Propanol | 2624 | 1.762 |




Ethanol 0.102 g/100mL

RLW




n-Propanol 0.012 g/100mL

---

Data File: C:\HPCHEM\1\DATA\161117A2\SIG10007.D

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2203 Airport Way S Seattle, WA 98134

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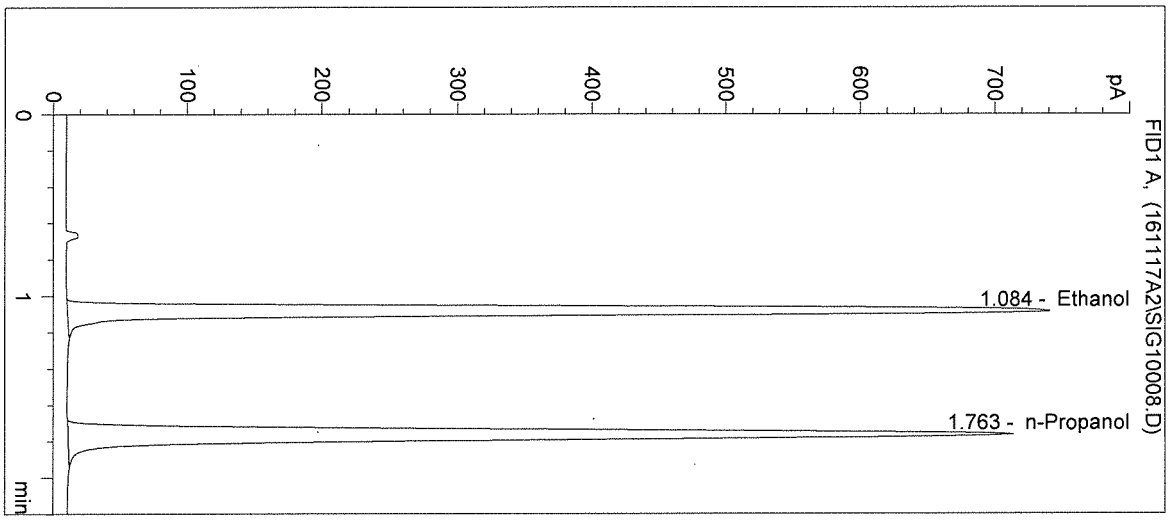
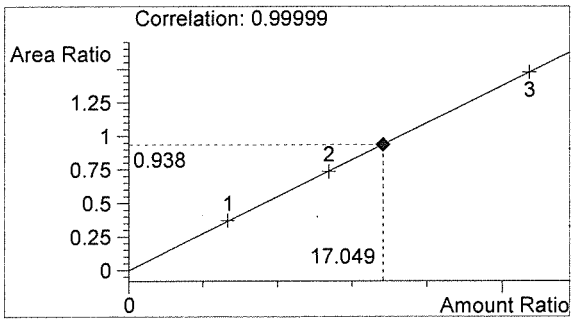
Inj. Date: 11/17/2016 1:37:35 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

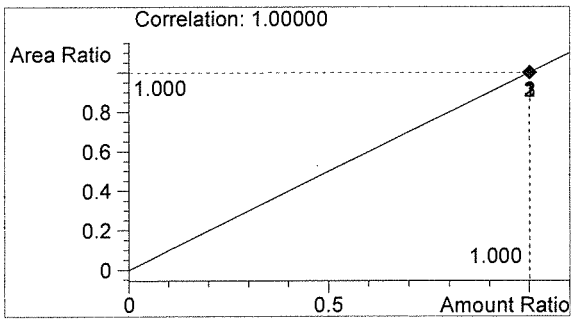



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2487 | 1.084 |
| 2 | n-Propanol | 2651 | 1.763 |




Ethanol 0.205 g/100mL

BLW




n-Propanol 0.012 g/100mL

---

Data File: C:\HPCHEM\1\DATA\161117A2\SIG10008.D

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

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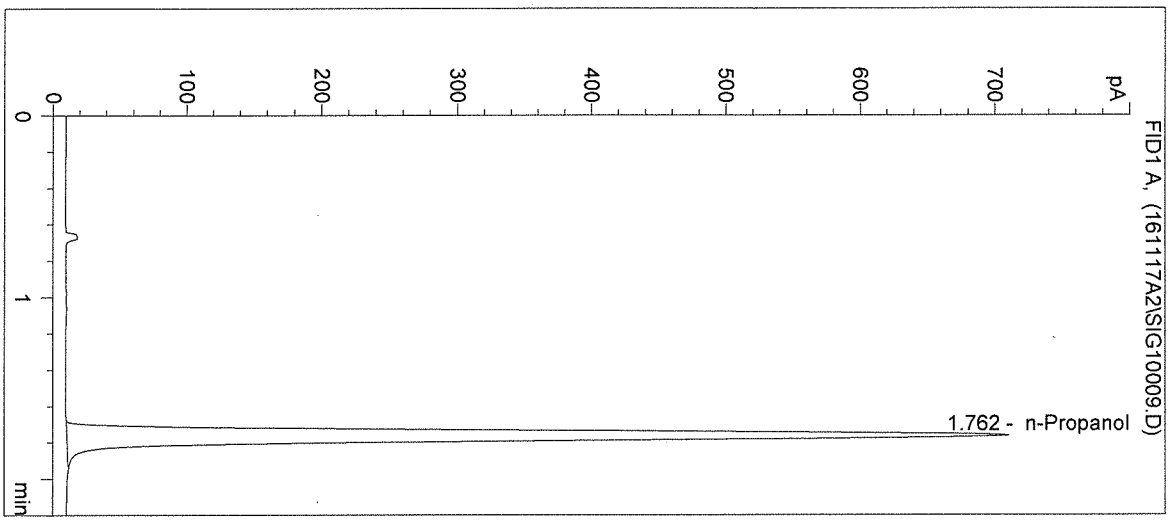
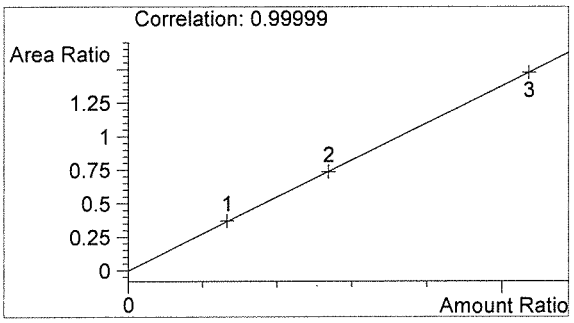
Inj. Date: 11/17/2016 1:40:49 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

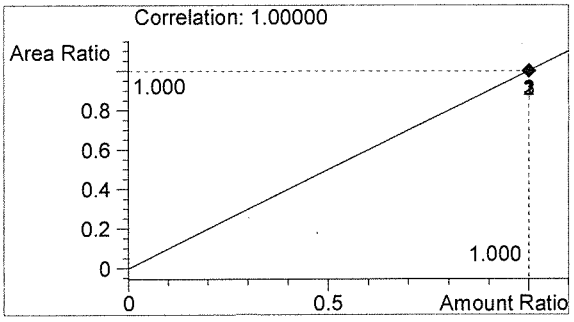



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2642 | 1.762 |




Ethanol 0.000 g/100mL

BLO




n-Propanol 0.012 g/100mL

---

Data File: C:\HPCHEM\1\DATA\161117A2\SIG10009.D

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

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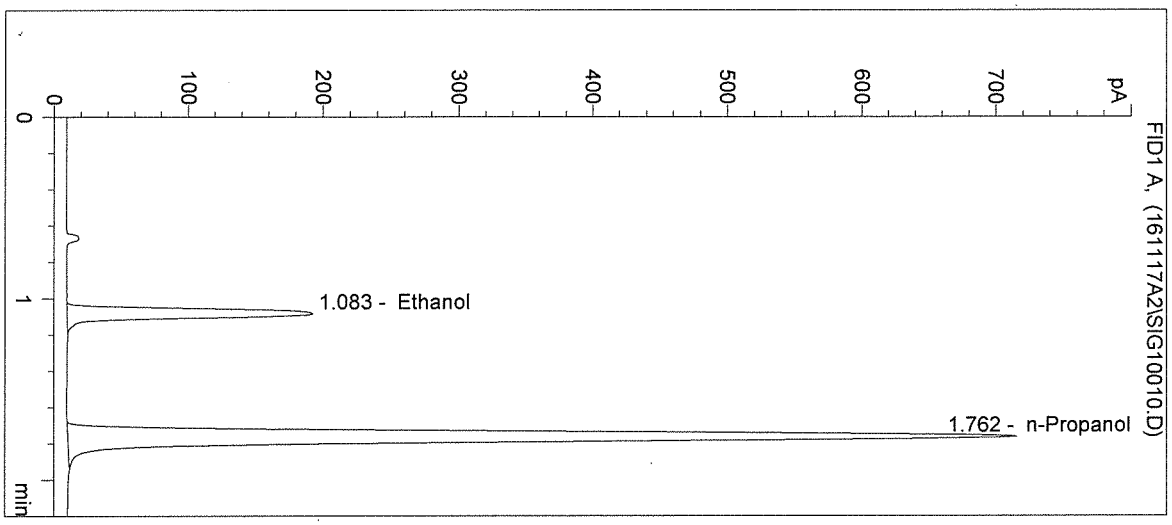
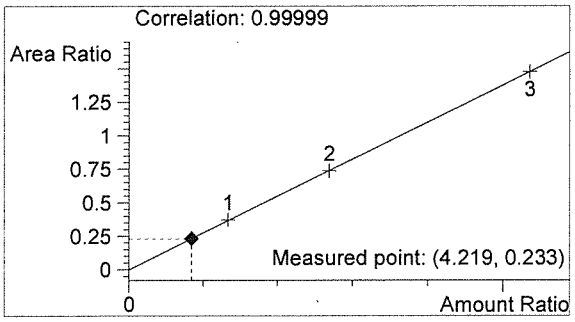
Inj. Date: 11/17/2016 1:44:02 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #1
Operator: Andrew Gingras
Location: Vial 10

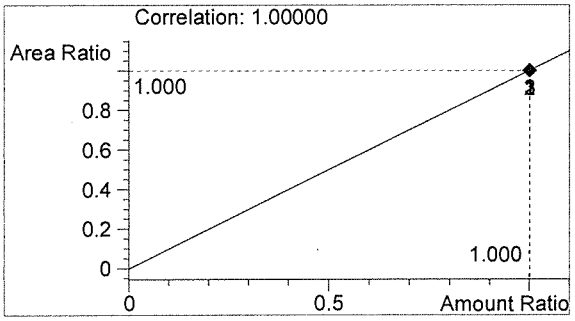



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 620 | 1.083 |
| 2 | n-Propanol | 2659 | 1.762 |




Ethanol 0.051 g/100mL

RWO




n-Propanol 0.012 g/100mL

---

Data File: C:\HPCHEM\1\DATA\161117A2\SIG10010.D

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2203 Airport Way S Seattle, WA 98134

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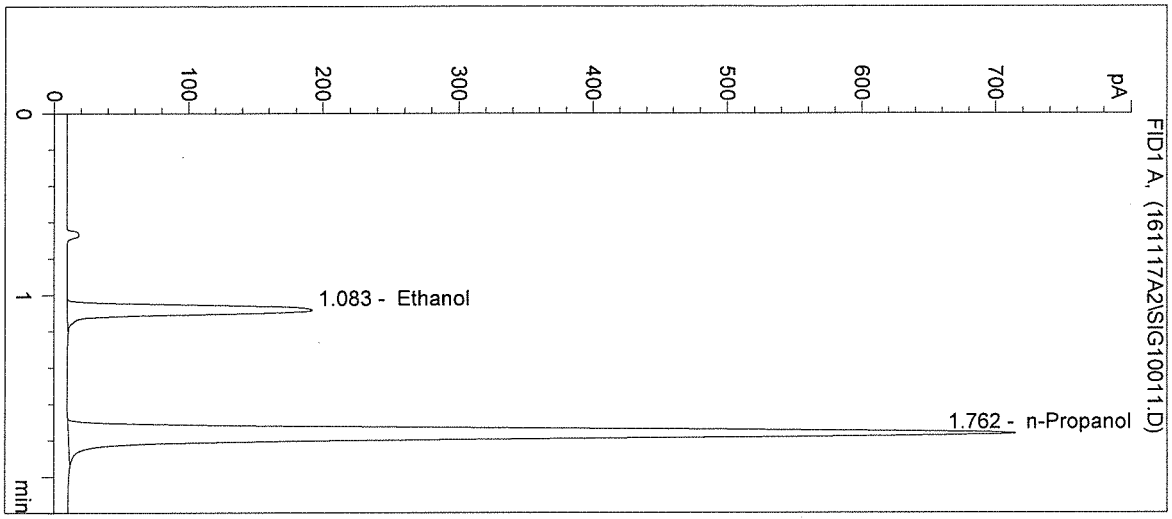
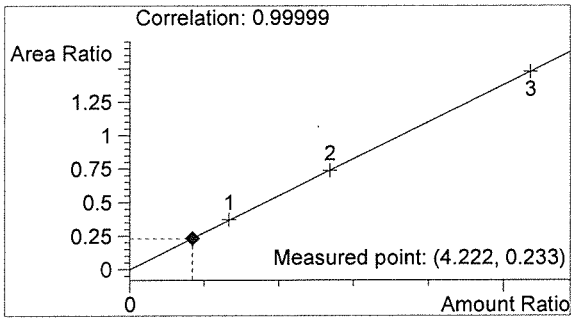
Inj. Date: 11/17/2016 1:47:15 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #2
Operator: Andrew Gingras
Location: Vial 11

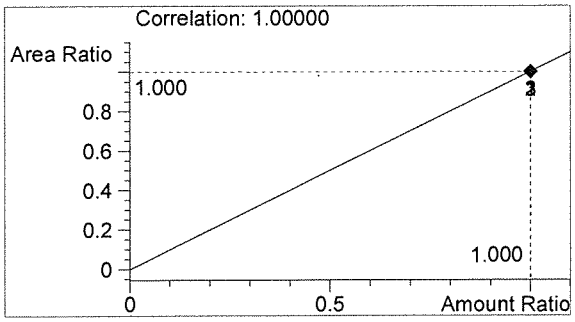



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 619 | 1.083 |
| 2 | n-Propanol | 2655 | 1.762 |




Ethanol 0.051 g/100mL

BUO




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10011.D

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2203 Airport Way S Seattle, WA 98134

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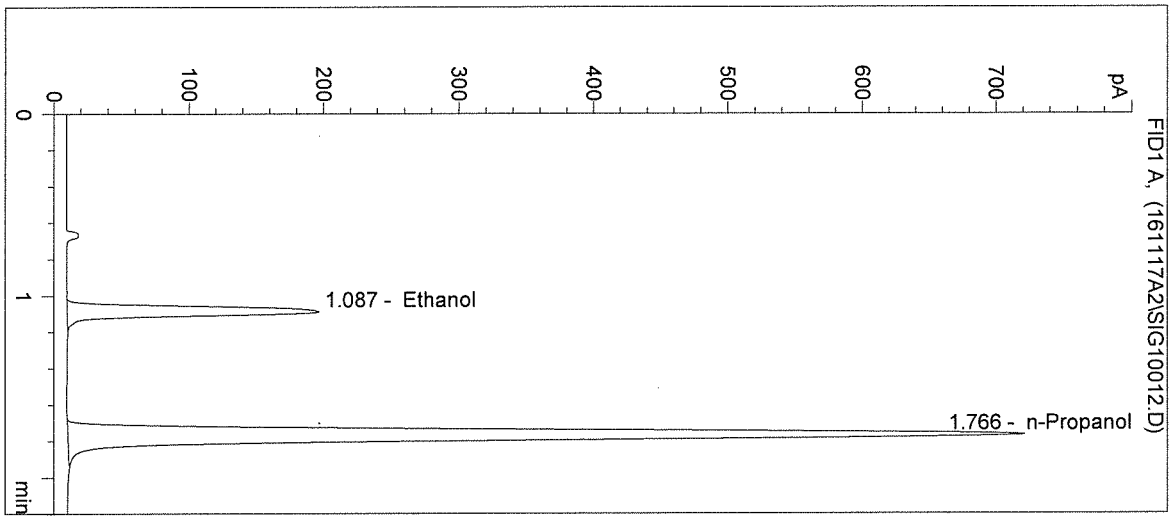
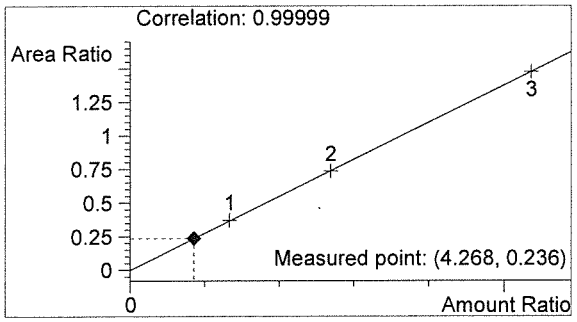
Inj. Date: 11/17/2016 1:50:29 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #3
Operator: Andrew Gingras
Location: Vial 12

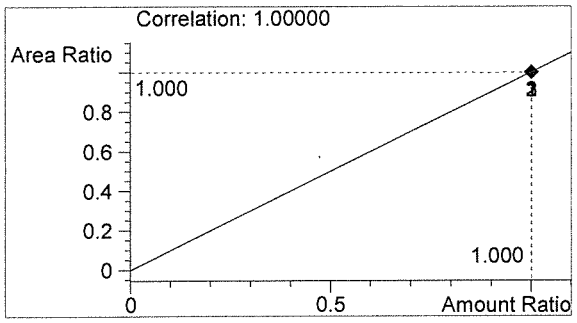



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 636 | 1.087 |
| 2 | n-Propanol | 2698 | 1.766 |




Ethanol 0.051 g/100mL

BWO




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10012.D

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

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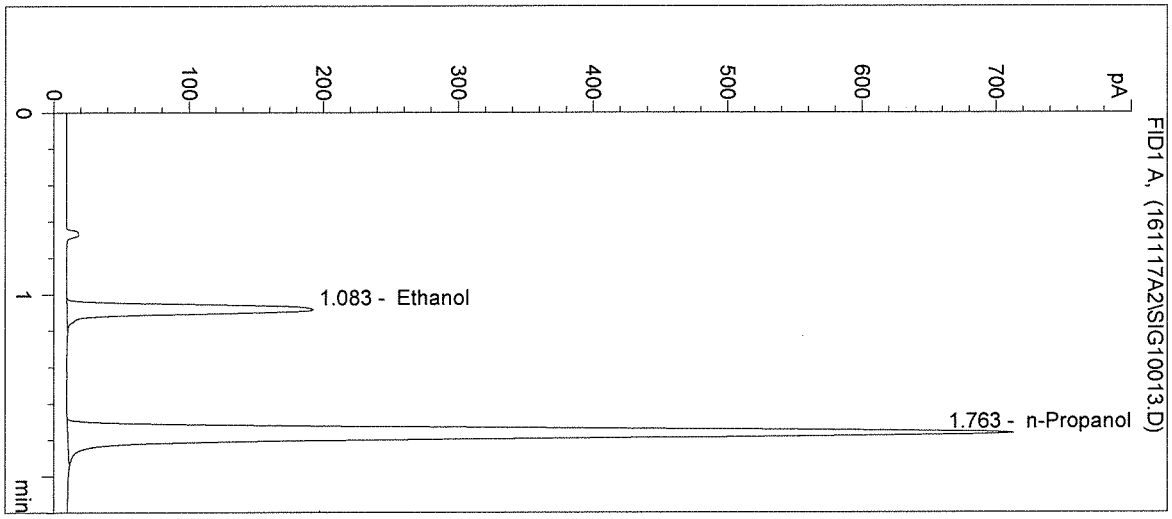
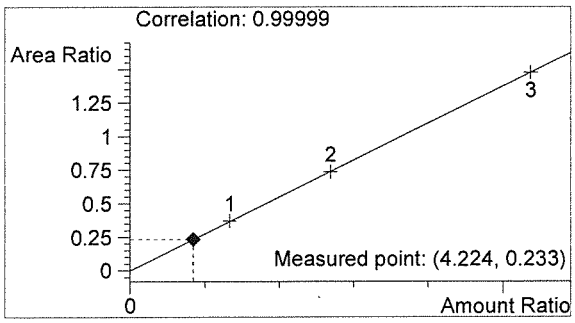
Inj. Date: 11/17/2016 1:53:42 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #4
Operator: Andrew Gingras
Location: Vial 13

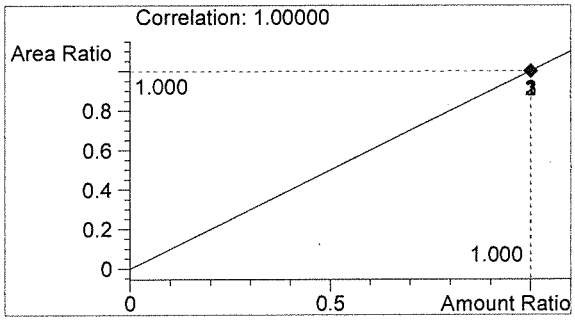



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 618 | 1.083 |
| 2 | n-Propanol | 2648 | 1.763 |




Ethanol 0.051 g/100mL

BWO




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\1\DATA\161117A2\SIG10013.D

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

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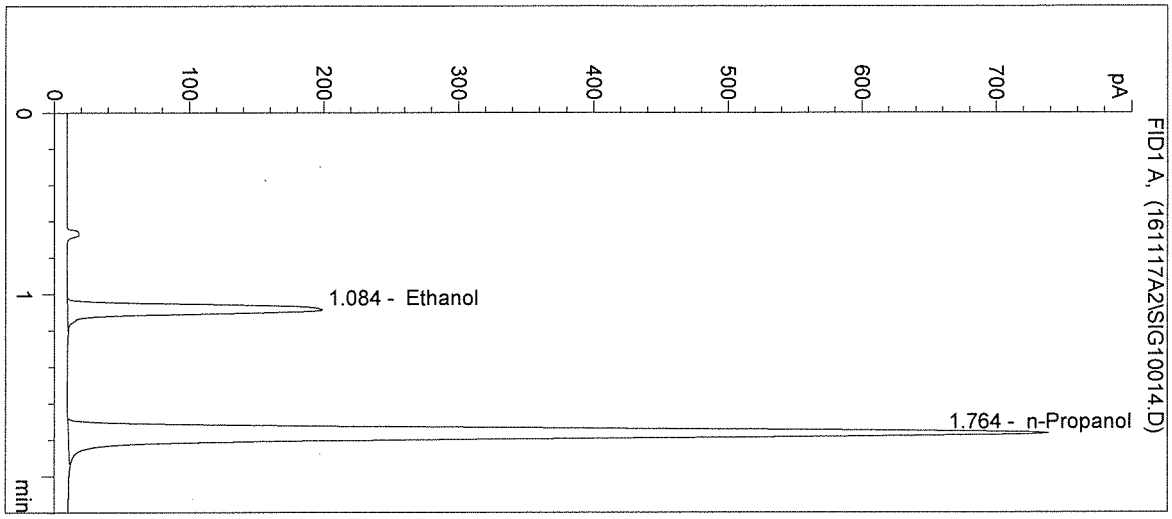
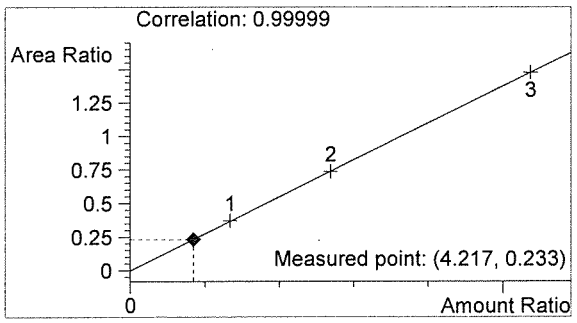
Inj. Date: 11/17/2016 1:56:56 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #5
Operator: Andrew Gingras
Location: Vial 14

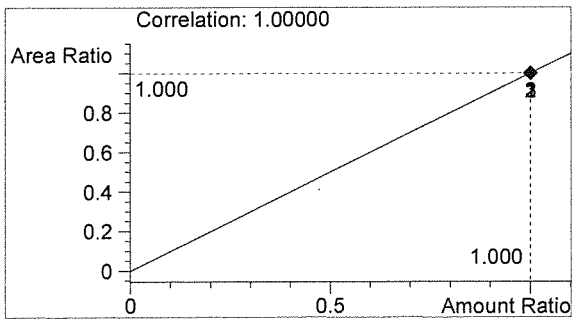



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 642 | 1.084 |
| 2 | n-Propanol | 2755 | 1.764 |




Ethanol 0.051 g/100mL

BLO




n-Propanol 0.012 g/100mL

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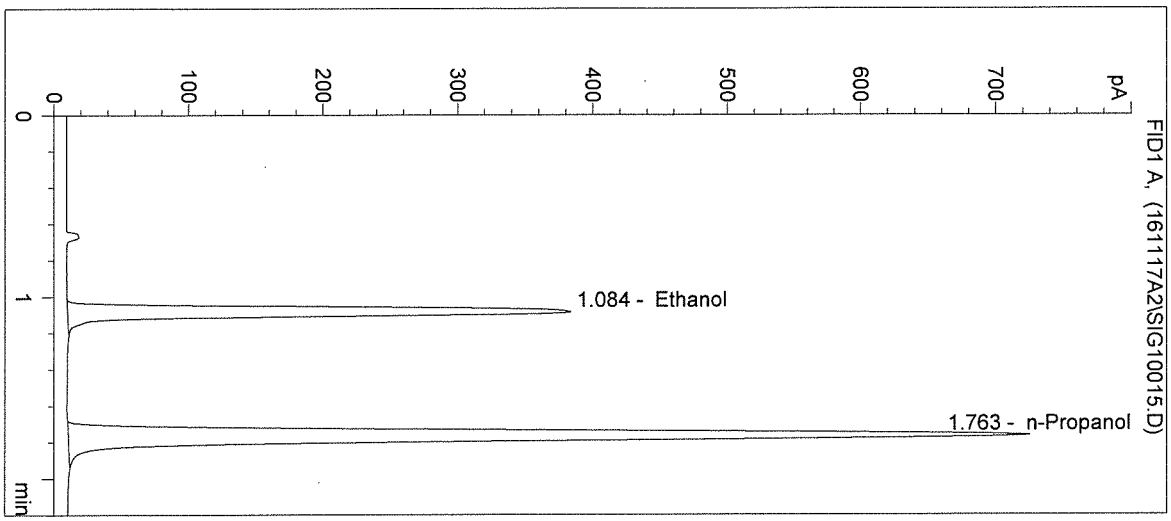
2203 Airport Way S Seattle, WA 98134

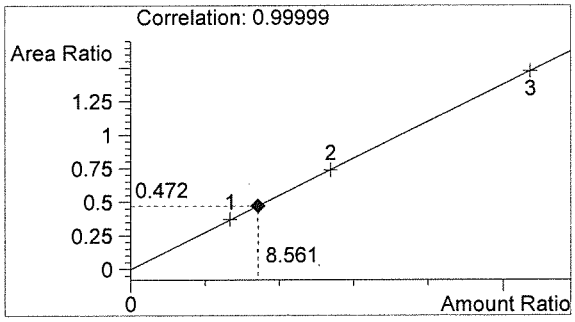
---

Inj. Date: 11/17/2016 2:00:09 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

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

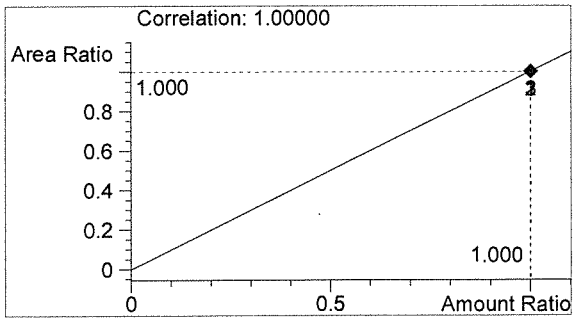



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1272 | 1.084 |
| 2 | n-Propanol | 2696 | 1.763 |




Ethanol 0.103 g/100mL

RWO




n-Propanol 0.012 g/100mL

JG

---

Data File: C:\HPCHEM\1\DATA\161117A2\SIG10015.D

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

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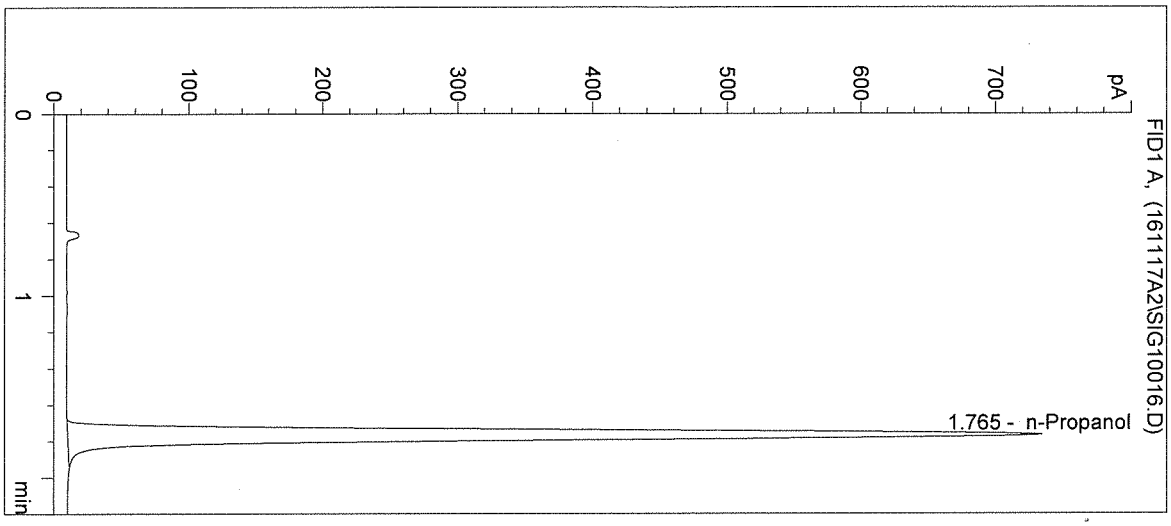
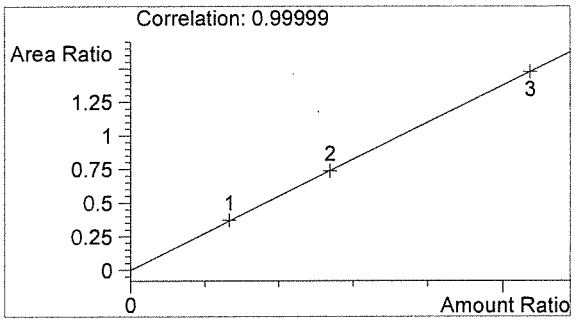
Inj. Date: 11/17/2016 2:03:22 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

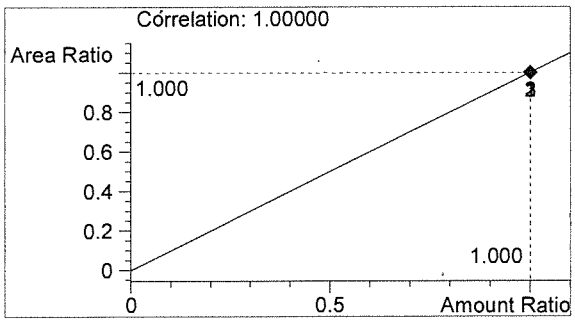
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 16




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2744 | 1.765 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

---

Sequence: C:\HPCHEM\1\SEQUENCE\RFQAP1.S

Sequence Parameters:

| | |
|---|---|
| Operator: | Rebecca Flaherty |
| 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: | 161118RF |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
CAL 1 (0.079g/100mL) - LOT# E0916-01 - EXP 3/15/2017
CAL 2 (0.158g/100mL) - LOT# E0916-02 - EXP 3/15/2017
CAL 3 (0.316g/100mL) - LOT# E0916-03 - EXP 3/15/2017

n-Propanol ISTD - LOT# P0916 - 12/21/2016

CTRL 1 (0.04g/100mL) - LOT# FN12181501 - EXP 12/2020
CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
CTRL 3 (0.20g/100mL) - LOT# FN08101505 - EXP 2/2021

Calibrators and controls filed with 16047
Dilutor #1

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 | QAP 16047 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | QAP 16047 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | QAP 16047 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | QAP 16047 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | QAP 16047 #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 | QAP 16048 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | QAP 16048 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | QAP 16048 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | QAP 16048 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | QAP 16048 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

16047
BWO 11.23.16

RL

Sequence: C:\HPCHEM\1\SEQUENCE\RFQAP1.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 24 | Vial 24 | QAP 16049 #1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | QAP 16049 #2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | QAP 16049 #3 | SIMALC1 | 1 | Sample | | |
| 27 | Vial 27 | QAP 16049 #4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | QAP 16049 #5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | 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!

16047
BLU 11.23.16

RF

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

## Calibration Table

Calib. Data Modified : Friday, November 18, 2016 9:40:27 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 |

16047
Bwo 11-23-16

Signal 1: FID1 A,

| RetTime [min] | Sig | Lvl | Amount [g/100mL] | Area | Amt/Area | Ref | Grp | Name |
|---|---|---|---|---|---|---|---|---|
| 1.084 | 1 | 1 | 8.00100e-2 | 975.35199 | 8.20319e-5 | | 1 | Ethanol |
| | | 2 | 1.61200e-1 | 1935.55811 | 8.32835e-5 | | | |
| | | 3 | 3.21790e-1 | 3853.61743 | 8.35034e-5 | | | |
| 1.763 | 1 | 1 | 1.20000e-2 | 2618.72510 | 4.58238e-6 | | I1 | n-Propanol |
| | | 2 | 1.20000e-2 | 2611.12671 | 4.59572e-6 | | | |
| | | 3 | 1.20000e-2 | 2602.38696 | 4.61115e-6 | | | |

## Peak Sum Table

***No Entries in table***

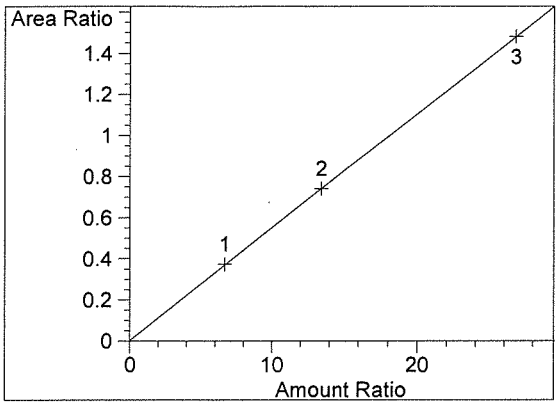
RL

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

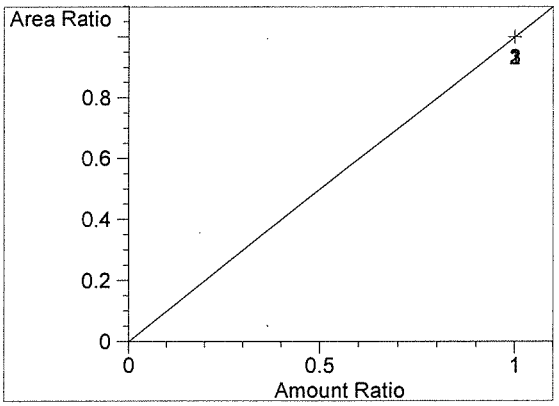
==========

Calibration Curves

==========




Ethanol at exp. RT: 1.084
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 0.00262
Formula: y = mx + b
m: 5.51640e-2
b: 1.60401e-3
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 1.763
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

==========

- 16047
BWO 11.23.16

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2203 Airport Way S Seattle, WA 98134

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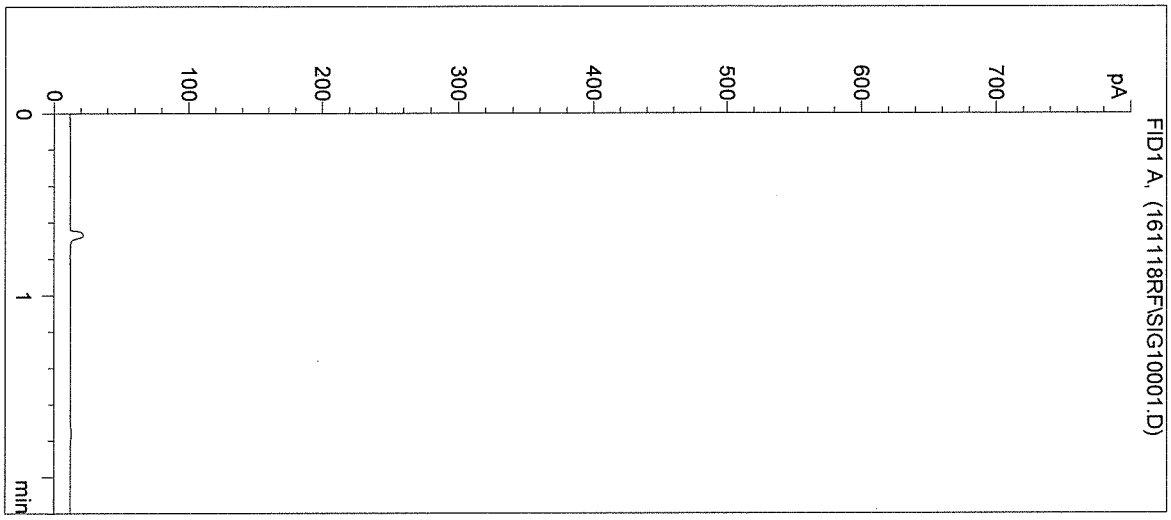
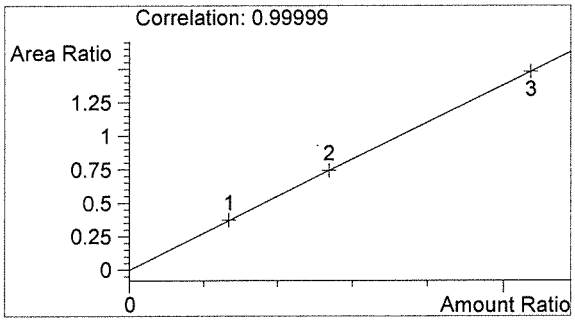
Inj. Date: 11/18/2016 9:28:23 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: BLANK
Operator: Rebecca Flaherty
Location: Vial 1

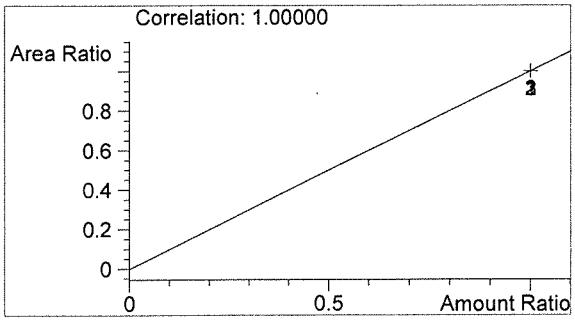



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |




Ethanol 0.000 g/100mL

BLO




n-Propanol 0.000 g/100mL

EG

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

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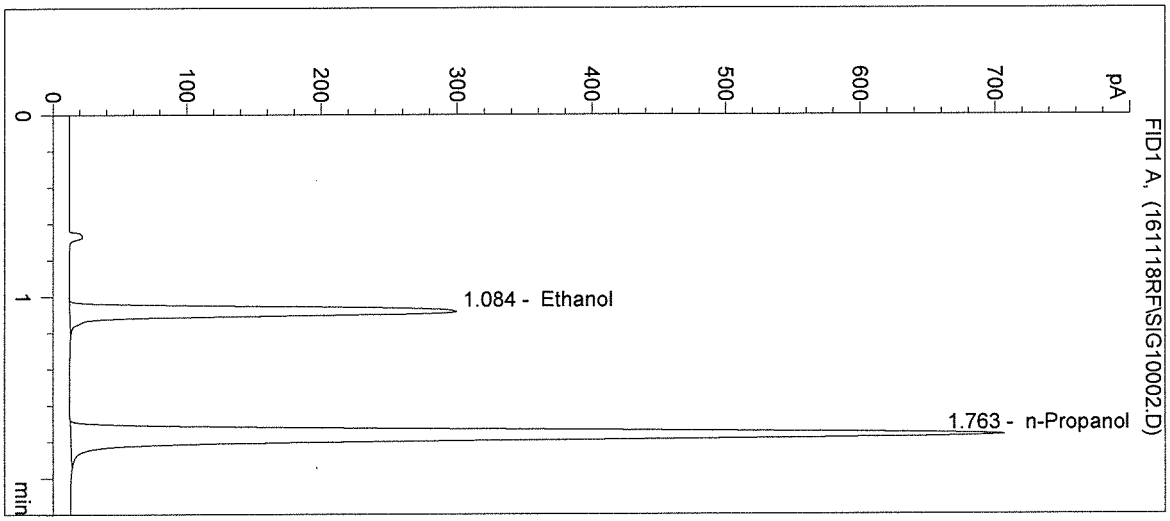
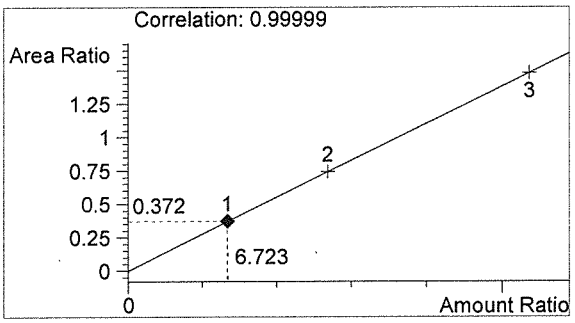
Inj. Date: 11/18/2016 9:31:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.079 CAL 1
Operator: Rebecca Flaherty
Location: Vial 2

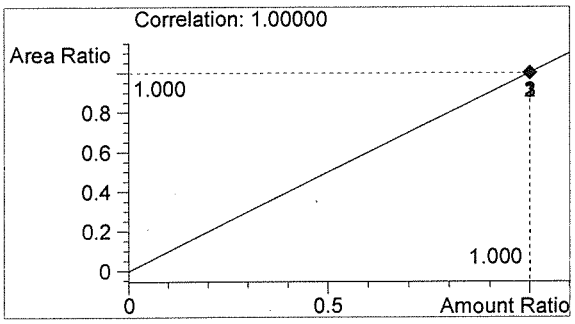



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 975 | 1.084 |
| 2 | n-Propanol | 2619 | 1.763 |




Ethanol 0.081 g/100mL

BWO




n-Propanol 0.012 g/100mL

EF

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Data File: C:\HPCHEM\1\DATA\161118RF\SIG10002.D

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2203 Airport Way S Seattle, WA 98134

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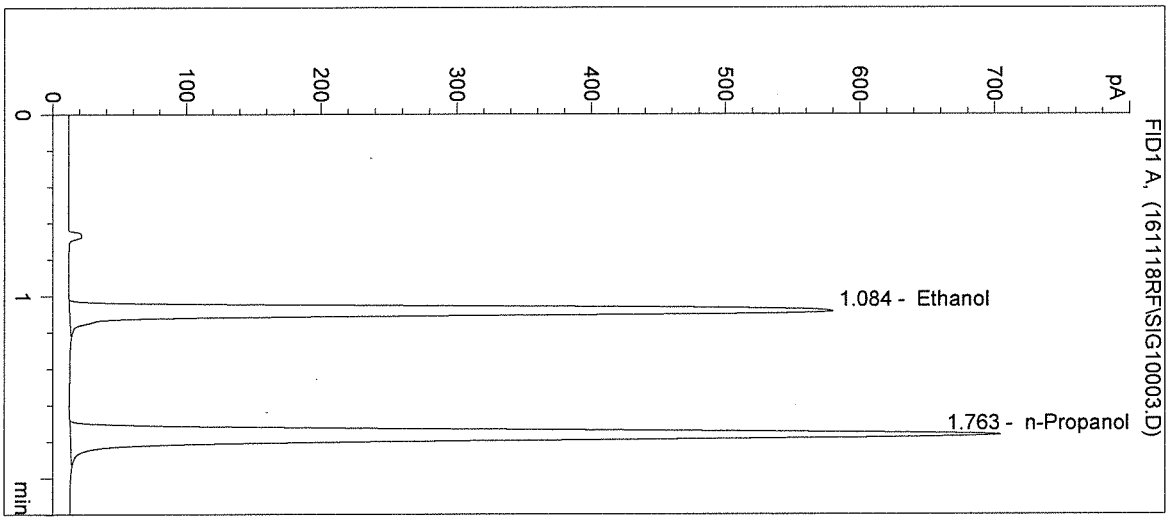
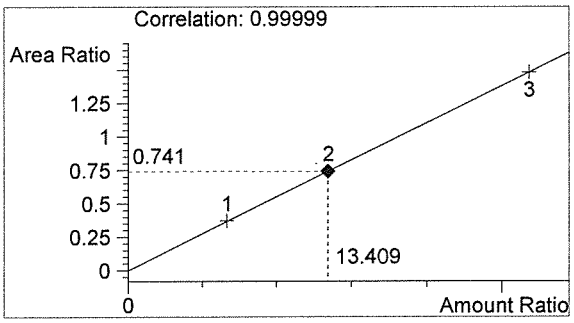
Inj. Date: 11/18/2016 9:34:57 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.158 CAL 2
Operator: Rebecca Flaherty
Location: Vial 3

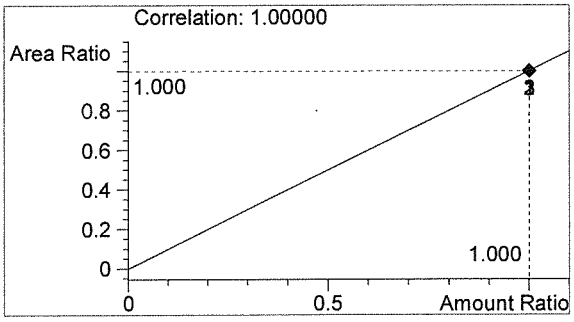



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1936 | 1.084 |
| 2 | n-Propanol | 2611 | 1.763 |




Ethanol 0.161 g/100mL

BWO




n-Propanol 0.012 g/100mL

EC

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

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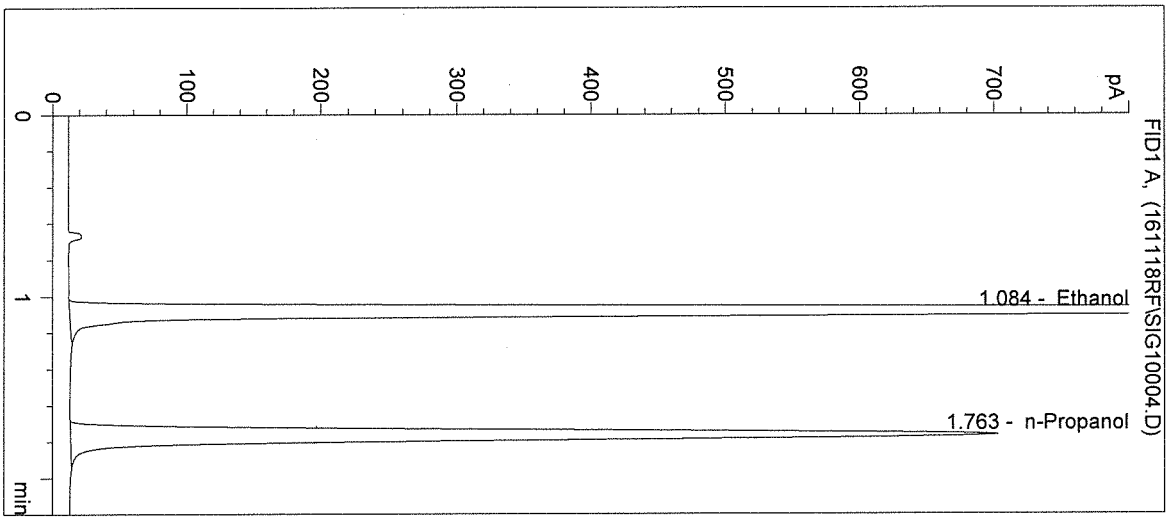
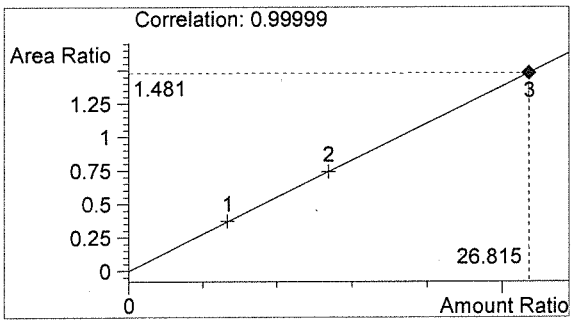
Inj. Date: 11/18/2016 9:38:14 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.316 CAL 3
Operator: Rebecca Flaherty
Location: Vial 4

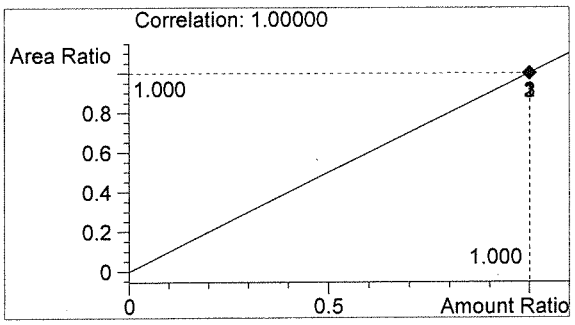



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 3854 | 1.084 |
| 2 | n-Propanol | 2602 | 1.763 |




Ethanol 0.322 g/100mL

BWO




n-Propanol 0.012 g/100mL

EF

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Data File: C:\HPCHEM\1\DATA\161118RF\SIG10004.D

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

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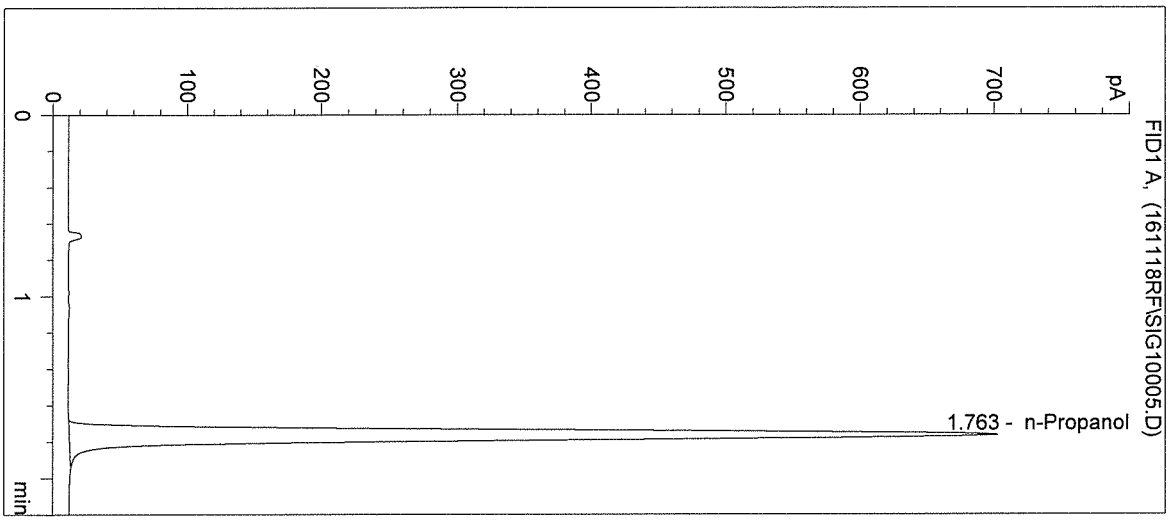
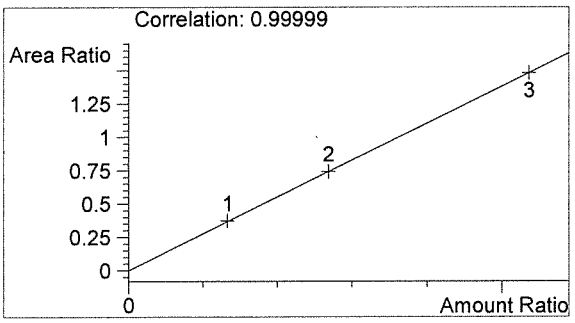
Inj. Date: 11/18/2016 9:41:27 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

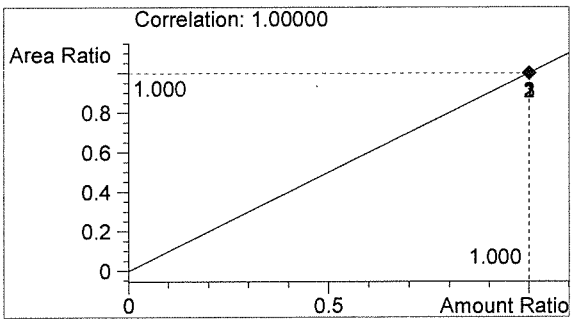
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 5




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2608 | 1.763 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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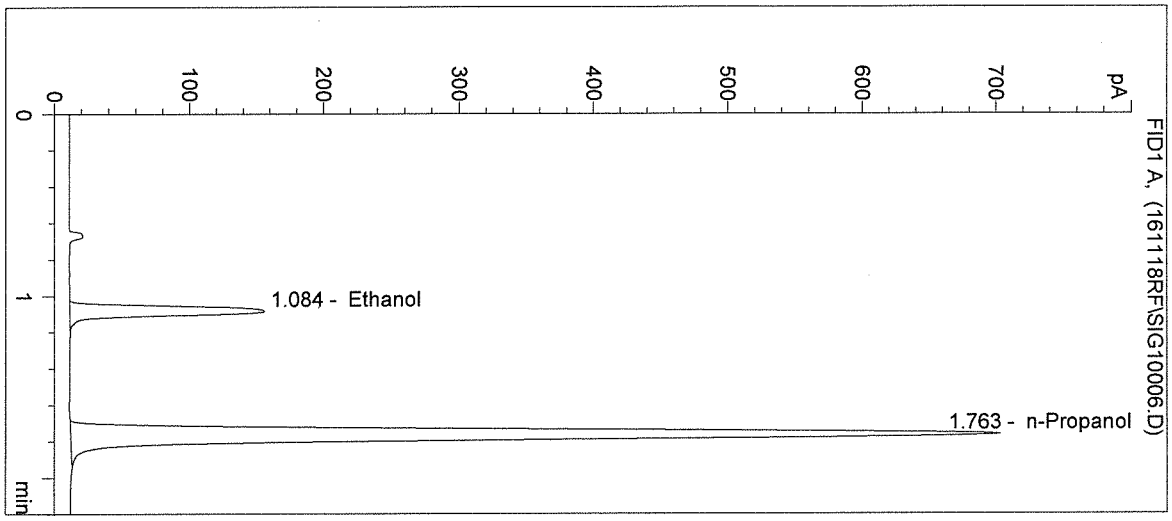
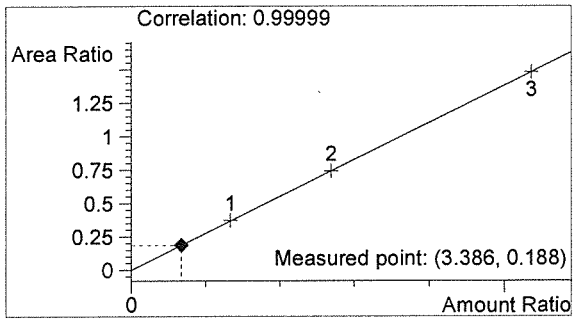
Inj. Date: 11/18/2016 9:44:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.04 CTRL
Operator: Rebecca Flaherty
Location: Vial 6

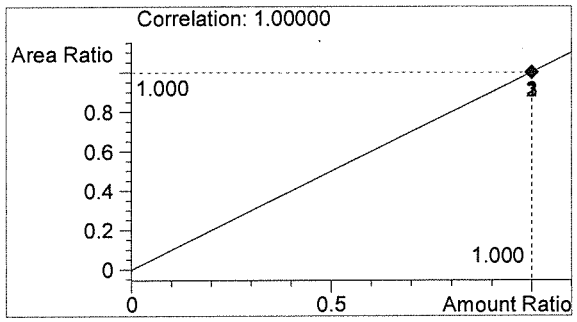



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 492 | 1.084 |
| 2 | n-Propanol | 2612 | 1.763 |




Ethanol 0.041 g/100mL

BWO




n-Propanol 0.012 g/100mL

EF

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2203 Airport Way S Seattle, WA 98134

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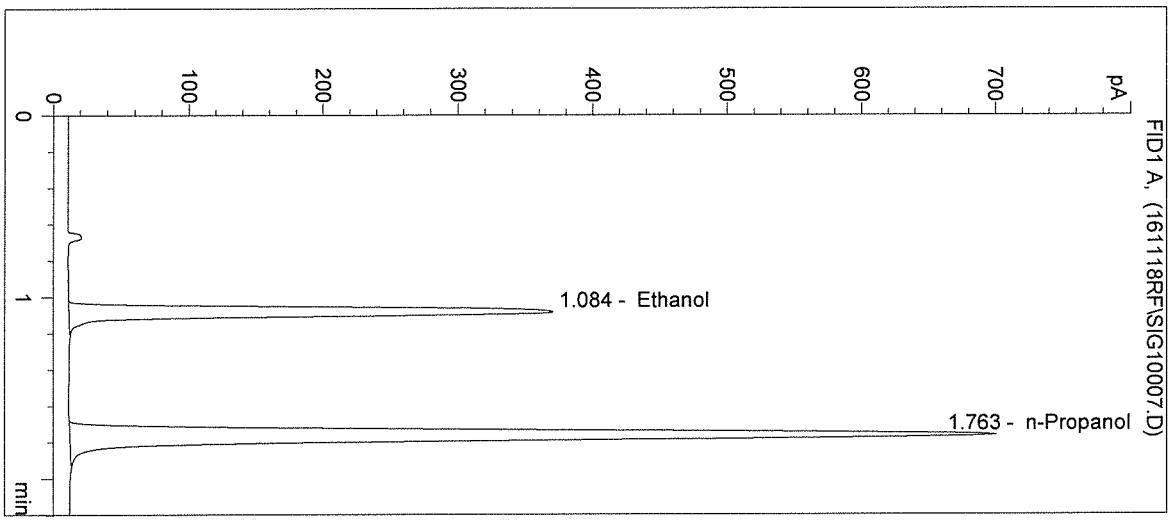
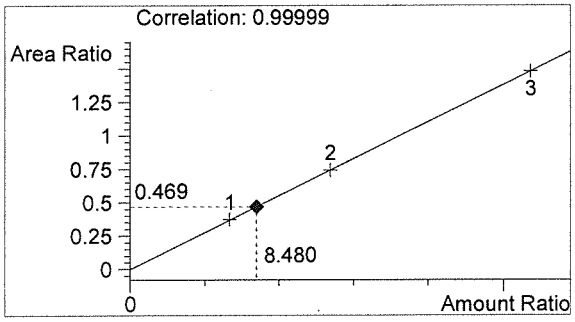
Inj. Date: 11/18/2016 9:47:54 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.10 CTRL
Operator: Rebecca Flaherty
Location: Vial 7

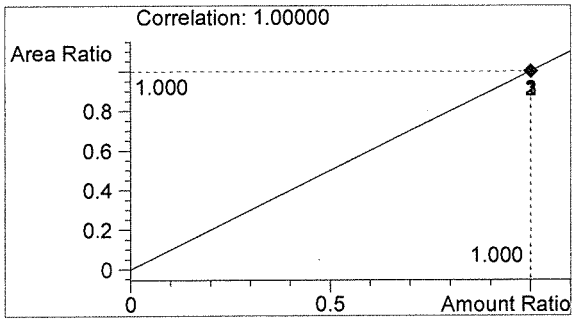



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1218 | 1.084 |
| 2 | n-Propanol | 2594 | 1.763 |




Ethanol 0.102 g/100mL

RWO




n-Propanol 0.012 g/100mL

EF

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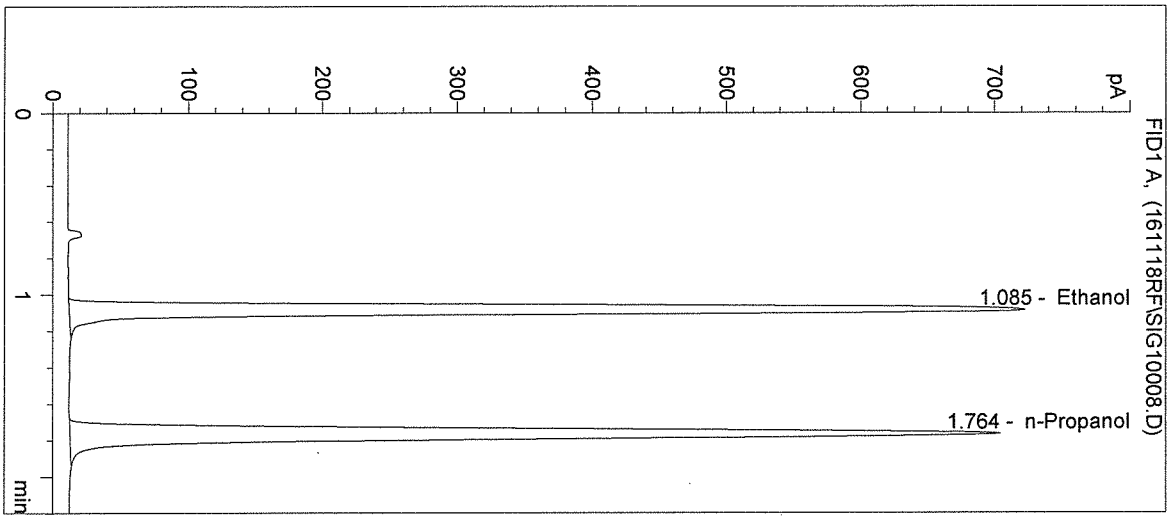
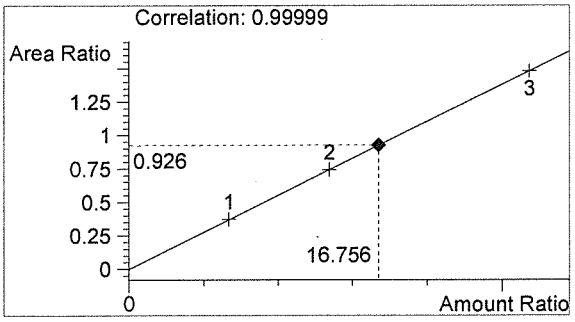
Inj. Date: 11/18/2016 9:51:07 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.20 CTRL
Operator: Rebecca Flaherty
Location: Vial 8

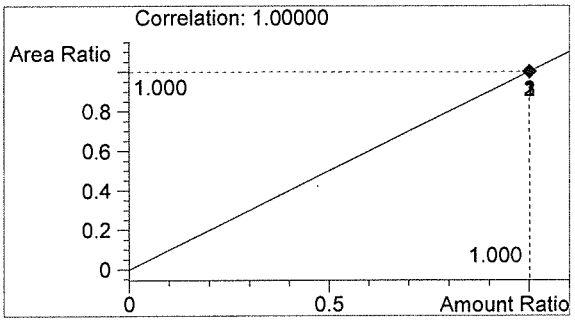



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 2420 | 1.085 |
| 2 | n-Propanol | 2614 | 1.764 |




Ethanol 0.201 g/100mL

BLO




n-Propanol 0.012 g/100mL

EF

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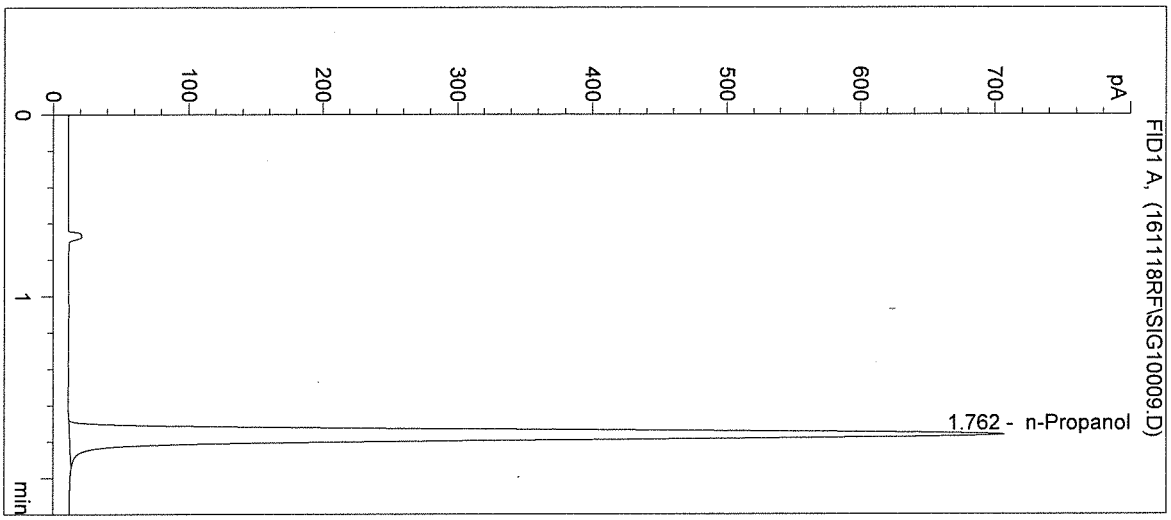
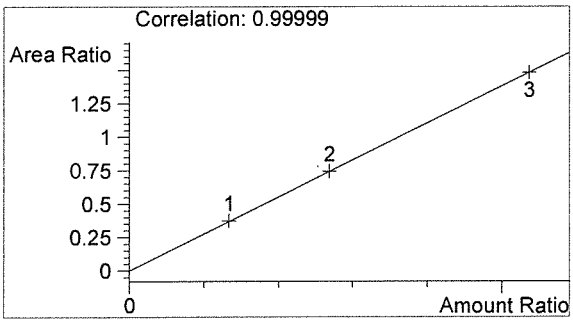
Inj. Date: 11/18/2016 9:54:20 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 9

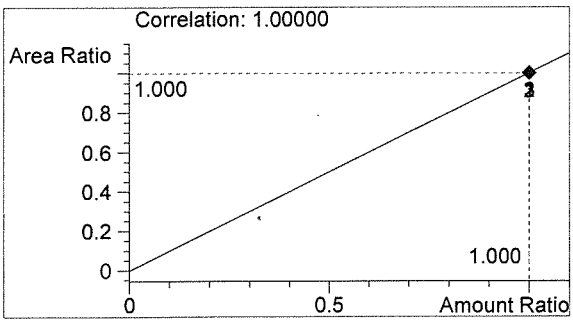



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2621 | 1.762 |




Ethanol 0.000 g/100mL

BWO




n-Propanol 0.012 g/100mL

RF

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Data File: C:\HPCHEM\1\DATA\161118RF\SIG10009.D

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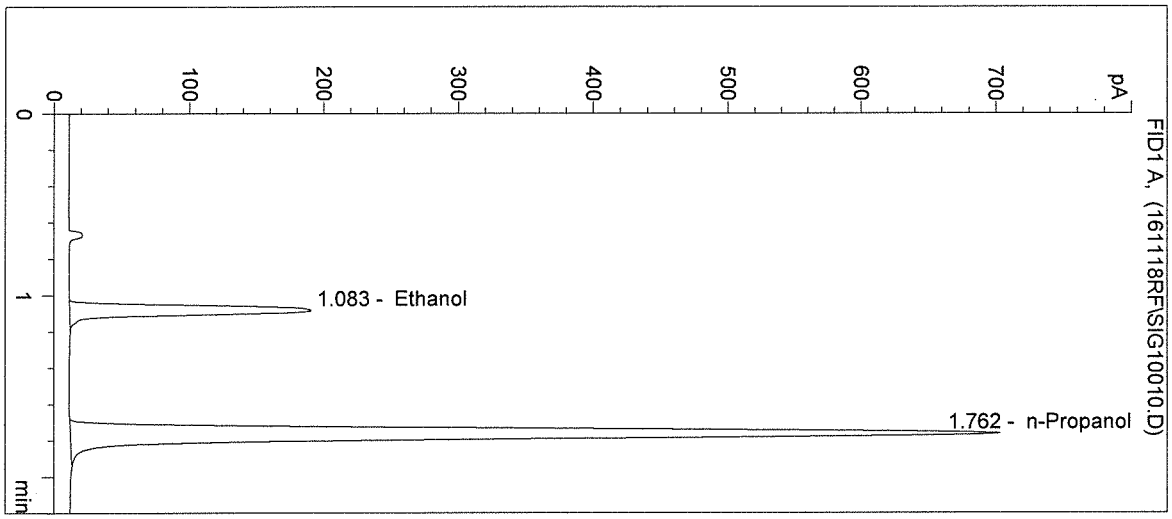
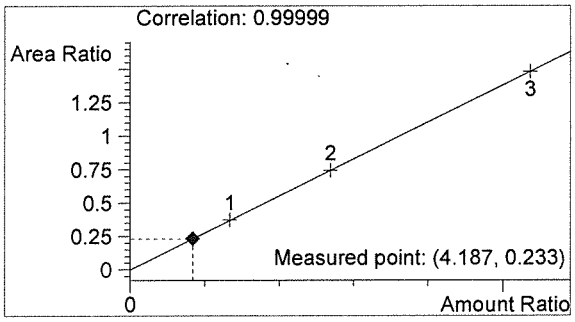
Inj. Date: 11/18/2016 9:57:33 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

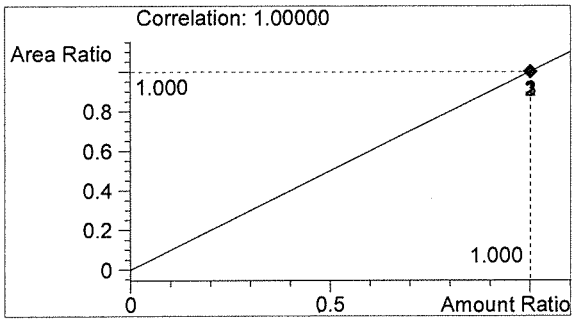
Sample Name: QAP 16047 #1
Operator: Rebecca Flaherty
Location: Vial 10




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 605 | 1.083 |
| 2 | n-Propanol | 2602 | 1.762 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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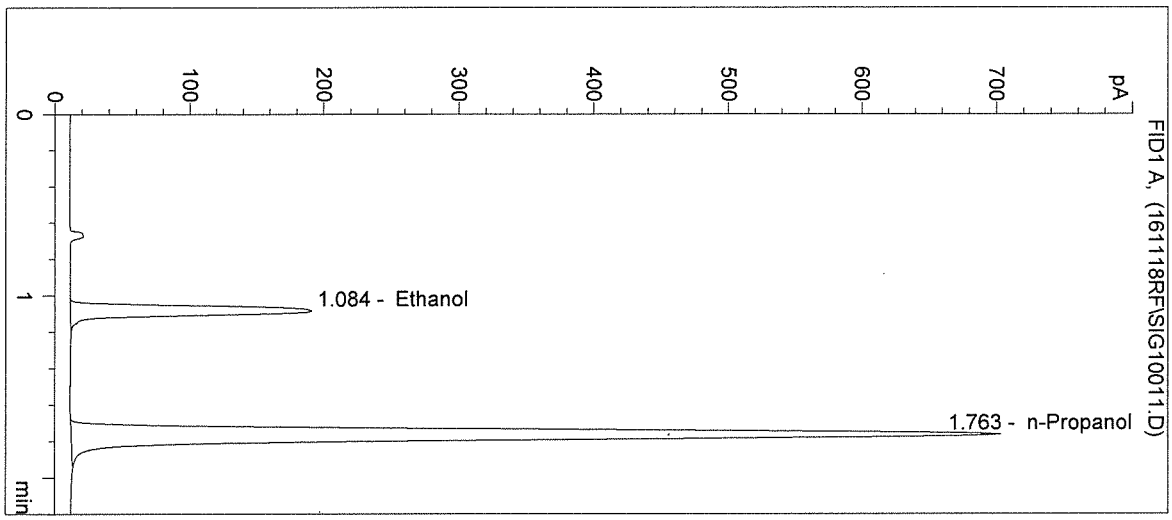
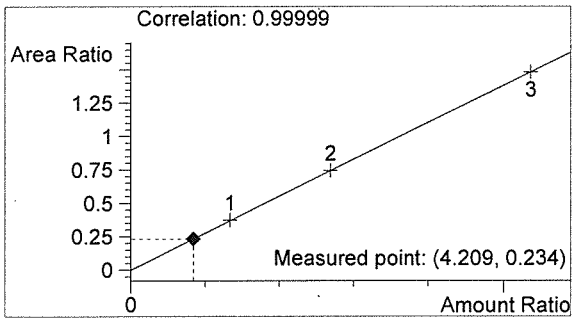
Inj. Date: 11/18/2016 10:00:47 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #2
Operator: Rebecca Flaherty
Location: Vial 11

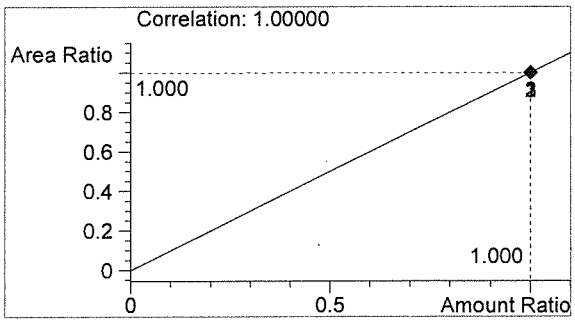



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 610 | 1.084 |
| 2 | n-Propanol | 2609 | 1.763 |




Ethanol 0.051 g/100mL

BWO




n-Propanol 0.012 g/100mL

RF

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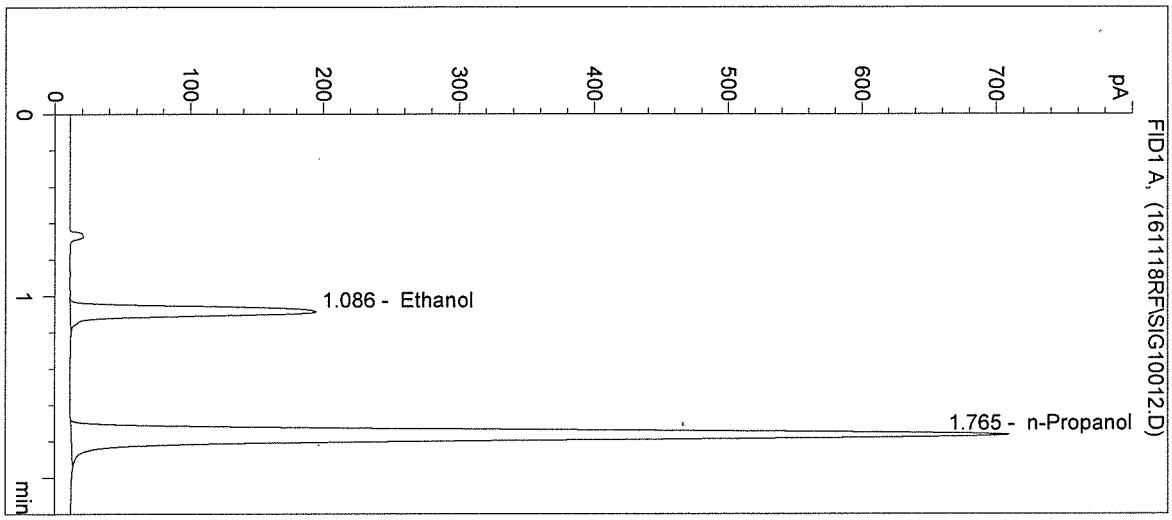
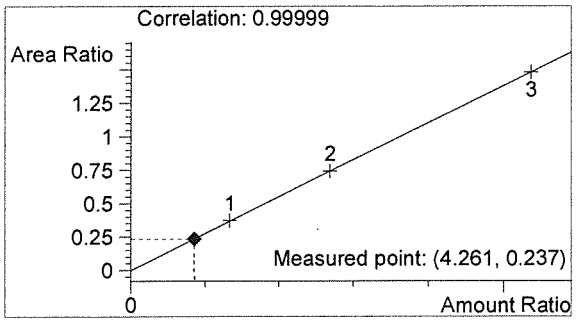
Inj. Date: 11/18/2016 10:04:00 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP 16047 #3
Operator: Rebecca Flaherty
Location: Vial 12

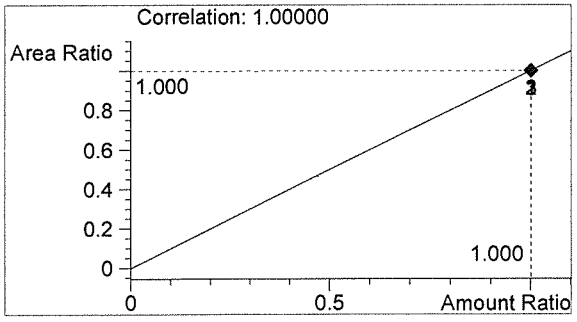



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 626 | 1.086 |
| 2 | n-Propanol | 2646 | 1.765 |




Ethanol 0.051 g/100mL

BWO




n-Propanol 0.012 g/100mL

EF

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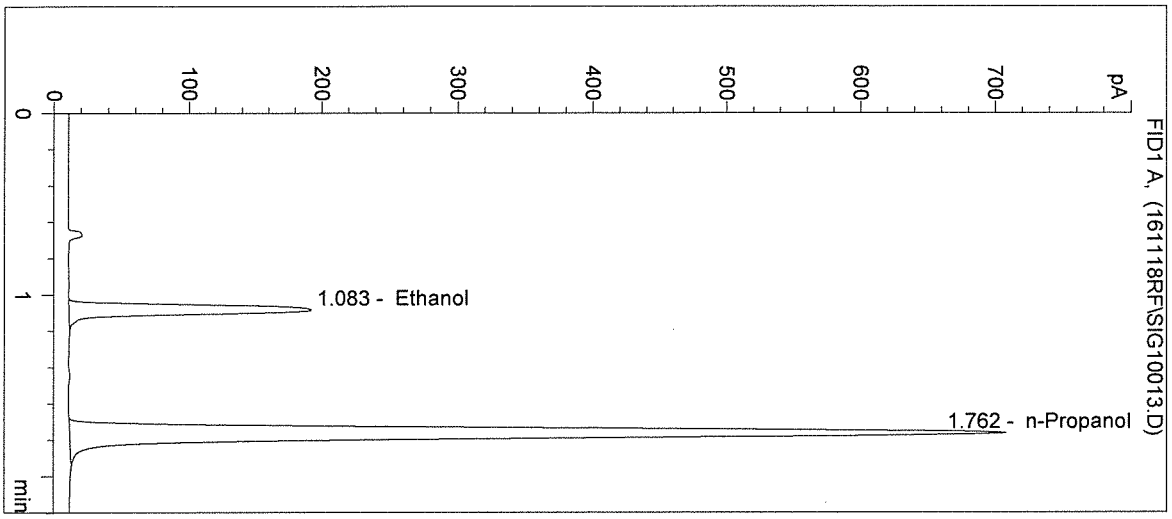
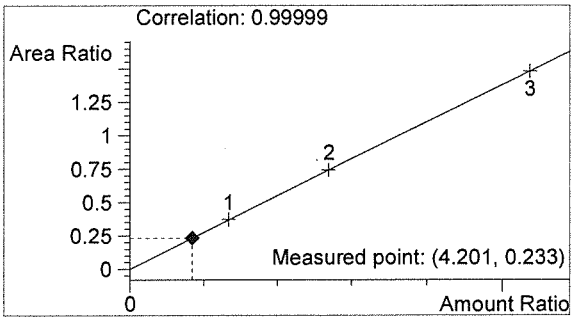
Inj. Date: 11/18/2016 10:07:14 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

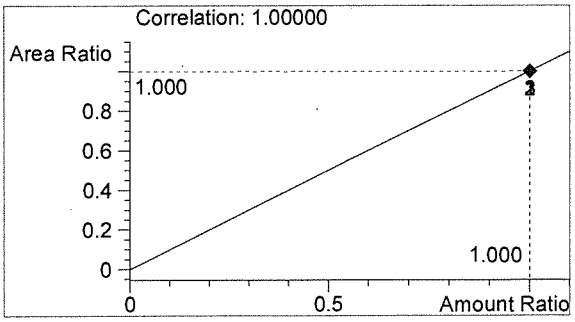
Sample Name: QAP 16047 #4
Operator: Rebecca Flaherty
Location: Vial 13




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 612 | 1.083 |
| 2 | n-Propanol | 2622 | 1.762 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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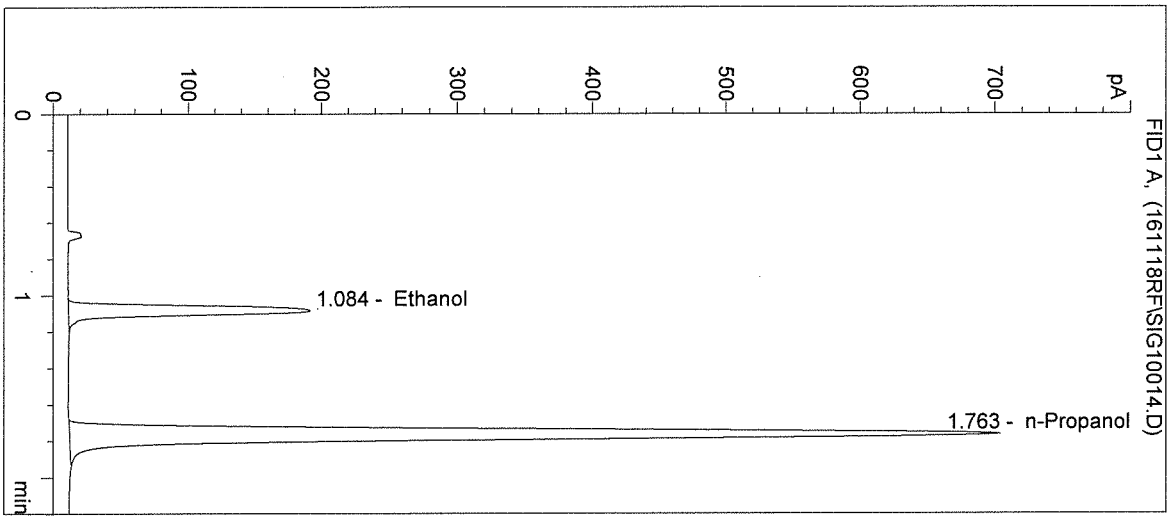
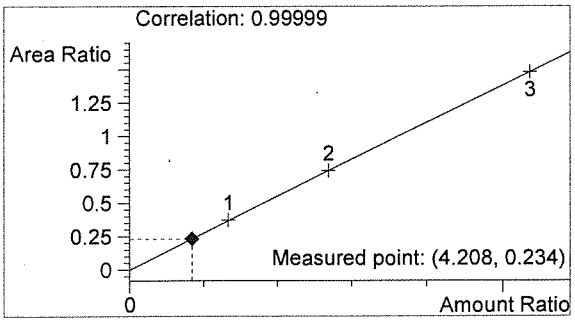
Inj. Date: 11/18/2016 10:10:27 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

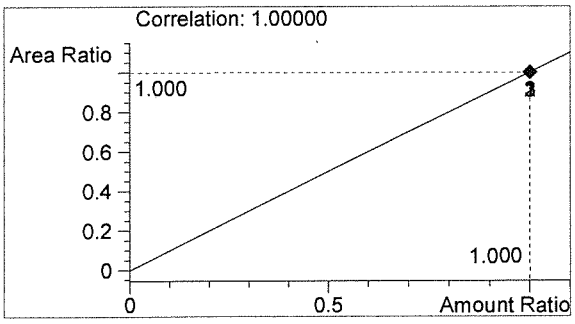
Sample Name: QAP 16047 #5
Operator: Rebecca Flaherty
Location: Vial 14




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 611 | 1.084 |
| 2 | n-Propanol | 2614 | 1.763 |




Ethanol 0.050 g/100mL




n-Propanol 0.012 g/100mL

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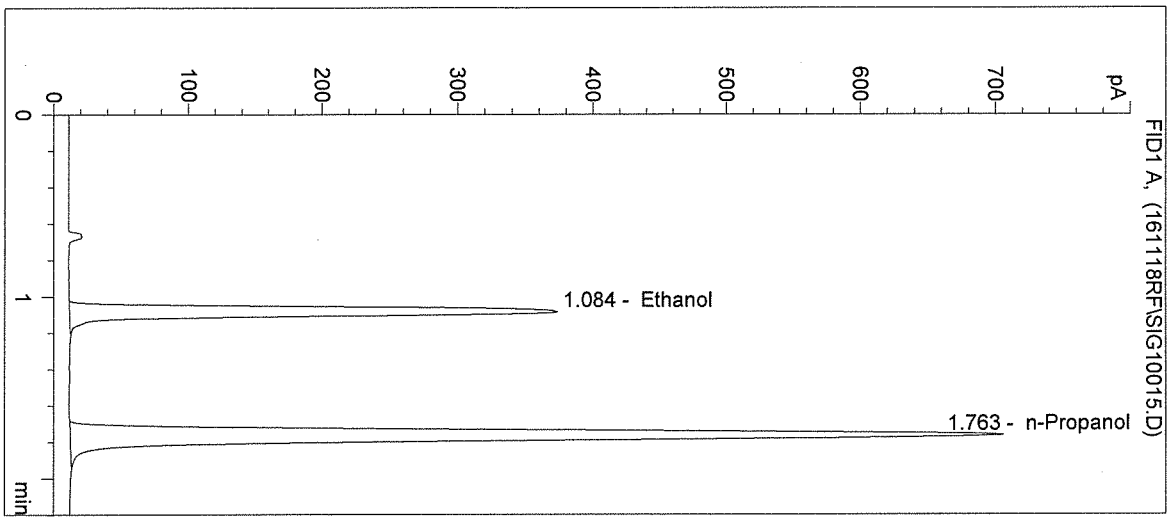
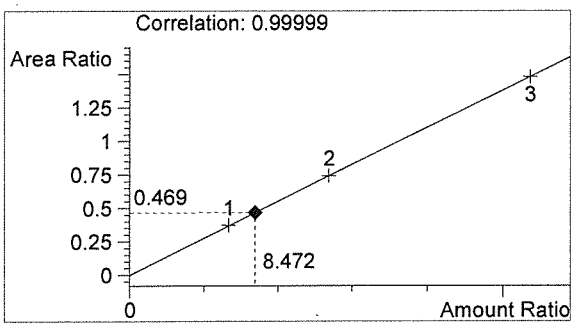
Inj. Date: 11/18/2016 10:13:40 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: 0.10 CTRL
Operator: Rebecca Flaherty
Location: Vial 15

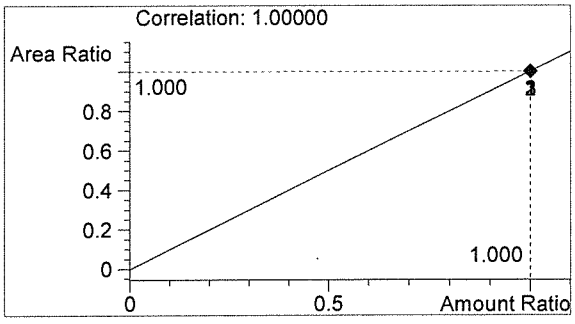



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1230 | 1.084 |
| 2 | n-Propanol | 2623 | 1.763 |




Ethanol 0.102 g/100mL

PWO




n-Propanol 0.012 g/100mL

EF

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Data File: C:\HPCHEM\1\DATA\161118RF\SIG10015.D

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2203 Airport Way S Seattle, WA 98134

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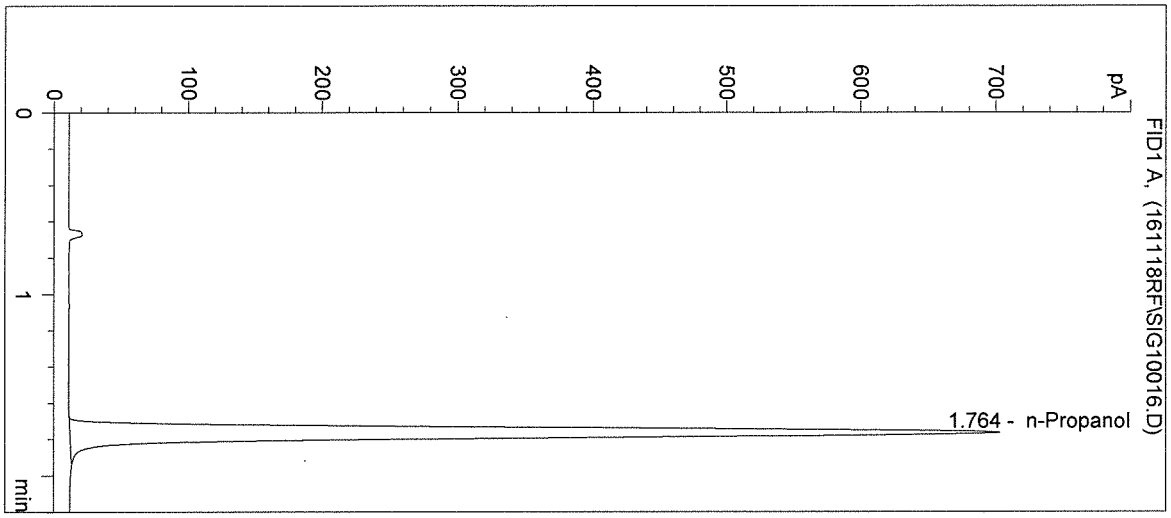
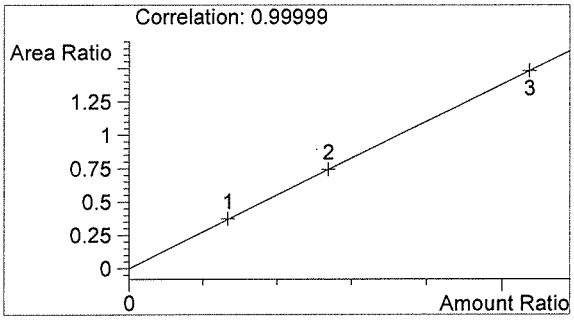
Inj. Date: 11/18/2016 10:16:54 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16047

Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 16

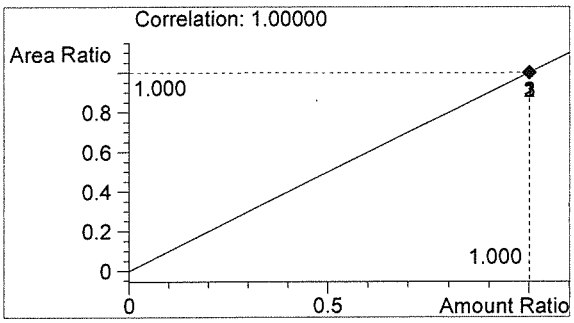



| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2618 | 1.764 |




Ethanol 0.000 g/100mL

BWO




n-Propanol 0.012 g/100mL

RF

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