



QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 16063

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: 12/31/2016
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: David Nguyen

| | DN | EW | AC |
|---|-------|-------|-------|
| 1 | 0.050 | 0.051 | 0.050 |
| 2 | 0.051 | 0.051 | 0.051 |
| 3 | 0.051 | 0.051 | 0.050 |
| 4 | 0.051 | 0.051 | 0.050 |
| 5 | 0.051 | 0.051 | 0.050 |
| C | 0.102 | 0.102 | 0.102 |

ETHANOL CONTROL INFORMATION

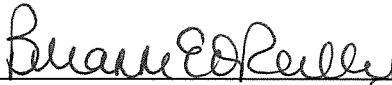
LOT NUMBER: FN08051301 EXPIRATION: 10/2018 CONCENTRATION: 0.10 g/100mL

RESULTS OF TESTING

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

EQUIVALENT VAPOR CONCENTRATION: **0.0412 g/210L**
EXPANDED UNCERTAINTY: ± 0.0008 (k=2, 95.45% confidence interval)



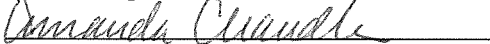
WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION



Brianne E. O'Reilly Technical Lead

1-17-2017
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

| ANALYST | NAME | SIGNATURE | DATE TESTED |
|---------|------------------|--|-------------|
| DN | David Nguyen |  | 12/31/2016 |
| EW | Elizabeth Wehner |  | 12/31/2016 |
| AC | Amanda Chandler |  | 01/07/2017 |

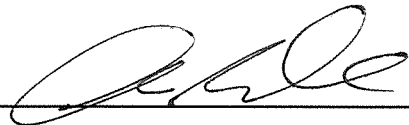
SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 1-20-17

Location: WSP-FLSB Seattle, WA Solution Batch Number: 16063

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

Comments:

Reviewer Signature: 

Date: 1-20-17

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

QAP Solution Batch #: 16063

Date Prepared: 12/31/2016

| | | | |
|--------------|------------|------------|----------|
| Analyst: | DN | EW | AC |
| Date Tested: | 12/31/2016 | 12/31/2016 | 1/7/2017 |
| Instrument: | HSGC 1 | HSGC 1 | HSGC 1 |
| 1 | 0.050 | 0.051 | 0.050 |
| 2 | 0.051 | 0.051 | 0.051 |
| 3 | 0.051 | 0.051 | 0.050 |
| 4 | 0.051 | 0.051 | 0.050 |
| 5 | 0.051 | 0.051 | 0.050 |
| C | 0.102 | 0.102 | 0.102 |

| CV^2_{COA} | $CV^2_{QAP\ Solution}$ | $CV^2_{Control}$ | $CV^2_{Part\ Coef}$ |
|--------------|------------------------|------------------|---------------------|
| 0.0000084100 | 0.0000061832 | 0.0000000000 | 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 (\pm): 0.0004 g/210L
Expanded Uncertainty (\pm): 0.0008 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Brianne E. O'Reilly Brianne E O'Reilly 1-12-17
Name Signature Date

Calculations verified by: Amanda M. Black [Signature] 1-20-17 Method: Hand calculation
Name Signature Date

Tech. review performed by: Brianne E. O'Reilly Brianne E O'Reilly 1-12-17
Name Signature Date

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 | AZ | 1/17/17 |
| Andrew Gingras | | |
| Asa Louis | | |
| Brittany Thomas | | |
| Christie Mitchell-Mata | | |
| Christopher Johnston | | |
| David Nguyen | DN | 1/17/17 |
| Dawn Sklerov | | |
| Elizabeth Wehner | EW | 1/17/17 |
| Justin Knoy | | |
| Katie Harris | | |
| Lyndsey Knoy | | |
| Naziha Nuwayhid | | |
| Rebecca Flaherty | | |

Batch # 16063
huo 1.12.17

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 16063**

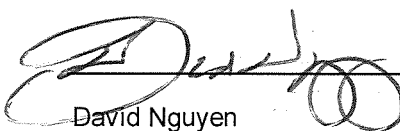
I, David Nguyen, do certify under penalty of perjury that:

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 Chemistry.

The quality assurance procedure (QAP) solution, Lot Number 16063, was prepared in the Washington State Toxicology Laboratory on 12/31/2016. 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 12/31/2017.

Seattle, WA

 11/7/17
Date

David Nguyen
Forensic Scientist



JAY INSLEE
Governor



JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

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**0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION
CERTIFICATION FOR LOT 16063**

I, Elizabeth Wehner, 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 Biochemistry.

The quality assurance procedure (QAP) solution, Lot Number 16063, was prepared in the Washington State Toxicology Laboratory on 12/31/2016. 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 12/31/2017.

Seattle, WA

Elizabeth Wehner 1/17/17

Elizabeth Wehner

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 16063**

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 16063, was prepared in the Washington State Toxicology Laboratory on 12/31/2016. 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 12/31/2017.

Seattle, WA

Amanda Chandler 1/17/17

Amanda Chandler

Date

Forensic Scientist



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

Preparation Date: 12/31/14 Expiration Date: 12/31/17 Initials of Preparer: DN

Lot # of 200-proof Ethanol used in preparation: 2DK0010

Date the 200-proof Ethanol bottle was opened: 12/20/14

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 | <input checked="" type="checkbox"/> | <u>16063</u> |
| QAP 0.08 | 22.4 | 18 | <input checked="" type="checkbox"/> | <u>16064</u> |
| <u>12/31/16 DN</u> QAP 0.08 | <u>22.4</u> | <u>12/31/16 DN</u> 18 | <input checked="" type="checkbox"/> | <u>16065</u> |
| QAP 0.10 | 28.4 | 18 | <input checked="" type="checkbox"/> | |
| QAP 0.15 | 42.1 | 18 | <input type="checkbox"/> | |
| QAP 0.20 | 56.1 | 18 | <input type="checkbox"/> | |
| ESS | 66.5 | 52 | <input type="checkbox"/> | |

Stir bar is rotating

Stirred for minimum 30 minutes; 2 hours for ESS

Spigot purged

Aliquot taken

Batch labeled, packaged and sealed

12/31/14
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

12/31/14
Date

16063
Rev 01-12-17

Sequence Parameters:

Operator: David Nguyen
 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: 161231DN
 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: E0916-01 - X: 03/15/17
 CAL 2: 0.158 g/100mL - Lot: E0916-02 - X: 03/15/17
 CAL 3: 0.316 g/100mL - Lot: E0916-03 - X: 03/15/17

 CTRL 1: 0.04 g/100mL - Lot: FN12181501 - X: 12/2020
 CTRL 2: 0.10 g/100mL - Lot: FN08051301 - X: 10/2018
 CTRL 3: 0.20 g/100mL - Lot: FN08101505 - X: 02/2021

 n-Propanol ISTD - Lot: P1116 - X: 02/23/17

 Calibration vials 1-9 filed with 16063.

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 | CAL 1 (0.079) | SIMALC1 | 1 | Calib | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC1 | 1 | Calib | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC1 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | CTRL 1 (0.04) | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | CTRL 2 (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | CTRL 3 (0.20) | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 16063 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 16063 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 16063 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 16063 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 16063 #5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 16064 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 16064 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 16064 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 16064 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 16064 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 16065 #1 | SIMALC1 | 1 | Sample | | |

16063
 Run 1-12-17

DN

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|-----------------|---------|-----|------------|-----------|----------|
| 25 | Vial 25 | 16065 #2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 16065 #3 | SIMALC1 | 1 | Sample | | |
| 27 | Vial 27 | 16065 #4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 16065 #5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | POS CTRL (0.10) | 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 | CAL 1 (0.079) | SIMALC1 | 1 | Replace | | Replace | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC1 | 2 | Replace | | Replace | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC1 | 3 | Replace | | Replace | | |

Sequence Table (Back Injector):

No entries - empty table!

16063
Buo 112.17

DN

=====
Calibration Table
=====

Calib. Data Modified : Saturday, December 31, 2016 9:38:37 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 | 1017.32416 | 7.86475e-5 | 1 | Ethanol |
| | | 1.61200e-1 | 2046.12952 | 7.87829e-5 | | |
| | | 3.21790e-1 | 3854.09766 | 8.34930e-5 | | |
| 1.765 | 1 1 | 1.20000e-2 | 2920.22266 | 4.10928e-6 | I1 | n-Propanol |
| | | 1.20000e-2 | 2945.34863 | 4.07422e-6 | | |
| | | 1.20000e-2 | 2825.46582 | 4.24709e-6 | | |

AWO 1.12.17
~~16062~~

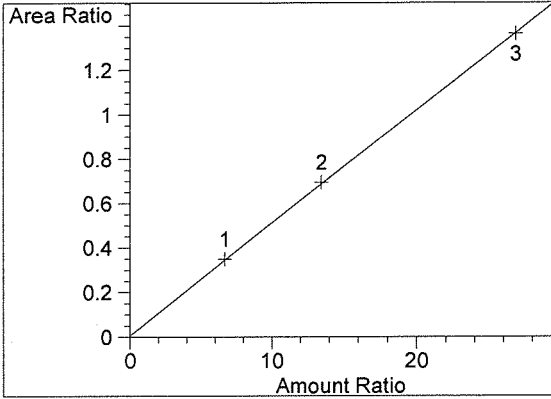
=====
Peak Sum Table
=====

No Entries in table
=====

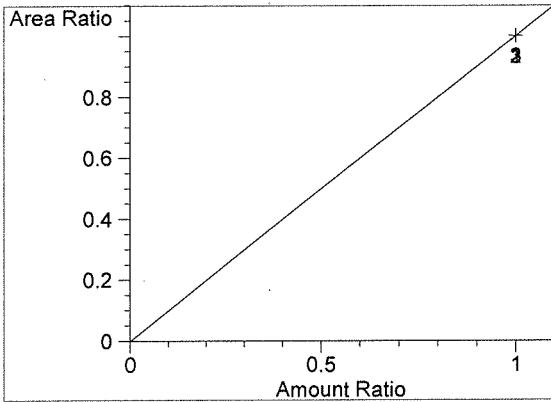
16063
AWO 1.12.17

DN

=====
Calibration Curves
=====



Ethanol at exp. RT: 1.087
FID1 A,
Correlation: 0.99995
Residual Std. Dev.: 0.00730
Formula: $y = mx + b$
m: 5.07984e-2
b: 5.95889e-3
x: Amount Ratio
y: Area Ratio



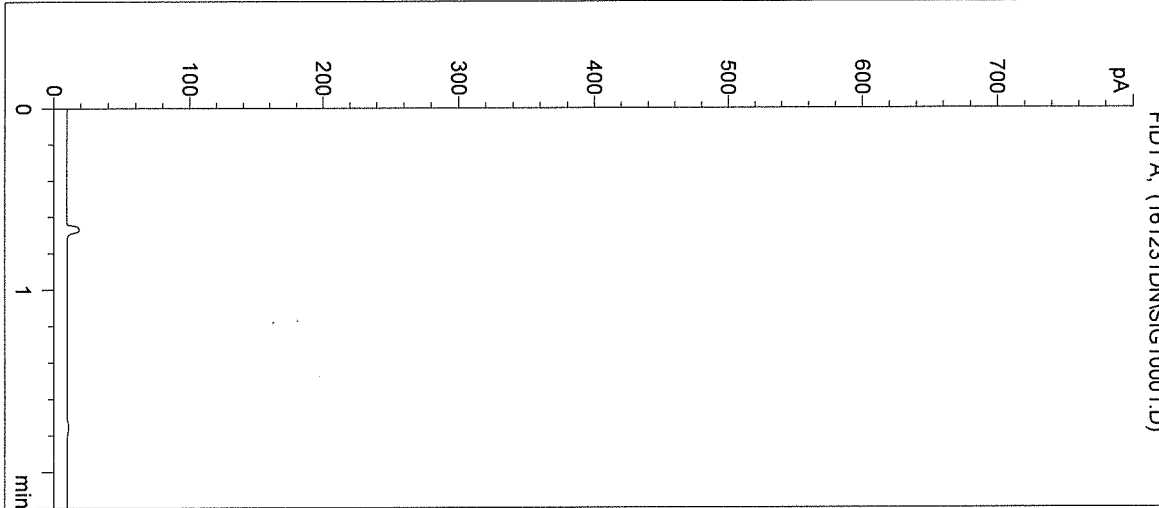
n-Propanol at exp. RT: 1.765
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

16063
BUO 1.12.17

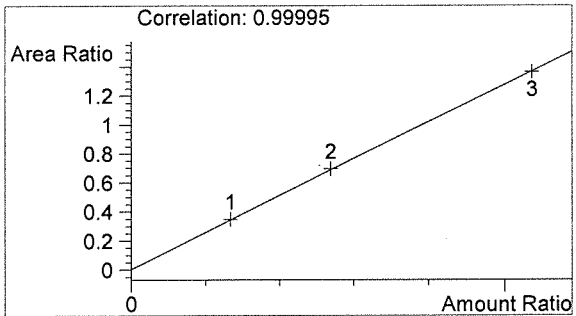
DN

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

Inj. Date: 12/31/2016 9:26:31 AM Sample Name: BLANK
Instrument: HSGC#1 Operator: David Nguyen
Column: DB-ALC1 Location: Vial 1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

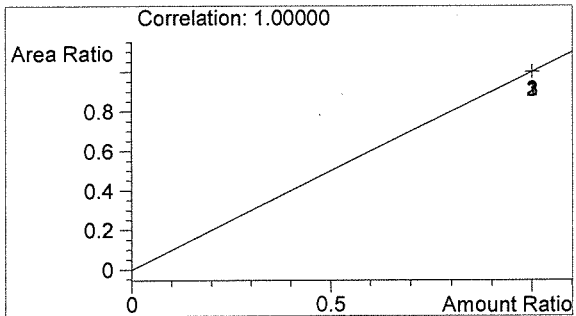


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |



Ethanol 0.000 g/100mL

AW



n-Propanol 0.000 g/100mL

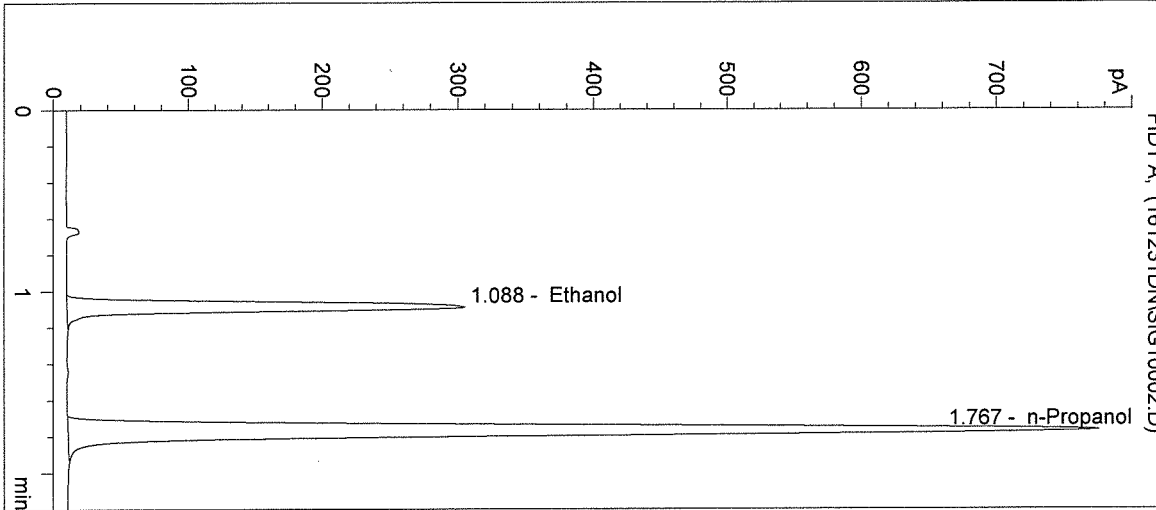
DN

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 2203 Airport Way S Seattle, WA 98134

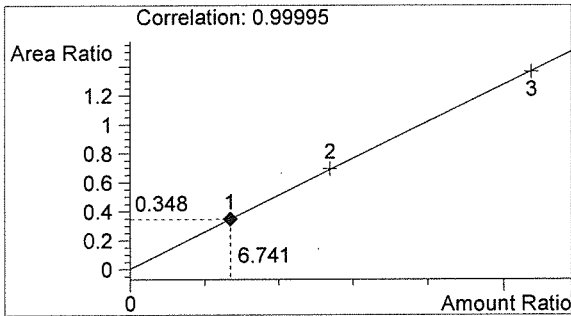
Inj. Date: 12/31/2016 9:29:50 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CAL 1: 0.079 g/100mL
 16063

Sample Name: CAL 1 (0.079)
 Operator: David Nguyen
 Location: Vial 2

->

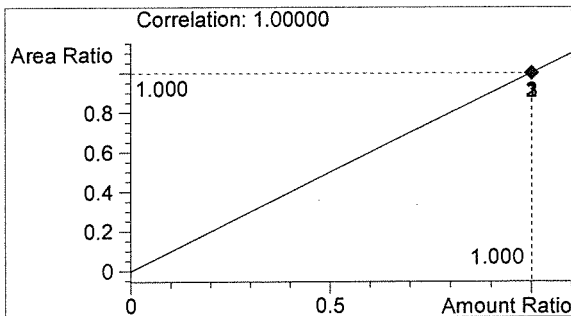


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1017 | 1.088 |
| 2 | n-Propanol | 2920 | 1.767 |



Ethanol 0.081 g/100mL

AWO



n-Propanol 0.012 g/100mL

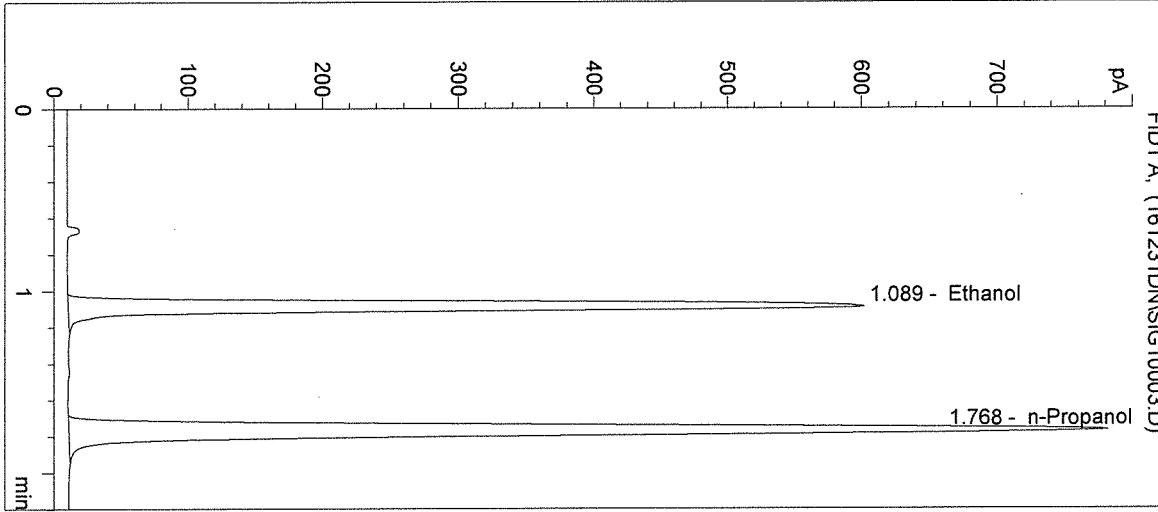
DN

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 2203 Airport Way S Seattle, WA 98134

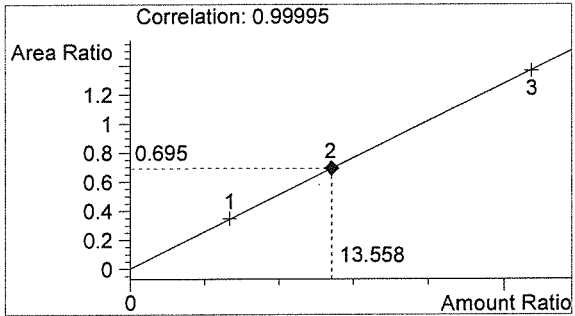
Inj. Date: 12/31/2016 9:33:07 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CAL 2: 0.158 g/100mL
 16063

Sample Name: CAL 2 (0.158)
 Operator: David Nguyen
 Location: Vial 3

->

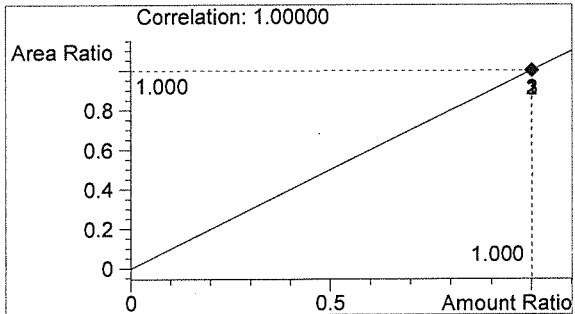


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2046 | 1.089 |
| 2 | n-Propanol | 2945 | 1.768 |



Ethanol 0.163 g/100mL

BW



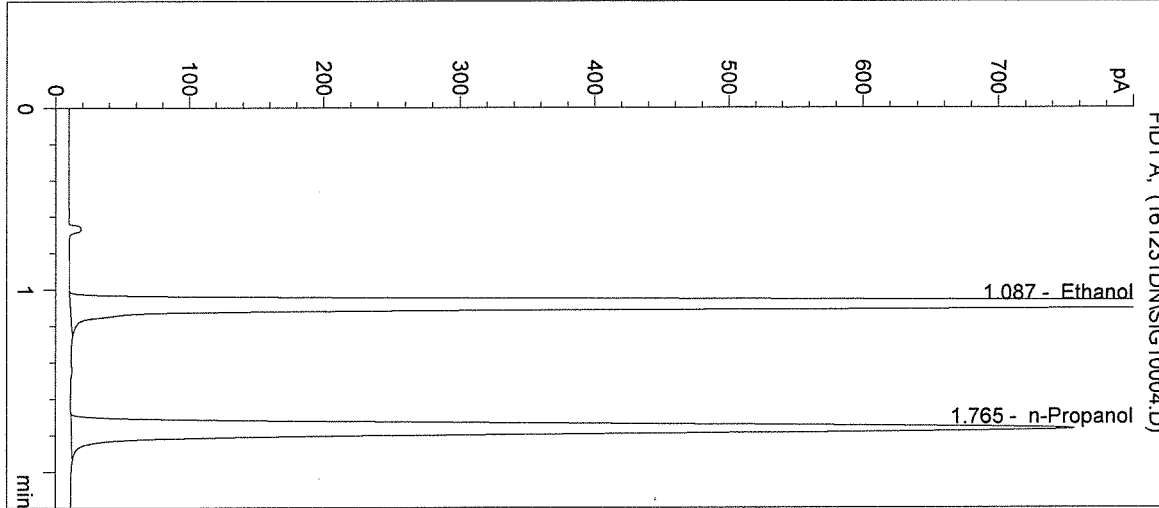
n-Propanol 0.012 g/100mL

DN

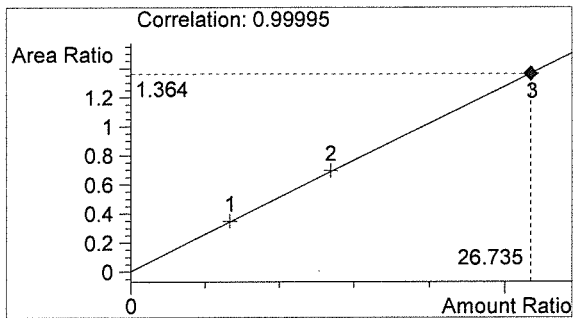
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 12/31/2016 9:36:24 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CAL 3: 0.316 g/100mL
 16063

Sample Name: CAL 3 (0.316)
 Operator: David Nguyen
 Location: Vial 4

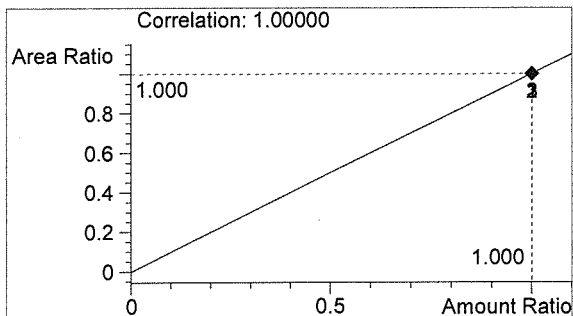


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 3854 | 1.087 |
| 2 | n-Propanol | 2825 | 1.765 |



Ethanol 0.321 g/100mL

PW

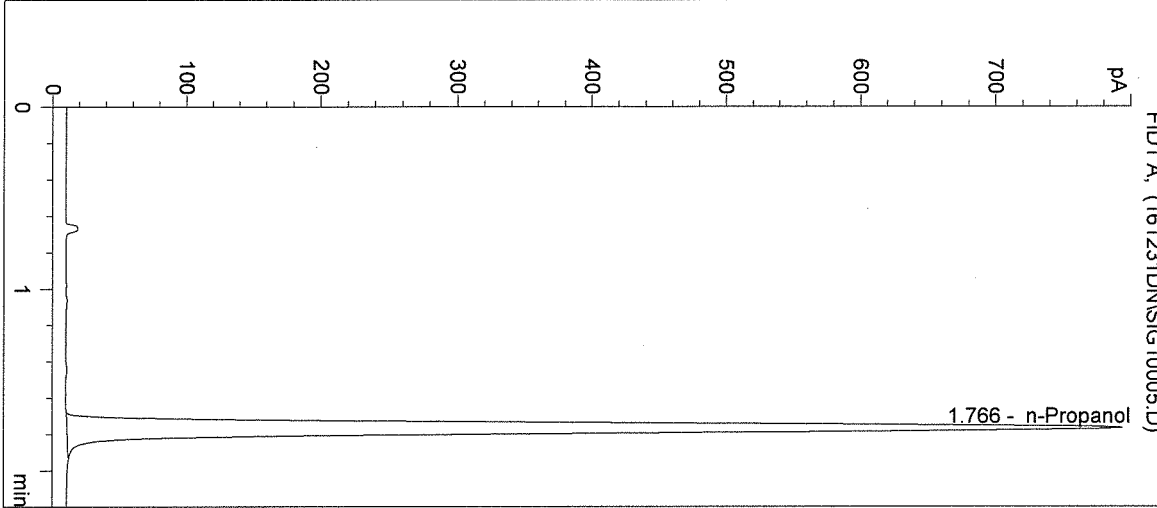


n-Propanol 0.012 g/100mL

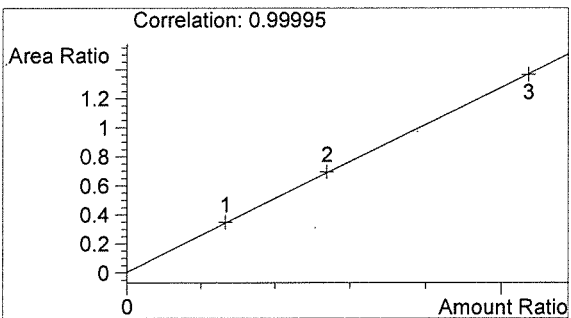
DN

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

Inj. Date: 12/31/2016 9:39:37 AM Sample Name: NEG CTRL
Instrument: HSGC#1 Operator: David Nguyen
Column: DB-ALC1 Location: Vial 5
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

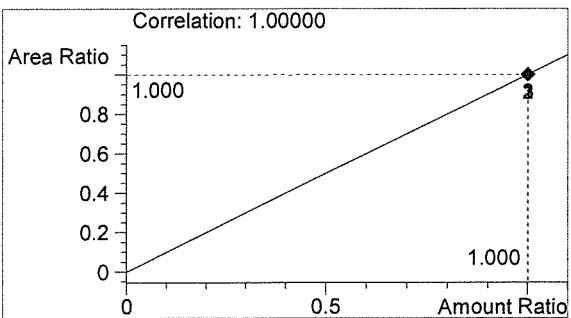


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2982 | 1.766 |



Ethanol 0.000 g/100mL

BWD



n-Propanol 0.012 g/100mL

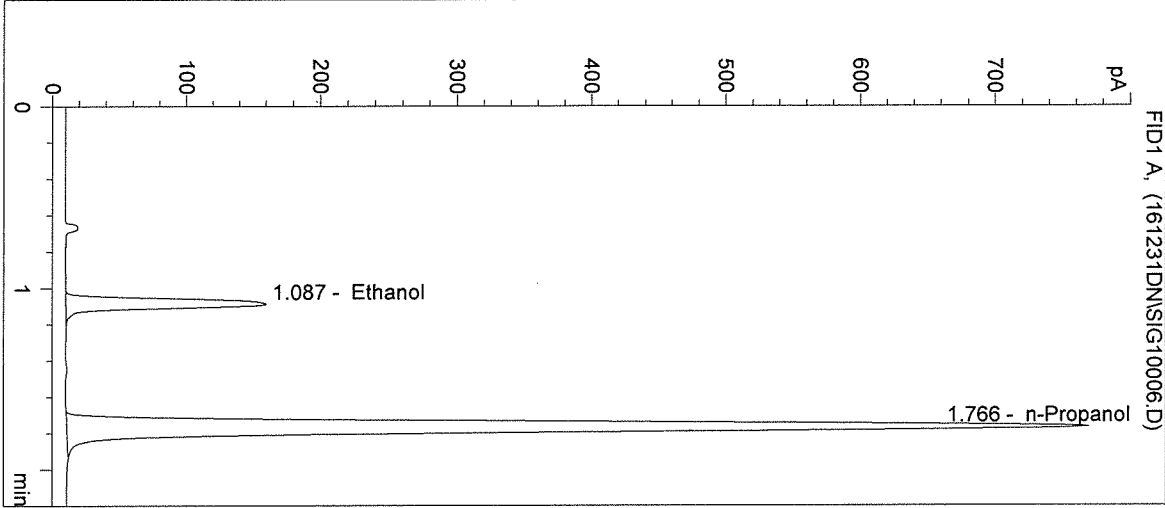
DN

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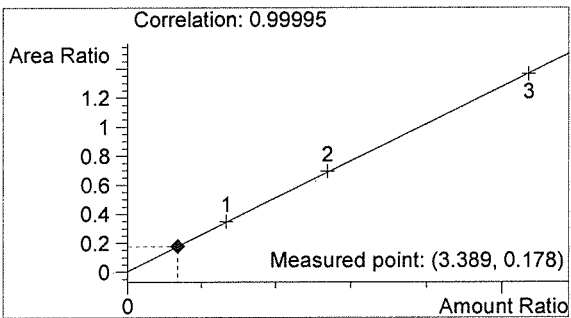
Inj. Date: 12/31/2016 9:42:50 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CTRL 1: 0.04 g/100mL
 16063

Sample Name: CTRL 1 (0.04)
 Operator: David Nguyen
 Location: Vial 6

->

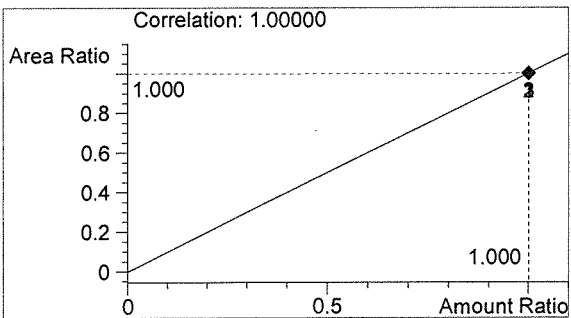


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 513 | 1.087 |
| 2 | n-Propanol | 2881 | 1.766 |



Ethanol 0.041 g/100mL

RLW



n-Propanol 0.012 g/100mL

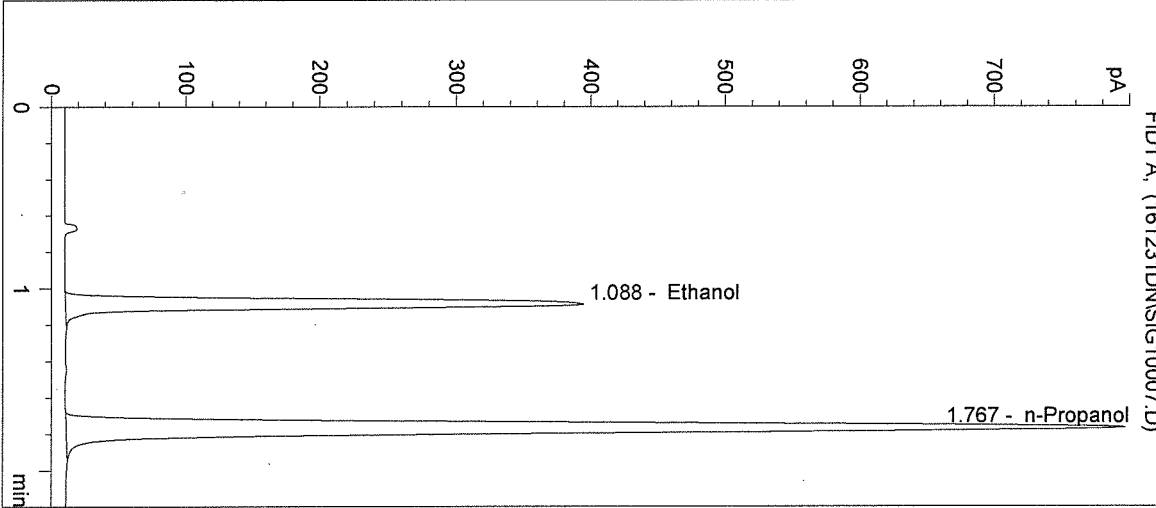
DL

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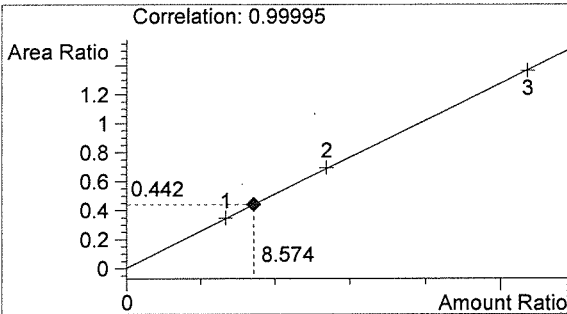
Inj. Date: 12/31/2016 9:46:03 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CTRL 2: 0.10 g/100mL
 16063

Sample Name: CTRL 2 (0.10)
 Operator: David Nguyen
 Location: Vial 7

->

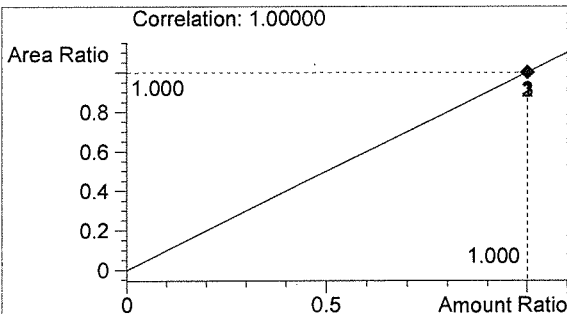


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1323 | 1.088 |
| 2 | n-Propanol | 2997 | 1.767 |



Ethanol 0.103 g/100mL

BLU



n-Propanol 0.012 g/100mL

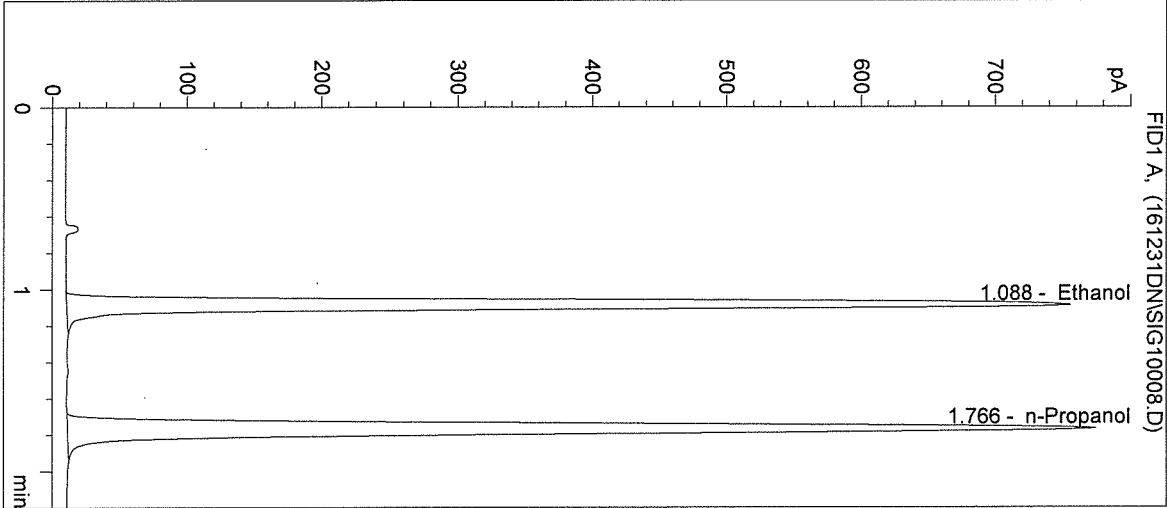
DN

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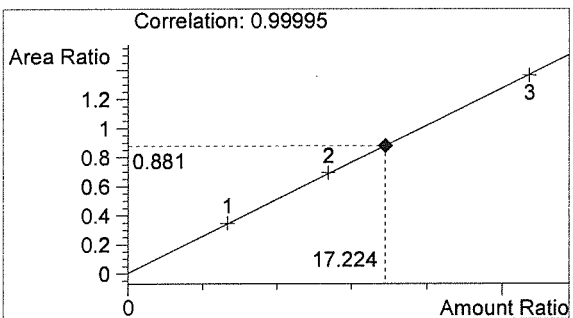
Inj. Date: 12/31/2016 9:49:17 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CTRL 3: 0.20 g/100mL
 16063

Sample Name: CTRL 3 (0.20)
 Operator: David Nguyen
 Location: Vial 8

->

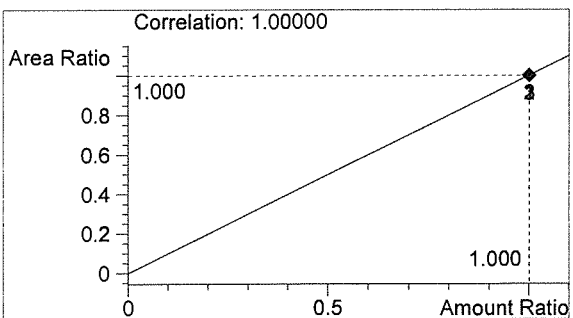


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2559 | 1.088 |
| 2 | n-Propanol | 2904 | 1.766 |



Ethanol 0.207 g/100mL

AW

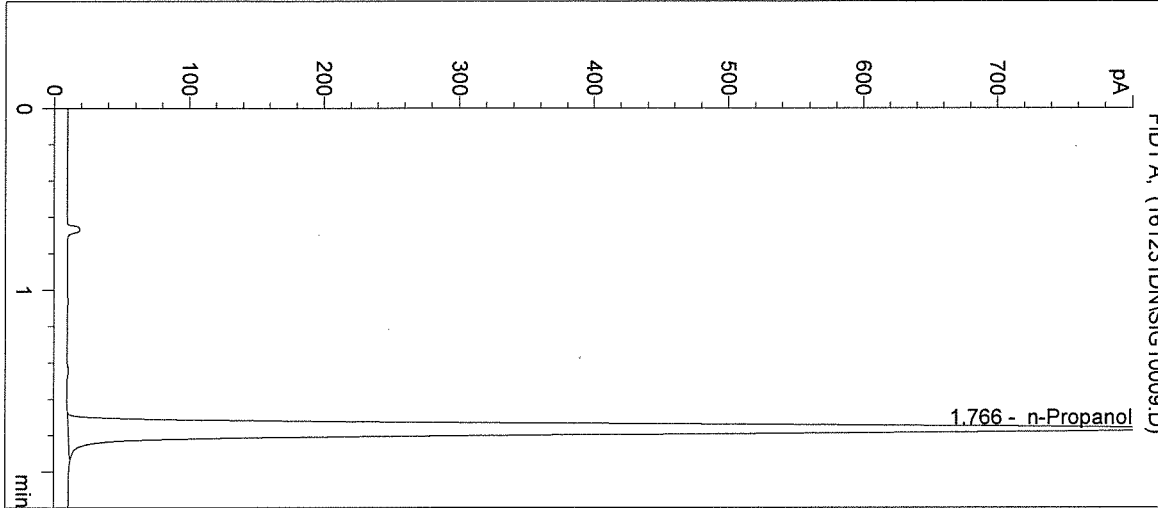


n-Propanol 0.012 g/100mL

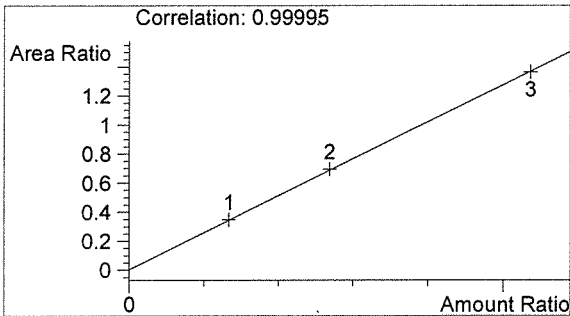
DN

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

Inj. Date: 12/31/2016 9:52:30 AM Sample Name: NEG CTRL
Instrument: HSGC#1 Operator: David Nguyen
Column: DB-ALC1 Location: Vial 9
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

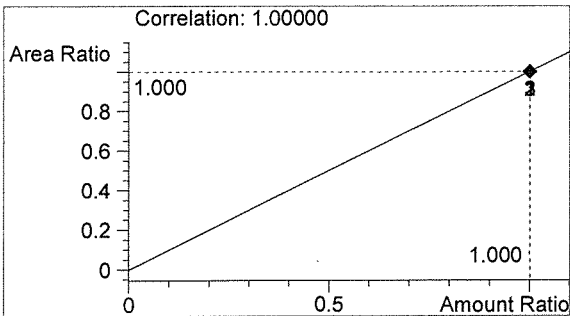


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 3167 | 1.766 |



Ethanol 0.000 g/100mL

BWD



n-Propanol 0.012 g/100mL

DZ

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

Inj. Date: 12/31/2016 9:55:44 AM

Sample Name: 16063 #1

Instrument: HSGC#1

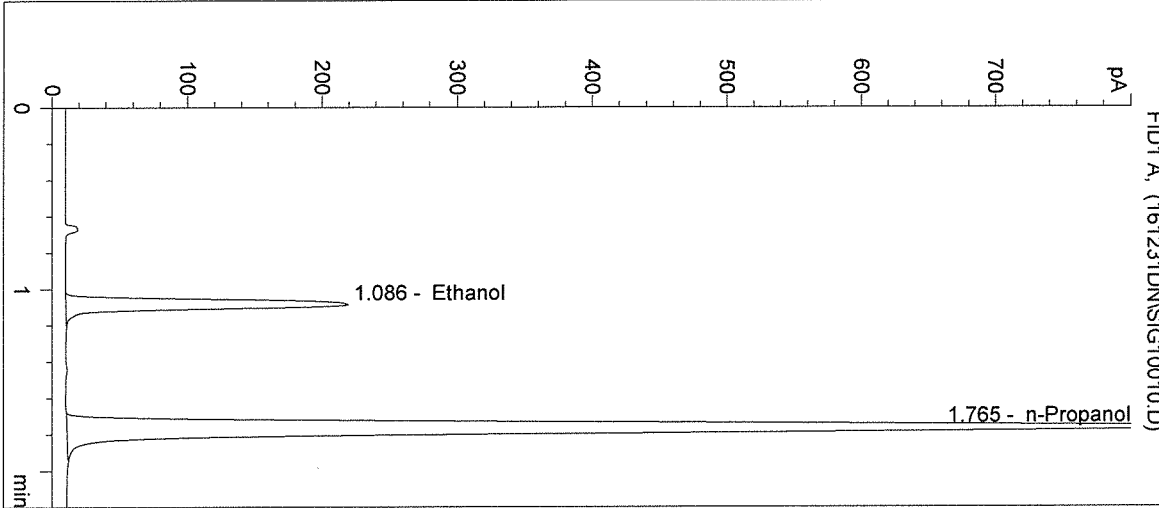
Operator: David Nguyen

Column: DB-ALC1

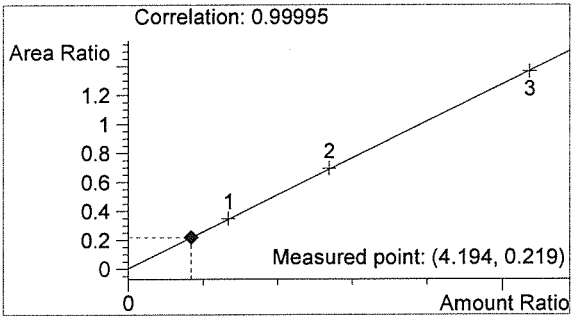
Location: Vial 10

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

Sample Info:

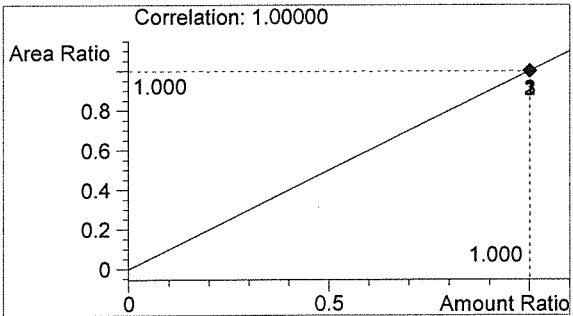


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 714 | 1.086 |
| 2 | n-Propanol | 3262 | 1.765 |



Ethanol 0.050 g/100mL

Buo



n-Propanol 0.012 g/100mL

DN

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

Inj. Date: 12/31/2016 9:58:57 AM

Sample Name: 16063 #2

Instrument: HSGC#1

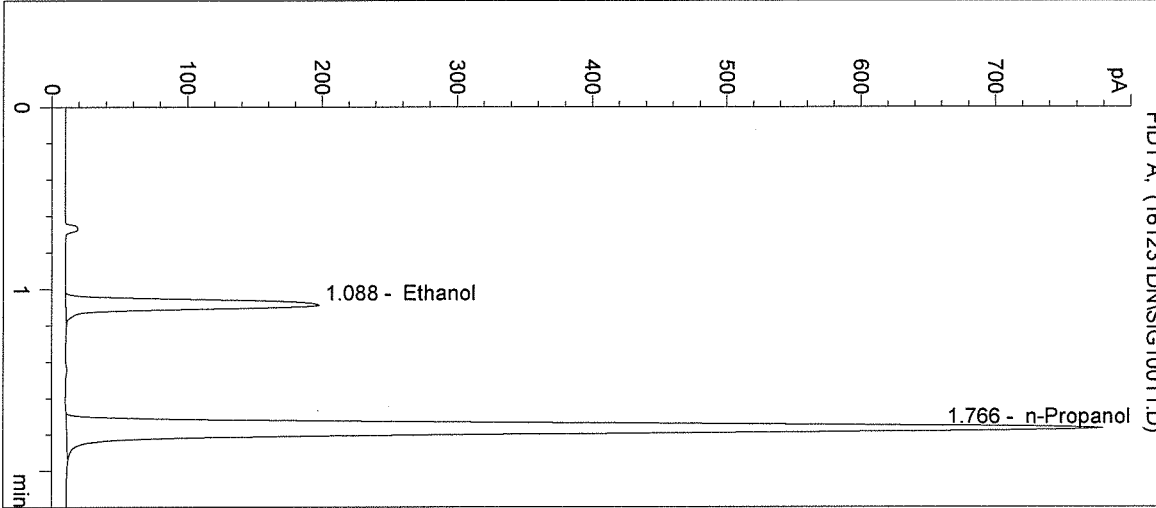
Operator: David Nguyen

Column: DB-ALC1

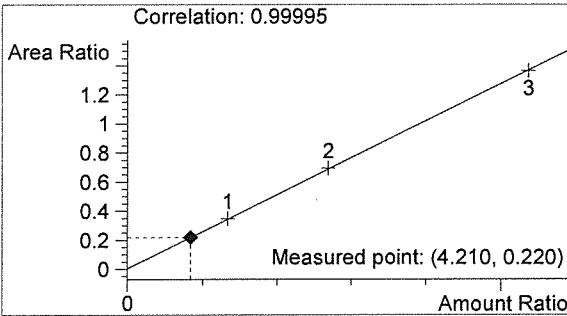
Location: Vial 11

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

Sample Info:

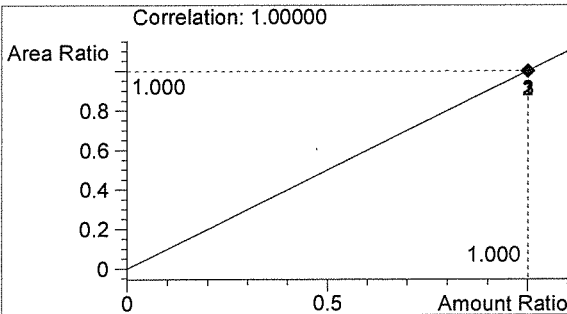


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 642 | 1.088 |
| 2 | n-Propanol | 2921 | 1.766 |



Ethanol 0.051 g/100mL

AWO



n-Propanol 0.012 g/100mL

DN

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

Inj. Date: 12/31/2016 10:02:10 AM

Sample Name: 16063 #3

Instrument: HSGC#1

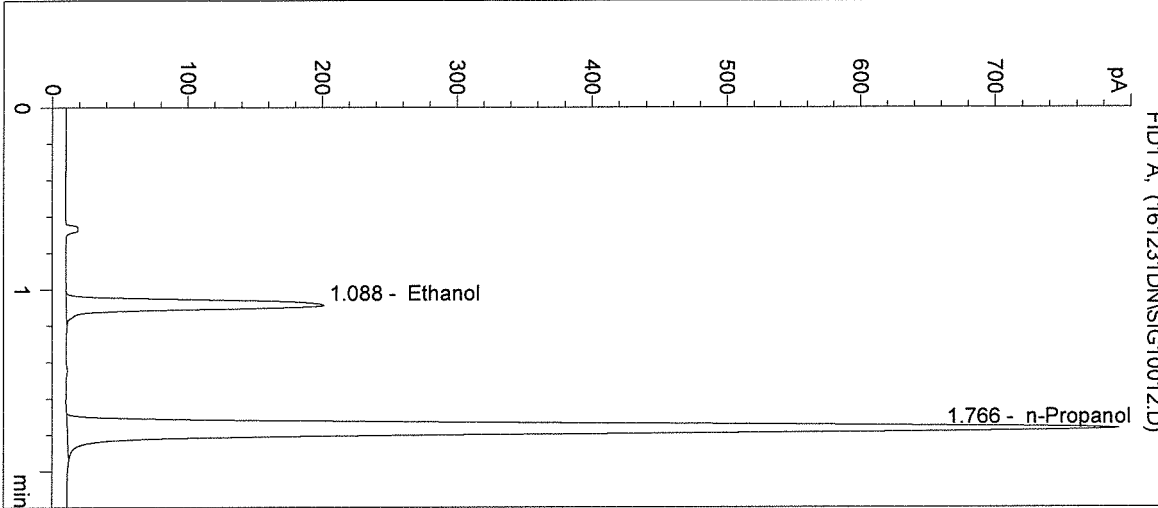
Operator: David Nguyen

Column: DB-ALC1

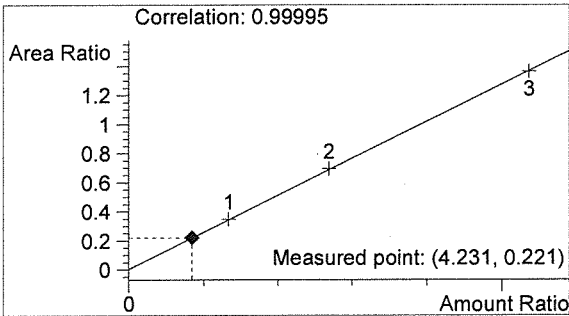
Location: Vial 12

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

Sample Info:

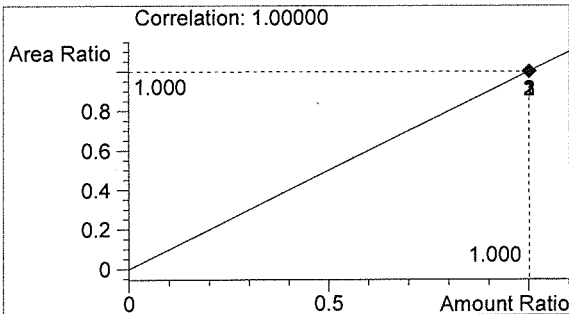


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 652 | 1.088 |
| 2 | n-Propanol | 2951 | 1.766 |



Ethanol 0.051 g/100mL

AWO



n-Propanol 0.012 g/100mL

DN

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

Inj. Date: 12/31/2016 10:05:23 AM

Sample Name: 16063 #4

Instrument: HSGC#1

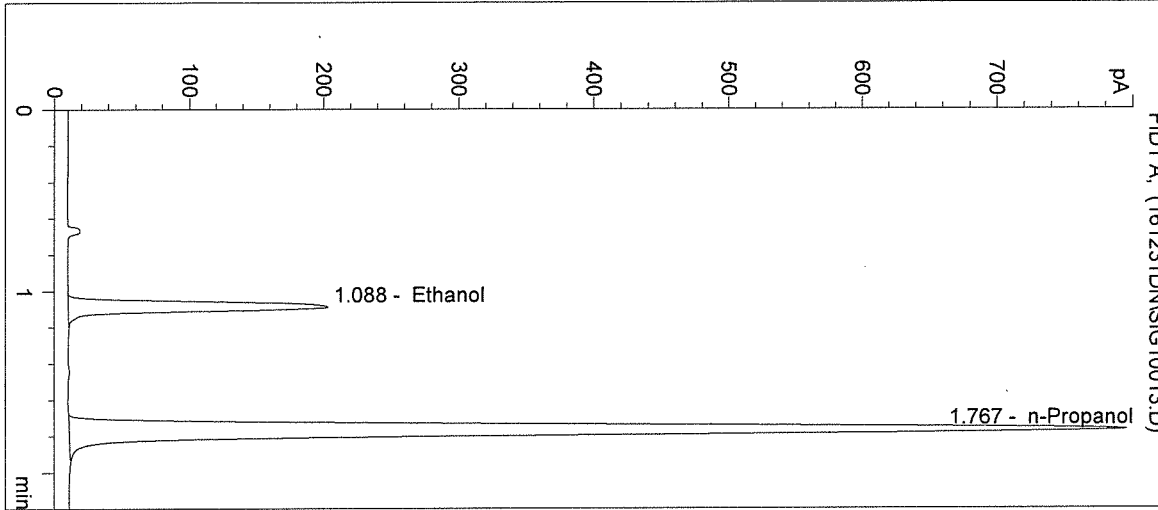
Operator: David Nguyen

Column: DB-ALC1

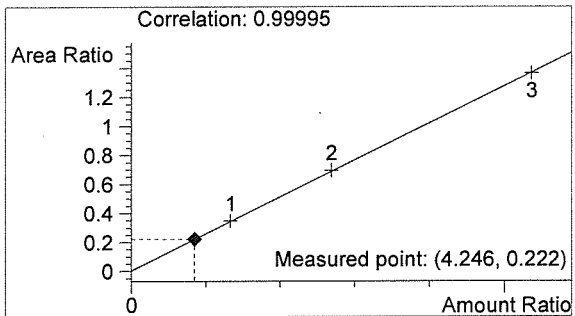
Location: Vial 13

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

Sample Info:

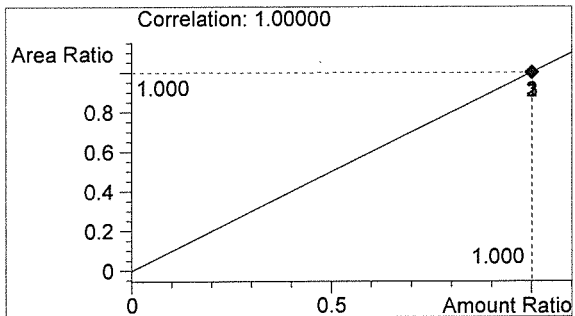


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 661 | 1.088 |
| 2 | n-Propanol | 2980 | 1.767 |



Ethanol 0.051 g/100mL

AW



n-Propanol 0.012 g/100mL

DN

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

Inj. Date: 12/31/2016 10:08:36 AM

Sample Name: 16063 #5

Instrument: HSGC#1

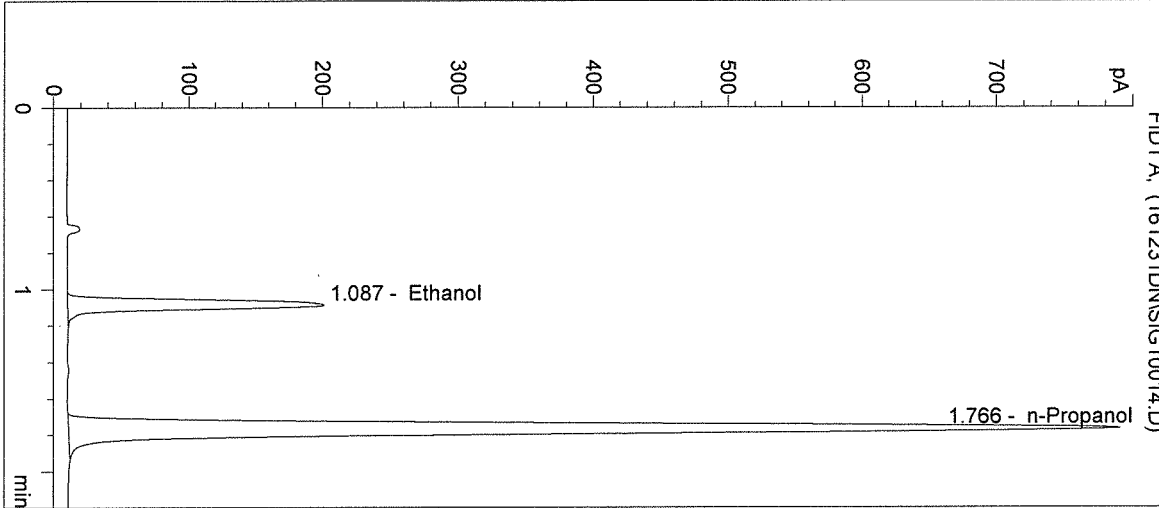
Operator: David Nguyen

Column: DB-ALC1

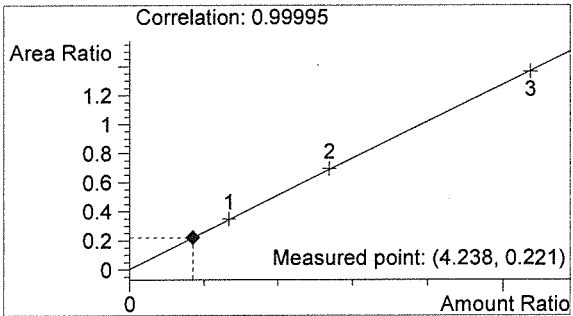
Location: Vial 14

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

Sample Info:

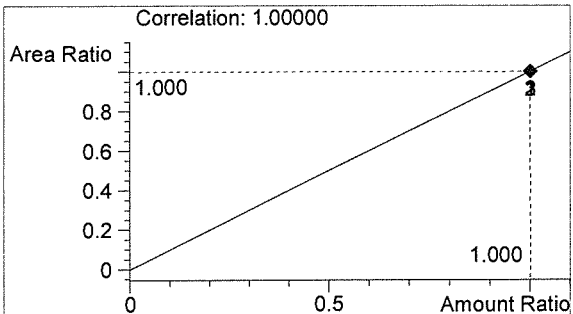


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 653 | 1.087 |
| 2 | n-Propanol | 2950 | 1.766 |



Ethanol 0.051 g/100mL

AWO



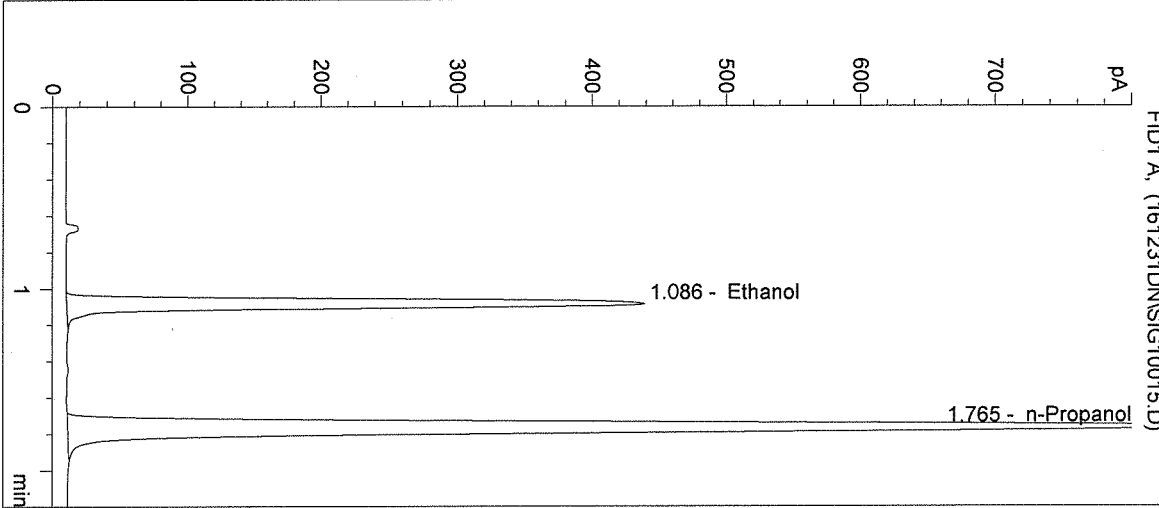
n-Propanol 0.012 g/100mL

DN

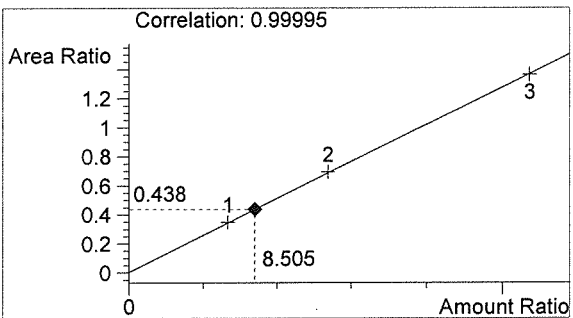
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 12/31/2016 10:11:50 AM Sample Name: POS CTRL (0.10)
 Instrument: HSGC#1 Operator: David Nguyen
 Column: DB-ALC1 Location: Vial 15
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: POS CTRL: 0.10 g/100mL
 16063

->

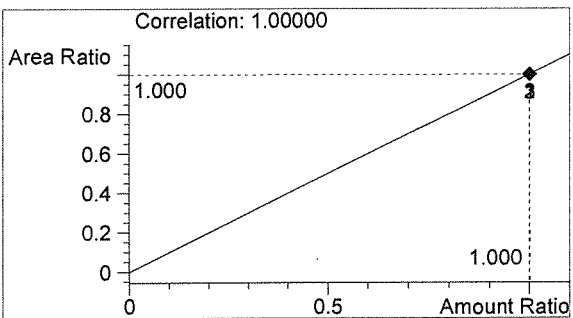


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1463 | 1.086 |
| 2 | n-Propanol | 3340 | 1.765 |



Ethanol 0.102 g/100mL

AWO



n-Propanol 0.012 g/100mL

DN

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

Inj. Date: 12/31/2016 10:15:02 AM

Sample Name: NEG CTRL

Instrument: HSGC#1

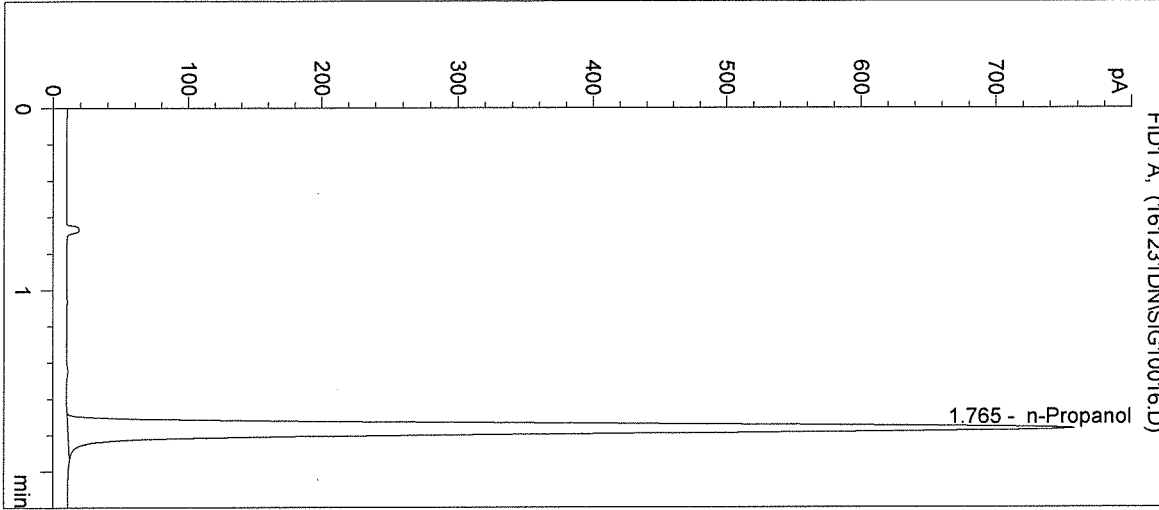
Operator: David Nguyen

Column: DB-ALC1

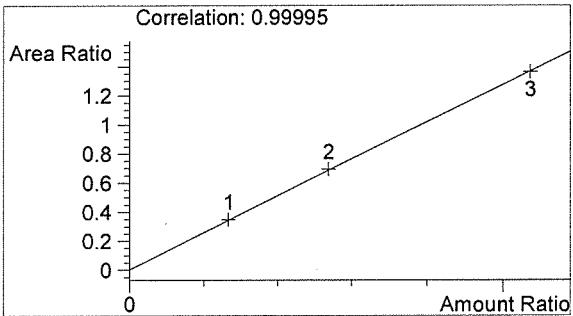
Location: Vial 16

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

Sample Info: 16063

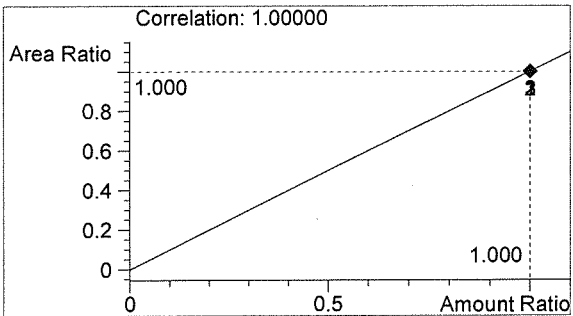


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2826 | 1.765 |



Ethanol 0.000 g/100mL

AWD



n-Propanol 0.012 g/100mL

DZ

Sequence Parameters:

Operator: Elizabeth Wehner
 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: 161231EW
 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: E0916-01 - exp: 03/15/17
 CAL 2: 0.158 g/100mL - Lot: E0916-02 - exp: 03/15/17
 CAL 3: 0.316 g/100mL - Lot: E0916-03 - exp: 03/15/17

 CTRL 1: 0.04 g/100mL - Lot: FN12181501 - exp: 12/2020
 CTRL 2: 0.10 g/100mL - Lot: FN08051301 - exp: 10/2018
 CTRL 3: 0.20 g/100mL - Lot: FN08101505 - exp: 02/2021

 n-Propanol ISTD - Lot: P1116 - exp: 02/23/17

 Calibration vials 1-9 filed with 16063.

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 | CAL 1 (0.079) | SIMALC1 | 1 | Calib | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC1 | 1 | Calib | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC1 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | CTRL 1 (0.04) | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | CTRL 2 (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | CTRL 3 (0.20) | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 16063 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 16063 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 16063 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 16063 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 16063 #5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 16064 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 16064 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 16064 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 16064 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 16064 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 16065 #1 | SIMALC1 | 1 | Sample | | |

16063
 RW 1-12-17

EW

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|-----------------|---------|-----|------------|-----------|----------|
| 25 | Vial 25 | 16065 #2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 16065 #3 | SIMALC1 | 1 | Sample | | |
| 27 | Vial 27 | 16065 #4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 16065 #5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | POS CTRL (0.10) | 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 | CAL 1 (0.079) | SIMALC1 | 1 | Replace | | Replace | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC1 | 2 | Replace | | Replace | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC1 | 3 | Replace | | Replace | | |

Sequence Table (Back Injector):

No entries - empty table!

16063
BW 1.12.17

EW

=====
Calibration Table
=====

Calib. Data Modified : Saturday, December 31, 2016 11:41:29 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 |

16063
BUO 1-12-17

Signal 1: FID1 A,

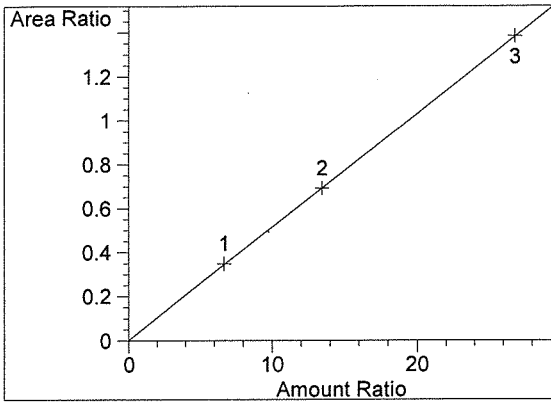
| RetTime [min] | Lvl Sig | Amount [g/100mL] | Area | Amt/Area | Ref Grp Name |
|---------------|---------|------------------|------------|------------|---------------|
| 1.087 | 1 1 | 8.00100e-2 | 1038.64331 | 7.70332e-5 | 1 Ethanol |
| | | 1.61200e-1 | 2025.20837 | 7.95967e-5 | |
| | | 3.21790e-1 | 4092.78345 | 7.86238e-5 | |
| 1.766 | 1 1 | 1.20000e-2 | 2978.76514 | 4.02851e-6 | I1 n-Propanol |
| | | 1.20000e-2 | 2928.25342 | 4.09801e-6 | |
| | | 1.20000e-2 | 2958.99243 | 4.05543e-6 | |

=====
Peak Sum Table
=====

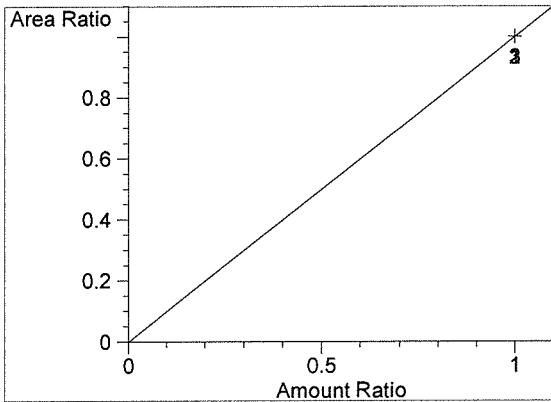
No Entries in table
=====

EW

=====
Calibration Curves
=====



Ethanol at exp. RT: 1.087
FID1 A,
Correlation: 0.99999 ✓
Residual Std. Dev.: 0.00313
Formula: $y = mx + b$
m: 5.15134e-2
b: 1.65615e-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

16063
BUO 1-12-17

EW

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

Inj. Date: 12/31/2016 11:29:23 AM

Sample Name: BLANK

Instrument: HSGC#1

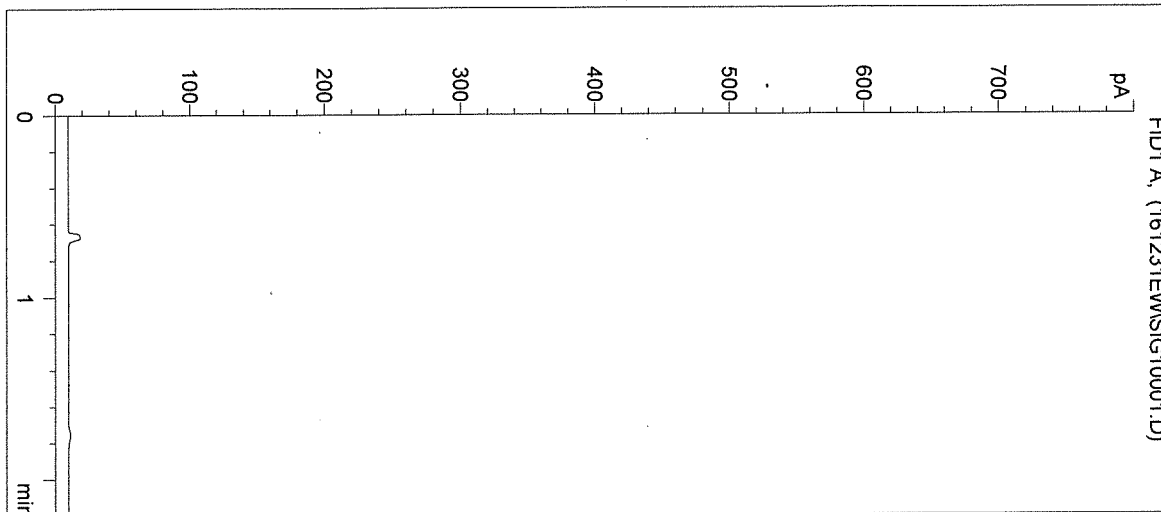
Operator: Elizabeth Wehner

Column: DB-ALC1

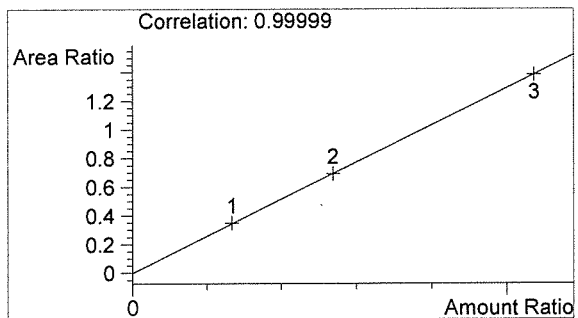
Location: Vial 1

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

Sample Info: 16063

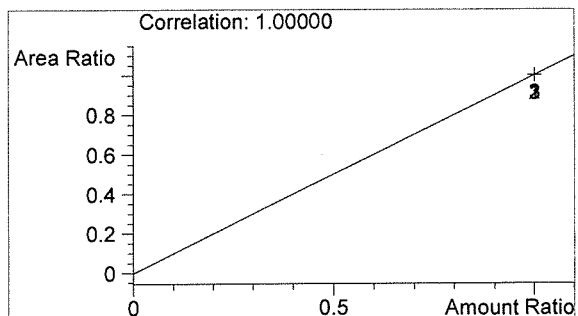


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |



Ethanol 0.000 g/100mL

AWD



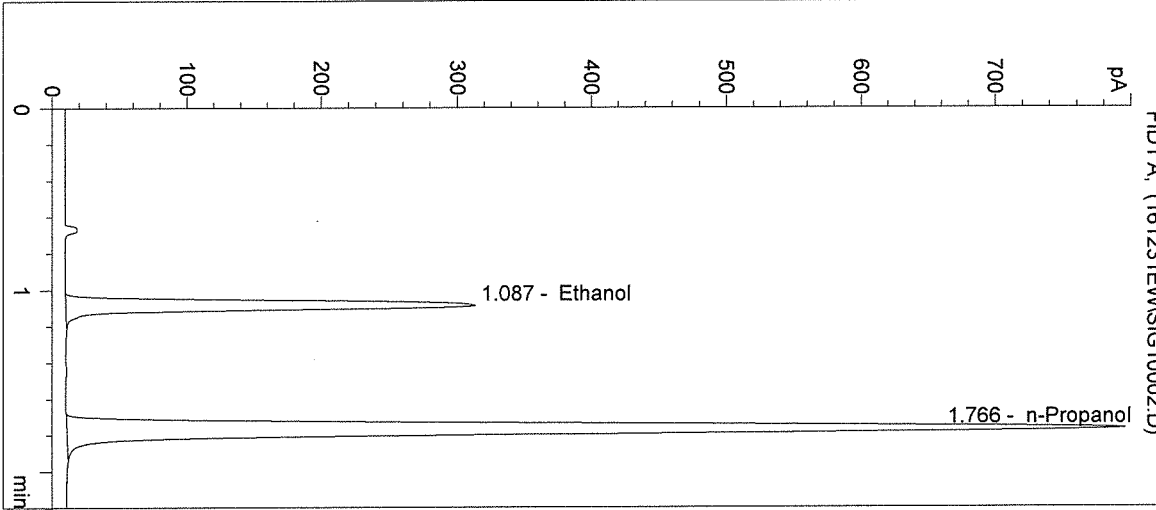
n-Propanol 0.000 g/100mL

EW

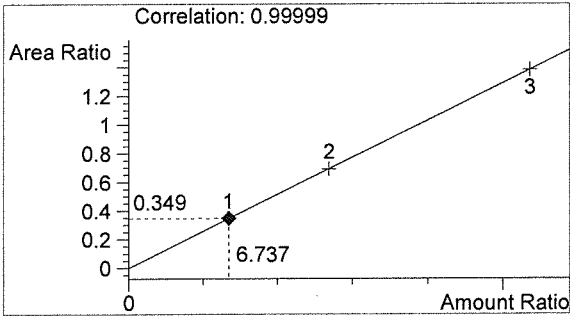
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 12/31/2016 11:32:41 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CAL 1: 0.079 g/100mL
 16063

Sample Name: CAL 1 (0.079)
 Operator: Elizabeth Wehner
 Location: Vial 2

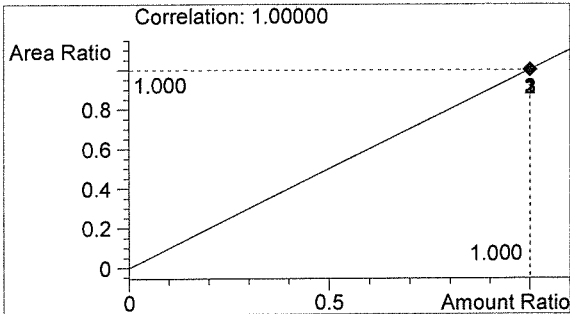


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1039 | 1.087 |
| 2 | n-Propanol | 2979 | 1.766 |



Ethanol 0.081 g/100mL

AW

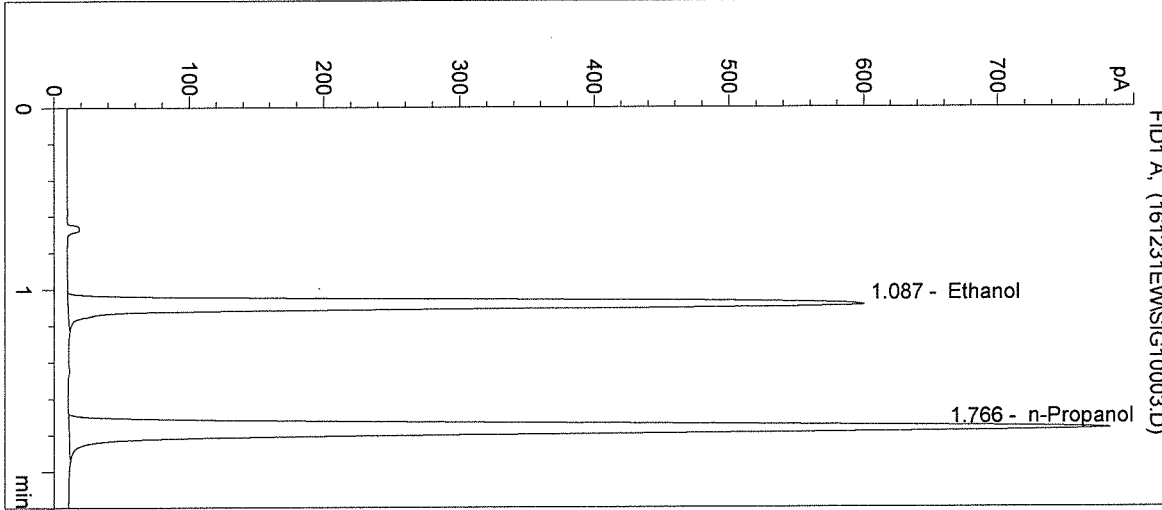


n-Propanol 0.012 g/100mL

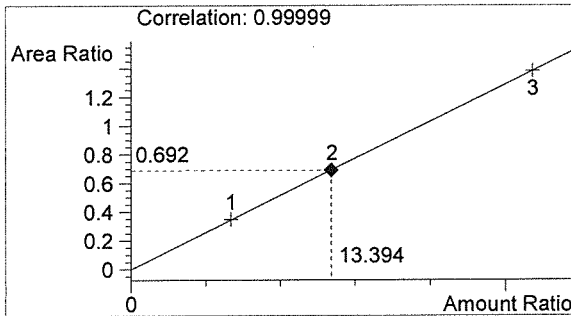
EW

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

Inj. Date: 12/31/2016 11:35:58 AM Sample Name: CAL 2 (0.158)
Instrument: HSGC#1 Operator: Elizabeth Wehner
Column: DB-ALC1 Location: Vial 3
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 2: 0.158 g/100mL
16063

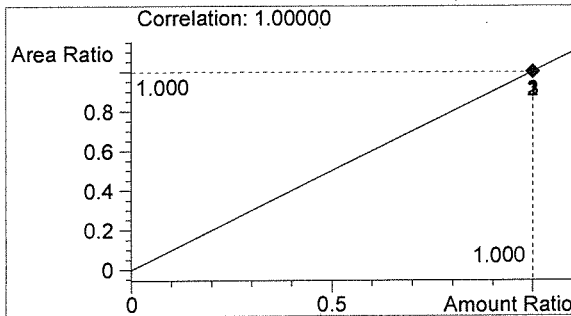


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2025 | 1.087 |
| 2 | n-Propanol | 2928 | 1.766 |



Ethanol 0.161 g/100mL

BW

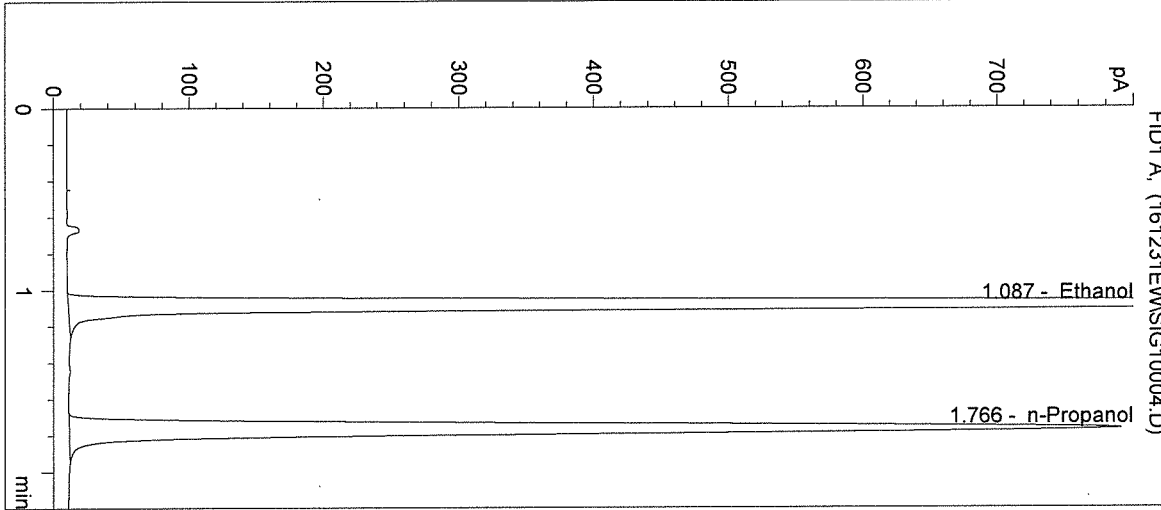


n-Propanol 0.012 g/100mL

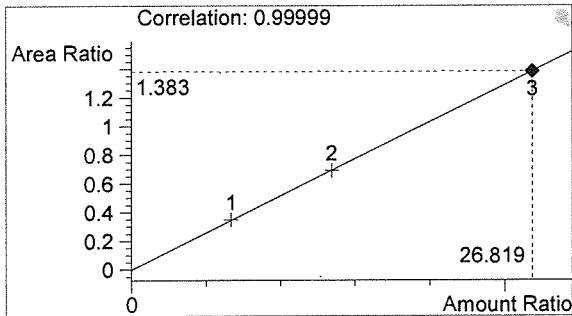
EW

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

Inj. Date: 12/31/2016 11:39:15 AM Sample Name: CAL 3 (0.316)
Instrument: HSGC#1 Operator: Elizabeth Wehner
Column: DB-ALC1 Location: Vial 4
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 3: 0.316 g/100mL
16063

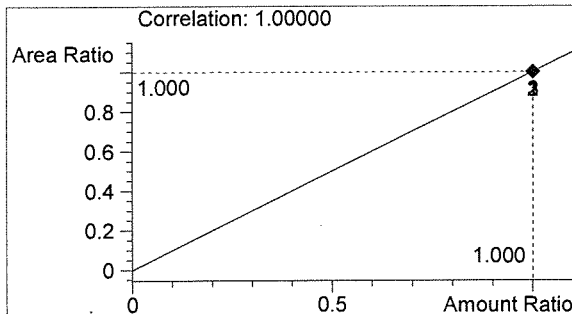


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 4093 | 1.087 |
| 2 | n-Propanol | 2959 | 1.766 |



Ethanol 0.322 g/100mL

AWW

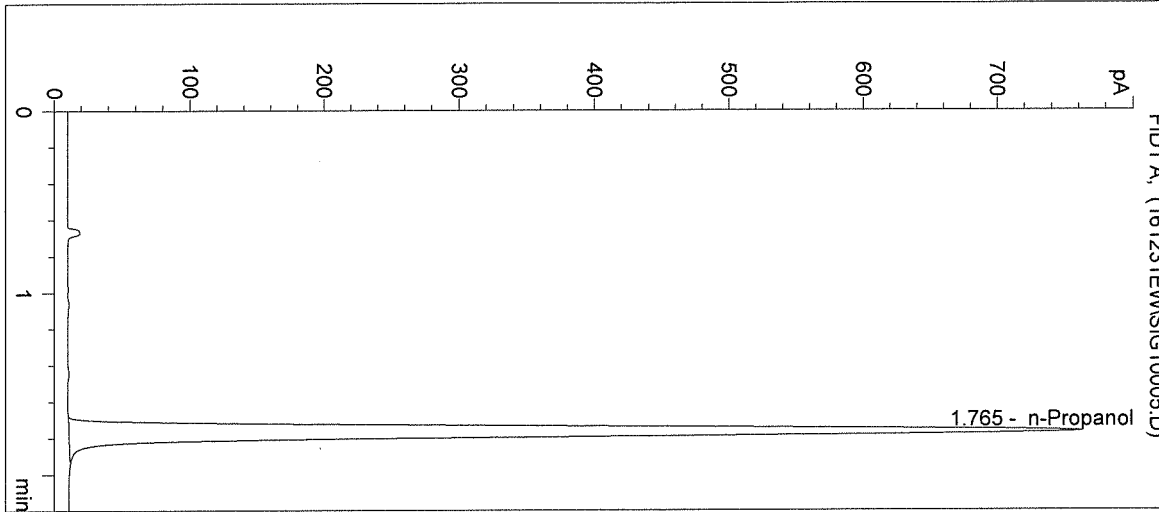


n-Propanol 0.012 g/100mL

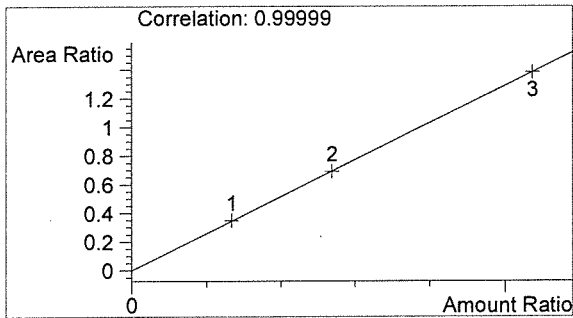
EW

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

Inj. Date: 12/31/2016 11:42:29 AM Sample Name: NEG CTRL
Instrument: HSGC#1 Operator: Elizabeth Wehner
Column: DB-ALC1 Location: Vial 5
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

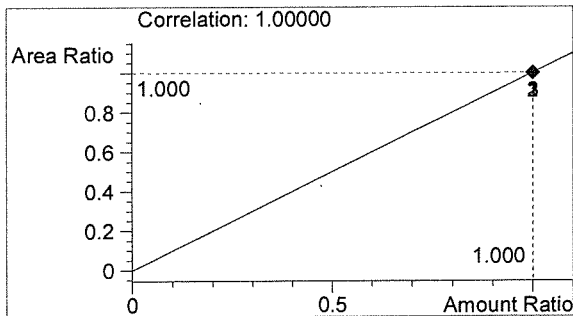


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2844 | 1.765 |



Ethanol 0.000 g/100mL

AWD



n-Propanol 0.012 g/100mL

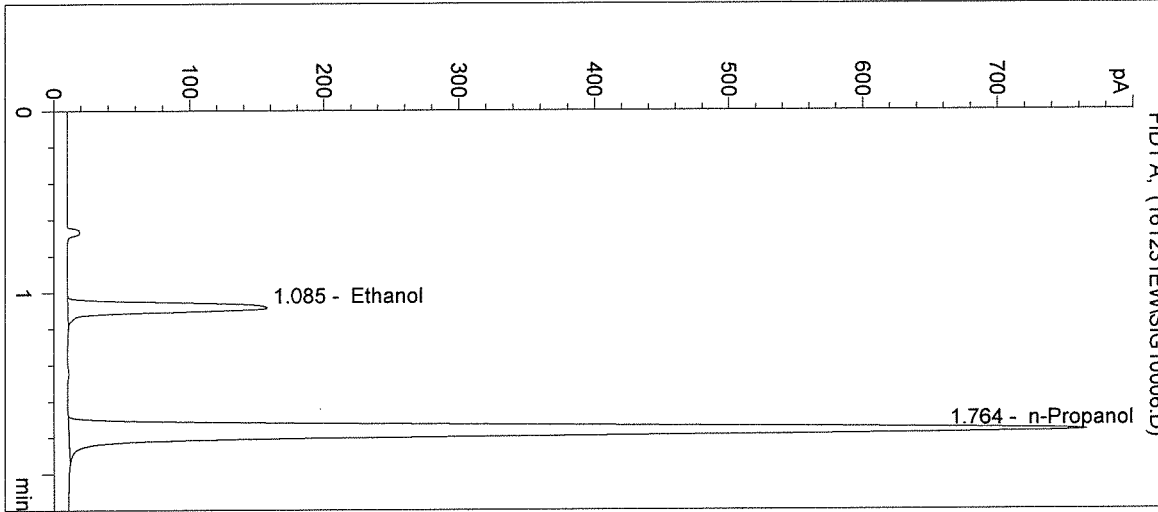
EW

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

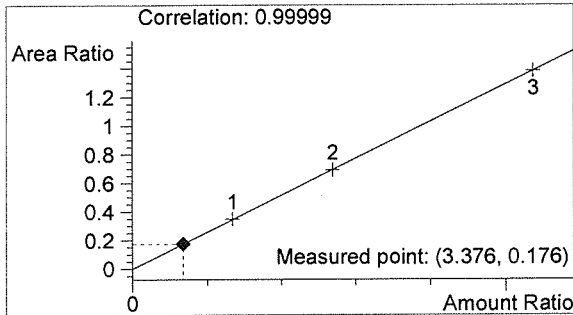
Inj. Date: 12/31/2016 11:45:42 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CTRL 1: 0.04 g/100mL
 16063

Sample Name: CTRL 1 (0.04)
 Operator: Elizabeth Wehner
 Location: Vial 6

->

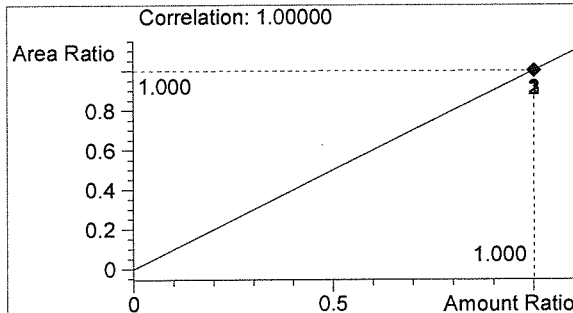


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 501 | 1.085 |
| 2 | n-Propanol | 2852 | 1.764 |



Ethanol 0.041 g/100mL

AWO



n-Propanol 0.012 g/100mL

EW

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

Inj. Date: 12/31/2016 11:48:55 AM

Sample Name: CTRL 2 (0.10)

Instrument: HSGC#1

Operator: Elizabeth Wehner

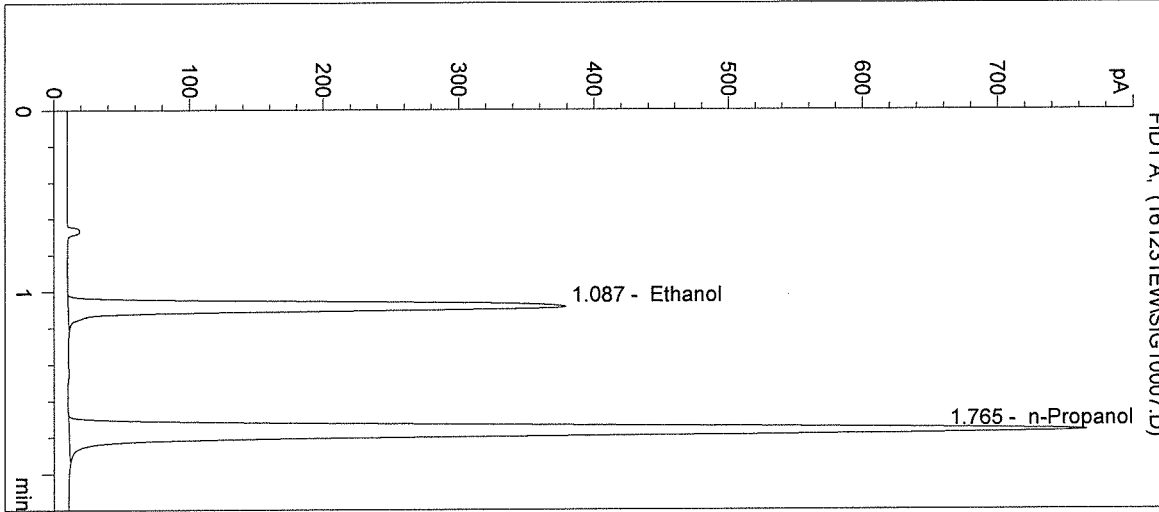
Column: DB-ALC1

Location: Vial 7

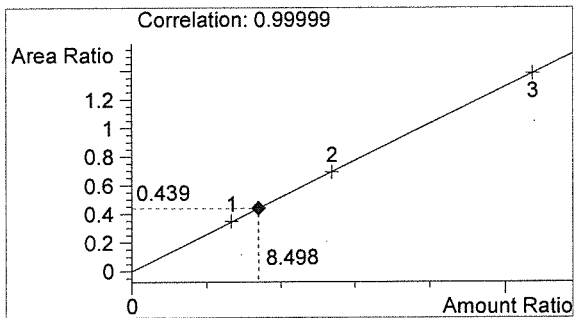
Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Info: CTRL 2: 0.10 g/100mL
 16063

->

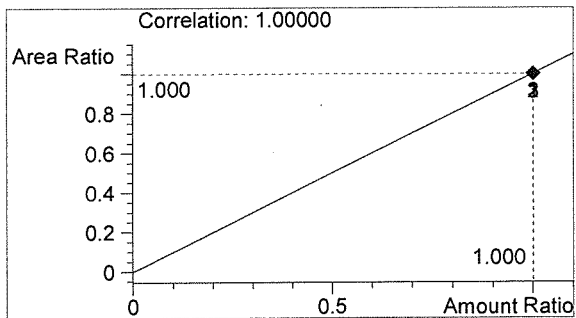


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1257 | 1.087 |
| 2 | n-Propanol | 2861 | 1.765 |



Ethanol 0.102 g/100mL

AWD



n-Propanol 0.012 g/100mL

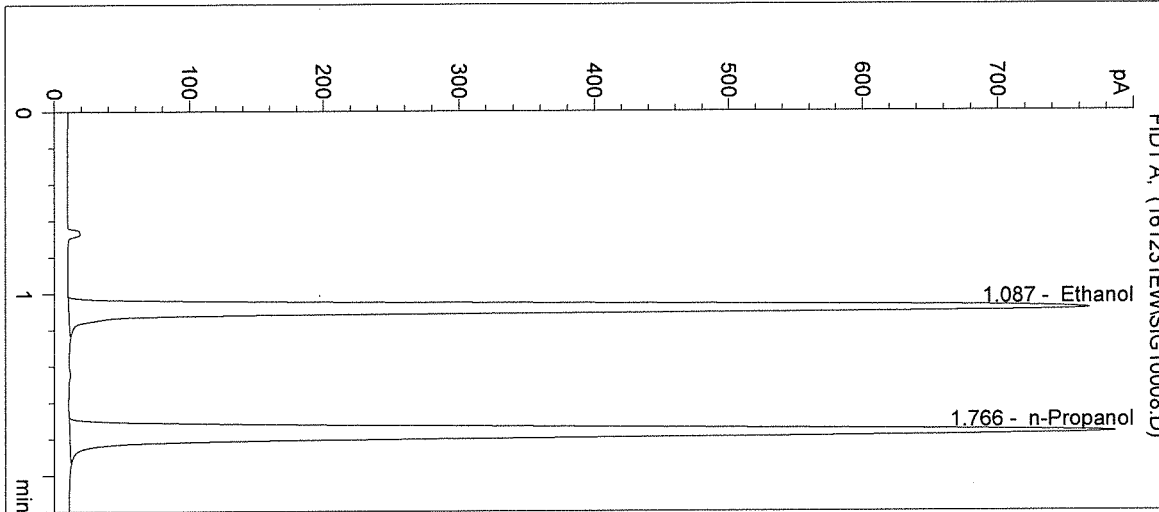
EW

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 2203 Airport Way S Seattle, WA 98134

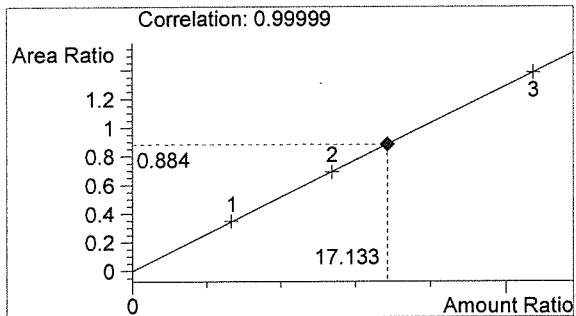
Inj. Date: 12/31/2016 11:52:08 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: CTRL 3: 0.20 g/100mL
 16063

Sample Name: CTRL 3 (0.20)
 Operator: Elizabeth Wehner
 Location: Vial 8

->

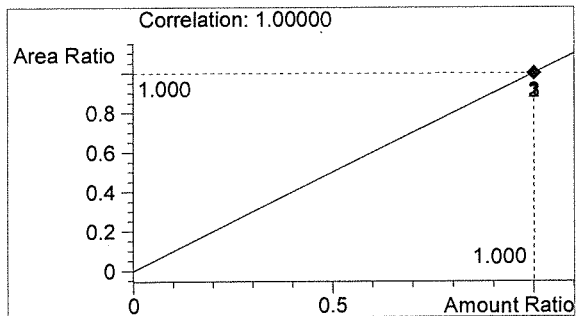


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2601 | 1.087 |
| 2 | n-Propanol | 2941 | 1.766 |



Ethanol 0.206 g/100mL

Buo



n-Propanol 0.012 g/100mL

EW

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

Inj. Date: 12/31/2016 11:55:21 AM

Sample Name: NEG CTRL

Instrument: HSGC#1

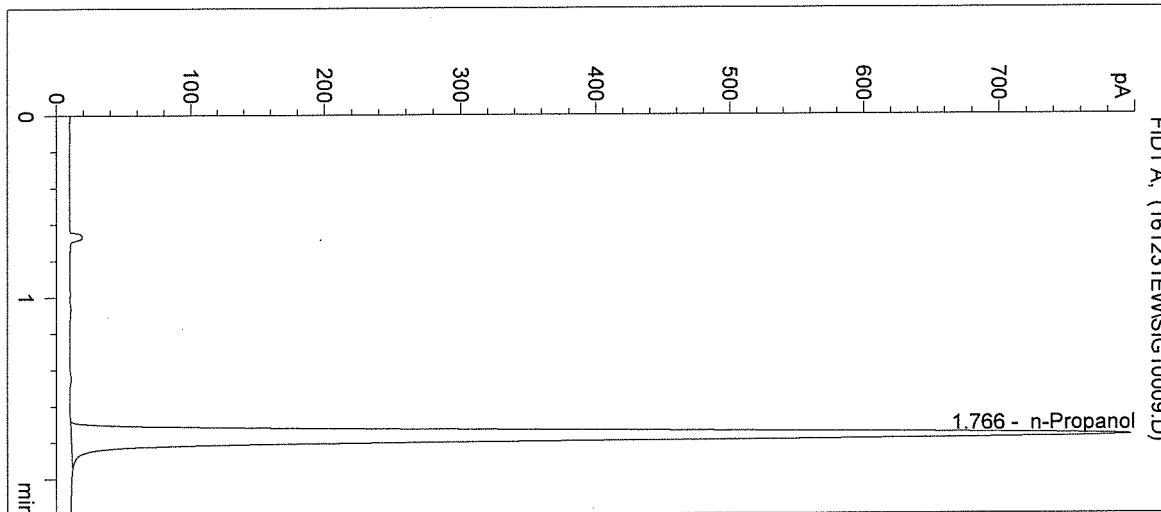
Operator: Elizabeth Wehner

Column: DB-ALC1

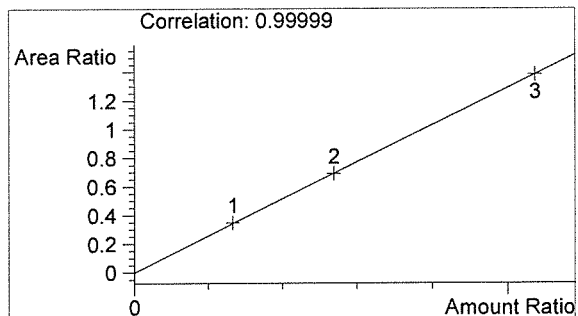
Location: Vial 9

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

Sample Info: 16063

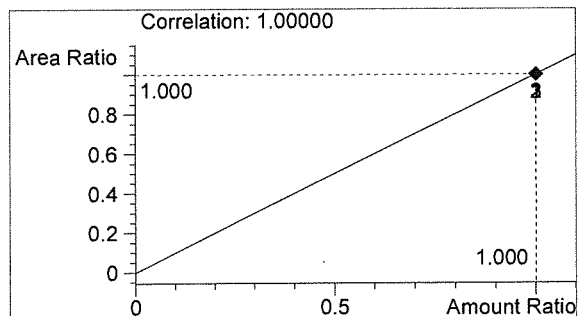


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2977 | 1.766 |



Ethanol 0.000 g/100mL

BW



n-Propanol 0.012 g/100mL

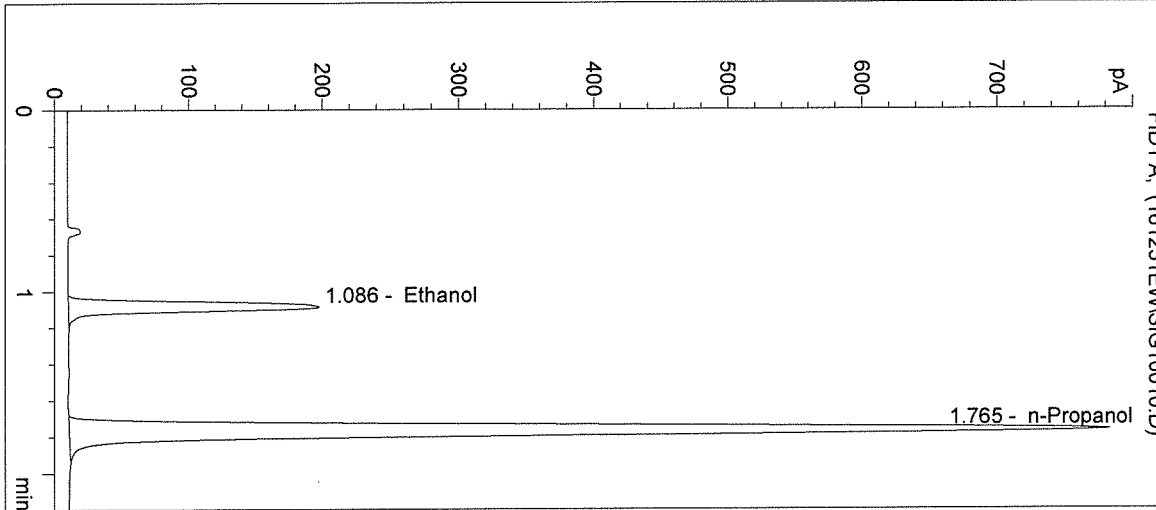
EW

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 2203 Airport Way S Seattle, WA 98134

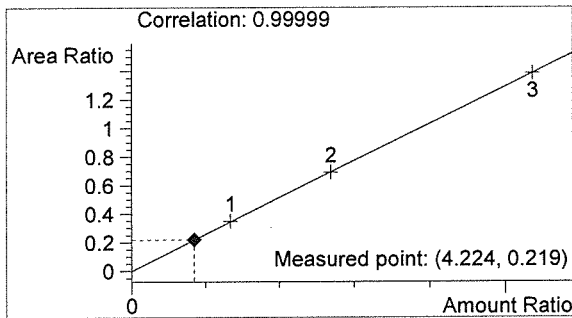
Inj. Date: 12/31/2016 11:58:34 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16063 #1
 Operator: Elizabeth Wehner
 Location: Vial 10

Sample Info:

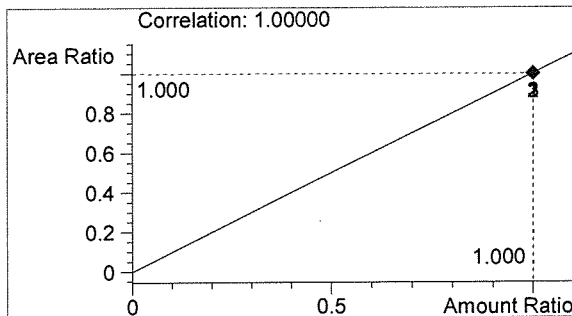


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 644 | 1.086 |
| 2 | n-Propanol | 2936 | 1.765 |



Ethanol 0.051 g/100mL

AW



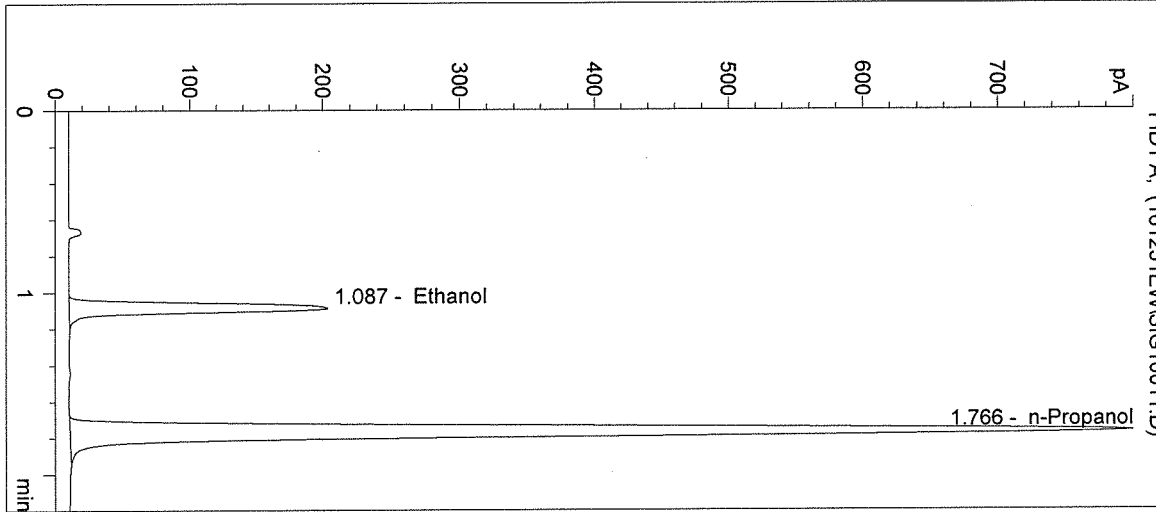
n-Propanol 0.012 g/100mL

EW

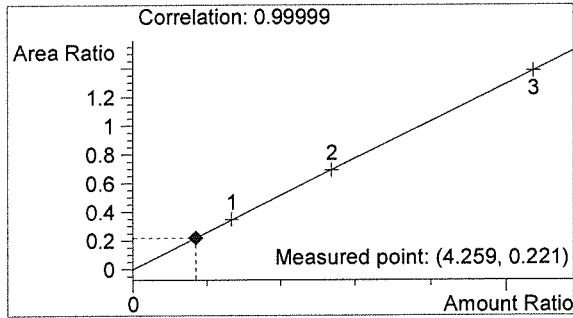
Inj. Date: 12/31/2016 12:01:49 PM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16063 #2
 Operator: Elizabeth Wehner
 Location: Vial 11

Sample Info:

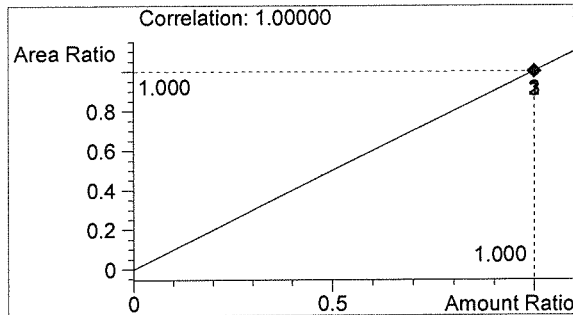


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 663 | 1.087 |
| 2 | n-Propanol | 2998 | 1.766 |



Ethanol 0.051 g/100mL

AW

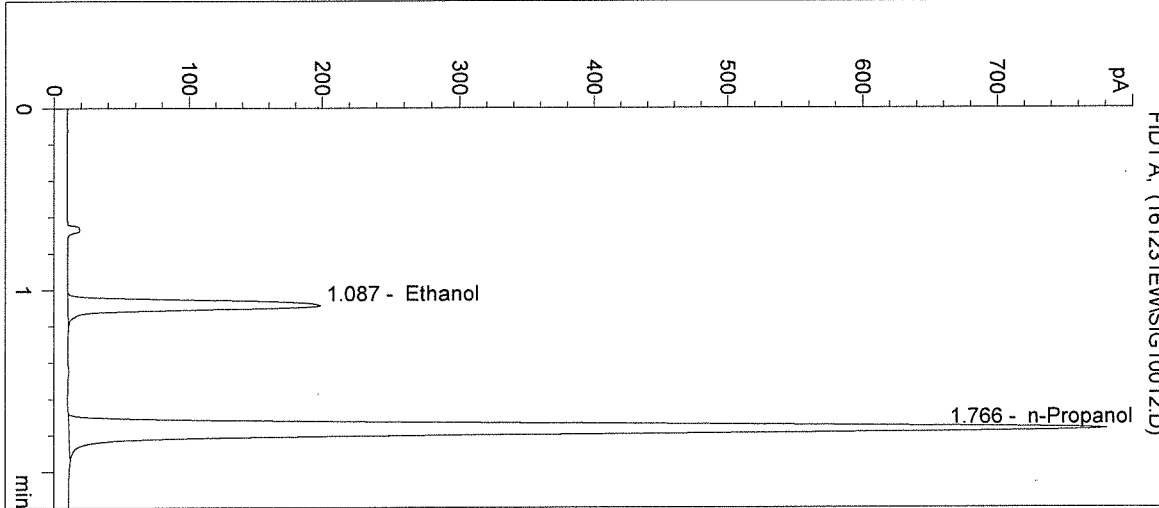


n-Propanol 0.012 g/100mL

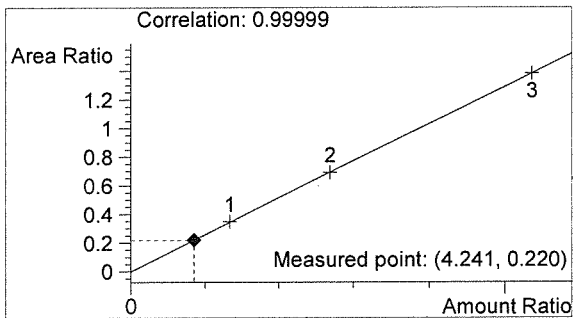
EW

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

Inj. Date: 12/31/2016 12:05:02 PM Sample Name: 16063 #3
Instrument: HSGC#1 Operator: Elizabeth Wehner
Column: DB-ALC1 Location: Vial 12
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

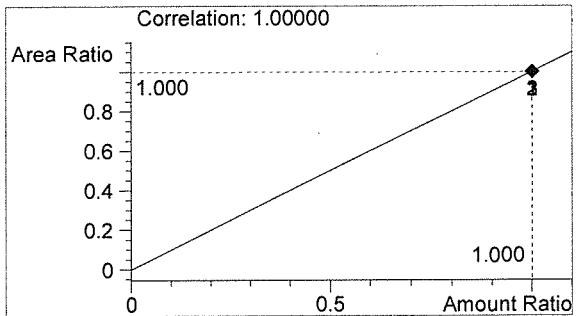


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 643 | 1.087 |
| 2 | n-Propanol | 2923 | 1.766 |



Ethanol 0.051 g/100mL

BW



n-Propanol 0.012 g/100mL

EW

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

Inj. Date: 12/31/2016 12:08:14 PM

Sample Name: 16063 #4

Instrument: HSGC#1

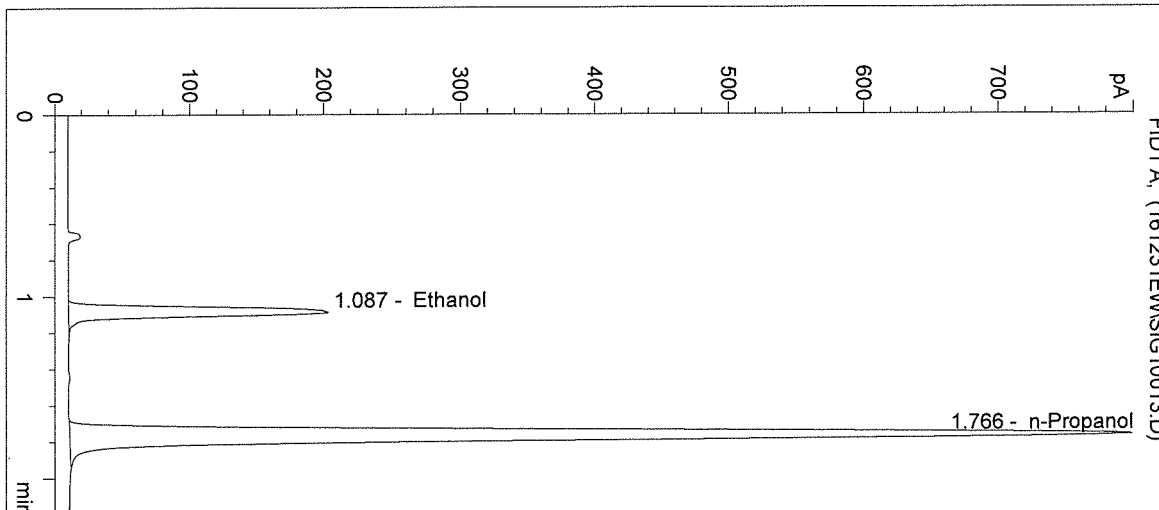
Operator: Elizabeth Wehner

Column: DB-ALC1

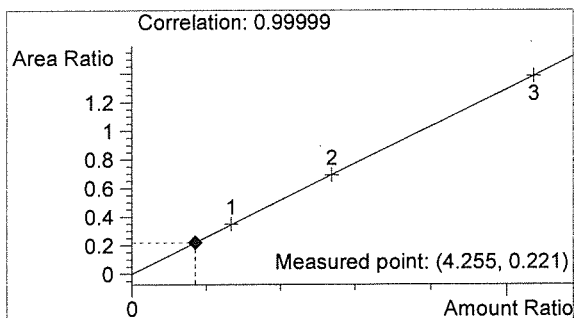
Location: Vial 13

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

Sample Info:

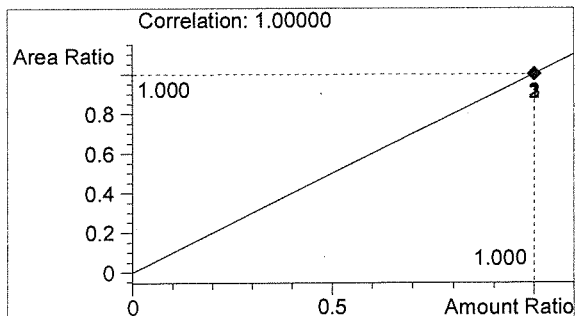


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 662 | 1.087 |
| 2 | n-Propanol | 2997 | 1.766 |



Ethanol 0.051 g/100mL

AWO



n-Propanol 0.012 g/100mL

EW

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

Inj. Date: 12/31/2016 12:11:28 PM

Sample Name: 16063 #5

Instrument: HSGC#1

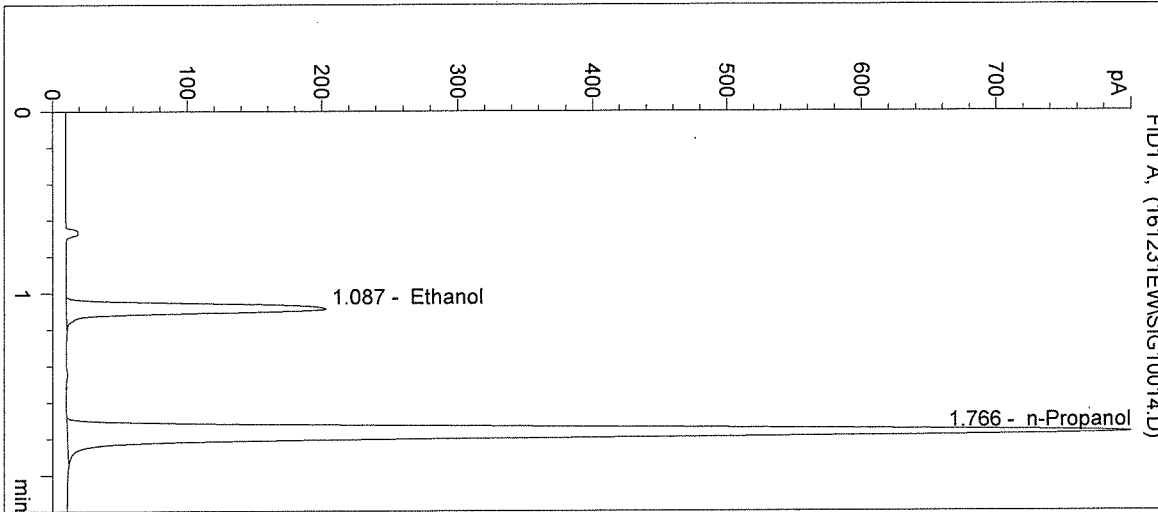
Operator: Elizabeth Wehner

Column: DB-ALC1

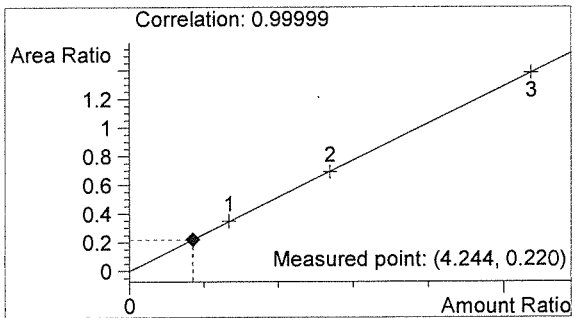
Location: Vial 14

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

Sample Info:

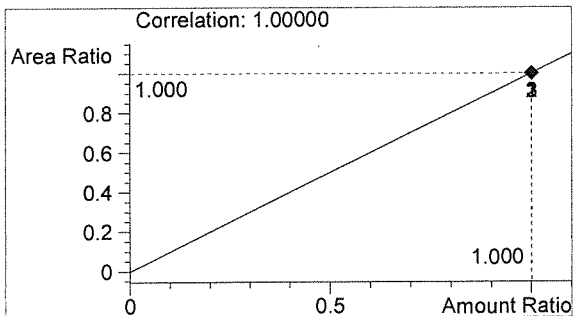


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 661 | 1.087 |
| 2 | n-Propanol | 3001 | 1.766 |



Ethanol 0.051 g/100mL

BLW



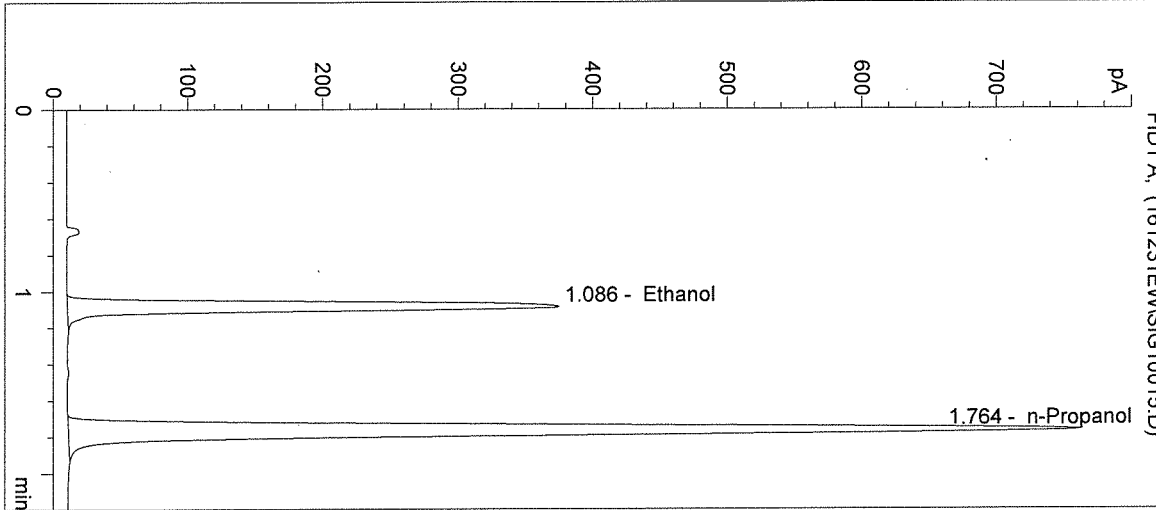
n-Propanol 0.012 g/100mL

EW

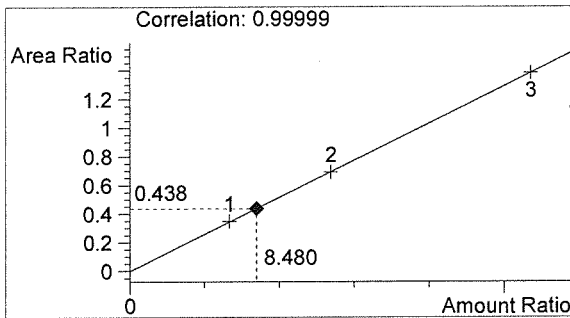
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 12/31/2016 12:14:40 PM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: POS CTRL: 0.10 g/100mL
 16063

Sample Name: POS CTRL (0.10)
 Operator: Elizabeth Wehner
 Location: Vial 15

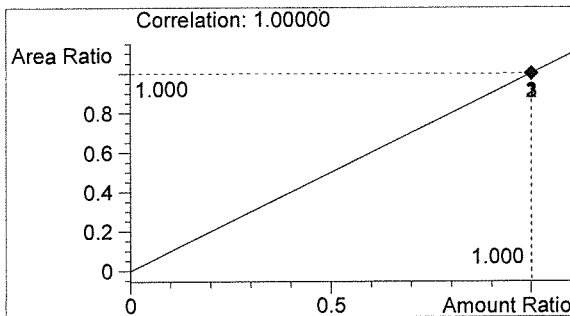


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1248 | 1.086 |
| 2 | n-Propanol | 2847 | 1.764 |



Ethanol 0.102 g/100mL

BW



n-Propanol 0.012 g/100mL

EW

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

Inj. Date: 12/31/2016 12:17:53 PM

Sample Name: NEG CTRL

Instrument: HSGC#1

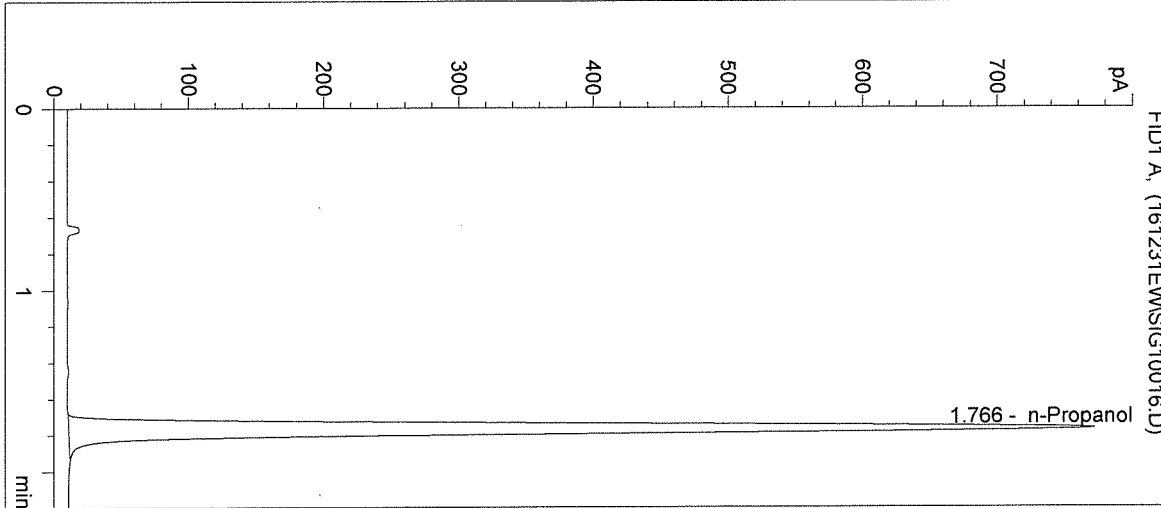
Operator: Elizabeth Wehner

Column: DB-ALC1

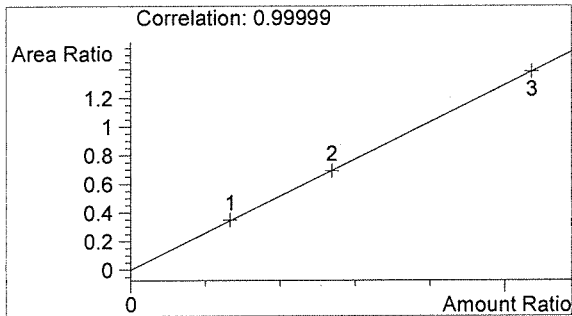
Location: Vial 16

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

Sample Info: 16063

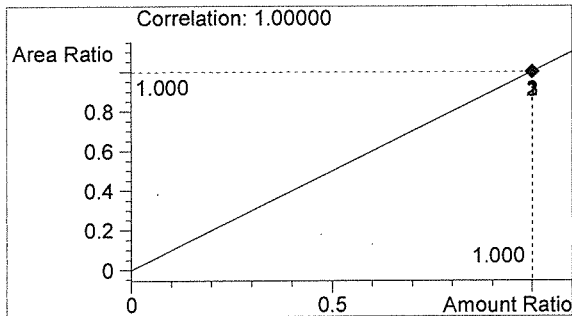


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2894 | 1.766 |



Ethanol 0.000 g/100mL

AW



n-Propanol 0.012 g/100mL

EW

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: 170107AC
 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: E0916-01 - exp: 03/15/17
 CAL 2: 0.158 g/100mL - Lot: E0916-02 - exp: 03/15/17
 CAL 3: 0.316 g/100mL - Lot: E0916-03 - exp: 03/15/17

 CTRL 1: 0.04 g/100mL - Lot: FN12181501 - exp: 12/2020
 CTRL 2: 0.10 g/100mL - Lot: FN08051301 - exp: 10/2018
 CTRL 3: 0.20 g/100mL - Lot: FN08101505 - exp: 02/2021

 n-Propanol ISTD - Lot: P1116 - exp: 02/23/17

 Calibration vials 1-9 filed with 16063.

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 | CAL 1 (0.079) | SIMALC1 | 1 | Calib | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC1 | 1 | Calib | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC1 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | CTRL 1 (0.04) | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | CTRL 2 (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | CTRL 3 (0.20) | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 16063 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 16063 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 16063 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 16063 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 16063 #5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 16064 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 16064 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 16064 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 16064 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 16064 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 16065 #1 | SIMALC1 | 1 | Sample | | |

16063
 BUO 11-2-17

Handwritten mark

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|-----------------|---------|-----|------------|-----------|----------|
| 25 | Vial 25 | 16065 #2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 16065 #3 | SIMALC1 | 1 | Sample | | |
| 27 | Vial 27 | 16065 #4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 16065 #5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 17006 #1 | SIMALC1 | 1 | Sample | | |
| 32 | Vial 32 | 17006 #2 | SIMALC1 | 1 | Sample | | |
| 33 | Vial 33 | 17006 #3 | SIMALC1 | 1 | Sample | | |
| 34 | Vial 34 | 17006 #4 | SIMALC1 | 1 | Sample | | |
| 35 | Vial 35 | 17006 #5 | SIMALC1 | 1 | Sample | | |
| 36 | Vial 36 | POS CTRL (0.10) | SIMALC1 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

Calibration Part:

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

Sequence Table (Back Injector):

No entries - empty table!

160 #63
BUO 1.12.17

AC

=====
Calibration Table
=====

Calib. Data Modified : Saturday, January 07, 2017 10:44:25 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 Name
[g/100mL]
-----|-----|-----
1 1.20000e-2 n-Propanol

16063
BUO 1-12-17

Signal 1: FID1 A,

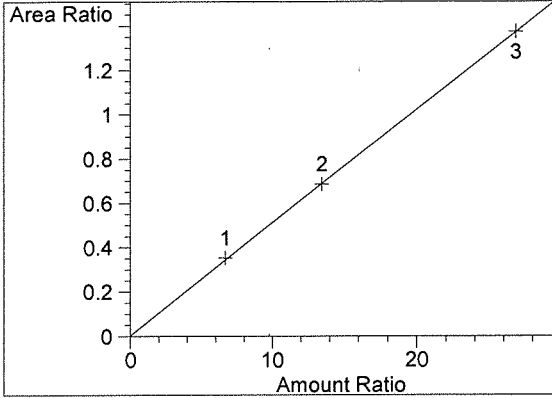
| RetTime [min] | Lvl Sig | Amount [g/100mL] | Area | Amt/Area | Ref Grp Name |
|---------------|---------|------------------|------------|------------|---------------|
| 1.086 | 1 1 | 8.00100e-2 | 1041.03955 | 7.68559e-5 | 1 Ethanol |
| | 2 | 1.61200e-1 | 1946.26318 | 8.28254e-5 | |
| | 3 | 3.21790e-1 | 3916.07471 | 8.21716e-5 | |
| 1.765 | 1 1 | 1.20000e-2 | 2954.44092 | 4.06168e-6 | I1 n-Propanol |
| | 2 | 1.20000e-2 | 2839.37793 | 4.22628e-6 | |
| | 3 | 1.20000e-2 | 2851.28076 | 4.20863e-6 | |

=====
Peak Sum Table
=====

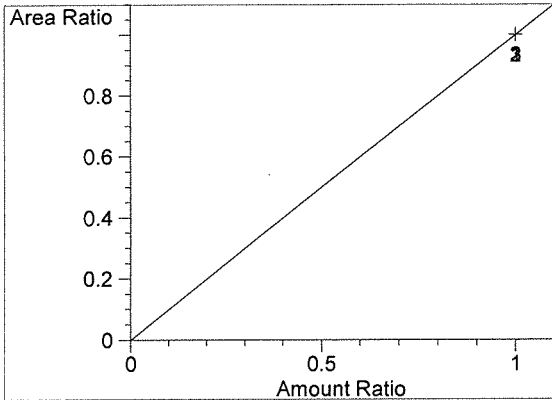
No Entries in table
=====

AR

=====
Calibration Curves
=====



Ethanol at exp. RT: 1.086
FID1 A,
Correlation: 0.99995
Residual Std. Dev.: 0.00702
Formula: $y = mx + b$
m: 5.10668e-2
b: 3.84492e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.765
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

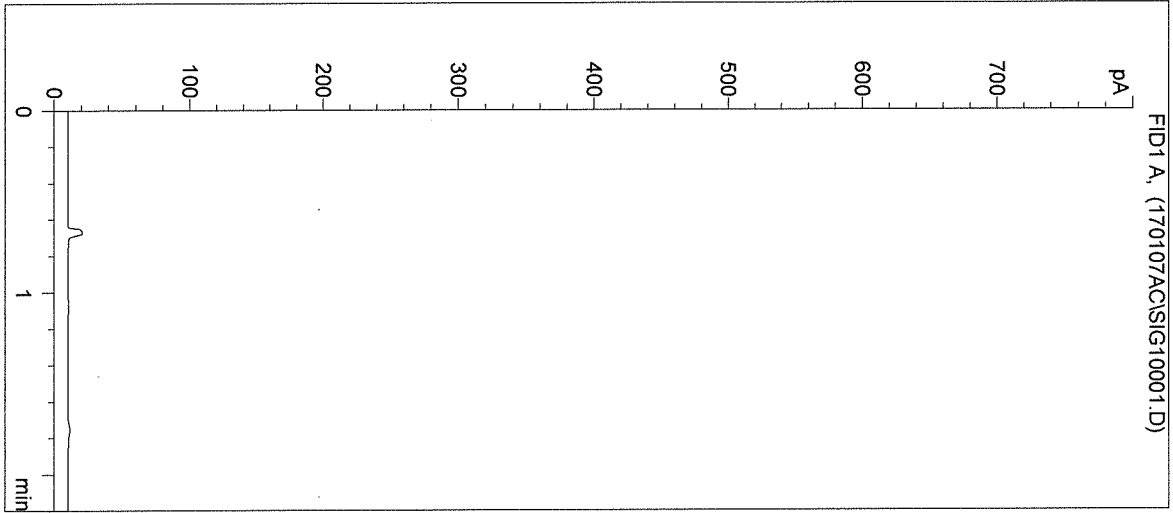
=====

16063
BLW 1-12-17

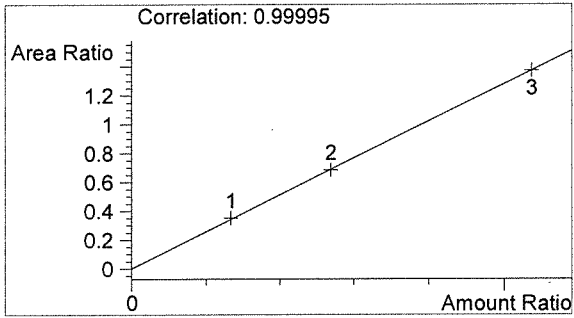
AE

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

Inj. Date: 1/7/2017 10:32:19 AM Sample Name: BLANK
Instrument: HSGC#1 Operator: Amanda Chandler
Column: DB-ALC1 Location: Vial 1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

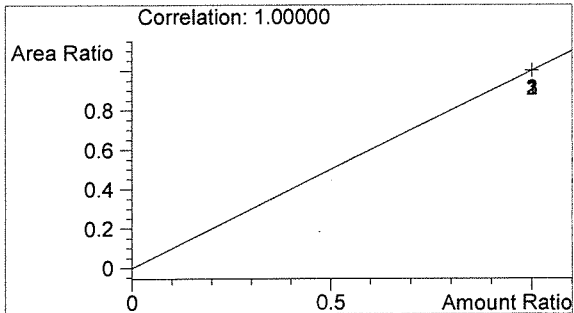


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 0 | 0.000 |



Ethanol 0.000 g/100mL

AWO



n-Propanol 0.000 g/100mL

AC

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

Inj. Date: 1/7/2017 10:35:37 AM

Sample Name: CAL 1 (0.079)

Instrument: HSGC#1

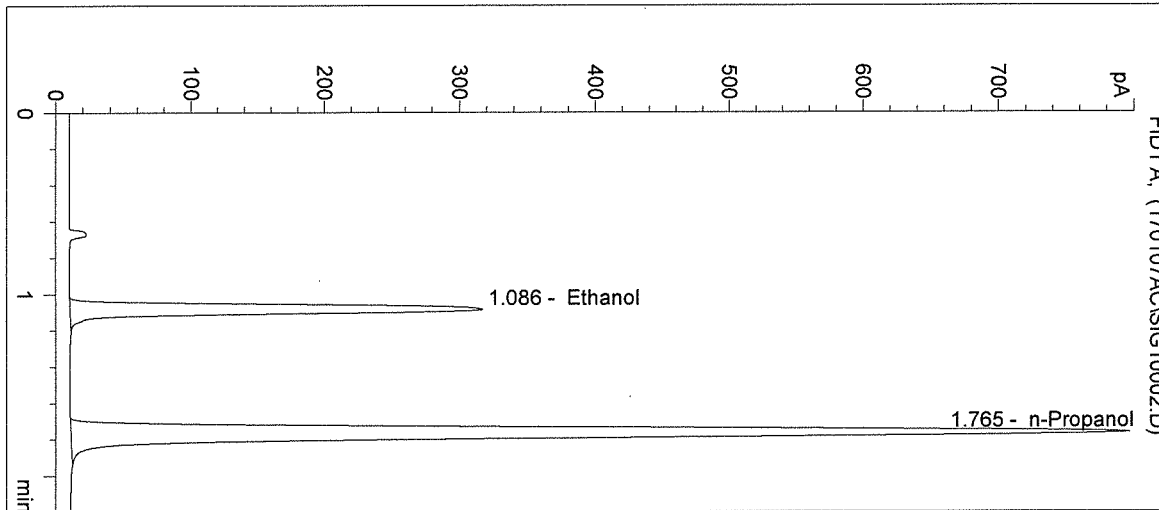
Operator: Amanda Chandler

Column: DB-ALC1

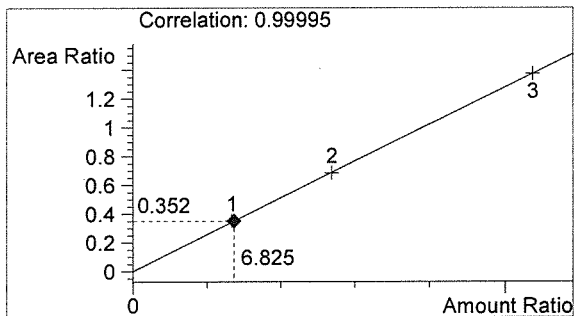
Location: Vial 2

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

Sample Info: 16063

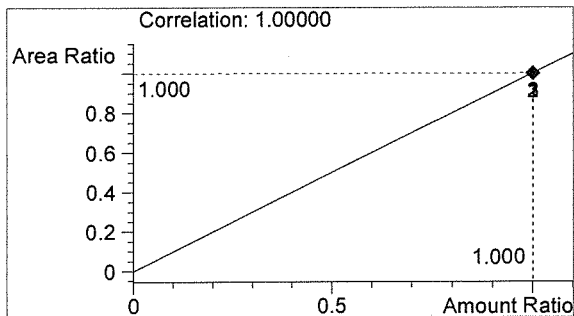


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1041 | 1.086 |
| 2 | n-Propanol | 2954 | 1.765 |



Ethanol 0.082 g/100mL

BW



n-Propanol 0.012 g/100mL

AR

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

Inj. Date: 1/7/2017 10:38:55 AM

Sample Name: CAL 2 (0.158)

Instrument: HSGC#1

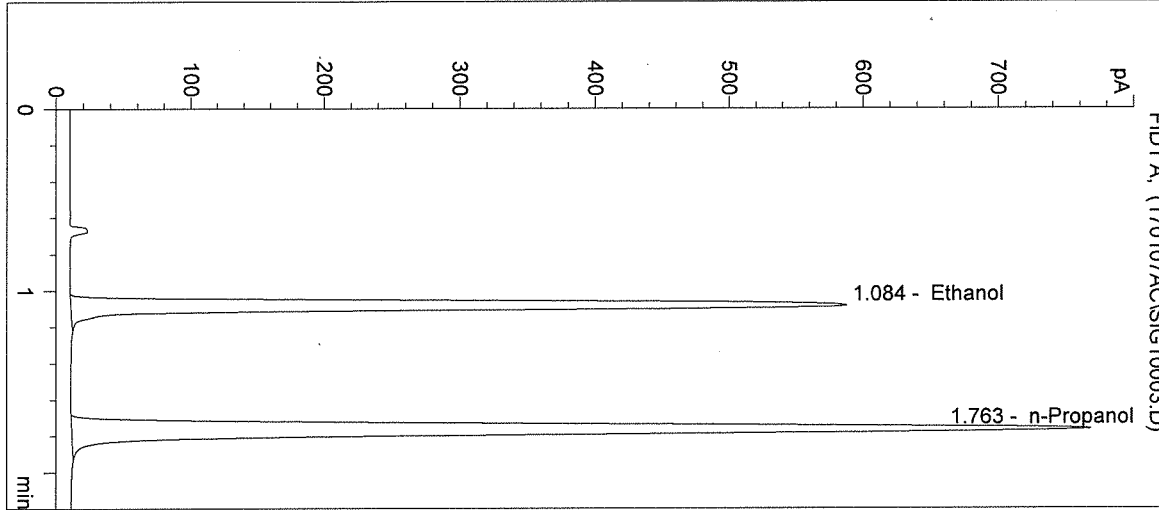
Operator: Amanda Chandler

Column: DB-ALC1

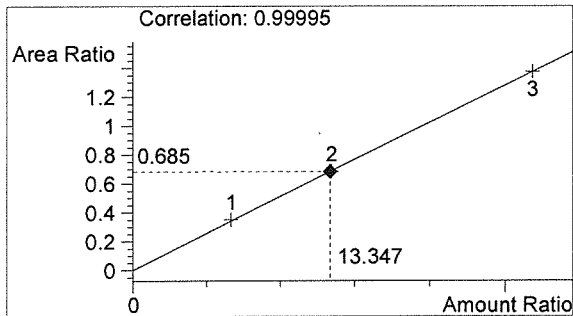
Location: Vial 3

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

Sample Info: 16063

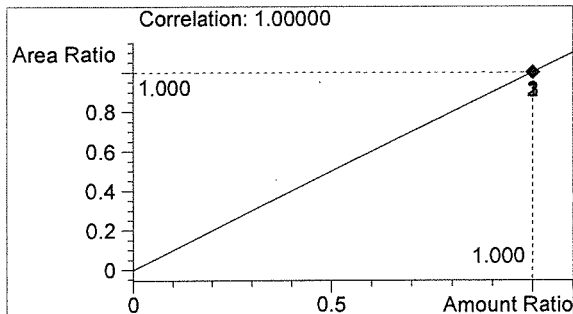


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1946 | 1.084 |
| 2 | n-Propanol | 2839 | 1.763 |



Ethanol 0.160 g/100mL

Buo



n-Propanol 0.012 g/100mL

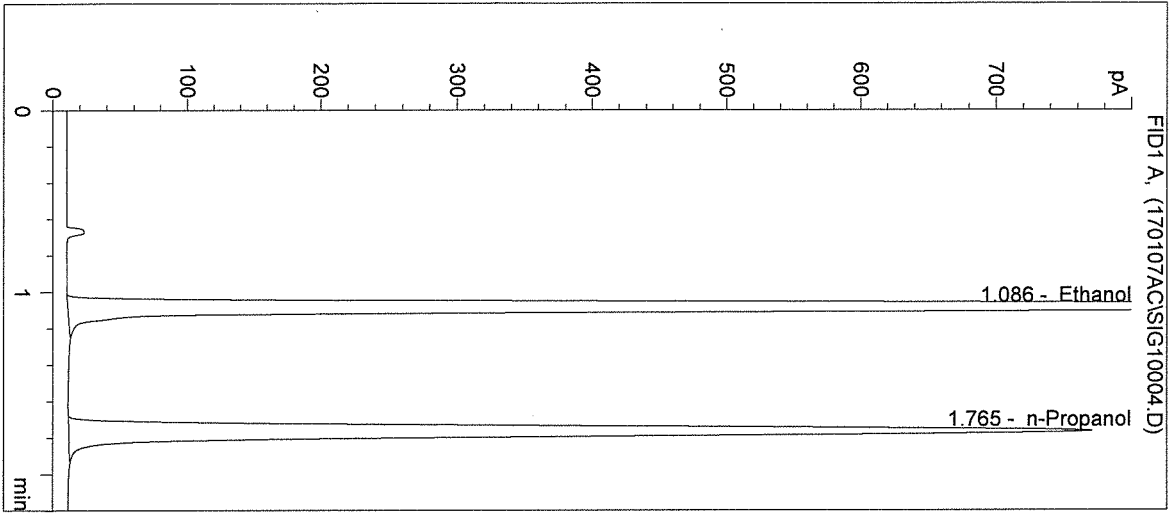
Ar

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

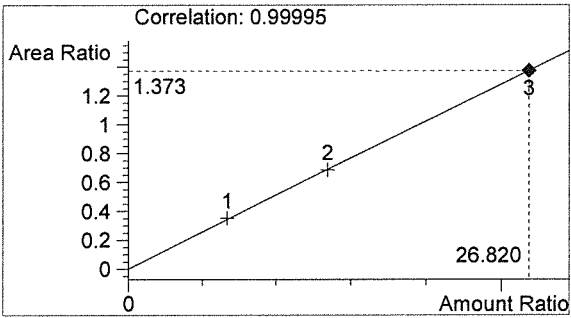
Inj. Date: 1/7/2017 10:42:12 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M

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

Sample Info: 16063

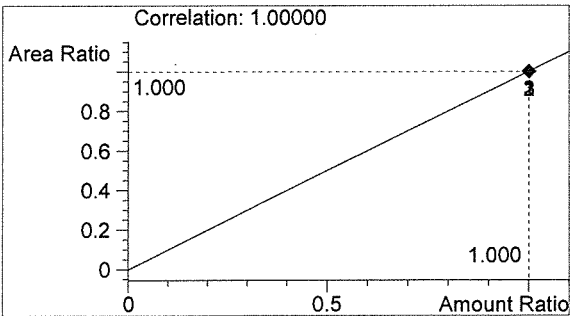


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 3916 | 1.086 |
| 2 | n-Propanol | 2851 | 1.765 |



Ethanol 0.322 g/100mL

BW



n-Propanol 0.012 g/100mL

AR

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

Inj. Date: 1/7/2017 10:45:24 AM

Sample Name: NEG CTRL

Instrument: HSGC#1

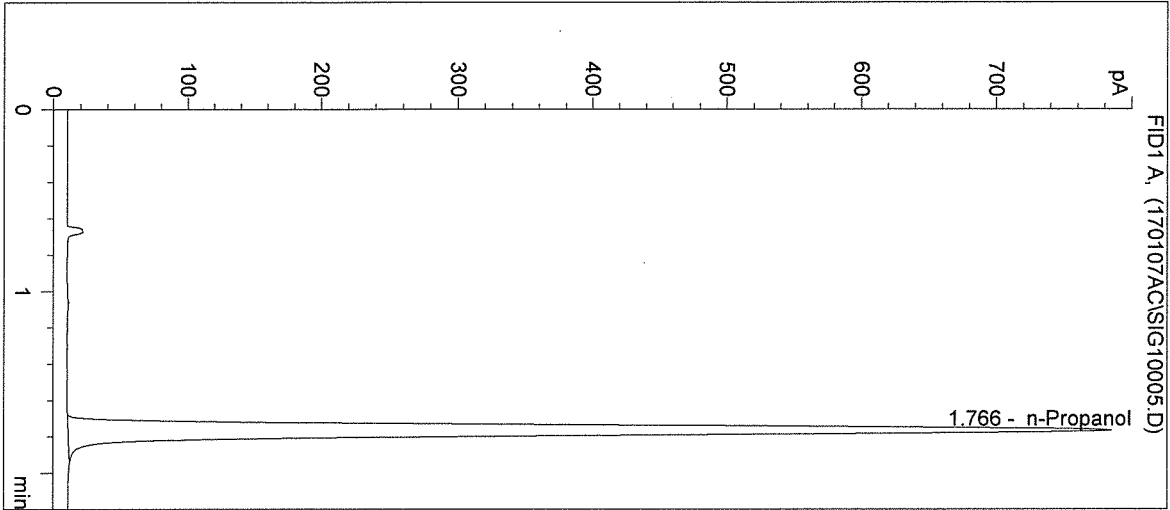
Operator: Amanda Chandler

Column: DB-ALC1

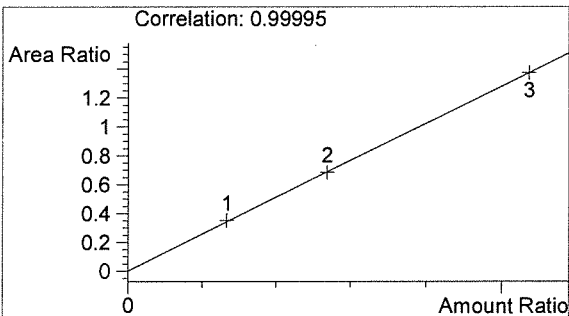
Location: Vial 5

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

Sample Info: 16063

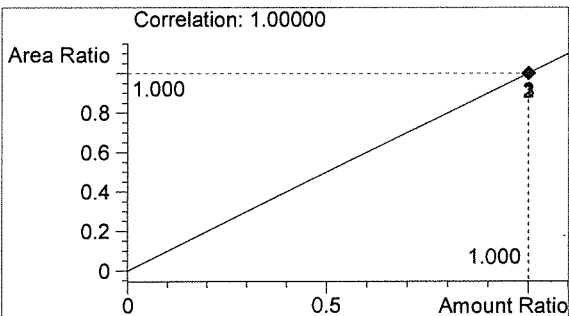


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2915 | 1.766 |



Ethanol 0.000 g/100mL

BWD



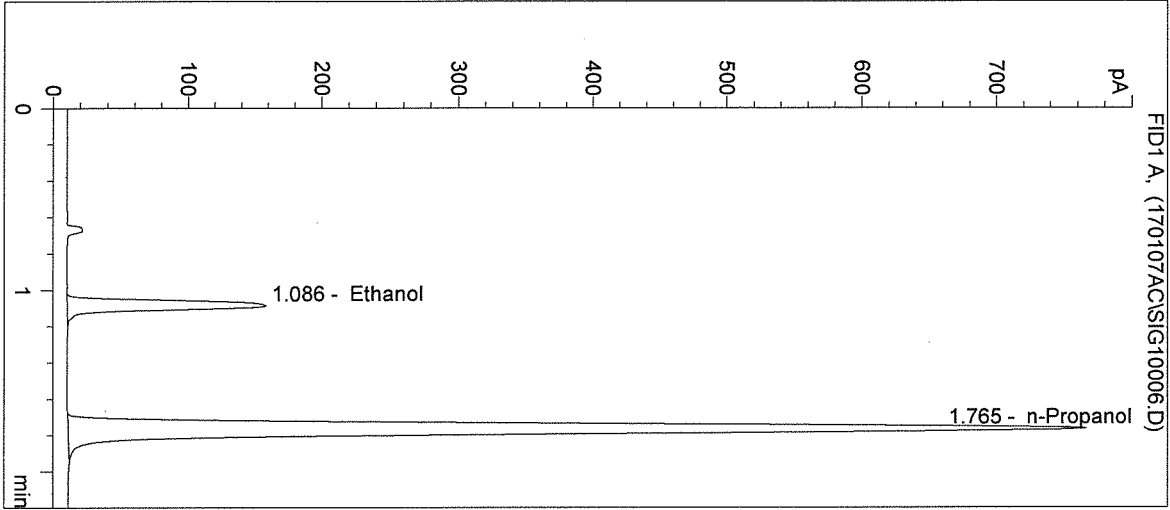
n-Propanol 0.012 g/100mL

AR

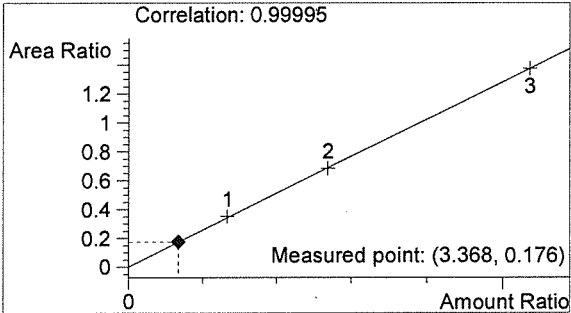
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/7/2017 10:48:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

Sample Name: CTRL 1 (0.04)
Operator: Amanda Chandler
Location: Vial 6

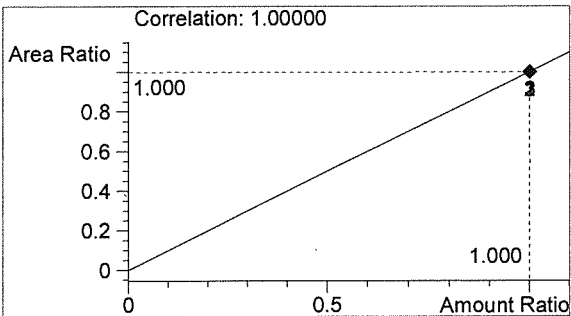


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 498 | 1.086 |
| 2 | n-Propanol | 2833 | 1.765 |



Ethanol 0.040 g/100mL

AWO



n-Propanol 0.012 g/100mL

AR

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

Inj. Date: 1/7/2017 10:51:53 AM

Sample Name: CTRL 2 (0.10)

Instrument: HSGC#1

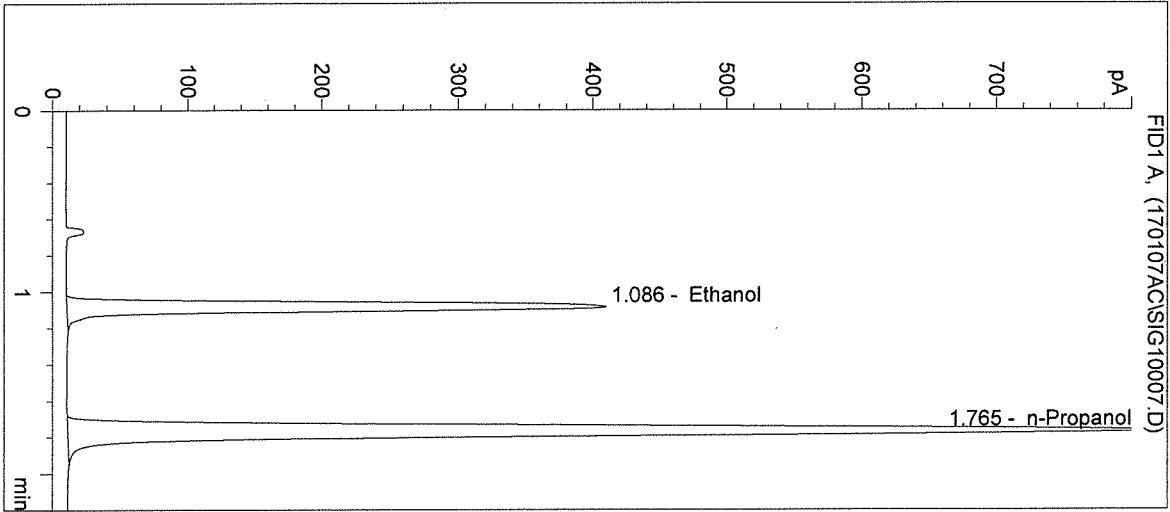
Operator: Amanda Chandler

Column: DB-ALC1

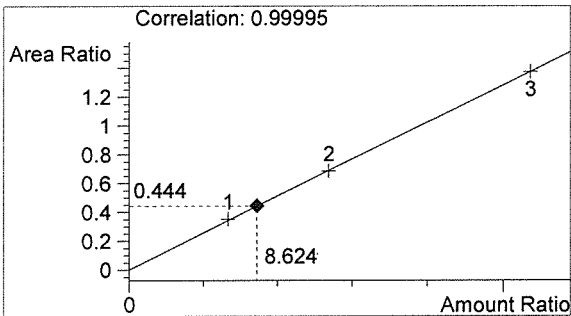
Location: Vial 7

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

Sample Info: 16063

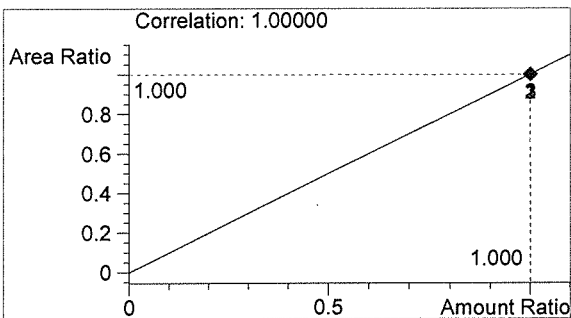


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1354 | 1.086 |
| 2 | n-Propanol | 3047 | 1.765 |



Ethanol 0.103 g/100mL

AWO



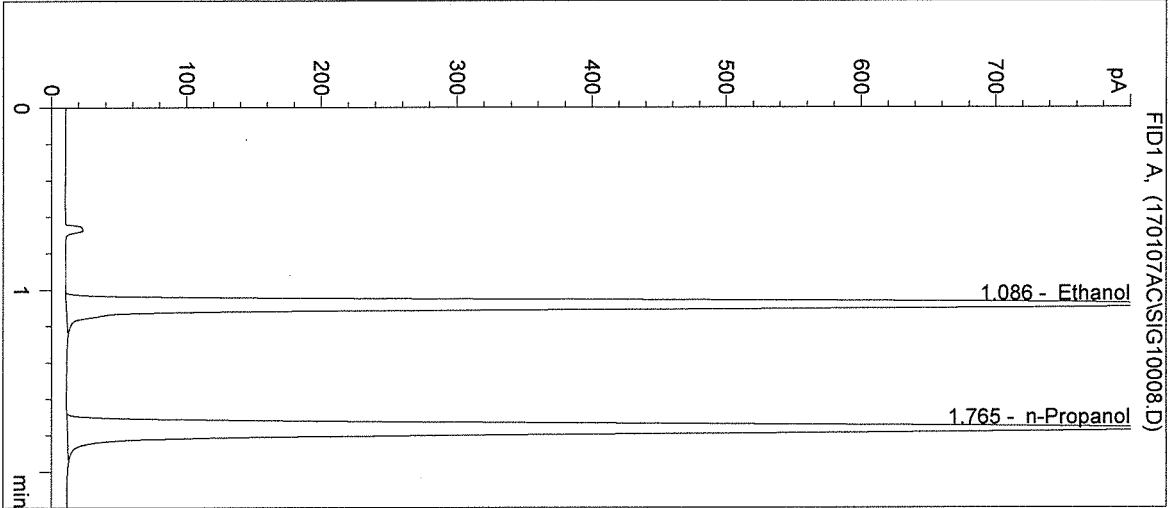
n-Propanol 0.012 g/100mL

AR

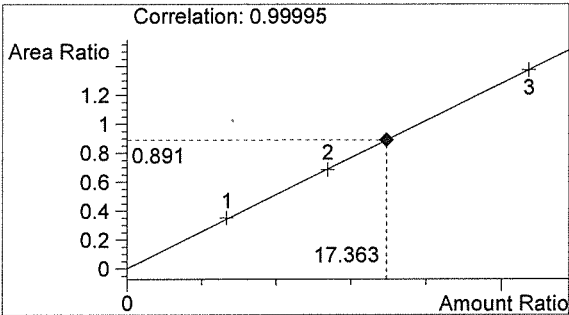
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/7/2017 10:55:07 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: 16063

Sample Name: CTRL 3 (0.20)
 Operator: Amanda Chandler
 Location: Vial 8

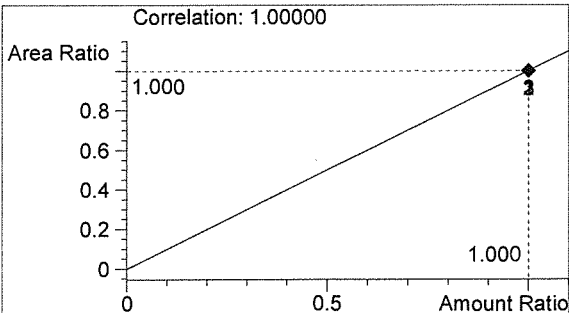


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2790 | 1.086 |
| 2 | n-Propanol | 3133 | 1.765 |



Ethanol 0.208 g/100mL

BWD

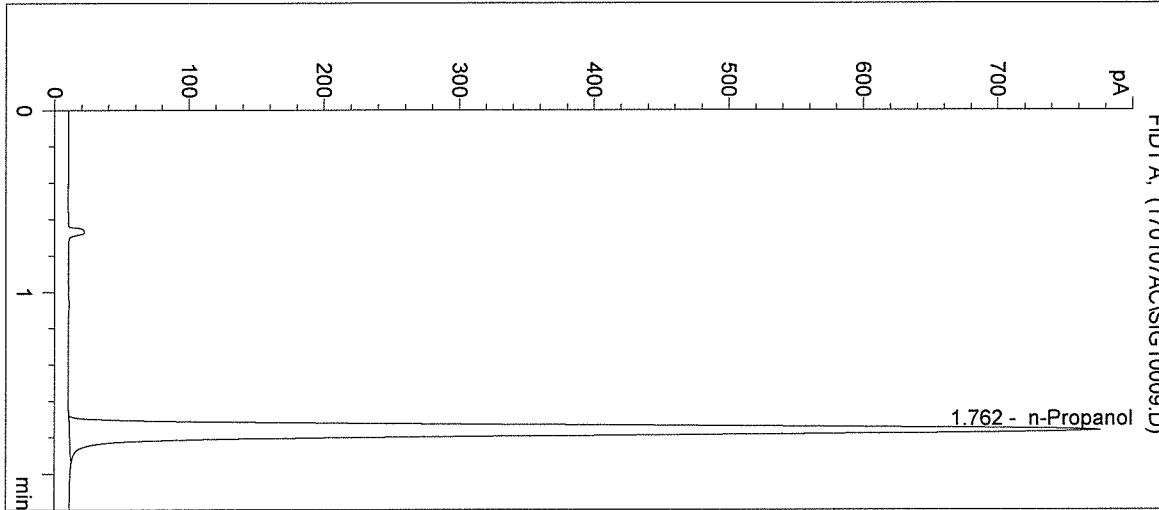


n-Propanol 0.012 g/100mL

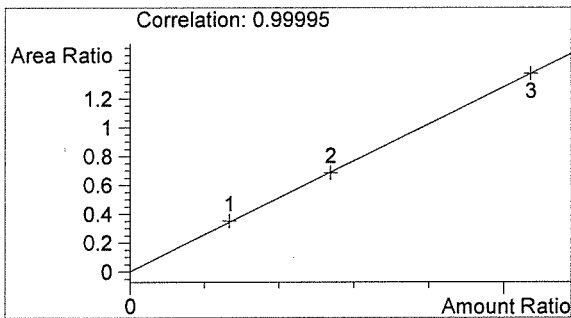
Az

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

Inj. Date: 1/7/2017 10:58:20 AM Sample Name: NEG CTRL
Instrument: HSGC#1 Operator: Amanda Chandler
Column: DB-ALC1 Location: Vial 9
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16063

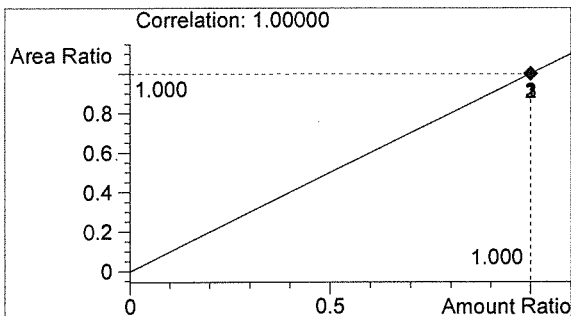


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2869 | 1.762 |



Ethanol 0.000 g/100mL

BLW



n-Propanol 0.012 g/100mL

AR

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

Inj. Date: 1/7/2017 11:01:34 AM

Sample Name: 16063 #1

Instrument: HSGC#1

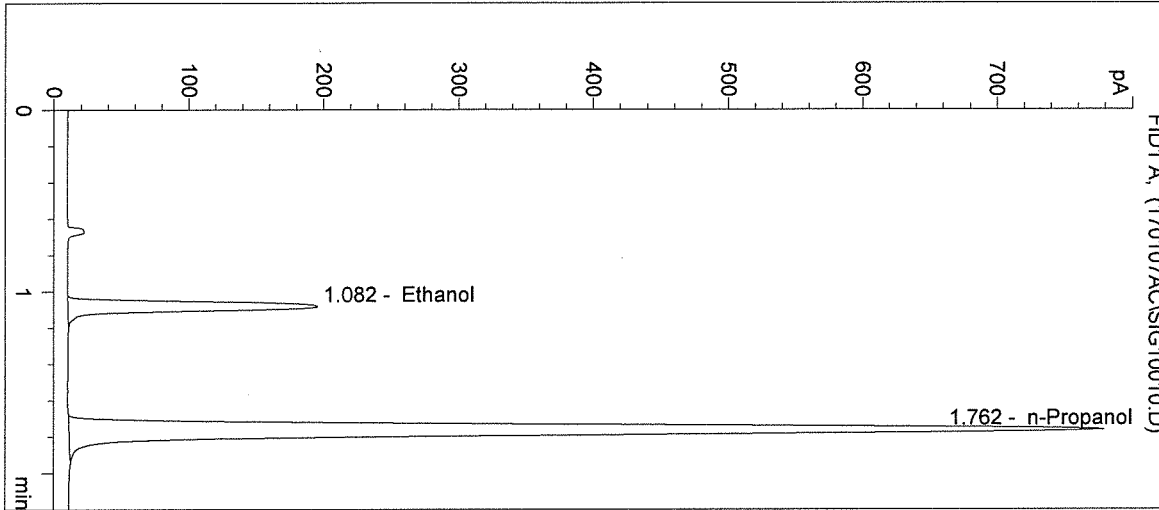
Operator: Amanda Chandler

Column: DB-ALC1

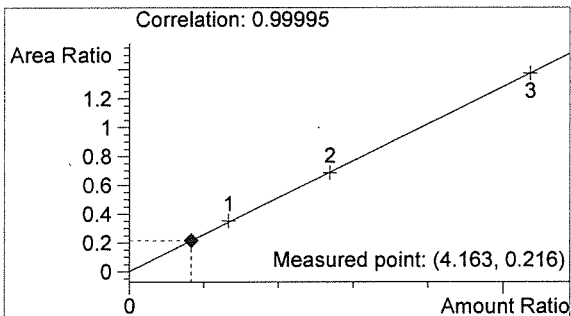
Location: Vial 10

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

Sample Info:

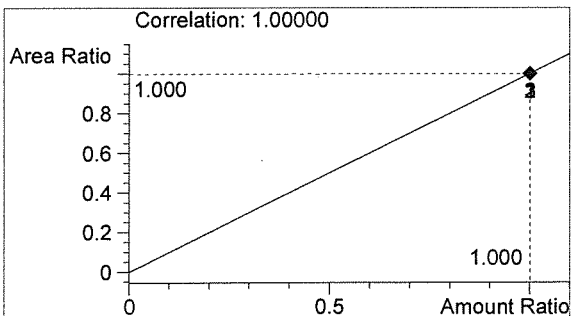


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 622 | 1.082 |
| 2 | n-Propanol | 2875 | 1.762 |



Ethanol 0.050 g/100mL

BLW



n-Propanol 0.012 g/100mL

A

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

Inj. Date: 1/7/2017 11:04:47 AM

Sample Name: 16063 #2

Instrument: HSGC#1

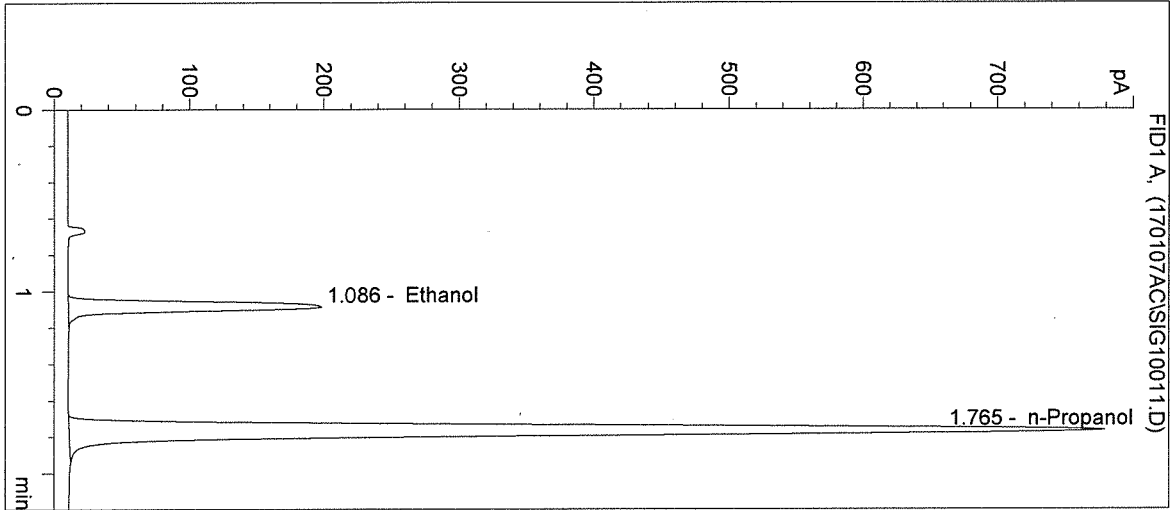
Operator: Amanda Chandler

Column: DB-ALC1

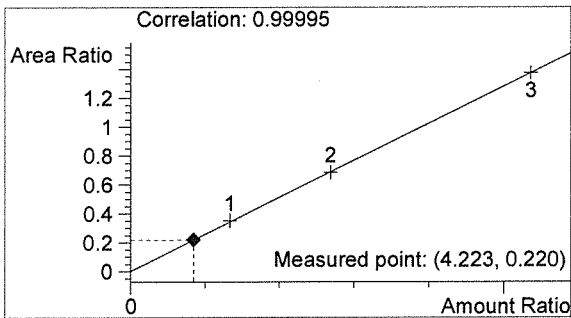
Location: Vial 11

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

Sample Info:

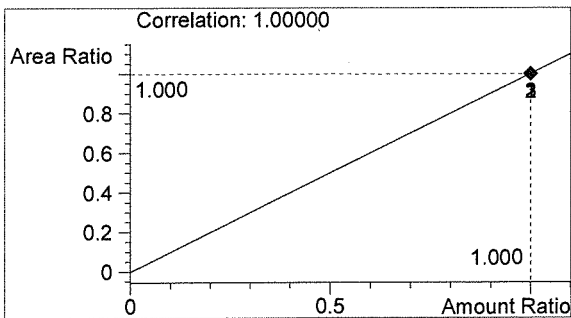


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 636 | 1.086 |
| 2 | n-Propanol | 2899 | 1.765 |



Ethanol 0.051 g/100mL

BW



n-Propanol 0.012 g/100mL

A

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

Inj. Date: 1/7/2017 11:08:00 AM

Sample Name: 16063 #3

Instrument: HSGC#1

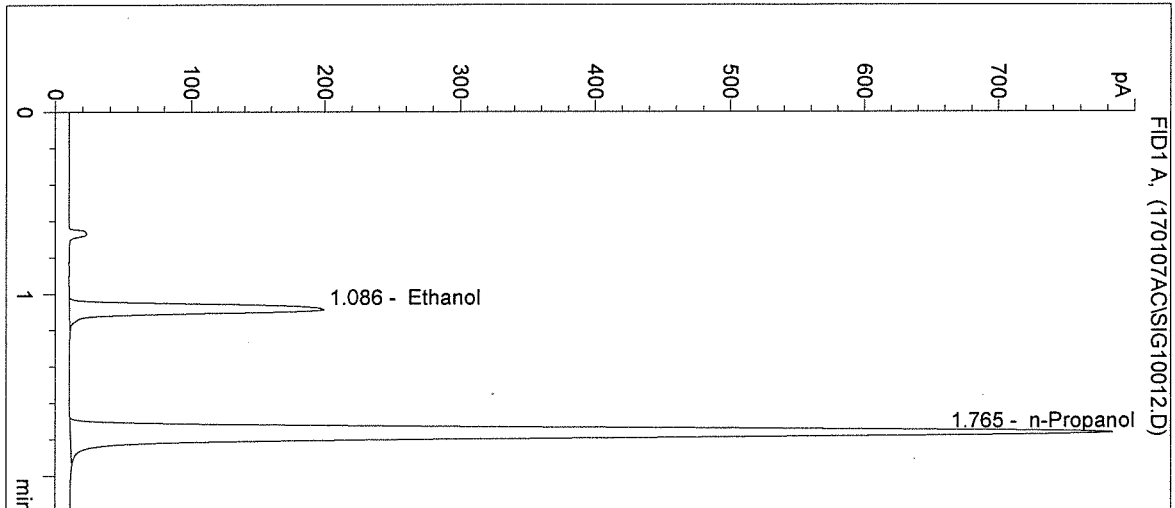
Operator: Amanda Chandler

Column: DB-ALC1

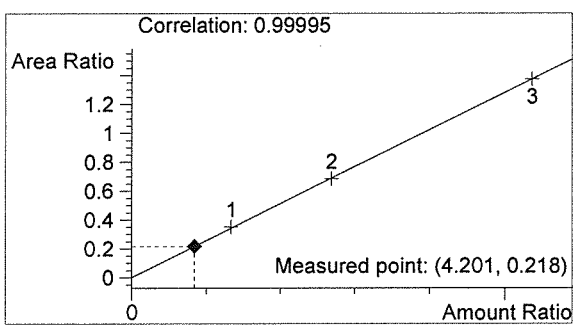
Location: Vial 12

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

Sample Info:

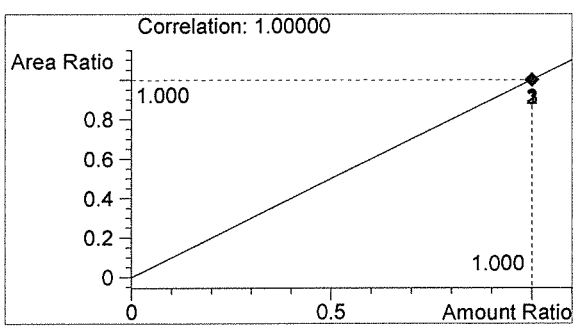


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 636 | 1.086 |
| 2 | n-Propanol | 2912 | 1.765 |



Ethanol 0.050 g/100mL

BW



n-Propanol 0.012 g/100mL

AC

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

Inj. Date: 1/7/2017 11:11:13 AM

Sample Name: 16063 #4

Instrument: HSGC#1

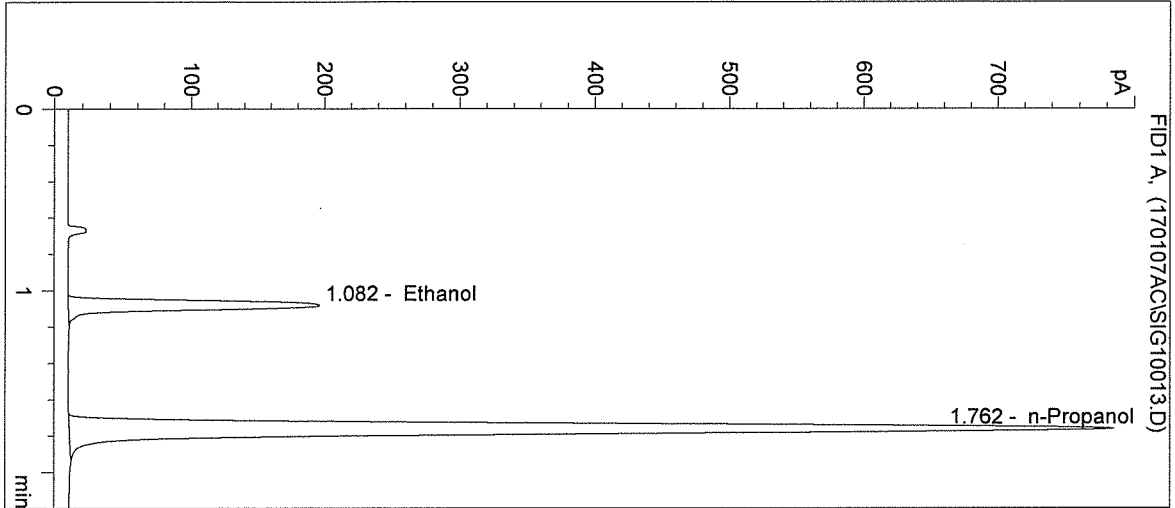
Operator: Amanda Chandler

Column: DB-ALC1

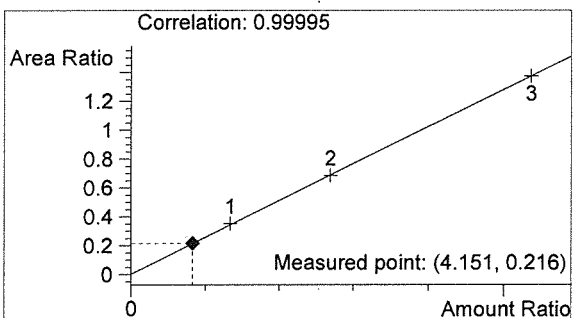
Location: Vial 13

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

Sample Info:

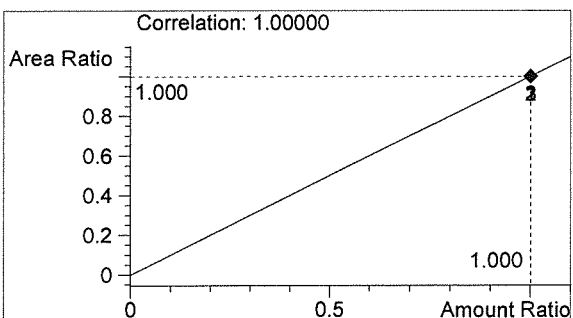


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 626 | 1.082 |
| 2 | n-Propanol | 2899 | 1.762 |



Ethanol 0.050 g/100mL

AW



n-Propanol 0.012 g/100mL

R

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

Inj. Date: 1/7/2017 11:14:27 AM

Sample Name: 16063 #5

Instrument: HSGC#1

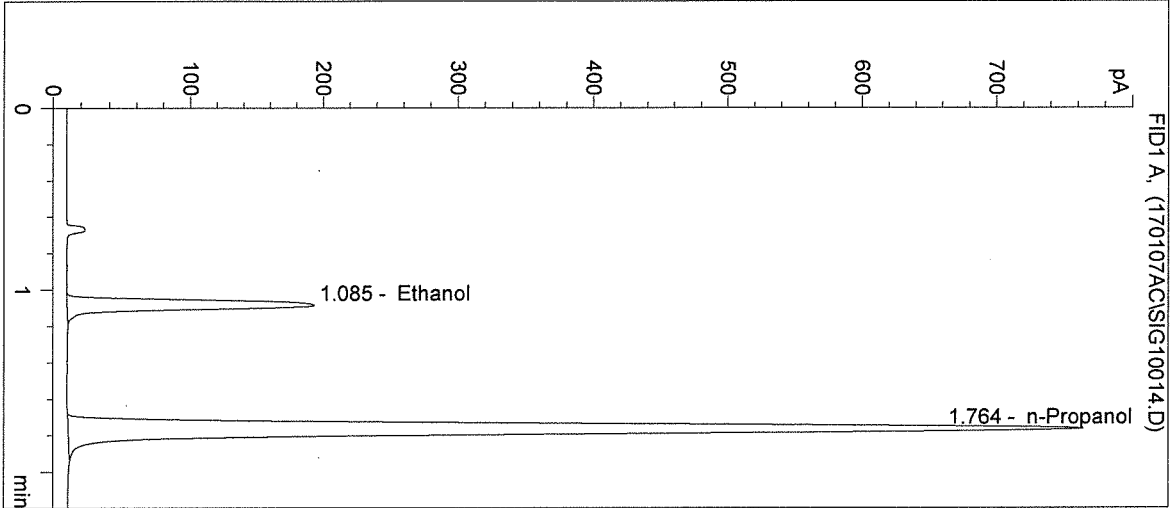
Operator: Amanda Chandler

Column: DB-ALC1

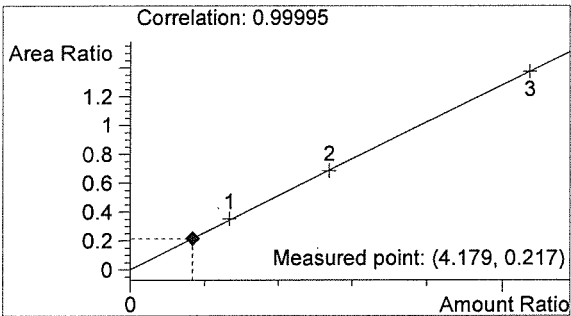
Location: Vial 14

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

Sample Info:

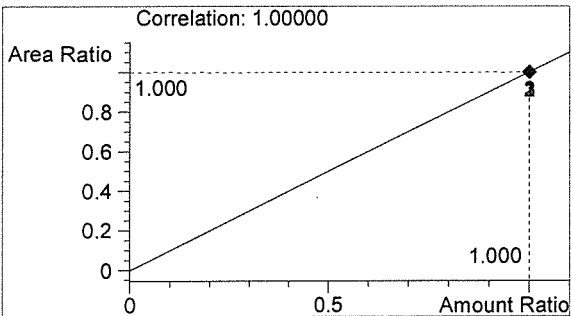


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 616 | 1.085 |
| 2 | n-Propanol | 2833 | 1.764 |



Ethanol 0.050 g/100mL

Buo



n-Propanol 0.012 g/100mL

AR

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

Inj. Date: 1/7/2017 11:17:40 AM

Sample Name: POS CTRL (0.10)

Instrument: HSGC#1

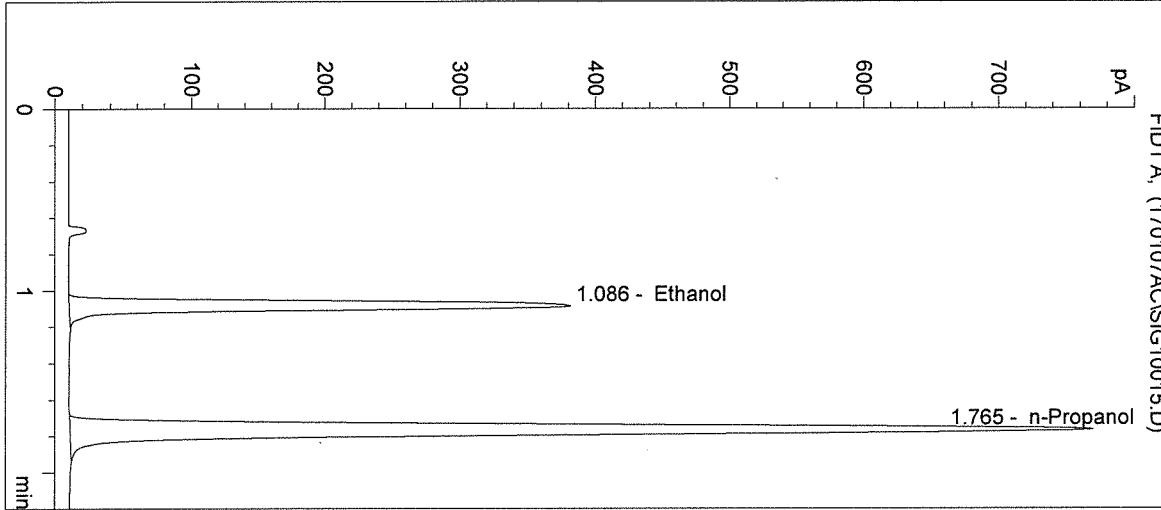
Operator: Amanda Chandler

Column: DB-ALC1

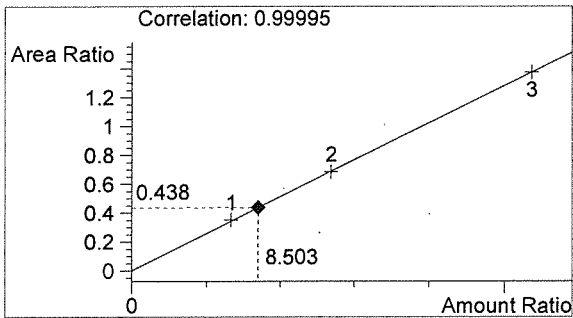
Location: Vial 15

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

Sample Info: 16063

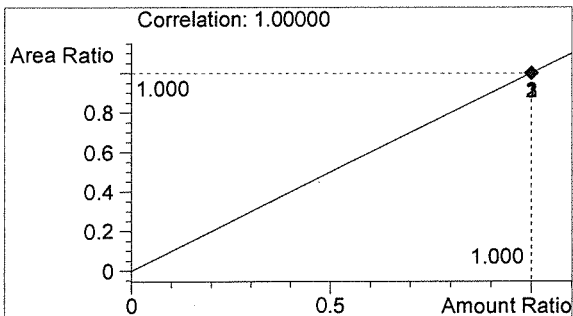


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1251 | 1.086 |
| 2 | n-Propanol | 2855 | 1.765 |



Ethanol 0.102 g/100mL

AW



n-Propanol 0.012 g/100mL

AR

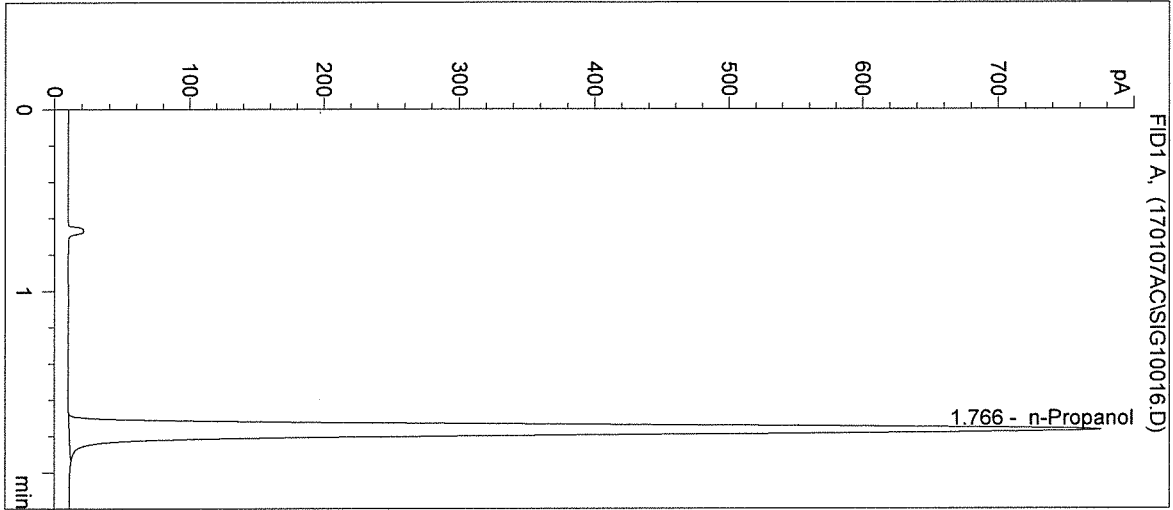
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/7/2017 11:20:54 AM
 Instrument: HSGC#1

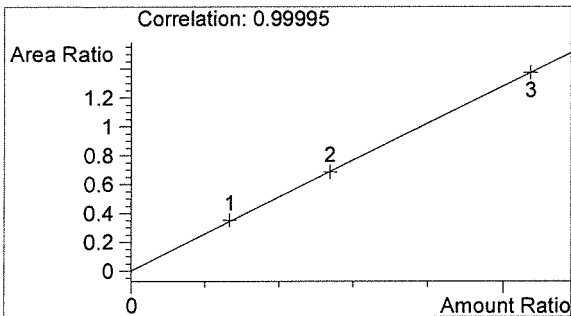
Sample Name: NEG CTRL
 Operator: Amanda Chandler
 Location: Vial 16

Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Info: 16063

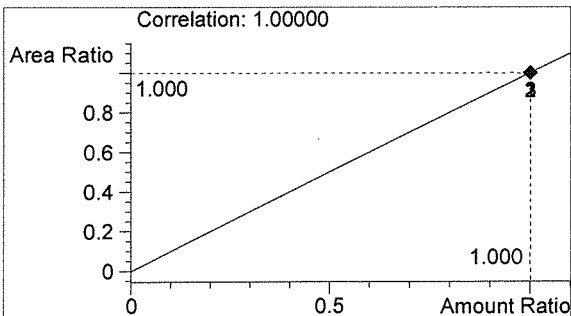


| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2880 | 1.766 |



Ethanol 0.000 g/100mL

BW



n-Propanol 0.012 g/100mL

AR