



QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 16028

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: 0.08 g/210L
DATE PREPARED: 06/27/2016
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Asa J. Louis

| | AJL | AG | JLK |
|---|-------|-------|-------|
| 1 | 0.097 | 0.098 | 0.099 |
| 2 | 0.097 | 0.098 | 0.098 |
| 3 | 0.097 | 0.099 | 0.099 |
| 4 | 0.098 | 0.099 | 0.099 |
| 5 | 0.097 | 0.099 | 0.099 |
| C | 0.100 | 0.102 | 0.101 |

ETHANOL CONTROL INFORMATION

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

RESULTS OF TESTING

AVERAGE SOLUTION CONCENTRATION: 0.0982 g/100mL PRECISION CV (%): 0.88
STANDARD DEVIATION: 0.00086 NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0798 g/210L**
EXPANDED UNCERTAINTY: ± 0.0020 (k=2, 95.45% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

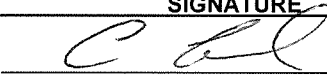
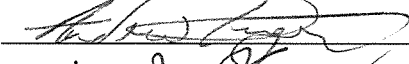
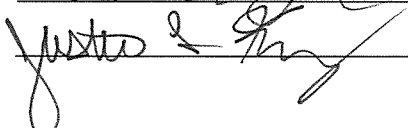


Lisa Noble Forensic Scientist Supervisor

7/29/16

DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

| ANALYST | NAME | SIGNATURE | DATE TESTED |
|---------|----------------|--|-------------|
| AJL | Asa J. Louis |  | 06/27/2016 |
| AG | Andrew Gingras |  | 06/28/2016 |
| JLK | Justin L. Knoy |  | 06/30/2016 |

This report applies only to the item being tested and shall not be reproduced except in full, without the written approval of the WSP Toxicology Laboratory Division. Page 1 of 1

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

QAP Solution Batch #: 16028

Date Prepared: 6/27/2016

Analyst: AJL AG JLK
Date Tested: 6/27/2016 6/28/2016 6/30/2016
Instrument: HSGC #1 HSGC #1 HSGC #1

| | | | |
|---|-------|-------|-------|
| 1 | 0.097 | 0.098 | 0.099 |
| 2 | 0.097 | 0.098 | 0.098 |
| 3 | 0.097 | 0.099 | 0.099 |
| 4 | 0.098 | 0.099 | 0.099 |
| 5 | 0.097 | 0.099 | 0.099 |
| C | 0.100 | 0.102 | 0.101 |

| CV^2_{COA} | $CV^2_{QAP\ Solution}$ | $CV^2_{Control}$ | $CV^2_{Part\ Coef}$ |
|--------------|------------------------|------------------|---------------------|
| 0.0000084100 | 0.0000051356 | 0.0000326765 | 0.0001016326 |

Ethanol Control Lot #: FN08051301

Control Uncertainty (%): 0.29

Average Solution Concentration: 0.0982 g/100mL
Standard Deviation: 0.00086 g/100mL
Precision CV (%): 0.88
Equivalent Vapor Concentration: 0.0798 g/210L
Combined Standard Uncertainty (\pm): 0.0010 g/210L
Expanded Uncertainty (\pm): 0.0020 coverage factor (k) = 2 (95.45% level of confidence)

Calculations performed by: Lisa Noble [Signature] 7/6/16
Name Signature Date

Calculations verified by: Amanda M. Black [Signature] 7-28-16
Name Signature Date

Method: Hand calculation

Tech. review performed by: Lisa Noble [Signature] 7/6/16
Name Signature Date

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 7-28-16

Location: WSP-FLSB Seattle, WA Solution Batch Number: 16028

| | 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: 7-28-16



SOLUTION CERTIFICATE REVIEW

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

Please initial and date below to affirm that you have:

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

| | Initials | Date |
|-------------------------------|-----------|-----------|
| Amanda Chandler | | |
| Andrew Gingras | <i>AG</i> | 7/7/16 |
| Asa Louis | <i>A</i> | 7/16/2016 |
| Brittany Thomas | | |
| Christie Mitchell-Mata | | |
| Christopher Johnston | | |
| David Nguyen | | |
| Dawn Sklerov | | |
| Elizabeth Wehner | | |
| Justin Knoy | <i>JK</i> | 7.7.16 |
| Katie Harris | | |
| Lyndsey Lowe | | |
| Naziha Nuwayhid | | |
| Rebecca Flaherty | | |

Batch # 16028 for 7/16/16

for

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

**0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION
CERTIFICATION FOR LOT 16028**

I, Asa J. Louis, 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: B.S. degree in Biochemistry and over ten years of toxicology experience.

The quality assurance procedure (QAP) solution, Lot Number 16028, was prepared in the Washington State Toxicology Laboratory on 6/27/2016. 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 6/27/2017.

Seattle, WA

 20160706

Asa J. Louis

Date

Forensic Scientist



JAY INSLEE
Governor



JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

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**0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION
CERTIFICATION FOR LOT 16028**

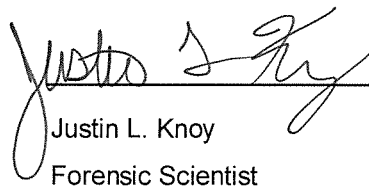
I, Justin L. Knoy, do certify under penalty of perjury that:

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

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

The quality assurance procedure (QAP) solution, Lot Number 16028, was prepared in the Washington State Toxicology Laboratory on 6/27/2016. 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 6/27/2017.

Seattle, WA

 7.7.16
Justin L. Knoy Date
Forensic Scientist

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

Preparation Date: 20160627 Expiration Date: 20170627 Initials of Preparer: AK

Lot # of 200-proof Ethanol used in preparation: 2DK 0010

Date the 200-proof Ethanol bottle was opened: 20160608

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 type="checkbox"/> | |
| QAP 0.08 | 22.4 | 18 | <input checked="" type="checkbox"/> | <u>16028</u> |
| QAP 0.10 | 28.1 | 18 | <input 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

20160627
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:

CAQ
Analyst Signature

20160627
Date

fr

Sequence Parameters:

Operator: asa louis
 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: 160627A2
 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 e0416-01 exp 10/01/2016
 cal 2 0.158 g/100mL e0416-02 exp 10/01/2016
 cal 3 0.316 g/100mL e0416-03 exp 10/01/2016
 0.04 control fn05011301 exp 05/2018
 0.10 control fn08051301 exp 10/2018
 0.20 control fn03211401 exp 06/2019
 istd p0516 exp 10/31/2016

 calibration in ess 16021

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 control - al | SIMALC1 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | 0.04 ctrl al | SIMALC1 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | 0.10 ctrl al | SIMALC1 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | 0.20 ctrl al | SIMALC1 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | neg control - al | SIMALC1 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 16021 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 16021 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 16021 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 16021 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 16021 #5 | SIMALC1 | 1 | Sample | | |
| 15 | Vial 15 | 0.10 ctrl al | SIMALC1 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | neg control - al | SIMALC1 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 16028 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 16028 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 16028 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 16028 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 16028 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 ctrl al | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | neg control - al | SIMALC1 | 1 | Ctrl Samp | | |

16028

for 16/16

or

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!

16028

7/16/16

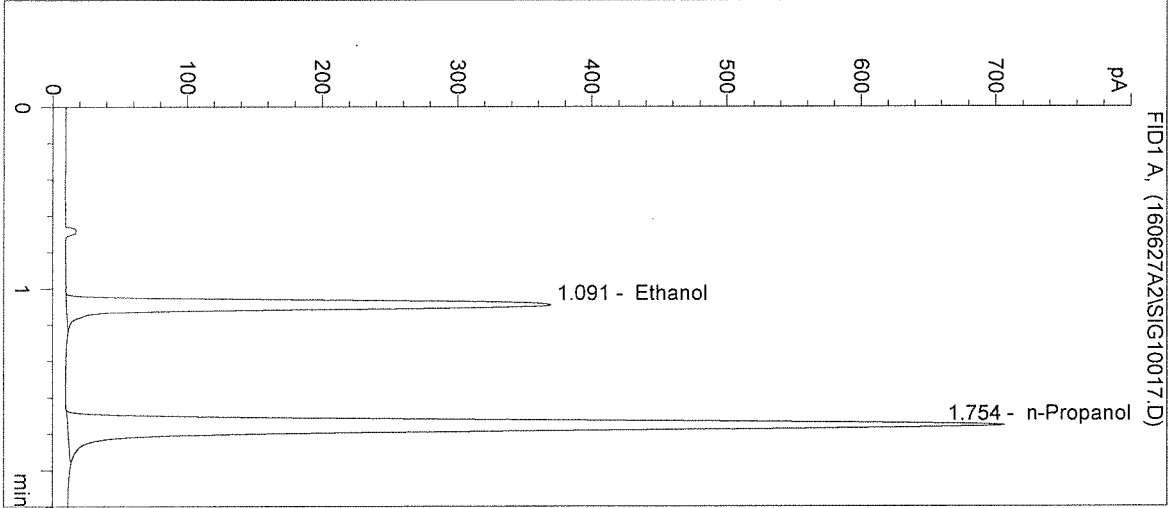
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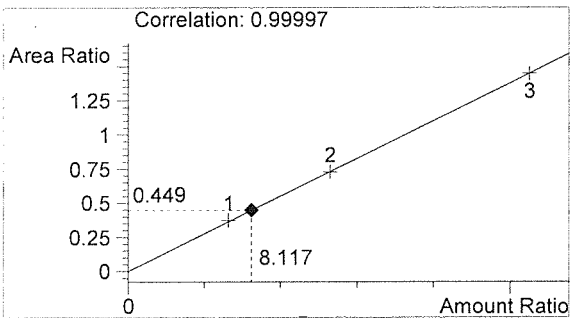
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Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028 #1
Operator: asa louis
Location: Vial 17

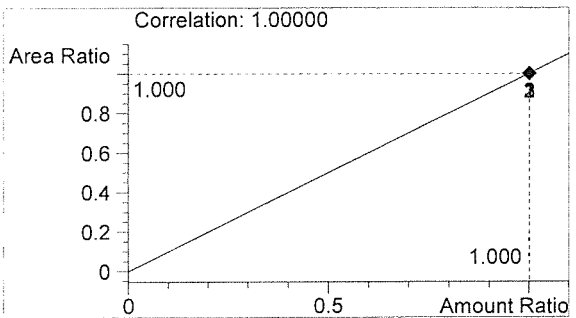
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1228 | 1.091 |
| 2 | n-Propanol | 2738 | 1.754 |



Ethanol 0.097 g/100mL



n-Propanol 0.012 g/100mL

fr

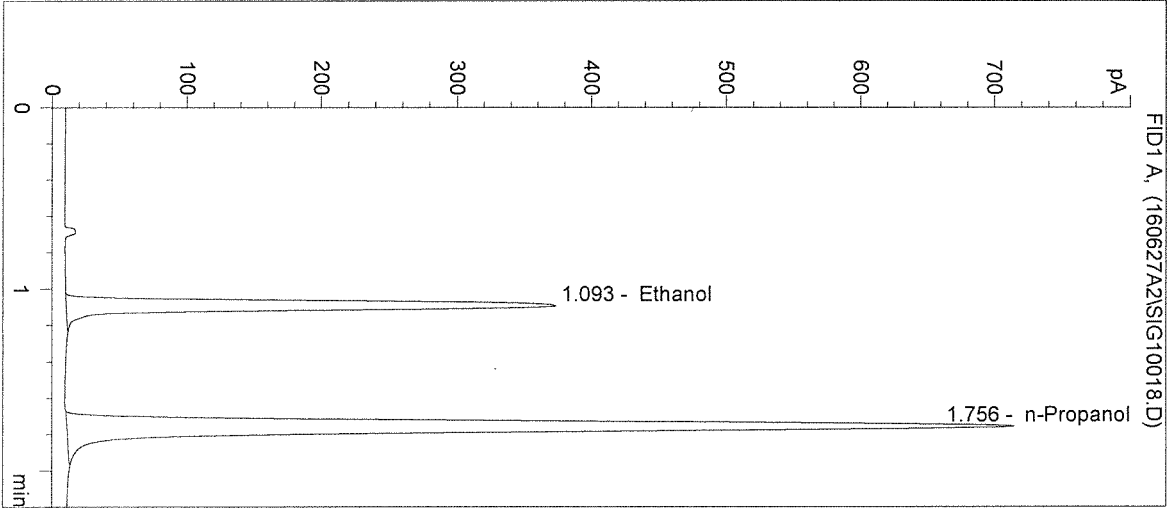
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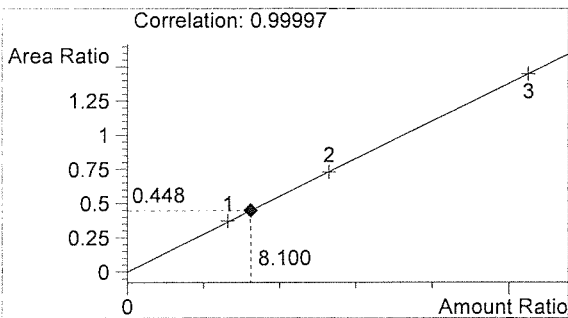
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 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028 #2
 Operator: asa louis
 Location: Vial 18

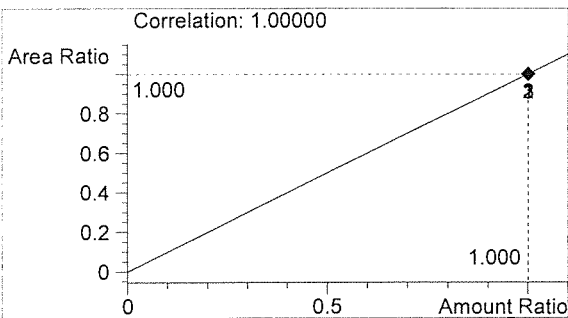
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1250 | 1.093 |
| 2 | n-Propanol | 2792 | 1.756 |



Ethanol 0.097 g/100mL



n-Propanol 0.012 g/100mL

Handwritten signature

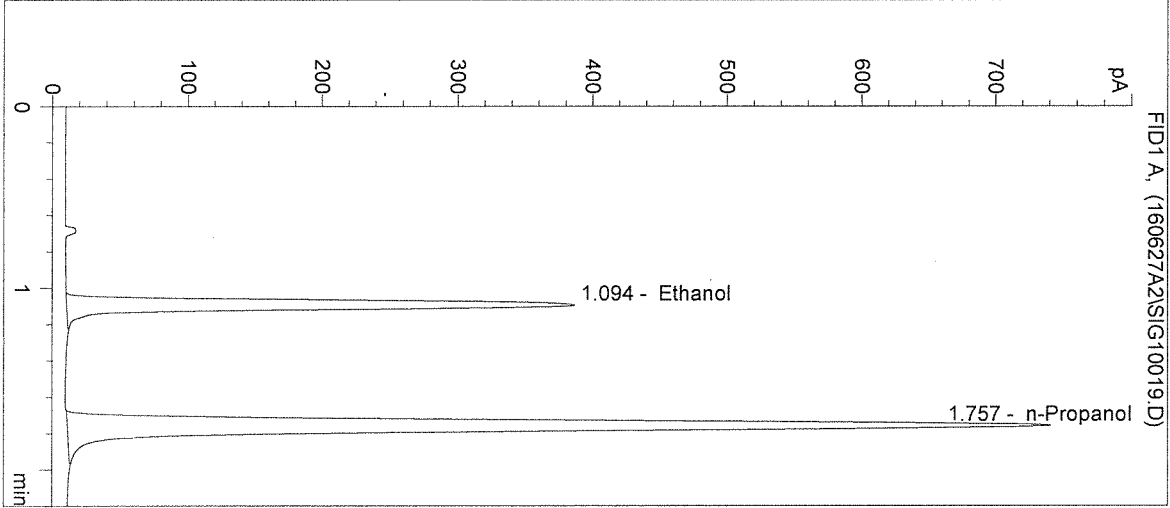
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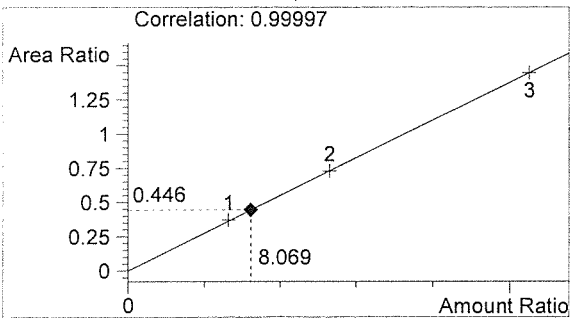
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Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028 #3
Operator: asa louis
Location: Vial 19

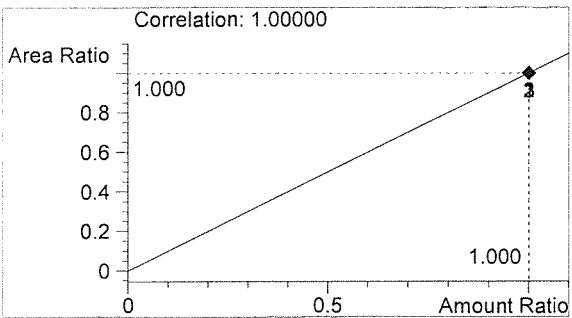
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1291 | 1.094 |
| 2 | n-Propanol | 2894 | 1.757 |



Ethanol 0.097 g/100mL



n-Propanol 0.012 g/100mL

Handwritten signature

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Inj. Date: 6/27/2016 2:00:52 PM

Sample Name: 16028 #4

Instrument: HSGC#1

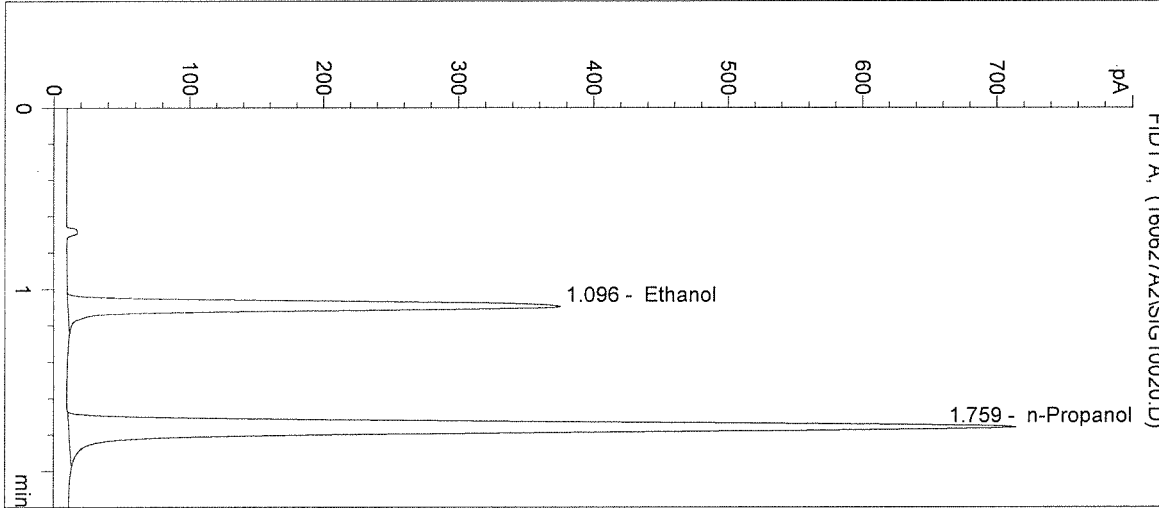
Operator: asa louis

Column: DB-ALC1

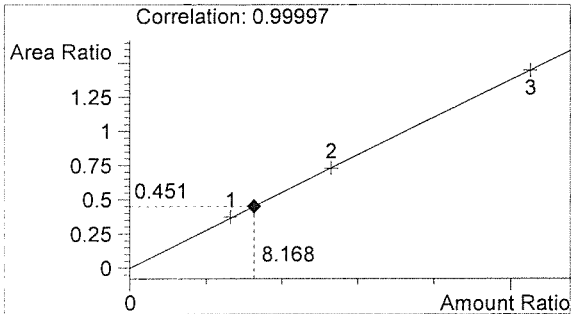
Location: Vial 20

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

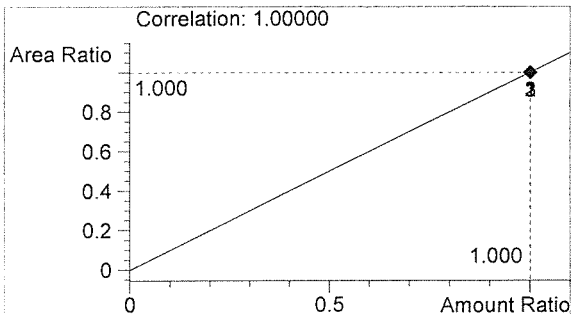
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1269 | 1.096 |
| 2 | n-Propanol | 2811 | 1.759 |



Ethanol 0.098 g/100mL



n-Propanol 0.012 g/100mL

asa

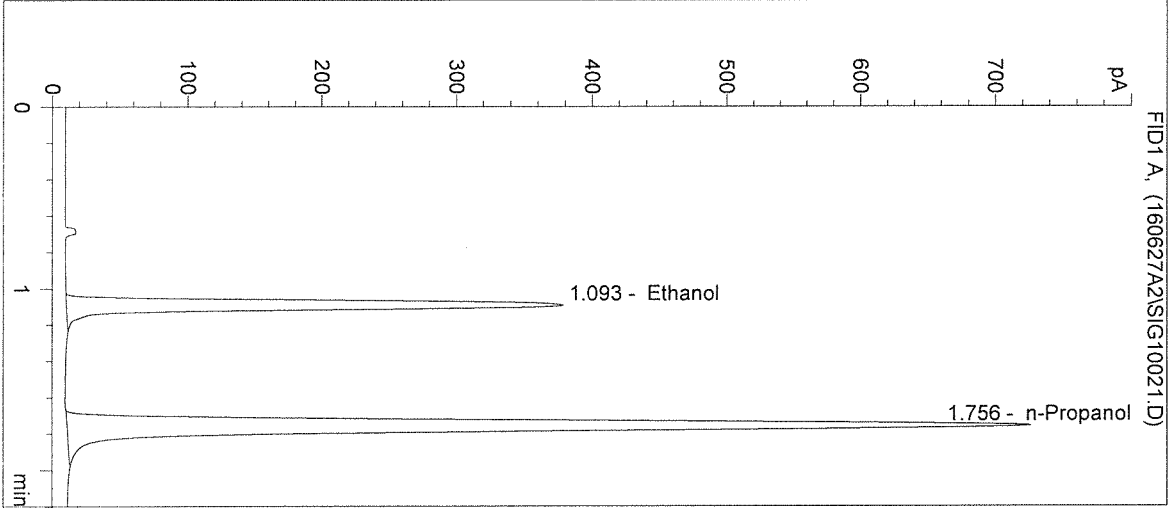
asa

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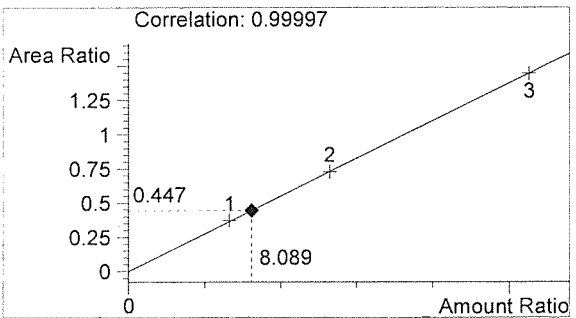
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Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028 #5
Operator: asa louis
Location: Vial 21

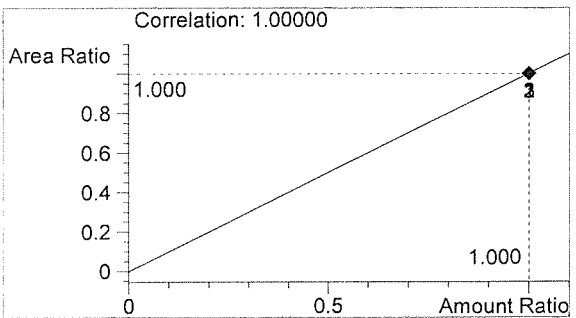
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1268 | 1.093 |
| 2 | n-Propanol | 2836 | 1.756 |



Ethanol 0.097 g/100mL



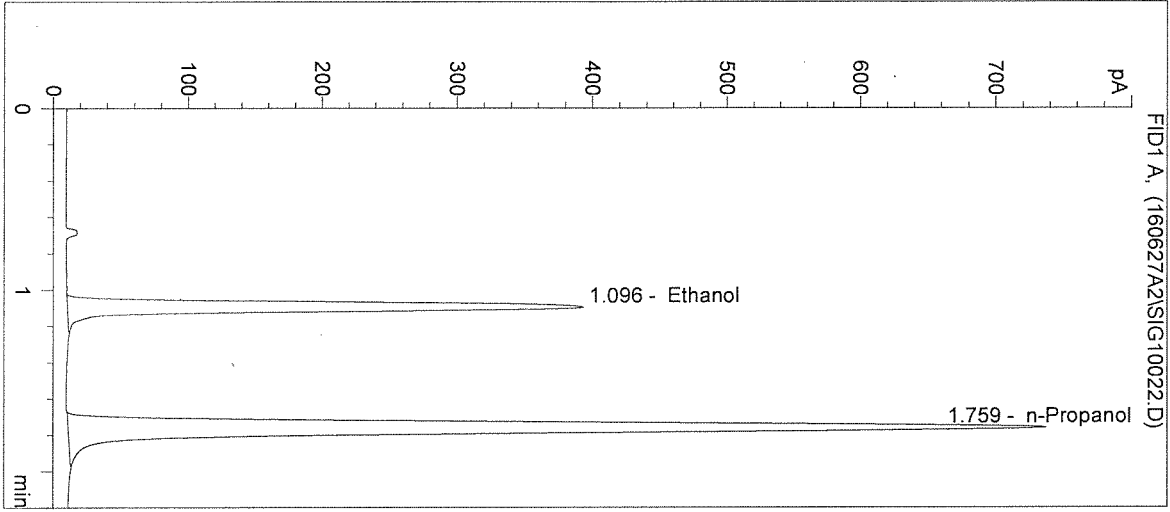
n-Propanol 0.012 g/100mL

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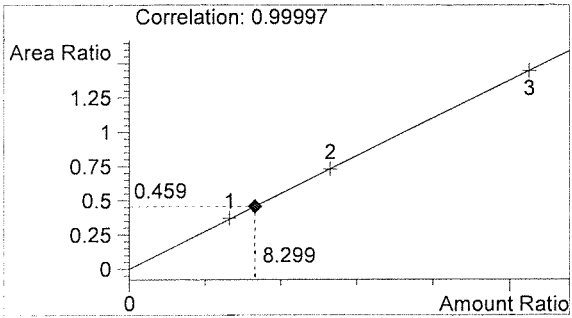
Handwritten signature

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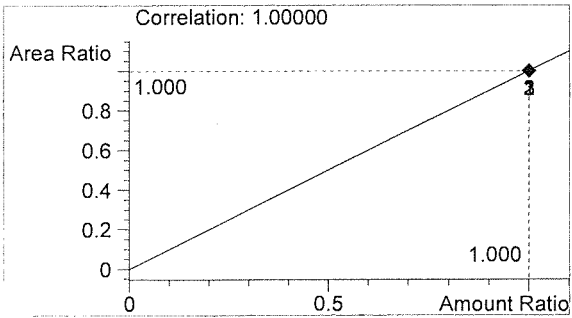
Inj. Date: 6/27/2016 2:07:18 PM Sample Name: 0.10 ctrl al
 Instrument: HSGC#1 Operator: asa louis
 Column: DB-ALC1 Location: Vial 22
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: qap 16028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1331 | 1.096 |
| 2 | n-Propanol | 2902 | 1.759 |



Ethanol 0.100 g/100mL



n-Propanol 0.012 g/100mL

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Handwritten signature

Inj. Date: 6/27/2016 2:10:32 PM

Sample Name: neg control - al

Instrument: HSGC#1

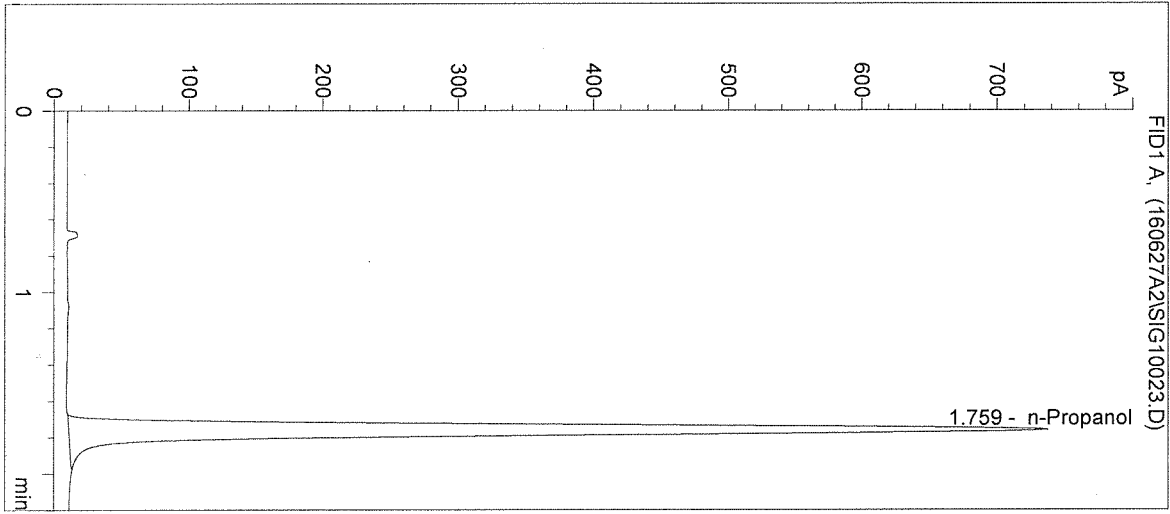
Operator: asa louis

Column: DB-ALC1

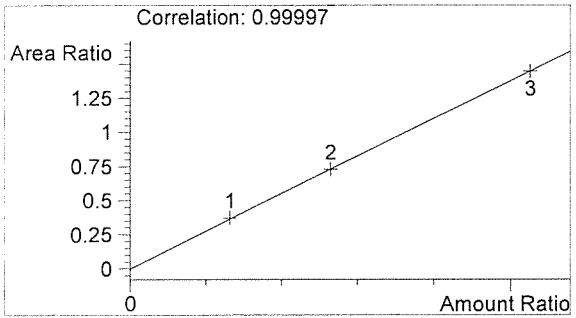
Location: Vial 23

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

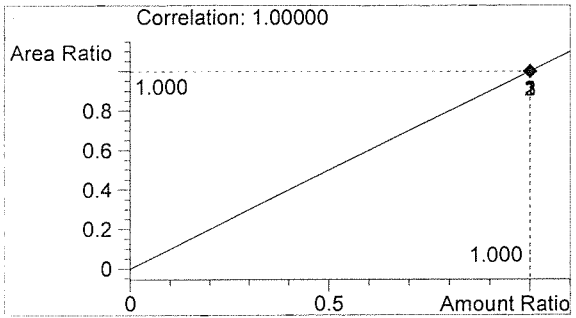
Sample Info: qap 16028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2905 | 1.759 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

Handwritten signature

Handwritten signature

Sequence Parameters:

Operator: Andrew Gingras
 Data File Naming: Auto
 Data Directory: C:\HPCHEM\1\DATA\
 Data Subdirectory: 160628A2
 Part of Methods to run: According to Runtime Checklist
 Barcode Reader: not used
 Shutdown Cmd/Macro: none

Sequence Comment:

cal 1 e0416-01 exp 10/01/2016
 cal 2 e0416-02 exp 10/01/2016
 cal 3 e0416-03 exp 10/01/2016
 0.04 control - lot fn05011301 exp 05/2018
 0.10 control - lot fn08051301 exp 10/2018
 0.20 control - lot fn03211401 exp 06/2019
 istd p0516 exp 08/31/2016

cal data in gap 16023

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 16023 #1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | qap 16023 #2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | qap 16023 #3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | qap 16023 #4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | qap 16023 #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 16025 #1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | qap 16025 #2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | qap 16025 #3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | qap 16025 #4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | qap 16025 #5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 ctrl | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | neg ctrl | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | qap 16026 #1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | qap 16026 #2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | qap 16026 #3 | SIMALC1 | 1 | Sample | | |
| 27 | Vial 27 | qap 16026 #4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | qap 16026 #5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 ctrl | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | neg ctrl | SIMALC1 | 1 | Ctrl Samp | | |

16028

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| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|--------------|---------|-----|------------|-----------|----------|
| 31 | Vial 31 | qap 16027 #1 | SIMALC1 | 1 | Sample | | |
| 32 | Vial 32 | qap 16027 #2 | SIMALC1 | 1 | Sample | | |
| 33 | Vial 33 | qap 16027 #3 | SIMALC1 | 1 | Sample | | |
| 34 | Vial 34 | qap 16027 #4 | SIMALC1 | 1 | Sample | | |
| 35 | Vial 35 | qap 16027 #5 | SIMALC1 | 1 | Sample | | |
| 36 | Vial 36 | 0.10 ctrl | SIMALC1 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | neg ctrl | SIMALC1 | 1 | Ctrl Samp | | |
| 38 | Vial 38 | qap 16028 #1 | SIMALC1 | 1 | Sample | | |
| 39 | Vial 39 | qap 16028 #2 | SIMALC1 | 1 | Sample | | |
| 40 | Vial 40 | qap 16028 #3 | SIMALC1 | 1 | Sample | | |
| 41 | Vial 41 | qap 16028 #4 | SIMALC1 | 1 | Sample | | |
| 42 | Vial 42 | qap 16028 #5 | SIMALC1 | 1 | Sample | | |
| 43 | Vial 43 | 0.10 ctrl | SIMALC1 | 1 | Ctrl Samp | | |
| 44 | Vial 44 | neg ctrl | SIMALC1 | 1 | Ctrl Samp | | |

Calibration Part:

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

Sequence Table (Back Injector):

No entries - empty table!

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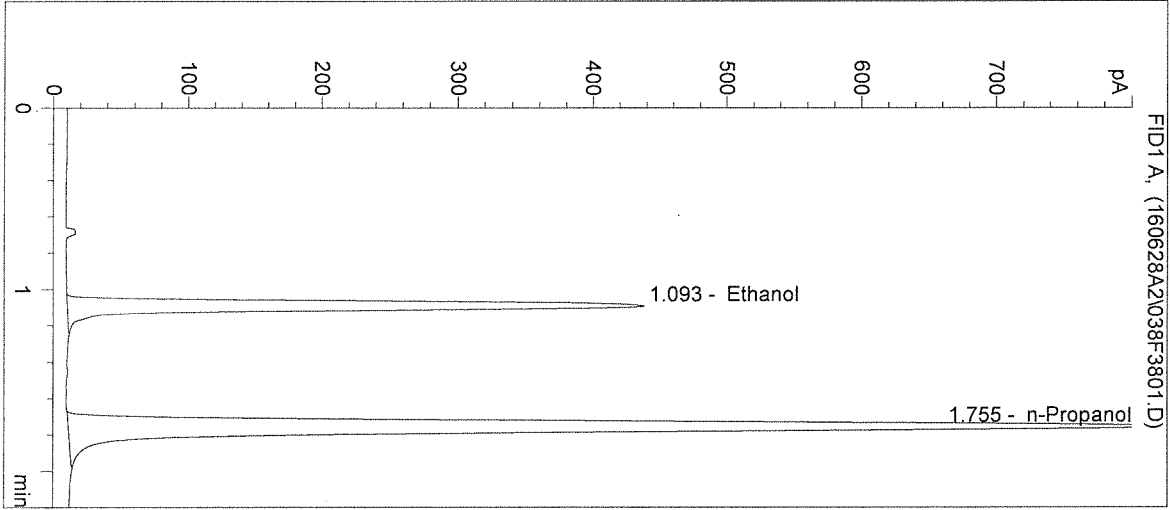
Handwritten mark

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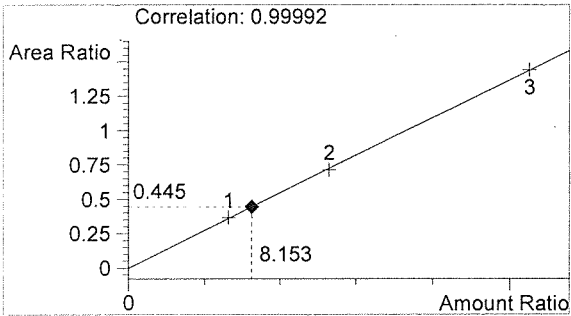
Inj. Date: 6/28/2016 10:35:09 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: gap 16028 #1
 Operator: Andrew Gingras
 Location: Vial 38

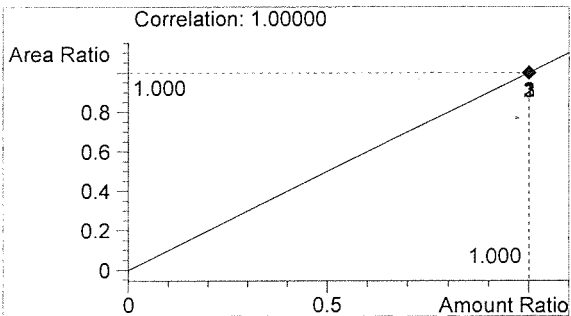
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1454 | 1.093 |
| 2 | n-Propanol | 3264 | 1.755 |



Ethanol 0.098 g/100mL



n-Propanol 0.012 g/100mL

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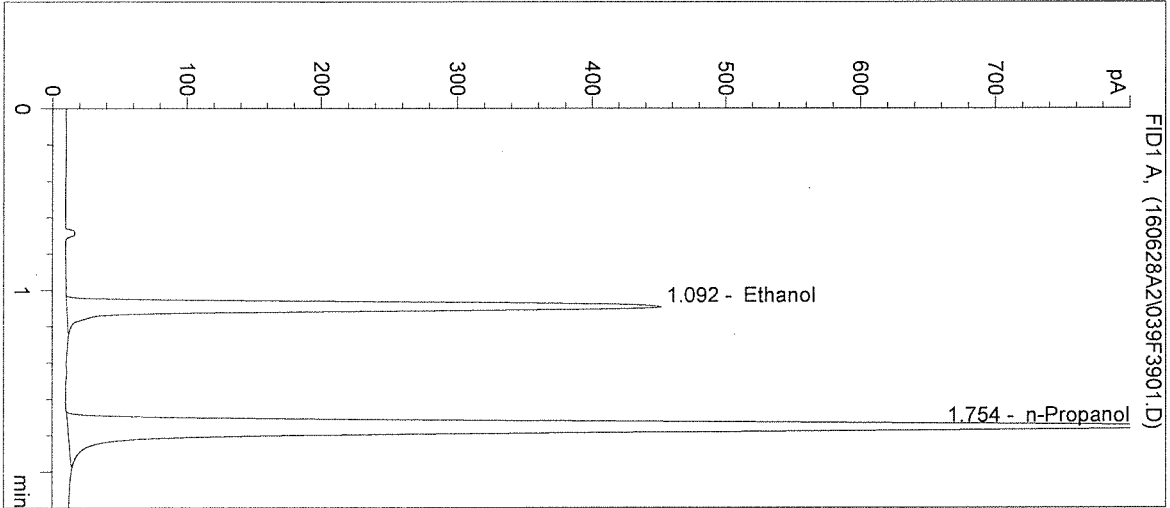
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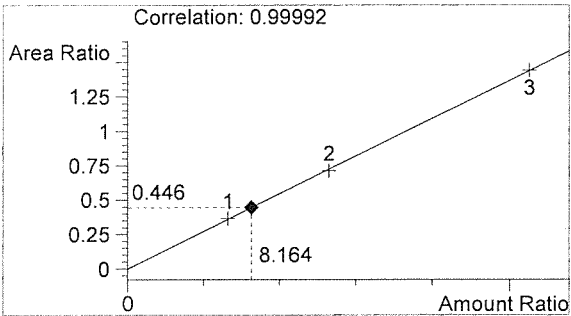
Inj. Date: 6/28/2016 10:38:23 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: gap 16028 #2
 Operator: Andrew Gingras
 Location: Vial 39

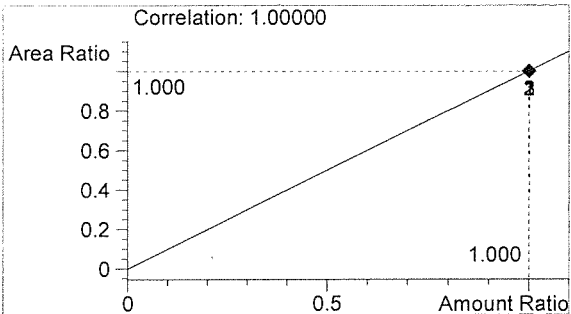
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1495 | 1.092 |
| 2 | n-Propanol | 3352 | 1.754 |



Ethanol 0.098 g/100mL



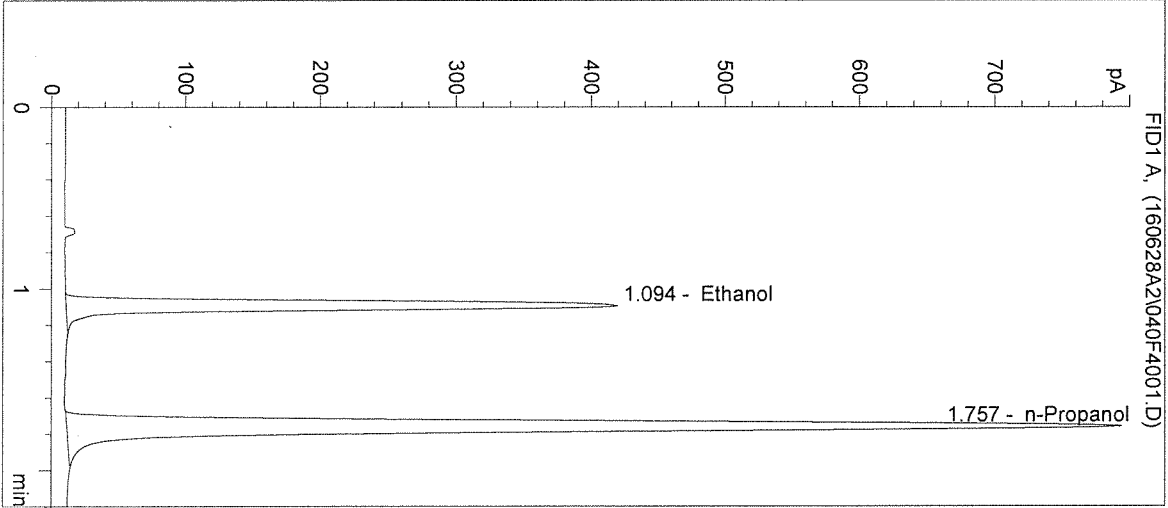
n-Propanol 0.012 g/100mL

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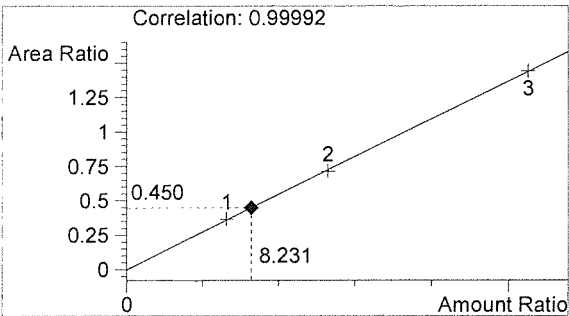
Handwritten signature

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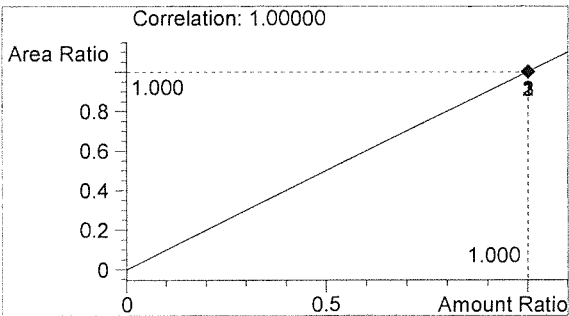
Inj. Date: 6/28/2016 10:41:35 AM Sample Name: gap 16028 #3
 Instrument: HSGC#1 Operator: Andrew Gingras
 Column: DB-ALC1 Location: Vial 40
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1402 | 1.094 |
| 2 | n-Propanol | 3119 | 1.757 |



Ethanol 0.099 g/100mL



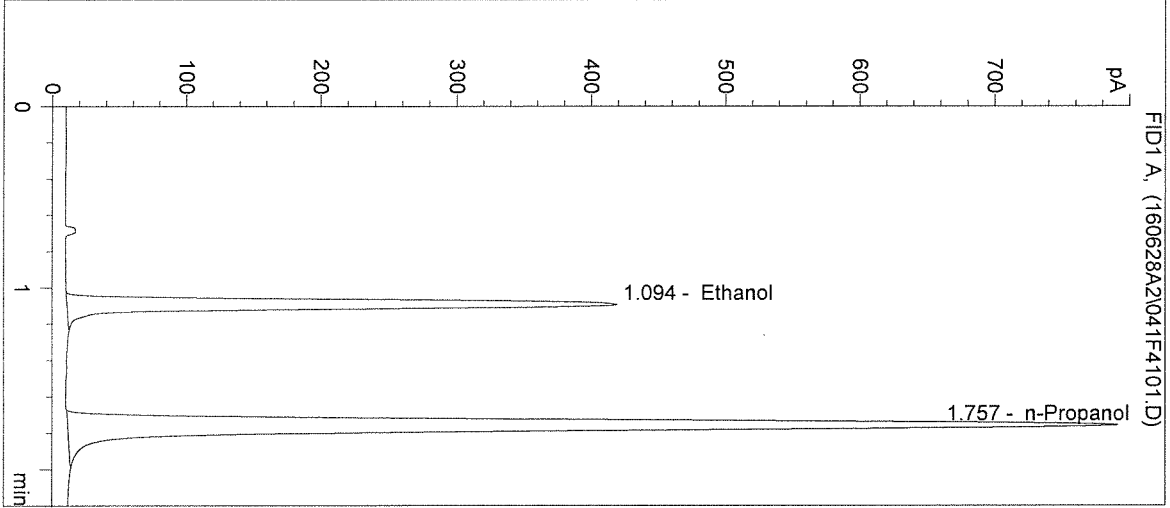
n-Propanol 0.012 g/100mL

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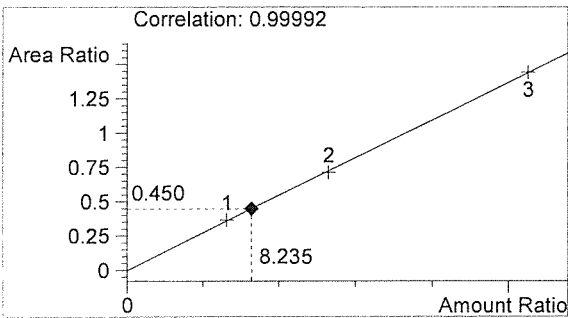
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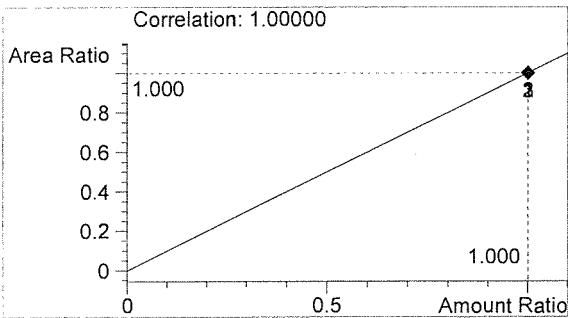
Inj. Date: 6/28/2016 10:44:49 AM Sample Name: qap 16028 #4
Instrument: HSGC#1 Operator: Andrew Gingras
Column: DB-ALC1 Location: Vial 41
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1402 | 1.094 |
| 2 | n-Propanol | 3116 | 1.757 |



Ethanol 0.099 g/100mL



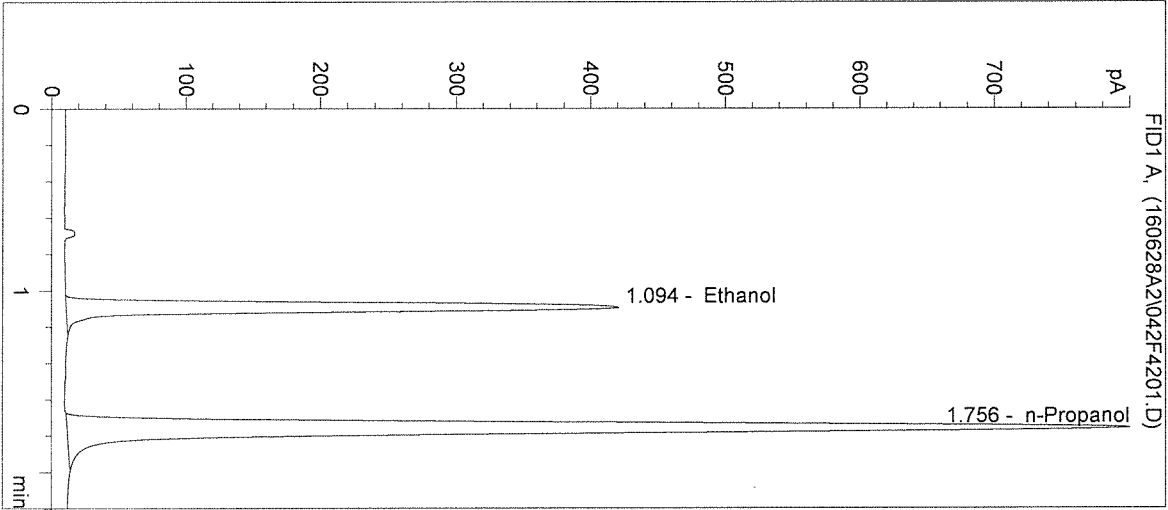
n-Propanol 0.012 g/100mL

gn

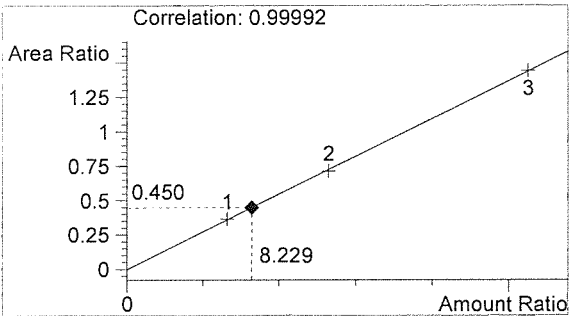
AG

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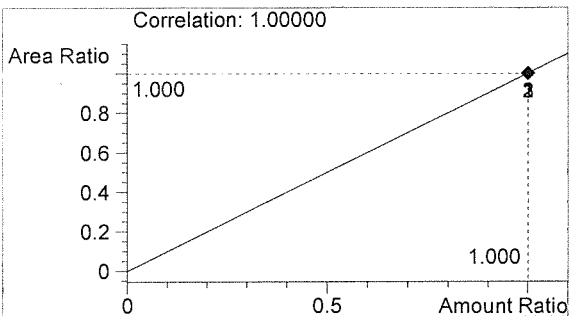
Inj. Date: 6/28/2016 10:48:03 AM Sample Name: gap 16028 #5
 Instrument: HSGC#1 Operator: Andrew Gingras
 Column: DB-ALC1 Location: Vial 42
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1412 | 1.094 |
| 2 | n-Propanol | 3141 | 1.756 |



Ethanol 0.099 g/100mL



n-Propanol 0.012 g/100mL

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Inj. Date: 6/28/2016 10:51:15 AM

Sample Name: 0.10 ctrl

Instrument: HSGC#1

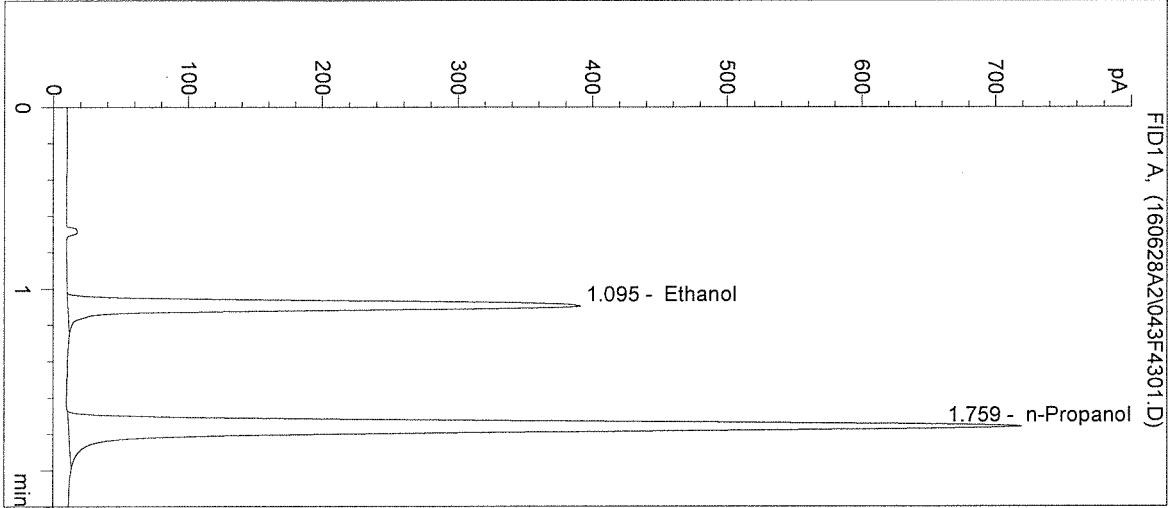
Operator: Andrew Gingras

Column: DB-ALC1

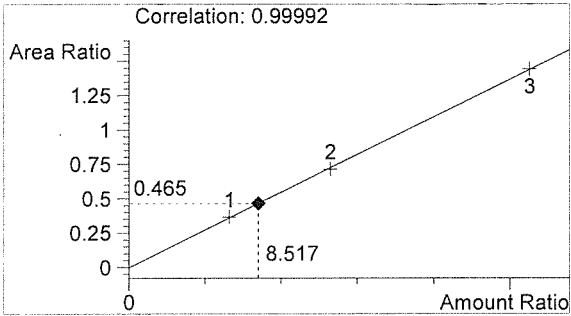
Location: Vial 43

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

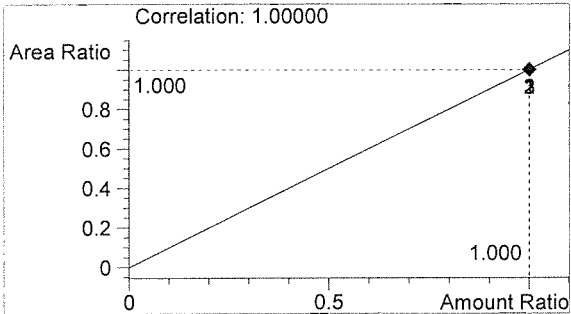
Sample Info: qap 16028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1326 | 1.095 |
| 2 | n-Propanol | 2850 | 1.759 |



Ethanol 0.102 g/100mL



n-Propanol 0.012 g/100mL

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Inj. Date: 6/28/2016 10:54:28 AM

Sample Name: neg ctrl

Instrument: HSGC#1

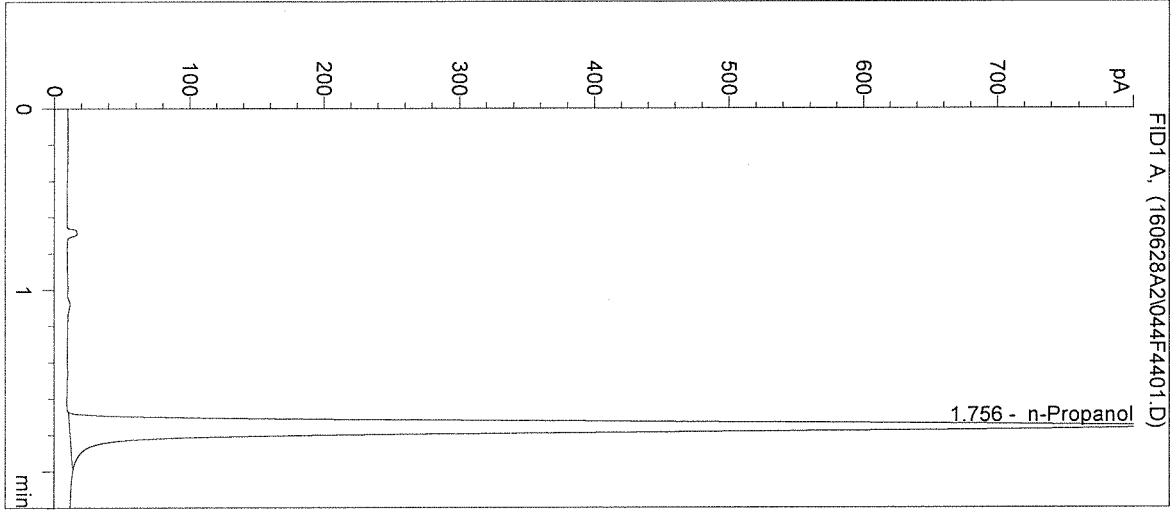
Operator: Andrew Gingras

Column: DB-ALC1

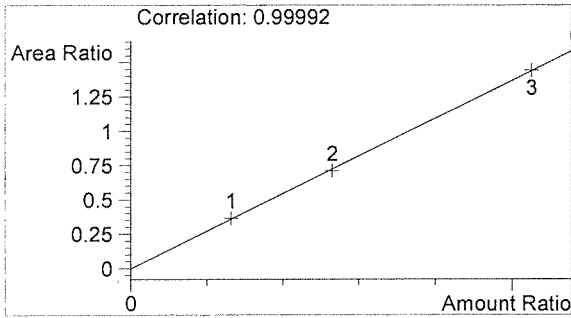
Location: Vial 44

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

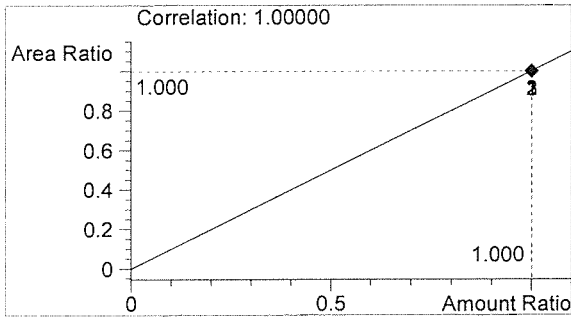
Sample Info: qap 16028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 3254 | 1.756 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

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Sequence Parameters:

Operator: Justin Knoy
 Data File Naming: Prefix/Counter
 Signal 1 Prefix: SIG1
 Counter: 0001
 Signal 2 Prefix: SIG2
 Counter: 0001
 Data Directory: C:\HPCHEM\1\DATA\
 Data Subdirectory: 160630JK
 Part of Methods to run: According to Runtime Checklist
 Barcode Reader: not used
 Shutdown Cmd/Macro: none

Sequence Comment:

Ethanol Calibrator 1, E0416-01 - Exp. 10/01/2016
 Ethanol Calibrator 2, E0416-02 - Exp. 10/01/2016
 Ethanol Calibrator 3, E0416-03 - Exp. 10/01/2016
 CTRL1 (0.04g/100mL), Lot # FN05011301 - Exp. 05/2018
 CTRL2 (0.10g/100mL), Lot # FN08051301 - Exp. 10/2018
 CTRL3 (0.20g/100mL), Lot # FN03211401 - Exp. 06/2019
 Internal Standard Lot#P0516 - Exp. 08/31/2016

Calibration vials 1-9 filed with 16023.

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 | 16023-1 | SIMALC1 | 1 | Sample | | |
| 11 | Vial 11 | 16023-2 | SIMALC1 | 1 | Sample | | |
| 12 | Vial 12 | 16023-3 | SIMALC1 | 1 | Sample | | |
| 13 | Vial 13 | 16023-4 | SIMALC1 | 1 | Sample | | |
| 14 | Vial 14 | 16023-5 | 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 | 16025-1 | SIMALC1 | 1 | Sample | | |
| 18 | Vial 18 | 16025-2 | SIMALC1 | 1 | Sample | | |
| 19 | Vial 19 | 16025-3 | SIMALC1 | 1 | Sample | | |
| 20 | Vial 20 | 16025-4 | SIMALC1 | 1 | Sample | | |
| 21 | Vial 21 | 16025-5 | SIMALC1 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 16026-1 | SIMALC1 | 1 | Sample | | |
| 25 | Vial 25 | 16026-2 | SIMALC1 | 1 | Sample | | |
| 26 | Vial 26 | 16026-3 | SIMALC1 | 1 | Sample | | |

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| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|------------|---------|-----|------------|-----------|----------|
| 27 | Vial 27 | 16026-4 | SIMALC1 | 1 | Sample | | |
| 28 | Vial 28 | 16026-5 | SIMALC1 | 1 | Sample | | |
| 29 | Vial 29 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 16027-1 | SIMALC1 | 1 | Sample | | |
| 32 | Vial 32 | 16027-2 | SIMALC1 | 1 | Sample | | |
| 33 | Vial 33 | 16027-3 | SIMALC1 | 1 | Sample | | |
| 34 | Vial 34 | 16027-4 | SIMALC1 | 1 | Sample | | |
| 35 | Vial 35 | 16027-5 | SIMALC1 | 1 | Sample | | |
| 36 | Vial 36 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 38 | Vial 38 | 16028-1 | SIMALC1 | 1 | Sample | | |
| 39 | Vial 39 | 16028-2 | SIMALC1 | 1 | Sample | | |
| 40 | Vial 40 | 16028-3 | SIMALC1 | 1 | Sample | | |
| 41 | Vial 41 | 16028-4 | SIMALC1 | 1 | Sample | | |
| 42 | Vial 42 | 16028-5 | SIMALC1 | 1 | Sample | | |
| 43 | Vial 43 | 0.10 CTRL | SIMALC1 | 1 | Ctrl Samp | | |
| 44 | Vial 44 | NEG CTRL | SIMALC1 | 1 | Ctrl Samp | | |

Calibration Part:

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

Sequence Table (Back Injector):

No entries - empty table!

16028

Justin

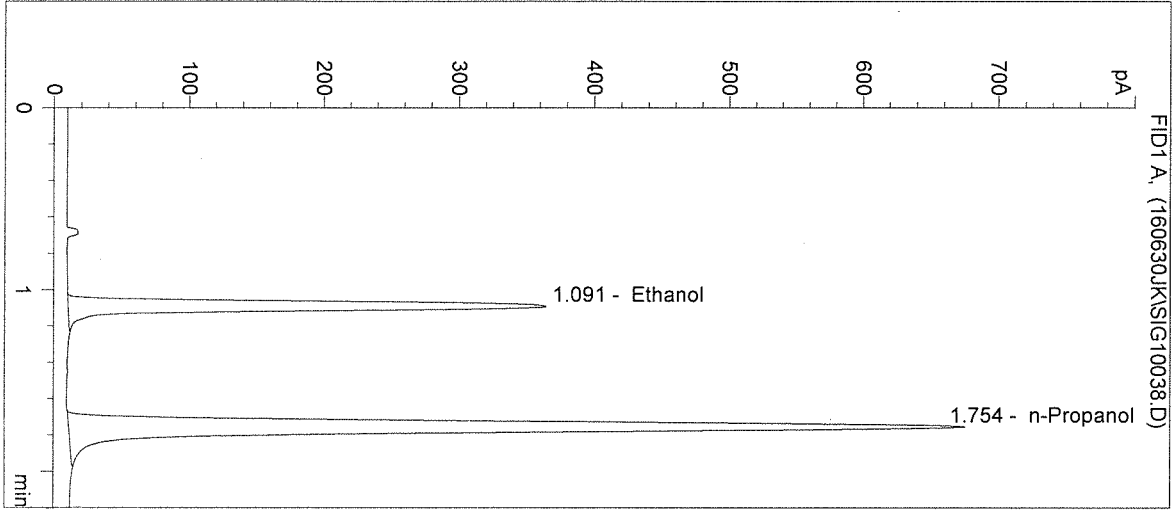
JK

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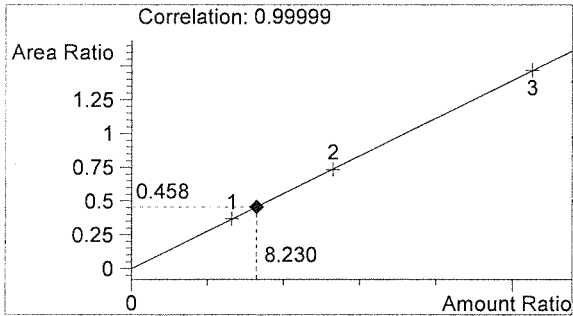
Inj. Date: 6/30/2016 11:25:13 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028-1
 Operator: Justin Knoy
 Location: Vial 38

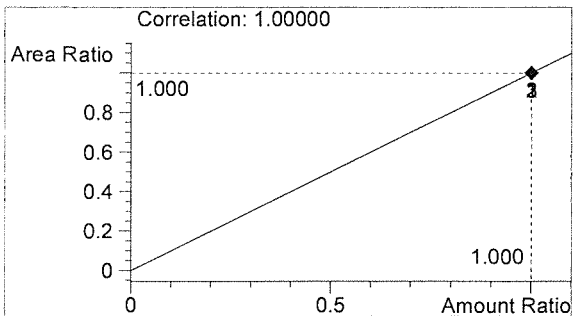
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1221 | 1.091 |
| 2 | n-Propanol | 2665 | 1.754 |



Ethanol 0.099 g/100mL



n-Propanol 0.012 g/100mL

JK

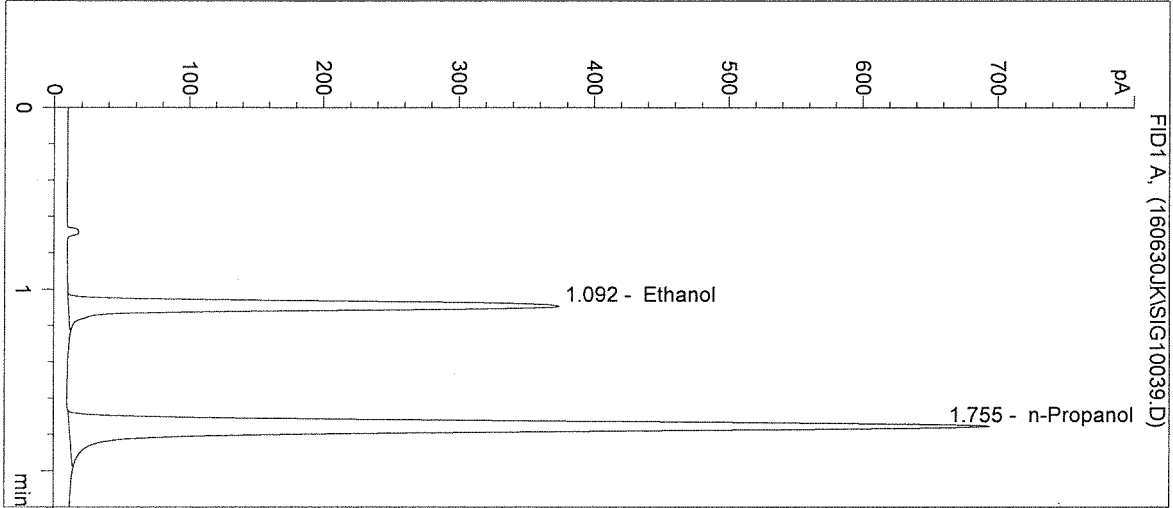
JTC

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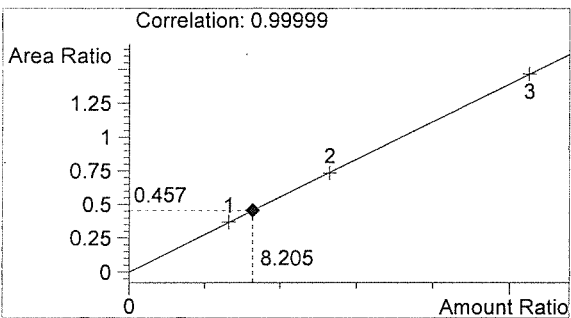
Inj. Date: 6/30/2016 11:28:25 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028-2
Operator: Justin Knoy
Location: Vial 39

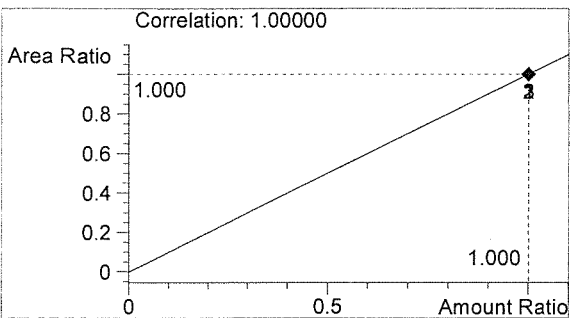
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1251 | 1.092 |
| 2 | n-Propanol | 2741 | 1.755 |



Ethanol 0.098 g/100mL



n-Propanol 0.012 g/100mL

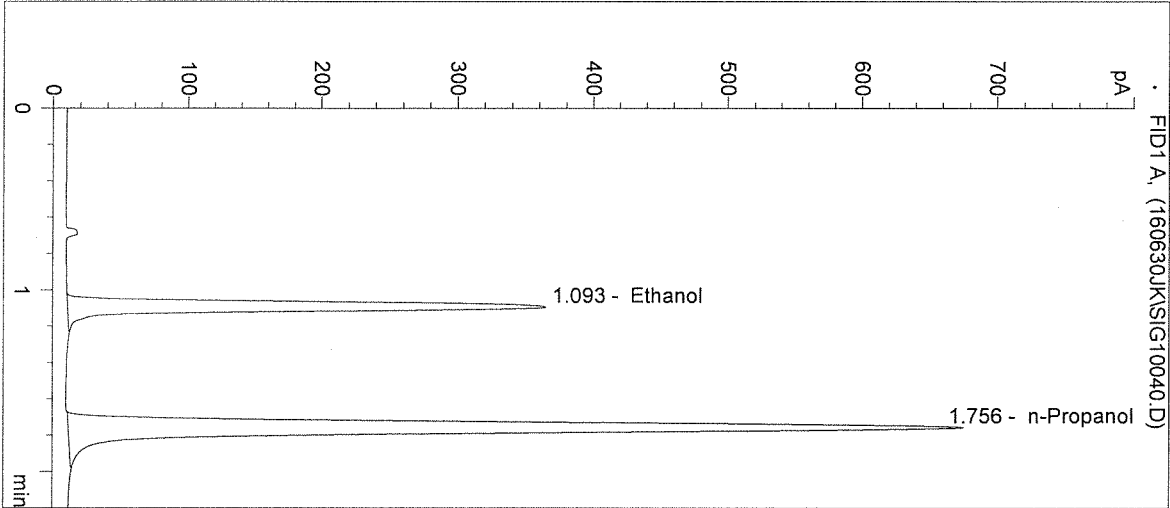
J

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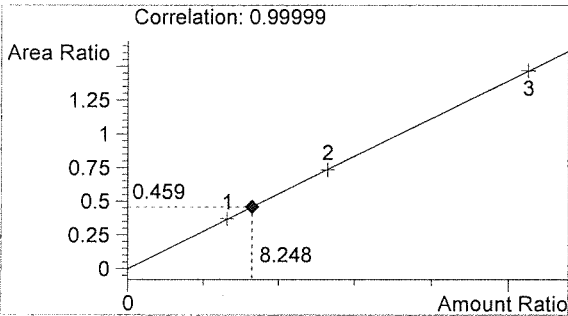
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Inj. Date: 6/30/2016 11:31:39 AM Sample Name: 16028-3
 Instrument: HSGC#1 Operator: Justin Knoy
 Column: DB-ALC1 Location: Vial 40
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

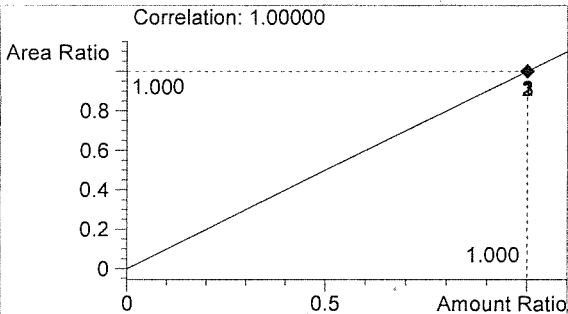
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1227 | 1.093 |
| 2 | n-Propanol | 2674 | 1.756 |



Ethanol 0.099 g/100mL



n-Propanol 0.012 g/100mL

JK

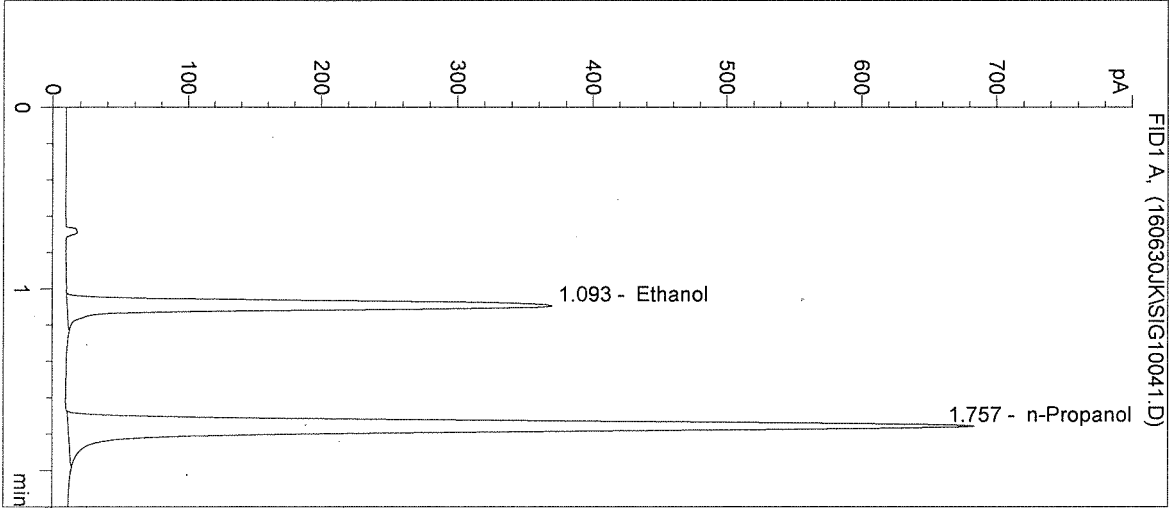
JK

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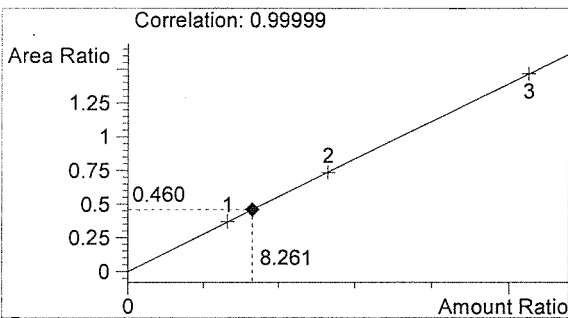
Inj. Date: 6/30/2016 11:34:52 AM
 Instrument: HSGC#1
 Column: DB-ALC1
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M

Sample Name: 16028-4
 Operator: Justin Knoy
 Location: Vial 41

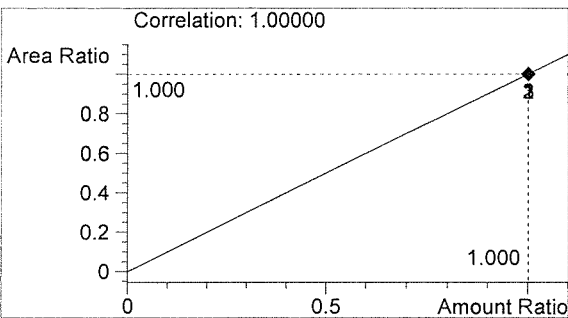
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1243 | 1.093 |
| 2 | n-Propanol | 2704 | 1.757 |



Ethanol 0.099 g/100mL



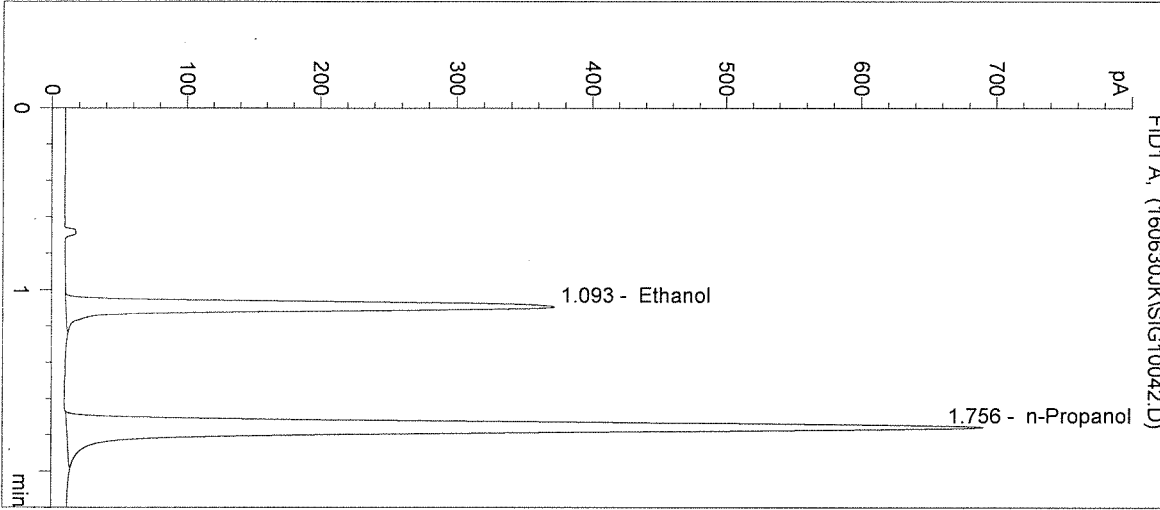
n-Propanol 0.012 g/100mL

fr

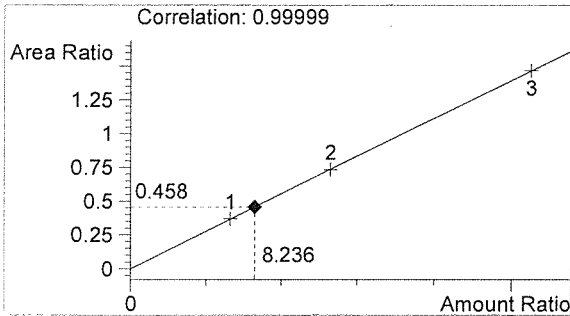
JK

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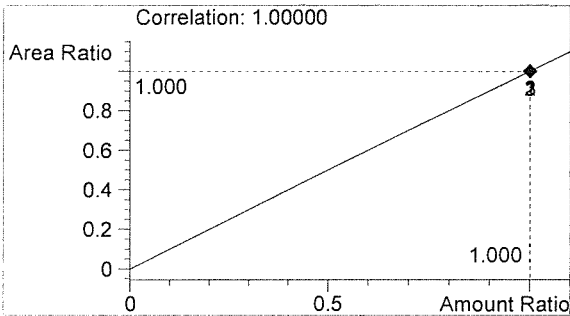
Inj. Date: 6/30/2016 11:38:06 AM Sample Name: 16028-5
 Instrument: HSGC#1 Operator: Justin Knoy
 Column: DB-ALC1 Location: Vial 42
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1252 | 1.093 |
| 2 | n-Propanol | 2731 | 1.756 |



Ethanol 0.099 g/100mL



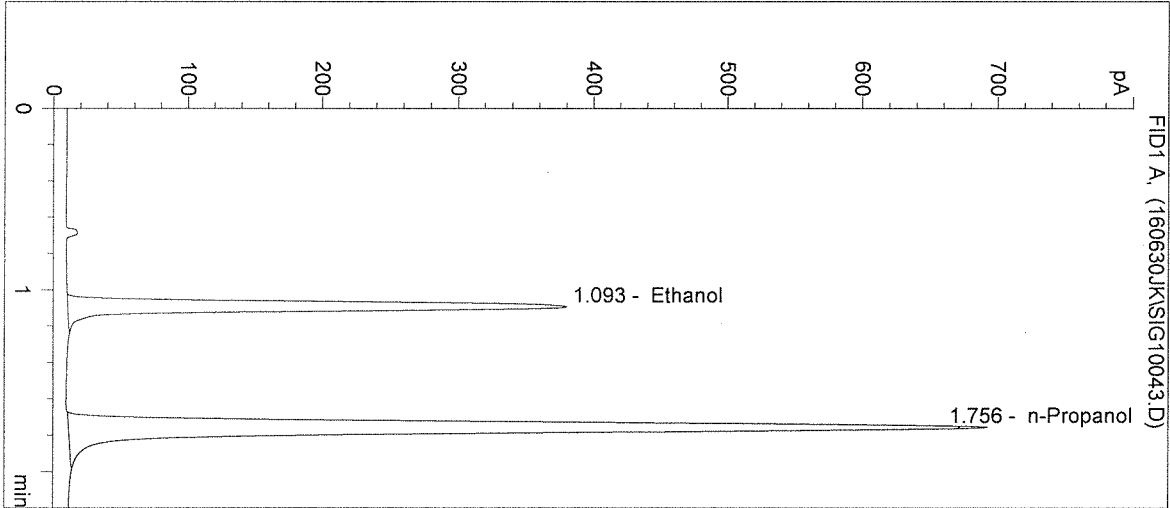
n-Propanol 0.012 g/100mL

JK

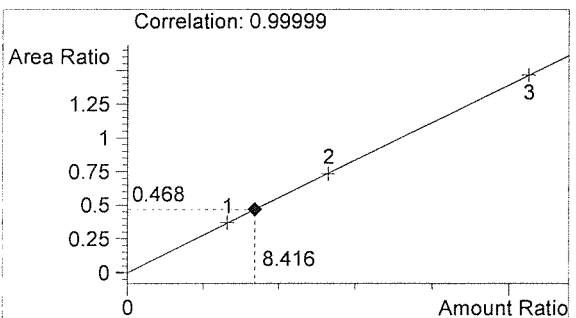
JK

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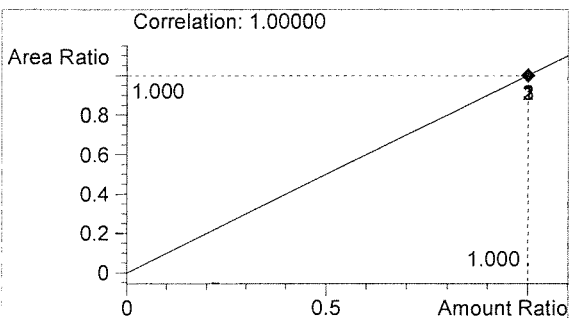
Inj. Date: 6/30/2016 11:41:18 AM Sample Name: 0.10 CTRL
 Instrument: HSGC#1 Operator: Justin Knoy
 Column: DB-ALC1 Location: Vial 43
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M
 Sample Info: 16028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1285 | 1.093 |
| 2 | n-Propanol | 2743 | 1.756 |



Ethanol 0.101 g/100mL



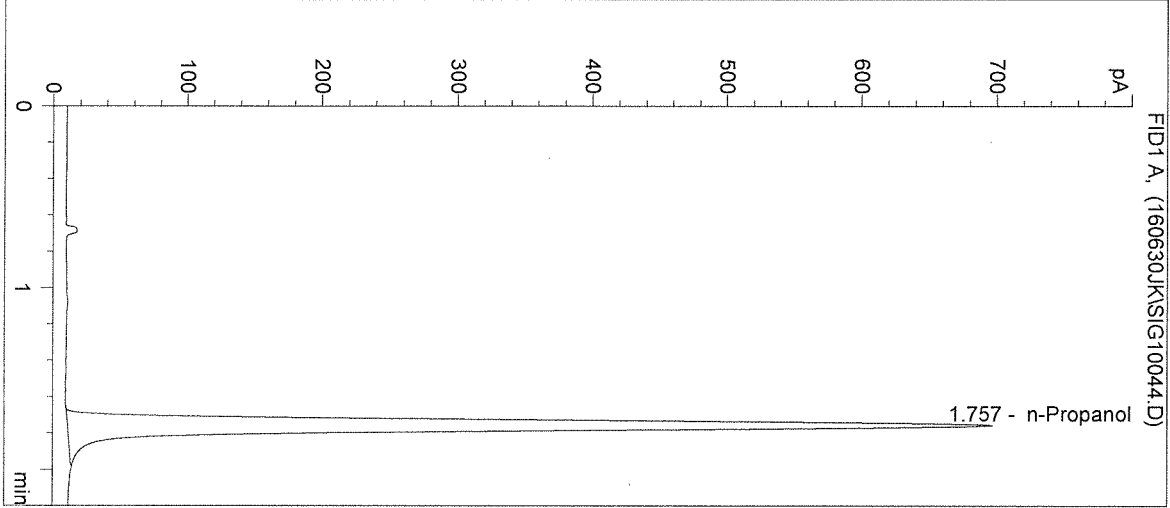
n-Propanol 0.012 g/100mL

JK

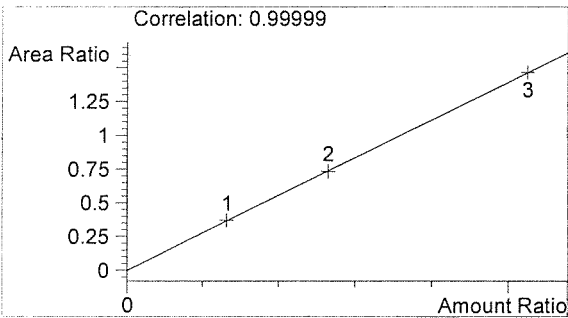
JK

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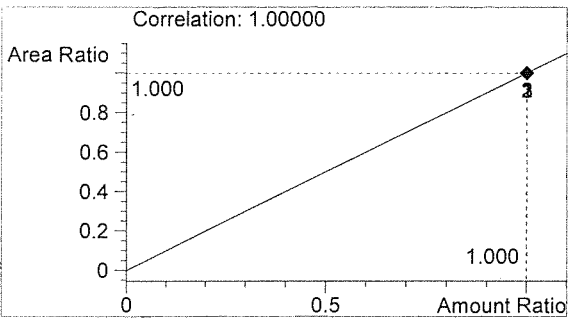
Inj. Date: 6/30/2016 11:44:32 AM Sample Name: NEG CTRL
Instrument: HSGC#1 Operator: Justin Knoy
Column: DB-ALC1 Location: Vial 44
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 2771 | 1.757 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

JK

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