



**QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT**

BATCH REPORT: 16020

**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: 0.15 g/210L  
DATE PREPARED: 05/20/2016  
BATCH UNITS: g/100mL

IDENTITY: QAP Solution  
PREPARED BY: Christopher S. Johnston

|   | CSJ   | AC    | KH    |
|---|-------|-------|-------|
| 1 | 0.185 | 0.188 | 0.181 |
| 2 | 0.187 | 0.187 | 0.184 |
| 3 | 0.188 | 0.187 | 0.183 |
| 4 | 0.187 | 0.188 | 0.182 |
| 5 | 0.186 | 0.187 | 0.183 |
| C | 0.102 | 0.102 | 0.099 |

**ETHANOL CONTROL INFORMATION**

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

**RESULTS OF TESTING**

AVERAGE SOLUTION CONCENTRATION: 0.1855 g/100mL PRECISION CV (%): 1.27  
STANDARD DEVIATION: 0.00236 NUMBER OF TESTS: 15

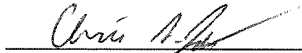

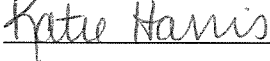
EQUIVALENT VAPOR CONCENTRATION: **0.1508 g/210L**  
EXPANDED UNCERTAINTY: ± 0.0044 (k=2, 95.45% confidence interval)

**WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION**

  
\_\_\_\_\_  
Lisa Noble Forensic Scientist Supervisor

6/29/16  
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

| ANALYST | NAME                    | SIGNATURE  | DATE TESTED |
|---------|-------------------------|--|-------------|
| CSJ     | Christopher S. Johnston |   | 05/20/2016  |
| AC      | Amanda Chandler         |  | 05/24/2016  |
| KH      | Katie Harris            |   | 05/27/2016  |

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

QAP Solution Batch #: 16020

Date Prepared: 5/20/2016

| Analyst:     | CSJ       | AC        | KH        |
|--------------|-----------|-----------|-----------|
| Date Tested: | 5/20/2016 | 5/24/2016 | 5/27/2016 |
| Instrument:  | HSGC #1   | HSGC #1   | HSGC #1   |
| 1            | 0.185     | 0.188     | 0.181     |
| 2            | 0.187     | 0.187     | 0.184     |
| 3            | 0.188     | 0.187     | 0.183     |
| 4            | 0.187     | 0.188     | 0.182     |
| 5            | 0.186     | 0.187     | 0.183     |
| C            | 0.102     | 0.102     | 0.099     |

|      | CV <sup>2</sup> <sub>COA</sub> | CV <sup>2</sup> <sub>QAP Solution</sub> | CV <sup>2</sup> <sub>Control</sub> | CV <sup>2</sup> <sub>Part Coef</sub> |
|------|--------------------------------|---|------------------------------------|--------------------------------------|
| 0.18 | 0.0000084100                   | 0.0000107534                            | 0.0000980296                       | 0.0001016326                         |

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

Average Solution Concentration: 0.1855 g/100mL  
 Standard Deviation: 0.00236 g/100mL  
 Precision CV (%): 1.27  
 Equivalent Vapor Concentration: 0.1508 g/210L  
 Combined Standard Uncertainty (±): 0.0022 g/210L  
 Expanded Uncertainty (±): 0.0044 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Lisa Noble [Signature] 6/13/16  
 Name Signature Date

Calculations verified by: Amanda M. Black [Signature] 6-28-16 Method: Hand calculation  
 Name Signature Date

Tech. review performed by: Lisa Noble [Signature] 6/13/16  
 Name Signature Date

*[Handwritten mark]*

**SIMULATOR SOLUTION DATA ENTRY REVIEW**

Reviewer/s: Amanda M. Black Date: 6-28-16

Location: WSP-FLSB Seattle, WA Solution Batch Number: 16020

|   | 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:<br>(lot # present & used within expiration)            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Complies with accuracy and precision requirements<br>established by the State Toxicologist: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments:

Reviewer Signature:  Date: 6-28-16



**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        | AZ       | 6/13/16 |
| Andrew Gingras         |          |         |
| Asa Louis              |          |         |
| Brittany Thomas        |          |         |
| Christie Mitchell-Mata |          |         |
| Christopher Johnston   | W        | 6/13/16 |
| David Nguyen           |          |         |
| Dawn Sklerov           |          |         |
| Elizabeth Wehner       |          |         |
| Justin Kroy            |          |         |
| Katie Harris           | KH       | 6/13/16 |
| Lyndsey Lowe           |          |         |
| Naziha Nuwayhid        |          |         |
| Rebecca Flaherty       |          |         |

Batch # 16020 Jn 6/13/16



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

**0.15 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION  
CERTIFICATION FOR LOT 16020**

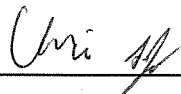
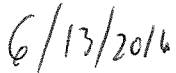
I, Christopher S. Johnston, do certify under penalty of perjury that:

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 16020, was prepared in the Washington State Toxicology Laboratory on 5/20/2016. 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 5/20/2017.

Seattle, WA

   
\_\_\_\_\_  
Christopher S. Johnston                      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

**0.15 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION  
CERTIFICATION FOR LOT 16020**

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 16020, was prepared in the Washington State Toxicology Laboratory on 5/20/2016. 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 5/20/2017.

Seattle, WA

 Amanda Chandler 4/13/16

Amanda Chandler

Date

Forensic Scientist

JAY INSLEE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL  
WASHINGTON STATE TOXICOLOGY LABORATORY

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**0.15 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION  
CERTIFICATION FOR LOT 16020**

I, Katie Harris, 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 in Biochemistry and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 16020, was prepared in the Washington State Toxicology Laboratory on 5/20/2016. 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 5/20/2017.

Seattle, WA

Katie Harris      6/13/16

Katie Harris

Date

Forensic Scientist



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

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

Preparation Date: 5/20/16 Expiration Date: 5/20/17 Initials of Preparer: CJ

Lot # of 200-proof Ethanol used in preparation: 2EA0437

Date the 200-proof Ethanol bottle was opened: 4/7/16

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

Environmental conditions verified as acceptable:

| Simulator Solution              | Volume of Ethanol (mL)  | Volume of Deionized Water (L) |                                     | Batch Number |
|---------------------------------|-------------------------|-------------------------------|-------------------------------------|--------------|
| QAP 0.04                        | 11.2                    | 18                            | <input checked="" type="checkbox"/> | <u>16017</u> |
| QAP 0.08                        | 22.4                    | 18                            | <input checked="" type="checkbox"/> | <u>16018</u> |
| <del>QAP 0.08</del><br>QAP 0.10 | <del>22.4</del><br>28.4 | 18                            | <input checked="" type="checkbox"/> | <u>16019</u> |
| QAP 0.15                        | 42.1                    | 18                            | <input checked="" type="checkbox"/> | <u>16020</u> |
| 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

5/20/16  
Date

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

Comments:

For operational needs I asked Chris to make two batches of 0.08 QAP.  
In 5/23/16

[Signature]  
Analyst Signature

5/20/16  
Date

[Signature]



Sequence Parameters:

Operator: Chris Johnston  
 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: 160520CJ  
 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#P0316 - Exp. 06/29/2016

Calibration vials 1-9 filed with 16017.

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  | 16017-1     | SIMALC1 | 1   | Sample     |           |          |
| 11   | Vial 11  | 16017-2     | SIMALC1 | 1   | Sample     |           |          |
| 12   | Vial 12  | 16017-3     | SIMALC1 | 1   | Sample     |           |          |
| 13   | Vial 13  | 16017-4     | SIMALC1 | 1   | Sample     |           |          |
| 14   | Vial 14  | 16017-5     | 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  | 16018-1     | SIMALC1 | 1   | Sample     |           |          |
| 18   | Vial 18  | 16018-2     | SIMALC1 | 1   | Sample     |           |          |
| 19   | Vial 19  | 16018-3     | SIMALC1 | 1   | Sample     |           |          |
| 20   | Vial 20  | 16018-4     | SIMALC1 | 1   | Sample     |           |          |
| 21   | Vial 21  | 16018-5     | 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  | 16019-1     | SIMALC1 | 1   | Sample     |           |          |
| 25   | Vial 25  | 16019-2     | SIMALC1 | 1   | Sample     |           |          |
| 26   | Vial 26  | 16019-3     | SIMALC1 | 1   | Sample     |           |          |

16020  
*fn 01/13/16*

W W

| Line | Location | SampleName | Method  | Inj | SampleType | InjVolume | DataFile |
|------|----------|------------|---------|-----|------------|-----------|----------|
| 27   | Vial 27  | 16019-4    | SIMALC1 | 1   | Sample     |           |          |
| 28   | Vial 28  | 16019-5    | 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  | 16020-1    | SIMALC1 | 1   | Sample     |           |          |
| 32   | Vial 32  | 16020-2    | SIMALC1 | 1   | Sample     |           |          |
| 33   | Vial 33  | 16020-3    | SIMALC1 | 1   | Sample     |           |          |
| 34   | Vial 34  | 16020-4    | SIMALC1 | 1   | Sample     |           |          |
| 35   | Vial 35  | 16020-5    | SIMALC1 | 1   | Sample     |           |          |
| 36   | Vial 36  | 0.10 CTRL  | 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   | 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!

16020  
In 6/13/16

✓

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

Inj. Date: 5/20/2016 4:00:16 PM

Sample Name: 16020-1

Instrument: HSGC#1

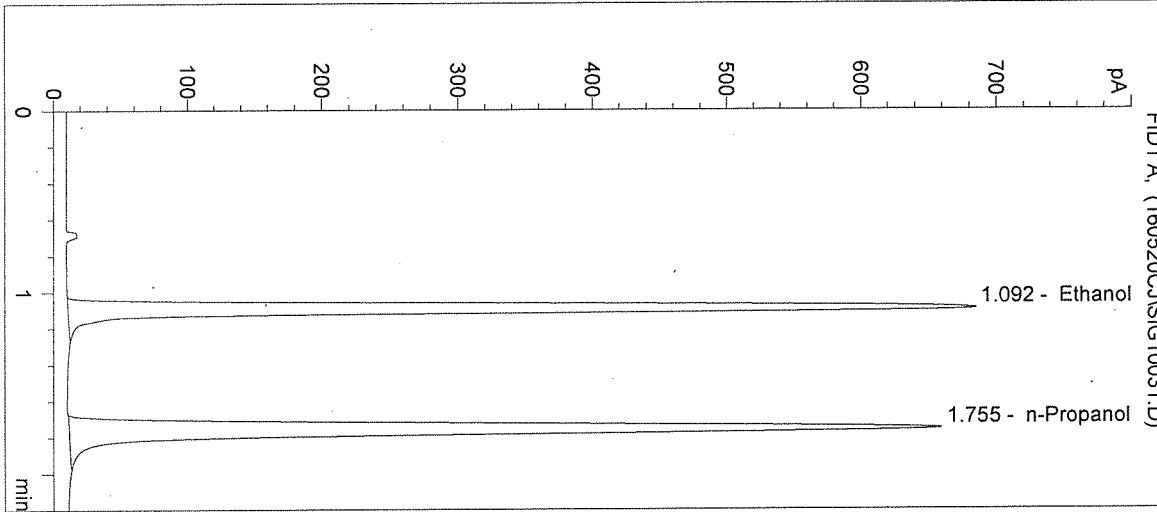
Operator: Chris Johnston

Column: DB-ALC1

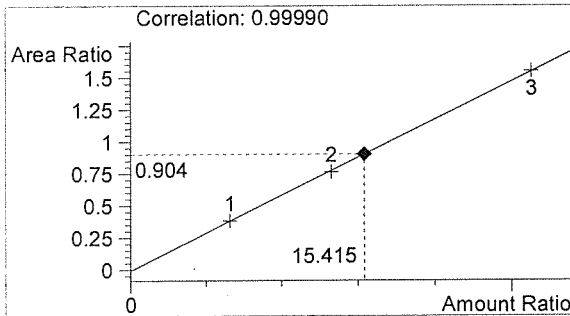
Location: Vial 31

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

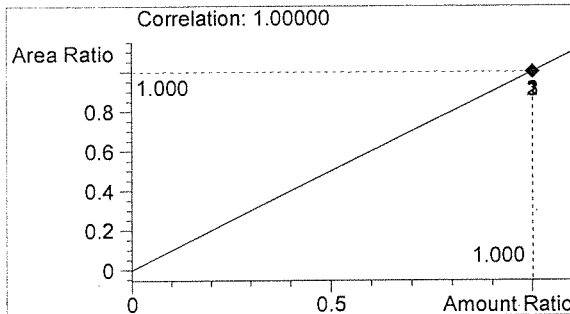
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2337      | 1.092    |
| 2 | n-Propanol | 2584      | 1.755    |



Ethanol 0.185 g/100mL



n-Propanol 0.012 g/100mL

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Inj. Date: 5/20/2016 4:03:29 PM

Sample Name: 16020-2

Instrument: HSGC#1

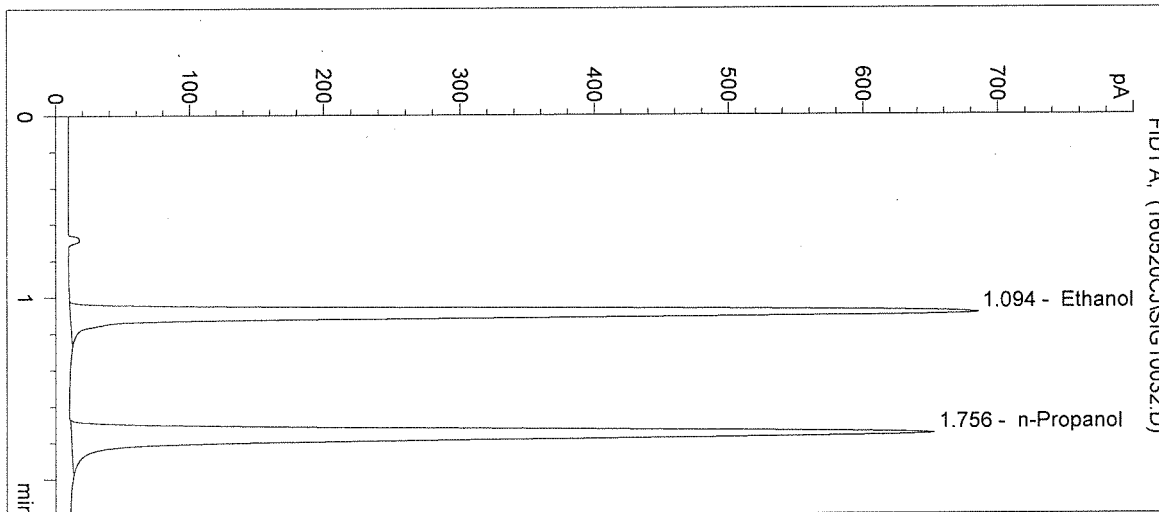
Operator: Chris Johnston

Column: DB-ALC1

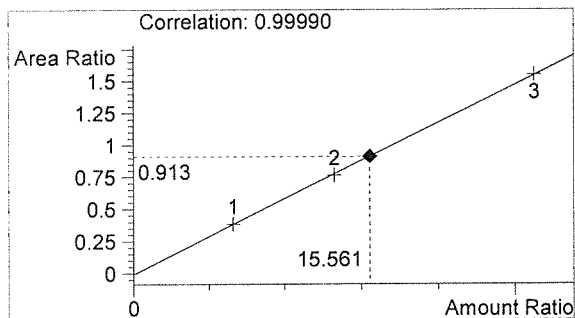
Location: Vial 32

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

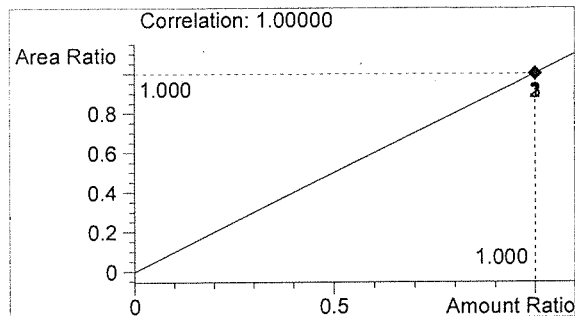
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2324      | 1.094    |
| 2 | n-Propanol | 2546      | 1.756    |



Ethanol 0.187 g/100mL

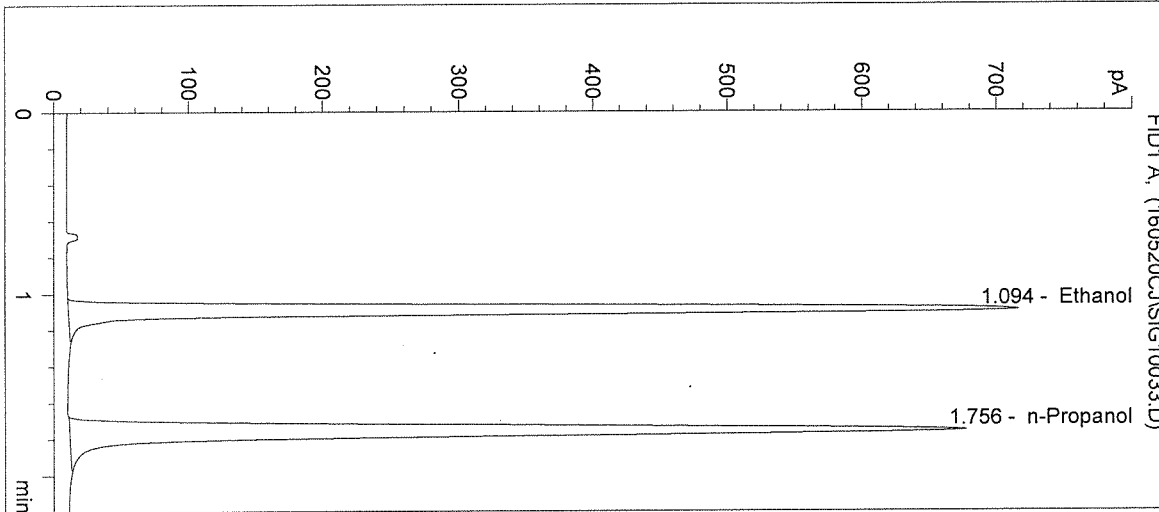


n-Propanol 0.012 g/100mL

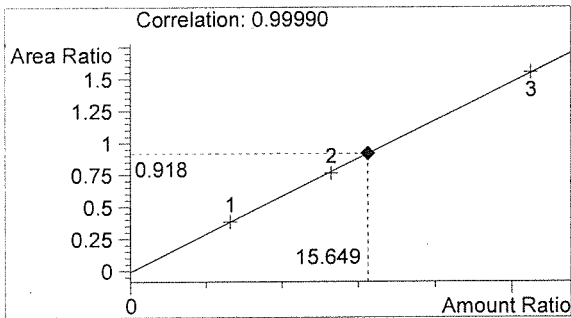
*fr*

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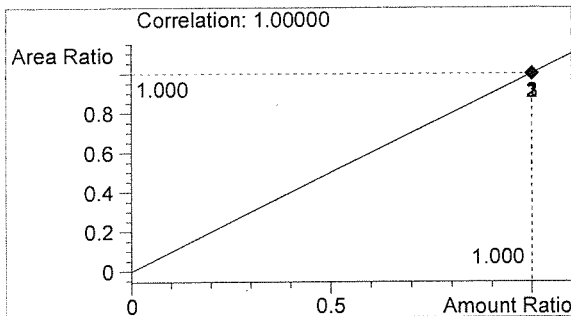
Inj. Date: 5/20/2016 4:06:42 PM      Sample Name: 16020-3  
Instrument: HSGC#1      Operator: Chris Johnston  
Column: DB-ALC1      Location: Vial 33  
Method: C:\HPCHEM\1\METHODS\SIMALC1.M  
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2431      | 1.094    |
| 2 | n-Propanol | 2648      | 1.756    |



Ethanol      0.188 g/100mL

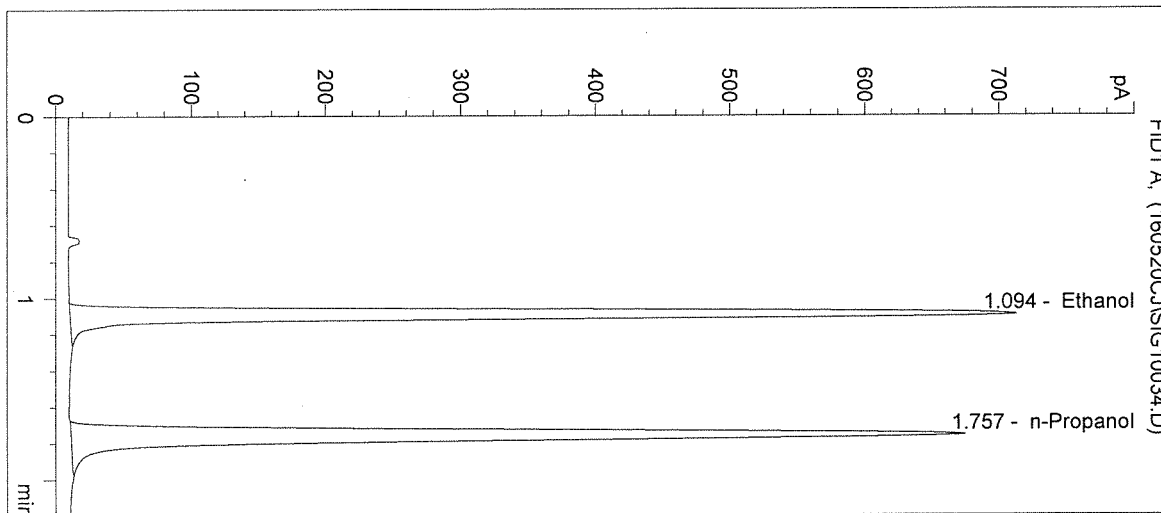


n-Propanol      0.012 g/100mL

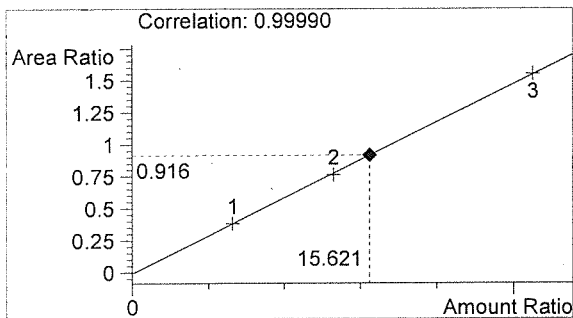
*Handwritten signature*

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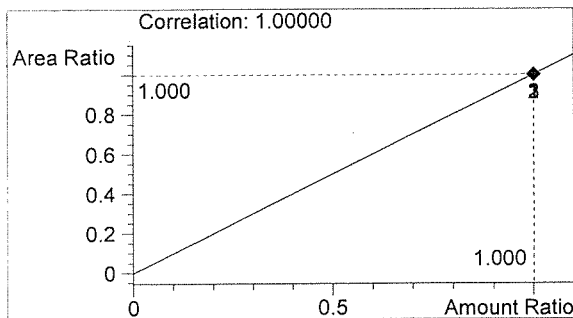
Inj. Date: 5/20/2016 4:09:56 PM      Sample Name: 16020-4  
 Instrument: HSGC#1      Operator: Chris Johnston  
 Column: DB-ALC1      Location: Vial 34  
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M  
 Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2426      | 1.094    |
| 2 | n-Propanol | 2648      | 1.757    |



Ethanol      0.187 g/100mL



n-Propanol      0.012 g/100mL

*Handwritten signature*

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Inj. Date: 5/20/2016 4:13:09 PM

Sample Name: 16020-5

Instrument: HSGC#1

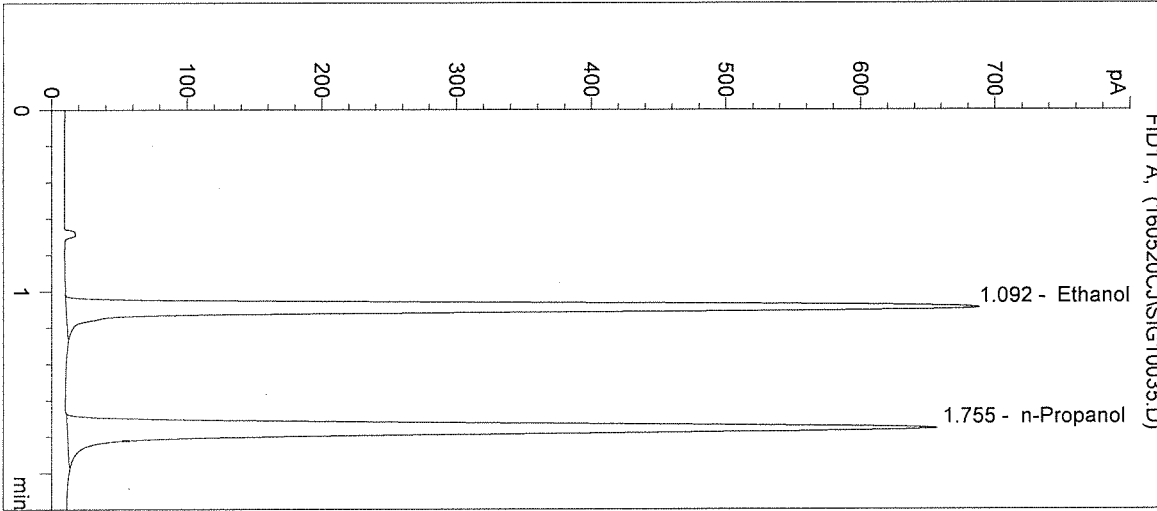
Operator: Chris Johnston

Column: DB-ALC1

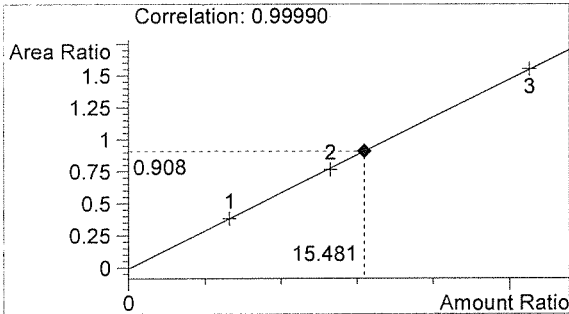
Location: Vial 35

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

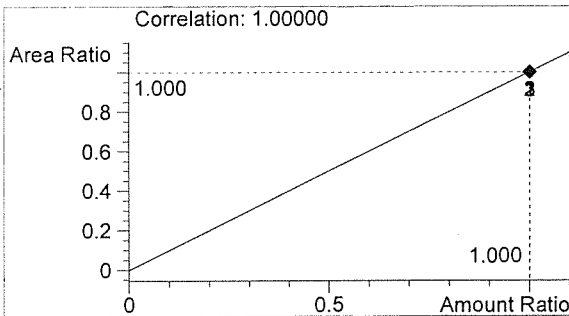
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2328      | 1.092    |
| 2 | n-Propanol | 2564      | 1.755    |



Ethanol 0.186 g/100mL



n-Propanol 0.012 g/100mL

*Handwritten signature*

*Handwritten mark*

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

Inj. Date: 5/20/2016 4:16:23 PM

Sample Name: 0.10 CTRL

Instrument: HSGC#1

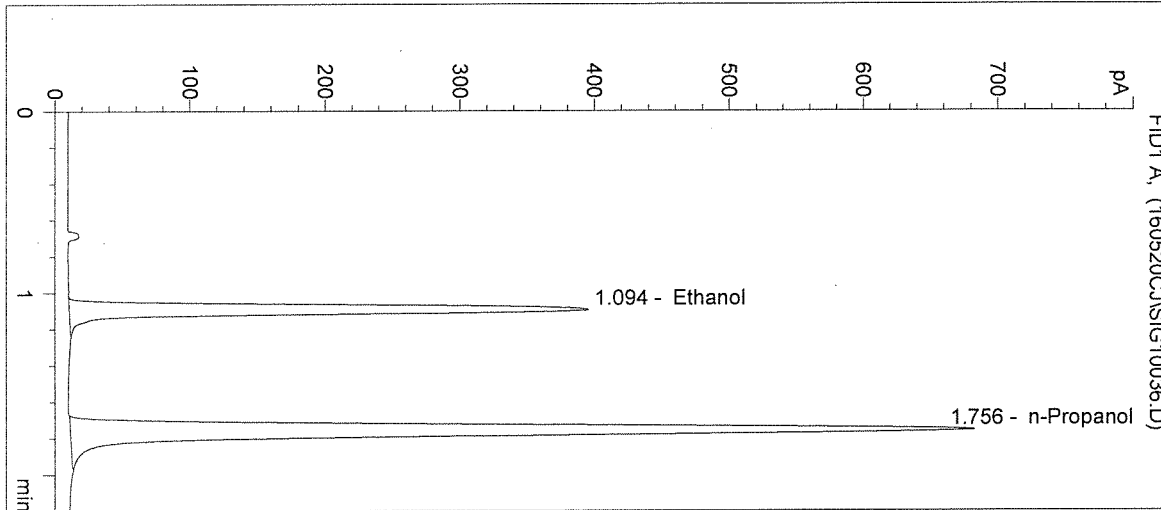
Operator: Chris Johnston

Column: DB-ALC1

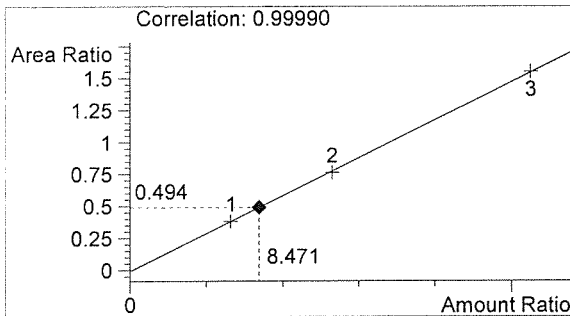
Location: Vial 36

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

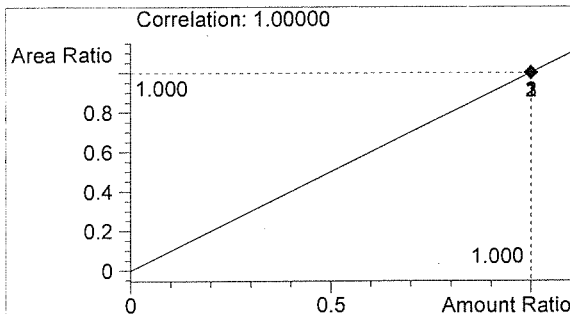
Sample Info: 16020



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 1319      | 1.094    |
| 2 | n-Propanol | 2669      | 1.756    |



Ethanol 0.102 g/100mL



n-Propanol 0.012 g/100mL

*h*

*w*



Inj. Date: 5/20/2016 4:19:37 PM

Sample Name: NEG CTRL

Instrument: HSGC#1

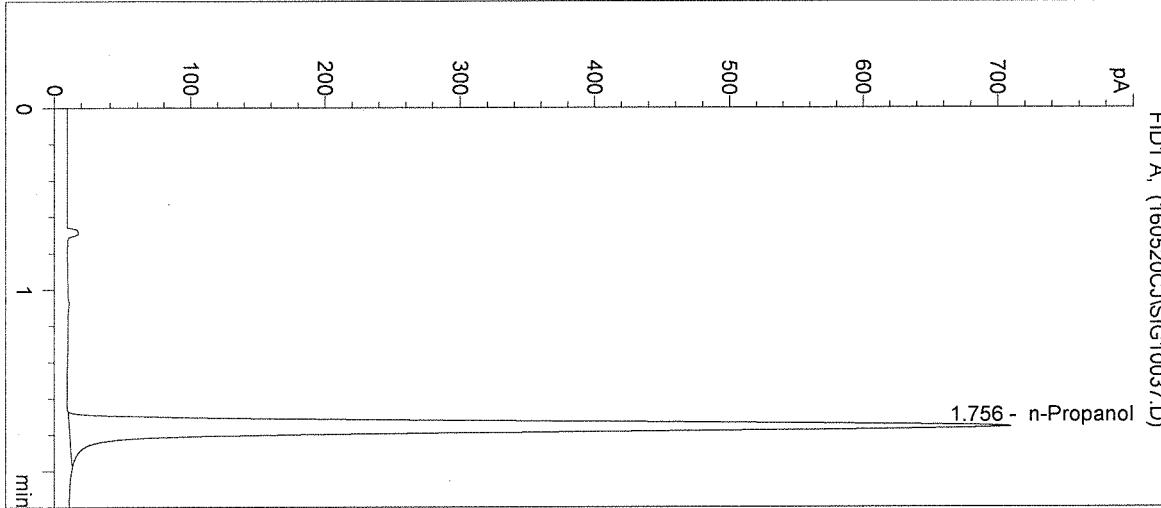
Operator: Chris Johnston

Column: DB-ALC1

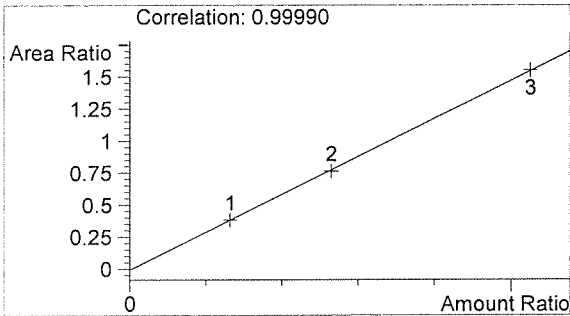
Location: Vial 37

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

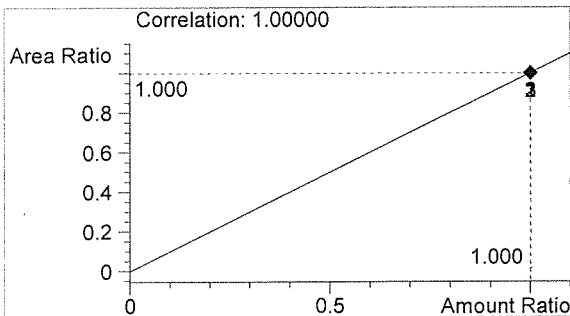
Sample Info: 16020



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 0         | 0.000    |
| 2 | n-Propanol | 2794      | 1.756    |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

*fr*

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: 160524AC  
 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#P0316 - Exp. 06/29/2016

Calibration vials 1-9 filed with 16017.

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  | 16017-1     | SIMALC1 | 1   | Sample     |           |          |
| 11   | Vial 11  | 16017-2     | SIMALC1 | 1   | Sample     |           |          |
| 12   | Vial 12  | 16017-3     | SIMALC1 | 1   | Sample     |           |          |
| 13   | Vial 13  | 16017-4     | SIMALC1 | 1   | Sample     |           |          |
| 14   | Vial 14  | 16017-5     | 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  | 16018-1     | SIMALC1 | 1   | Sample     |           |          |
| 18   | Vial 18  | 16018-2     | SIMALC1 | 1   | Sample     |           |          |
| 19   | Vial 19  | 16018-3     | SIMALC1 | 1   | Sample     |           |          |
| 20   | Vial 20  | 16018-4     | SIMALC1 | 1   | Sample     |           |          |
| 21   | Vial 21  | 16018-5     | 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  | 16019-1     | SIMALC1 | 1   | Sample     |           |          |
| 25   | Vial 25  | 16019-2     | SIMALC1 | 1   | Sample     |           |          |
| 26   | Vial 26  | 16019-3     | SIMALC1 | 1   | Sample     |           |          |

16020  
*Jub/13/16*

*R*

| Line | Location | SampleName | Method  | Inj | SampleType | InjVolume | DataFile |
|------|----------|------------|---------|-----|------------|-----------|----------|
| 27   | Vial 27  | 16019-4    | SIMALC1 | 1   | Sample     |           |          |
| 28   | Vial 28  | 16019-5    | 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  | 16020-1    | SIMALC1 | 1   | Sample     |           |          |
| 32   | Vial 32  | 16020-2    | SIMALC1 | 1   | Sample     |           |          |
| 33   | Vial 33  | 16020-3    | SIMALC1 | 1   | Sample     |           |          |
| 34   | Vial 34  | 16020-4    | SIMALC1 | 1   | Sample     |           |          |
| 35   | Vial 35  | 16020-5    | SIMALC1 | 1   | Sample     |           |          |
| 36   | Vial 36  | 0.10 CTRL  | 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   | 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!

16020

*Jn01/3/16*

*AC*

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

Inj. Date: 5/24/2016 2:11:10 PM

Sample Name: 16020-1

Instrument: HSGC#1

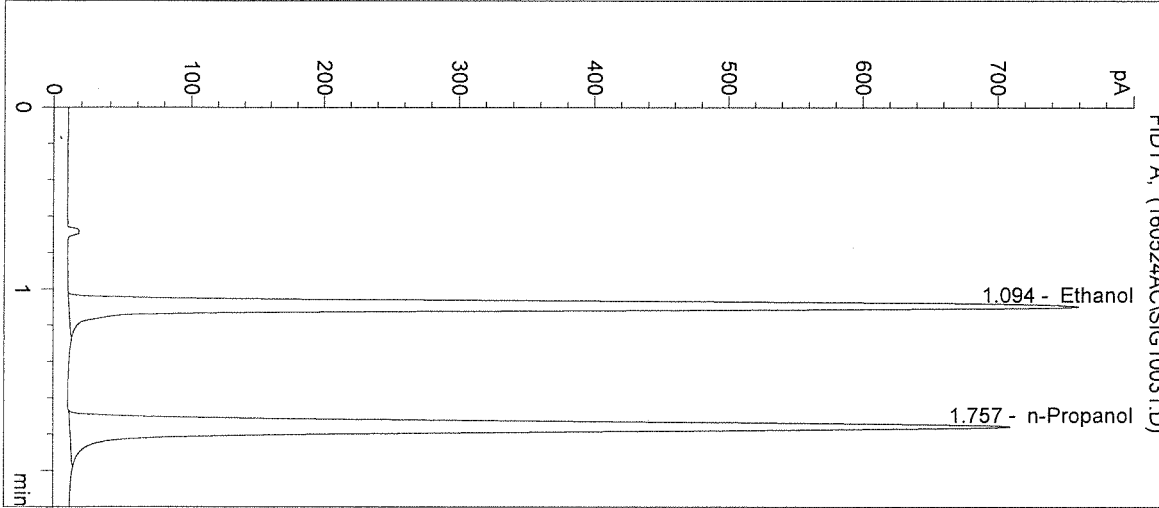
Operator: Amanda Chandler

Column: DB-ALC1

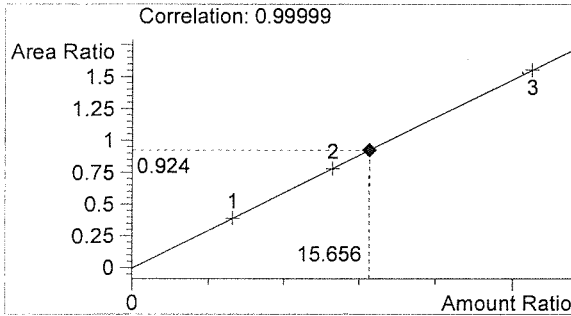
Location: Vial 31

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

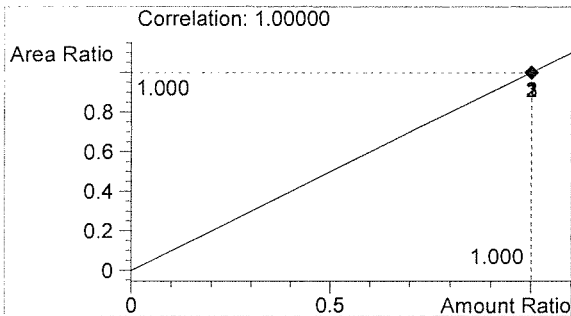
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2563      | 1.094    |
| 2 | n-Propanol | 2774      | 1.757    |



Ethanol 0.188 g/100mL



n-Propanol 0.012 g/100mL

*gr*

*AC*

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

Inj. Date: 5/24/2016 2:14:24 PM

Sample Name: 16020-2

Instrument: HSGC#1

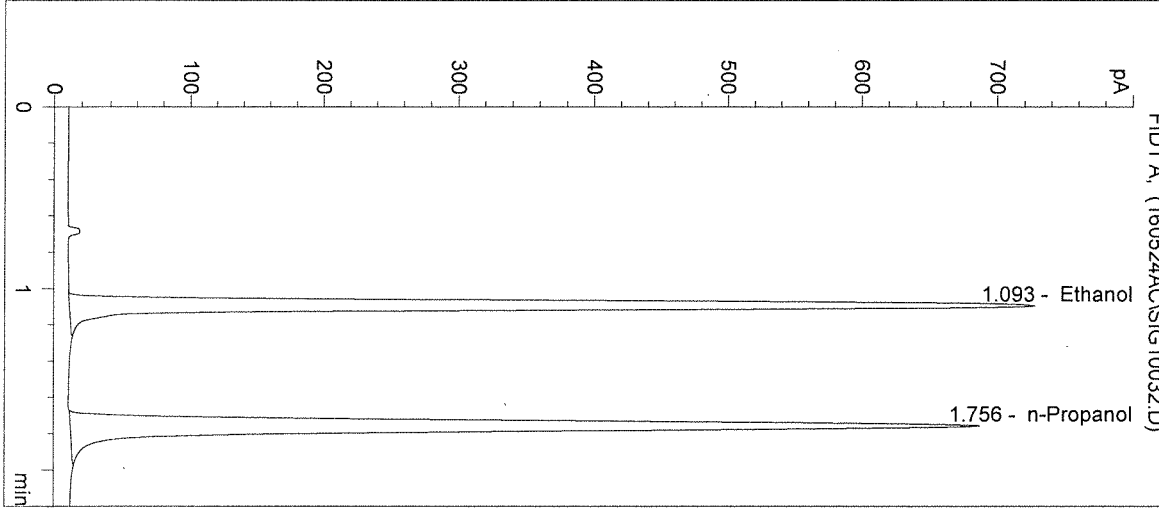
Operator: Amanda Chandler

Column: DB-ALC1

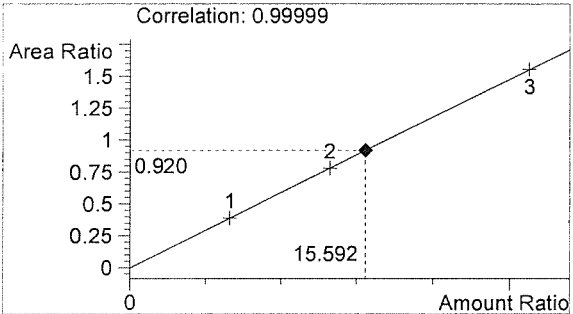
Location: Vial 32

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

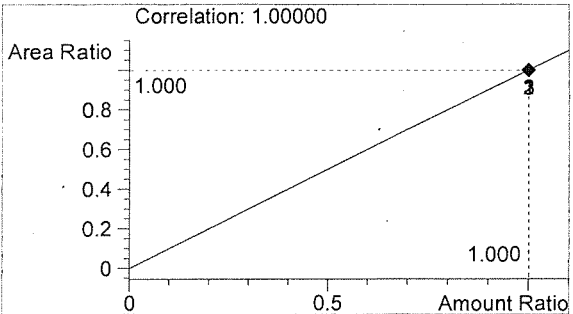
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2459      | 1.093    |
| 2 | n-Propanol | 2672      | 1.756    |



Ethanol 0.187 g/100mL



n-Propanol 0.012 g/100mL

*fr*

*AR*

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

Inj. Date: 5/24/2016 2:17:37 PM

Sample Name: 16020-3

Instrument: HSGC#1

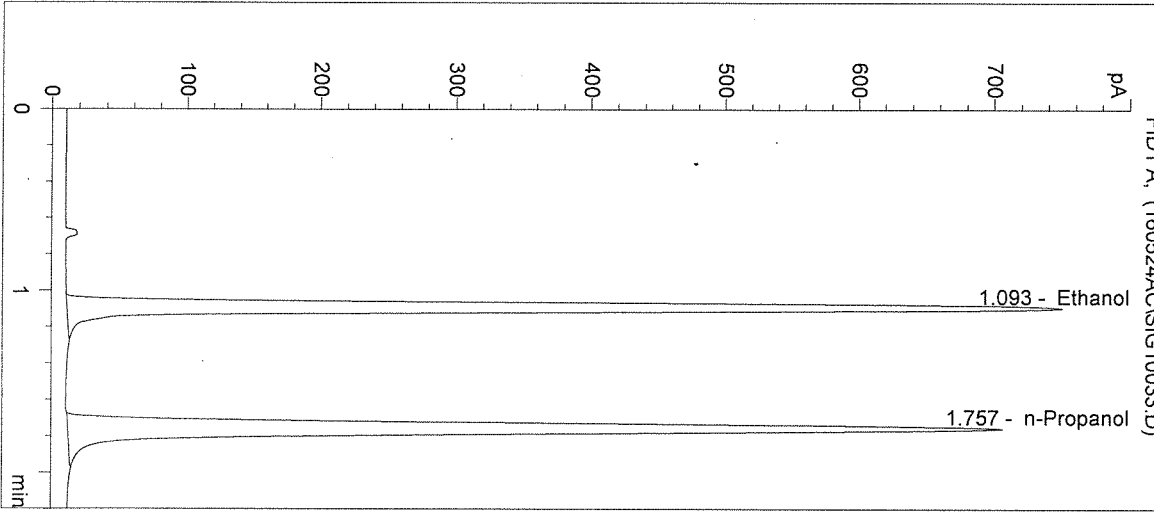
Operator: Amanda Chandler

Column: DB-ALC1

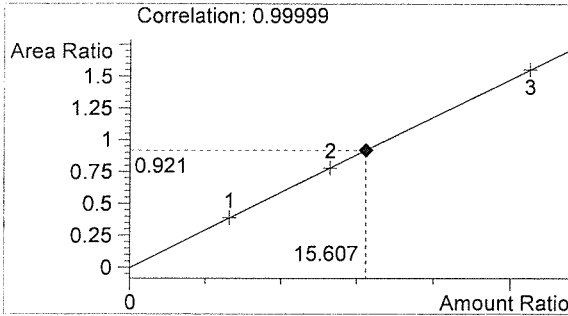
Location: Vial 33

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

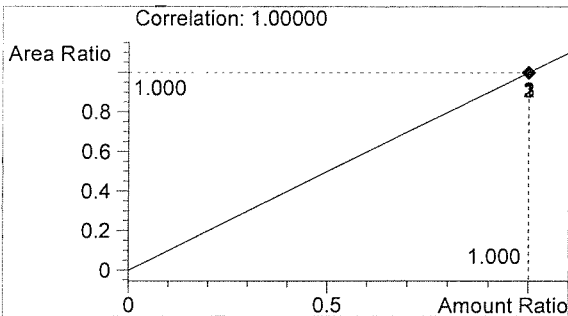
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2536      | 1.093    |
| 2 | n-Propanol | 2753      | 1.757    |



Ethanol 0.187 g/100mL



n-Propanol 0.012 g/100mL

*gr*

*AC*

Inj. Date: 5/24/2016 2:20:50 PM

Sample Name: 16020-4

Instrument: HSGC#1

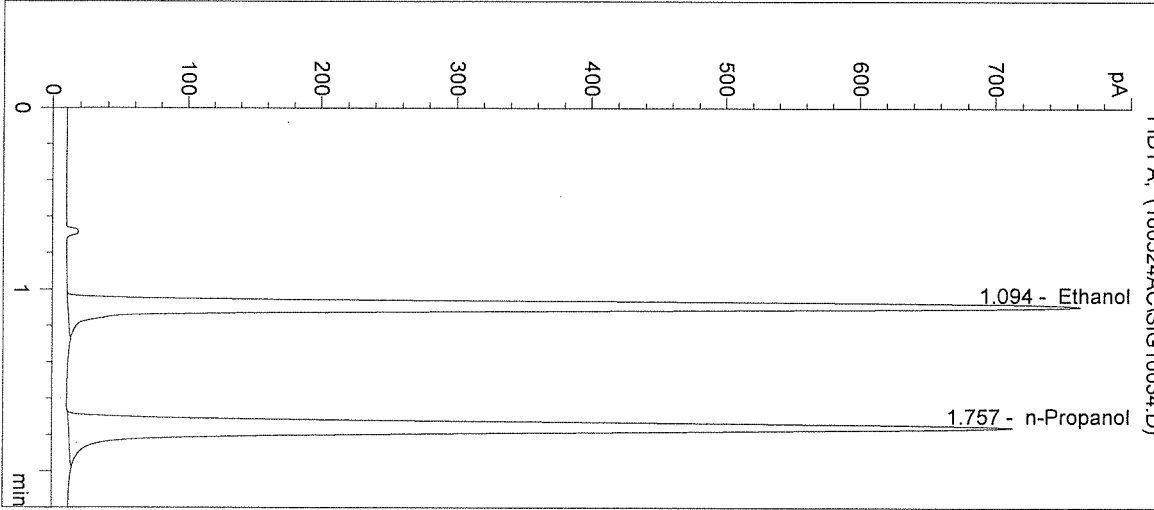
Operator: Amanda Chandler

Column: DB-ALC1

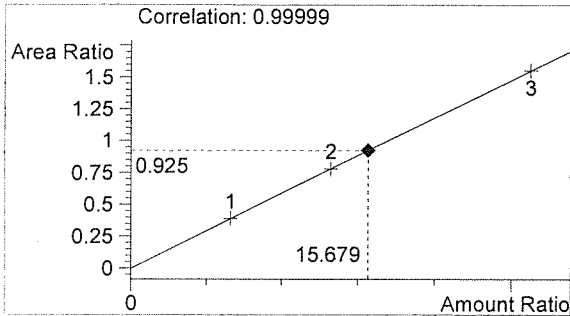
Location: Vial 34

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

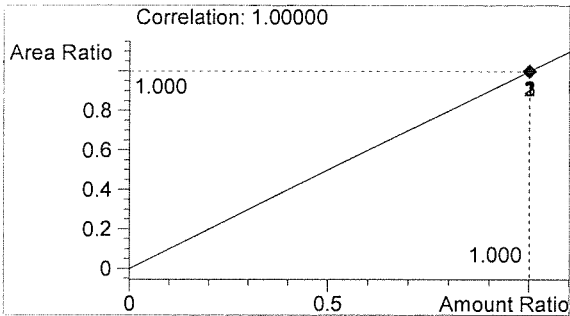
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2576      | 1.094    |
| 2 | n-Propanol | 2783      | 1.757    |



Ethanol 0.188 g/100mL



n-Propanol 0.012 g/100mL

*for*

*AZ*

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

Inj. Date: 5/24/2016 2:24:04 PM

Sample Name: 16020-5

Instrument: HSGC#1

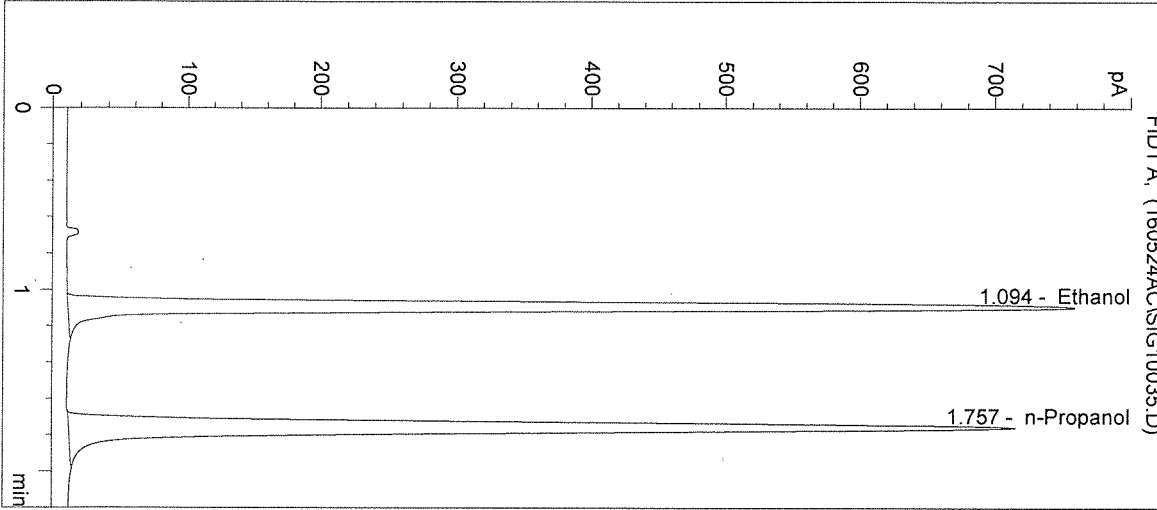
Operator: Amanda Chandler

Column: DB-ALC1

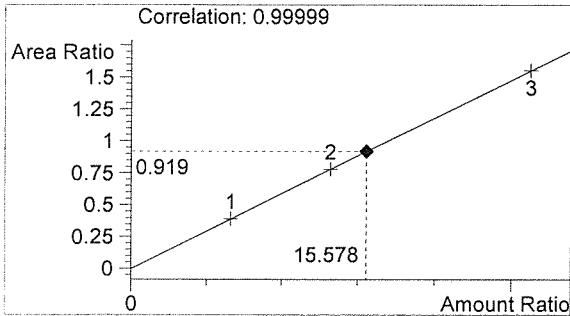
Location: Vial 35

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

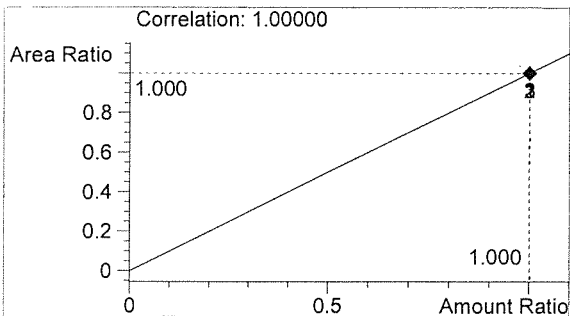
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2566      | 1.094    |
| 2 | n-Propanol | 2791      | 1.757    |



Ethanol 0.187 g/100mL



n-Propanol 0.012 g/100mL

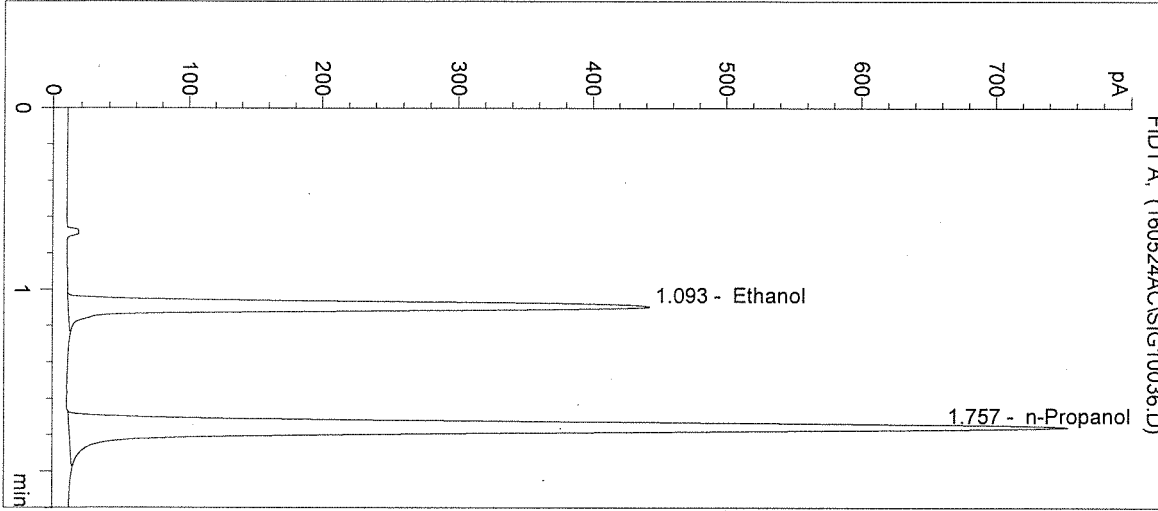
*gr*

*AC*

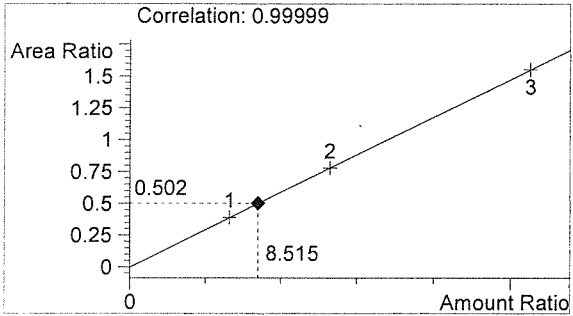


Washington State Patrol Toxicology Laboratory  
 2203 Airport Way S Seattle, WA 98134

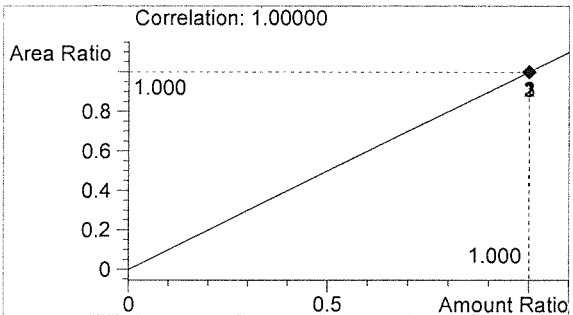
Inj. Date: 5/24/2016 2:27:16 PM      Sample Name: 0.10 CTRL  
 Instrument: HSGC#1      Operator: Amanda Chandler  
 Column: DB-ALC1      Location: Vial 36  
 Method: C:\HPCHEM\1\METHODS\SIMALC1.M  
 Sample Info: 16020



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 1476      | 1.093    |
| 2 | n-Propanol | 2941      | 1.757    |



Ethanol      0.102 g/100mL

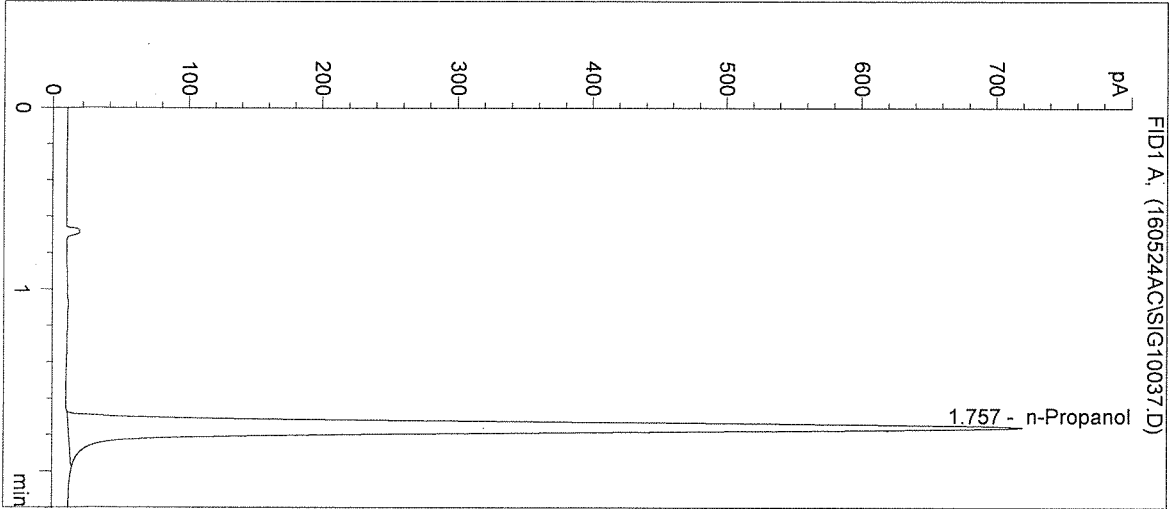


n-Propanol      0.012 g/100mL

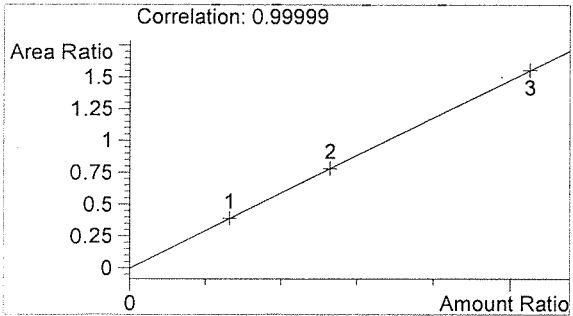
*fr*

*AR*

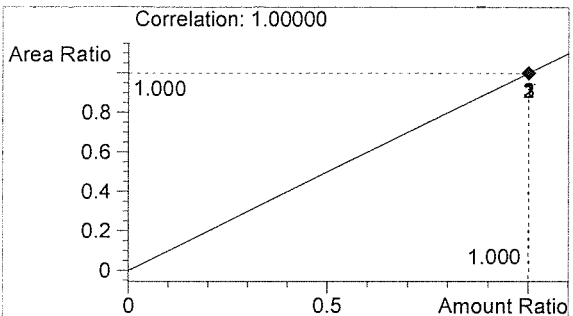
Inj. Date: 5/24/2016 2:30:30 PM      Sample Name: NEG CTRL  
Instrument: HSGC#1      Operator: Amanda Chandler  
Column: DB-ALC1      Location: Vial 37  
Method: C:\HPCHEM\1\METHODS\SIMALC1.M  
Sample Info: 16020



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 0         | 0.000    |
| 2 | n-Propanol | 2809      | 1.757    |



Ethanol      0.000 g/100mL



n-Propanol      0.012 g/100mL

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Sequence Parameters:

Operator: Katie Harris  
 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: 160527KH  
 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#P0316 - Exp. 06/29/2016

Calibration vials 1-9 filed with 16017.

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  | 16017-1     | SIMALC1 | 1   | Sample     |           |          |
| 11   | Vial 11  | 16017-2     | SIMALC1 | 1   | Sample     |           |          |
| 12   | Vial 12  | 16017-3     | SIMALC1 | 1   | Sample     |           |          |
| 13   | Vial 13  | 16017-4     | SIMALC1 | 1   | Sample     |           |          |
| 14   | Vial 14  | 16017-5     | 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  | 16018-1     | SIMALC1 | 1   | Sample     |           |          |
| 18   | Vial 18  | 16018-2     | SIMALC1 | 1   | Sample     |           |          |
| 19   | Vial 19  | 16018-3     | SIMALC1 | 1   | Sample     |           |          |
| 20   | Vial 20  | 16018-4     | SIMALC1 | 1   | Sample     |           |          |
| 21   | Vial 21  | 16018-5     | 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  | 16019-1     | SIMALC1 | 1   | Sample     |           |          |
| 25   | Vial 25  | 16019-2     | SIMALC1 | 1   | Sample     |           |          |
| 26   | Vial 26  | 16019-3     | SIMALC1 | 1   | Sample     |           |          |

16020  
 fn011316

KH

| Line | Location | SampleName | Method  | Inj | SampleType | InjVolume | DataFile |
|------|----------|------------|---------|-----|------------|-----------|----------|
| 27   | Vial 27  | 16019-4    | SIMALC1 | 1   | Sample     |           |          |
| 28   | Vial 28  | 16019-5    | 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  | 16020-1    | SIMALC1 | 1   | Sample     |           |          |
| 32   | Vial 32  | 16020-2    | SIMALC1 | 1   | Sample     |           |          |
| 33   | Vial 33  | 16020-3    | SIMALC1 | 1   | Sample     |           |          |
| 34   | Vial 34  | 16020-4    | SIMALC1 | 1   | Sample     |           |          |
| 35   | Vial 35  | 16020-5    | SIMALC1 | 1   | Sample     |           |          |
| 36   | Vial 36  | 0.10 CTRL  | 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   | 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!

16020

*6/13/16*

*KH*

Inj. Date: 5/27/2016 1:02:41 PM

Sample Name: 16020-1

Instrument: HSGC#1

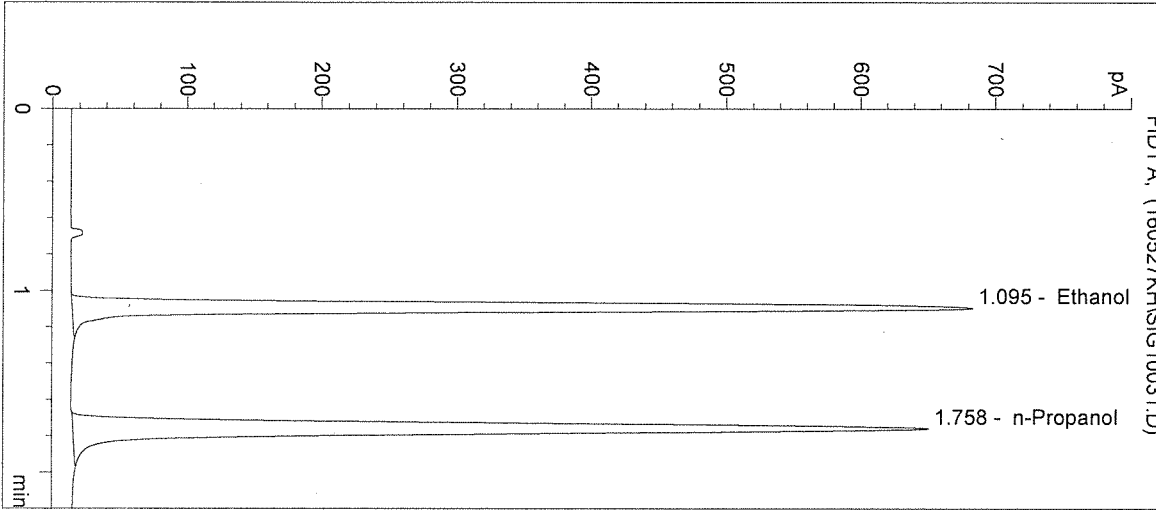
Operator: Katie Harris

Column: DB-ALC1

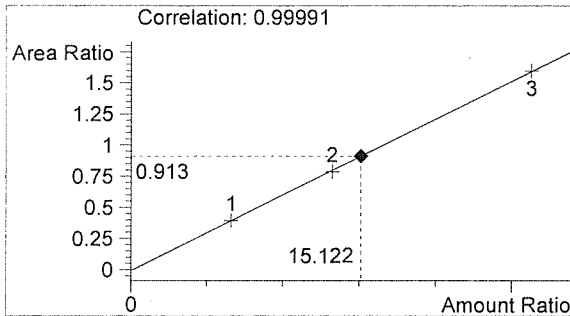
Location: Vial 31

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

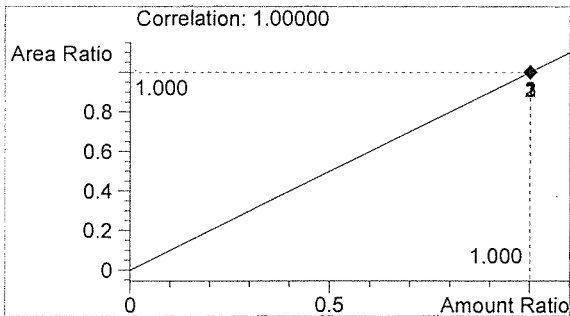
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2313      | 1.095    |
| 2 | n-Propanol | 2535      | 1.758    |



Ethanol 0.181 g/100mL



n-Propanol 0.012 g/100mL

*fr*

*KH*

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

Inj. Date: 5/27/2016 1:05:54 PM

Sample Name: 16020-2

Instrument: HSGC#1

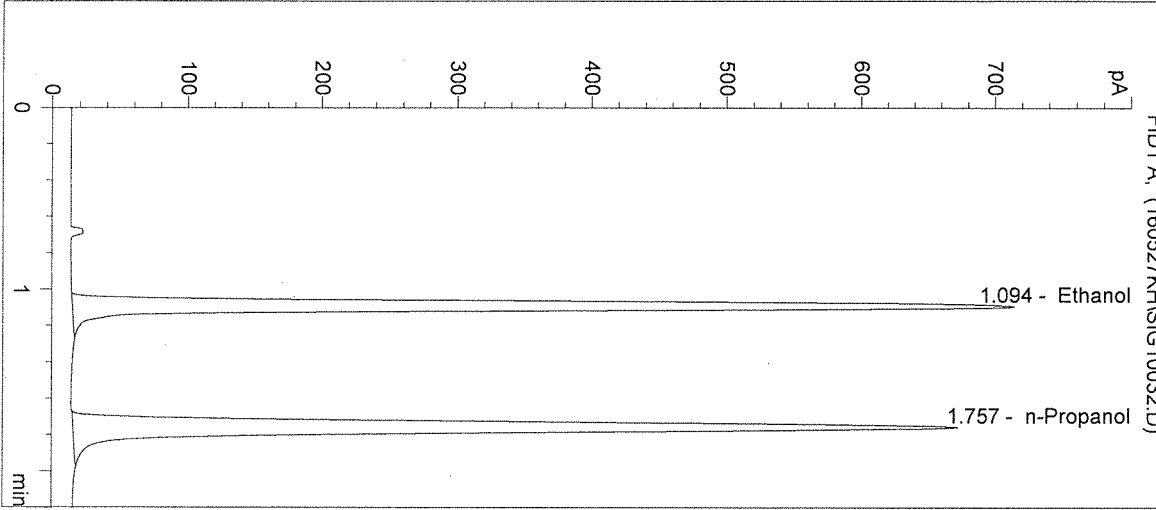
Operator: Katie Harris

Column: DB-ALC1

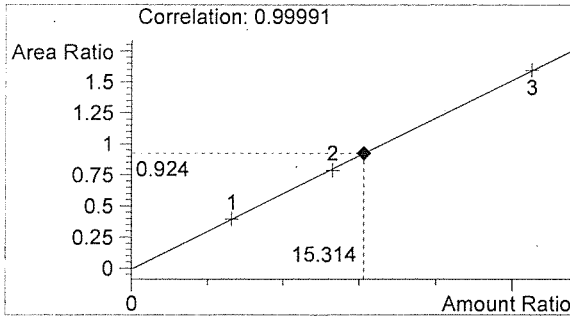
Location: Vial 32

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

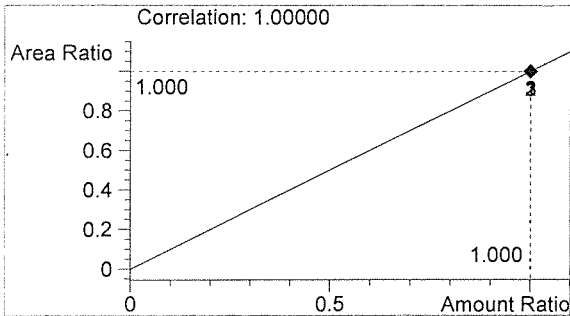
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2416      | 1.094    |
| 2 | n-Propanol | 2614      | 1.757    |



Ethanol 0.184 g/100mL



n-Propanol 0.012 g/100mL

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*KH*

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 2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 1:09:08 PM

Sample Name: 16020-3

Instrument: HSGC#1

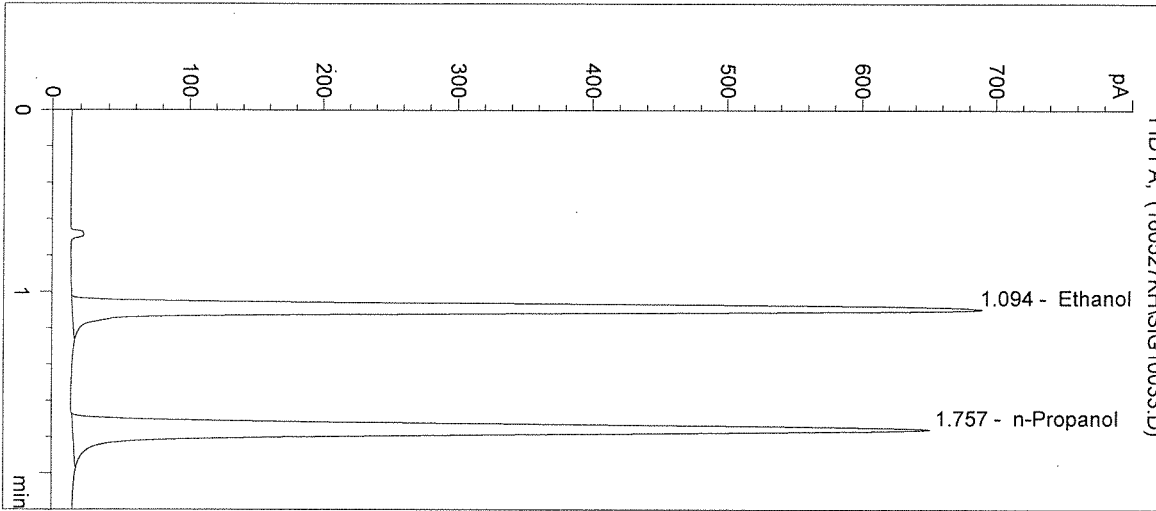
Operator: Katie Harris

Column: DB-ALC1

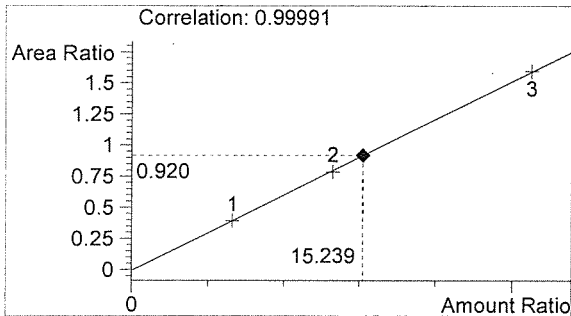
Location: Vial 33

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

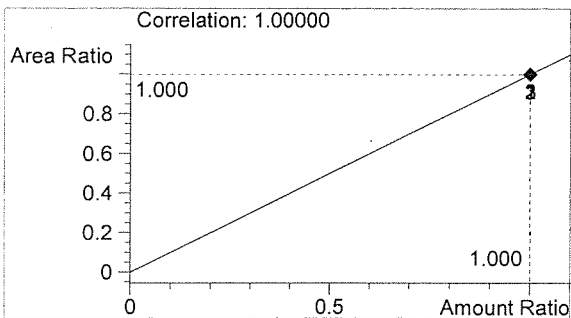
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2316      | 1.094    |
| 2 | n-Propanol | 2519      | 1.757    |



Ethanol 0.183 g/100mL



n-Propanol 0.012 g/100mL

*Handwritten signature*

*Handwritten initials*

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Inj. Date: 5/27/2016 1:12:21 PM

Sample Name: 16020-4

Instrument: HSGC#1

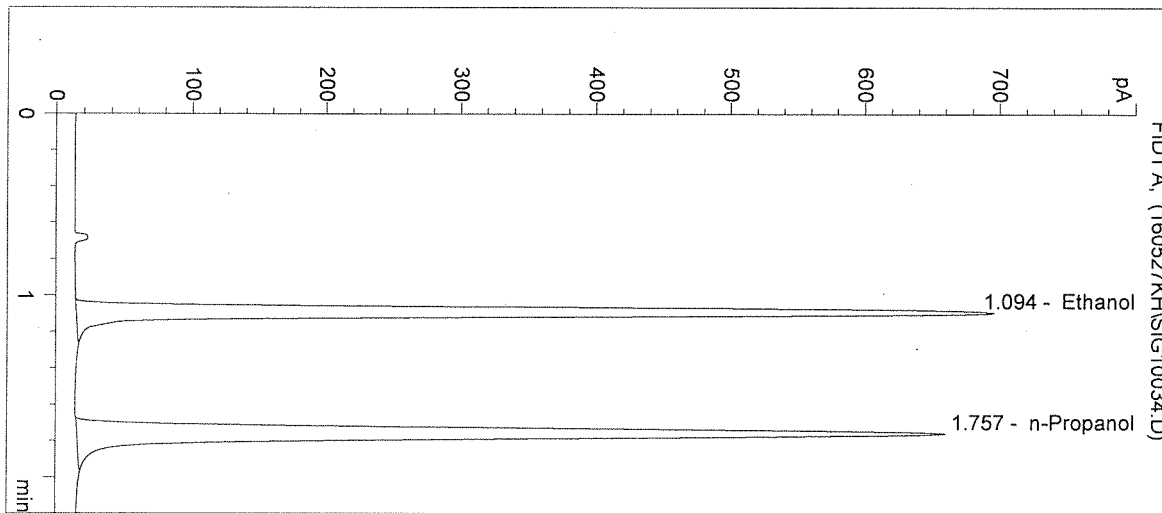
Operator: Katie Harris

Column: DB-ALC1

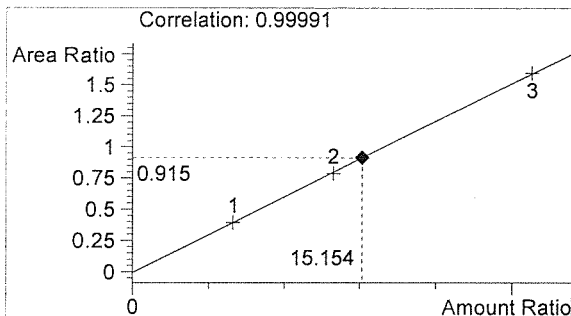
Location: Vial 34

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

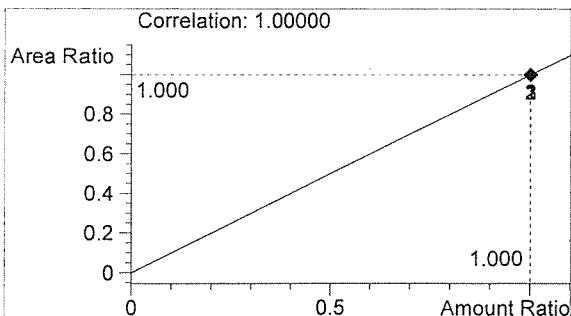
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2347      | 1.094    |
| 2 | n-Propanol | 2566      | 1.757    |



Ethanol 0.182 g/100mL



n-Propanol 0.012 g/100mL

*Handwritten initials*

*Handwritten initials*



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Inj. Date: 5/27/2016 1:15:35 PM

Sample Name: 16020-5

Instrument: HSGC#1

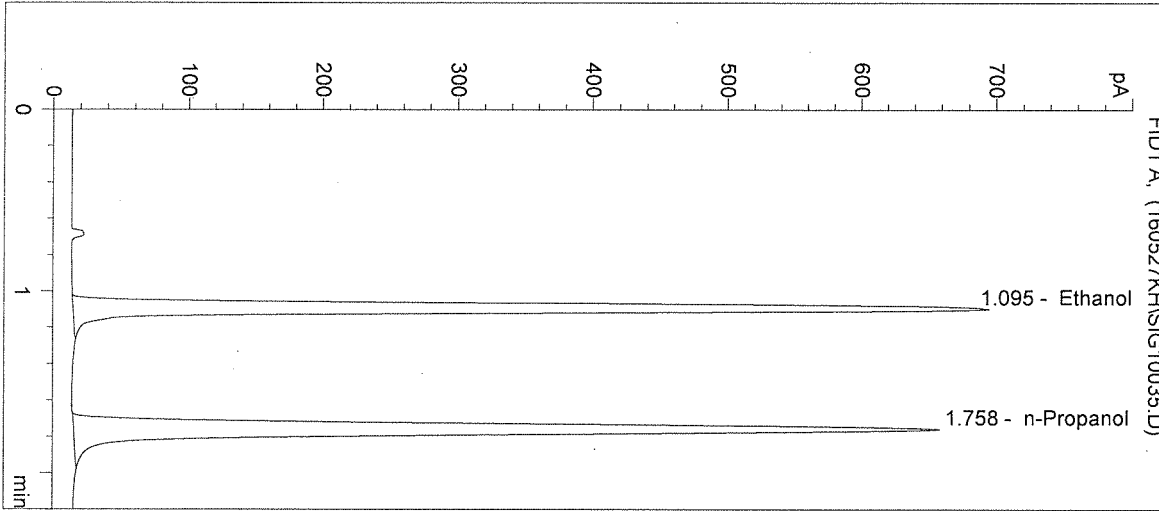
Operator: Katie Harris

Column: DB-ALC1

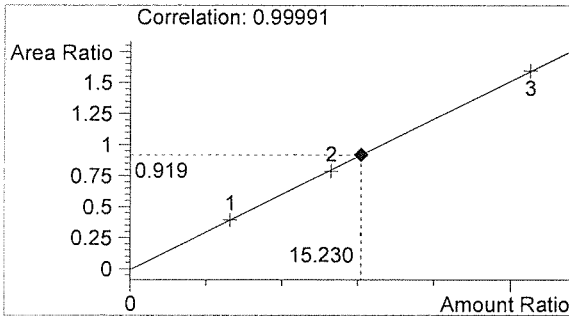
Location: Vial 35

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

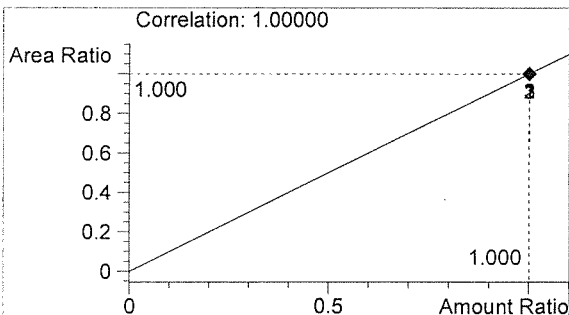
Sample Info:



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 2357      | 1.095    |
| 2 | n-Propanol | 2564      | 1.758    |



Ethanol 0.183 g/100mL



n-Propanol 0.012 g/100mL

*Handwritten signature*

*Handwritten initials*

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Inj. Date: 5/27/2016 1:18:47 PM

Sample Name: 0.10 CTRL

Instrument: HSGC#1

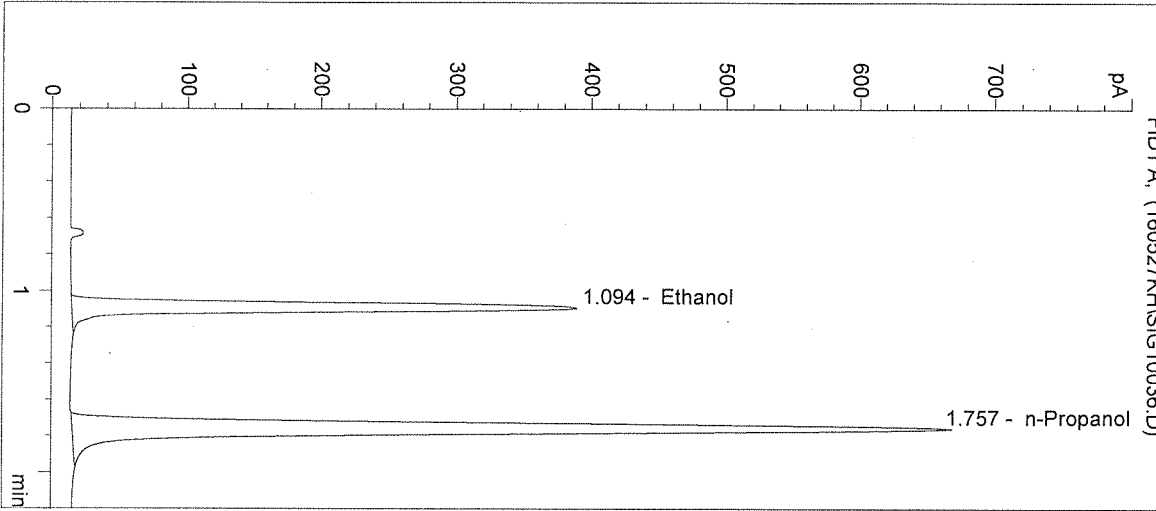
Operator: Katie Harris

Column: DB-ALC1

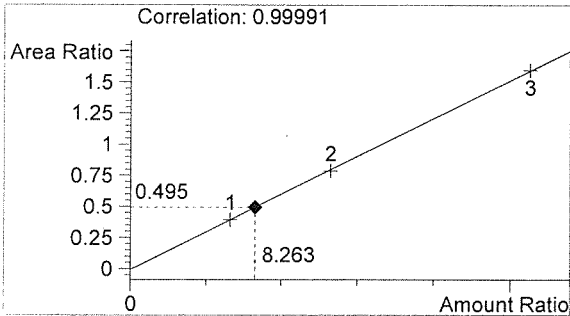
Location: Vial 36

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

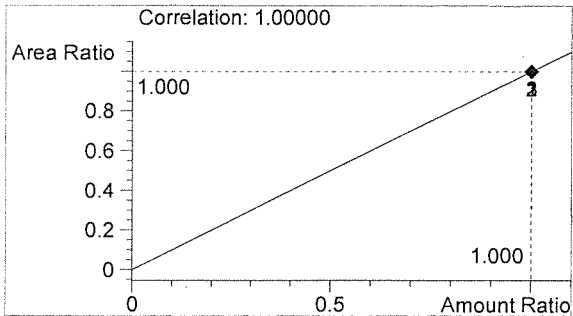
Sample Info: 16020



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 1288      | 1.094    |
| 2 | n-Propanol | 2601      | 1.757    |



Ethanol 0.099 g/100mL



n-Propanol 0.012 g/100mL

*Handwritten signature*

*KH*

Inj. Date: 5/27/2016 1:22:02 PM

Sample Name: NEG CTRL

Instrument: HSGC#1

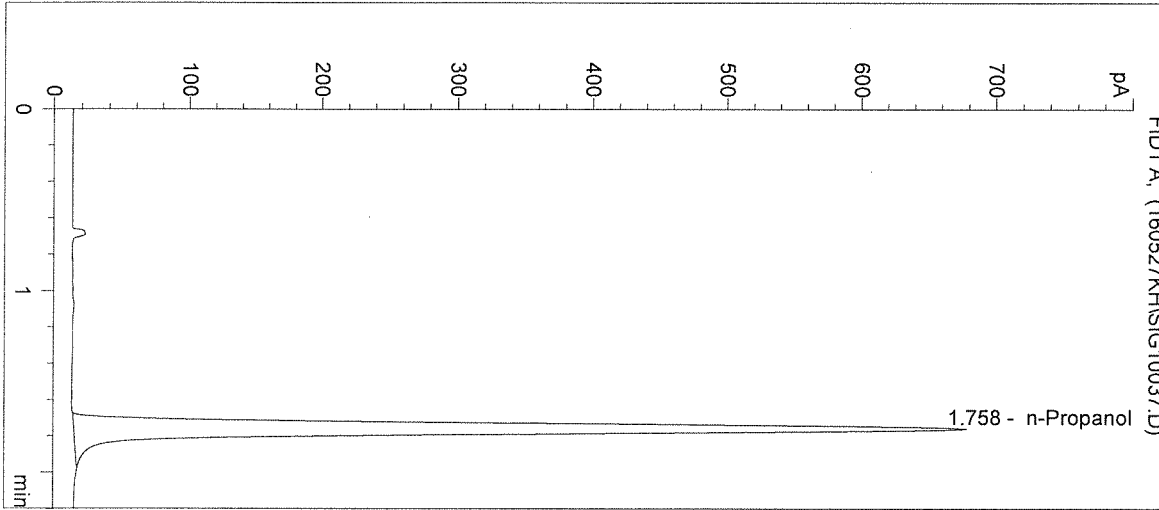
Operator: Katie Harris

Column: DB-ALC1

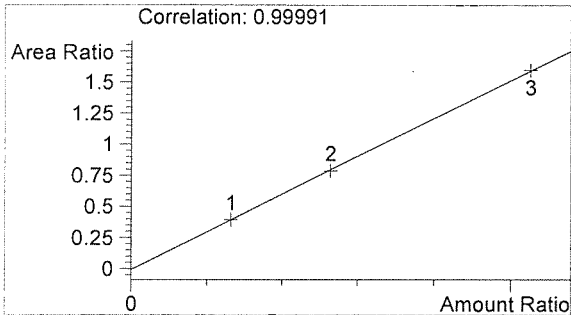
Location: Vial 37

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

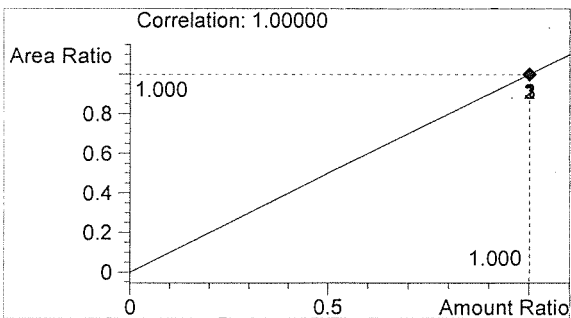
Sample Info: 16020



| # | Compound   | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol    | 0         | 0.000    |
| 2 | n-Propanol | 2644      | 1.758    |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

*Handwritten signature*

*KH*