

**WASHINGTON STATE TOXICOLOGY LABORATORY**

FORENSIC LABORATORY SERVICES BUREAU  
 WASHINGTON STATE PATROL  
 2203 AIRPORT WAY S, SUITE 360  
 SEATTLE, WASHINGTON 98134-2027  
 (206) 262-6100 FAX (206) 262-6145

**SOLUTION CERTIFICATION DATABASE**

Preparation and certification of **0.15** g/210L Quality Assurance solution  
 Batch number **07059** Date prepared: 10/26/2007  
 Preparation: 42.3 mL of absolute ethyl alcohol diluted to 18 Liters with water  
 Concentration of ethanol (g/100mL) measured by gas chromatography:

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal 10	Anal 11	Anal 12	Anal 13	Anal 14	Anal 15	Anal 16
1	0.187	0.188	0.183													
2	0.188	0.190	0.185													
3	0.187	0.194	0.184													
4	0.188	0.190	0.184													
5	0.188	0.189	0.184													
Ctrl	0.100	0.100	0.100													

**Statistics:**  
 Avg. solution concent.: 0.1873 g/100 mL  
 SD: 0.00294  
 Precision CV (%): 1.5692 %

**External Control:**  
 Lot #: A050528 Exp date: <sup>MM</sup>07 / <sup>YYY</sup>2011  
 Target concentration: 0.10 g/100mL

**Equivalent vapor concent.:** 0.1523 g/210L

Analyst	Name	Signature	Date Tested
1	Christie Mitchell	<i>Christie Mitchell</i>	10/26/2007
2	Brianna Peterson	<i>Brianna Peterson</i>	10/29/2007
3	Amanda Black	<i>Amanda Black</i>	10/29/2007
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Prepared by: Christie Mitchell according to the approved protocol. Final review by: MP

## Batch Worksheet Check Off

Please check the data entered into the worksheet is correct and that the date to the right of your name is the date that you tested the solution and then sign the worksheet.

Please initial below to affirm that you have:

- 1 – Initialed and dated your chromatograms
- 2 – Checked your data
- 3 – Checked the date to the right of your name on the worksheet
- 4 – Signed the worksheet.

Initials	Date
Brianne Akins	
Brittany Ball	
Amanda Black AB	10-30-07
Brian Capron	
Rebecca Flaherty	
Ed Formoso	
Christopher Johnston	
Justin Knoy	
Asa Louis	
Estuardo Miranda	
Christie Mitchell CM	10/30/07
Lisa Noble	
Naziha Nuwayhid	
Melissa Pemberton	
Brianna Peterson BP	10/30/07
Sarah Swenson	

# WASHINGTON STATE TOXICOLOGY LABORATORY SIMULATOR SOLUTION DATA ENTRY REVIEW



Reviewer/s: KEN BENTON / ROA GULLBERG Date: 11-19-2007

Location: TOX LAB SEATTLE Solution Batch Number: 07059

	YES	NO
Preparation date precedes all analysis dates:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Data entry corresponds to all chromatograms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All signatures present on Analysis sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Avg. solution concentration correct?:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard deviation correct:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Range correct:	<input type="checkbox"/>	<input type="checkbox"/> N.A.
Equivalent vapor concentration correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
External Control information correct: (lot # and future date)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Complies with accuracy and precision requirements established by the State Toxicologist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Corrections Necessary/ Comments	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Reviewer Signature: [Signature] Date: 11-19-2007

Reviewer Signature: [Signature] Date: 11/19/2007

CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL  
WASHINGTON STATE TOXICOLOGY LABORATORY  
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 07059

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

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the DataMaster breath test instrument.

I possess the following qualifications: BA degree in Chemistry and MFS degree in Forensic Science.

The quality assurance solution, Lot Number 07059, was prepared in the Washington State Toxicology Laboratory on 10/26/2007. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of quality assurance solution. It should not be used for evidential breath tests after 10/26/2008.

Seattle, WA

*Christie Mitchell* 11/15/07  
Christie Mitchell Date  
Forensic Toxicologist

CM/ms  
CMQA



CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 07059

I, Brianna Peterson, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the DataMaster breath test instrument.

I possess the following qualifications: BS degree in Chemistry, MS degree in Forensic Science, Ph.D. degree in Toxicology, and two years of experience in forensic toxicology.

The quality assurance solution, Lot Number 07059, was prepared in the Washington State Toxicology Laboratory on 10/26/2007. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of quality assurance solution. It should not be used for evidential breath tests after 10/26/2008.

Seattle, WA

Brianna Peterson 11/15/07  
Brianna Peterson Date  
Forensic Toxicologist

BP/ms  
BPQA



CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 07059


I, Amanda Black, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the DataMaster breath test instrument.

I possess the following qualifications: BS degrees in Chemistry and Veterinary Science.

The quality assurance solution, Lot Number 07059, was prepared in the Washington State Toxicology Laboratory on 10/26/2007. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of quality assurance solution. It should not be used for evidential breath tests after 10/26/2008.

Seattle, WA

 11-16-08  
Amanda Black Date  
Forensic Toxicologist

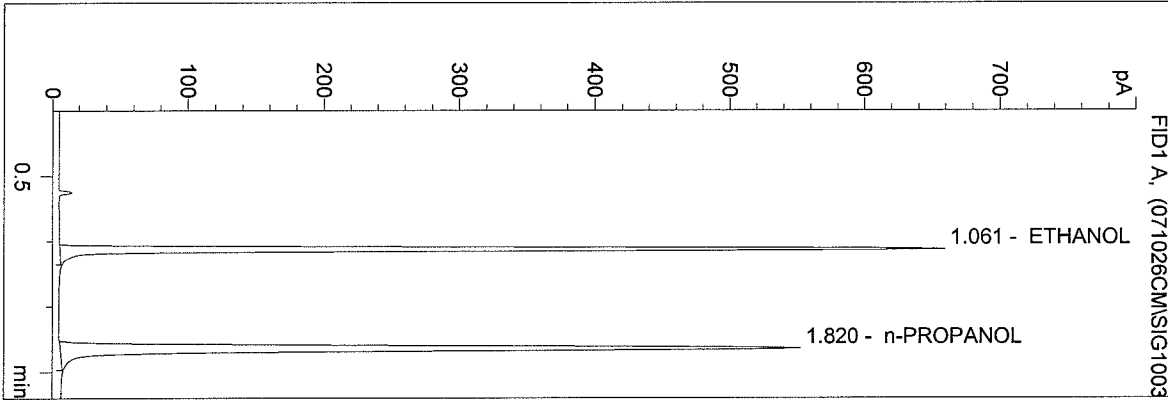
AB/ms  
ABQA



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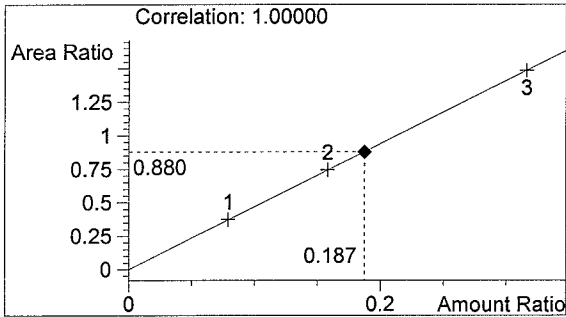
QA 07059-1  
 Christie Mitchell

vial # 32

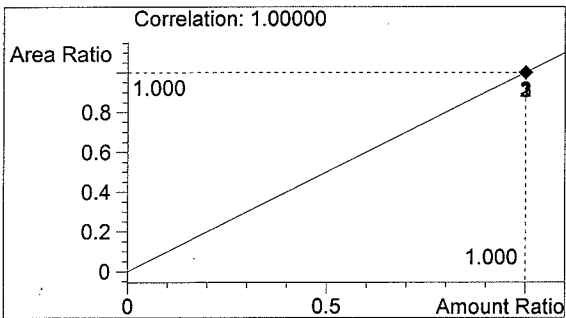


#	Compound	Area	RT
1	ETHANOL	1348	1.061
2	n-PROPANOL	1533	1.820

Totals:



0.187 g/100ml



1.000 g/100ml

CM  
 10/30/07

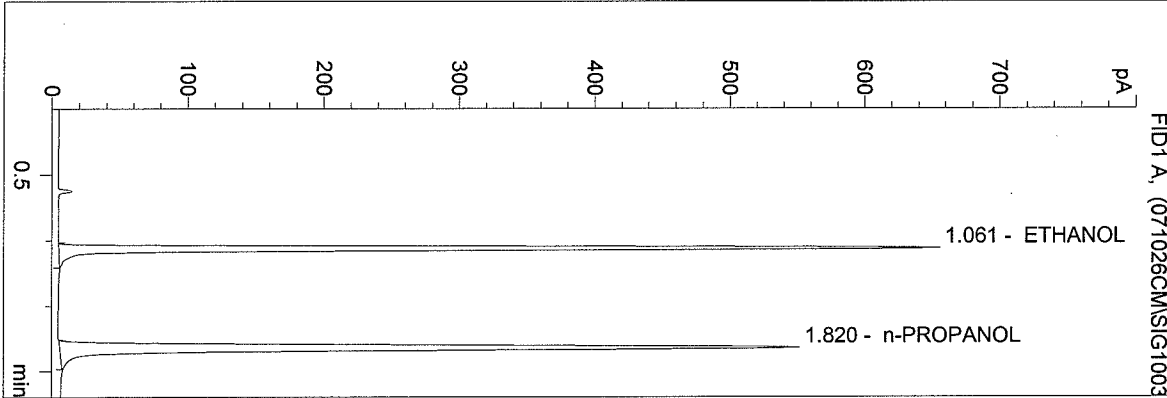
Calibration and controls in QA 07056

CM  
 10/26/07

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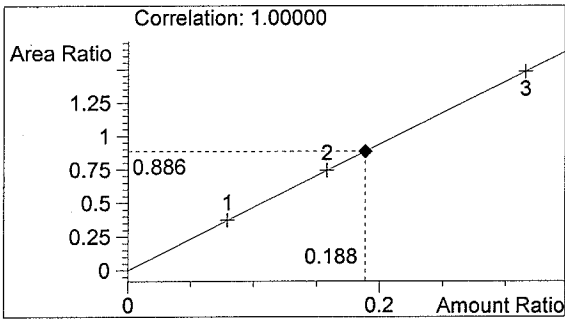
QA 07059-2  
 Christie Mitchell

vial # 33



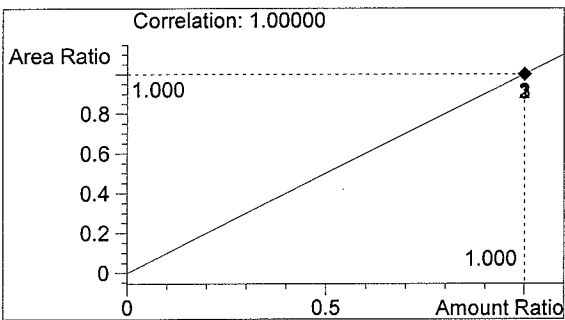
#	Compound	Area	RT
1	ETHANOL	1363	1.061
2	n-PROPANOL	1539	1.820

Totals:



ETHANOL

0.188 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*  
 10/30/07

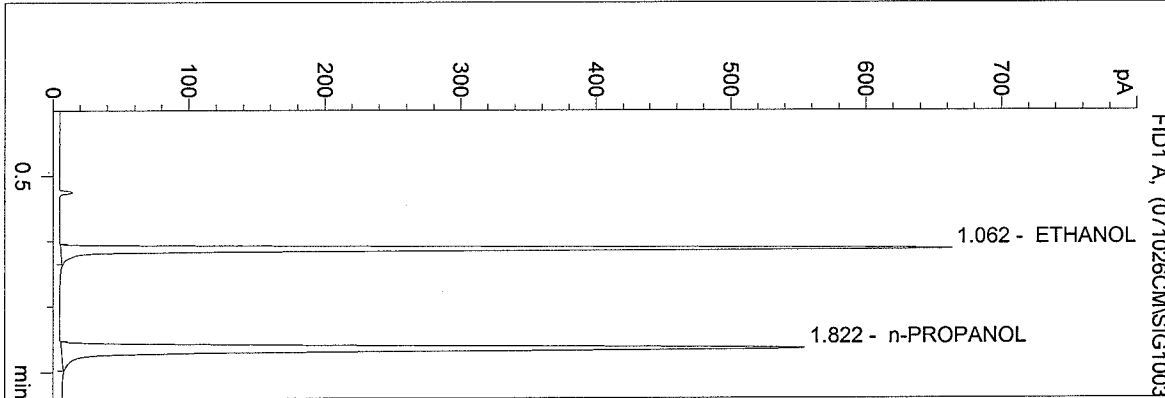


WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 3  
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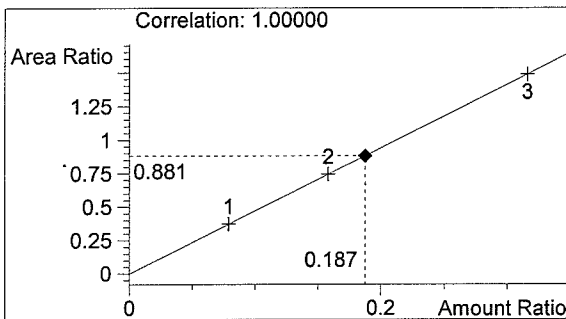
QA 07059-3  
 Christie Mitchell

vial # 34



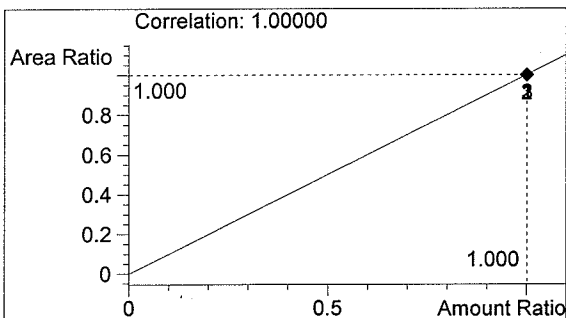
#	Compound	Area	RT
1	ETHANOL	1356	1.062
2	n-PROPANOL	1539	1.822

Totals:



ETHANOL

0.187 g/100ml



n-PROPANOL

1.000 g/100ml

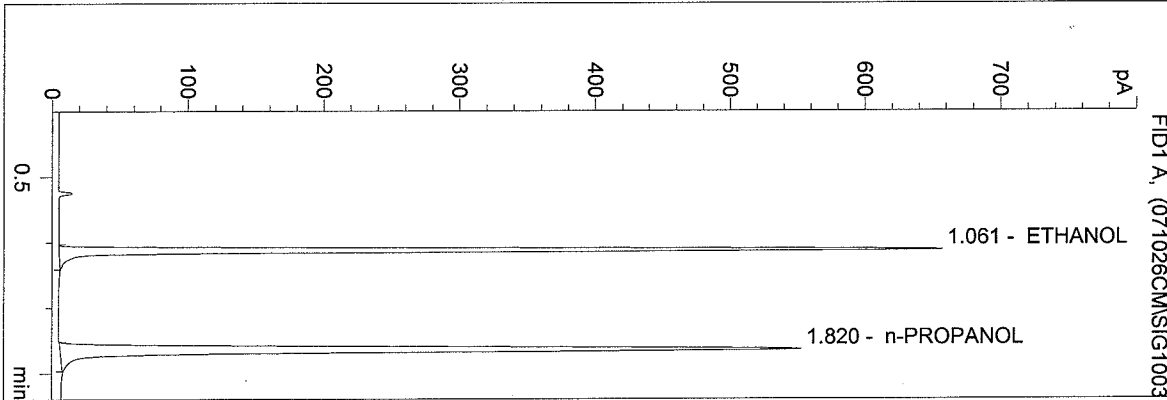
CM  
 10/30/07

WASHINGTON STATE TOXICOLOGY LABORATORY

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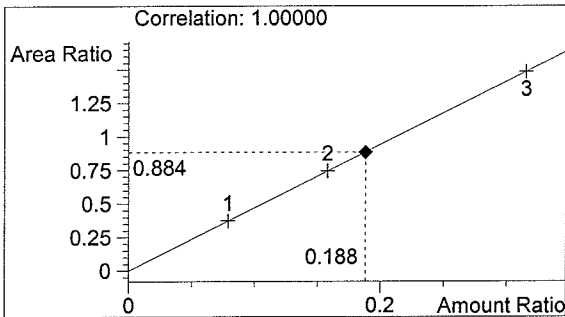
QA 07059-4  
 Christie Mitchell

vial # 35



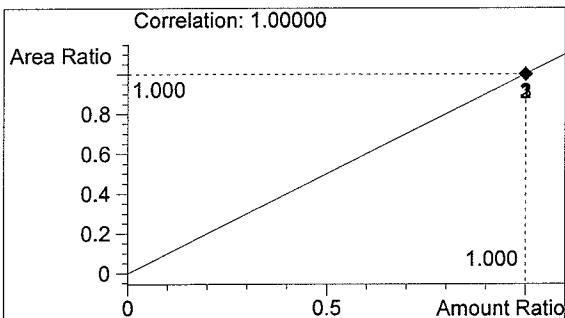
#	Compound	Area	RT
1	ETHANOL	1361	1.061
2	n-PROPANOL	1538	1.820

Totals:



ETHANOL

0.188 g/100ml



n-PROPANOL

1.000 g/100ml

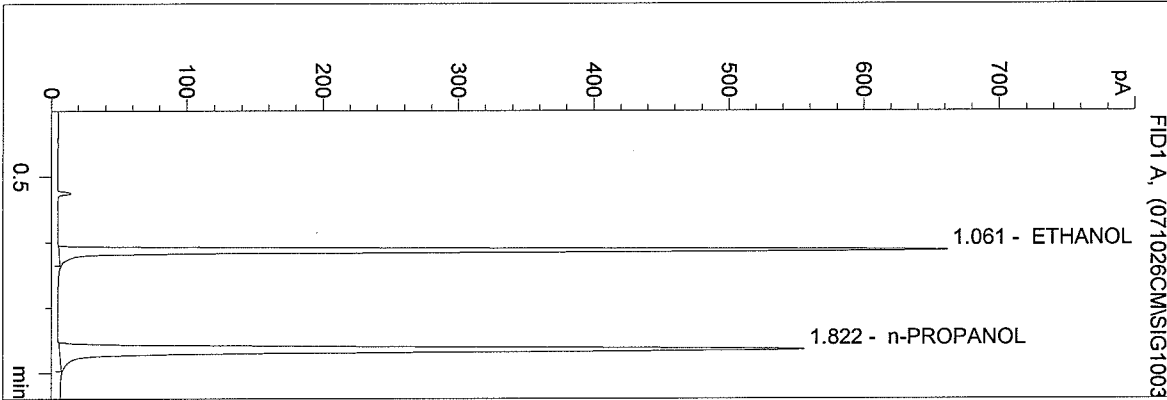
*CM*  
 10/30/07

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 3  
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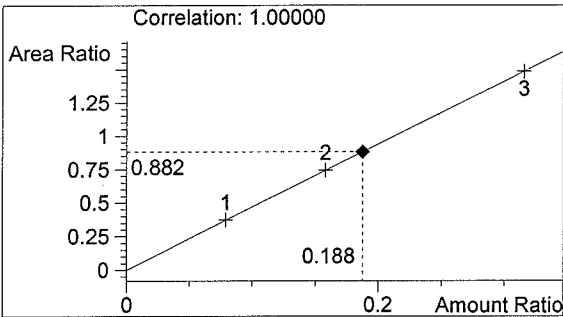
QA 07059-5  
 Christie Mitchell

vial # 36



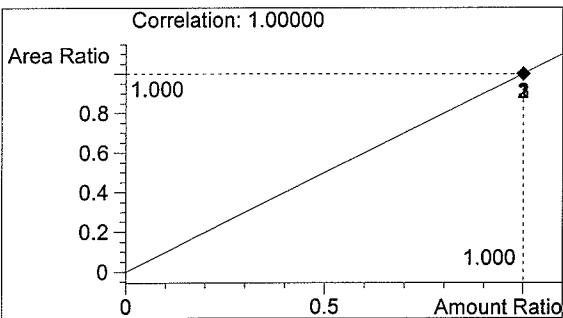
#	Compound	Area	RT
1	ETHANOL	1362	1.061
2	n-PROPANOL	1544	1.822

Totals:



ETHANOL

0.188 g/100ml



n-PROPANOL

1.000 g/100ml

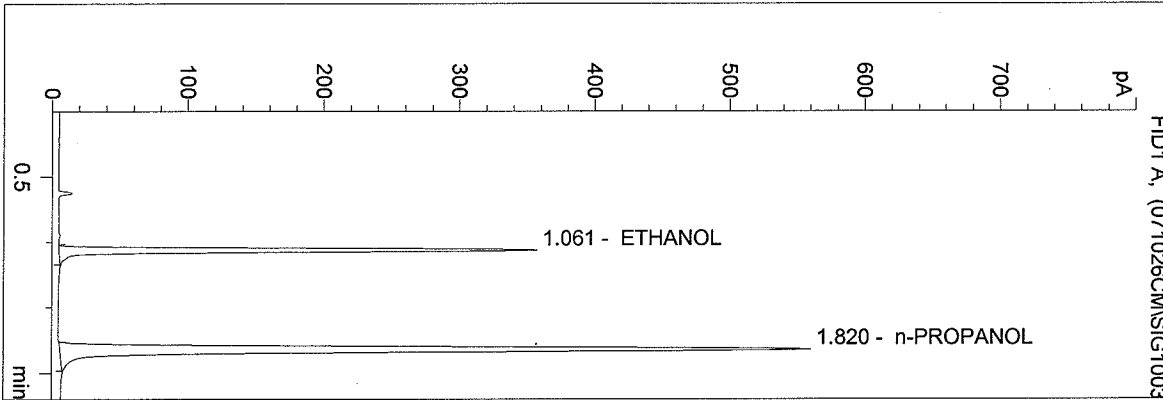
*CM*  
 10/30/07

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 3  
 db-alc2

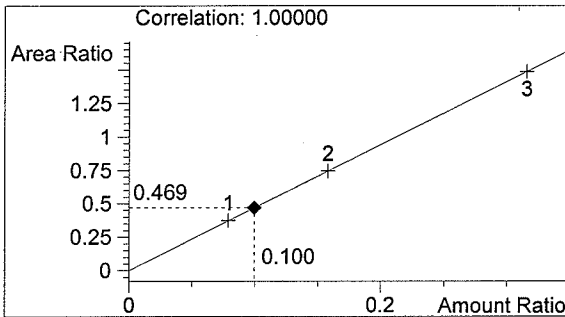
0.10 CONTROL-CM  
 Christie Mitchell

vial # 37

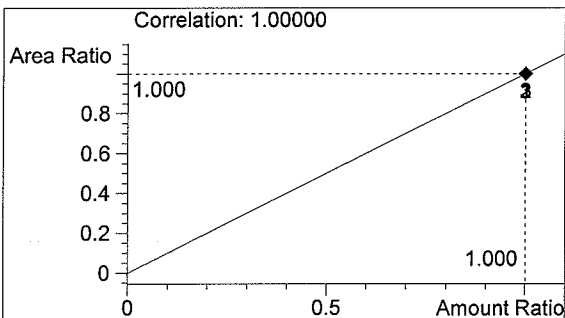


#	Compound	Area	RT
1	ETHANOL	731	1.061
2	n-PROPANOL	1559	1.820

Totals:



0.100 g/100ml

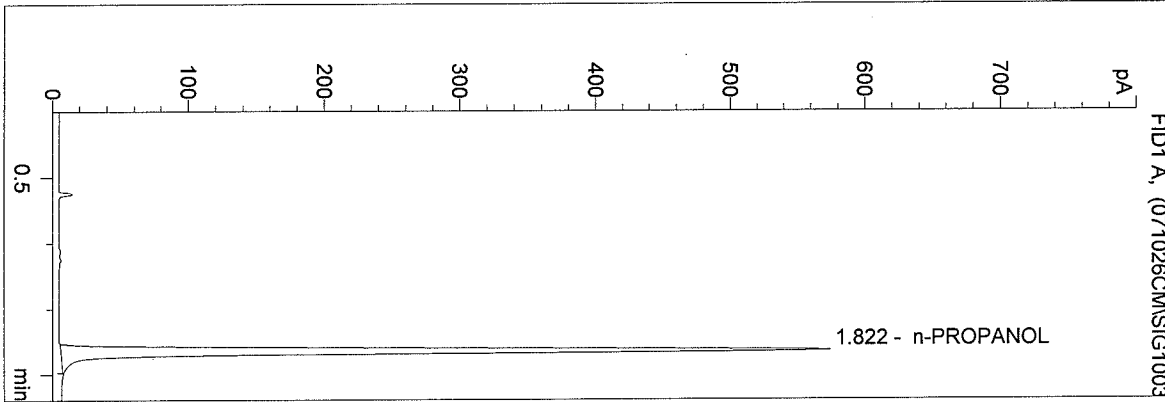


1.000 g/100ml

CM  
 10/30/07

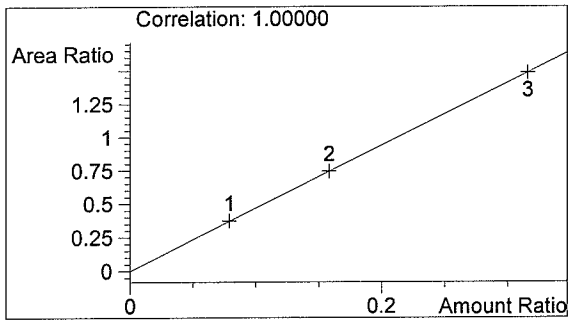
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 Instrument 3  
 db-alc2

BLANK  
 Christie Mitchell  
 vial # 38



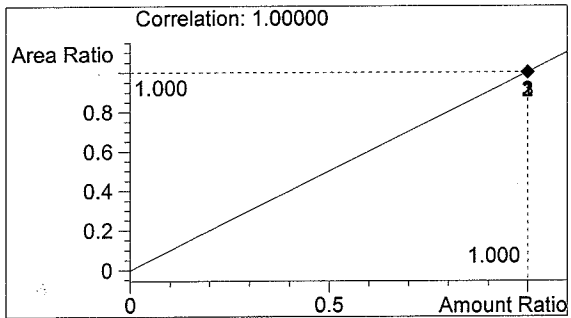
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1600	1.822

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

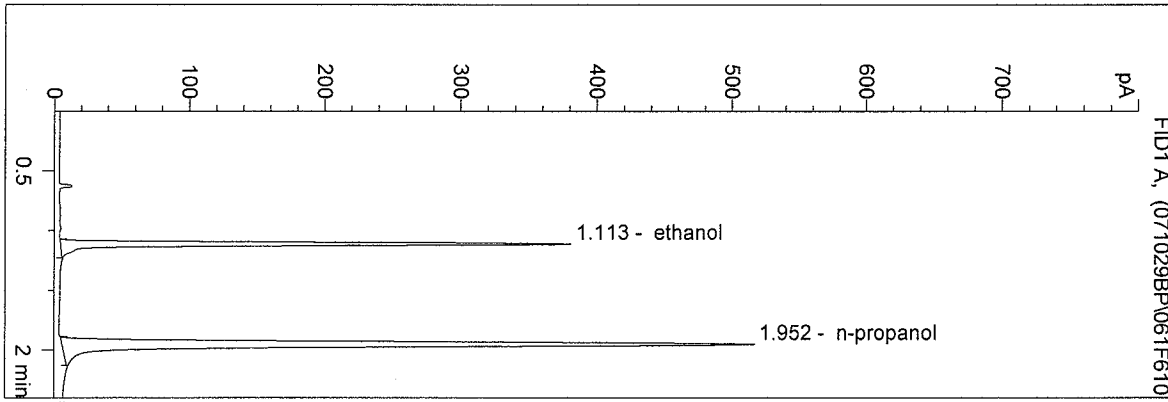
1.000 g/100ml

*CM*  
 10/30/07

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 Instrument 5  
 DB-ALC2

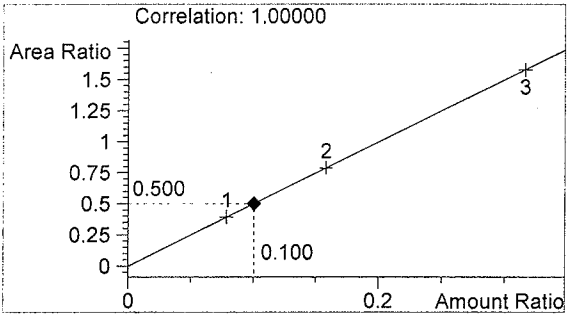
0.10 CTRL BP  
 BRIANNA PETERSON

vial # 61

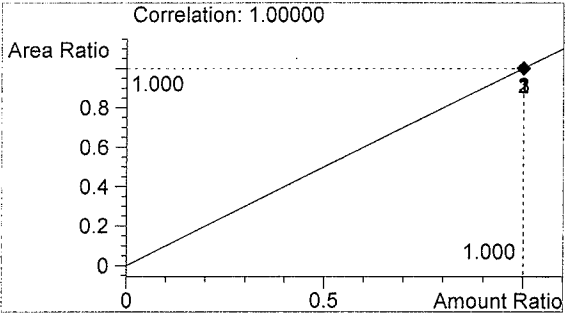


#	Compound	Area	RT
1	ethanol	766	1.113
2	n-propanol	1532	1.952

Totals:



ethanol 0.100 g/100ml



n-propanol 1.000 g/100ml

BP  
 10-30-07

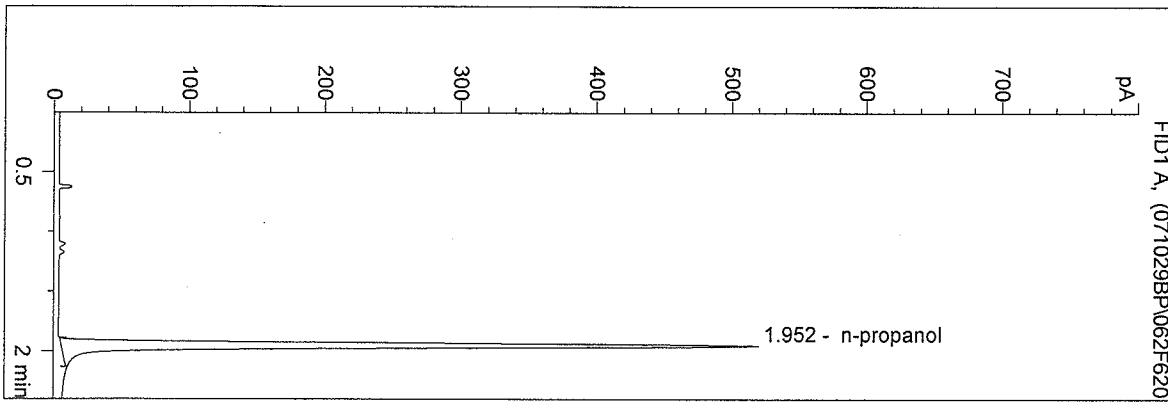
CALIBRATION DATA WITH  
 0708356

BP

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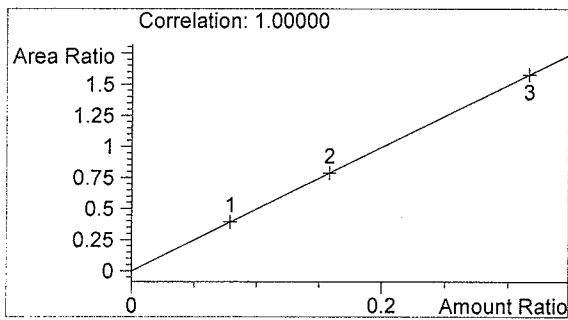
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 BRIANNA PETERSON

vial # 62

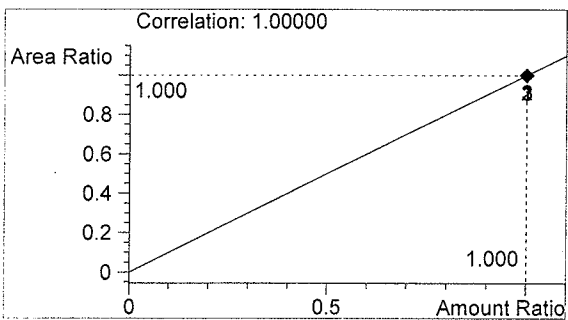


#	Compound	Area	RT
1	ethanol	0	0.000
2	n-propanol	1545	1.952

Totals:



ethanol 0.000 g/100ml



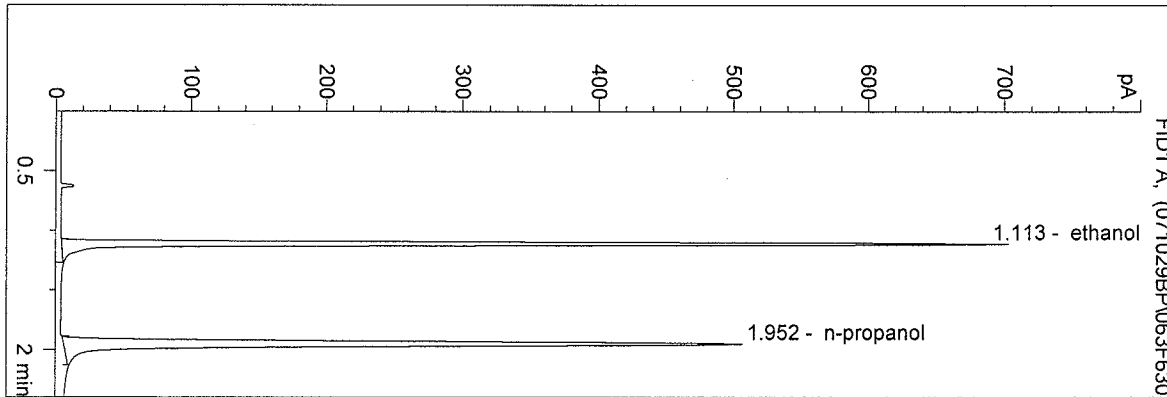
n-propanol 1.000 g/100ml

*BP*  
*10-30-07*

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 Instrument 5  
 DB-ALC2

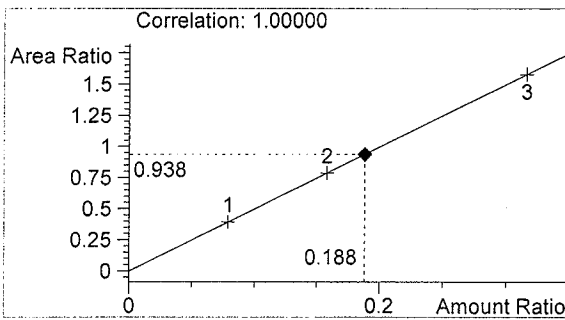
QA 07059-1  
 BRIANNA PETERSON

vial # 63

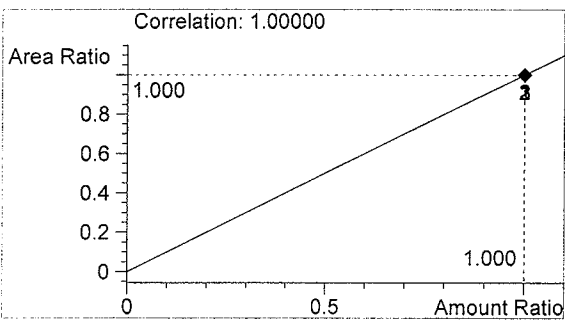


#	Compound	Area	RT
1	ethanol	1411	1.113
2	n-propanol	1505	1.952

Totals:



ethanol 0.188 g/100ml



n-propanol 1.000 g/100ml

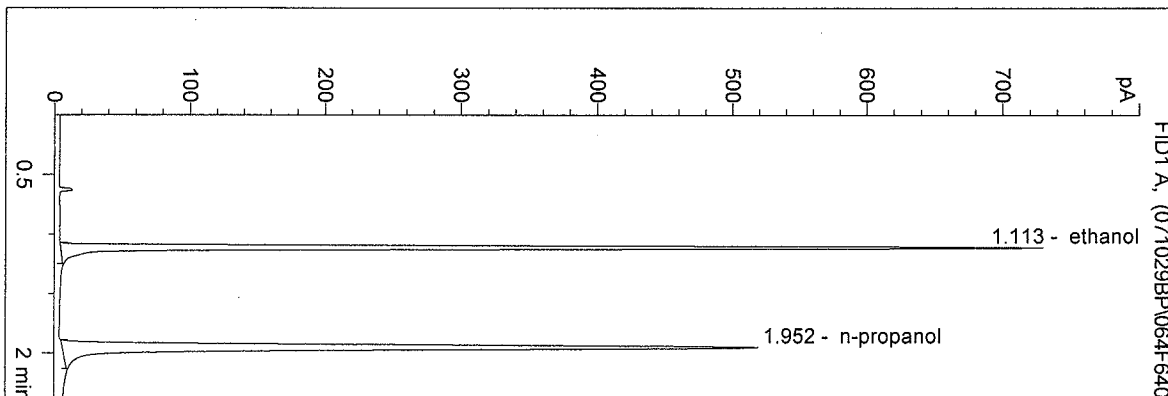
*BP*  
 10-30-07



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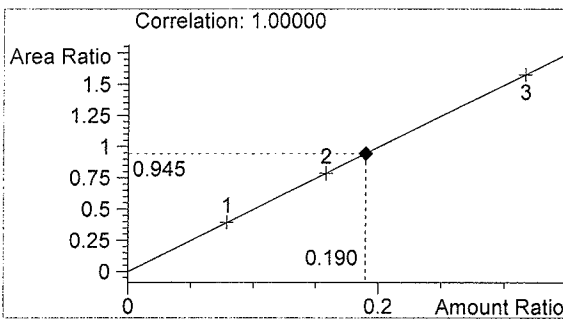
QA 07059-2  
 BRIANNA PETERSON

vial # 64

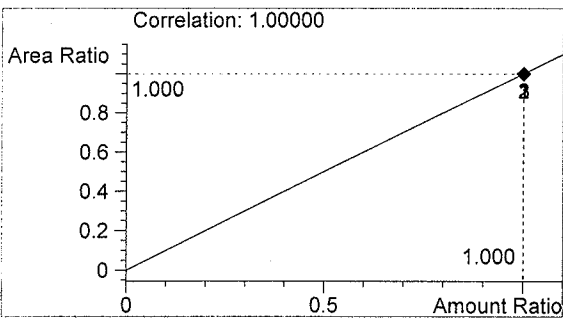


#	Compound	Area	RT
1	ethanol	1461	1.113
2	n-propanol	1545	1.952

Totals:



ethanol 0.190 g/100ml



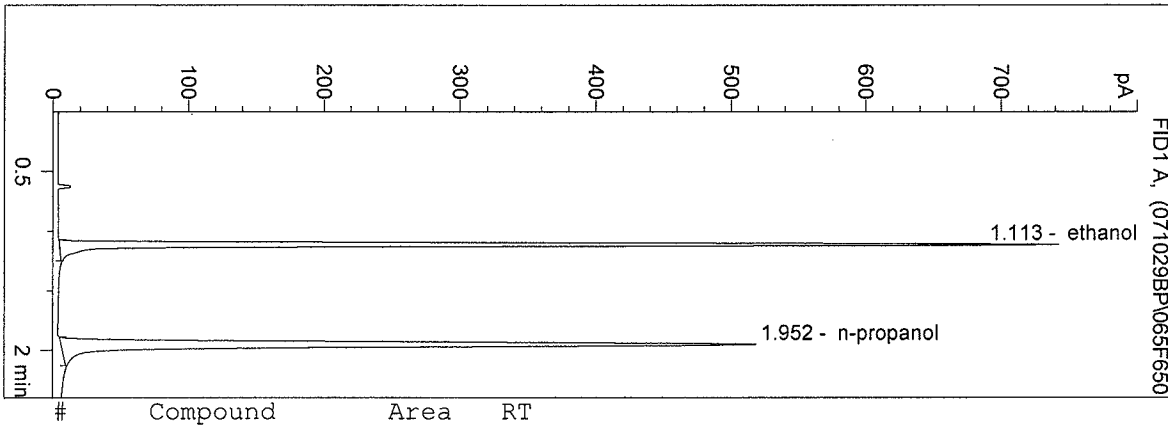
n-propanol 1.000 g/100ml

BP  
 10-30-07

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 Instrument 5  
 DB-ALC2

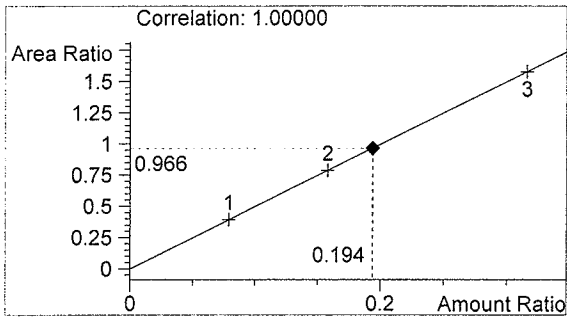
QA 07059-3  
 BRIANNA PETERSON

vial # 65

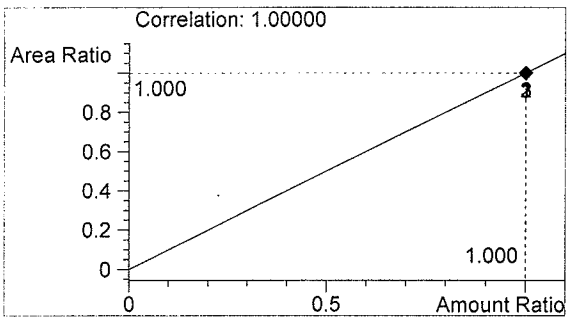


#	Compound	Area	RT
1	ethanol	1489	1.113
2	n-propanol	1541	1.952

Totals:



ethanol 0.194 g/100ml



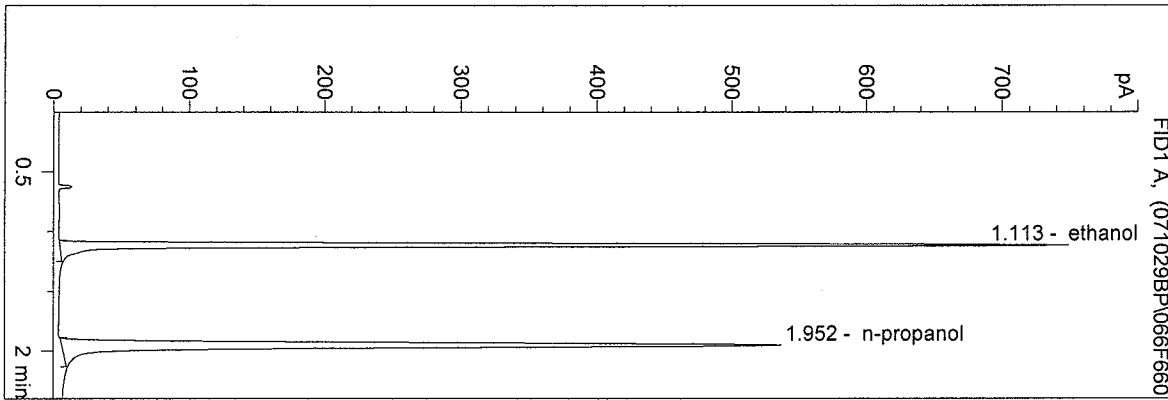
n-propanol 1.000 g/100ml

BP  
 10-30-07

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 Instrument 5  
 DB-ALC2

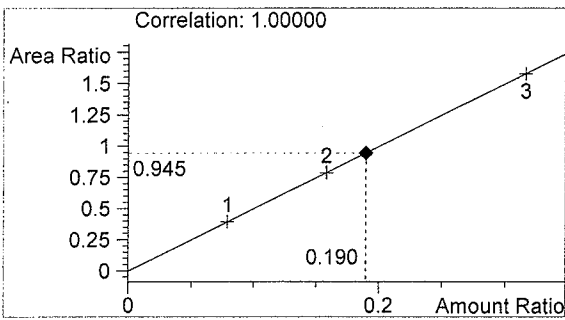
QA 07059-4  
 BRIANNA PETERSON

vial # 66

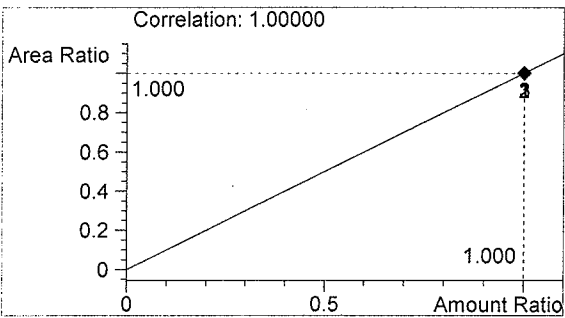


#	Compound	Area	RT
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2	n-propanol	1586	1.952

Totals:



ethanol 0.190 g/100ml



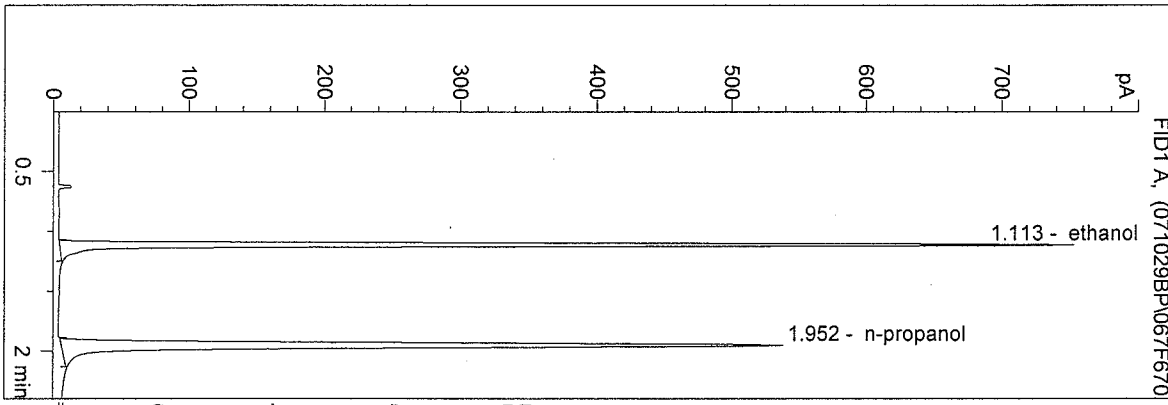
n-propanol 1.000 g/100ml

BP  
 10-30-07

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 Instrument 5  
 DB-ALC2

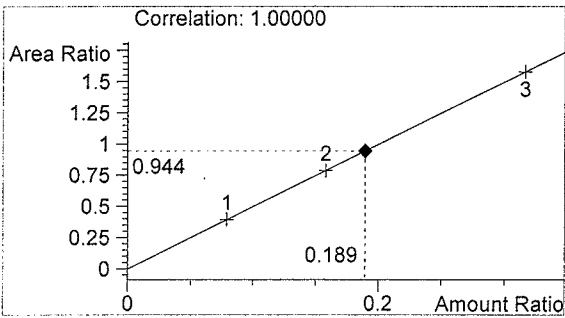
QA 07059-5  
 BRIANNA PETERSON

vial # 67

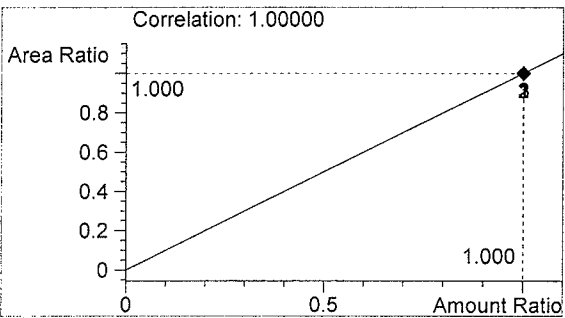


#	Compound	Area	RT
1	ethanol	1506	1.113
2	n-propanol	1595	1.952

Totals:



ethanol 0.189 g/100ml



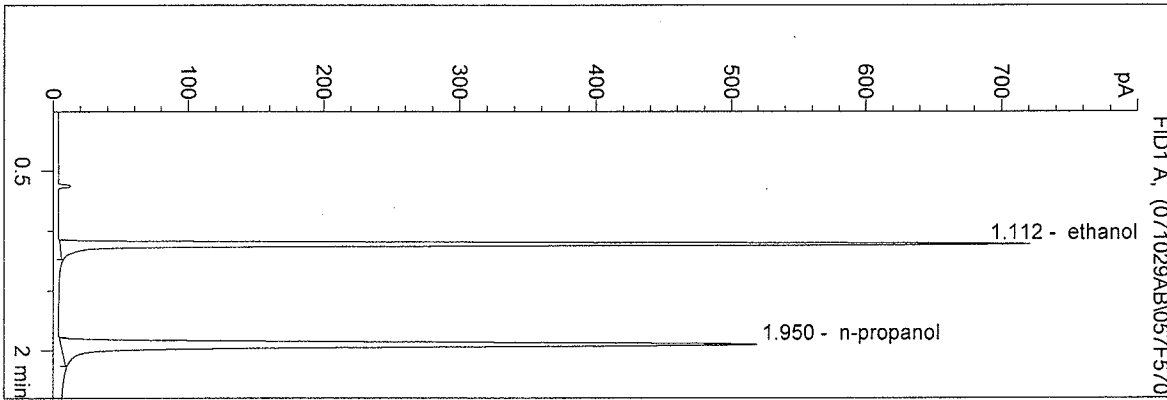
n-propanol 1.000 g/100ml

*BP*  
 10-30-07

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 DB-ALC2

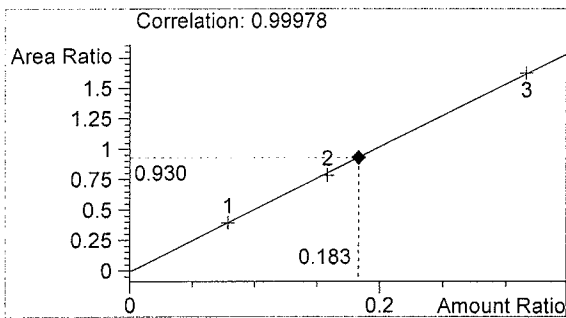
QA 07059-1  
 A. Black

vial # 57

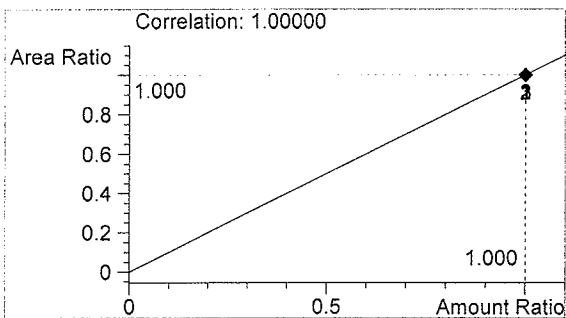


#	Compound	Area	RT
1	ethanol	1438	1.112
2	n-propanol	1545	1.950

Totals:



ethanol 0.183 g/100ml



n-propanol 1.000 g/100ml

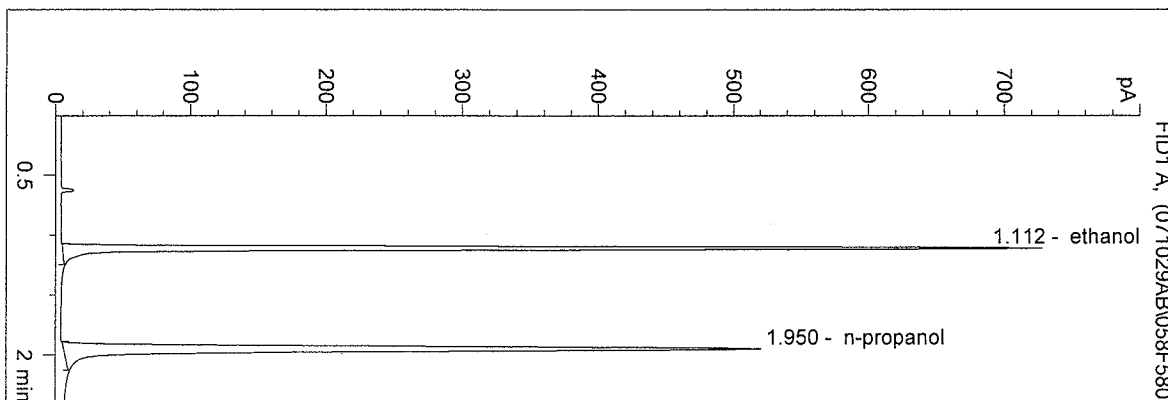
QB  
 10-30-07

CALIBRATION FILED WITH ST 0708388

D:\HPCHEM\1\METHODS\BLDALCO2.M  
 10/29/2007 9:09:18 PM  
 Instrument 5  
 DB-ALC2

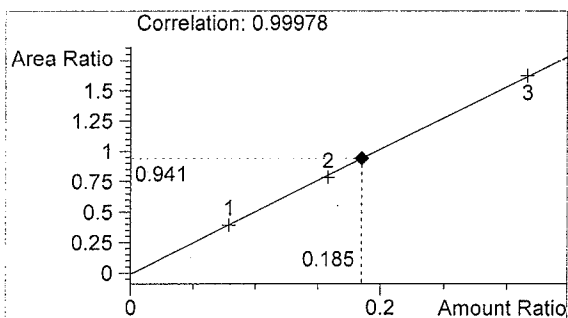
QA 07059-2  
 A. Black

vial # 58

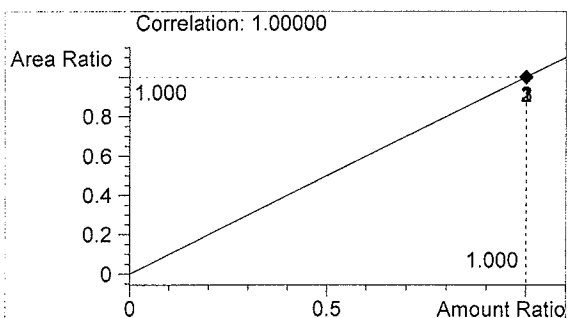


#	Compound	Area	RT
1	ethanol	1455	1.112
2	n-propanol	1546	1.950

Totals:



ethanol 0.185 g/100ml



n-propanol 1.000 g/100ml

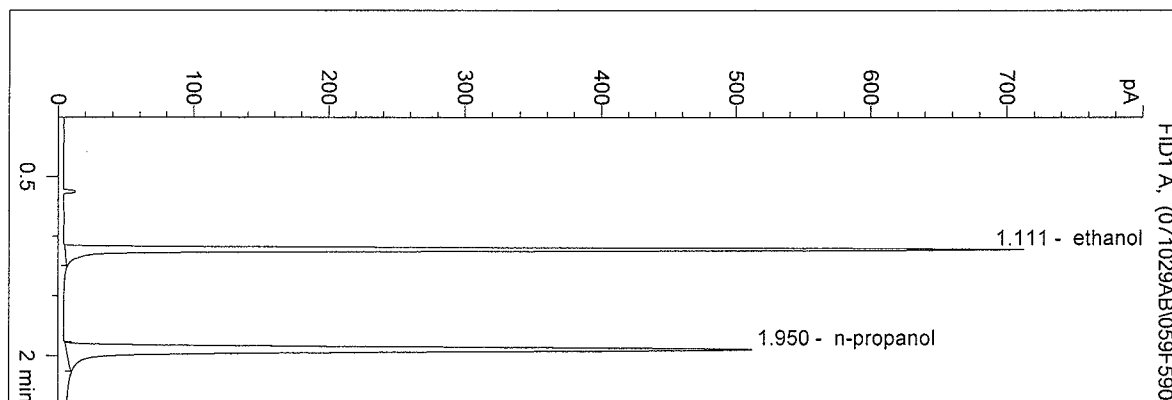
OB  
 10-30-07

D:\HPCHEM\1\METHODS\BLDALCO2.M  
 10/29/2007 9:12:53 PM  
 Instrument 5  
 DB-ALC2

QA 07059-3

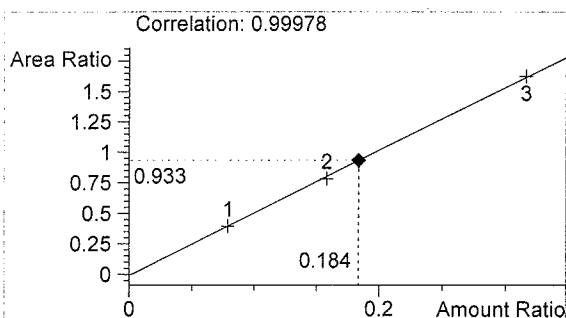
A. Black

vial # 59

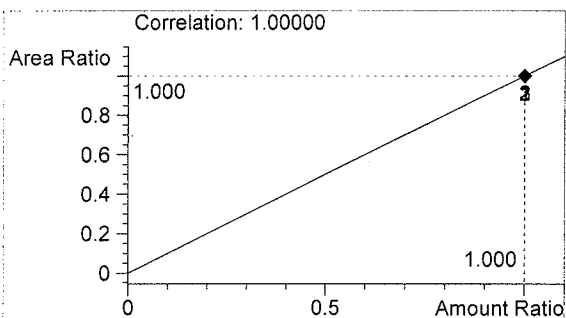


#	Compound	Area	RT
1	ethanol	1423	1.111
2	n-propanol	1524	1.950

Totals:



ethanol 0.184 g/100ml



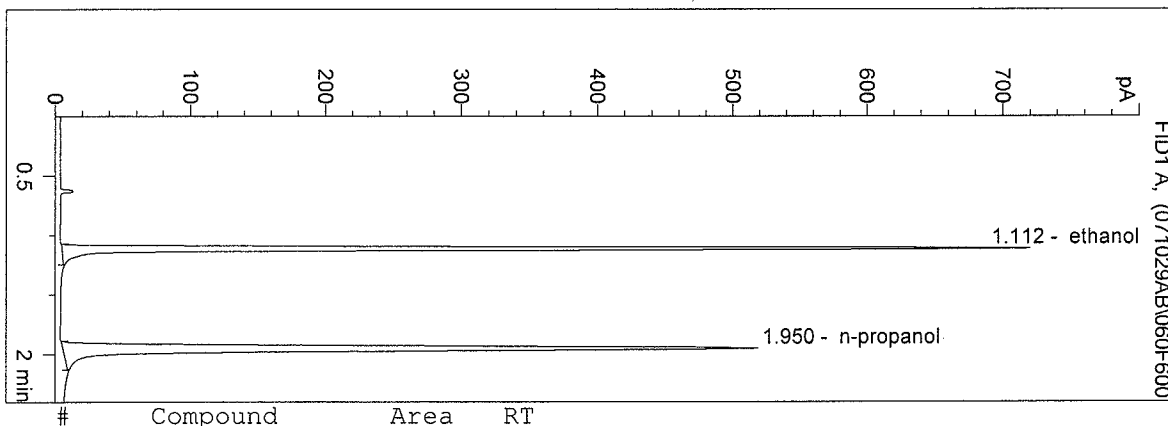
n-propanol 1.000 g/100ml

AB  
 10-30-07

D:\HPCHEM\1\METHODS\BLDALCO2.M  
 10/29/2007 9:17:44 PM  
 Instrument 5  
 DB-ALC2

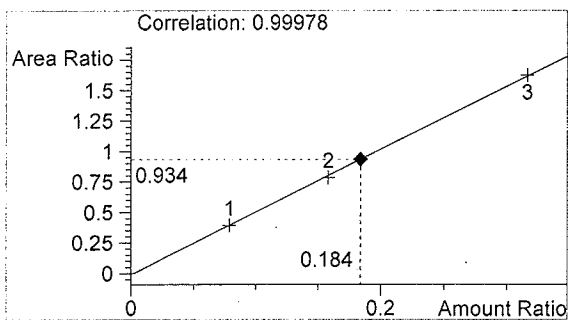
QA 07059-4  
 A. Black

vial # 60

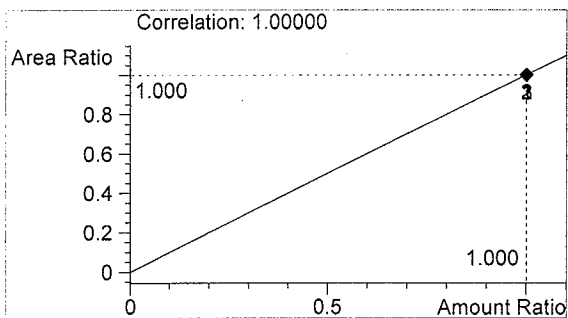


#	Compound	Area	RT
1	ethanol	1441	1.112
2	n-propanol	1544	1.950

Totals:



ethanol 0.184 g/100ml



n-propanol 1.000 g/100ml

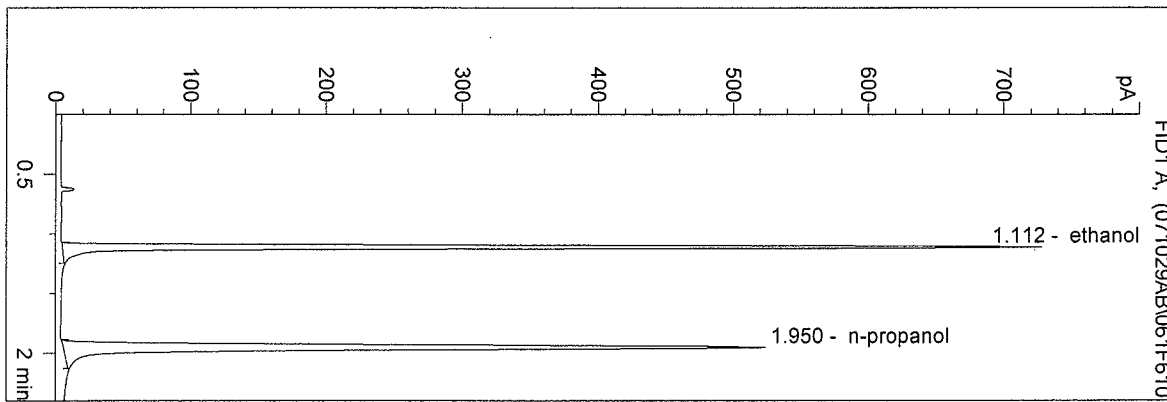
AB  
 10-30-07



D:\HPCHEM\1\METHODS\BLDALCO2.M  
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 Instrument 5  
 DB-ALC2

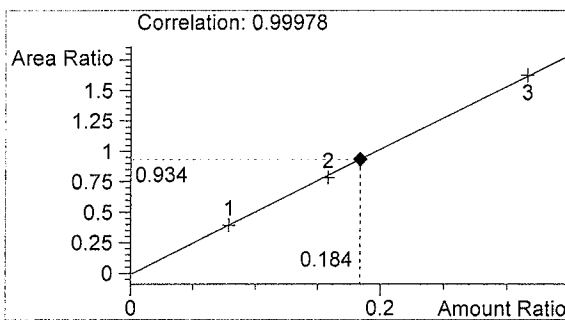
QA 07059-5  
 A. Black

vial # 61

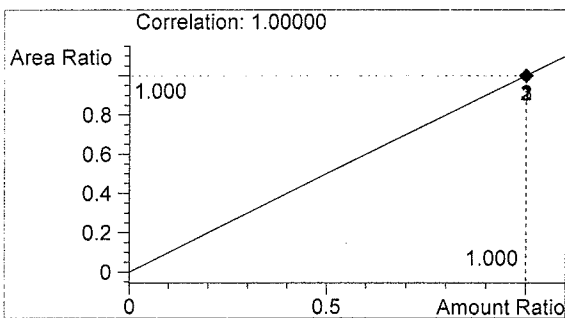


#	Compound	Area	RT
1	ethanol	1456	1.112
2	n-propanol	1558	1.950

Totals:



ethanol 0.184 g/100ml



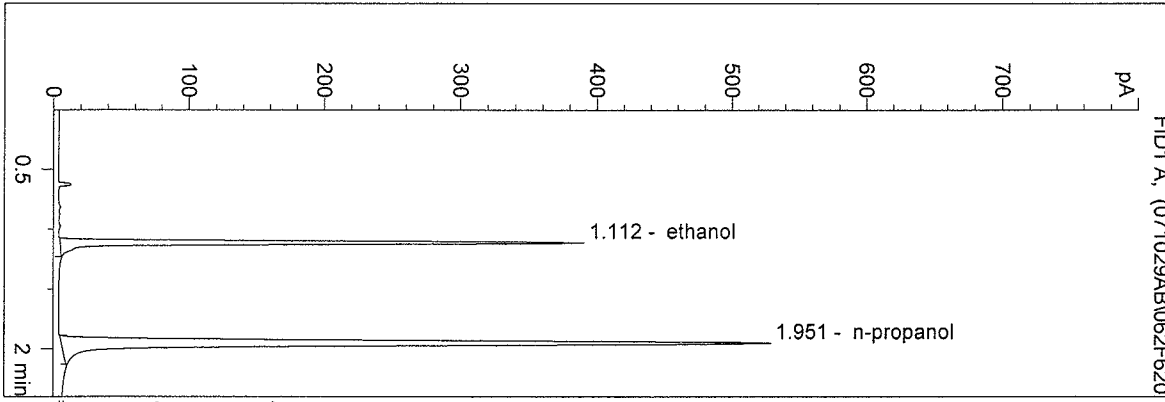
n-propanol 1.000 g/100ml

OS  
 10-30-07

D:\HPCHEM\1\METHODS\BLDALCO2.M  
 10/29/2007 9:24:57 PM  
 Instrument 5  
 DB-ALC2

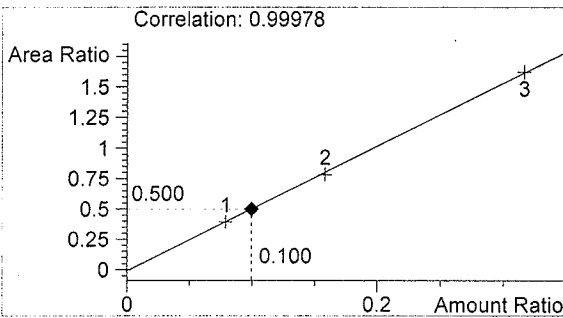
0.10 AB Control  
 A. Black

vial # 62

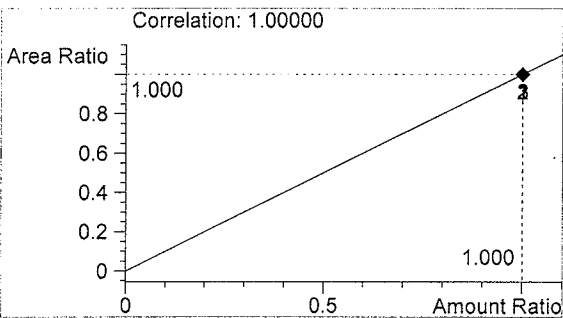


#	Compound	Area	RT
1	ethanol	787	1.112
2	n-propanol	1573	1.951

Totals:



ethanol 0.100 g/100ml



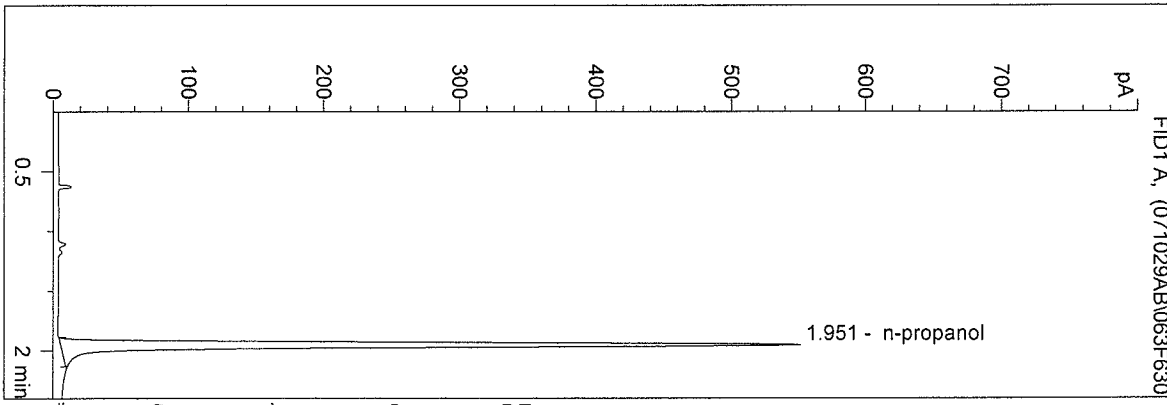
n-propanol 1.000 g/100ml

OB  
 10-30-07

D:\HPCHEM\1\METHODS\BLDALCO2.M  
 10/29/2007 9:29:49 PM  
 Instrument 5  
 DB-ALC2

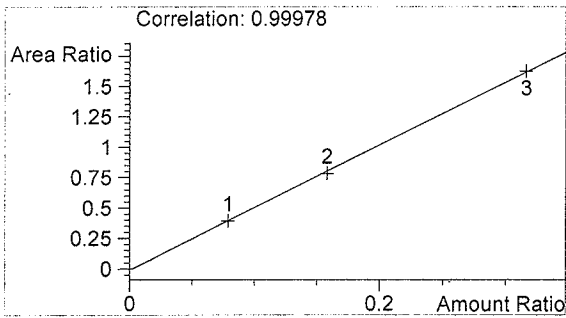
BLANK  
 A. Black

vial # 63

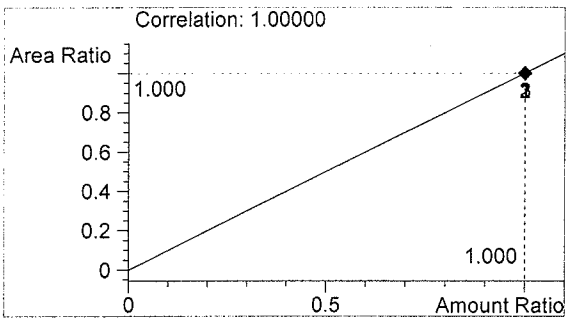


#	Compound	Area	RT
1	ethanol	0	0.000
2	n-propanol	1641	1.951

Totals:



ethanol 0.000 g/100ml



n-propanol 1.000 g/100ml

*OB*  
 10-30-07