

**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

**QUALITY ASSURANCE SOLUTION DATABASE**

Preparation and certification of **0.08** g/210L Quality Assurance Solution

Batch number **08037**

Date prepared: 07/31/2008

Preparation: **22.2** mL of absolute ethyl alcohol diluted to **18** Liters with water

Concentration of ethanol (g/100mL) measured by gas chromatography:

	Analyst 1	Analyst 2	Analyst 3
1	0.098	0.097	0.100
2	0.098	0.098	0.100
3	0.098	0.101	0.100
4	0.098	0.099	0.100
5	0.099	0.100	0.102
Ctrl	0.099	0.099	0.100

**Statistics:**  
 Avg. solution concent.: 0.0992 g/100 mL  
 SD: 0.00137  
 Range (3.8XSD): 0.0940 to 0.1044  
 Precision CV (%): 1.3843 %

**External Control:**  
 Lot #: A056938 Exp date: MM / YYYY 04 / 2012  
 Target concentration: 0.10 g/100mL

**Equivalent vapor concent.:** 0.0807 g/210L

<u>Analyst</u>	<u>Name</u>	<u>Signature</u>	<u>Date Tested</u>
1	Brianna Peterson	<i>Brianna Peterson</i>	07/31/2008
2	Justin L Knoy	<i>Justin L Knoy</i>	08/01/2008
3	Christie Mitchell	<i>Christie Mitchell</i>	08/06/2008

Prepared by: Brianna Peterson according to the approved protocol.

Final review by: *[Signature]* 7/1/08

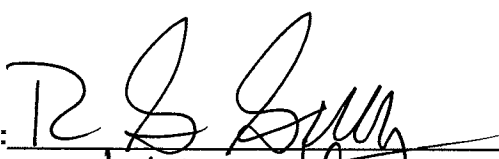
**WASHINGTON STATE TOXICOLOGY LABORATORY  
SIMULATOR SOLUTION DATA ENTRY REVIEW**

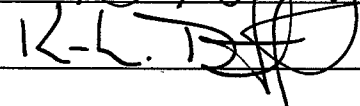


Reviewer/s: KEN DENTON / ROD GULLBERG Date: 9-4-2008

Location: TOX LAB Solution Batch Number: 08037

	YES	NO	N/A
Preparation date precedes all analysis dates:	<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 Analysis sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avg. 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"/>
Range correct if applicable:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equivalent vapor concentration correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blank Chromatograms included in file:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Control information correct: (lot # present and future date)	<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"/>
CV% Correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reviewed for outliers per policy and none found?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			

Reviewer Signature:  Date: 9-4-08

Reviewer Signature:  Date: 9-4-2008

### Solution Certificate Review Checkoff

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

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 certificate
- 3 – Signed the certificate

Initials	Date
Amanda Black	
Asa Louis	
Brian Capron	
Brianna Peterson <i>BP</i>	<i>9/3/08</i>
Brianne Akins	
Brittany Ball	
Christie Mitchell <i>CM</i>	<i>9/3/08</i>
Christopher Johnston	
Erin Kolbrich	
Estuardo Miranda	
Gwynyth Scherperel	
Justin Knoy <i>JK</i>	<i>9/3/08</i>
Lisa Noble	
Melissa Pemberton	
Naziha Nuwayhid	
Rebecca Flaherty	
Sarah Swenson	

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 08037

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 three years of experience in forensic toxicology.

The quality assurance solution, Lot Number 08037, was prepared in the Washington State Toxicology Laboratory on 7/31/2008. 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 7/31/2009.

Seattle, WA

*Brianna Peterson* 9/3/08  
Brianna Peterson Date  
Forensic Toxicologist

BP/ik  
BPQA



CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 08037

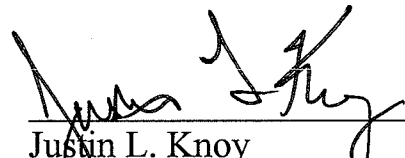
I, Justin L. Knoy, do certify under penalty of perjury that:

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 Biology, and MS degree in Forensic Science.

The quality assurance solution, Lot Number 08037, was prepared in the Washington State Toxicology Laboratory on 7/31/2008. 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 7/31/2009.

Seattle, WA

 9.3.08  
Justin L. Knoy Date  
Forensic Toxicologist

JLK/ik  
JKQA

CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL  
WASHINGTON STATE TOXICOLOGY LABORATORY  
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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 08037

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 08037, was prepared in the Washington State Toxicology Laboratory on 7/31/2008. 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 7/31/2009.

Seattle, WA

*Christie Mitchell* 9/3/08  
Christie Mitchell Date  
Forensic Toxicologist

CM/ik  
CMQA

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7/31/2008 2:01:56 PM

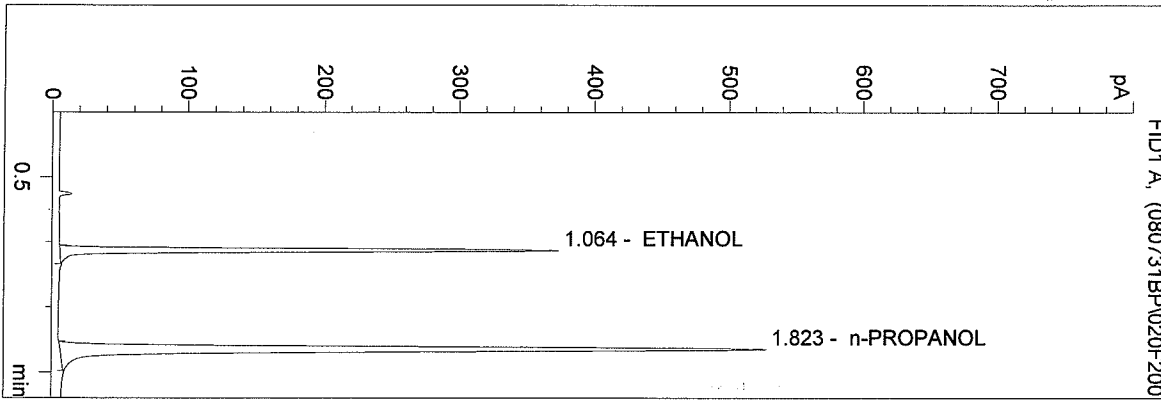
Instrument 3

db-alc2

QA08037-1

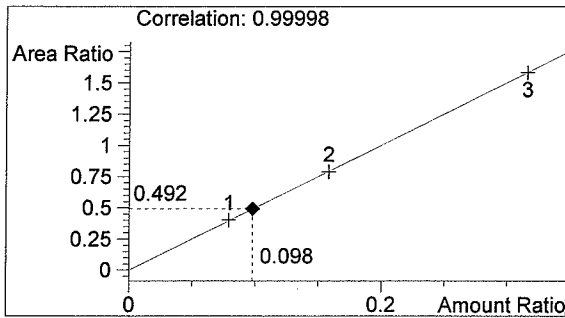
Brianna Peterson

vial # 20



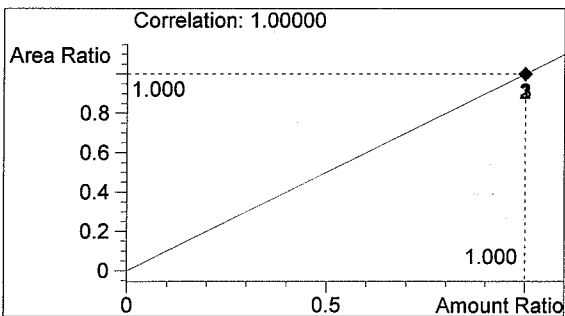
#	Compound	Area	RT
1	ETHANOL	718	1.064
2	n-PROPANOL	1460	1.823

Totals:



ETHANOL

0.098 g/100ml



n-PROPANOL

1.000 g/100ml

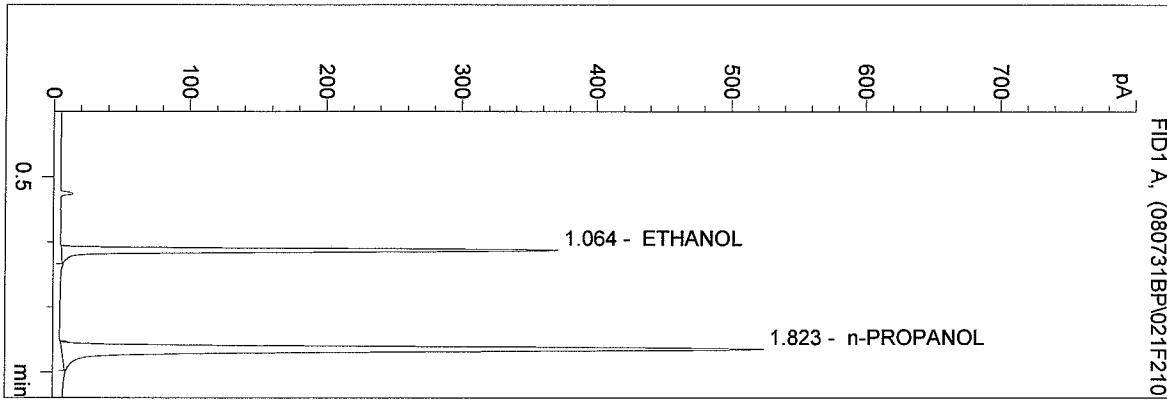
BP

CALIBRATION DATA FILED WITH 08036

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 Instrument 3  
 db-alc2

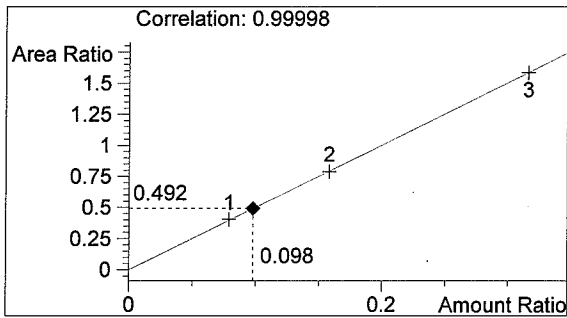
QA08037-2  
 Brianna Peterson

vial # 21



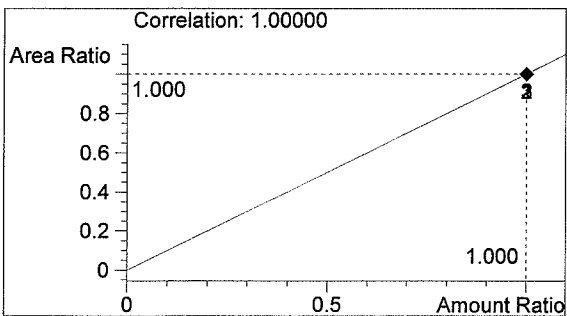
#	Compound	Area	RT
1	ETHANOL	716	1.064
2	n-PROPANOL	1454	1.823

Totals:



ETHANOL

0.098 g/100ml



n-PROPANOL

1.000 g/100ml

BP



C:\HPCHEM\2\METHODS\BLDALCO3.M

7/31/2008 2:08:05 PM

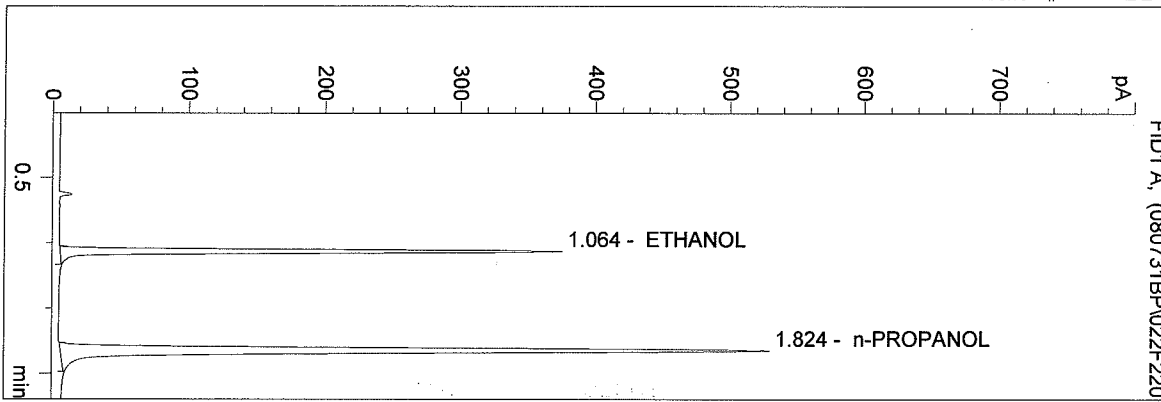
Instrument 3

db-alc2

QA08037-3

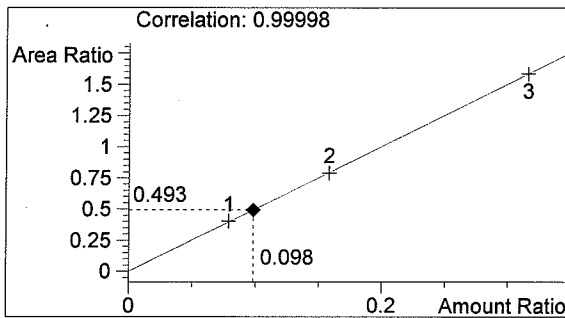
Brianna Peterson

vial # 22



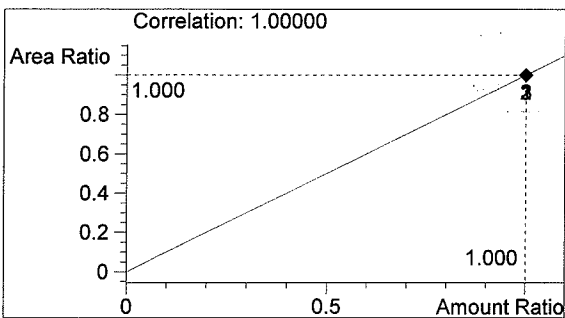
#	Compound	Area	RT
1	ETHANOL	723	1.064
2	n-PROPANOL	1467	1.824

Totals:



ETHANOL

0.098 g/100ml



n-PROPANOL

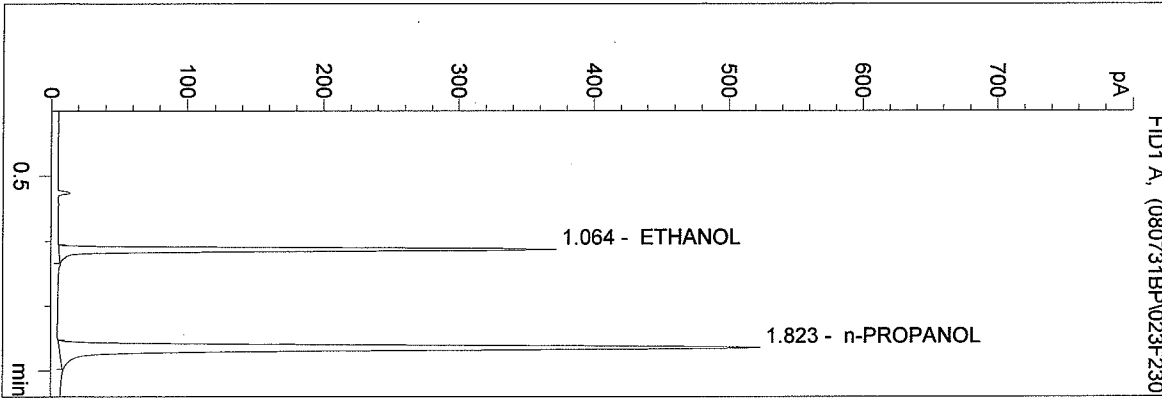
1.000 g/100ml

Bp

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 Instrument 3  
 db-alc2

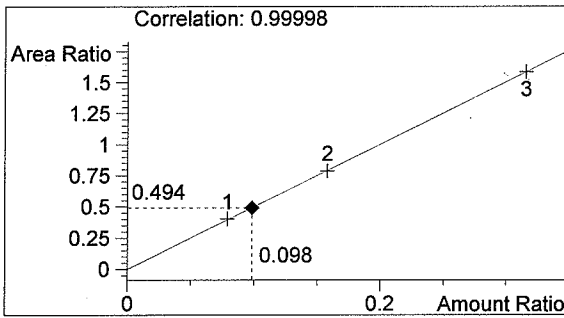
QA08037-4  
 Brianna Peterson

vial # 23



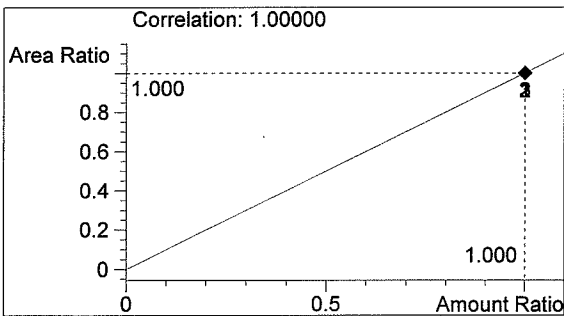
#	Compound	Area	RT
1	ETHANOL	717	1.064
2	n-PROPANOL	1450	1.823

Totals:



ETHANOL

0.098 g/100ml



n-PROPANOL

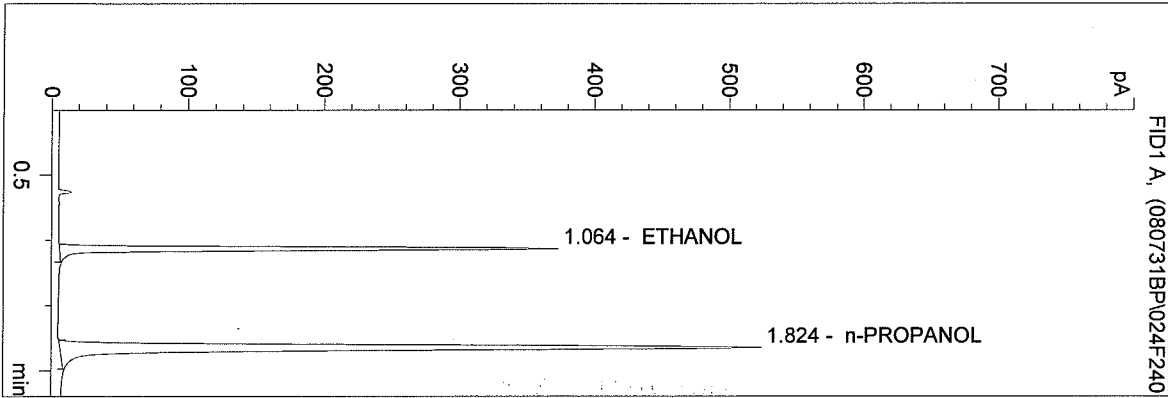
1.000 g/100ml

BP

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 Instrument 3  
 db-alc2

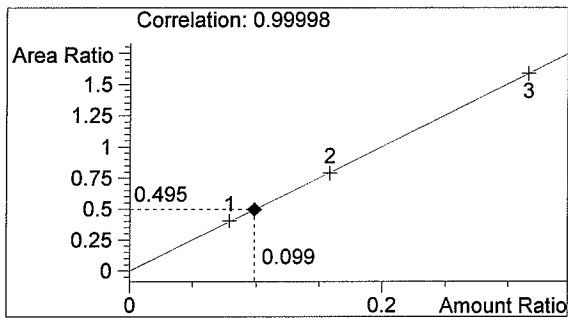
QA08037-5  
 Brianna Peterson

vial # 24



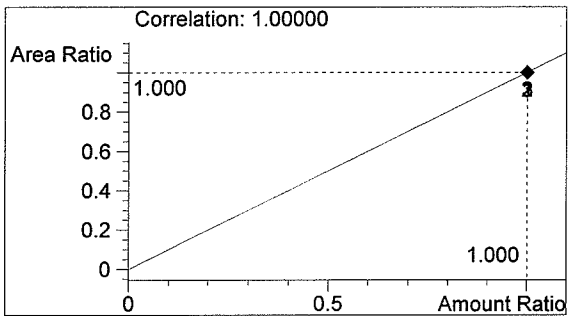
#	Compound	Area	RT
1	ETHANOL	719	1.064
2	n-PROPANOL	1453	1.824

Totals:



ETHANOL

0.099 g/100ml



n-PROPANOL

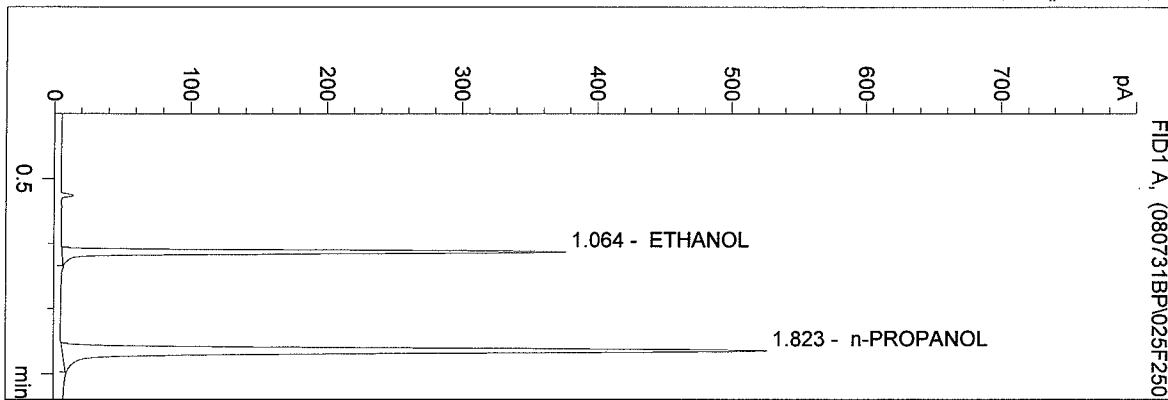
1.000 g/100ml

BP

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 Instrument 3  
 db-alc2

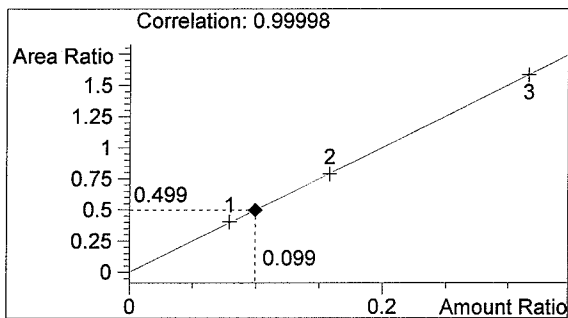
0.10 Ctrl-BP  
 Brianna Peterson

vial # 25



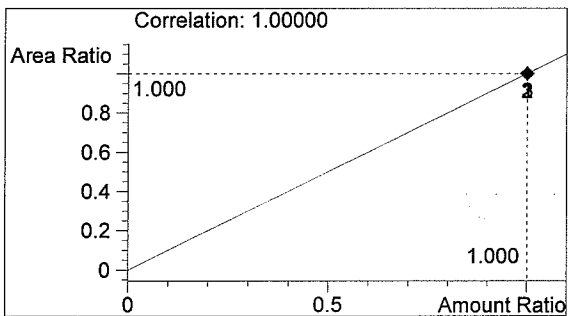
#	Compound	Area	RT
1	ETHANOL	726	1.064
2	n-PROPANOL	1456	1.823

Totals:



ETHANOL

0.099 g/100ml



n-PROPANOL

1.000 g/100ml

BP

C:\HPCHEM\2\METHODS\BLDALCO3.M

7/31/2008 2:20:34 PM

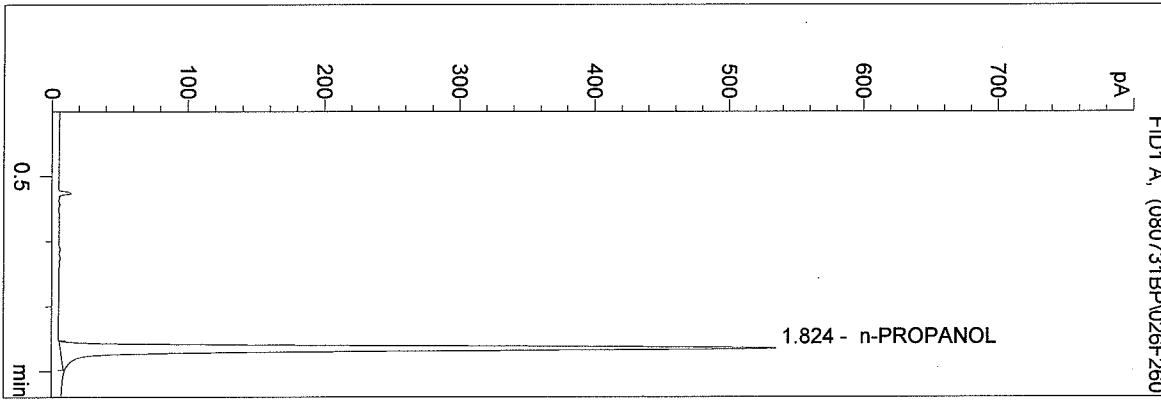
Instrument 3

db-alc2

BLANK

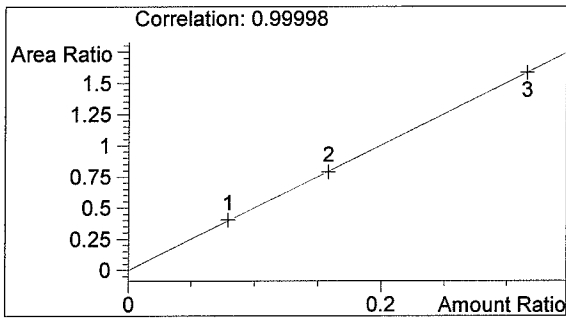
Brianna Peterson

vial # 26



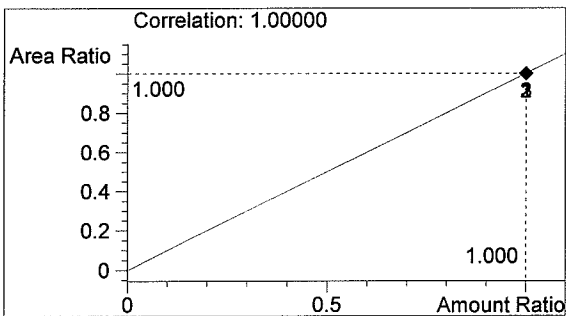
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1481	1.824

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

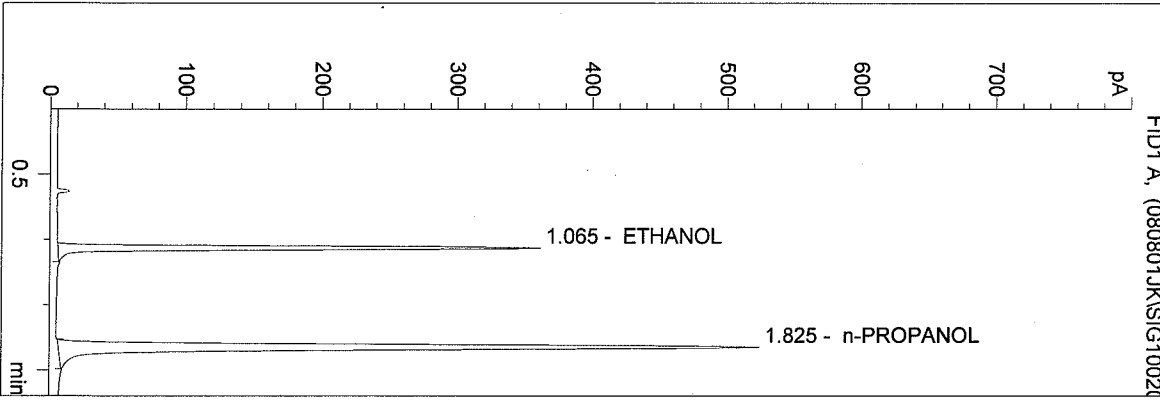
1.000 g/100ml

bp

C:\HPCHEM\2\METHODS\BLDALCO3.M  
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 Instrument 3  
 db-alc2

QA08037-1  
 Justin Knoy

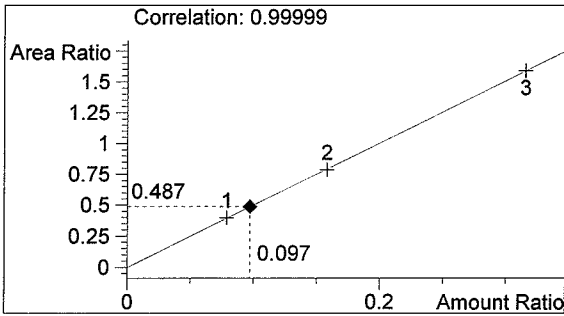
vial # 20



#	Compound	Area	RT
1	ETHANOL	710	1.065
2	n-PROPANOL	1457	1.825

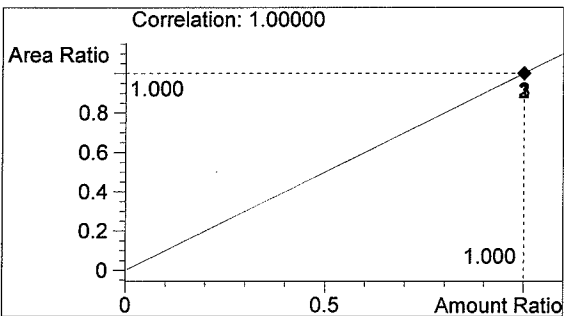
Totals:

*Calibration w/  
 QA 08036*



ETHANOL

0.097 g/100ml



n-PROPANOL

1.000 g/100ml

*JK*

C:\HPCHEM\2\METHODS\BLDALCO3.M

8/1/2008 2:58:59 PM

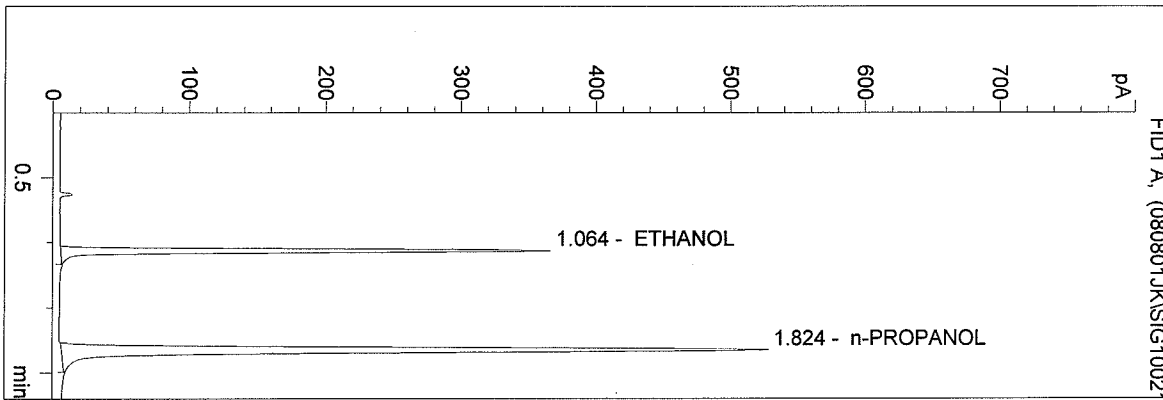
Instrument 3

db-alc2

QA08037-2

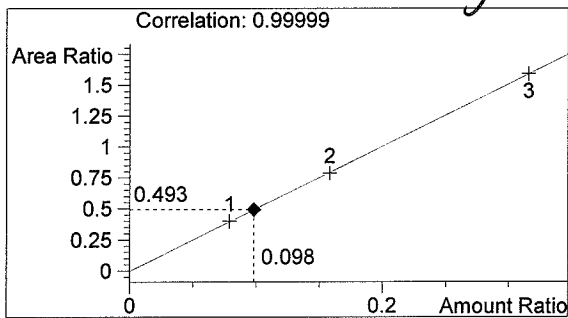
Justin Knoy

vial # 21



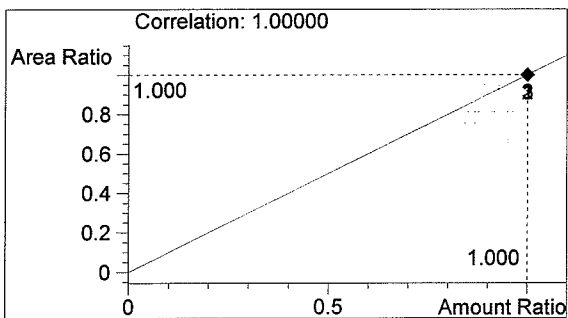
#	Compound	Area	RT
1	ETHANOL	724	1.064
2	n-PROPANOL	1468	1.824

Totals:



ETHANOL

0.098 g/100ml



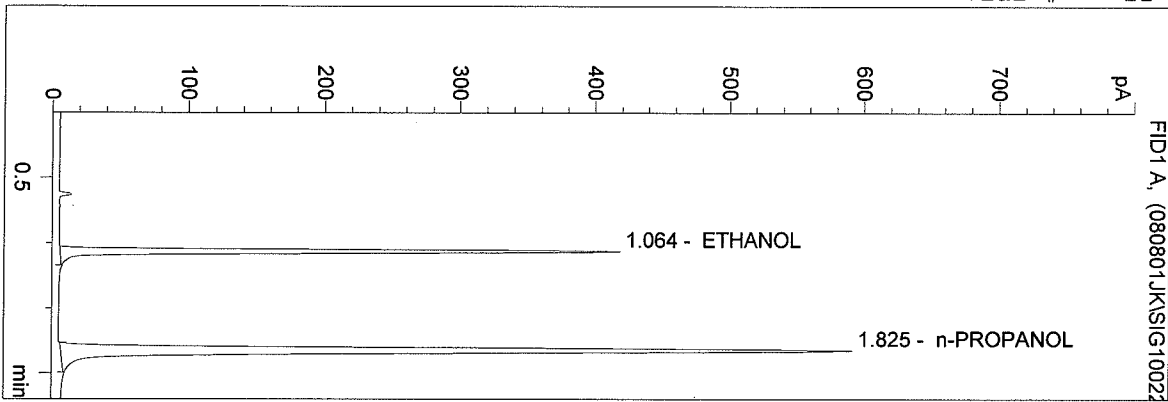
n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/1/2008 3:02:06 PM  
 Instrument 3  
 db-alc2

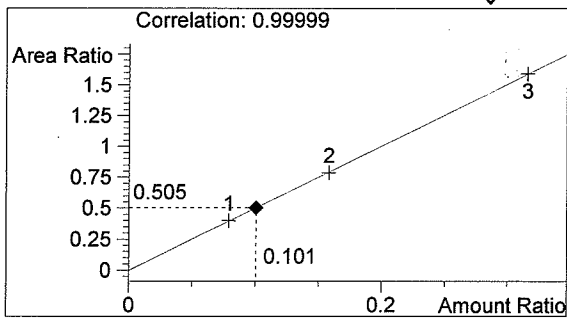
QA08037-3  
 Justin Knoy

vial # 22



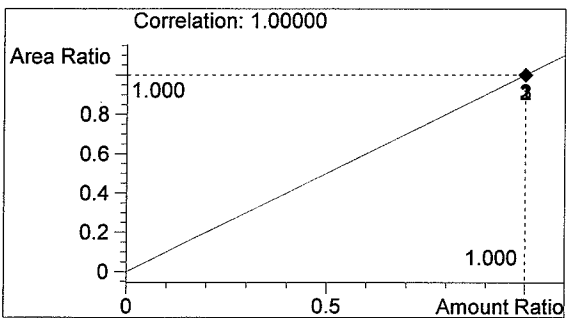
#	Compound	Area	RT
1	ETHANOL	829	1.064
2	n-PROPANOL	1643	1.825

Totals:



ETHANOL

0.101 g/100ml



n-PROPANOL

1.000 g/100ml

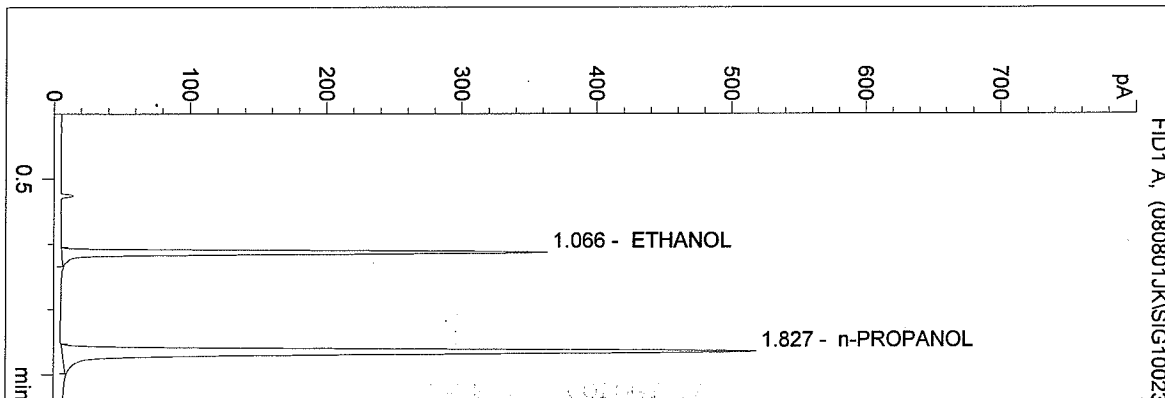
*JK*



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 Instrument 3  
 db-alc2

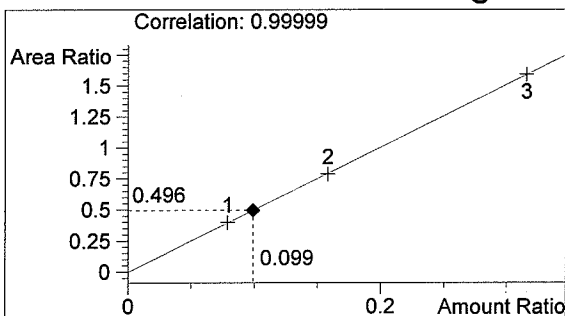
QA08037-4  
 Justin Knoy

vial # 23



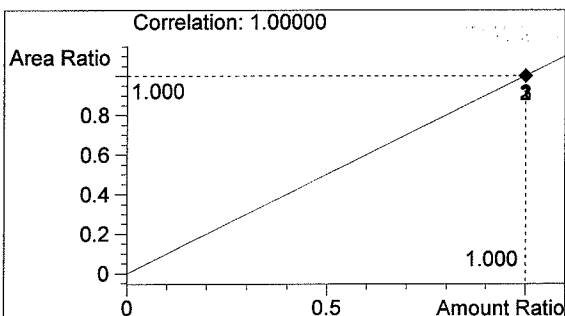
#	Compound	Area	RT
1	ETHANOL	714	1.066
2	n-PROPANOL	1440	1.827

Totals:



ETHANOL

0.099 g/100ml



n-PROPANOL

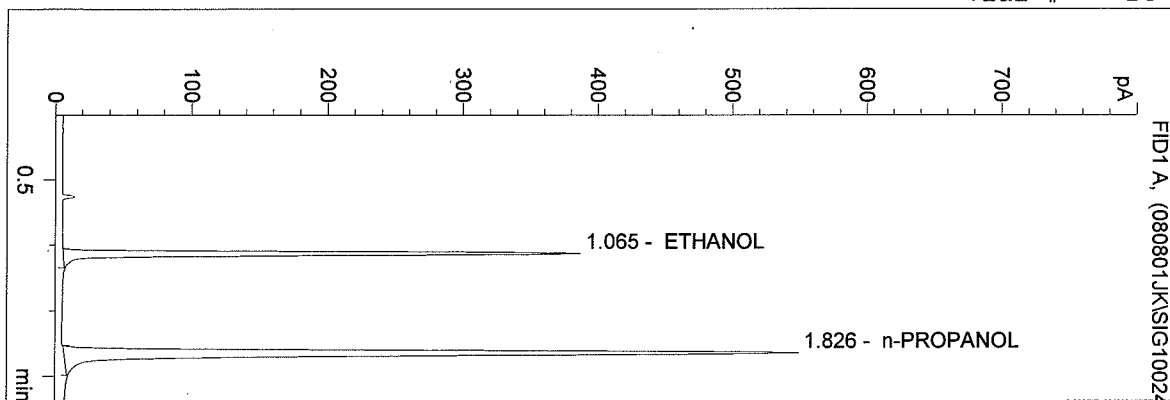
1.000 g/100ml

*JK*

C:\HPCHEM\2\METHODS\BLDALCO3.M  
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 Instrument 3  
 db-alc2

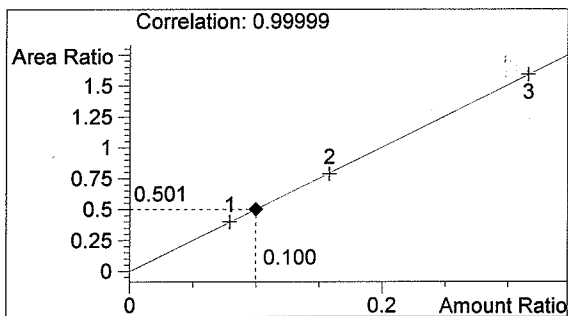
QA08037-5  
 Justin Knoy

vial # 24



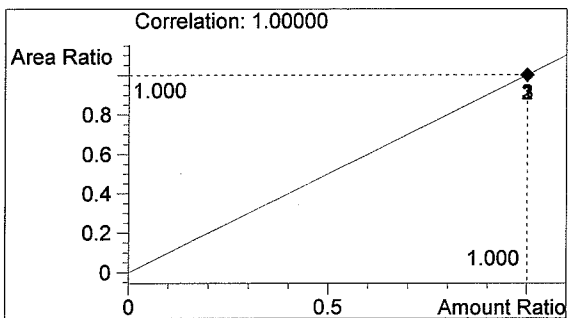
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1	ETHANOL	765	1.065
2	n-PROPANOL	1527	1.826

Totals:



ETHANOL

0.100 g/100ml



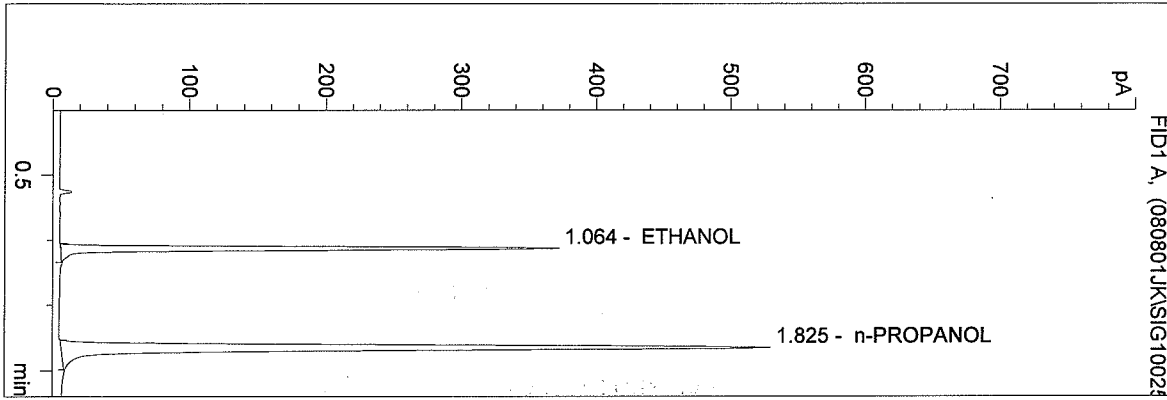
n-PROPANOL

1.000 g/100ml

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 8/1/2008 3:11:27 PM  
 Instrument 3  
 db-alc2

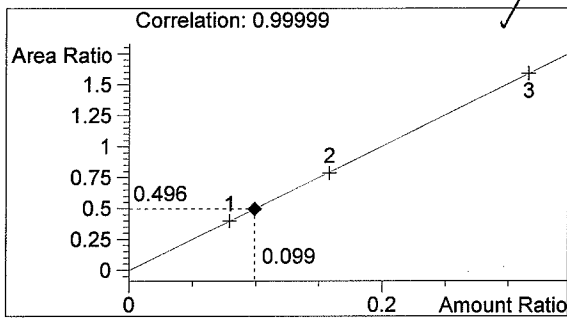
0.10 CTRL JK  
 Justin Knoy

vial # 25



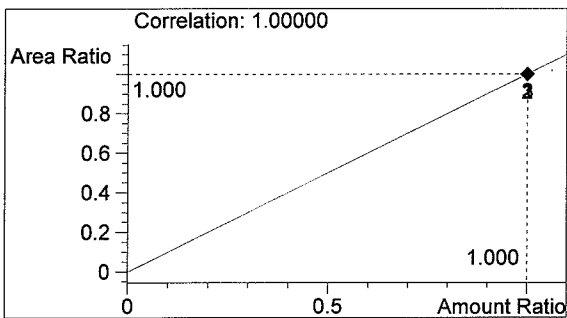
#	Compound	Area	RT
1	ETHANOL	731	1.064
2	n-PROPANOL	1472	1.825

Totals:



ETHANOL

0.099 g/100ml



n-PROPANOL

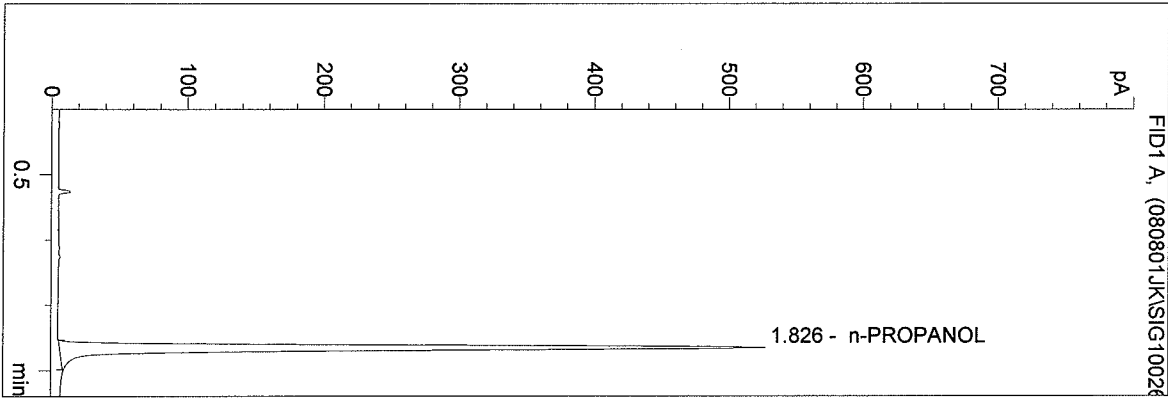
1.000 g/100ml

*JK*

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 db-alc2

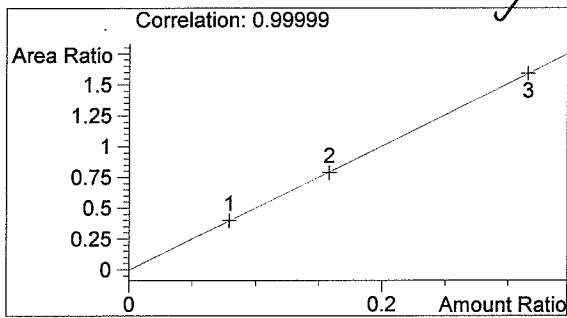
BLANK  
 Justin Knoy

vial # 26



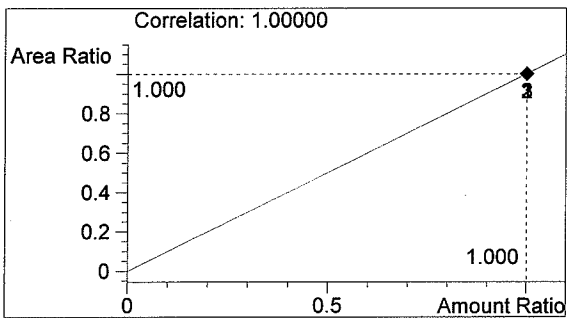
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1463	1.826

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M

8/6/2008 10:33:01 AM

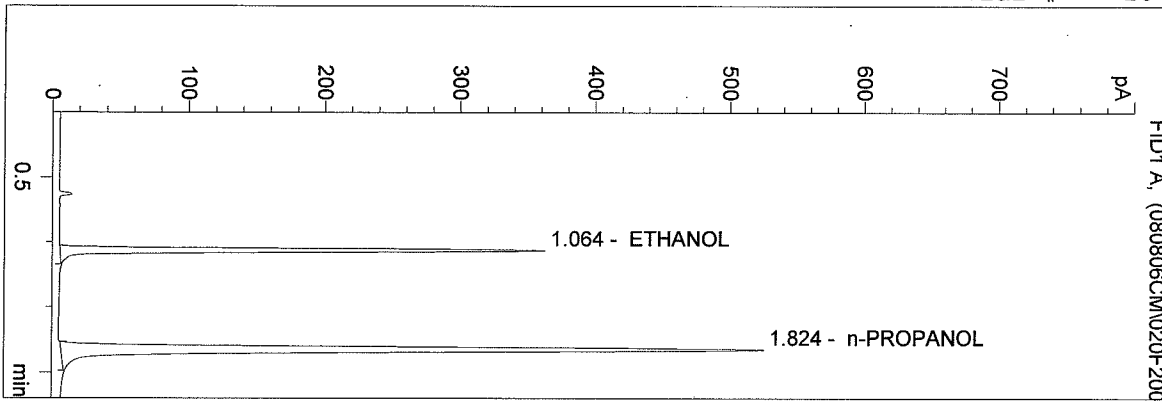
Instrument 3

db-alc2

QA08037-1

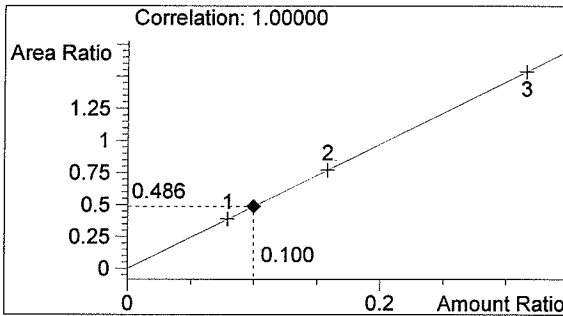
Christie Mitchell

vial # 20



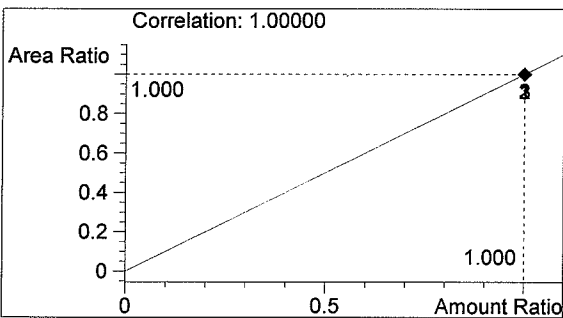
#	Compound	Area	RT
1	ETHANOL	710	1.064
2	n-PROPANOL	1459	1.824

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

1.000 g/100ml

CM

Calibration Data filed with QA08036

CM 8/6/08

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8/6/2008 10:36:08 AM

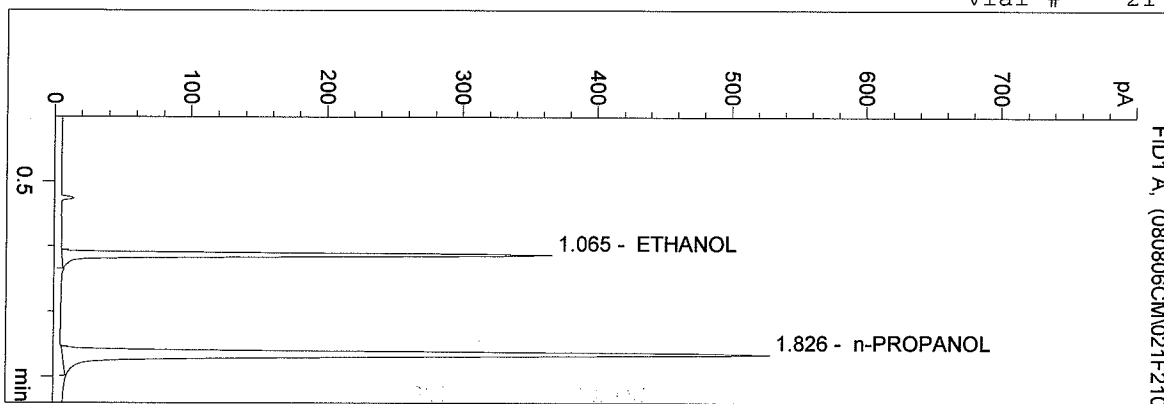
Instrument 3

db-alc2

QA08037-2

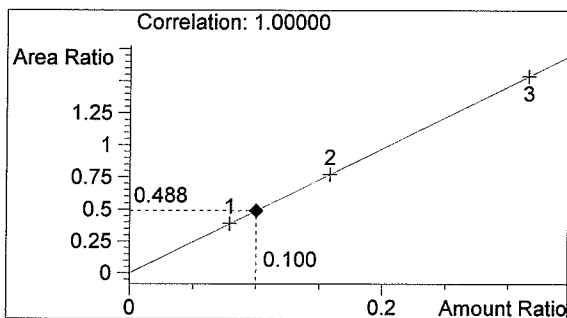
Christie Mitchell

vial # 21



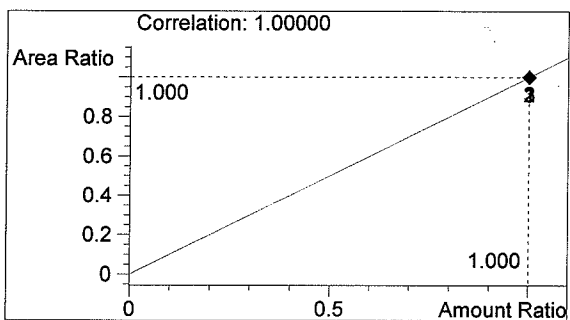
#	Compound	Area	RT
1	ETHANOL	717	1.065
2	n-PROPANOL	1467	1.826

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*

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8/6/2008 10:39:15 AM

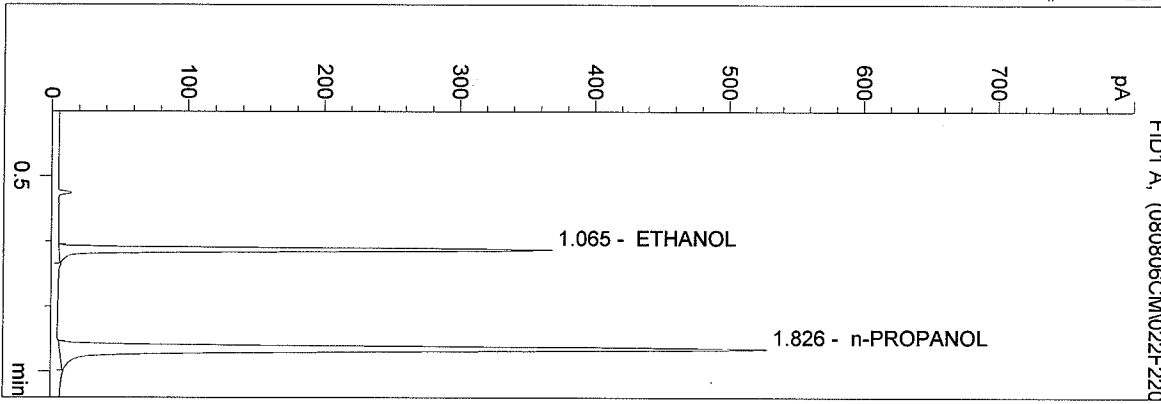
Instrument 3

db-alc2

QA08037-3

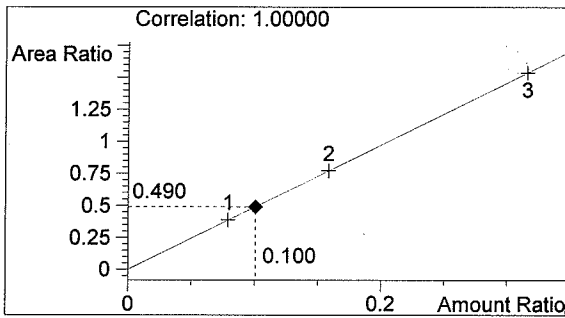
Christie Mitchell

vial # 22



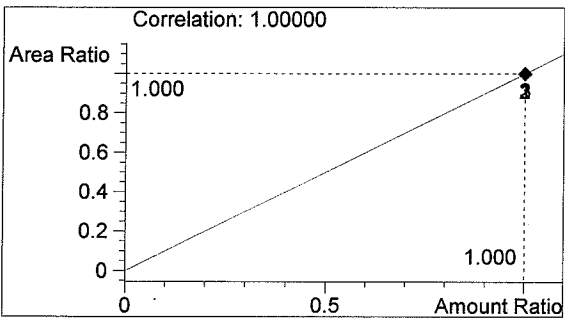
#	Compound	Area	RT
1	ETHANOL	719	1.065
2	n-PROPANOL	1468	1.826

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*

C:\HPCHEM\2\METHODS\BLDALCO3.M

8/6/2008 10:42:23 AM

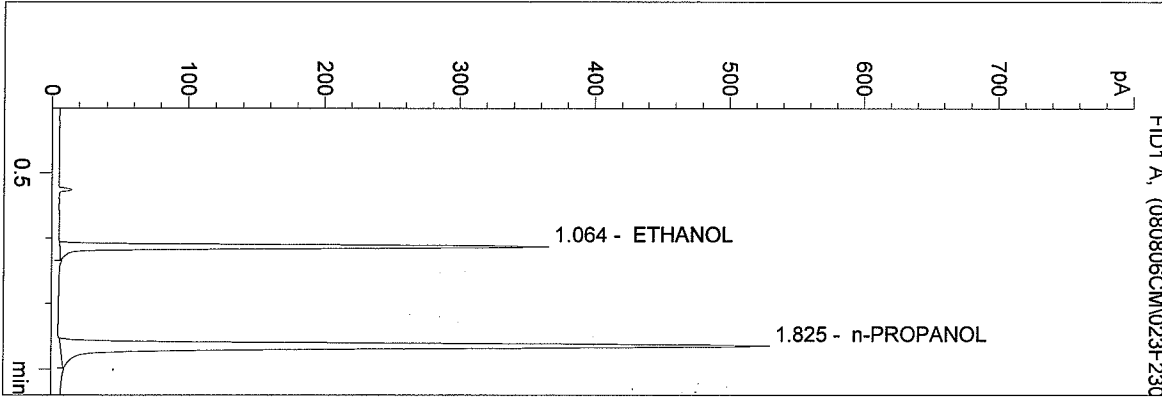
Instrument 3

db-alc2

QA08037-4

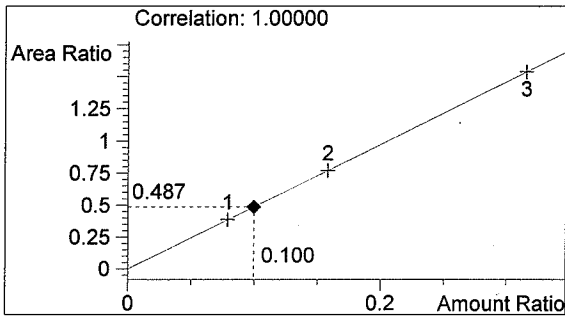
Christie Mitchell

vial # 23



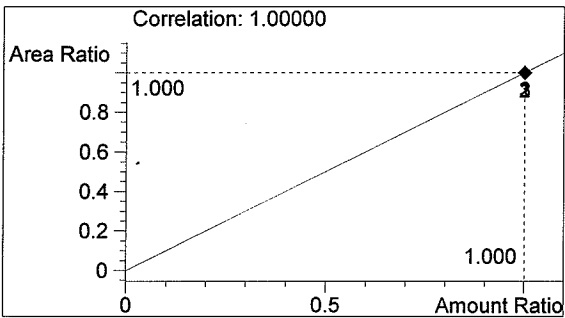
#	Compound	Area	RT
1	ETHANOL	718	1.064
2	n-PROPANOL	1474	1.825

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*



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8/6/2008 10:45:30 AM

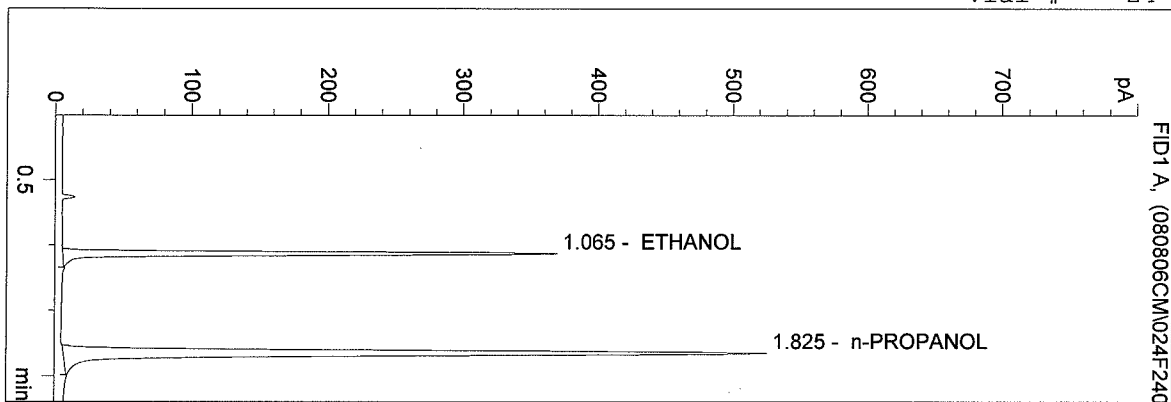
Instrument 3

db-alc2

QA08037-5

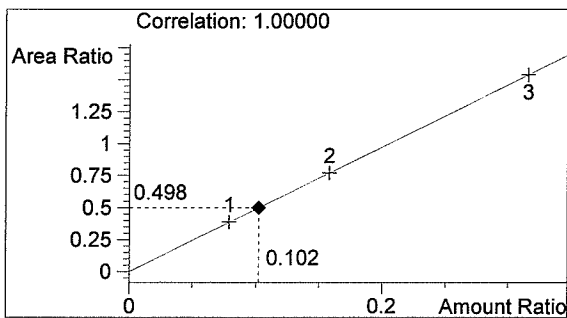
Christie Mitchell

vial # 24



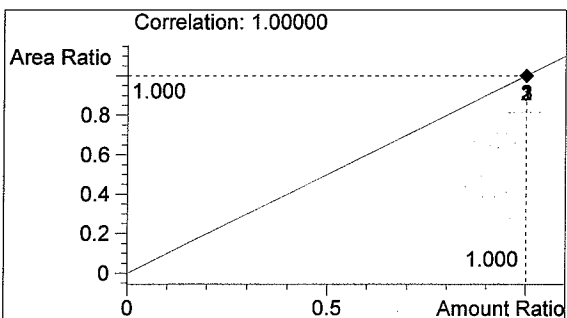
#	Compound	Area	RT
1	ETHANOL	725	1.065
2	n-PROPANOL	1457	1.825

Totals:



ETHANOL

0.102 g/100ml



n-PROPANOL

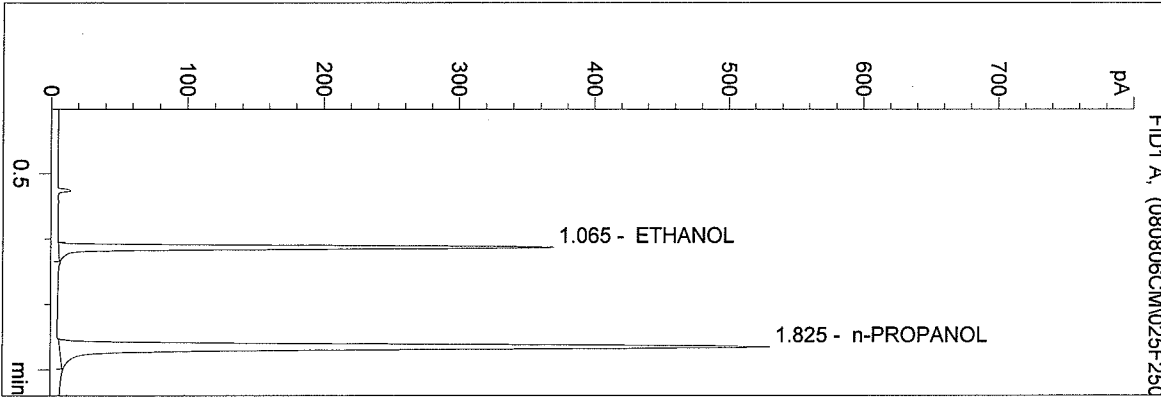
1.000 g/100ml

CM

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 8/6/2008 10:48:37 AM  
 Instrument 3  
 db-alc2

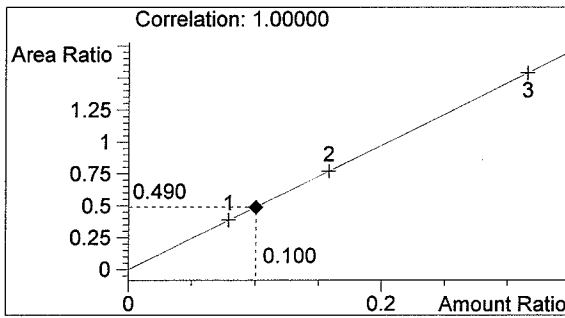
0.10 Ctrl-CM  
 Christie Mitchell

vial # 25



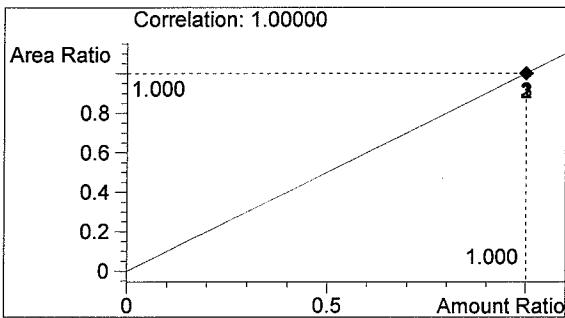
#	Compound	Area	RT
1	ETHANOL	721	1.065
2	n-PROPANOL	1471	1.825

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*

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8/6/2008 10:51:44 AM

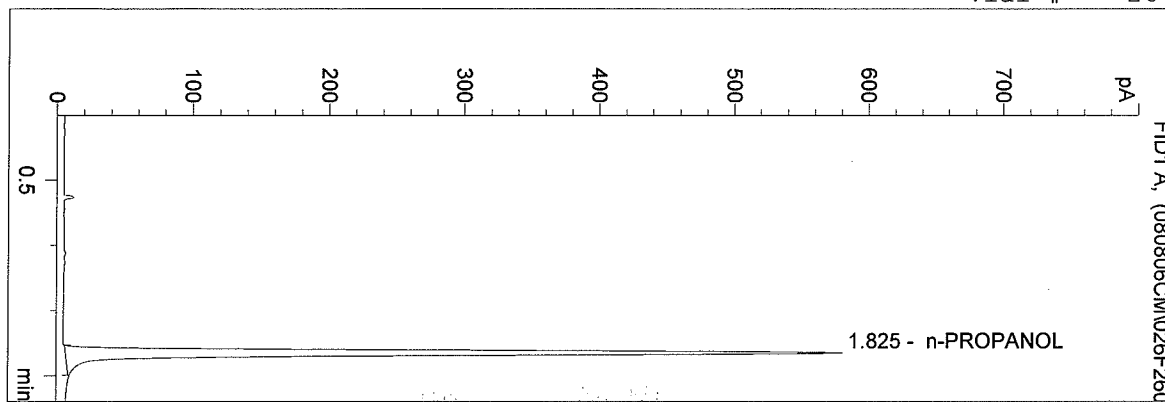
Instrument 3

db-alc2

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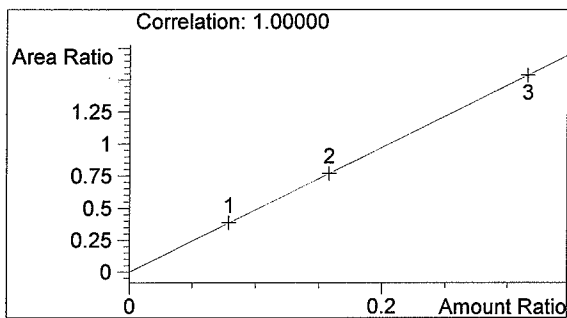
Christie Mitchell

vial # 26



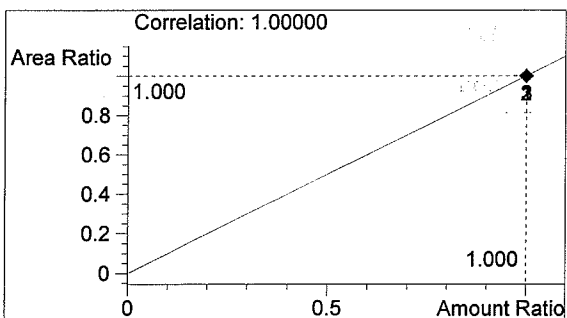
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1609	1.825

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

1.000 g/100ml

CM