

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



Reviewer/s: KEN NEWTON/ROD GULLBERG Date: 1-14-2008

Location: TOX LAB SEATTLE Solution Batch Number: 04011

	YES	NO	N/A
Preparation date precedes all analysis dates:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data entry corresponds to all chromatograms:	<input type="checkbox"/>	<input checked="" 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"/>
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

NO CONTROL CHROMATOGRAM FOR TRIU MARSHALL

Reviewer Signature: [Signature] Date: 1-14-2008

Reviewer Signature: [Signature] Date: 1/14/2008

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

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

Batch number **04011**

Date: 4/21/2004

Preparation: 22.2 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
1	0.098	0.095	0.096									
2	0.098	0.096	0.096									
3	0.098	0.097	0.096									
4	0.098	0.096	0.096									
5	0.098	0.097	0.096									
Ctrl	0.100	0.098	0.098									

External Control:

Lot #: A024546 Exp date: 09/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.0967 g/100 mL

SD: 0.00103

Range (3xSD): 0.0936 to 0.0998

Precision CV (%): 1.0677 %

Rll
1-14-08

Equivalent vapor concent.: 0.0786 g/210L

1.0680

Analyst	Name	Signature	Date
1	Kari Gruendell	<i>Kari Gruendell</i>	04/22/04
2	Melissa Pemberton	<i>Melissa Pemberton</i>	04/27/04
3	William P Marshall	<i>William P Marshall</i>	04/27/04
4			
5			
6			
7			
8			
9			
10			
11			
12			

4-26-04
Rll
1-14-08

Prepared by: Kari Gruendell according to the approved protocol



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

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

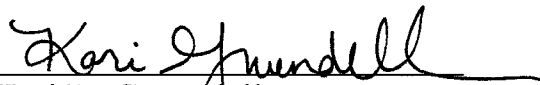
I, Kari D. Gruendell, do certify under penalty of perjury as follows:

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

I possess the following qualifications: BS degree in Biology and a minor in Chemistry and two years of analytical laboratory experience.

The quality assurance solution, Lot Number 04011, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0967 grams per 100ml.

Dated: 4/30/04
Seattle, WA


Kari D. Gruendell
Forensic Toxicologist

KDG/bf
KDGQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

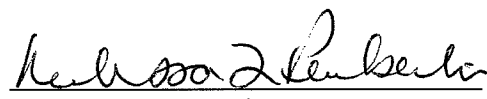
I, Melissa L. Pemberton, do certify under penalty of perjury that:

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

I possess the following qualifications: Bachelors degree in Microbiology and ten years of experience as a forensic toxicologist.

The quality assurance solution, Lot Number 04011 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0967 grams per 100ml.

Dated: 4/30/04
Seattle, WA


Melissa L. Pemberton
Forensic Toxicologist

MP/bf
MPQA

A review of solution batch records was recently completed. After this review, I checked the file for this solution and reviewed all changes that were made. I found that the solution still conformed to those standards established by the State Toxicologist for the certification of simulator solutions.


T-15-05 





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION


I, William P. Marshall, do certify under penalty of perjury as follows:

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

I possess the following qualifications: BS degree in Chemistry and thirty-one years of analytical laboratory experience including fifteen years of toxicology experience.

The quality assurance solution, Lot Number 04011 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0967 grams per 100ml.

Dated: 4/30/04
Seattle, WA



William P. Marshall
Forensic Toxicologist

WM/bf
WMQA



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4/22/04 1:54:22 PM

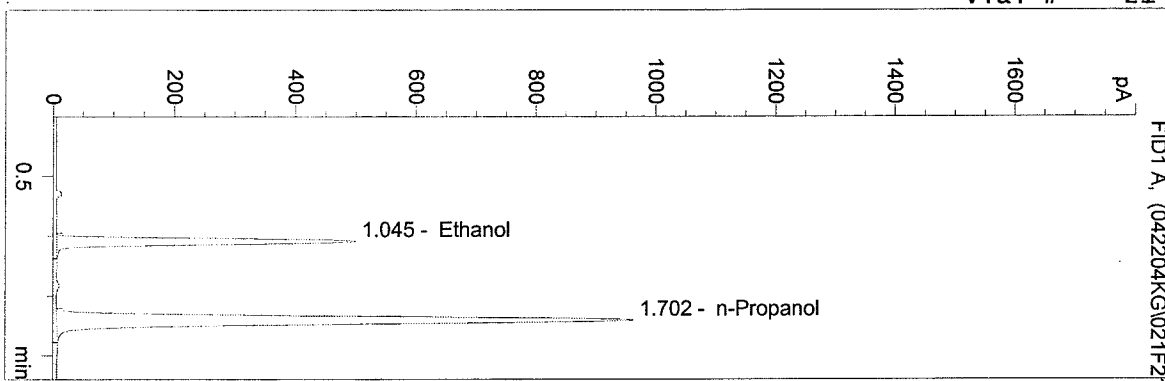
Instrument 1

PP-ALC1

QA 04011

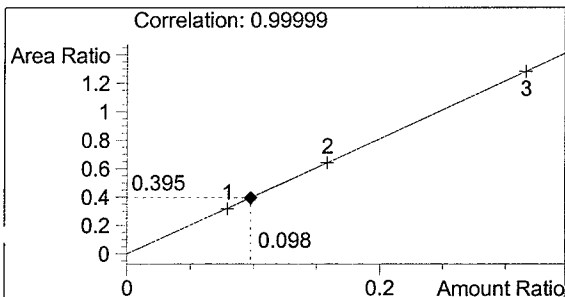
Kari Gruendell

vial # 21

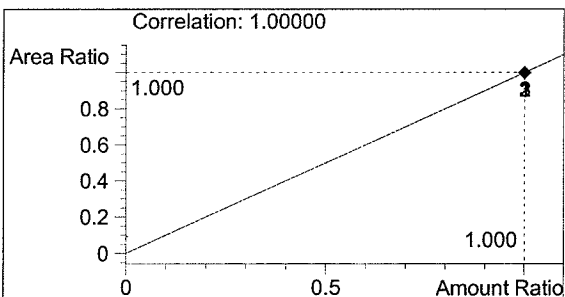


#	Compound	Area	RT
1	Ethanol	1666	1.045
2	n-Propanol	4215	1.702

Totals:



Ethanol 0.098 g/100ml

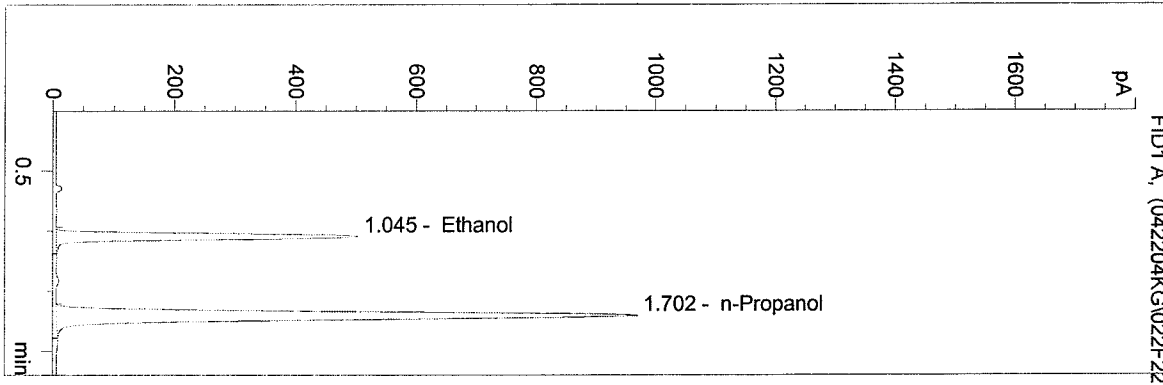


n-Propanol 1.000 g/100ml

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 DP-ALC1

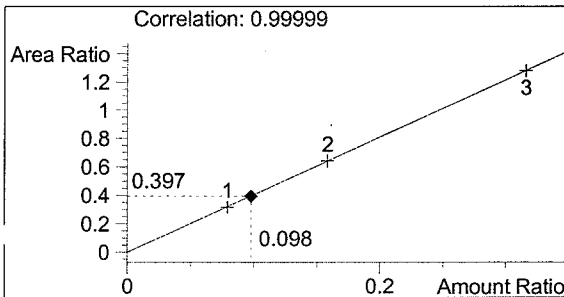
QA 04011
 Kari Gruendell

vial # 22

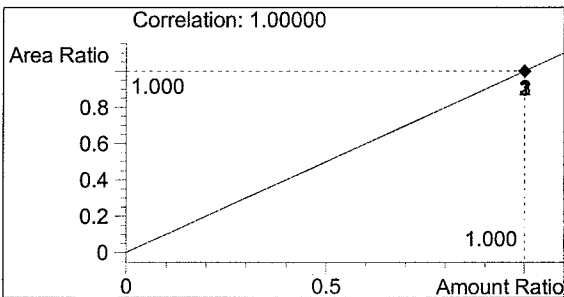


#	Compound	Area	RT
1	Ethanol	1678	1.045
2	n-Propanol	4229	1.702

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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4/22/04 2:00:31 PM

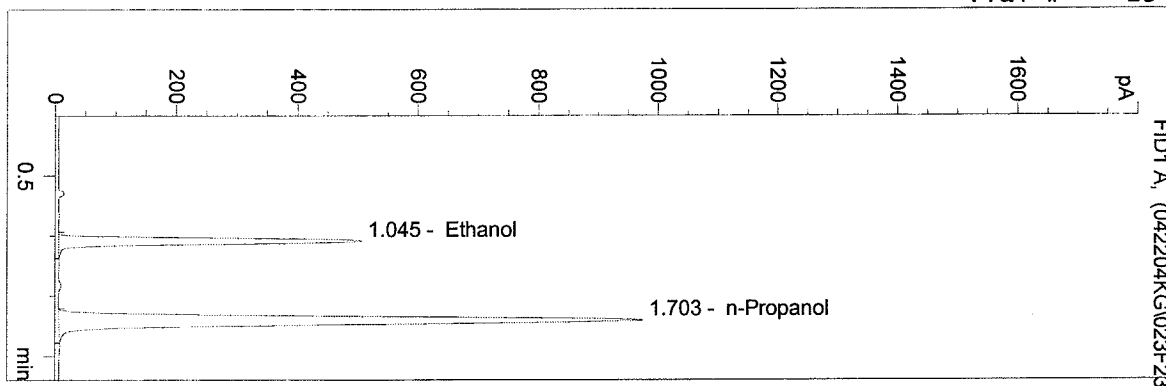
Instrument 1

MS-ALC1

QA 04011

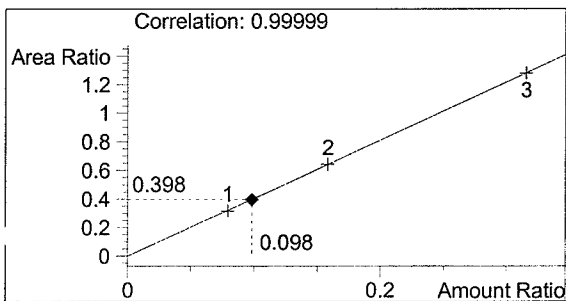
Kari Gruendell

vial # 23

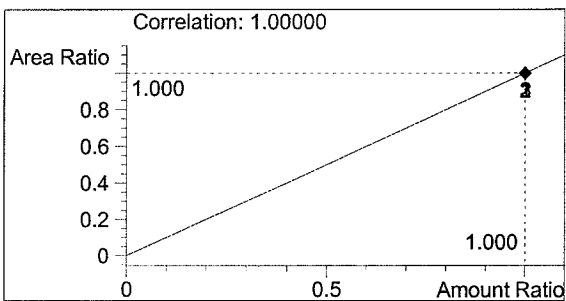


#	Compound	Area	RT
1	Ethanol	1691	1.045
2	n-Propanol	4254	1.703

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

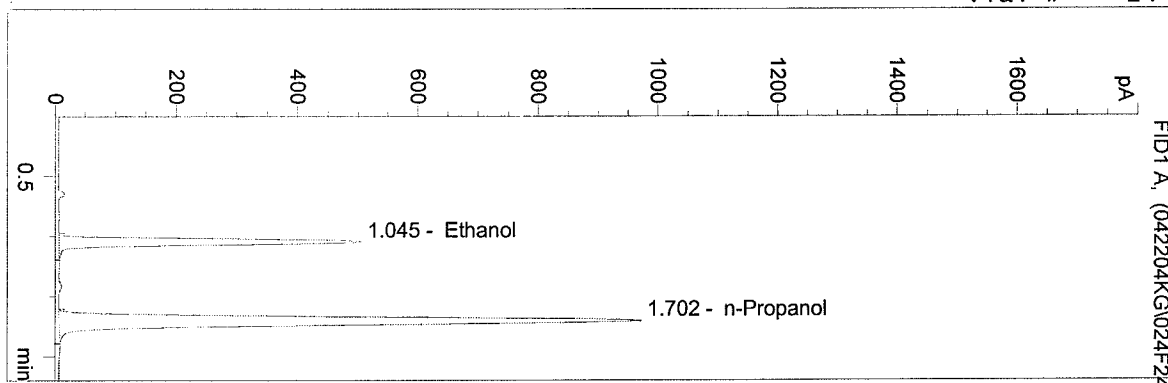
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Instrument 1

DP-ALC1

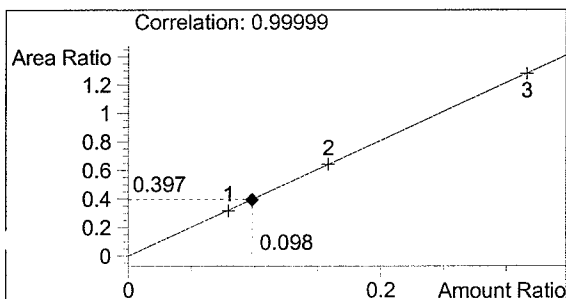
QA 04011
Kari Gruendell

vial # 24

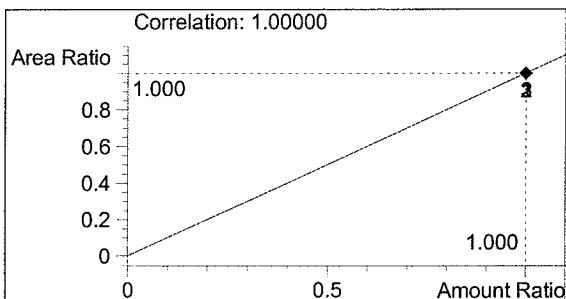


#	Compound	Area	RT
1	Ethanol	1683	1.045
2	n-Propanol	4243	1.702

Totals:



Ethanol 0.098 g/100ml

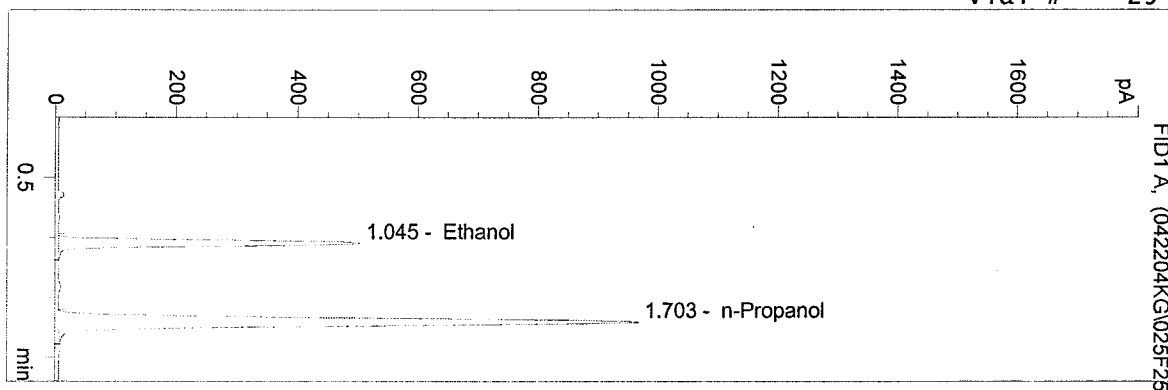


n-Propanol 1.000 g/100ml

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 4/22/04 2:06:41 PM
 Instrument 1
 PP-ALC1

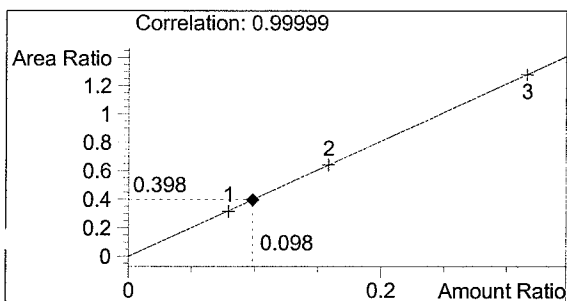
QA 04011
 Kari Gruendell

vial # 25

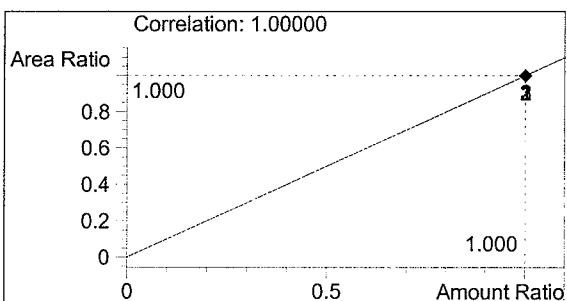


#	Compound	Area	RT
1	Ethanol	1682	1.045
2	n-Propanol	4230	1.703

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

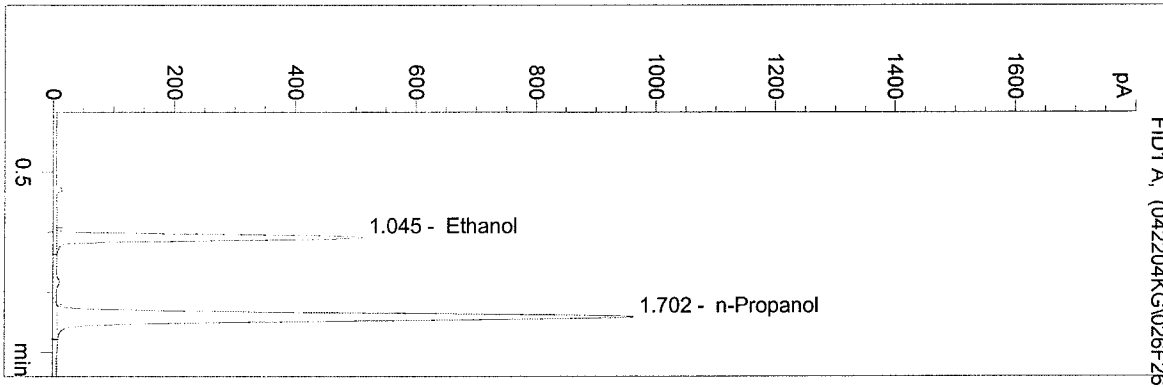
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Instrument 1

PP-ALC1

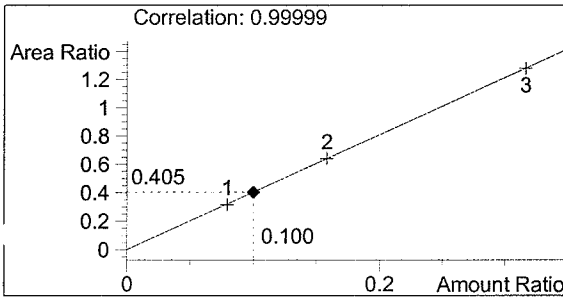
0.10 CONTROL
Kari Gruendell

vial # 26

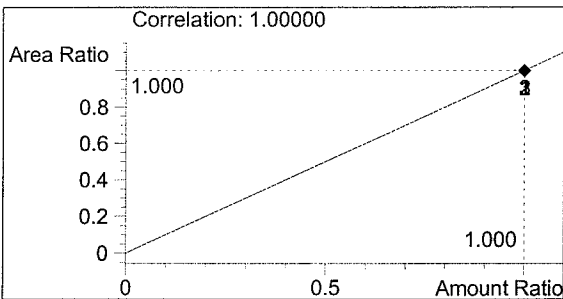


#	Compound	Area	RT
1	Ethanol	1704	1.045
2	n-Propanol	4207	1.702

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

4/22/04 2:12:50 PM

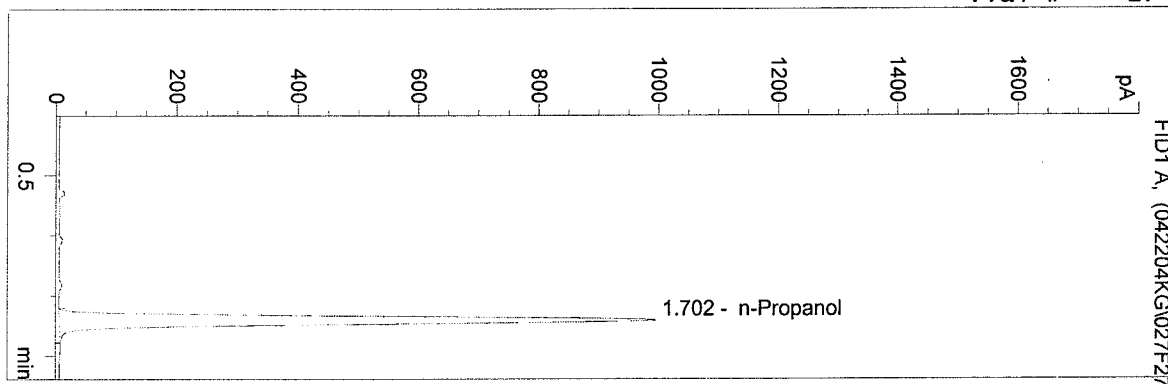
Instrument 1

PT-ALC1

BLANK

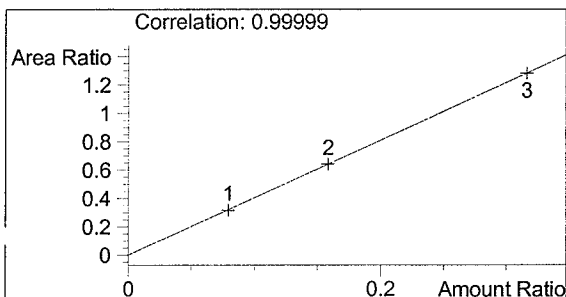
Kari Gruendell

vial # 27

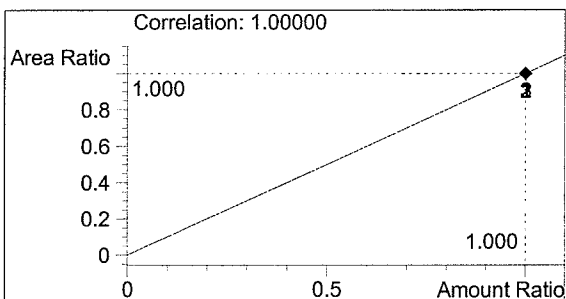


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	4331	1.702

Totals:



Ethanol 0.000 g/100ml

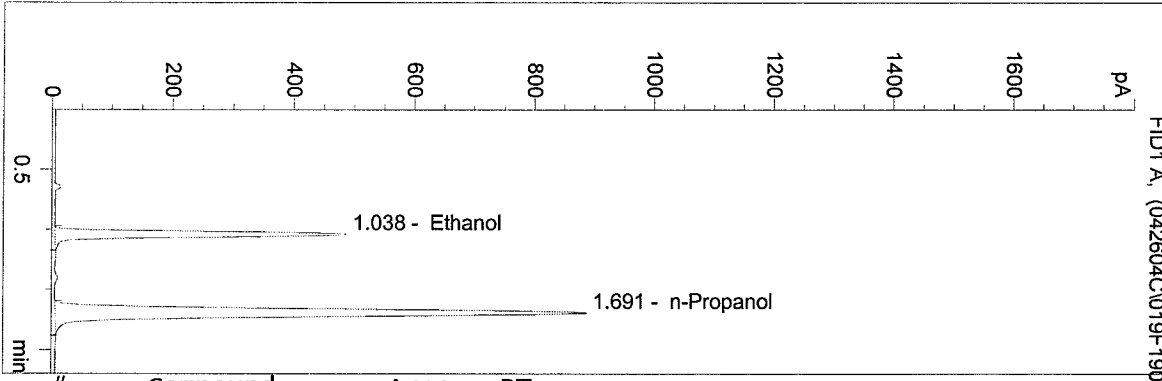


n-Propanol 1.000 g/100ml

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 Instrument 2
 ALC1

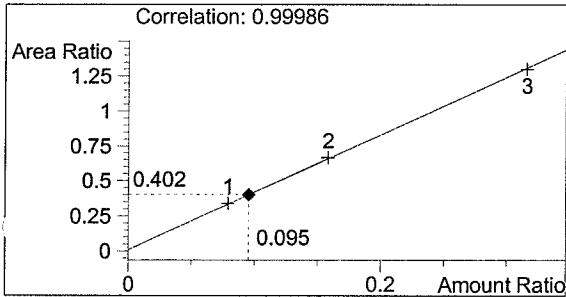
04011 0.08qa
 m pemberton

vial # 19

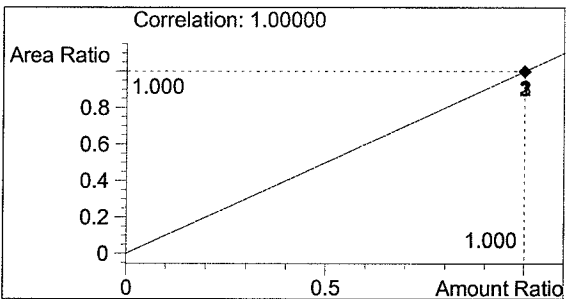


#	Compound	Area	RT
1	Ethanol	1510	1.038
2	n-Propanol	3753	1.691

Totals:



Ethanol 0.095 g/100ml



n-Propanol 1.000 g/100ml

Handwritten signature
 1-15-08

C:\HPCHEM\2\METHODS\BLDALCO2.M

4/26/04 10:22:48 AM

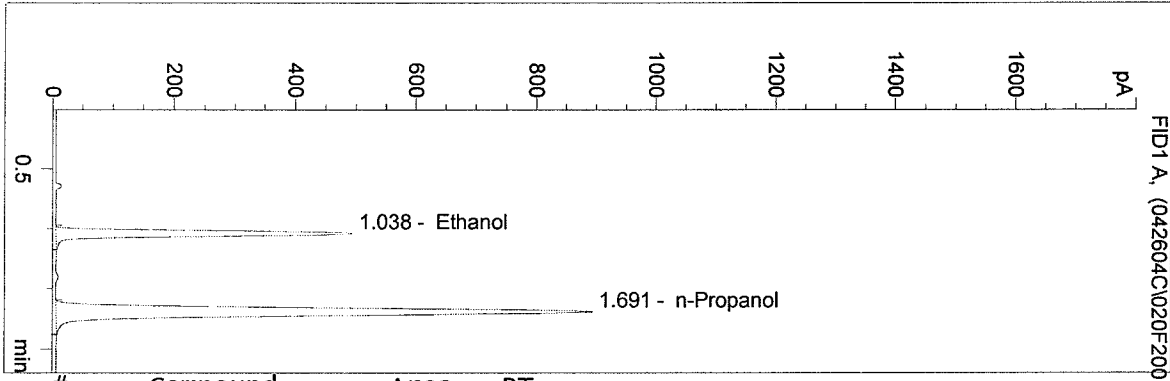
Instrument 2

ALC1

04011 0.08qa

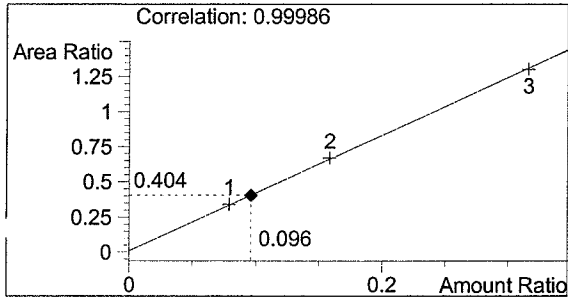
m pemberton

vial # 20

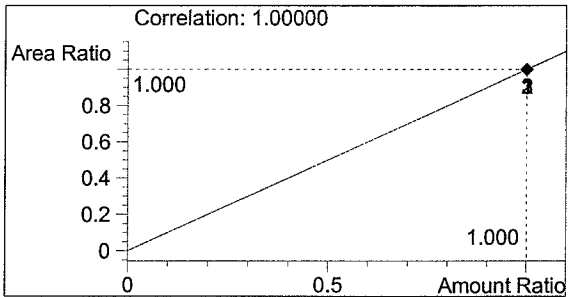


#	Compound	Area	RT
1	Ethanol	1530	1.038
2	n-Propanol	3783	1.691

Totals:



Ethanol 0.096 g/100ml



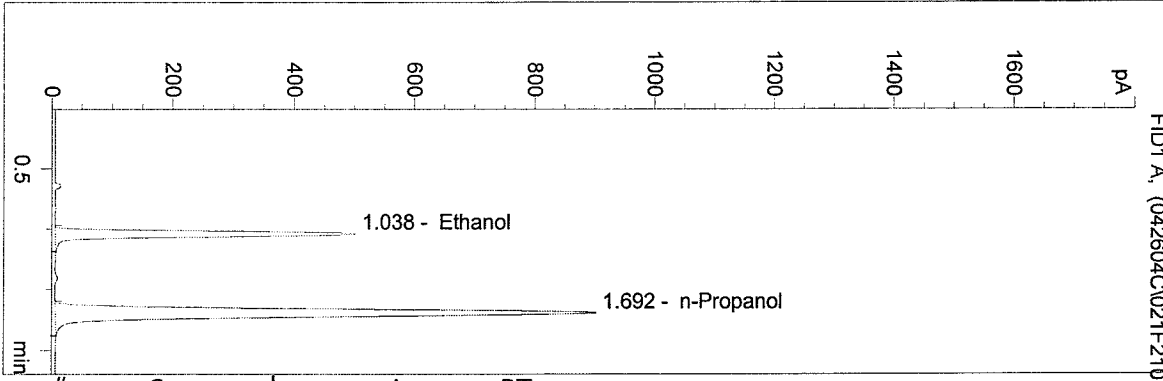
n-Propanol 1.000 g/100ml

WP
1-15-08

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 FID1 ALC1

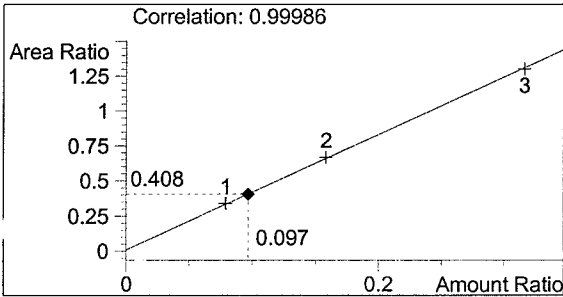
04011 0.08qa
 m pemberton

vial # 21

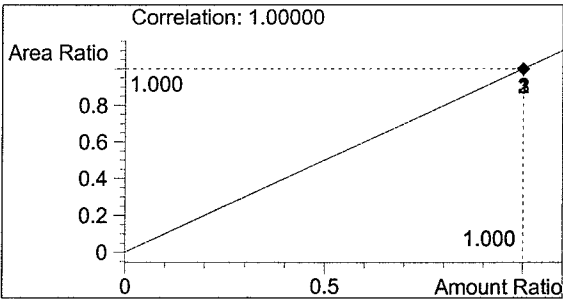


#	Compound	Area	RT
1	Ethanol	1560	1.038
2	n-Propanol	3823	1.692

Totals:



Ethanol 0.097 g/100ml



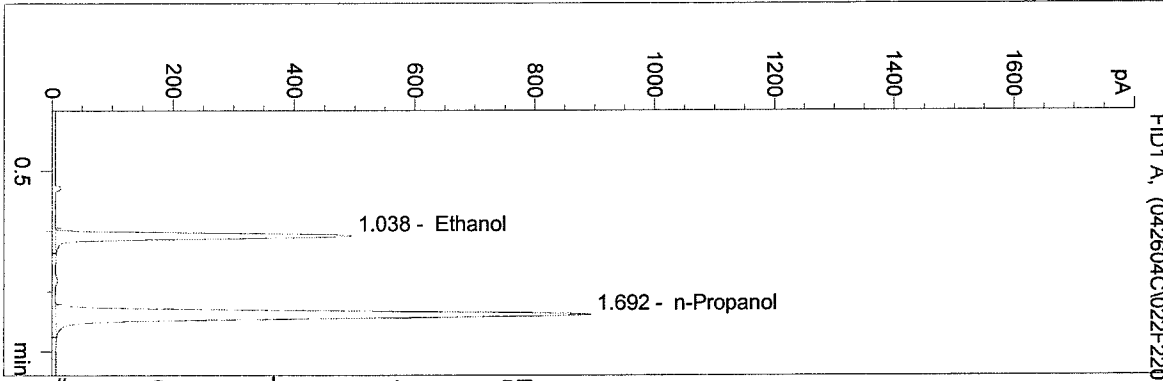
n-Propanol 1.000 g/100ml

Handwritten signature and date: 1-15-08

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 Instrument 2
 P-ALC1

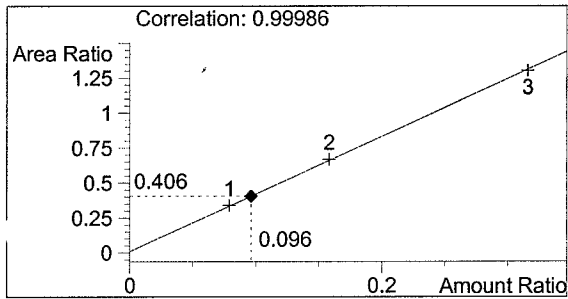
04011 0.08qa
 m pemberton

vial # 22

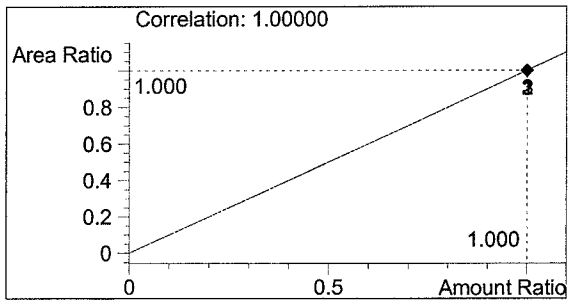


#	Compound	Area	RT
1	Ethanol	1533	1.038
2	n-Propanol	3777	1.692

Totals:



Ethanol 0.096 g/100ml



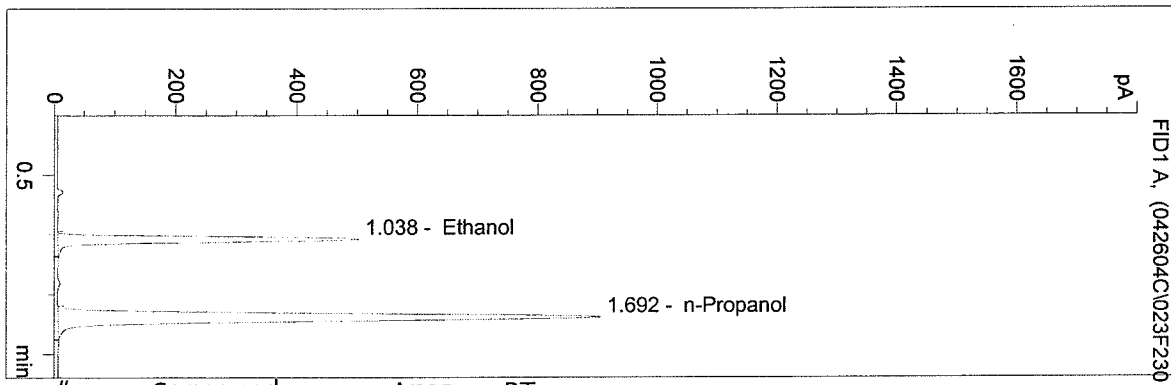
n-Propanol 1.000 g/100ml

Handwritten: BP
 1-15-08

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 Instrument 2
 ALC1

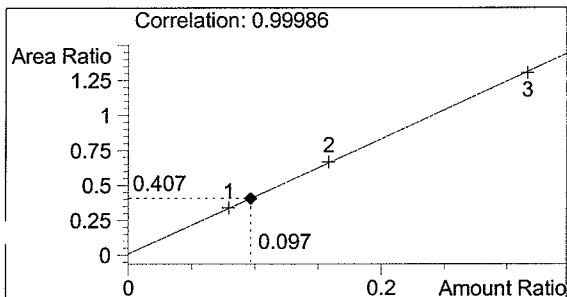
04011 0.08qa
 m pemberton

vial # 23

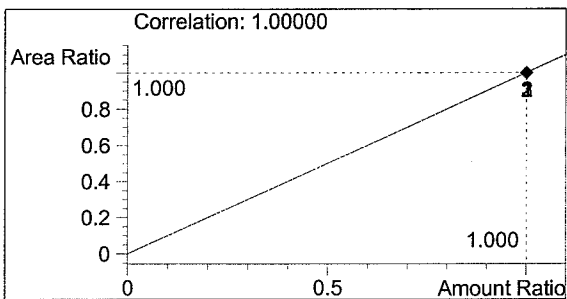


#	Compound	Area	RT
1	Ethanol	1556	1.038
2	n-Propanol	3824	1.692

Totals:



Ethanol 0.097 g/100ml

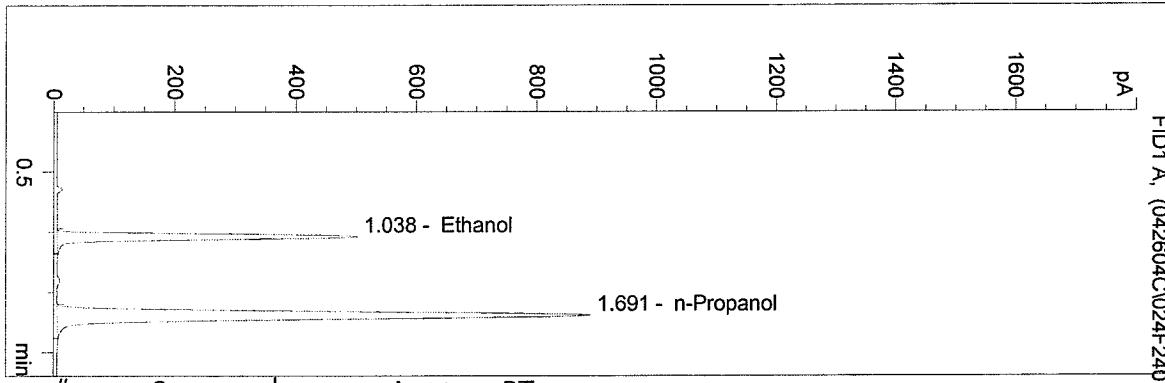


n-Propanol 1.000 g/100ml

LP
1-15-08

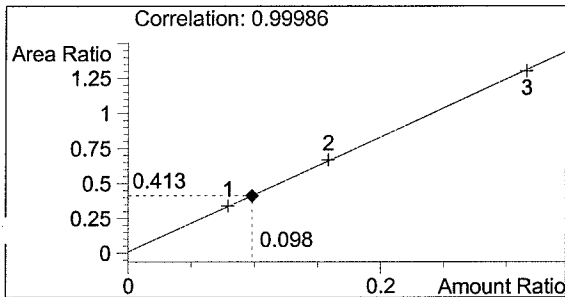
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 Instrument 2
 P:\ALC1

0.10 control
 m pemberton
 vial # 24

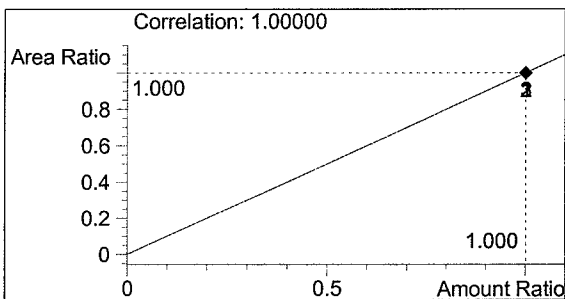


#	Compound	Area	RT
1	Ethanol	1555	1.038
2	n-Propanol	3764	1.691

Totals:



Ethanol 0.098 g/100ml



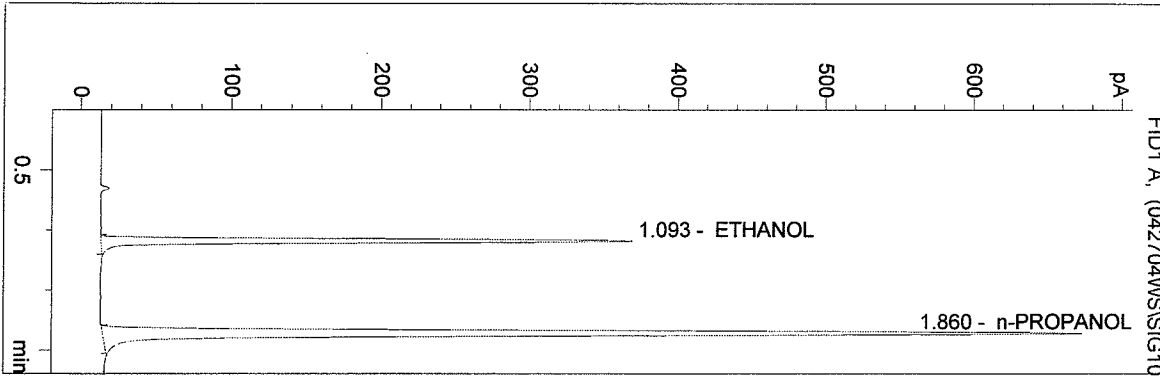
n-Propanol 1.000 g/100ml

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 4/15/04

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 Instrument 3
 PP-A1c2

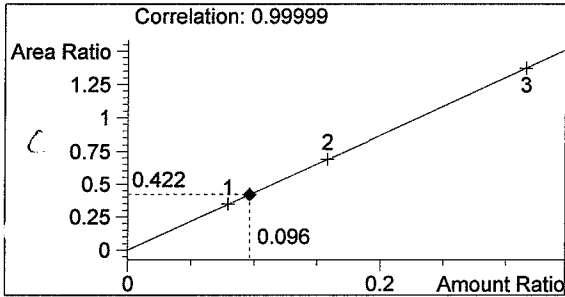
QA 04011
 WP MARSHALL

vial # 8

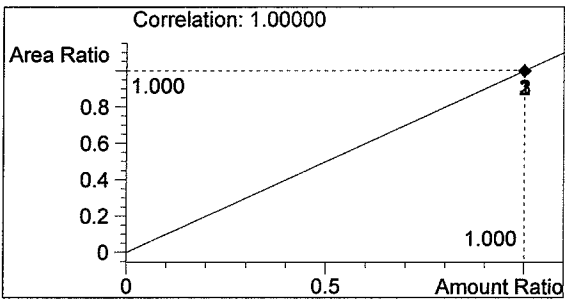


#	Compound	Area	RT
1	ETHANOL	834	1.093
2	n-PROPANOL	1978	1.860

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M

4/27/04 11:31:33 AM

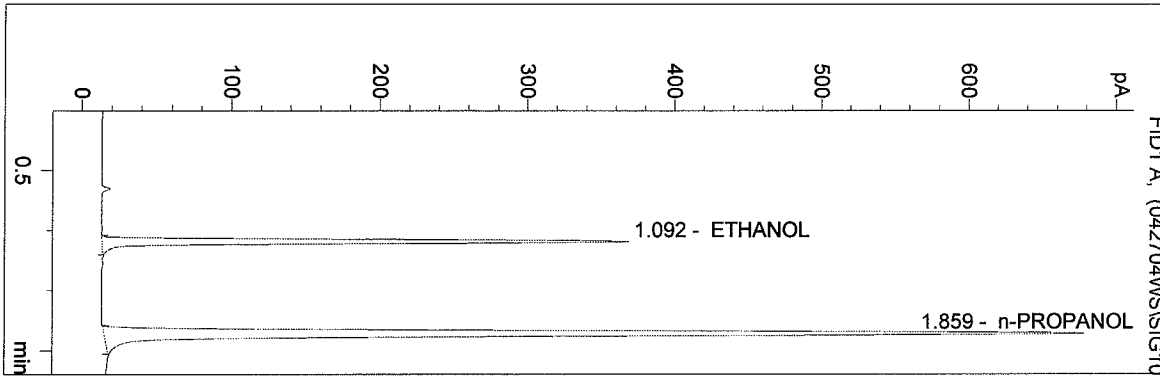
Instrument 3

PP-A1c2

QA 04011

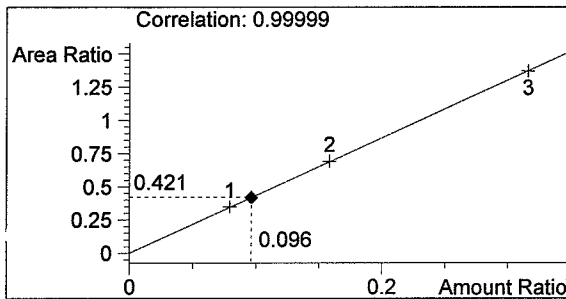
WP MARSHALL

vial # 9

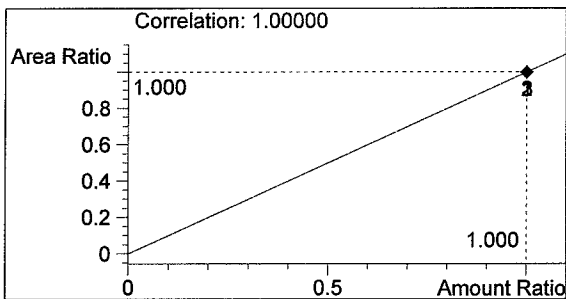


#	Compound	Area	RT
1	ETHANOL	841	1.092
2	n-PROPANOL	1996	1.859

Totals:



ETHANOL 0.096 g/100mL

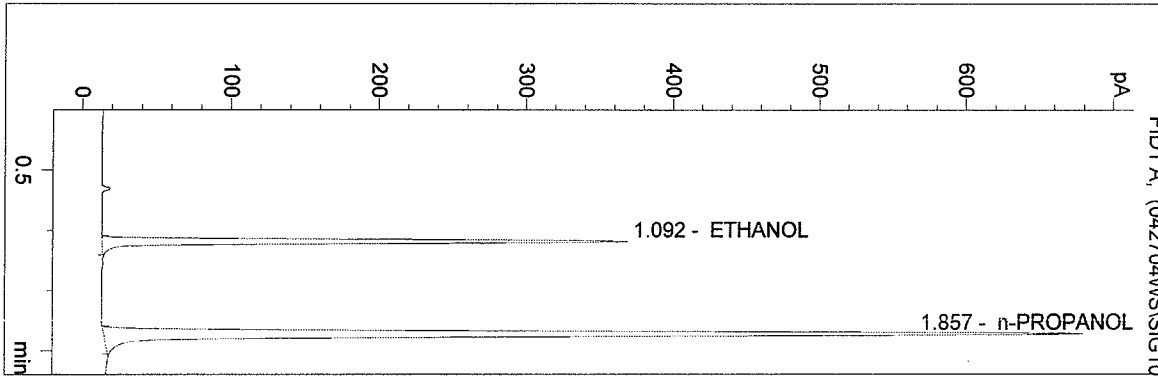


n-PROPANOL 1.000 g/100mL

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 4/27/04 11:34:39 AM
 Instrument 3
 PP-A1c2

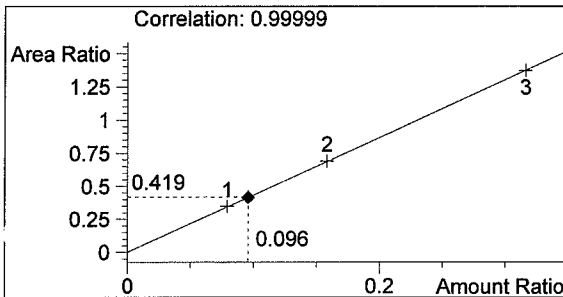
QA 04011
 WP MARSHALL

vial # 10

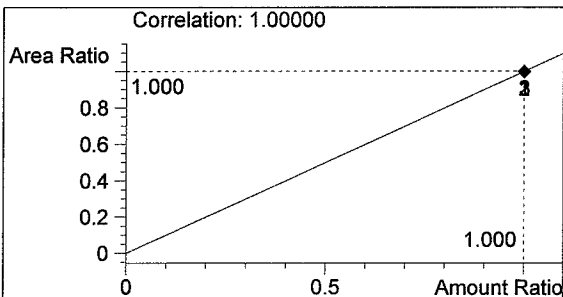


#	Compound	Area	RT
1	ETHANOL	835	1.092
2	n-PROPANOL	1994	1.857

Totals:



ETHANOL 0.096 g/100mL

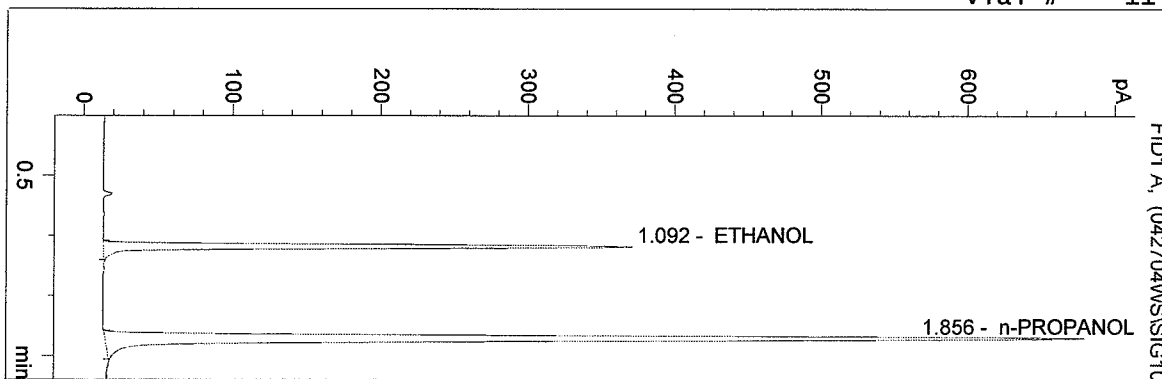


n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M
 4/27/04 11:37:46 AM
 Instrument 3
 DP-A1c2

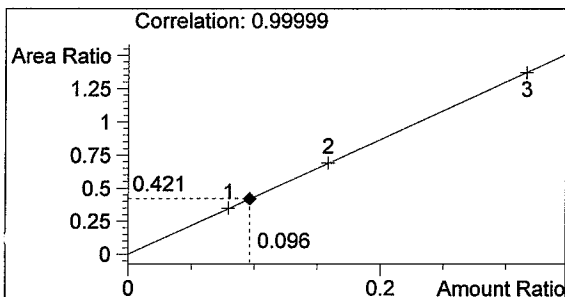
QA 04011
 WP MARSHALL

vial # 11

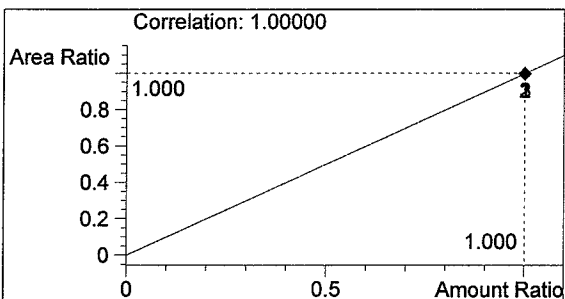


#	Compound	Area	RT
1	ETHANOL	838	1.092
2	n-PROPANOL	1992	1.856

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M

4/27/04 11:40:52 AM

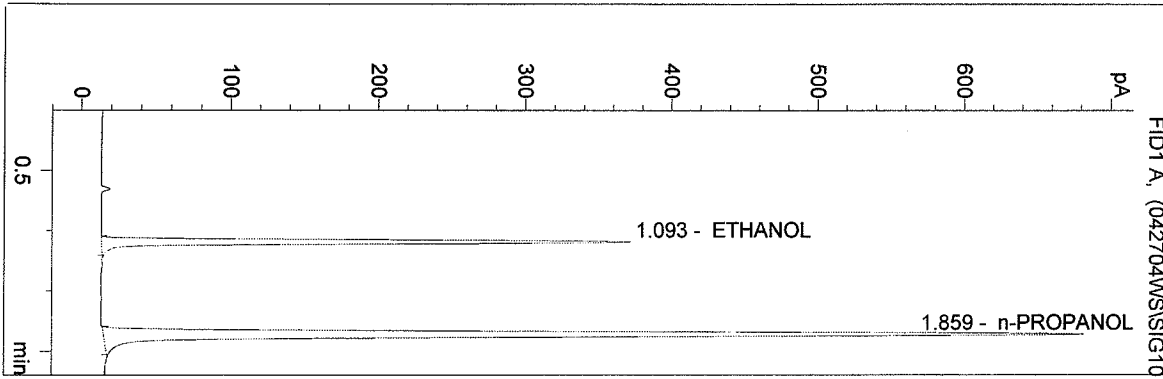
Instrument 3

DP-A1c2

QA 04011

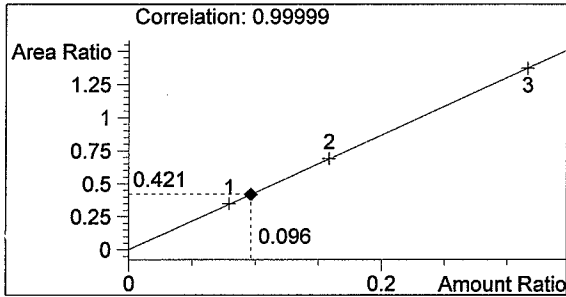
WP MARSHALL

vial # 12

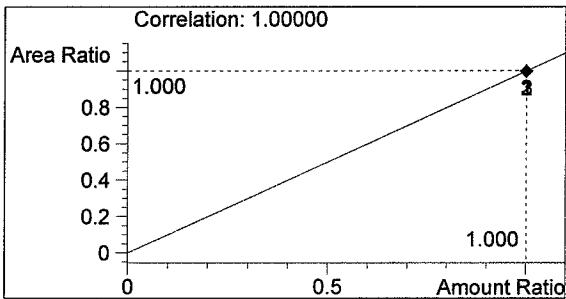


#	Compound	Area	RT
1	ETHANOL	844	1.093
2	n-PROPANOL	2005	1.859

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL