

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



Reviewer/s: KEN LENTON / ROD GULLBERG Date: 1-14-2008  
 Location: TOX LAB SEATTLE Solution Batch Number: 04010

	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 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 type="checkbox"/>	<input checked="" 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:

Reviewer Signature: *Rod Gullberg* Date: 1-14-2008  
 Reviewer Signature: *Ken Lenton* 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 **0.04** g/210L **Quality Assurance solution**

Batch number **04010**

Date: 4/21/2004

Preparation: 11.1 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	0.049	0.047	0.048									
2	0.050	0.048	0.048									
3	0.049	0.047	0.048									
4	0.050	0.047	0.047									
5	0.050	0.048	0.048									
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.: 0.0483 g/100 mL

SD: 0.00110

Range (3xSD): 0.0450 to 0.0516

Precision CV (%): 2.2786 %

*RLL*  
1-14-08

**Equivalent vapor concent.:** 0.0392 g/210L

*RLL*  
1-14-08

2.2770

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>Wm P Marshall</i>	04/27/04
4			
5			
6			
7			
8			
9			
10			
11			
12			

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

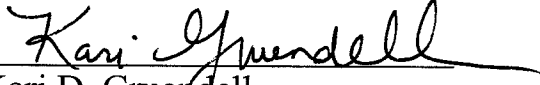
I, Kari D. Gruendell, do certify under penalty of perjury as follows:

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 04010, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0483 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

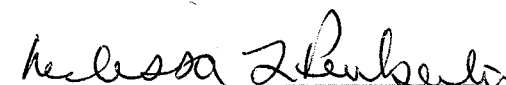
I, Melissa L. Pemberton, do certify under penalty of perjury that:

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.

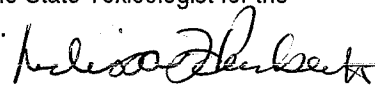
The quality assurance solution, Lot Number 04010 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0483 grams per 100ml.

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.

  
1-15-08





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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 04010 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0483 grams per 100ml.

Dated: 4/30/04  
Seattle, WA

A handwritten signature in cursive script that reads "William P. Marshall".

William P. Marshall  
Forensic Toxicologist

WM/bf  
WMQA



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

4/22/04 1:32:49 PM

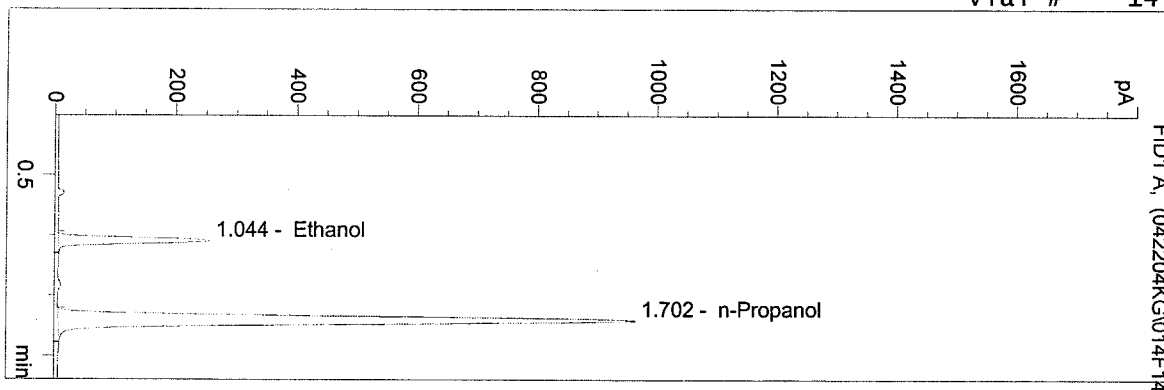
Instrument 1

PP-ALC1

QA 04010

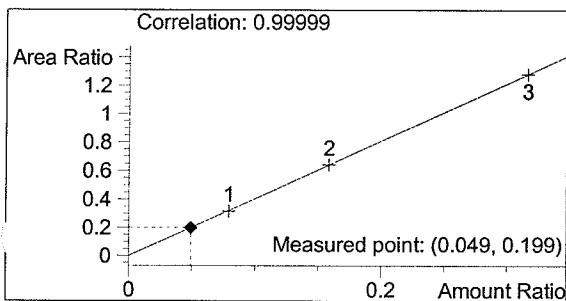
Kari Gruendell

vial # 14

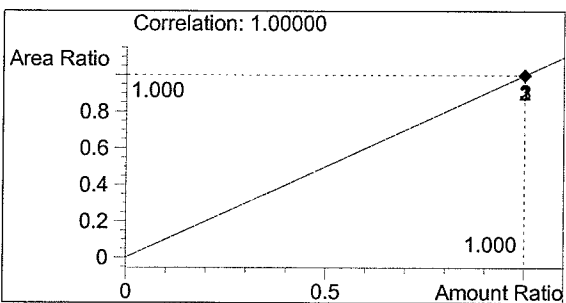


#	Compound	Area	RT
1	Ethanol	842	1.044
2	n-Propanol	4227	1.702

Totals:



Ethanol 0.049 g/100ml

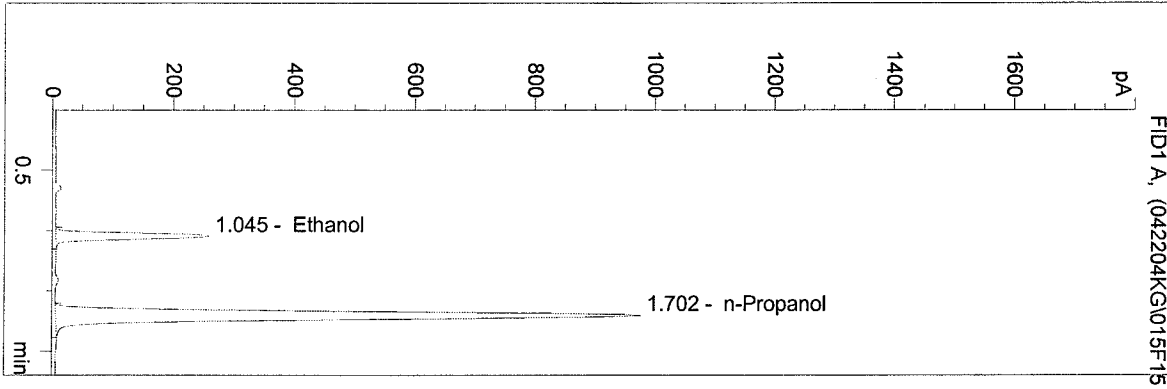


n-Propanol 1.000 g/100ml

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 Instrument 1  
 PS-ALC1

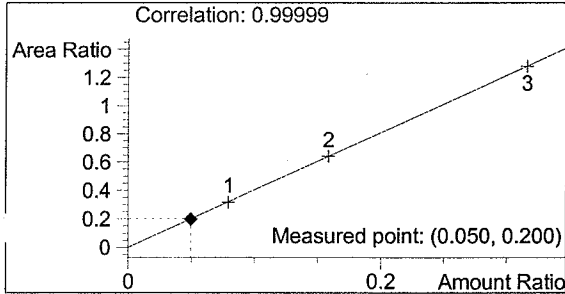
QA 04010  
 Kari Gruendell

vial # 15

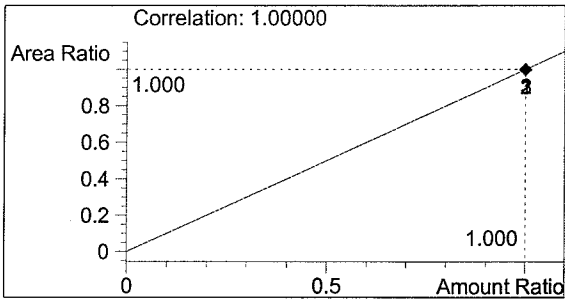


#	Compound	Area	RT
1	Ethanol	855	1.045
2	n-Propanol	4271	1.702

Totals:



Ethanol 0.050 g/100ml

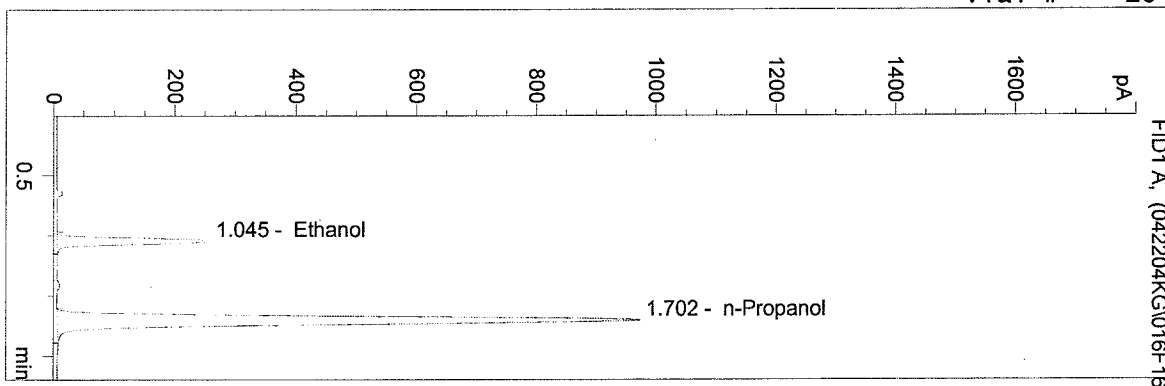


n-Propanol 1.000 g/100ml

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 Instrument 1  
 PP-ALC1

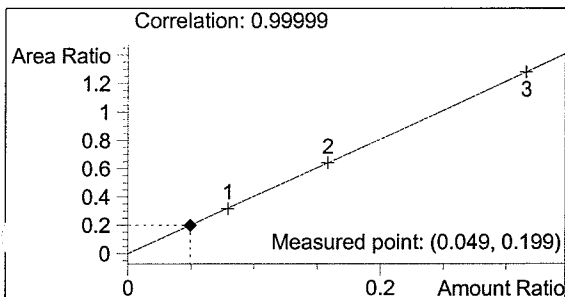
QA 04010  
 Kari Gruendell

vial # 16

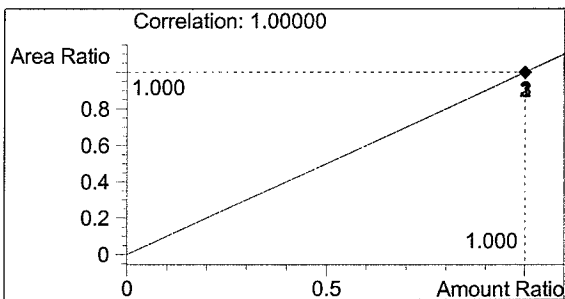


#	Compound	Area	RT
1	Ethanol	849	1.045
2	n-Propanol	4260	1.702

Totals:



Ethanol 0.049 g/100ml



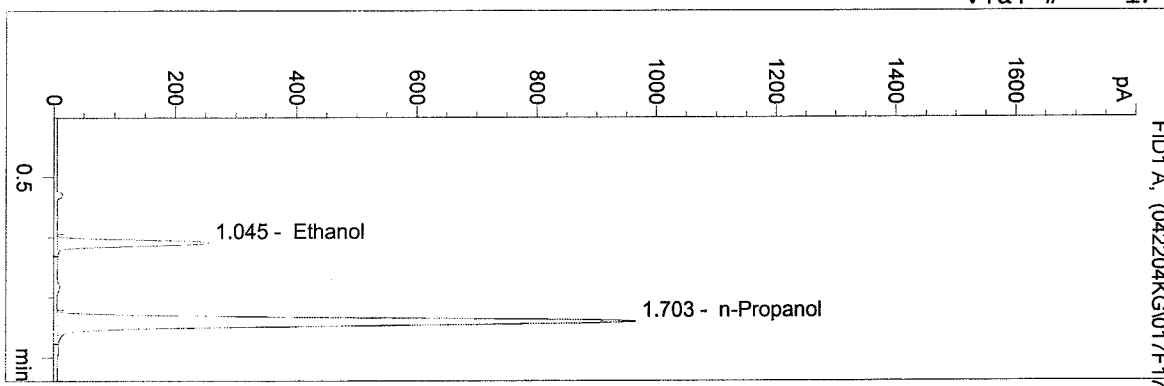
n-Propanol 1.000 g/100ml



C:\HPCHEM\1\METHODS\BLDALCO.M  
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 PP-ALC1

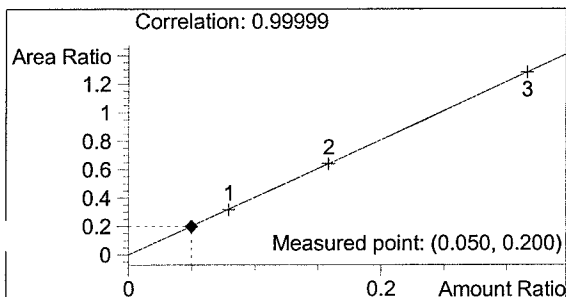
QA 04010  
 Kari Gruendell

vial # 17

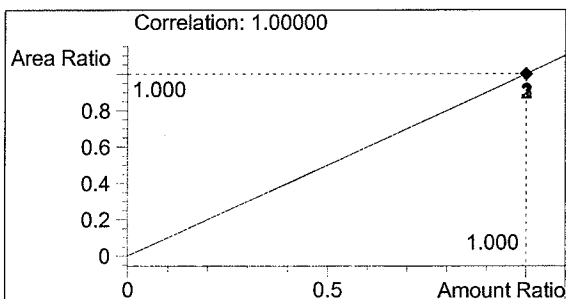


#	Compound	Area	RT
1	Ethanol	847	1.045
2	n-Propanol	4228	1.703

Totals:



Ethanol 0.050 g/100ml

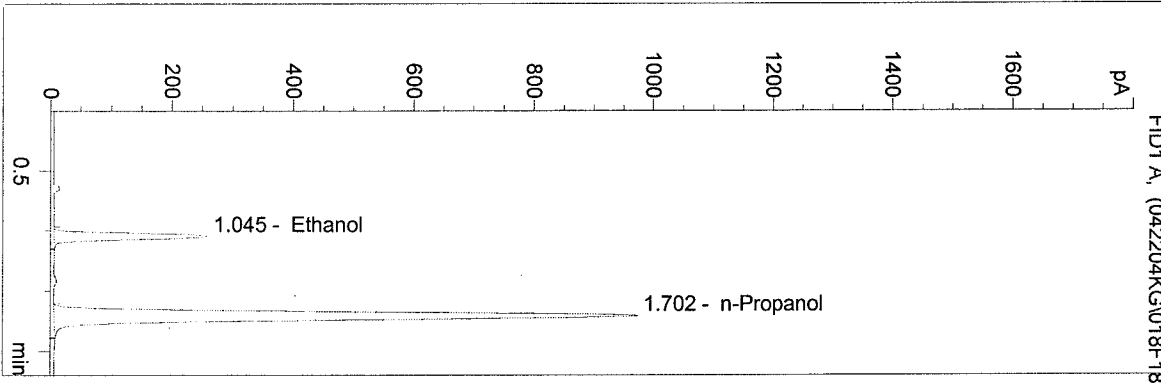


n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M  
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 Instrument 1  
 DP-ALC1

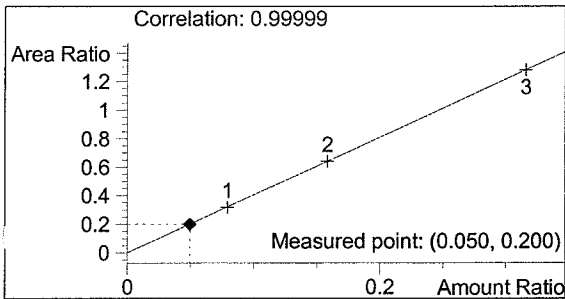
QA 04010  
 Kari Gruendell

vial # 18

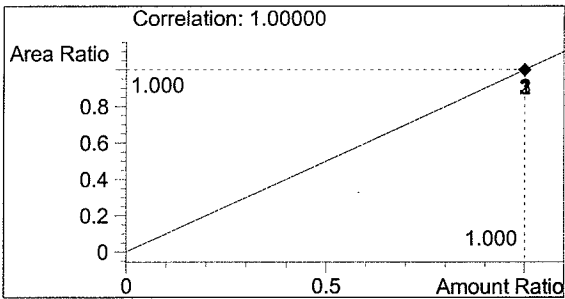


#	Compound	Area	RT
1	Ethanol	850	1.045
2	n-Propanol	4249	1.702

Totals:



Ethanol 0.050 g/100ml

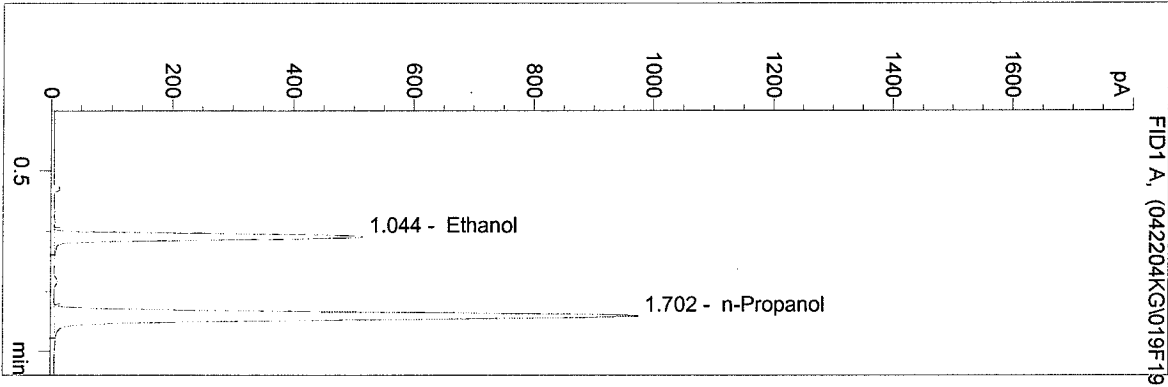


n-Propanol 1.000 g/100ml

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 Instrument 1  
 MS-ALC1

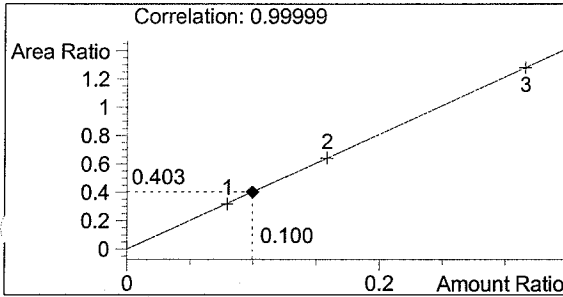
0.10 CONTROL  
 Kari Gruendell

vial # 19

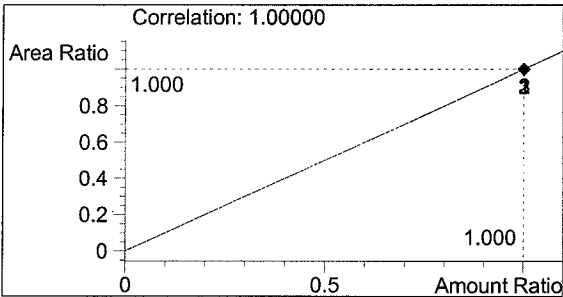


#	Compound	Area	RT
1	Ethanol	1717	1.044
2	n-Propanol	4262	1.702

Totals:



Ethanol 0.100 g/100ml

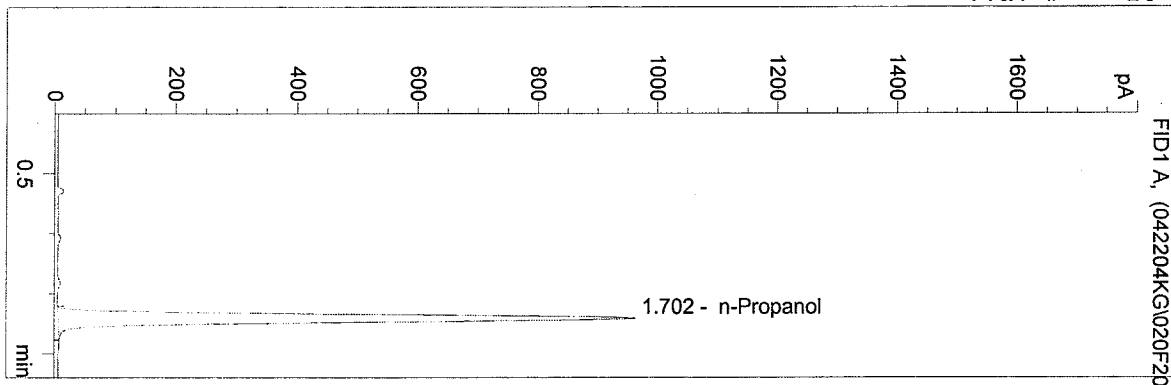


n-Propanol 1.000 g/100ml

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 4/22/04 1:51:17 PM  
 Instrument 1  
 DB-ALC1

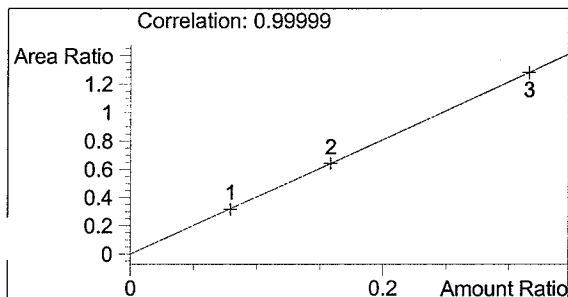
BLANK  
 Kari Gruendell

vial # 20

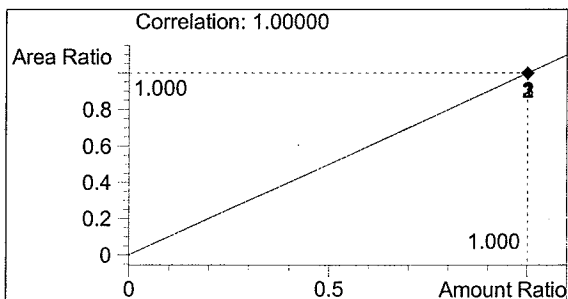


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	4207	1.702

Totals:



Ethanol 0.000 g/100ml

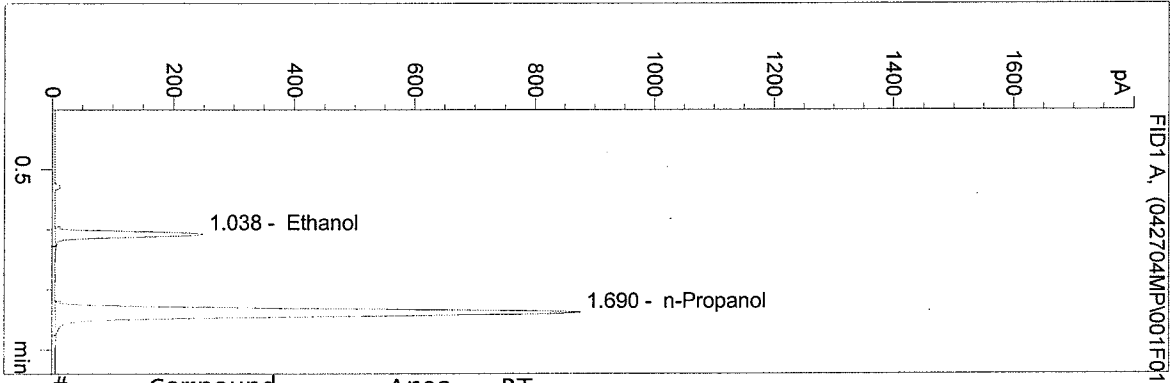


n-Propanol 1.000 g/100ml

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 Instrument 2  
 DR-ALC1

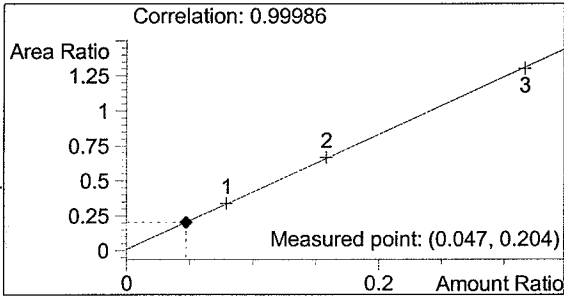
04010 0.04qa  
 m pemberton

vial # 1

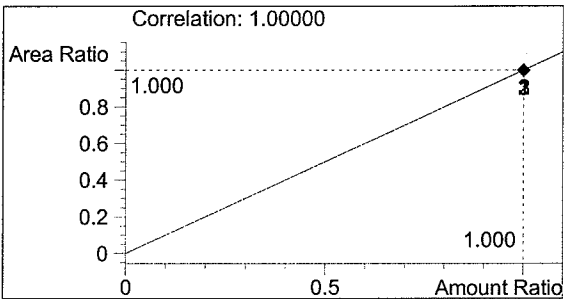


#	Compound	Area	RT
1	Ethanol	758	1.038
2	n-Propanol	3708	1.690

Totals:



Ethanol 0.047 g/100ml



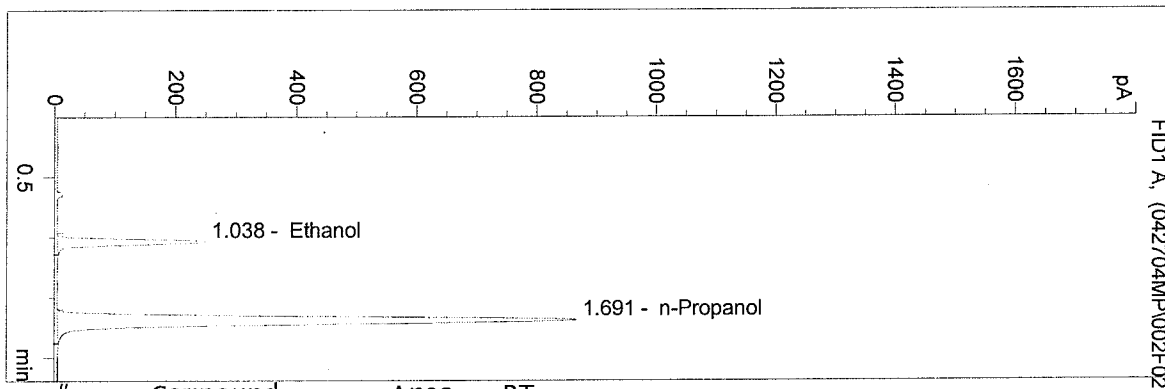
n-Propanol 1.000 g/100ml

*by*  
 1-15-08

C:\HPCHEM\2\METHODS\BLDALCO2.M  
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 DP-ALC1

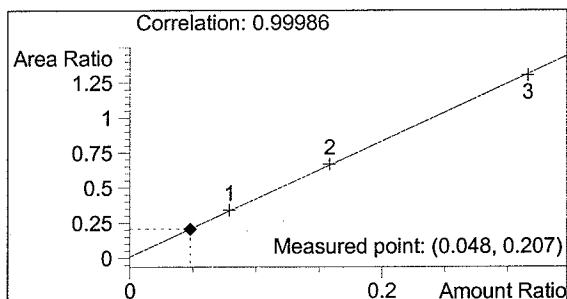
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 m pemberton

vial # 2

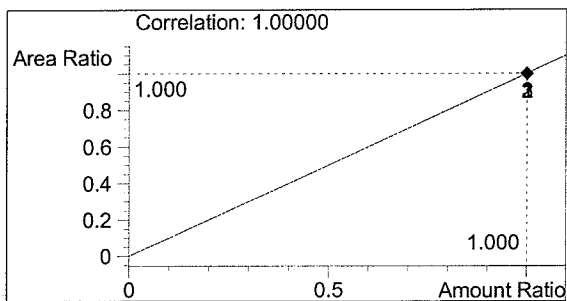


#	Compound	Area	RT
1	Ethanol	759	1.038
2	n-Propanol	3670	1.691

Totals:



Ethanol 0.048 g/100ml



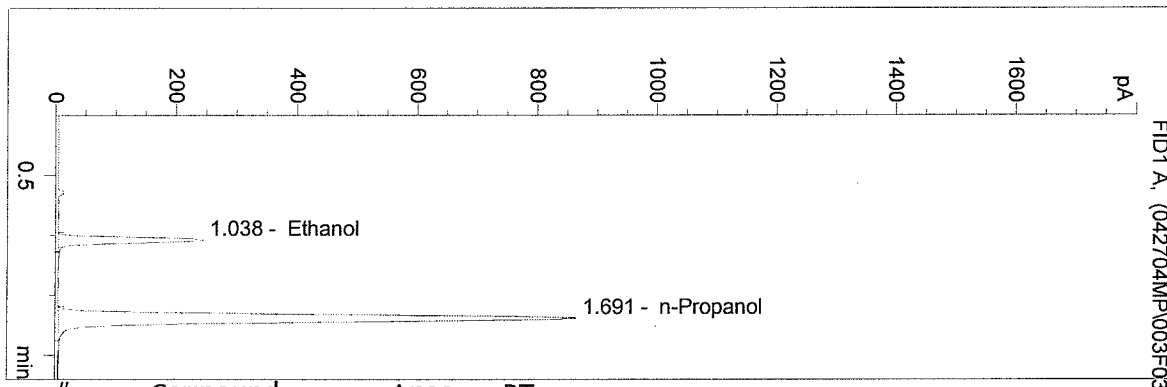
n-Propanol 1.000 g/100ml

*Handwritten signature and date:*  
 12/15-08

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 DP-ALC1

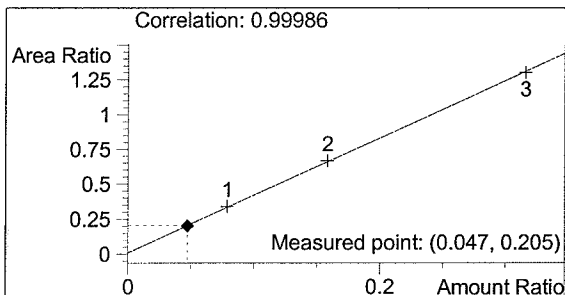
04010 0.04qa  
 m pemberton

vial # 3

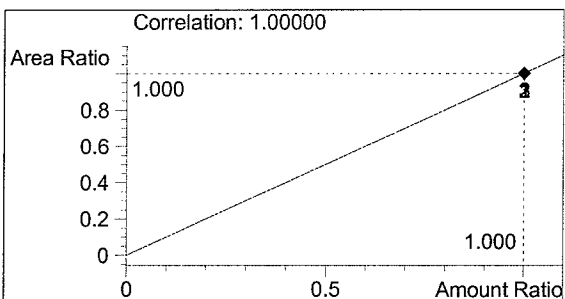


#	Compound	Area	RT
1	Ethanol	752	1.038
2	n-Propanol	3674	1.691

Totals:



Ethanol 0.047 g/100ml



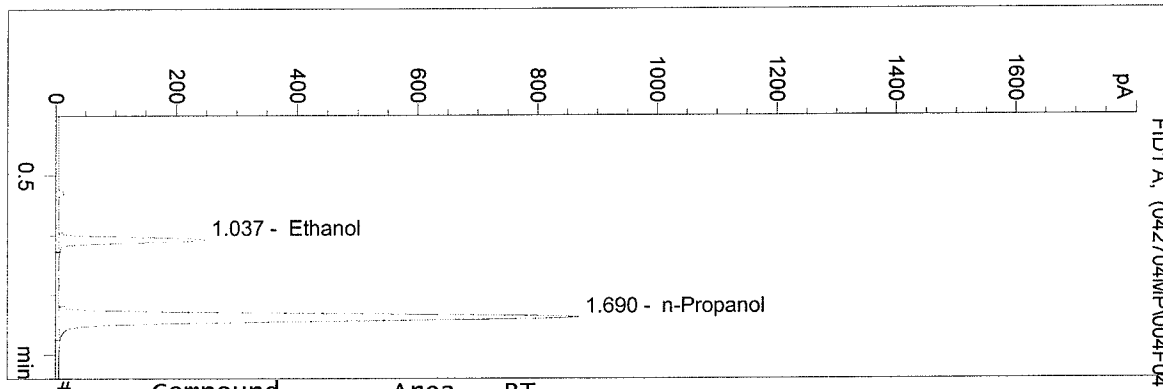
n-Propanol 1.000 g/100ml

*Handwritten:*  
 hD  
 1-15-JR

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 Instrument 2  
 DP-ALC1

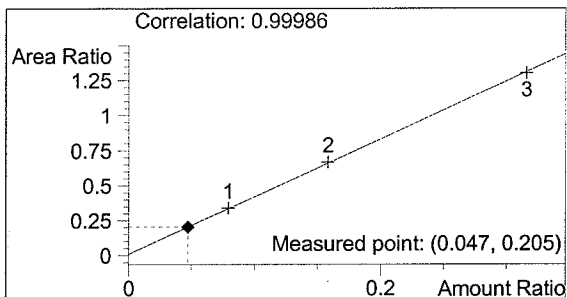
04010 0.04qa  
 m pemberton

vial # 4

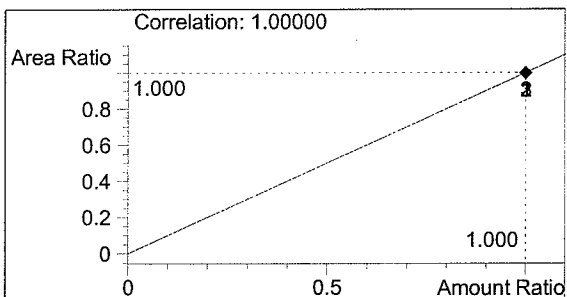


#	Compound	Area	RT
1	Ethanol	752	1.037
2	n-Propanol	3678	1.690

Totals:



Ethanol 0.047 g/100ml



n-Propanol 1.000 g/100ml

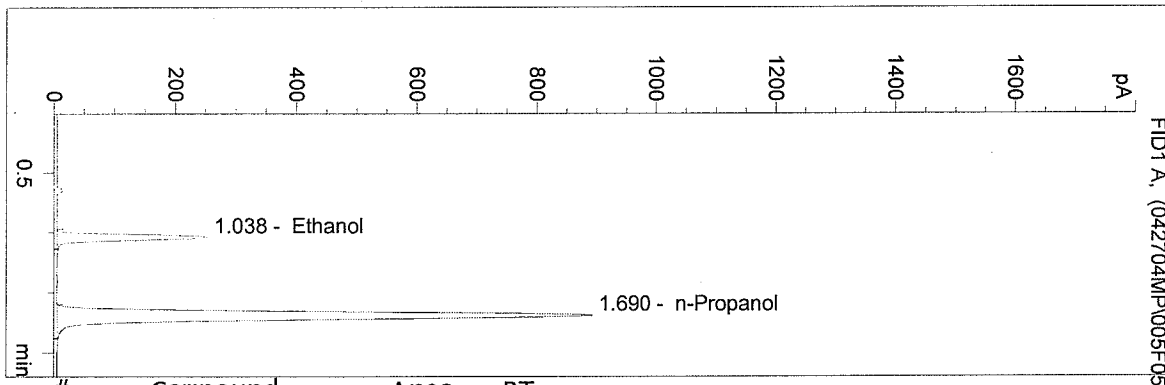
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 PP-ALC1

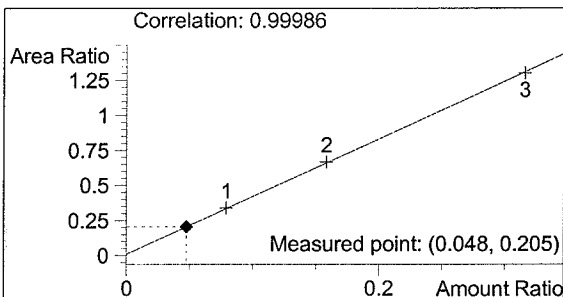
04010 0.04qa  
 m pemberton

vial # 5

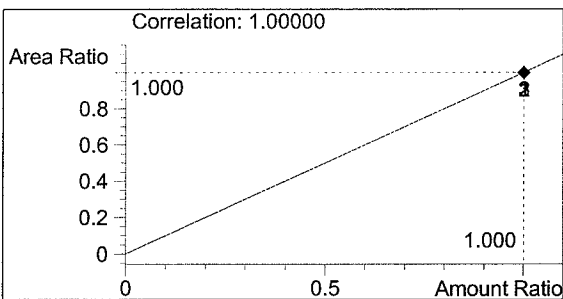


#	Compound	Area	RT
1	Ethanol	775	1.038
2	n-Propanol	3774	1.690

Totals:



Ethanol 0.048 g/100ml



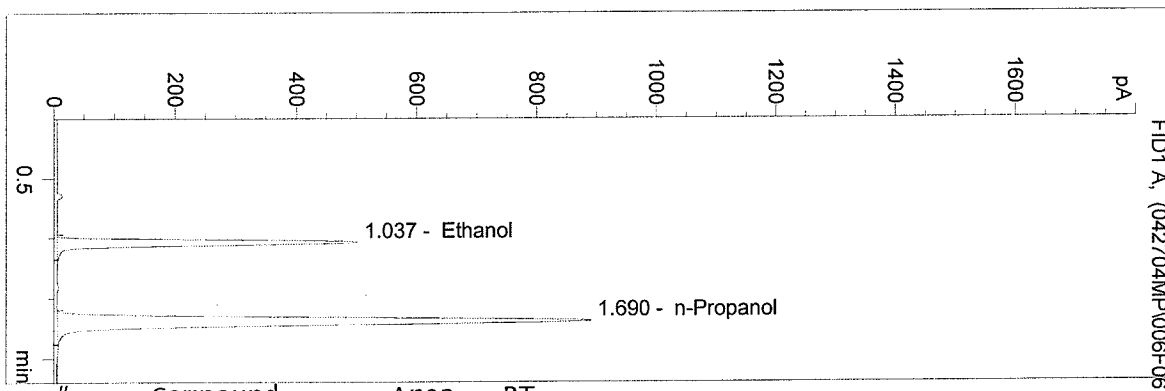
n-Propanol 1.000 g/100ml

*Handwritten signature and date:*  
 1-15-04

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 DP-ALC1

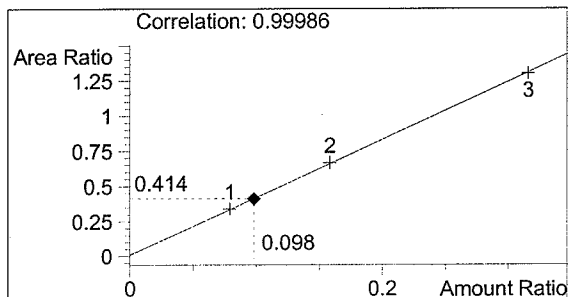
0.10 control  
 m pemberton

vial # 6

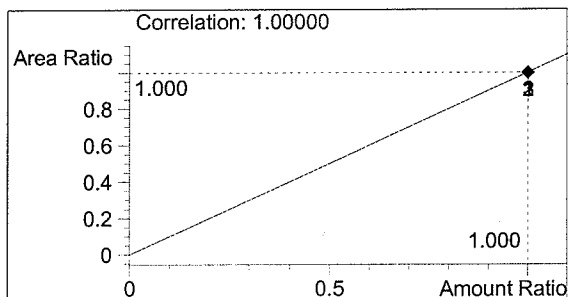


#	Compound	Area	RT
1	Ethanol	1559	1.037
2	n-Propanol	3769	1.690

Totals:



Ethanol 0.098 g/100ml

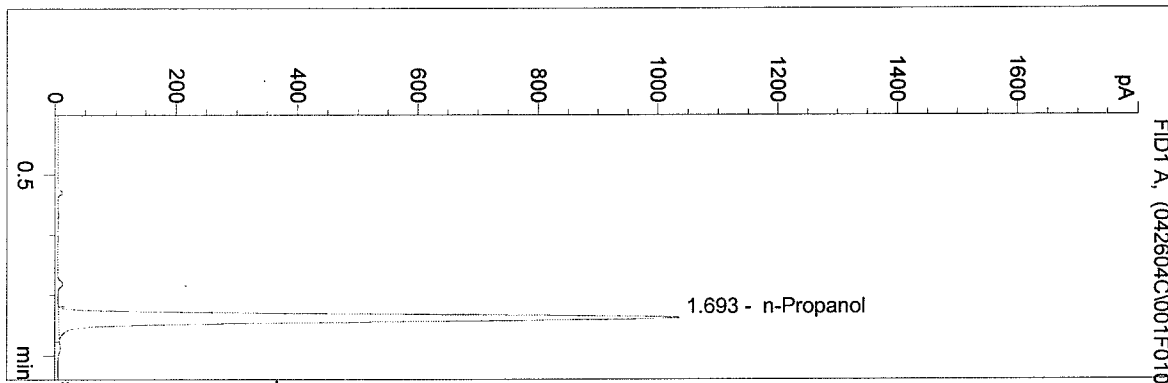


n-Propanol 1.000 g/100ml

*Handwritten signature and date:*  
 4-15-04

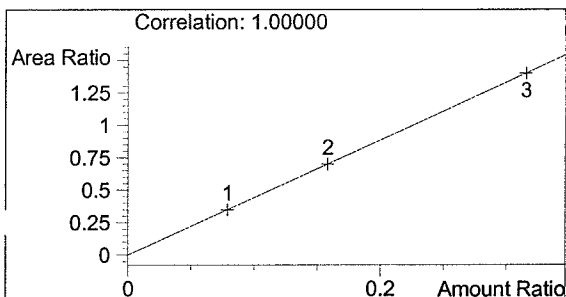
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 4/26/04 9:23:07 AM  
 Instrument 2  
 ALC1

BLK  
 m pemberton  
 vial # 1

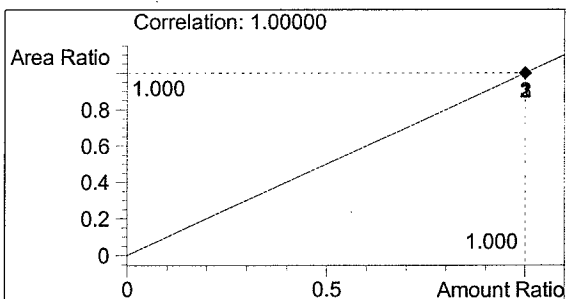


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	4372	1.693

Totals:



Ethanol 0.000 g/100ml



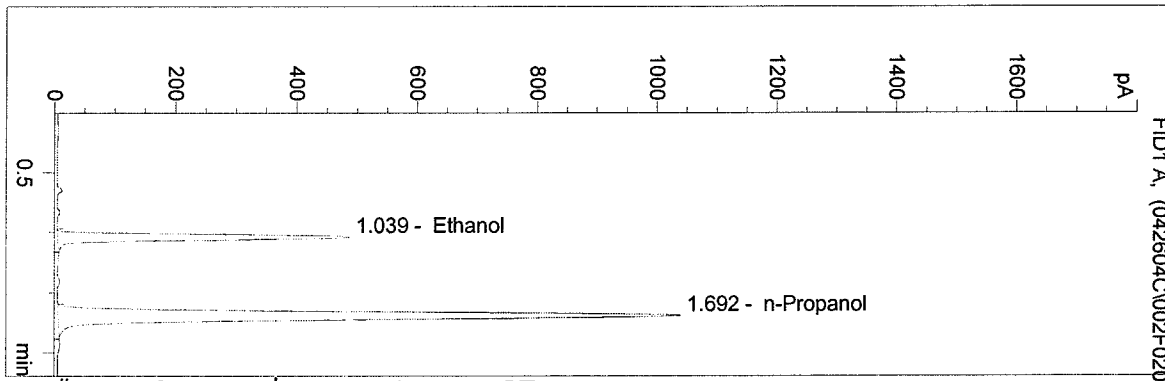
n-Propanol 1.000 g/100ml

*HP*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:26:20 AM  
 Instrument 2  
 ALC1

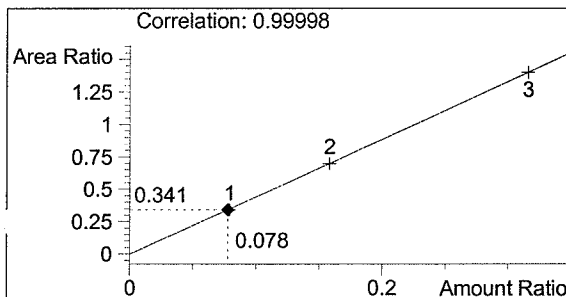
0.079 CAL  
 m pembedon

vial # 2

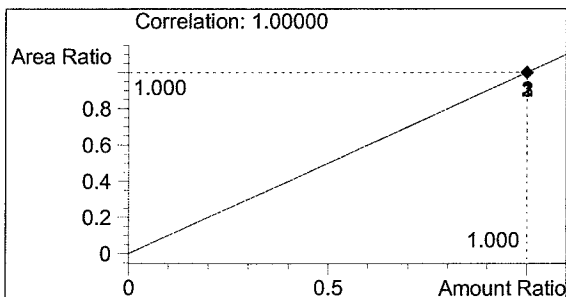


#	Compound	Area	RT
1	Ethanol	1499	1.039
2	n-Propanol	4390	1.692

Totals:



Ethanol 0.078 g/100ml



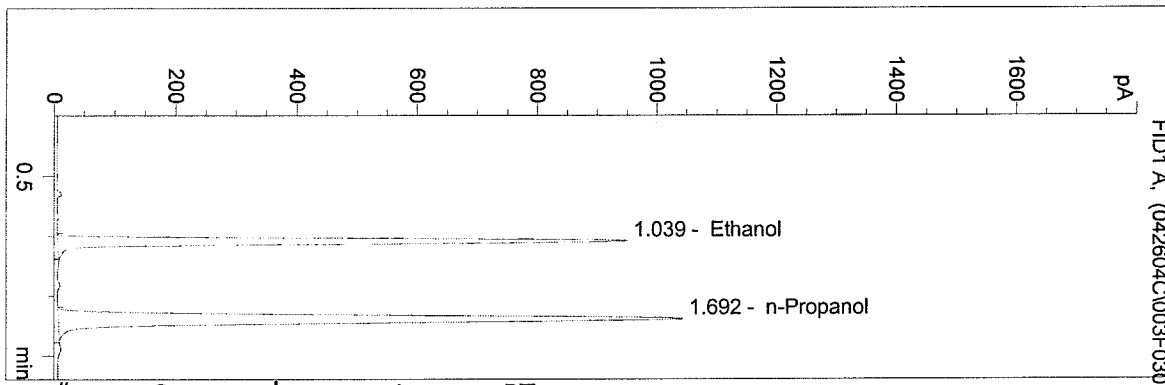
n-Propanol 1.000 g/100ml

*Handwritten signature*  
 1-15-04

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:29:38 AM  
 Instrument 2  
 ALC1

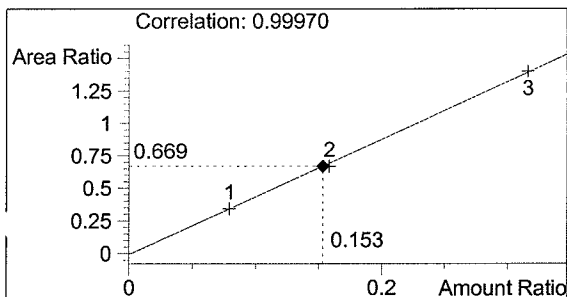
0.158 CAL  
 m pemberton

vial # 3

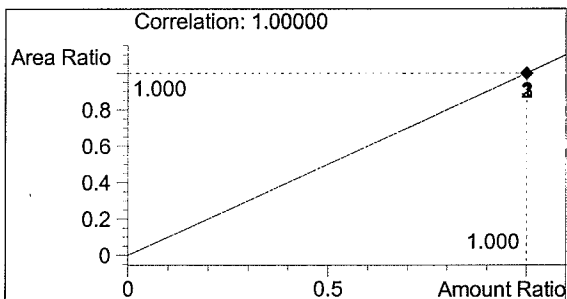


#	Compound	Area	RT
1	Ethanol	2950	1.039
2	n-Propanol	4409	1.692

Totals:



Ethanol 0.153 g/100ml



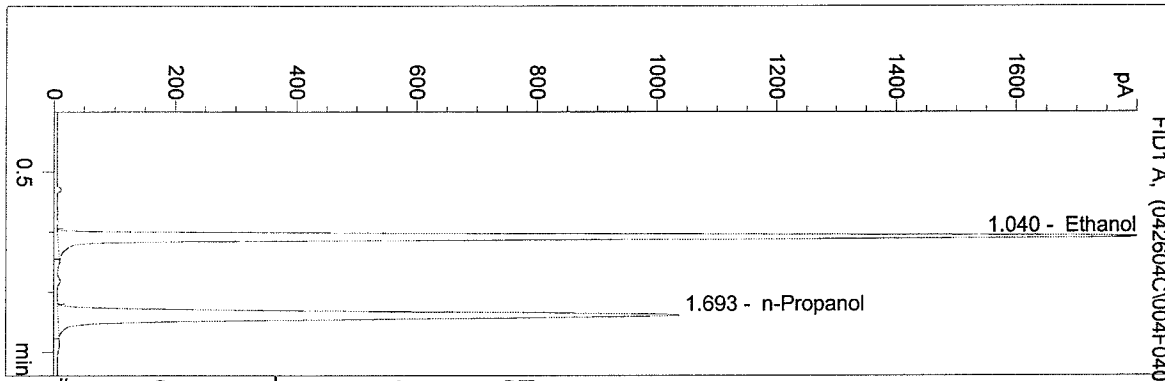
n-Propanol 1.000 g/100ml

*Handwritten signature*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:32:55 AM  
 Instrument 2  
 ALC1

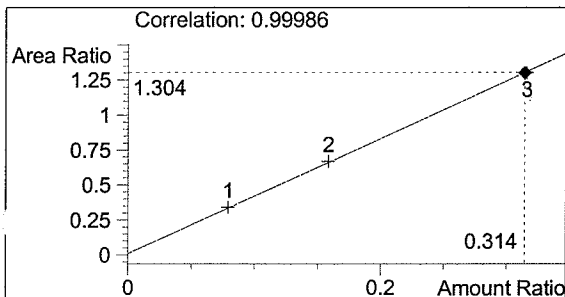
0.316 CAL  
 m pemberton

vial # 4

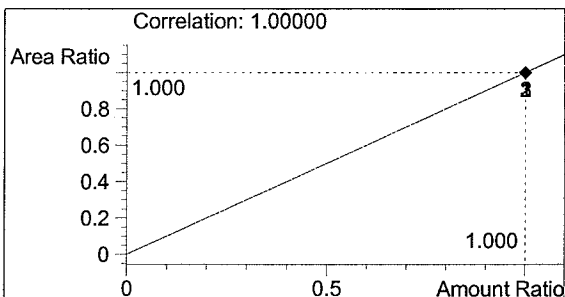


#	Compound	Area	RT
1	Ethanol	5707	1.040
2	n-Propanol	4376	1.693

Totals:



Ethanol 0.314 g/100ml



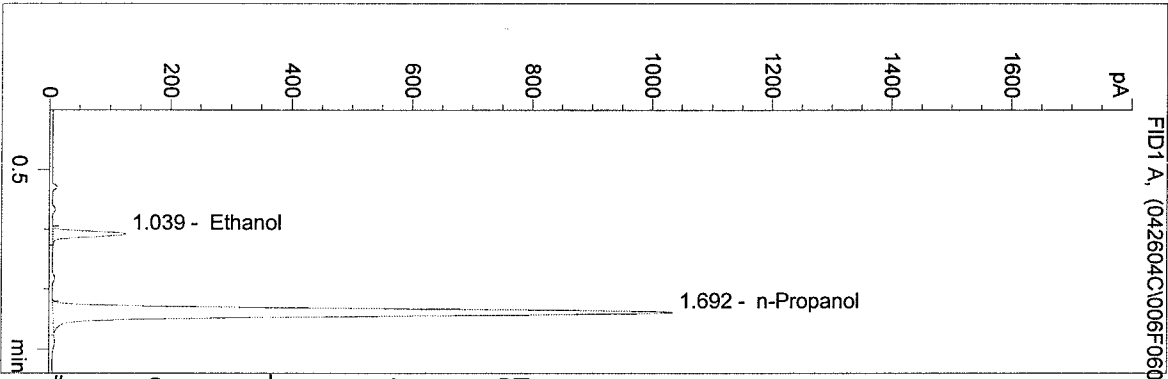
n-Propanol 1.000 g/100ml

*Handwritten signature*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:39:43 AM  
 Instrument 2  
 ALC1

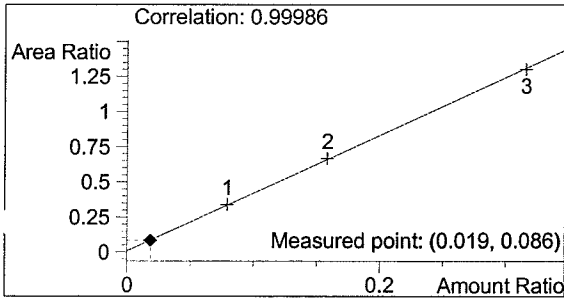
0.02 std  
 m pemberton

vial # 6

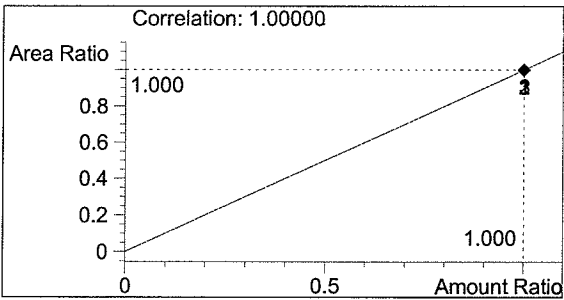


#	Compound	Area	RT
1	Ethanol	375	1.039
2	n-Propanol	4368	1.692

Totals:



Ethanol 0.019 g/100ml



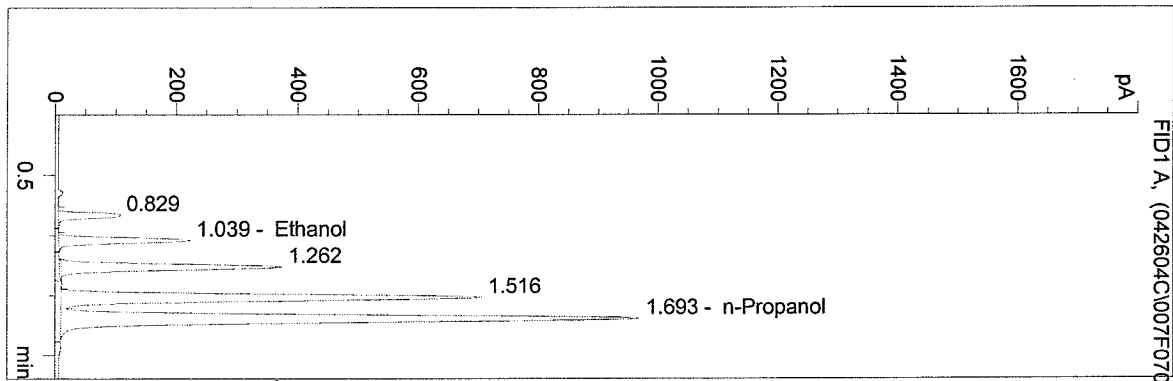
n-Propanol 1.000 g/100ml

*Handwritten signature*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:42:47 AM  
 Instrument 2  
 ALC1

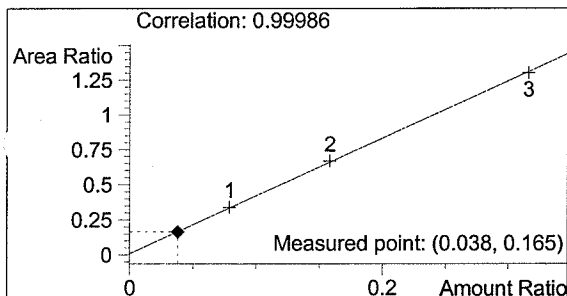
0.04 mix std  
 m pemberton

vial # 7

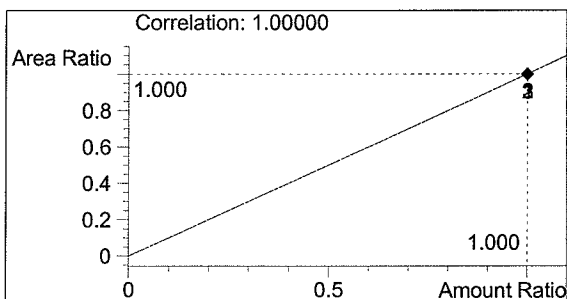


#	Compound	Area	RT
1		323	0.829
2	Ethanol	672	1.039
3		1257	1.262
4		2590	1.516
5	n-Propanol	4076	1.693

Totals:



Ethanol 0.038 g/100ml



n-Propanol 1.000 g/100ml

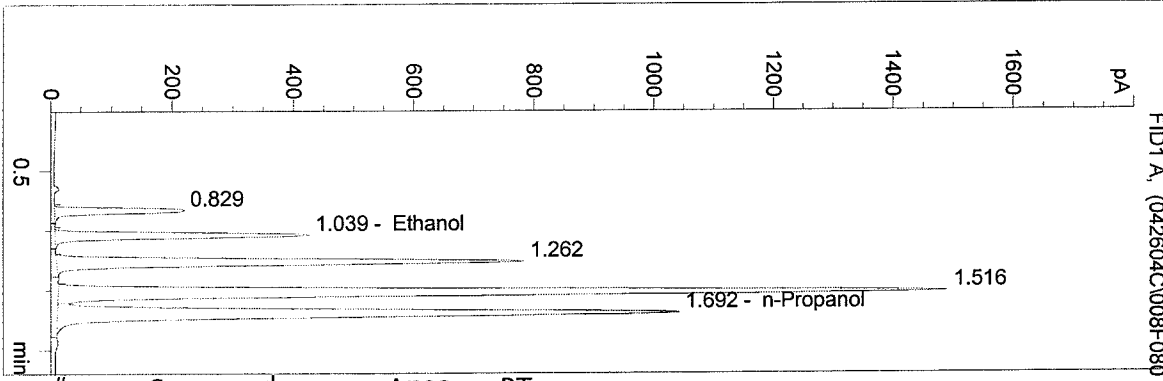
*Handwritten signature*



C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:45:52 AM  
 Instrument 2  
 ALC1

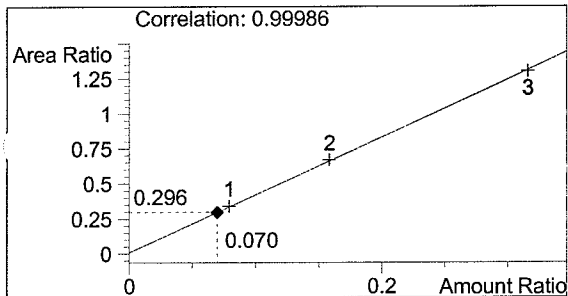
0.08 mix std  
 m pemberton

vial # 8

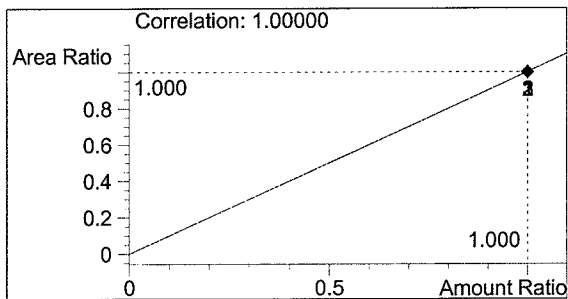


#	Compound	Area	RT
1		678	0.829
2	Ethanol	1299	1.039
3		2677	1.262
4		5519	1.516
5	n-Propanol	4382	1.692

Totals:



Ethanol 0.070 g/100ml



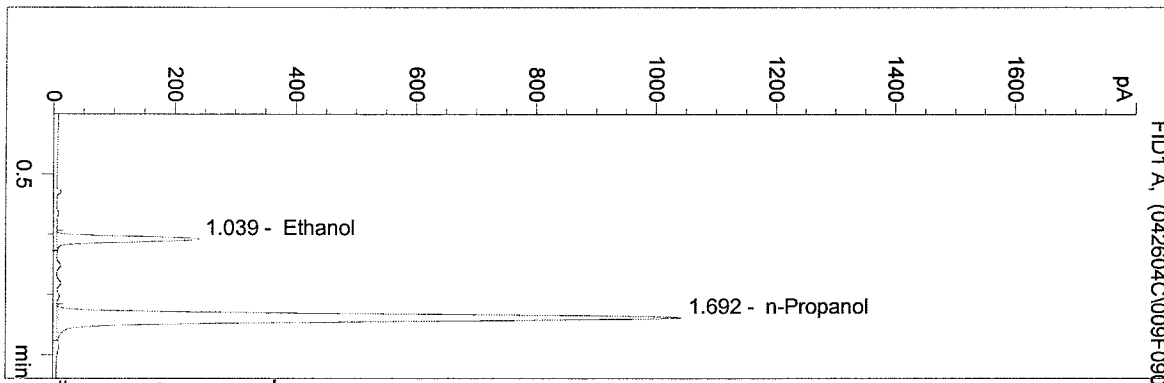
n-Propanol 1.000 g/100ml

*Handwritten signature*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:48:57 AM  
 Instrument 2  
 ALC1

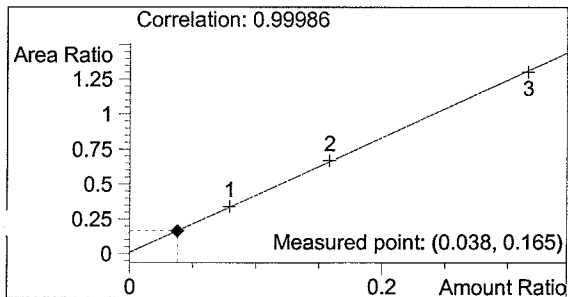
0.04 CONTROL  
 m pemberton

vial # 9

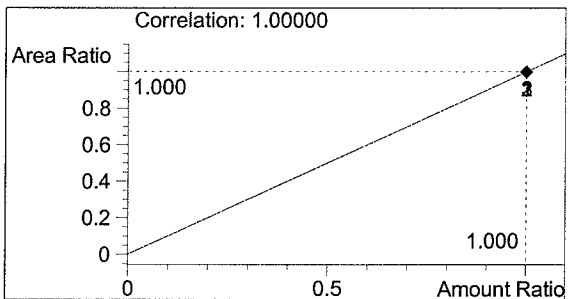


#	Compound	Area	RT
1	Ethanol	729	1.039
2	n-Propanol	4407	1.692

Totals:



Ethanol 0.038 g/100ml



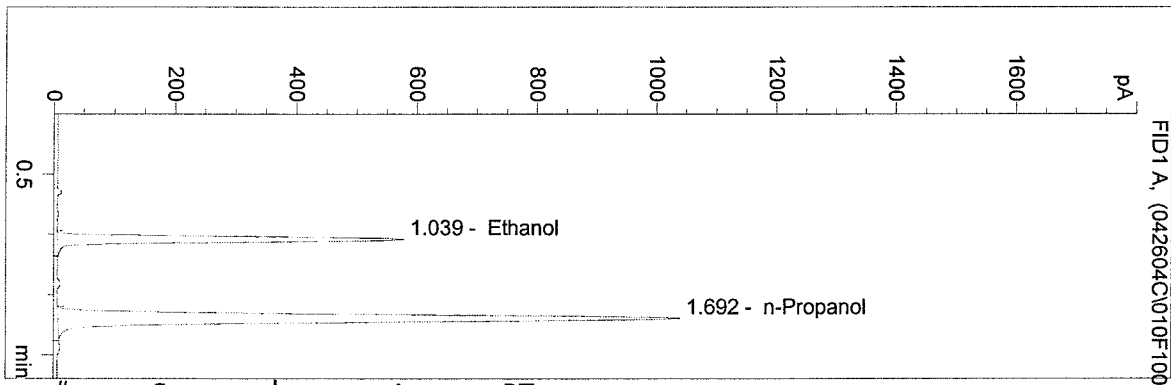
n-Propanol 1.000 g/100ml

*Handwritten signature*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:52:01 AM  
 Instrument 2  
 ALC1

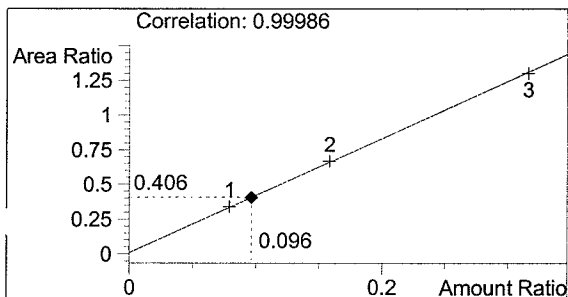
0.10 ml  
~~0.20~~ CONTROL  
 m pemberton

vial # 10

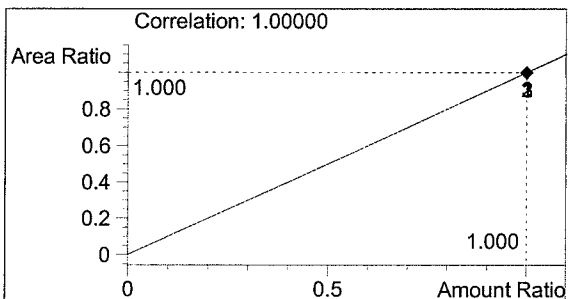


#	Compound	Area	RT
1	Ethanol	1783	1.039
2	n-Propanol	4391	1.692

Totals:



Ethanol 0.096 g/100ml



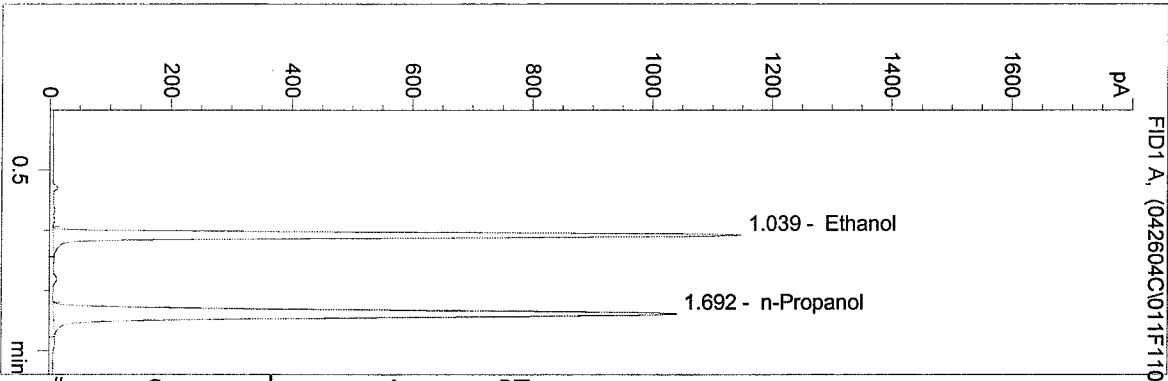
n-Propanol 1.000 g/100ml

*MP*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:55:06 AM  
 Instrument 2  
 ALC1

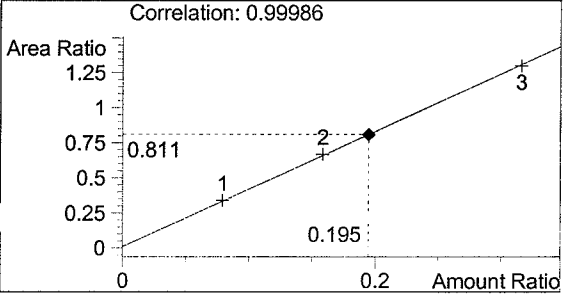
*sp*  
 0.20 CONTROL  
 m pemberton

vial # 11

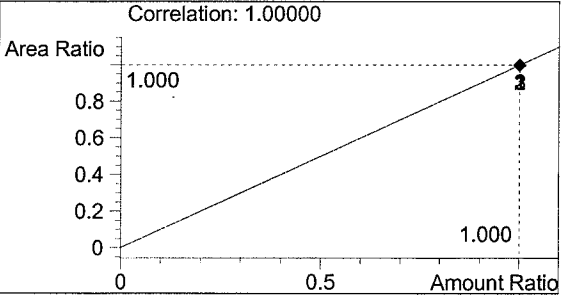


#	Compound	Area	RT
1	Ethanol	3561	1.039
2	n-Propanol	4393	1.692

Totals:



Ethanol 0.195 g/100ml

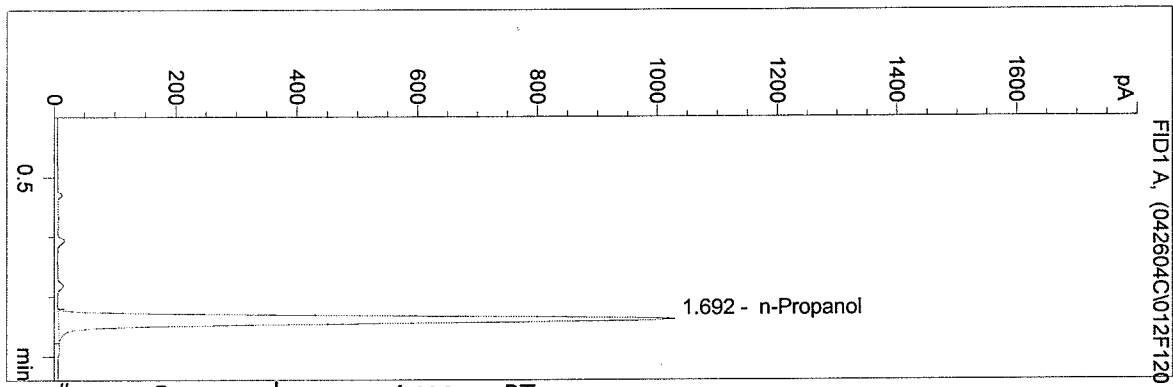


n-Propanol 1.000 g/100ml

*sp*

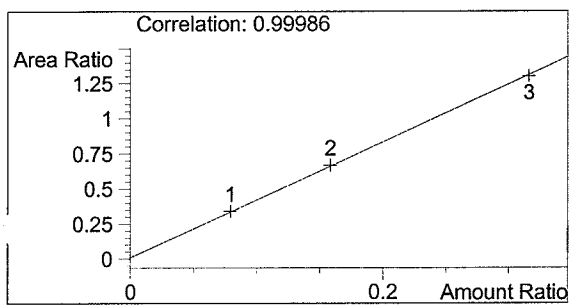
C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 9:58:11 AM  
 Instrument 2  
 ALC1

BLK  
 m pemberton  
 vial # 12

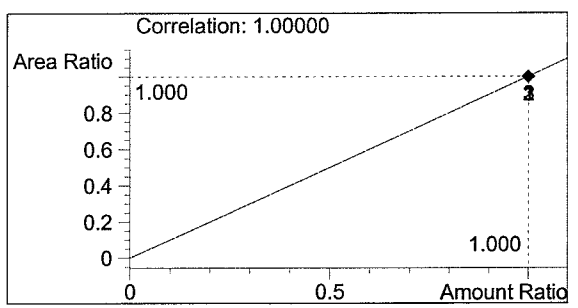


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	4349	1.692

Totals:



Ethanol 0.000 g/100ml

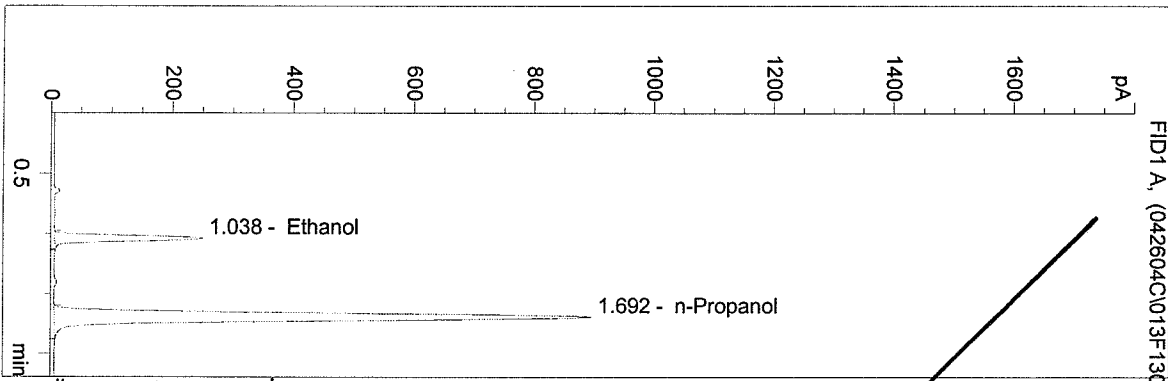


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 10:01:15 AM  
 Instrument 2  
 ALC1

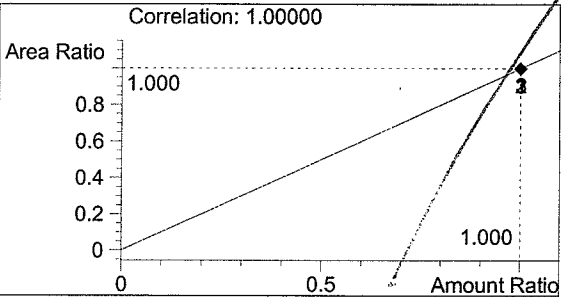
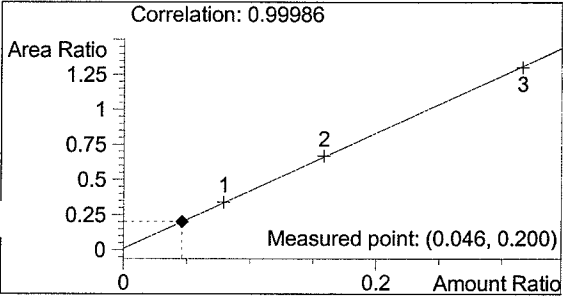
04010 0.04qa  
 m pemberton

vial # 13



#	Compound	Area	RT
1	Ethanol	760	1.038
2	n-Propanol	3792	1.692

Totals:



Ethanol

0.046 g/100ml

n-Propanol

1.000 g/100ml

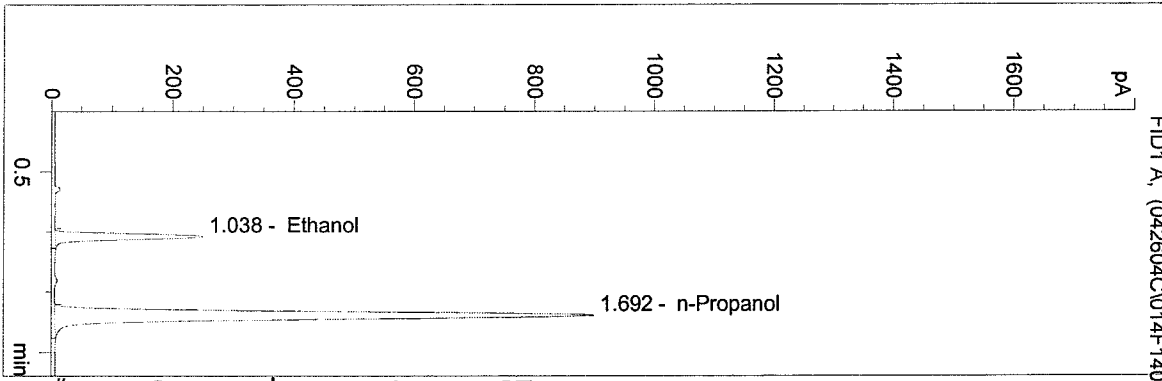
*Results not used  
 n-propanol  
 are tested  
 4/26/04*

*W*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 10:04:20 AM  
 Instrument 2  
 -ALC1

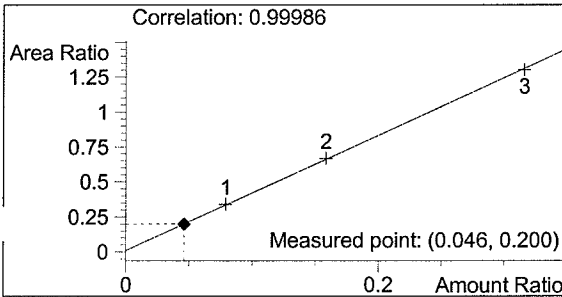
04010 0.04qa  
 m pemberton

vial # 14

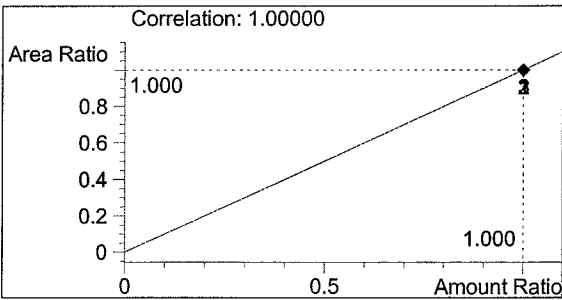


#	Compound	Area	RT
1	Ethanol	762	1.038
2	n-Propanol	3809	1.692

Totals:



Ethanol 0.046 g/100ml



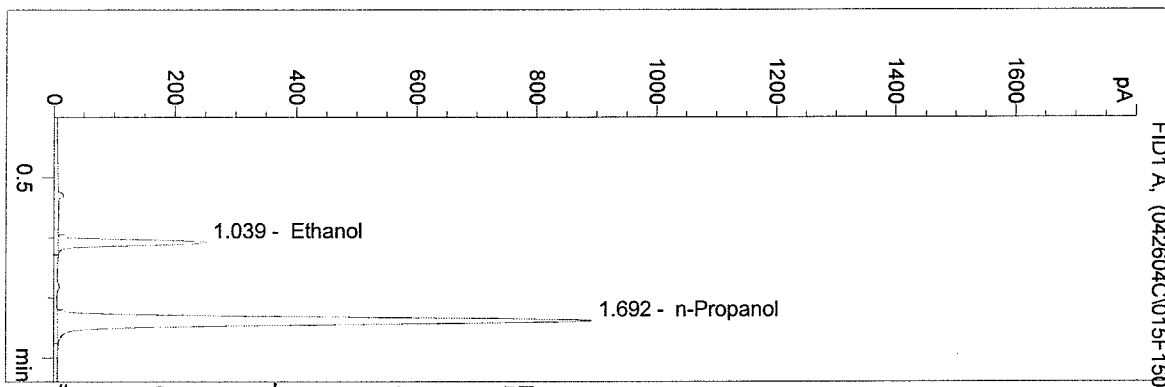
n-Propanol 1.000 g/100ml

*Handwritten signature*

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 10:07:24 AM  
 Instrument 2  
 ALC1

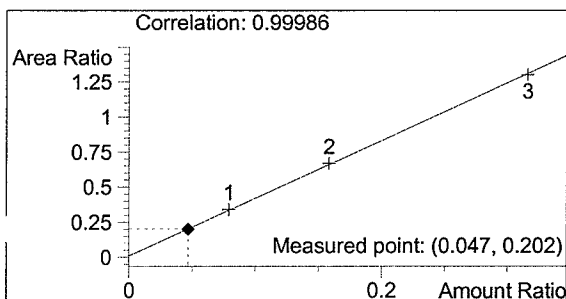
04010 0.04qa  
 m pemberton

vial # 15

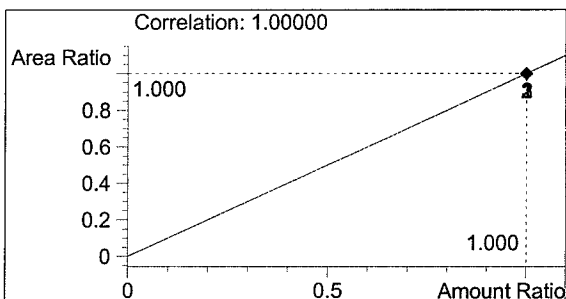


#	Compound	Area	RT
1	Ethanol	763	1.039
2	n-Propanol	3777	1.692

Totals:



Ethanol 0.047 g/100ml



n-Propanol 1.000 g/100ml

*Handwritten signature*



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

4/26/04 10:10:29 AM

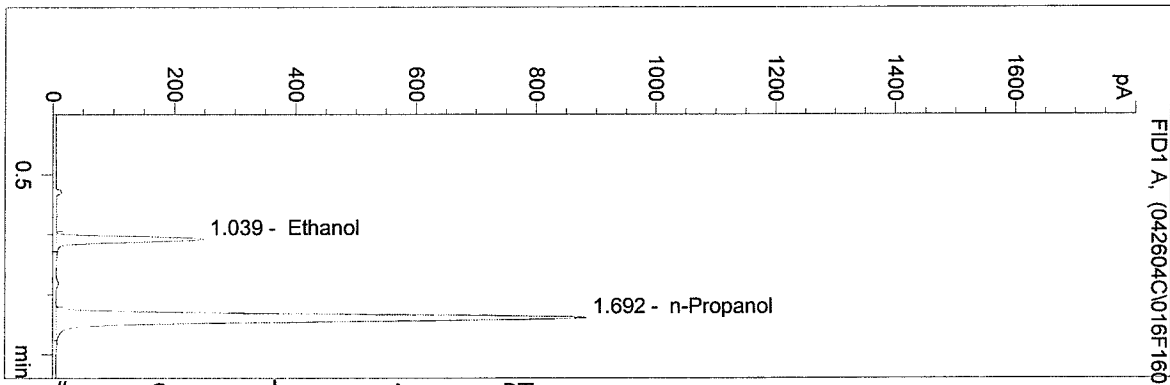
Instrument 2

ALC1

04010 0.04qa

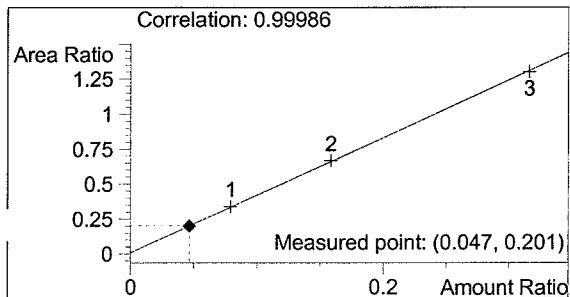
m pemberton

vial # 16

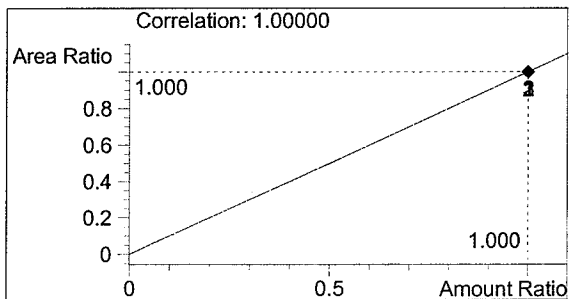


#	Compound	Area	RT
1	Ethanol	754	1.039
2	n-Propanol	3746	1.692

Totals:



Ethanol 0.047 g/100ml

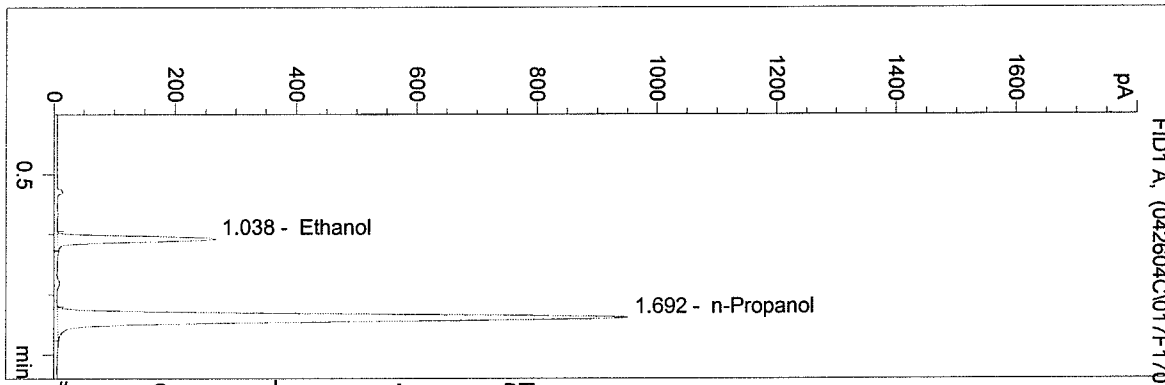


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 10:13:34 AM  
 Instrument 2  
 ALC1

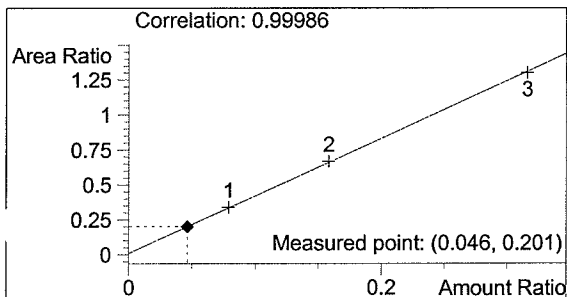
04010 0.04qa  
 m pemberton

vial # 17

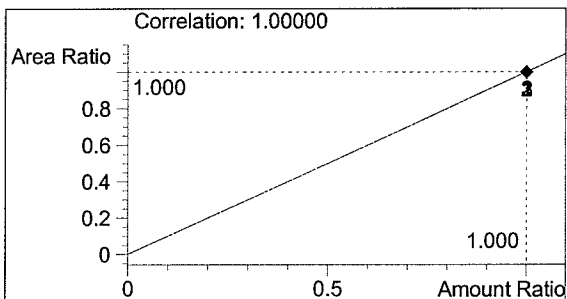


#	Compound	Area	RT
1	Ethanol	809	1.038
2	n-Propanol	4027	1.692

Totals:



Ethanol 0.046 g/100ml

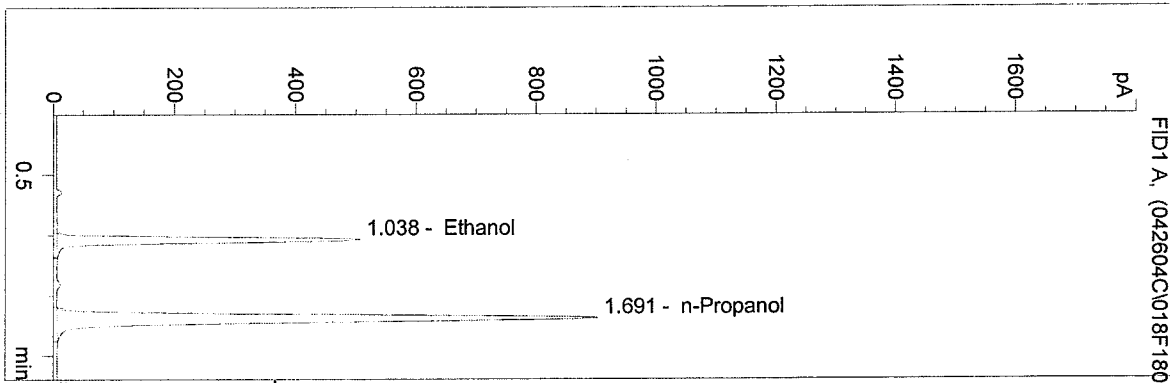


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 4/26/04 10:16:38 AM  
 Instrument 2  
 ALC1

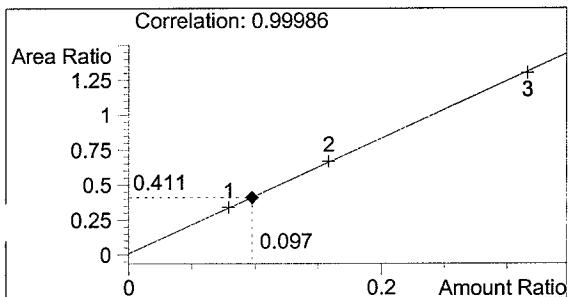
0.10 control  
 m pemberton

vial # 18

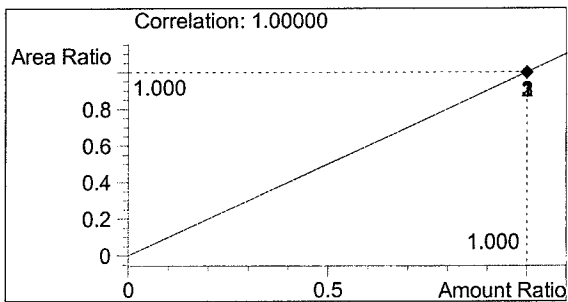


#	Compound	Area	RT
1	Ethanol	1567	1.038
2	n-Propanol	3815	1.691

Totals:



Ethanol 0.097 g/100ml



n-Propanol 1.000 g/100ml

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

4/27/04 11:12:26 AM

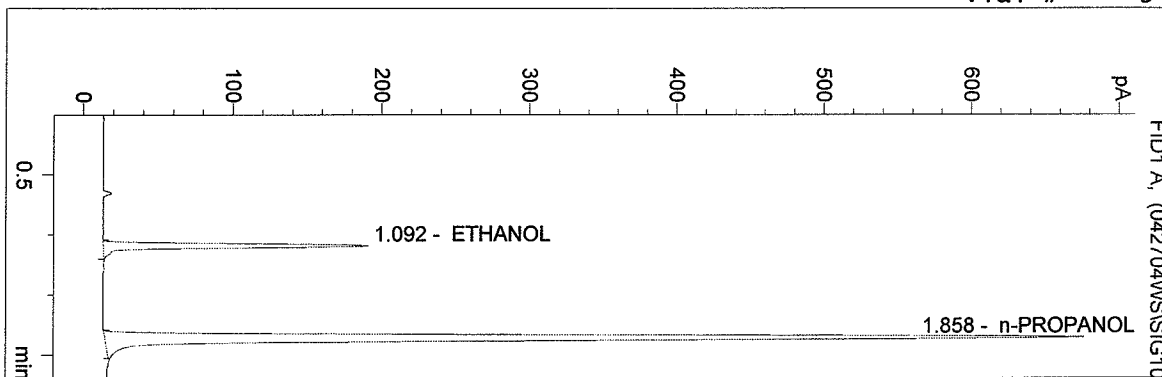
Instrument 3

PP-A1c2

QA 04010

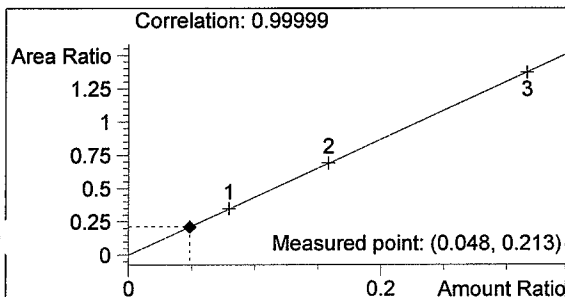
WP MARSHALL

vial # 3

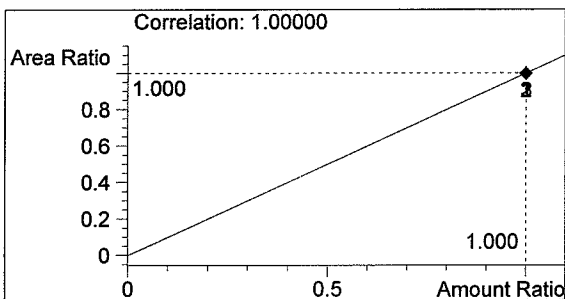


#	Compound	Area	RT
1	ETHANOL	424	1.092
2	n-PROPANOL	1994	1.858

Totals:



ETHANOL 0.048 g/100mL



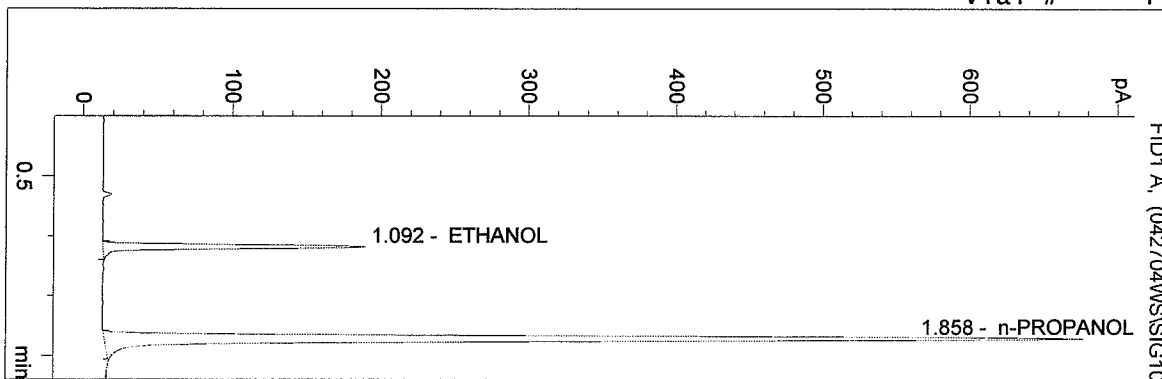
n-PROPANOL 1.000 g/100mL

STDS  
042712

C:\HPCHEM\1\METHODS\BLDALCO3.M  
 4/27/04 11:15:33 AM  
 Instrument 3  
 PP-A1c2

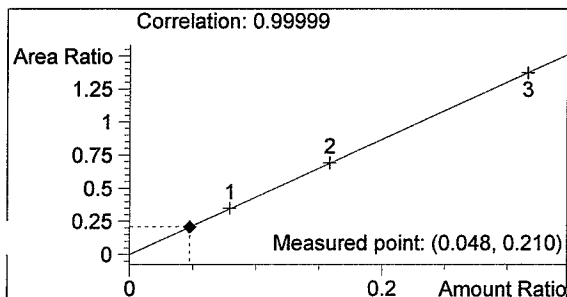
QA 04010  
 WP MARSHALL

vial # 4

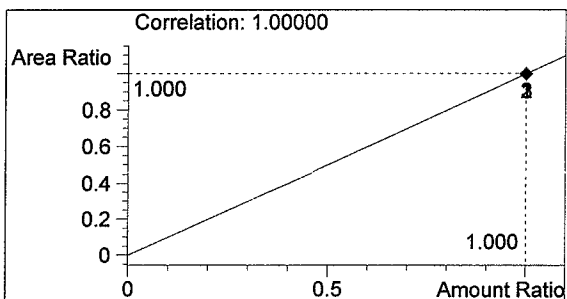


#	Compound	Area	RT
1	ETHANOL	421	1.092
2	n-PROPANOL	2009	1.858

Totals:



ETHANOL 0.048 g/100mL

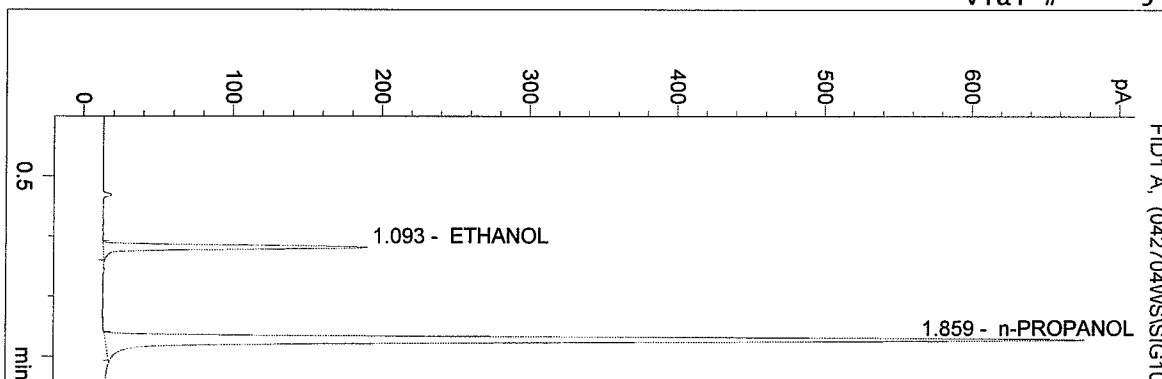


n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M  
 4/27/04 11:19:00 AM  
 Instrument 3  
 PP-A1c2

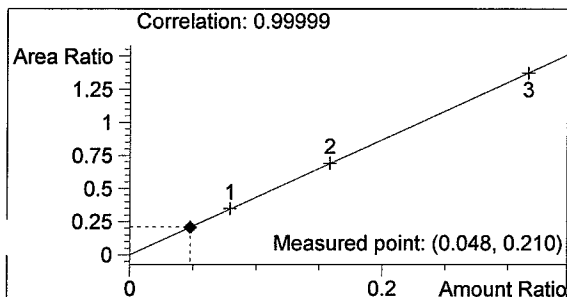
QA 04010  
 WP MARSHALL

vial # 5

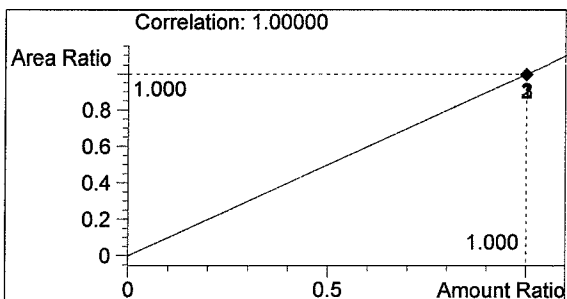


#	Compound	Area	RT
1	ETHANOL	420	1.093
2	n-PROPANOL	1998	1.859

Totals:



ETHANOL 0.048 g/100mL



n-PROPANOL 1.000 g/100mL

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

4/27/04 11:22:06 AM

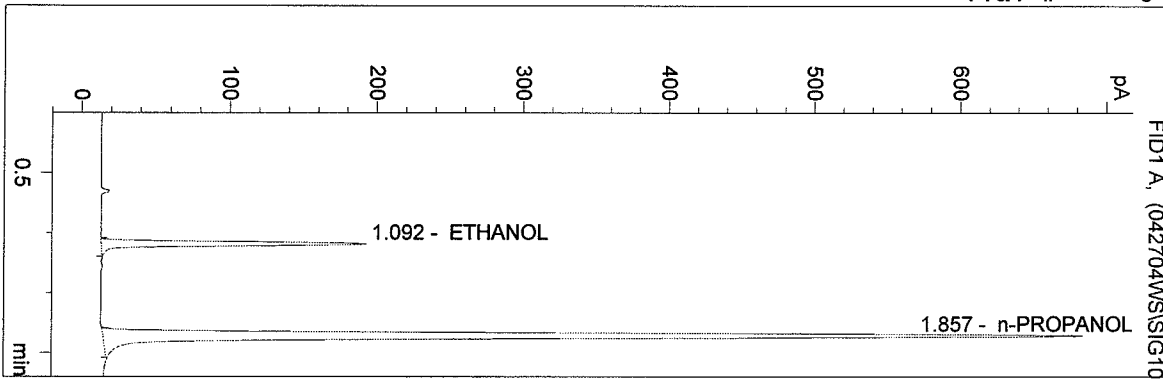
Instrument 3

DR-A1c2

QA 04010

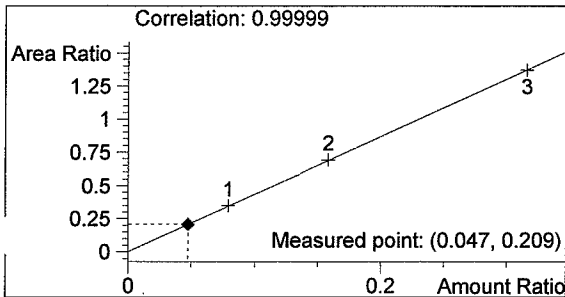
WP MARSHALL

vial # 6

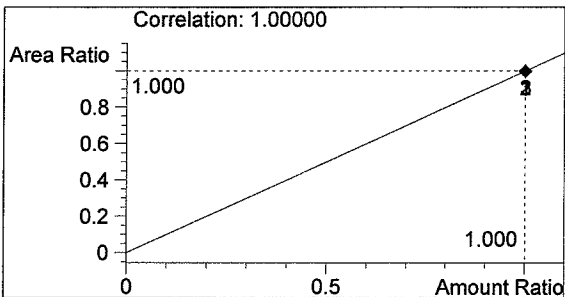


#	Compound	Area	RT
1	ETHANOL	423	1.092
2	n-PROPANOL	2022	1.857

Totals:



ETHANOL 0.047 g/100mL



n-PROPANOL 1.000 g/100mL

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

4/27/04 11:25:13 AM

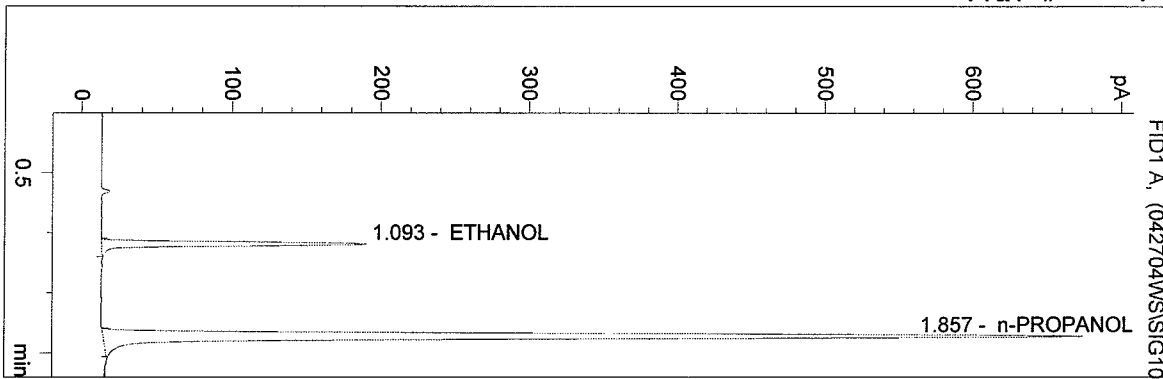
Instrument 3

PP-A1c2

QA 04010

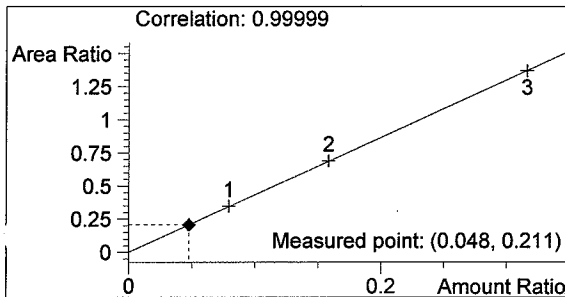
WP MARSHALL

vial # 7

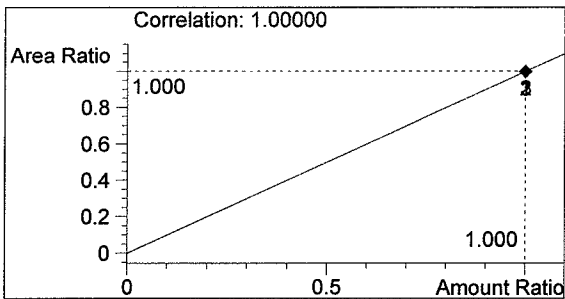


#	Compound	Area	RT
1	ETHANOL	417	1.093
2	n-PROPANOL	1981	1.857

Totals:



ETHANOL 0.048 g/100mL



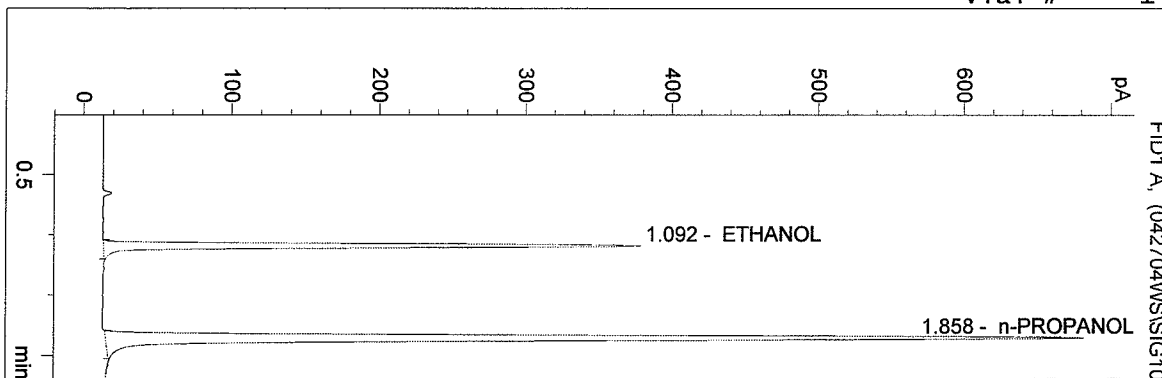
n-PROPANOL 1.000 g/100mL



C:\HPCHEM\1\METHODS\BLDALCO3.M  
 4/27/04 11:06:13 AM  
 Instrument 3  
 PC-A1c2

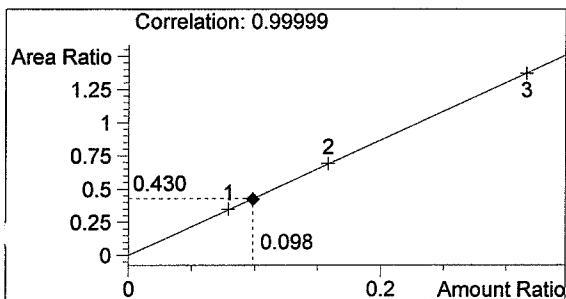
0.10 CONTROL WM  
 WP MARSHALL

vial # 1

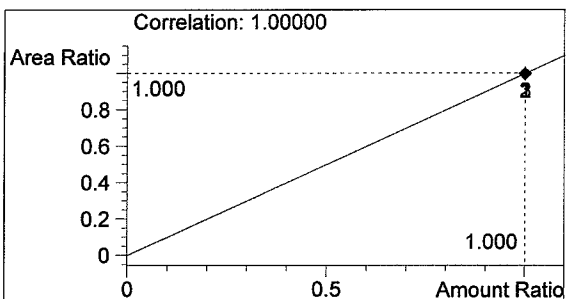


#	Compound	Area	RT
1	ETHANOL	863	1.092
2	n-PROPANOL	2005	1.858

Totals:



ETHANOL 0.098 g/100mL

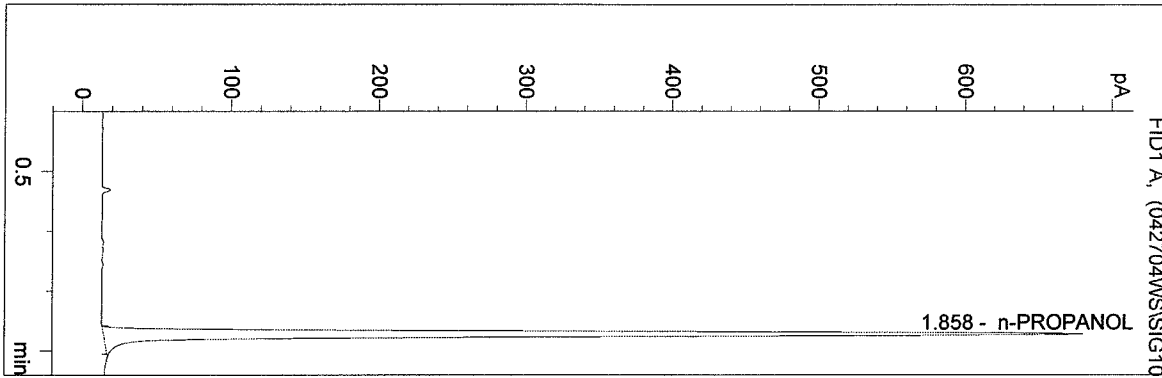


n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M  
 4/27/04 11:09:20 AM  
 Instrument 3  
 P2-A1c2

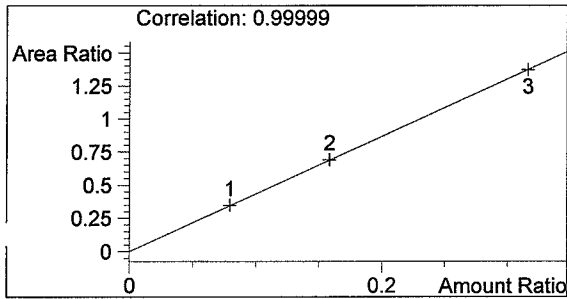
BLANK  
 WP MARSHALL

vial # 2

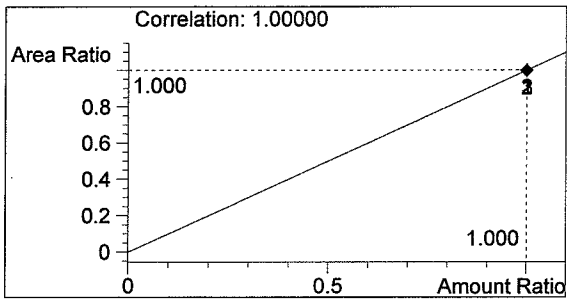


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	2013	1.858

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL