

**WASHINGTON STATE TOXICOLOGY LABORATORY**  
 FORENSIC LABORATORY SERVICES BUREAU  
 WASHINGTON STATE PATROL  
 2203 AIRPORT WAY S, SUITE 360  
 SEATTLE, WASHINGTON 98134-2027  
 (206) 464-5435 FAX (206) 389-2738

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

Batch number **03018**

Date: 6/11/2003

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	Anal10	Anal 11	Anal 12
1	0.096	0.099	0.097									
2	0.097	0.098	0.098									
3	0.097	0.098	0.098									
4	0.097	0.098	0.098									
5	0.097	0.099	0.098									
Ctrl	0.098	0.099	0.100									

**External Control:**

Lot #: A022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

**Statistics:**

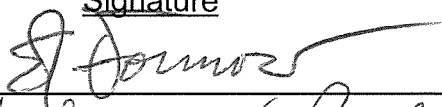
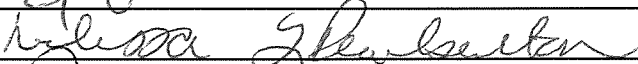
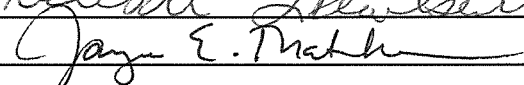
Avg. solution concent.: 0.0977 g/100 mL

SD: 0.00082

Range (3xSD): 0.0952 to 0.1001

Precision CV (%): 0.8360 %

**Equivalent vapor concent.:** 0.0794 g/210L

Analyst	Name	Signature	Date
1	Edward Formoso		06/12/03
2	Melissa Pemberton		06/12/03
3	Jayne E. Thatcher		06/12/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Edward Formoso according to the approved protocol



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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, Edward J. Formoso, 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: B.S. degree in Chemistry and twenty-seven years experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03018, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0977 grams per 100ml.

Dated: 6/13/03  
Seattle, WA

Edward J. Formoso  
Forensic Toxicologist

EJF/bf  
EFQA





STATE OF WASHINGTON

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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 03018 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0977 grams per 100ml.

Dated: 6/13/03  
Seattle, WA

  
Melissa L. Pemberton  
Forensic Toxicologist

MP/bf  
MPQA





STATE OF WASHINGTON  
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WASHINGTON STATE TOXICOLOGY LABORATORY

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION

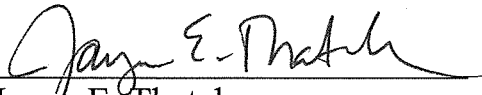
I, Jayne E. Thatcher, do certify under penalty of perjury as follows:

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: B.S. degree in Cell and Molecular Biology and two years experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03018, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0977 grams per 100ml.

Dated: 6/13/03  
Seattle, WA

  
Jayne E. Thatcher  
Forensic Toxicologist

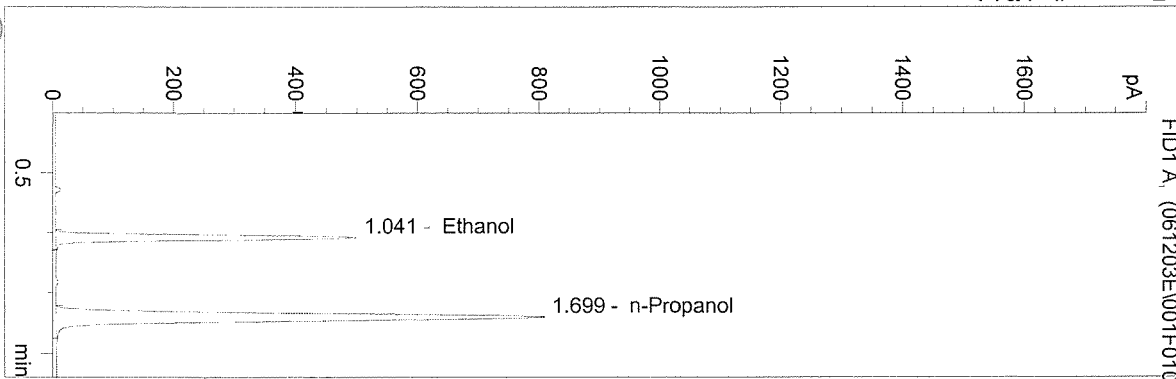
JET/bf  
JTQA



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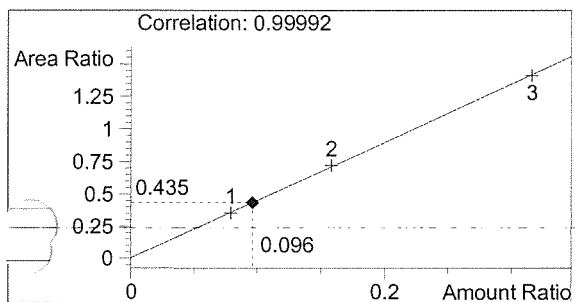
03018  
 ED FORMOSO

vial # 1

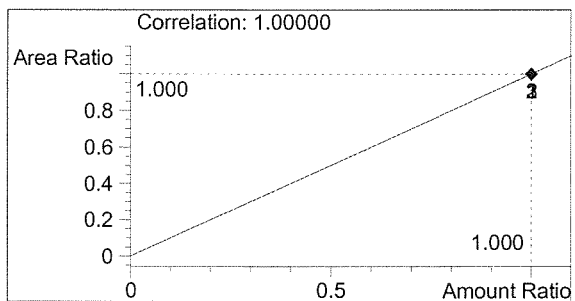


#	Compound	Area	RT
1	Ethanol	1465	1.041
2	n-Propanol	3370	1.699

Totals:



Ethanol 0.096 g/100ml

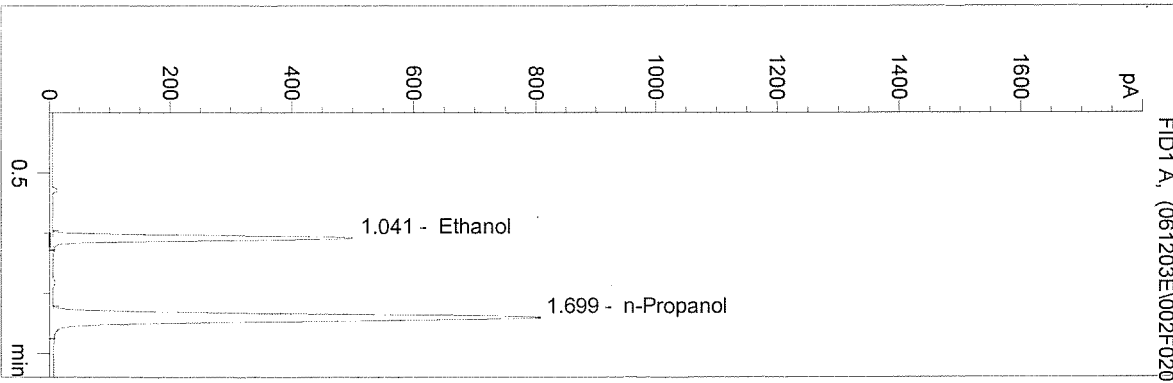


n-Propanol 1.000 g/100ml

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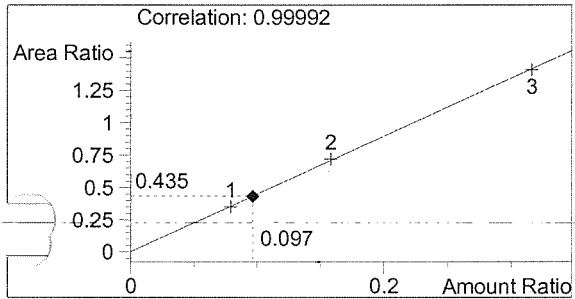
03018  
 ED FORMOSO

vial # 2

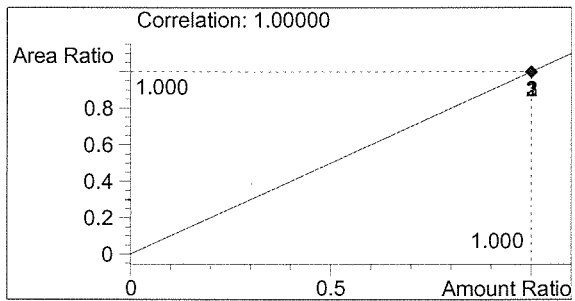


#	Compound	Area	RT
1	Ethanol	1456	1.041
2	n-Propanol	3344	1.699

Totals:



Ethanol 0.097 g/100ml

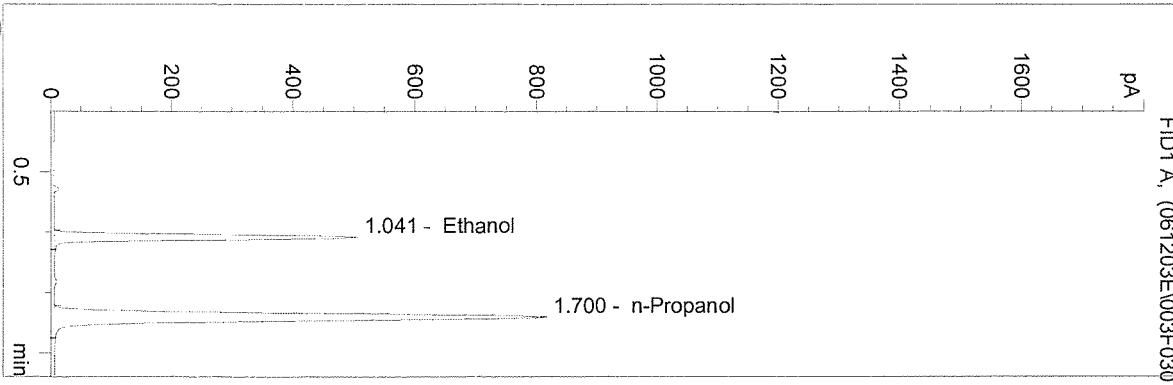


n-Propanol 1.000 g/100ml

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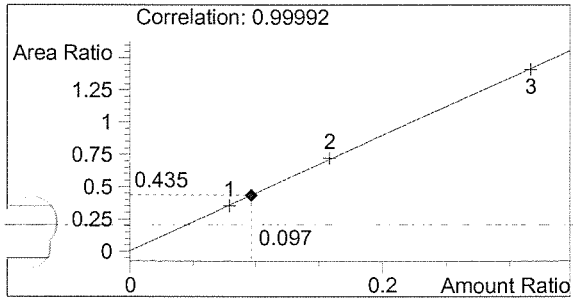
03018  
 ED FORMOSO

vial # 3

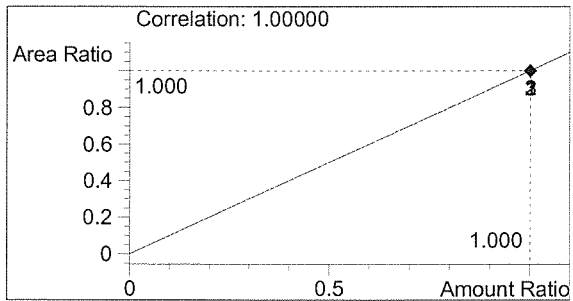


#	Compound	Area	RT
1	Ethanol	1475	1.041
2	n-Propanol	3387	1.700

Totals:



Ethanol 0.097 g/100ml

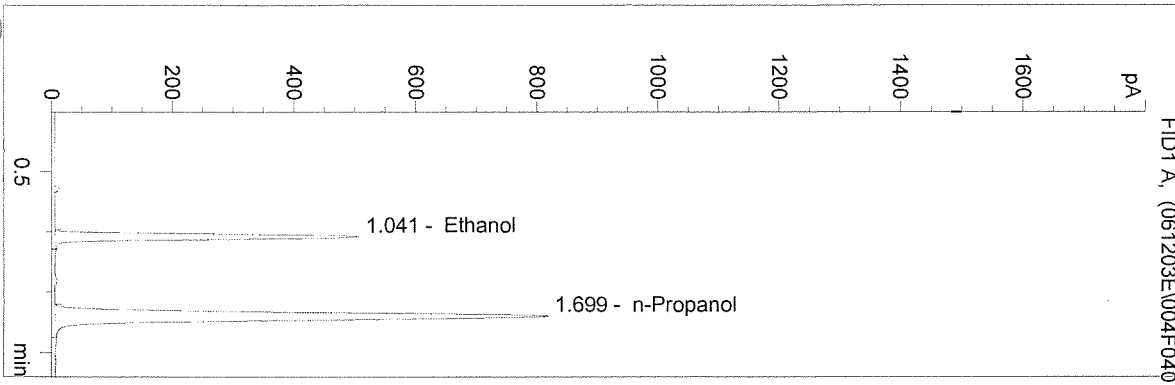


n-Propanol 1.000 g/100ml

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 ALCL

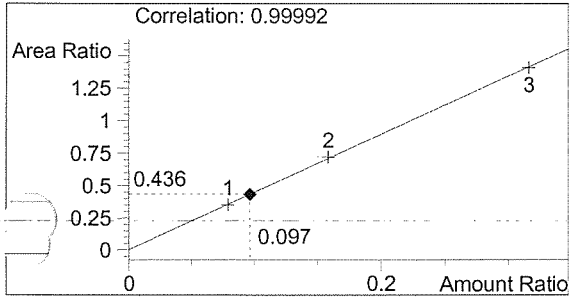
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 ED FORMOSO

vial # 4

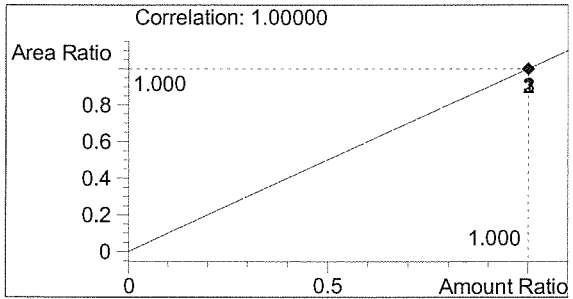


#	Compound	Area	RT
1	Ethanol	1479	1.041
2	n-Propanol	3395	1.699

Totals:



Ethanol 0.097 g/100ml



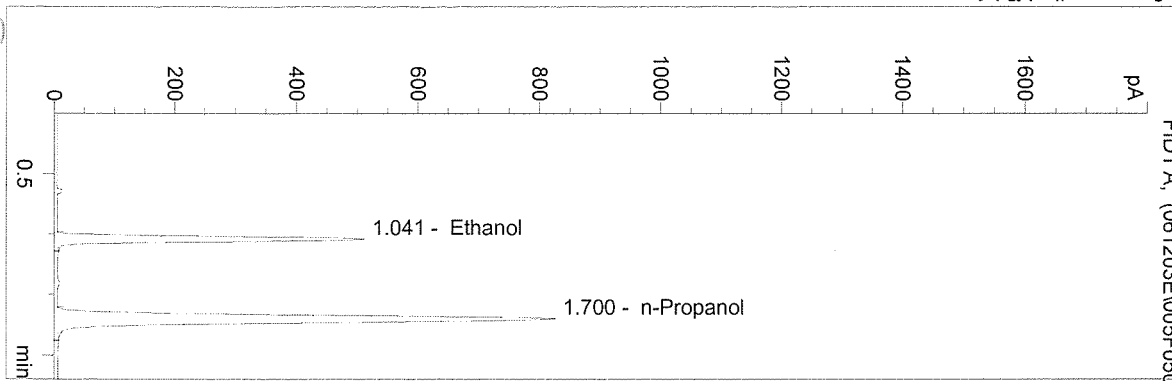
n-Propanol 1.000 g/100ml



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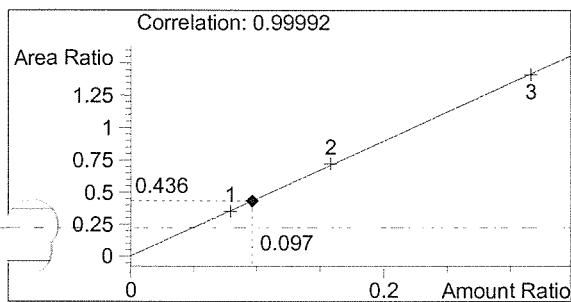
03018  
 ED FORMOSO

vial # 5

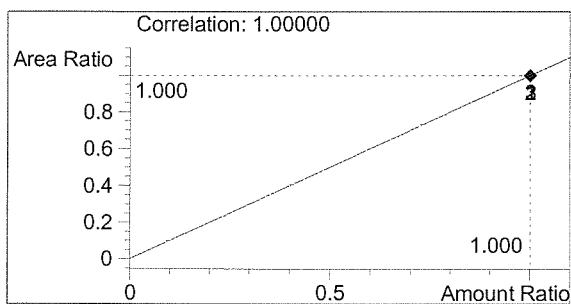


#	Compound	Area	RT
1	Ethanol	1496	1.041
2	n-Propanol	3432	1.700

Totals:



Ethanol 0.097 g/100ml

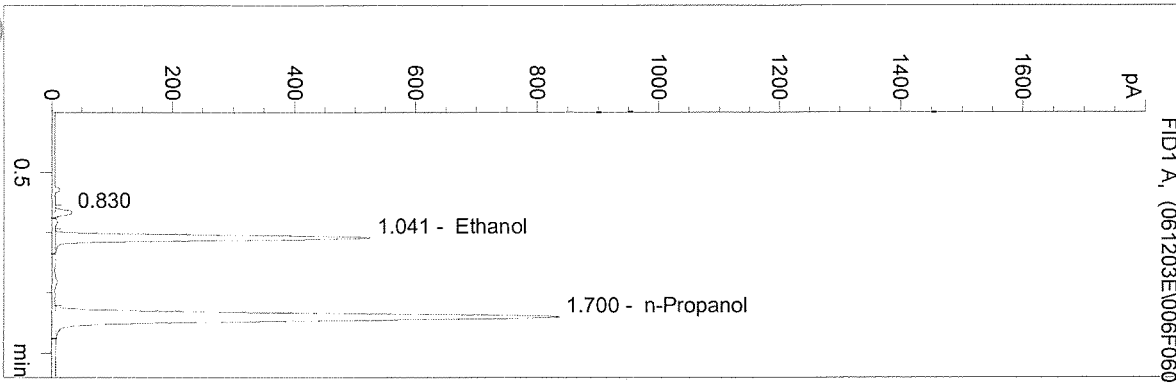


n-Propanol 1.000 g/100ml

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 ALC1

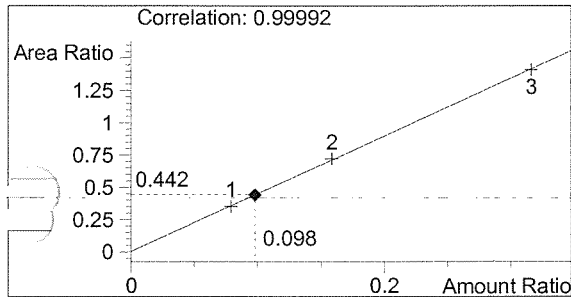
0.10 CONTROL  
 ED FORMOSO

vial # 6

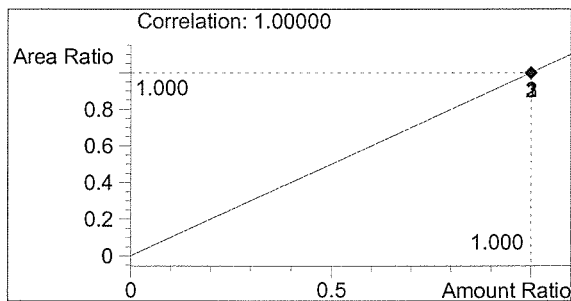


#	Compound	Area	RT
1		81	0.830
2	Ethanol	1534	1.041
3	n-Propanol	3467	1.700

Totals:



Ethanol 0.098 g/100ml

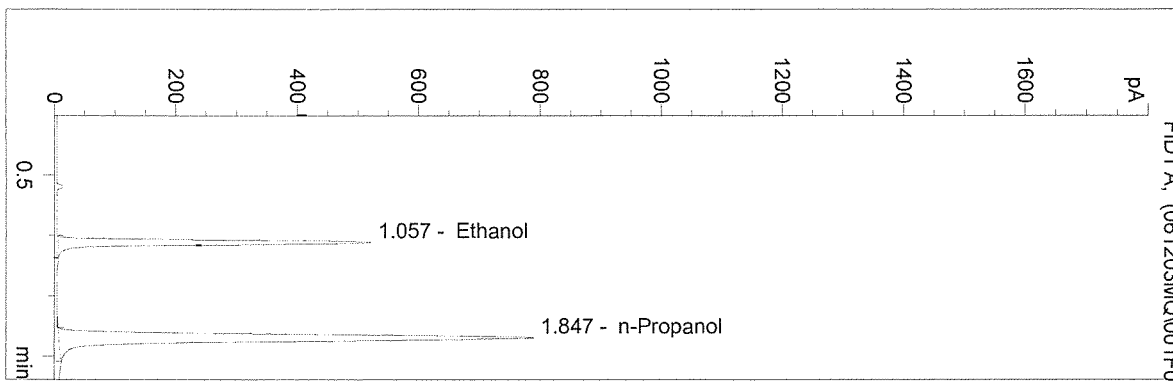


n-Propanol 1.000 g/100ml

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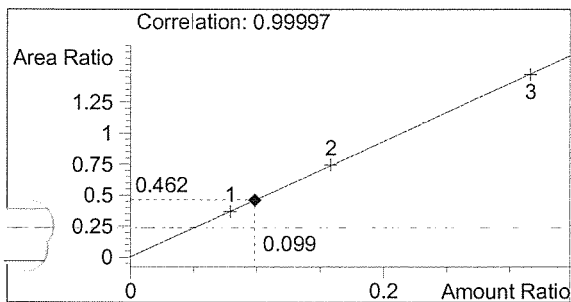
03018 QA 0.08  
 M PEMBERTON

vial # 1

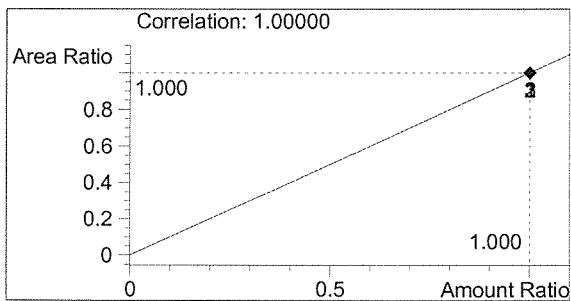


#	Compound	Area	RT
1	Ethanol	1402	1.057
2	n-Propanol	3037	1.847

Totals:



Ethanol 0.099 g/100ml

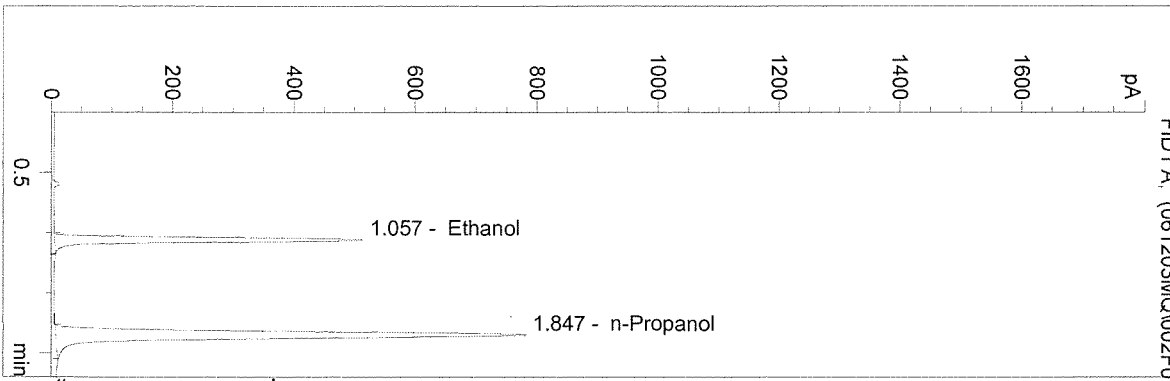


n-Propanol 1.000 g/100ml

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 Instrument 2  
 ALCL

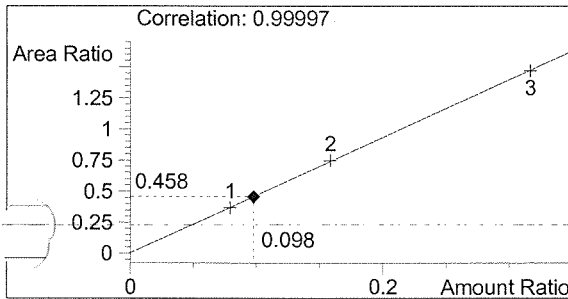
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 M PEMBERTON

vial # 2

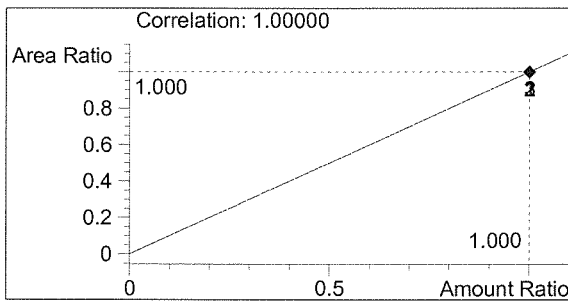


#	Compound	Area	RT
1	Ethanol	1379	1.057
2	n-Propanol	3010	1.847

Totals:



Ethanol 0.098 g/100ml

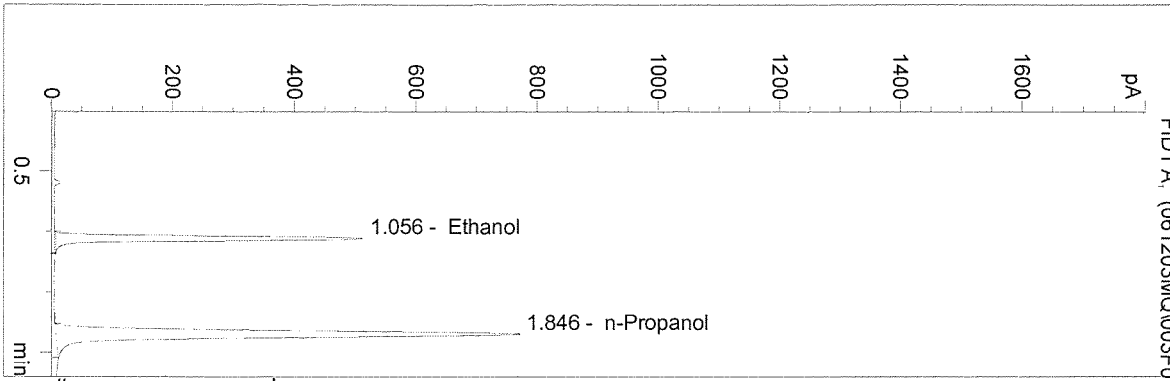


n-Propanol 1.000 g/100ml

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 Instrument 2  
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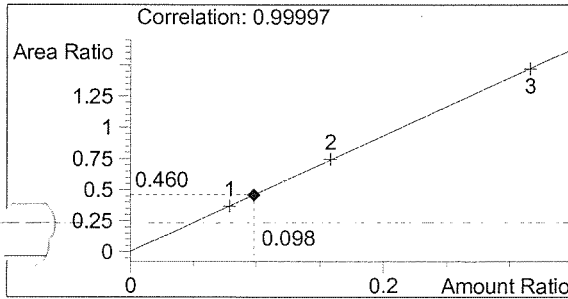
03018 QA 0.08  
 M PEMBERTON

vial # 3

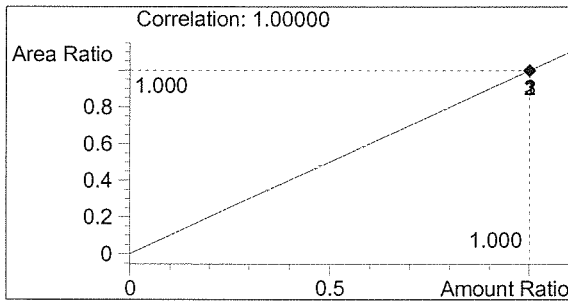


#	Compound	Area	RT
1	Ethanol	1376	1.056
2	n-Propanol	2989	1.846

Totals:



Ethanol 0.098 g/100ml

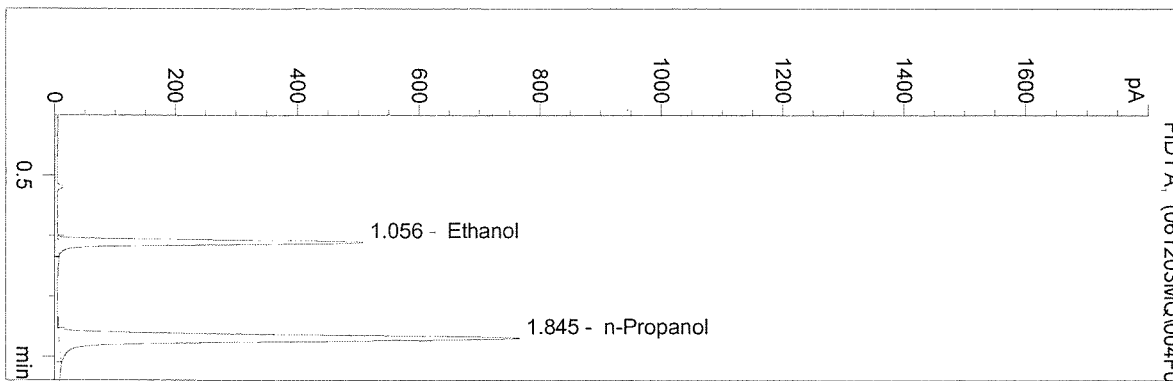


n-Propanol 1.000 g/100ml

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 Instrument 2  
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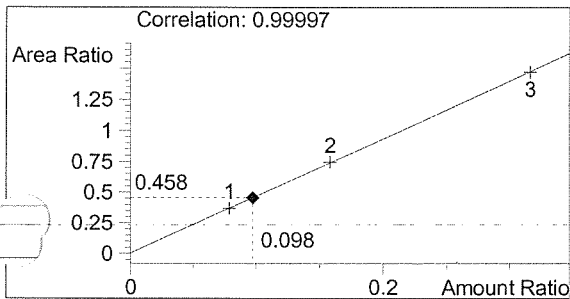
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 M PEMBERTON

vial # 4

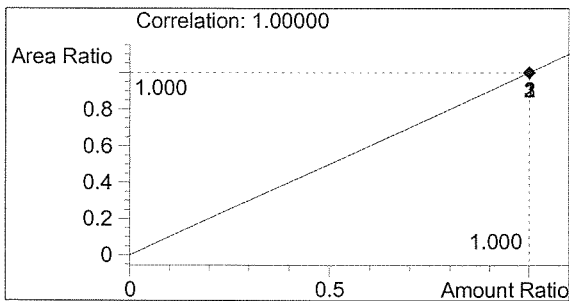


#	Compound	Area	RT
1	Ethanol	1356	1.056
2	n-Propanol	2961	1.845

Totals:



Ethanol 0.098 g/100ml

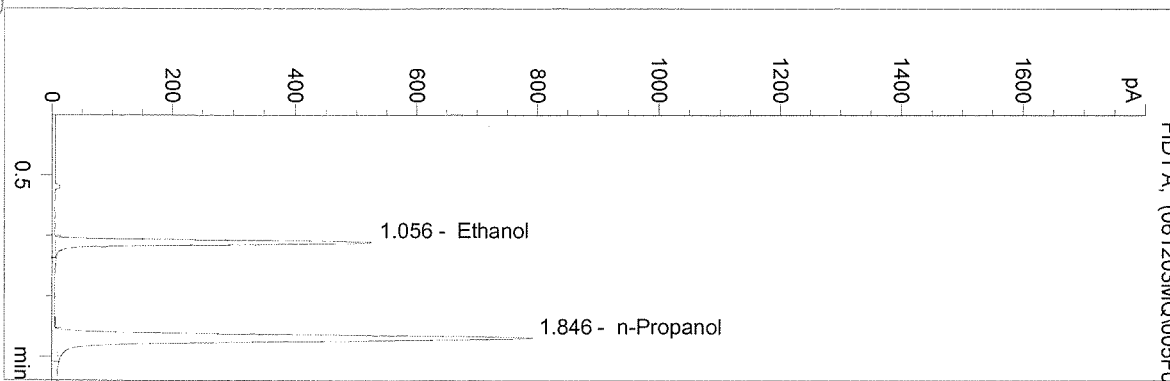


n-Propanol 1.000 g/100ml

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 Instrument 2  
 ALC1

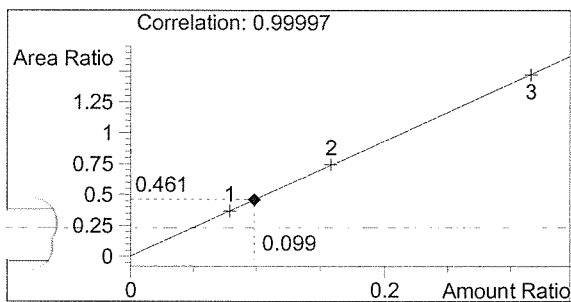
0.018 QA 0.08  
 M PEMBERTON

vial # 5

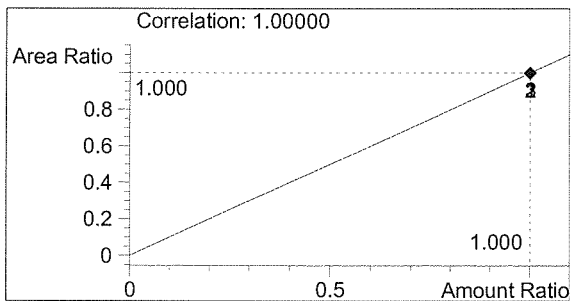


#	Compound	Area	RT
1	Ethanol	1406	1.056
2	n-Propanol	3048	1.846

Totals:



Ethanol 0.099 g/100ml

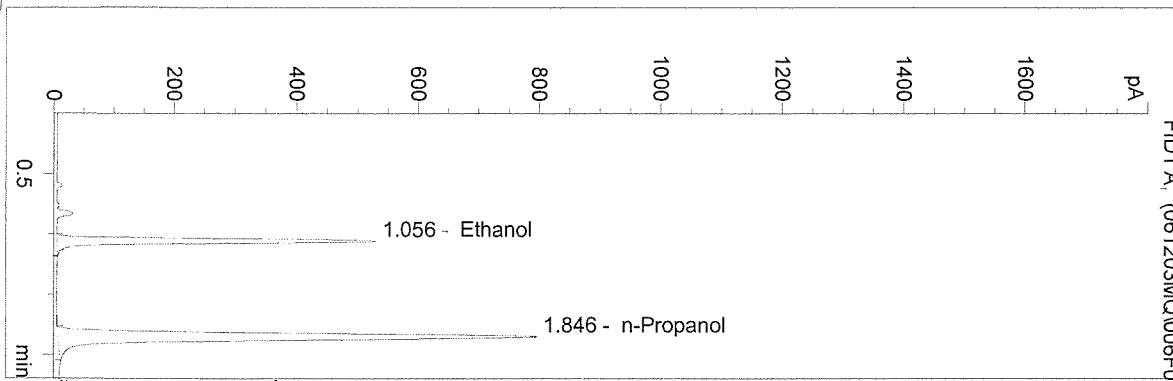


n-Propanol 1.000 g/100ml

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 Instrument 2  
 ALC1

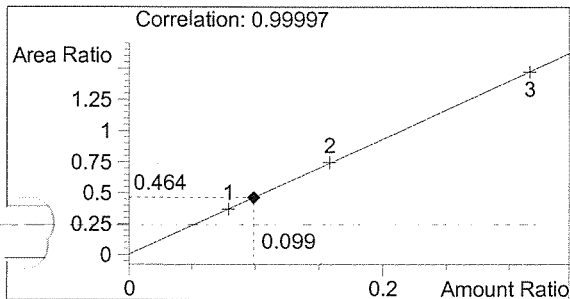
0.10 CONTROL  
 M PEMBERTON

vial # 6

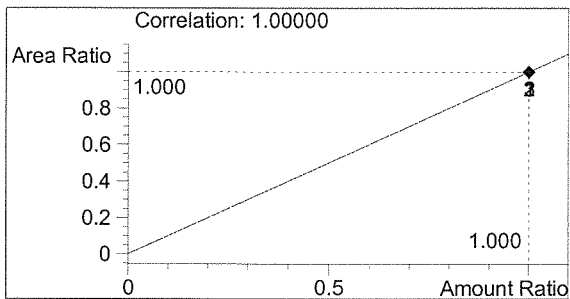


#	Compound	Area	RT
1	Ethanol	1426	1.056
2	n-Propanol	3074	1.846

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml



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6/12/03 12:40:16 PM

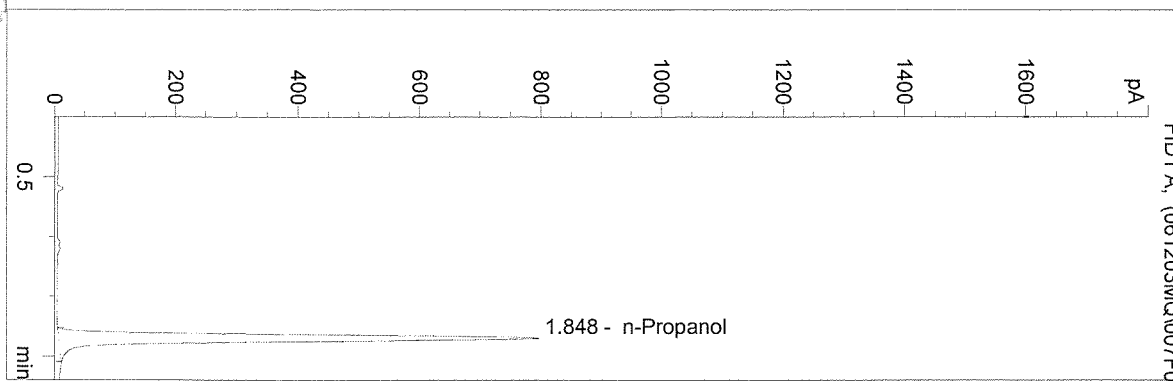
Instrument 2

ALC1

BLK

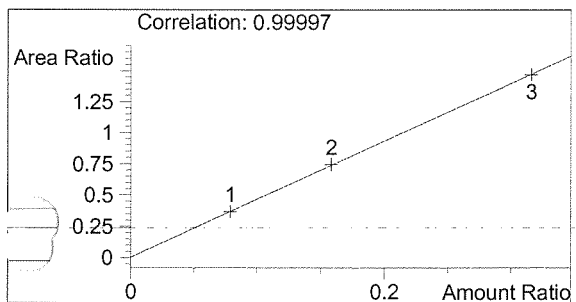
M PEMBERTON

vial # 7

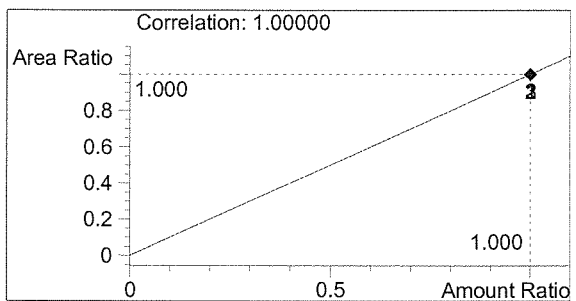


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3073	1.848

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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

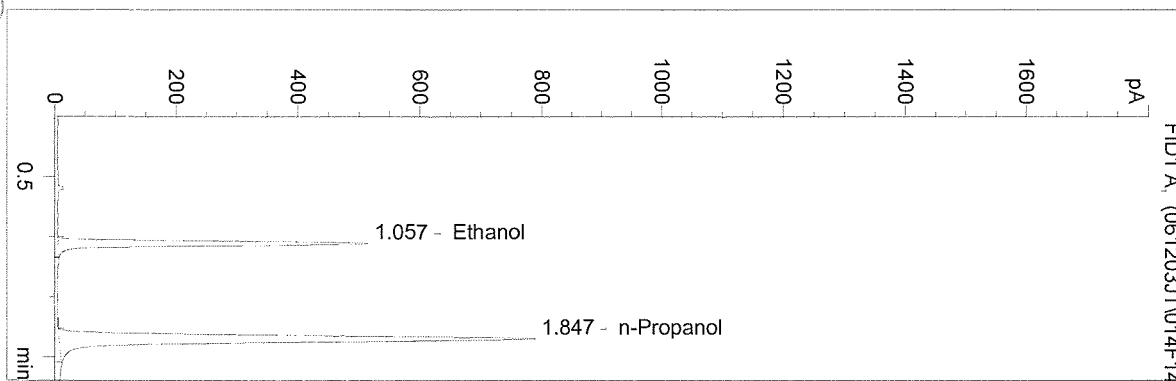
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Instrument 2

ALC1

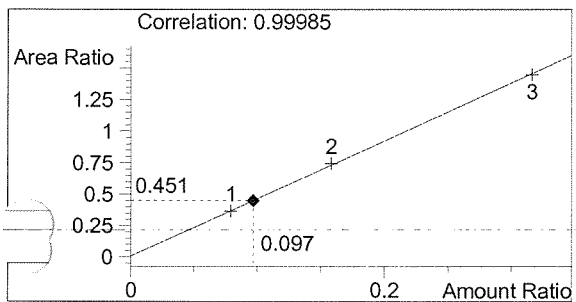
QA-03018  
Jayne E. Thatcher

vial # 14

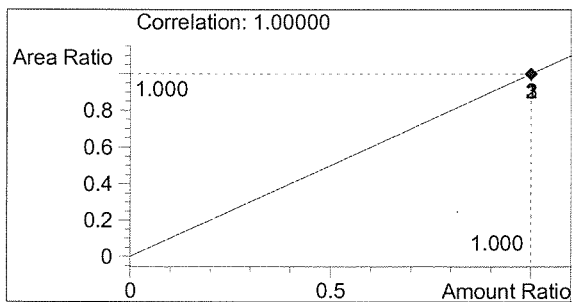


#	Compound	Area	RT
1	Ethanol	1372	1.057
2	n-Propanol	3041	1.847

Totals:



Ethanol 0.097 g/100ml

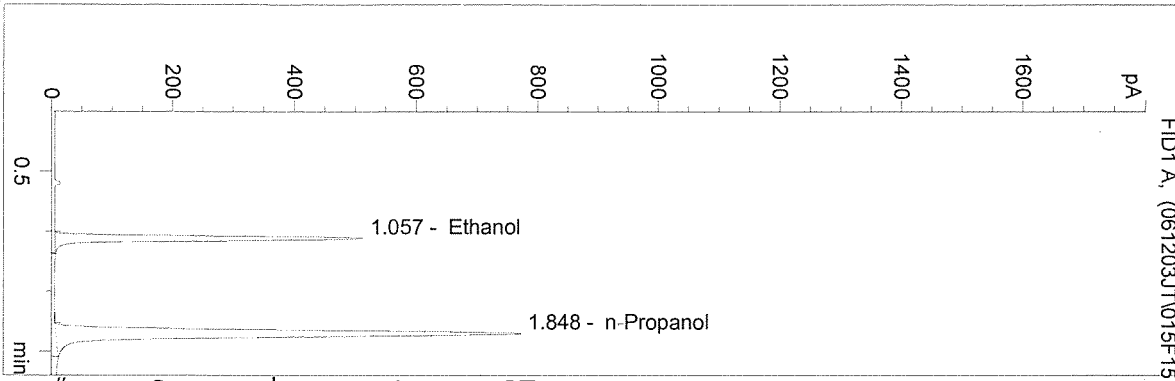


n-Propanol 1.000 g/100ml

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 Instrument 2  
 ALC1

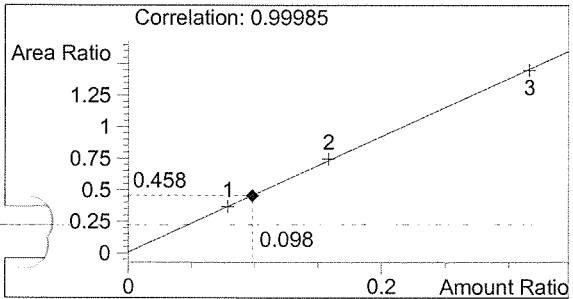
QA-03018  
 Jayne E. Thatcher

vial # 15

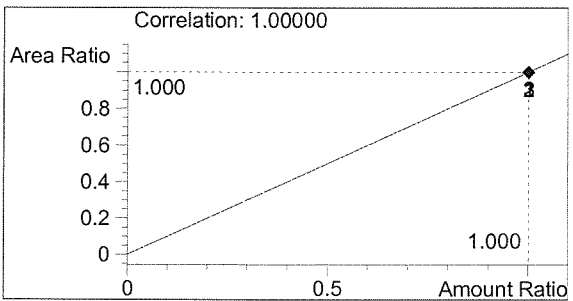


#	Compound	Area	RT
1	Ethanol	1367	1.057
2	n-Propanol	2984	1.848

Totals:



Ethanol 0.098 g/100ml

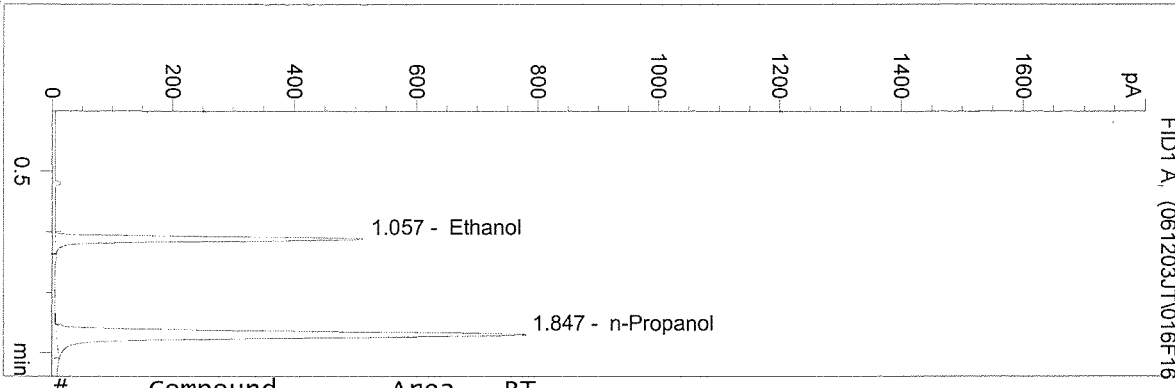


n-Propanol 1.000 g/100ml

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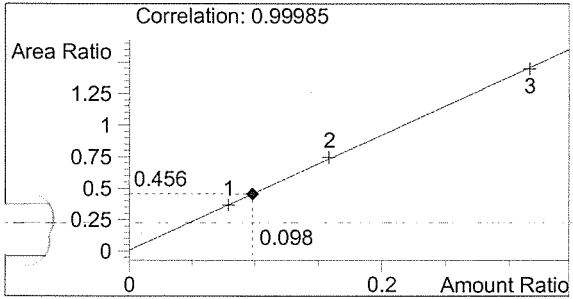
QA-03018  
 Jayne E. Thatcher

vial # 16

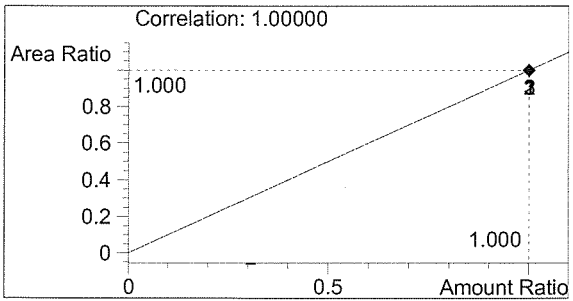


#	Compound	Area	RT
1	Ethanol	1373	1.057
2	n-Propanol	3013	1.847

Totals:



Ethanol 0.098 g/100ml

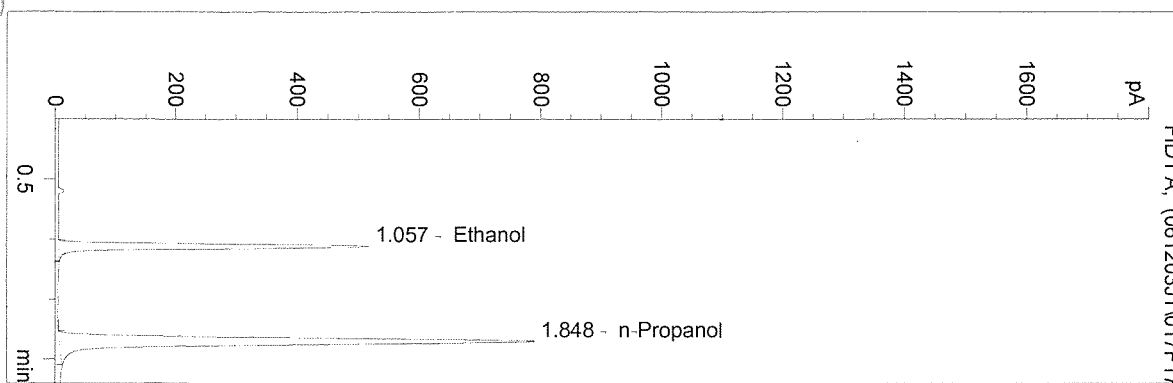


n-Propanol 1.000 g/100ml

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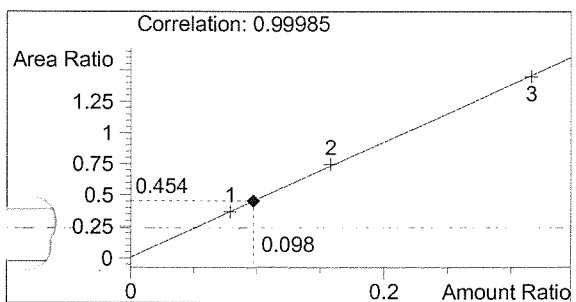
QA-03018  
 Jayne E. Thatcher

vial # 17

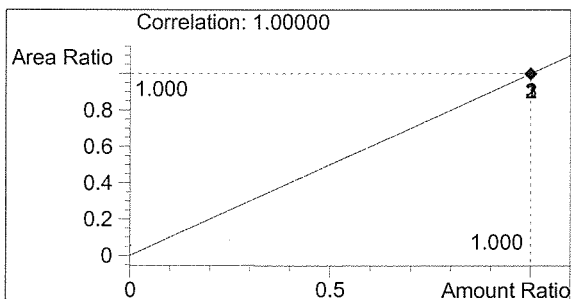


#	Compound	Area	RT
1	Ethanol	1383	1.057
2	n-Propanol	3045	1.848

Totals:



Ethanol 0.098 g/100ml

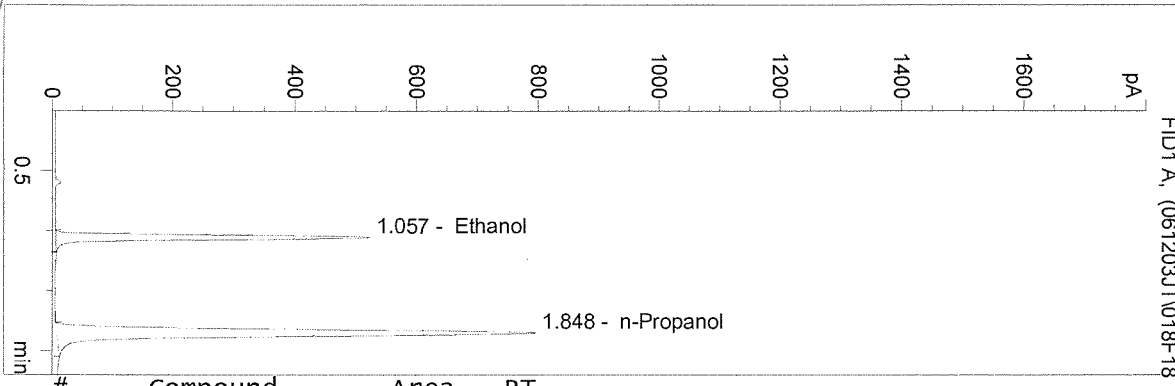


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 6/12/03 3:50:28 PM  
 Instrument 2  
 ALC1

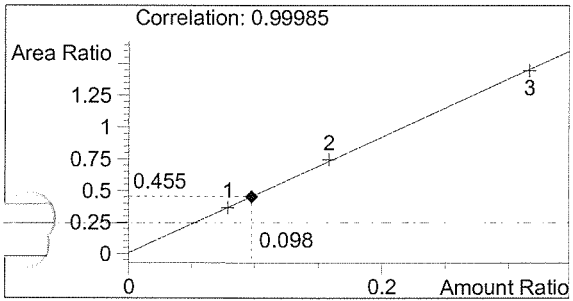
QA-03018  
 Jayne E. Thatcher

vial # 18

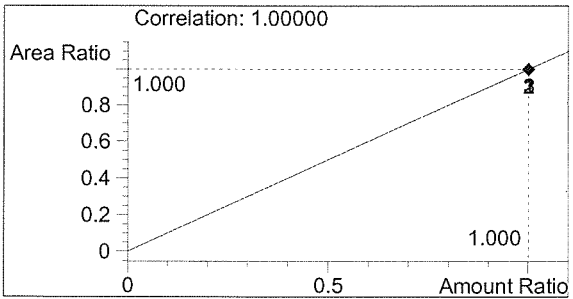


#	Compound	Area	RT
1	Ethanol	1398	1.057
2	n-Propanol	3073	1.848

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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

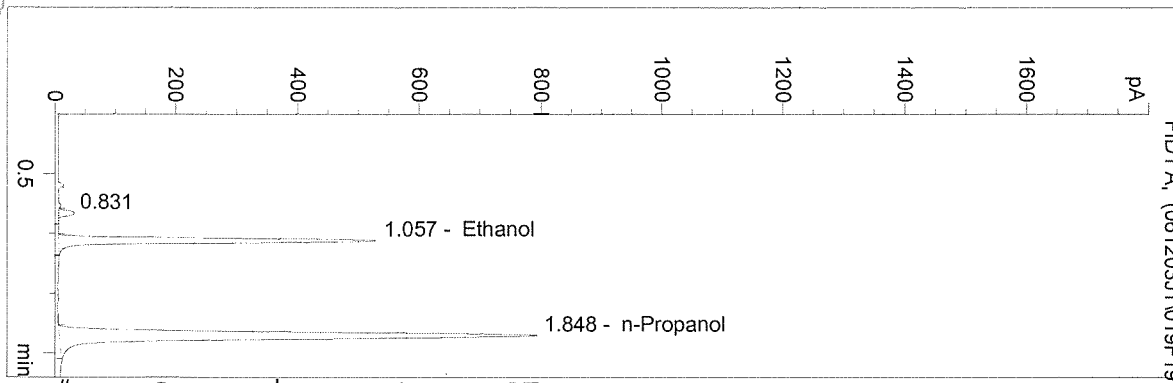
6/12/03 3:53:31 PM

Instrument 2

ALC1

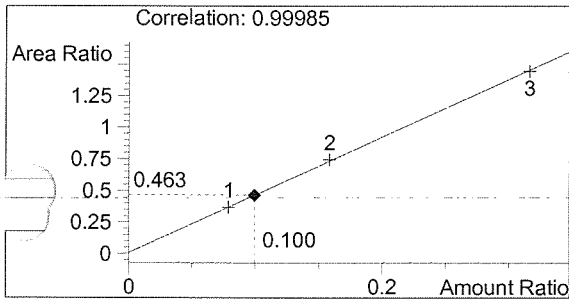
0.10 CONTROL  
Jayne E. Thatcher

vial # 19

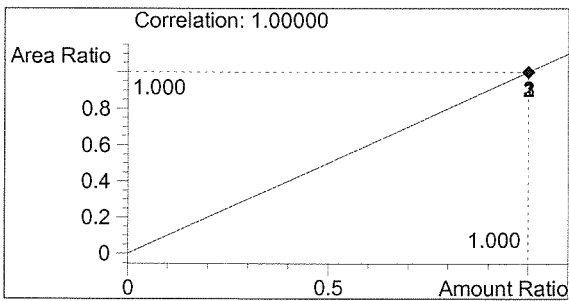


#	Compound	Area	RT
1		76	0.831
2	Ethanol	1423	1.057
3	n-Propanol	3071	1.848

Totals:



Ethanol 0.100 g/100ml

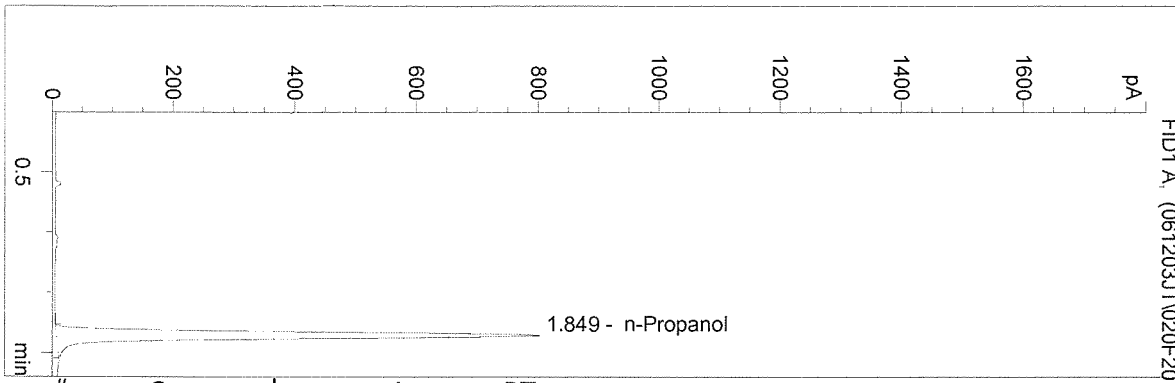


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 6/12/03 3:56:32 PM  
 Instrument 2  
 ALC1

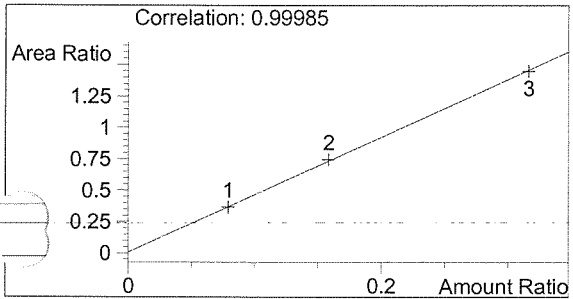
BLANK  
 Jayne E. Thatcher

vial # 20

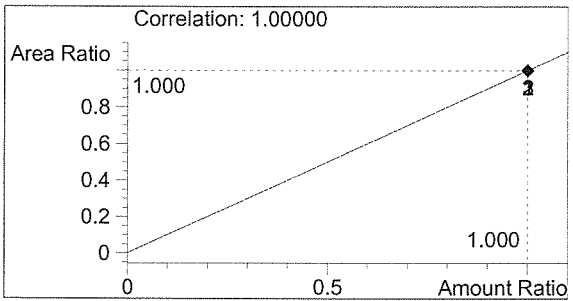


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3098	1.849

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml