

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 **03021**

Date: 6/26/2003

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


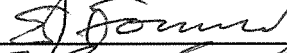
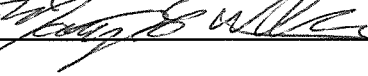
Concentration of ethanol (g/100mL) measured by gas chromatography:

	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	0.096	0.099	0.097									
3	0.095	0.099	0.098									
4	0.096	0.099	0.097									
5	0.096	0.099	0.098									
Ctrl	0.096	0.101	0.099									

External Control:
 Lot #: a022167 Exp date: 01/05
 Target concentration: 0.10 g/100mL

Statistics:
 Avg. solution concent.: 0.0974 g/100 mL
 SD: 0.00140
 Range (3xSD): 0.0932 to 0.1016
 Precision CV (%): 1.4416 %

Equivalent vapor concent.: 0.0792 g/210L

Analyst	Name	Signature	Date
1	Melissa Pemberton		06/26/03
2	Edward Formoso		06/30/03
3	Mary E Wilson		07/01/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Melissa Pemberton according to the approved protocol



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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, 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 03021 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0974 grams per 100ml.

Dated: 7/7/03
Seattle, WA



Melissa L. Pemberton
Forensic Toxicologist

MP/bf
MPQA





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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-eight years experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03021, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0974 grams per 100ml.

Dated: 7/7/03
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/bf
EFQA



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

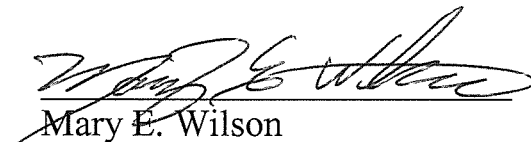
I, Mary E. Wilson, do certify under penalty of perjury as follows:

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 with two years of experience in Toxicology.

The quality assurance solution, Lot Number 03021, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0974 grams per 100ml.

Dated: 7/7/03
Seattle, WA


Mary E. Wilson
Forensic Toxicologist

MEW/bf
MEWQA

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6/26/03 7:59:02 AM

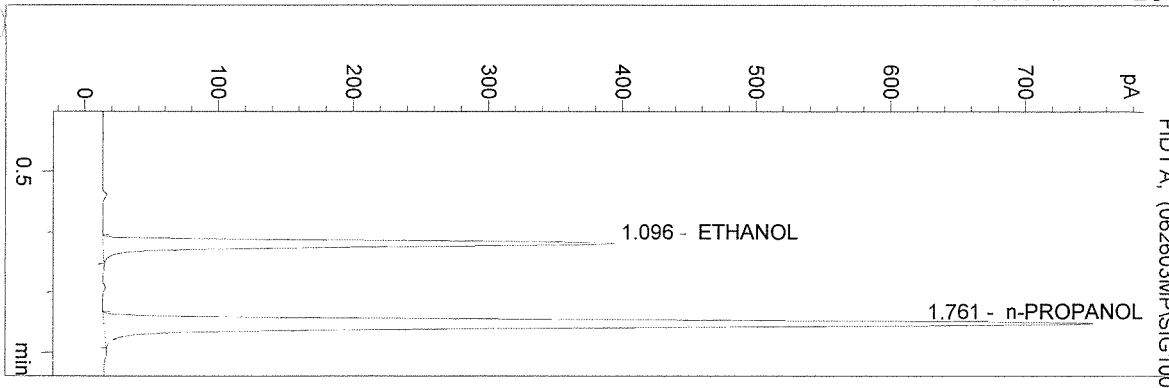
Instrument 3

ALC1

03021 0.08 QA

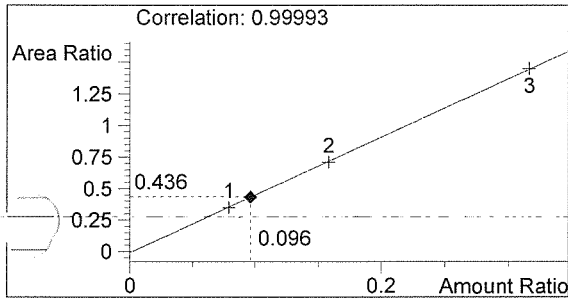
M PEMBERTON

vial # 16

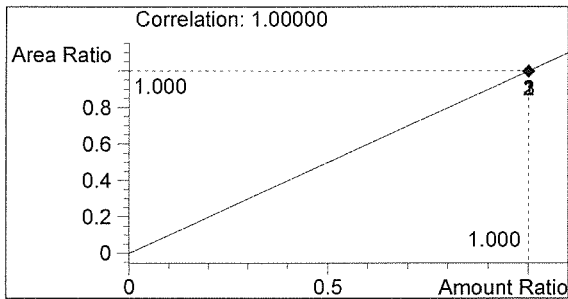


#	Compound	Area	RT
1	ETHANOL	1432	1.096
2	n-PROPANOL	3285	1.761

Totals:



ETHANOL 0.096 g/100mL

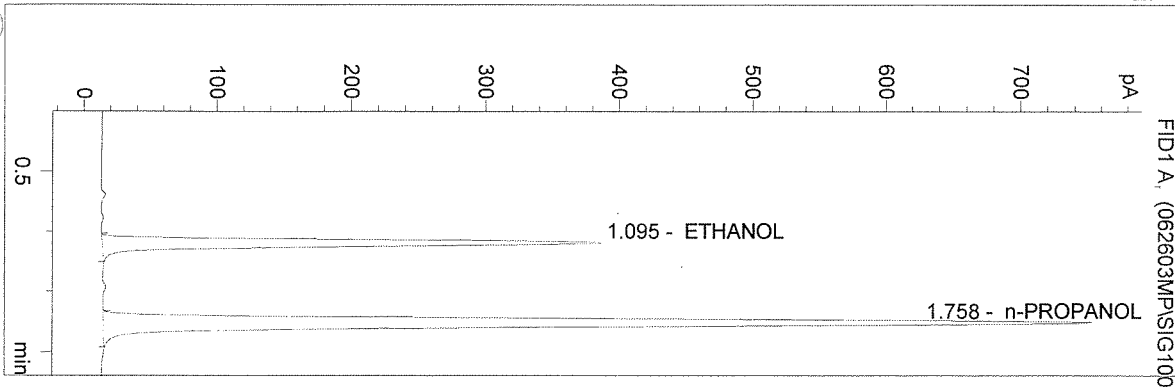


n-PROPANOL 1.000 g/100mL

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 6/26/03 8:02:21 AM
 Instrument 3
 ALC1

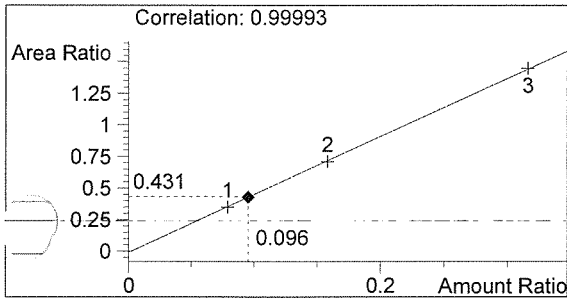
03021 0.08QA
 M PEMBERTON

vial # 17

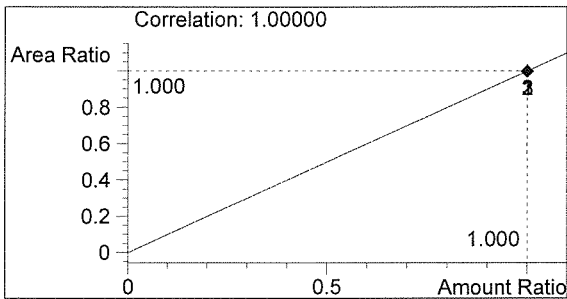


#	Compound	Area	RT
1	ETHANOL	1440	1.095
2	n-PROPANOL	3338	1.758

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL

B

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6/26/03 8:05:15 AM

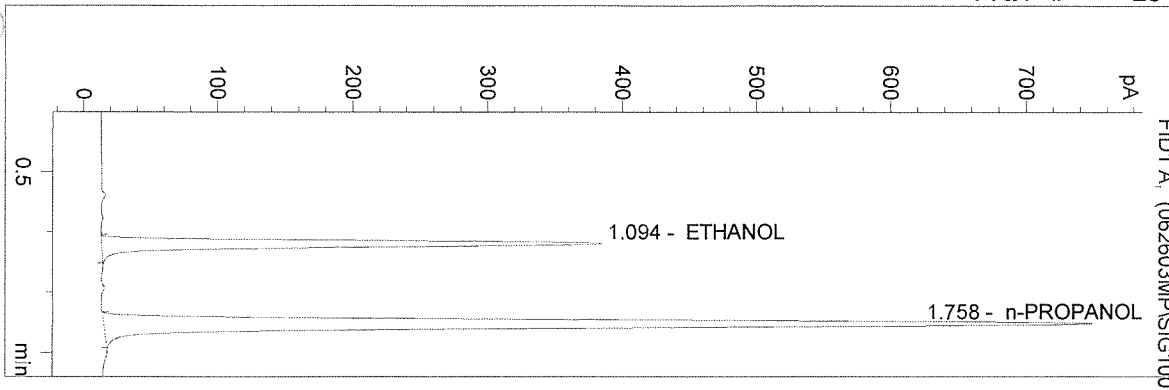
Instrument 3

ALC1

03021 0.08QA

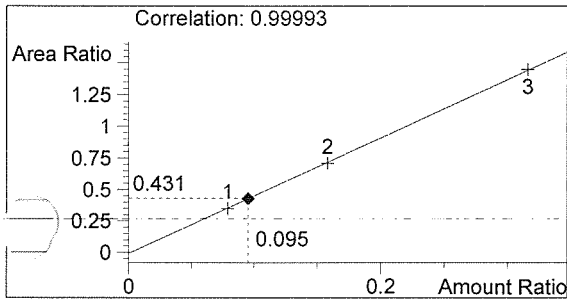
M PEMBERTON

vial # 18

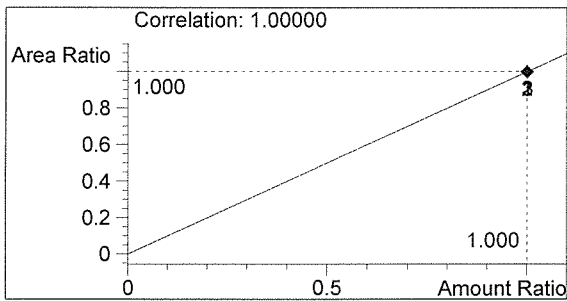


#	Compound	Area	RT
1	ETHANOL	1420	1.094
2	n-PROPANOL	3297	1.758

Totals:



ETHANOL 0.095 g/100mL



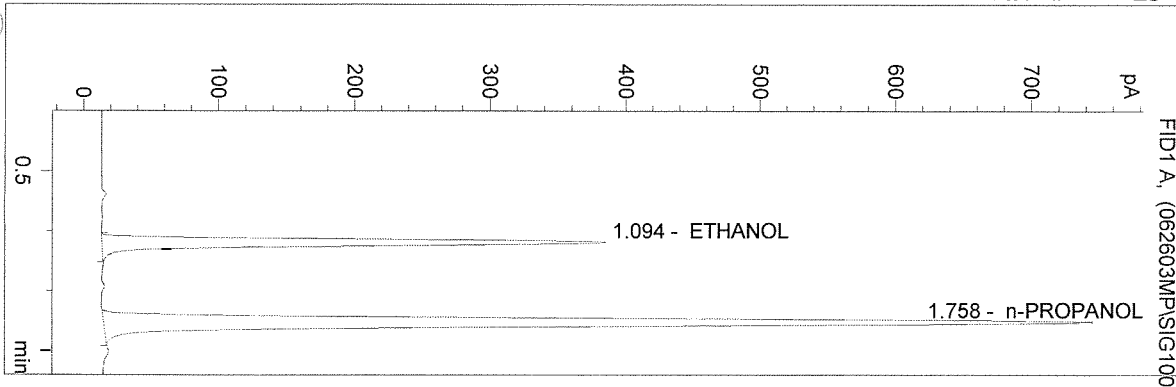
n-PROPANOL 1.000 g/100mL

B

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 6/26/03 8:08:01 AM
 Instrument 3
 ALC1

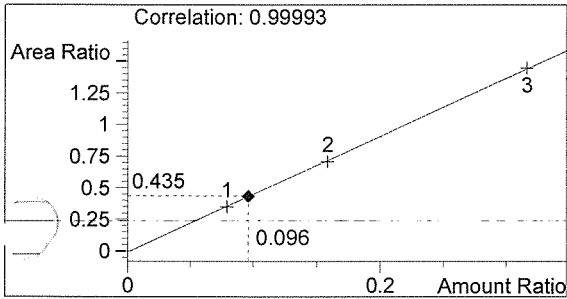
03021 0.08QA
 M PEMBERTON

vial # 19

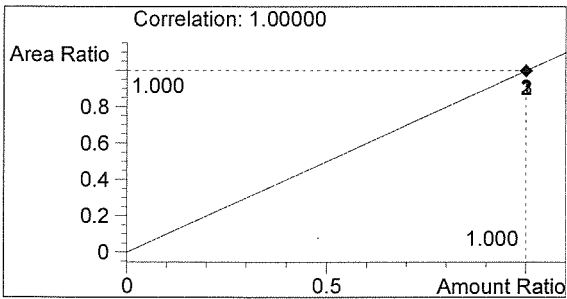


#	Compound	Area	RT
1	ETHANOL	1425	1.094
2	n-PROPANOL	3276	1.758

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL

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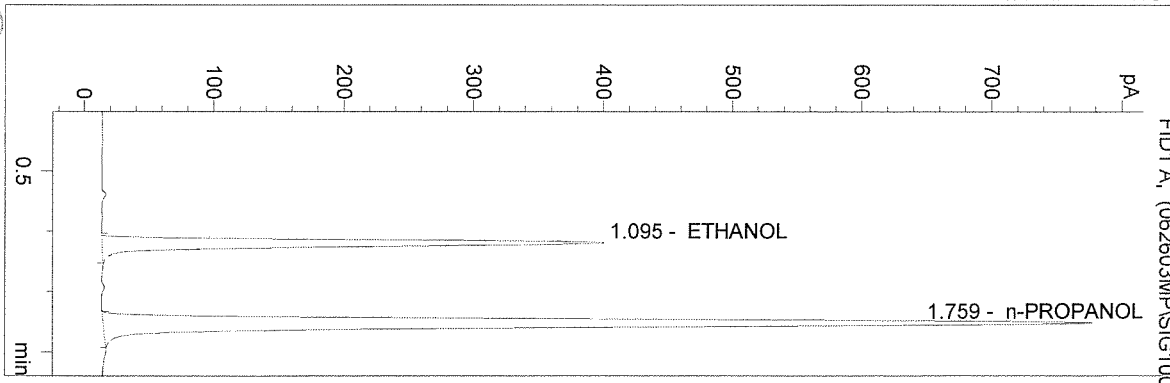
Instrument 3

ALC1

03021 0.08QA

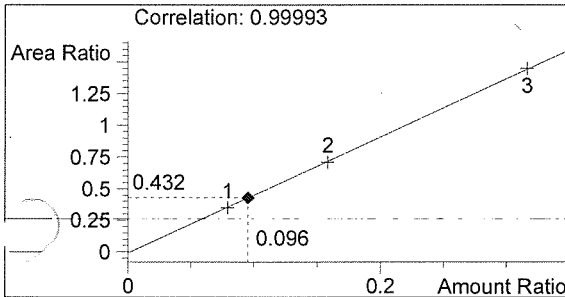
M PEMBERTON

vial # 20

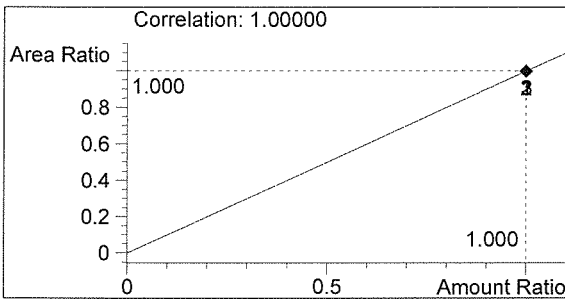


#	Compound	Area	RT
1	ETHANOL	1486	1.095
2	n-PROPANOL	3445	1.759

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL

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6/26/03 8:14:01 AM

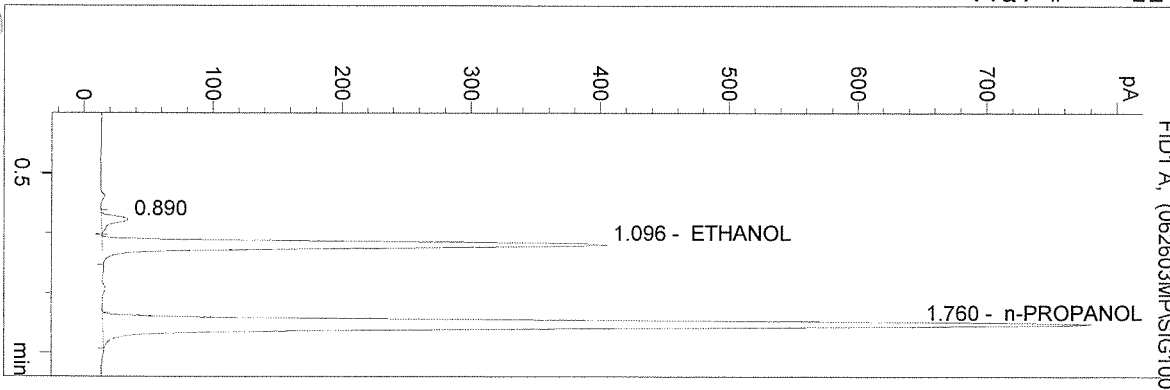
Instrument 3

ALC1

0.10 CONTROL

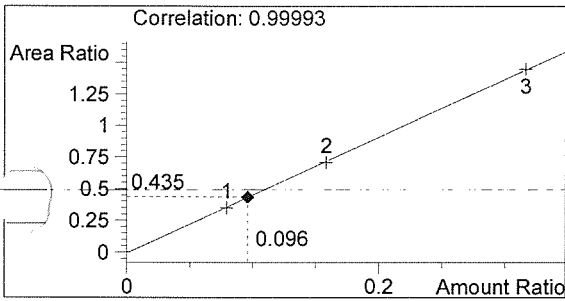
M PEMBERTON

vial # 21

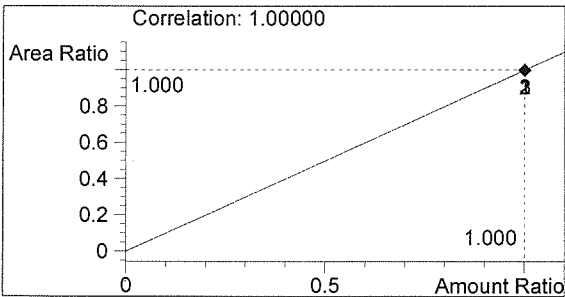


#	Compound	Area	RT
1		86	0.890
2	ETHANOL	1501	1.096
3	n-PROPANOL	3449	1.760

Totals:



ETHANOL 0.096 g/100mL



n-PROPANOL 1.000 g/100mL

FD

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6/26/03 8:16:47 AM

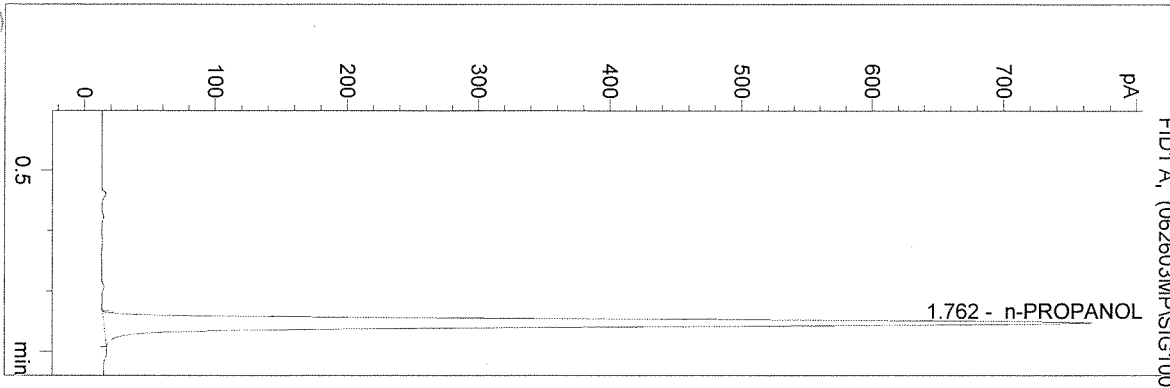
Instrument 3

ALC1

BLK

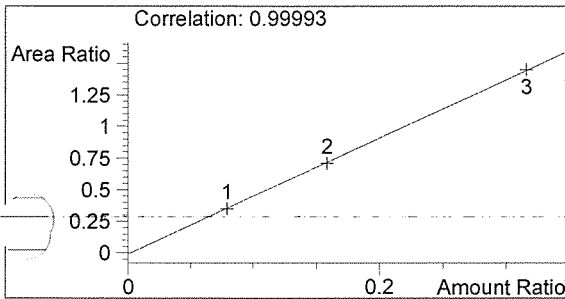
M PEMBERTON

vial # 22

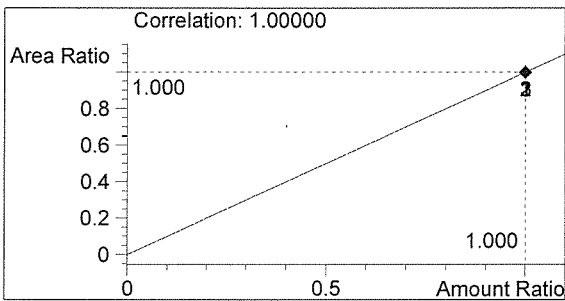


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3345	1.762

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL

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6/30/03 11:16:06 AM

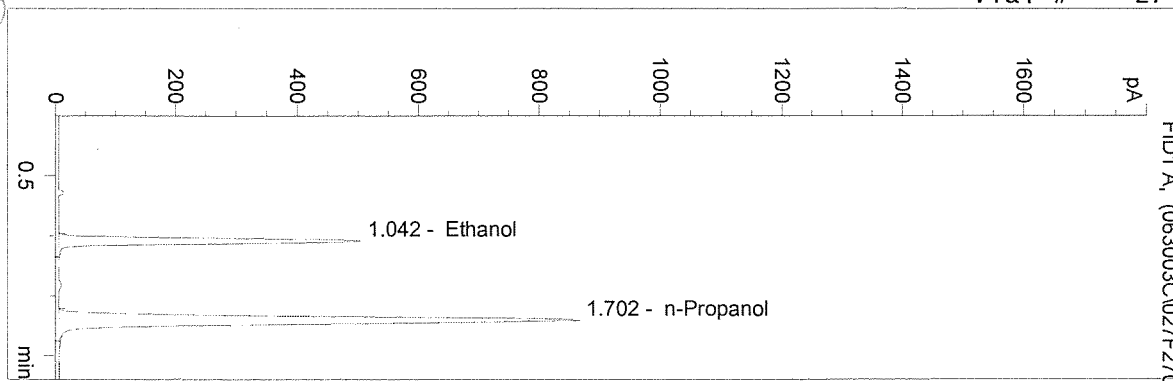
Instrument 1

ALC1

03021

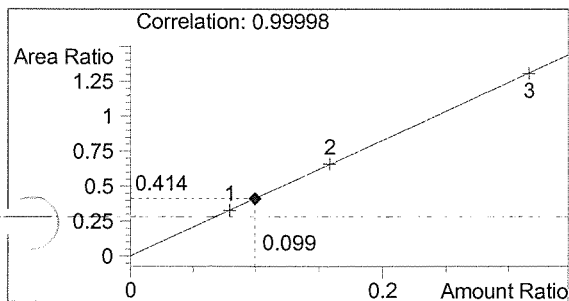
ED FORMOSO

vial # 27

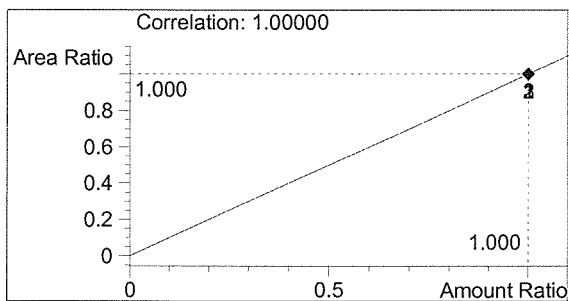


#	Compound	Area	RT
1	Ethanol	1497	1.042
2	n-Propanol	3617	1.702

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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6/30/03 11:19:07 AM

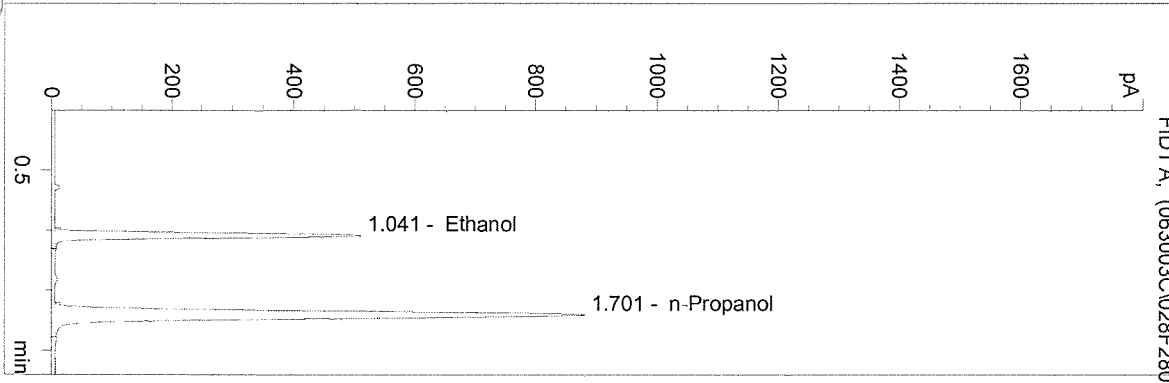
Instrument 1

ALC1

03021

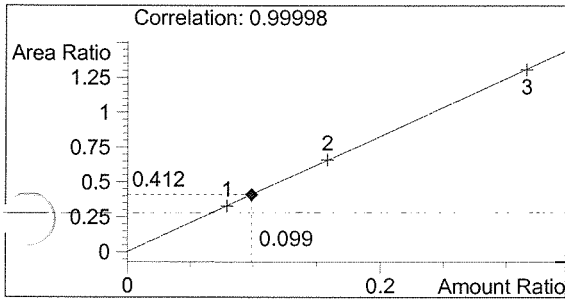
ED FORMOSO

vial # 28

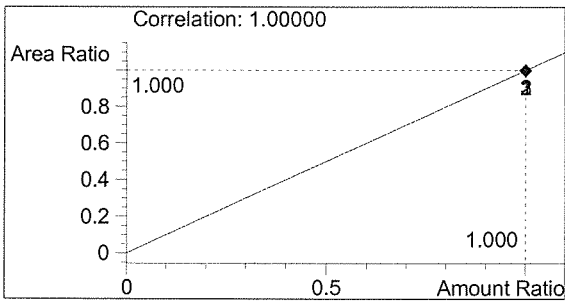


#	Compound	Area	RT
1	Ethanol	1515	1.041
2	n-Propanol	3681	1.701

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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6/30/03 11:22:20 AM

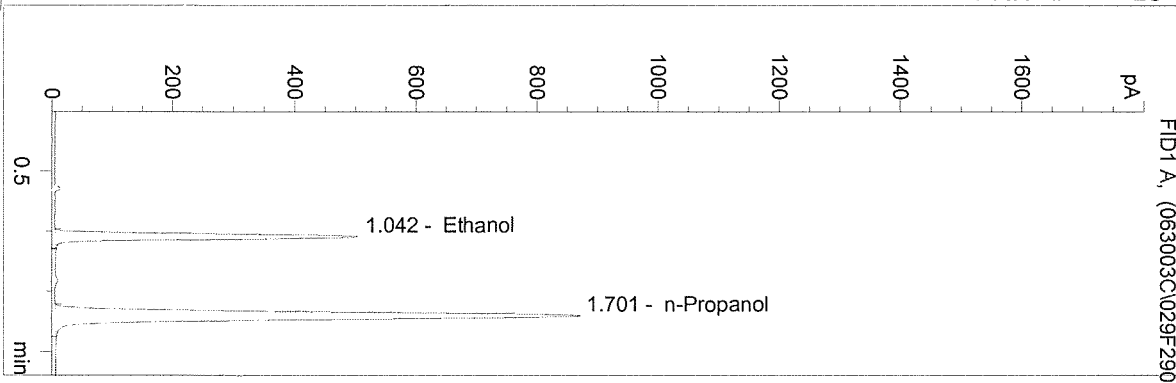
Instrument 1

ALC1

03021

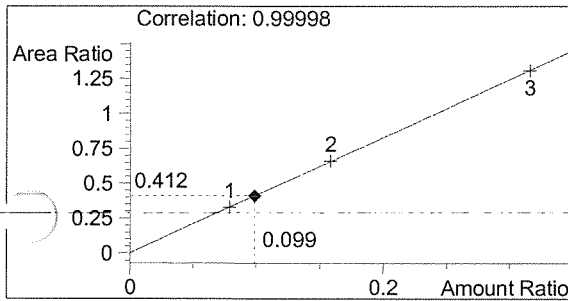
ED FORMOSO

vial # 29

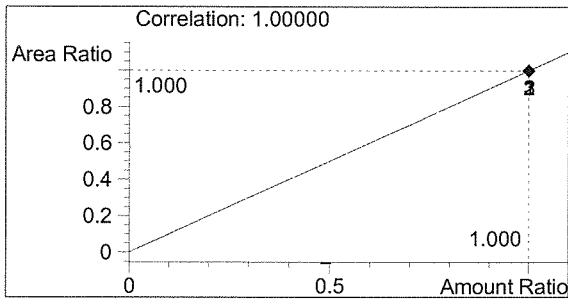


#	Compound	Area	RT
1	Ethanol	1501	1.042
2	n-Propanol	3645	1.701

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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

6/30/03 11:25:23 AM

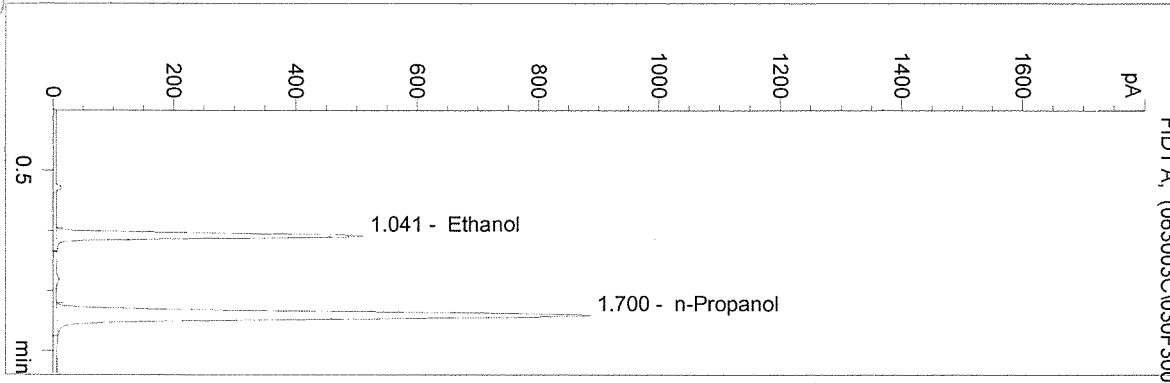
Instrument 1

ALC1

03021

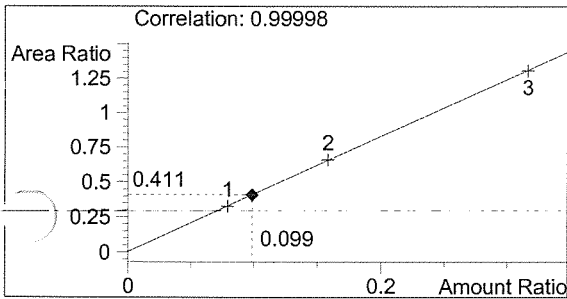
ED FORMOSO

vial # 30

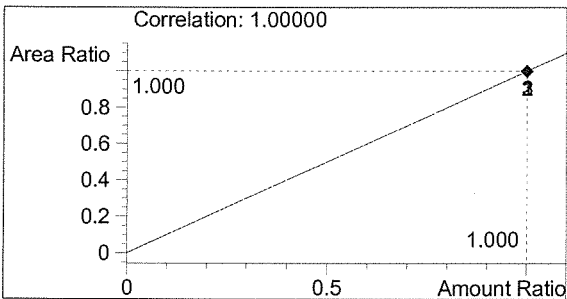


#	Compound	Area	RT
1	Ethanol	1524	1.041
2	n-Propanol	3708	1.700

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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

6/30/03 11:28:25 AM

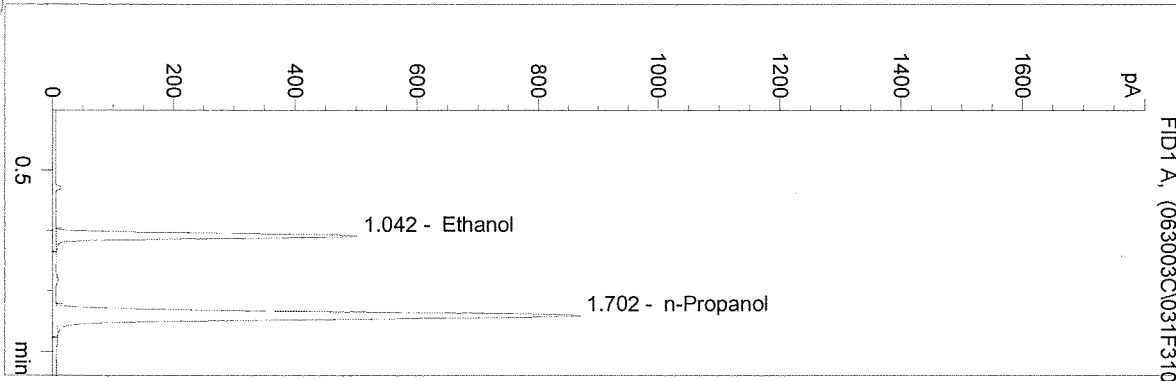
Instrument 1

ALC1

03021

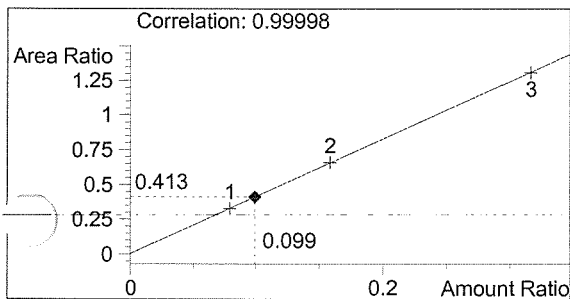
ED FORMOSO

vial # 31

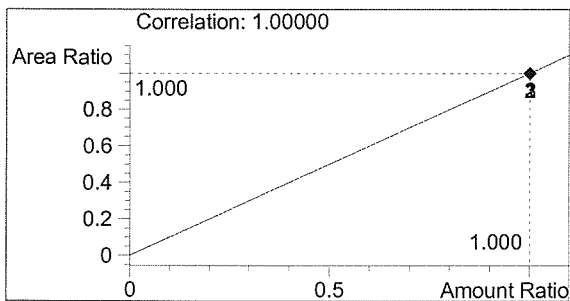


#	Compound	Area	RT
1	Ethanol	1508	1.042
2	n-Propanol	3649	1.702

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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

6/30/03 11:31:27 AM

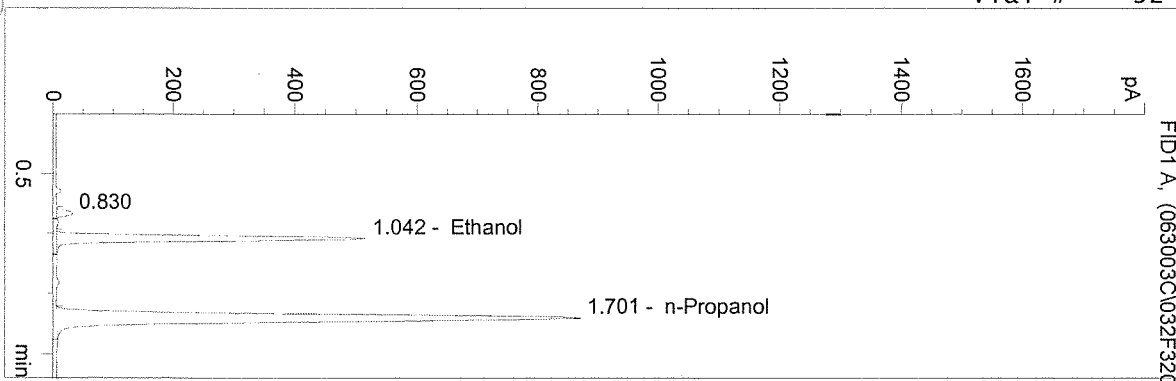
Instrument 1

ALC1

0.10 CONTROL

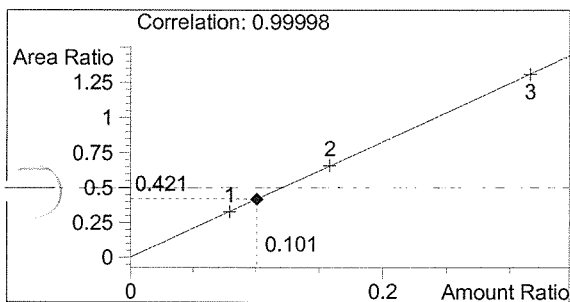
ED FORMOSO

vial # 32

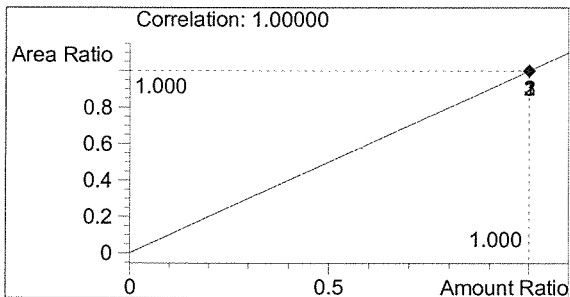


#	Compound	Area	RT
1		80	0.830
2	Ethanol	1525	1.042
3	n-Propanol	3626	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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

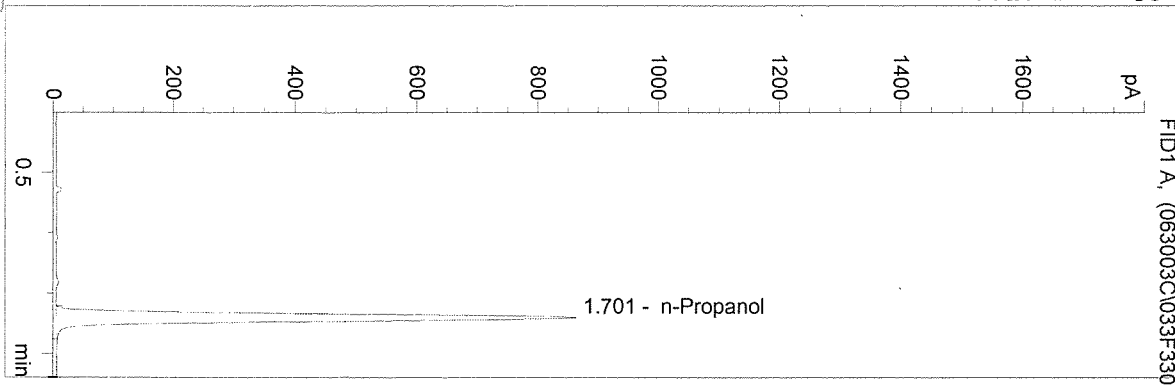
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Instrument 1

ALC1

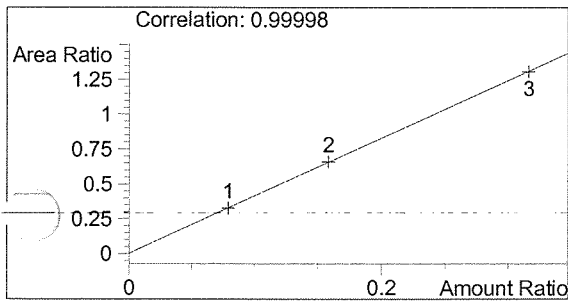
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ED FORMOSO

vial # 33

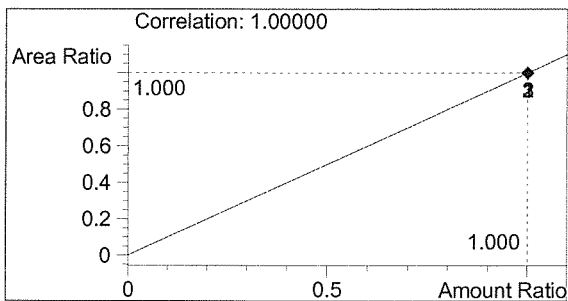


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3618	1.701

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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

7/1/03 9:40:20 AM

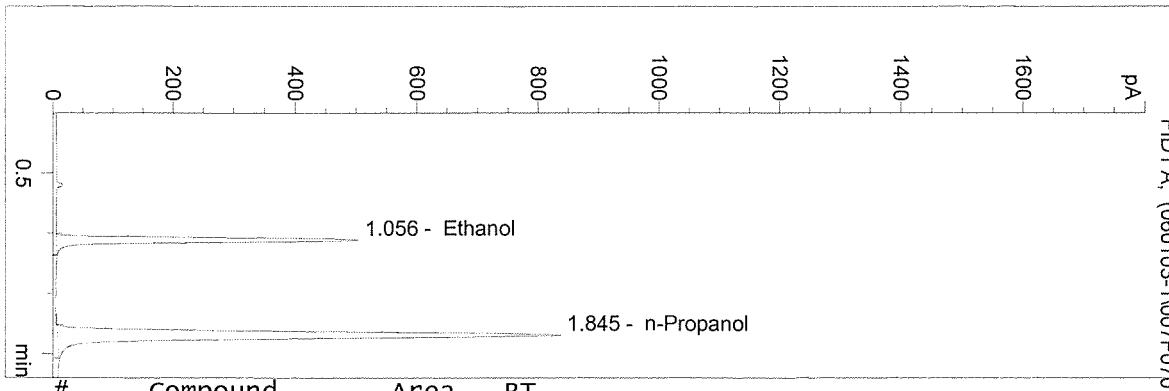
Instrument 2

ALC1

03021

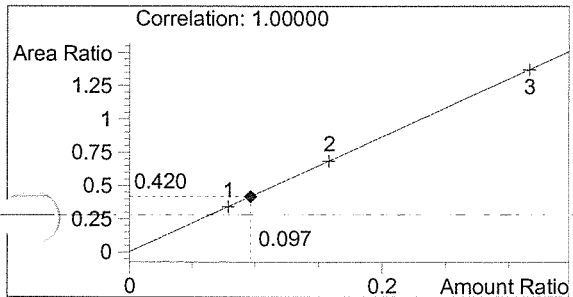
MARY WILSON

vial # 7

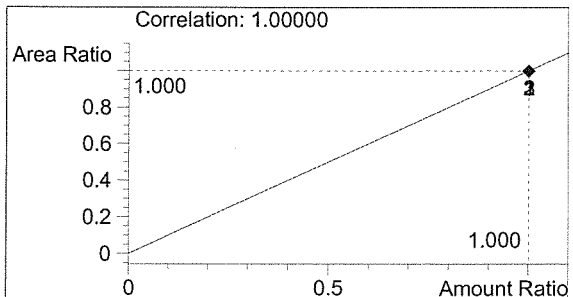


#	Compound	Area	RT
1	Ethanol	1356	1.056
2	n-Propanol	3227	1.845

Totals:



Ethanol 0.097 g/100ml



n-Propanol 1.000 g/100ml

Cal c 034052

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

7/1/03 9:43:22 AM

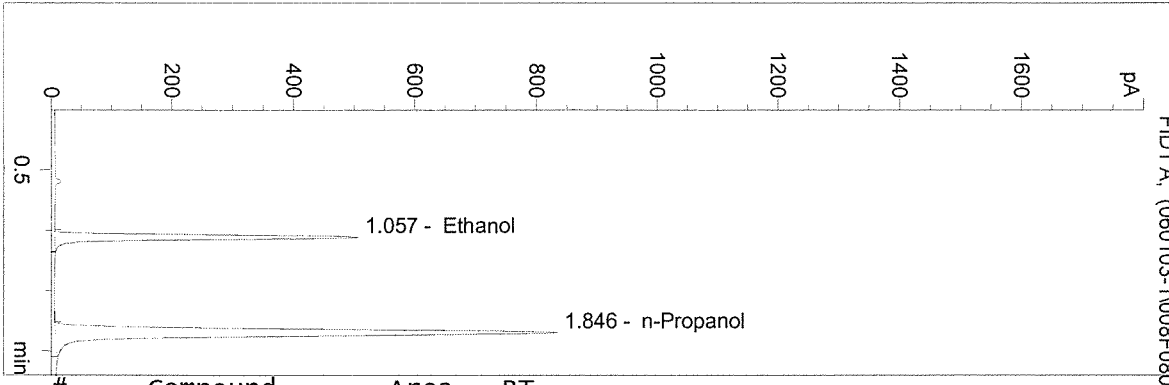
Instrument 2

ALC1

03021

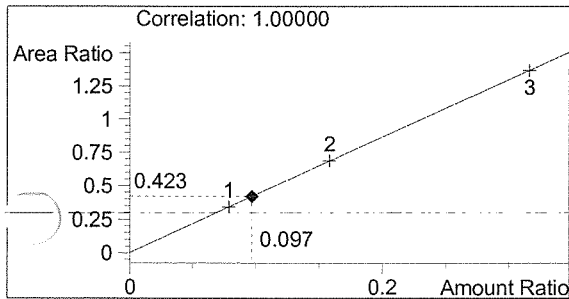
MARY WILSON

vial # 8

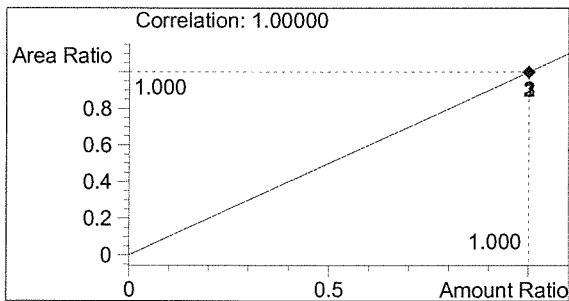


#	Compound	Area	RT
1	Ethanol	1360	1.057
2	n-Propanol	3217	1.846

Totals:



Ethanol 0.097 g/100ml



n-Propanol 1.000 g/100ml

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

7/1/03 9:46:36 AM

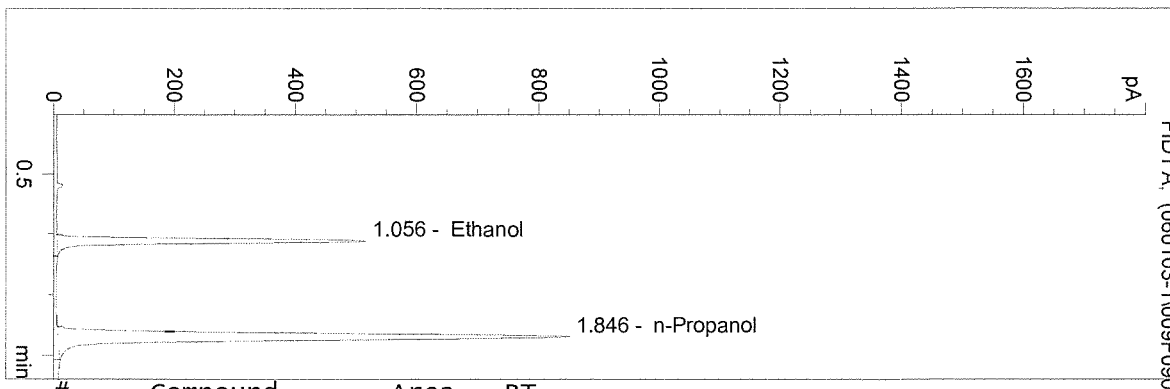
Instrument 2

ALC1

03021

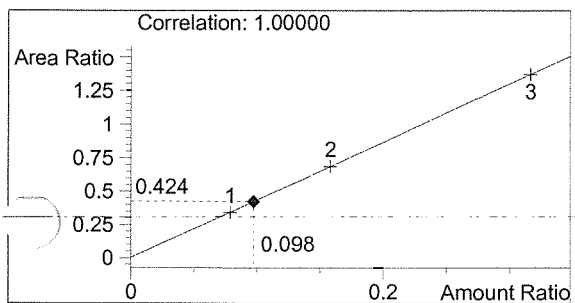
MARY WILSON

vial # 9

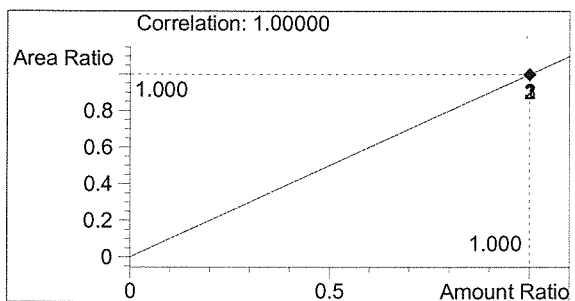


#	Compound	Area	RT
1	Ethanol	1389	1.056
2	n-Propanol	3277	1.846

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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

7/1/03 9:49:38 AM

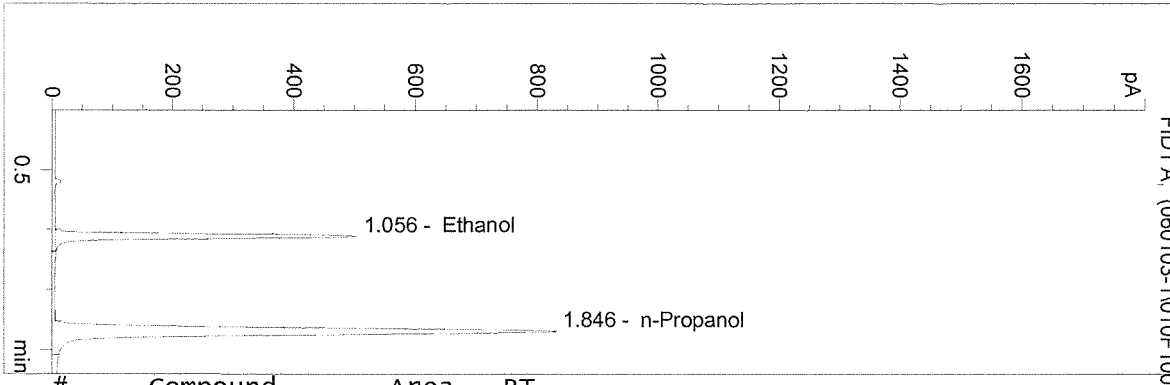
Instrument 2

ALC1

03021

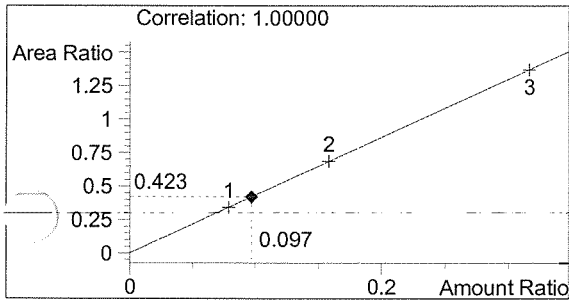
MARY WILSON

vial # 10

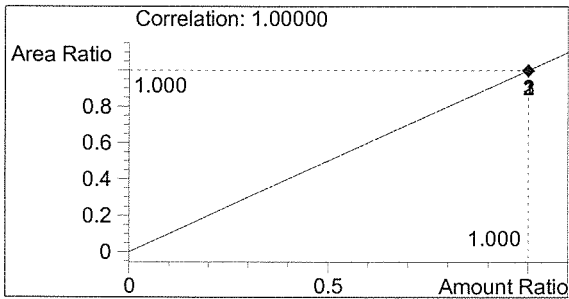


#	Compound	Area	RT
1	Ethanol	1355	1.056
2	n-Propanol	3203	1.846

Totals:



Ethanol 0.097 g/100ml



n-Propanol 1.000 g/100ml

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7/1/03 9:52:40 AM

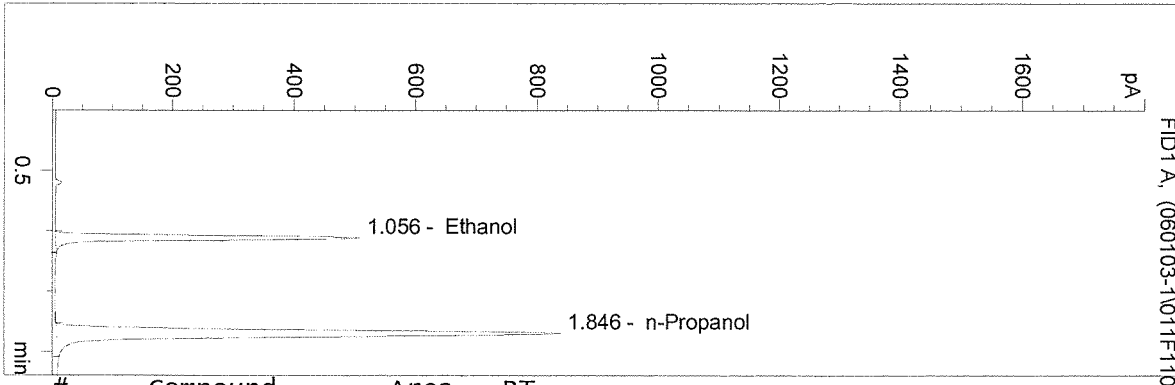
Instrument 2

ALC1

03021

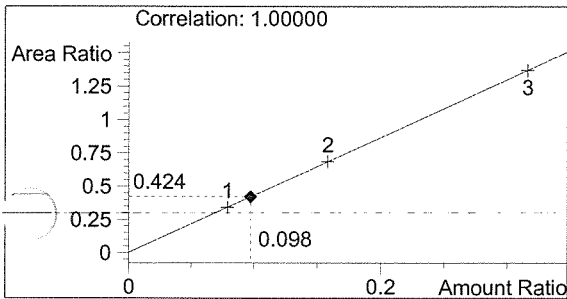
MARY WILSON

vial # 11

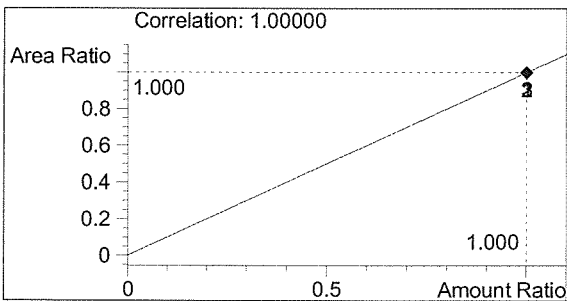


#	Compound	Area	RT
1	Ethanol	1369	1.056
2	n-Propanol	3229	1.846

Totals:



Ethanol 0.098 g/100ml

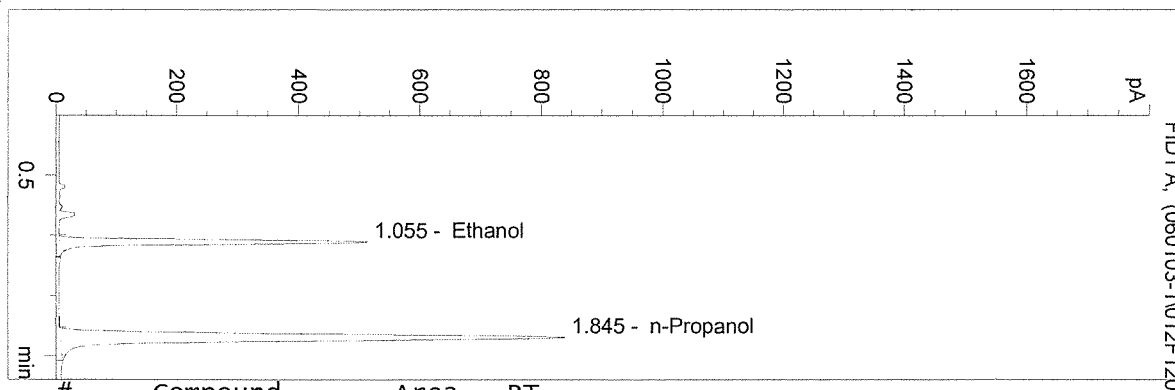


n-Propanol 1.000 g/100ml

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 7/1/03 9:55:42 AM
 Instrument 2
 ALC1

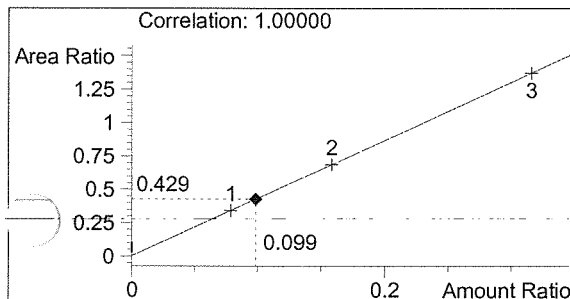
0.10CTL
 MARY WILSON

vial # 12

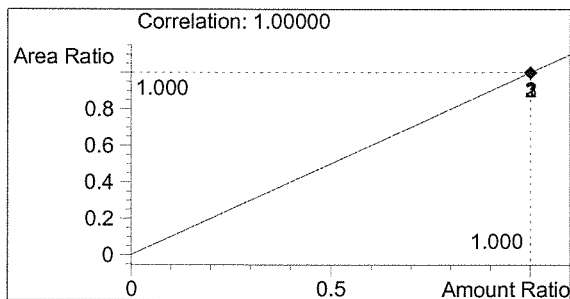


#	Compound	Area	RT
1	Ethanol	1389	1.055
2	n-Propanol	3240	1.845

Totals:



Ethanol 0.099 g/100ml

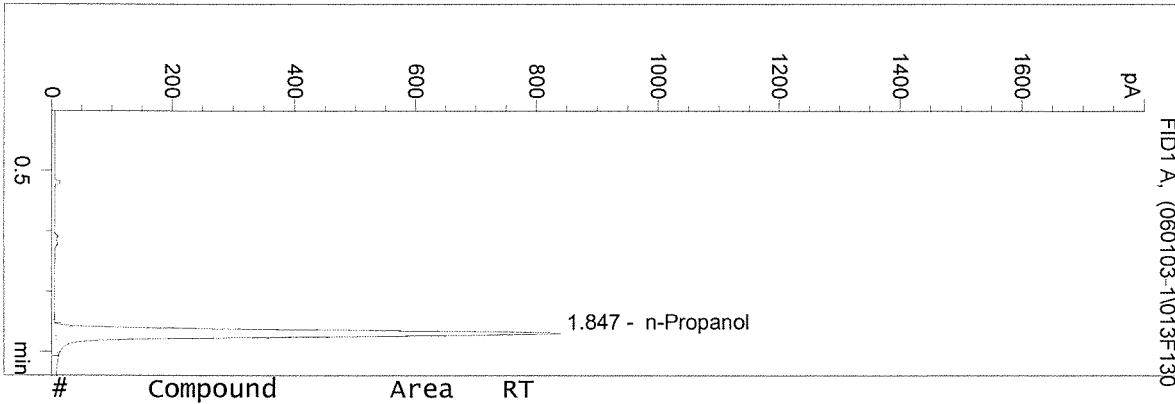


n-Propanol 1.000 g/100ml

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 7/1/03 9:58:56 AM
 Instrument 2
 ALC1

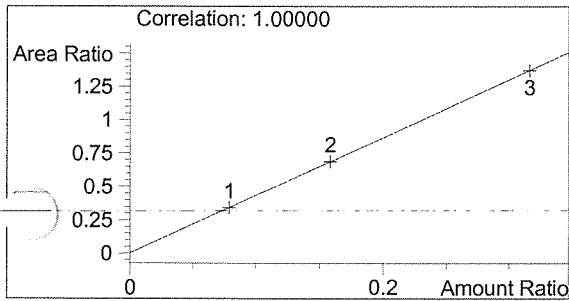
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 MARY WILSON

vial # 13

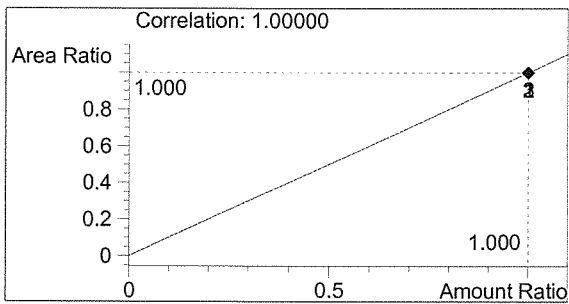


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3228	1.847

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml