

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 **0.15 g/210L Quality Assurance solution**

Date: 6/26/2003

Batch number **03023**

Preparation: 42.3 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	0.178	0.187	0.183									
2	0.178	0.188	0.186									
3	0.180	0.188	0.185									
4	0.180	0.188	0.184									
5	0.180	0.187	0.185									
Ctrl	0.096	0.103	0.100									

External Control:

Lot #: a022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

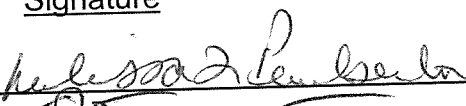
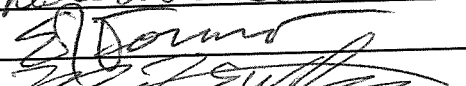
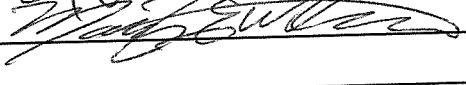
Avg. solution concent.: 0.1838 g/100 mL

SD: 0.00371

Range (3xSD): 0.1727 to 0.1949

Precision CV (%): 2.0169 %

Equivalent vapor concent.: 0.1494 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			
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11			
12			

Prepared by: Melissa Pemberton according to the approved protocol



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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 03023 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1838 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 03023, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1838 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

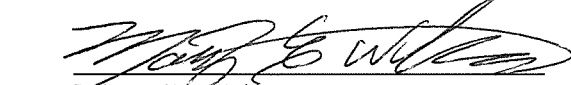
I, Mary E. Wilson, do certify under penalty of perjury as follows:

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 03023, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1838 grams per 100ml.

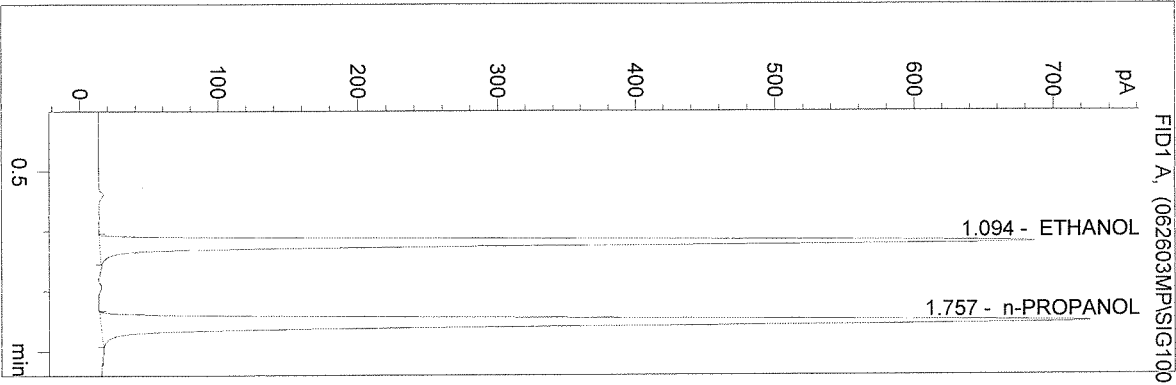
Dated: 7/7/03
Seattle, WA


Mary E. Wilson
Forensic Toxicologist

MEW/bf
MEWQA

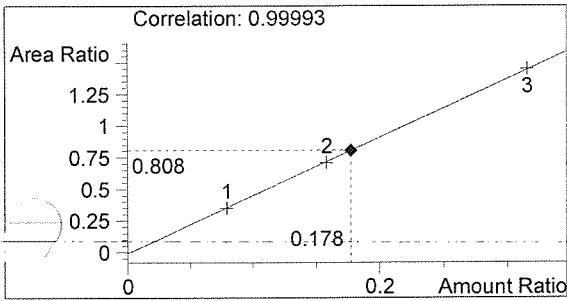


vial # 30

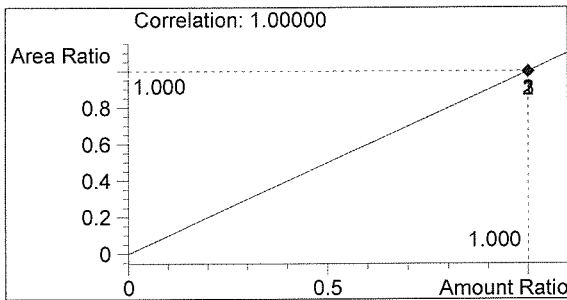


#	Compound	Area	RT
1	ETHANOL	2589	1.094
2	n-PROPANOL	3204	1.757

Totals:

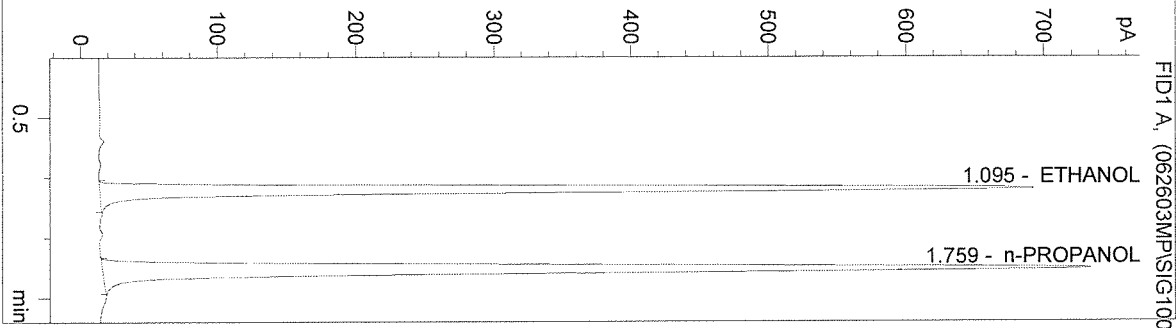


ETHANOL 0.178 g/100mL



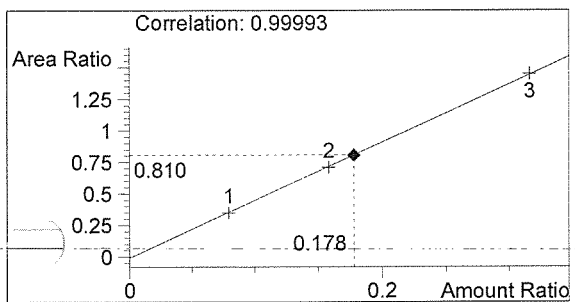
n-PROPANOL 1.000 g/100mL

vial # 31

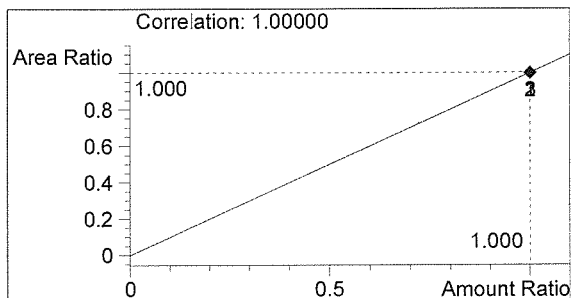


#	Compound	Area	RT
1	ETHANOL	2630	1.095
2	n-PROPANOL	3248	1.759

Totals:

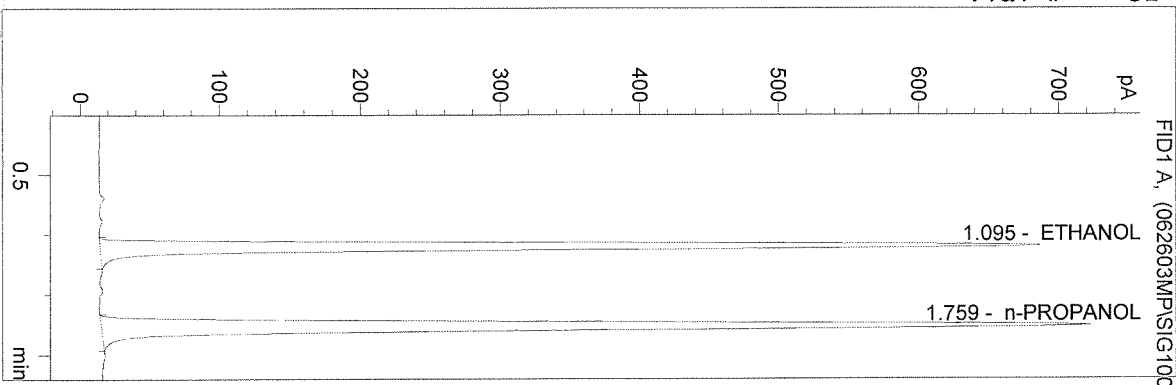


ETHANOL 0.178 g/100mL



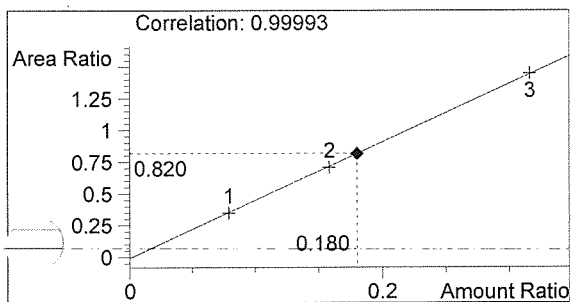
n-PROPANOL 1.000 g/100mL

vial # 32

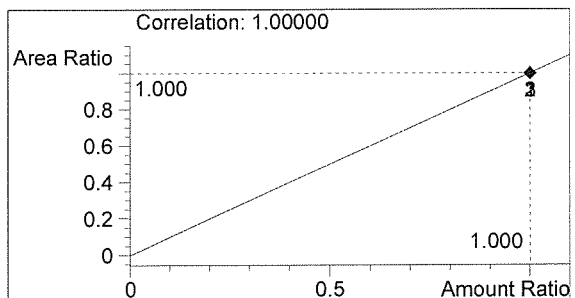


#	Compound	Area	RT
1	ETHANOL	2625	1.095
2	n-PROPANOL	3202	1.759

Totals:

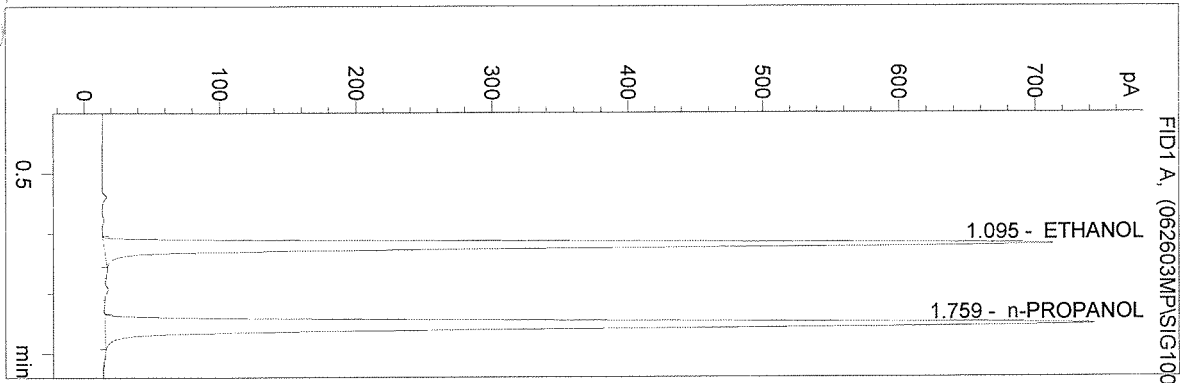


ETHANOL 0.180 g/100mL



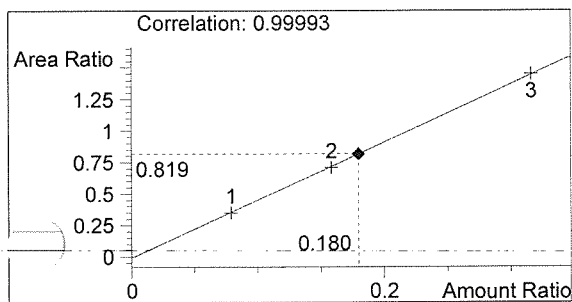
n-PROPANOL 1.000 g/100mL

vial # 33

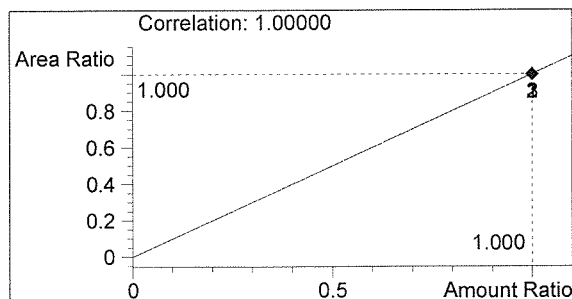


#	Compound	Area	RT
1	ETHANOL	2688	1.095
2	n-PROPANOL	3283	1.759

Totals:

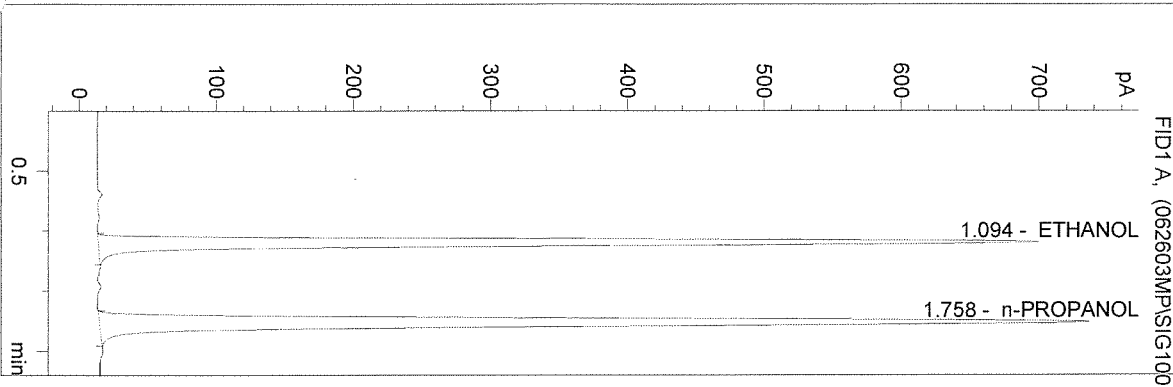


ETHANOL 0.180 g/100mL



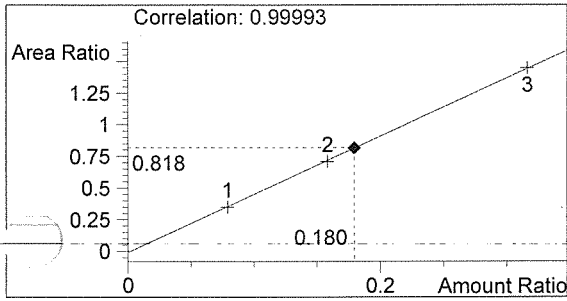
n-PROPANOL 1.000 g/100mL

vial # 34

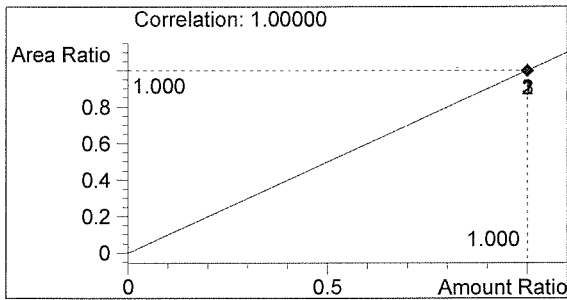


#	Compound	Area	RT
1	ETHANOL	2656	1.094
2	n-PROPANOL	3248	1.758

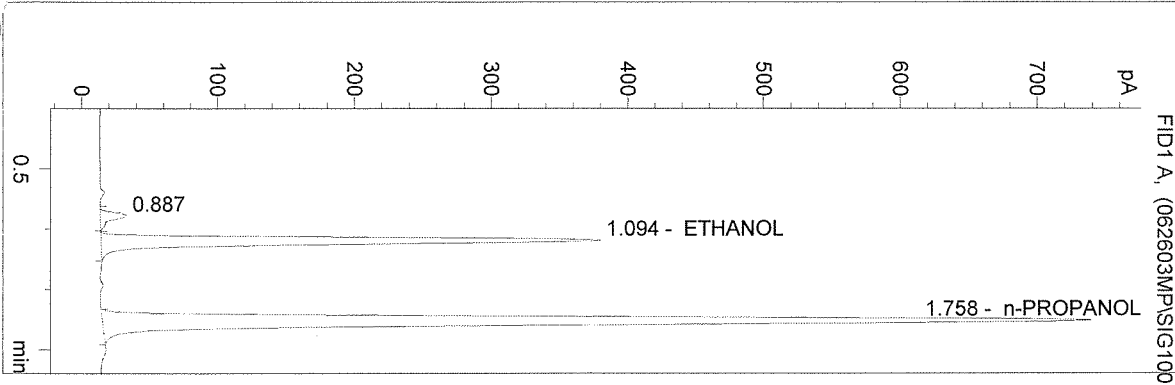
Totals:



ETHANOL 0.180 g/100mL

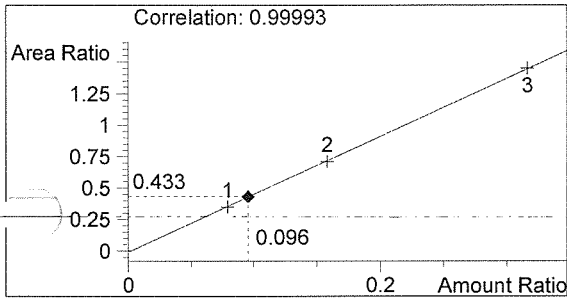


n-PROPANOL 1.000 g/100mL

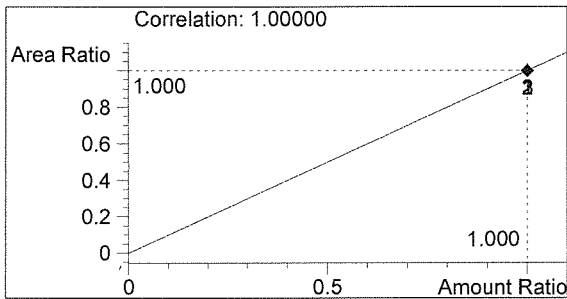


#	Compound	Area	RT
1		81	0.887
2	ETHANOL	1411	1.094
3	n-PROPANOL	3263	1.758

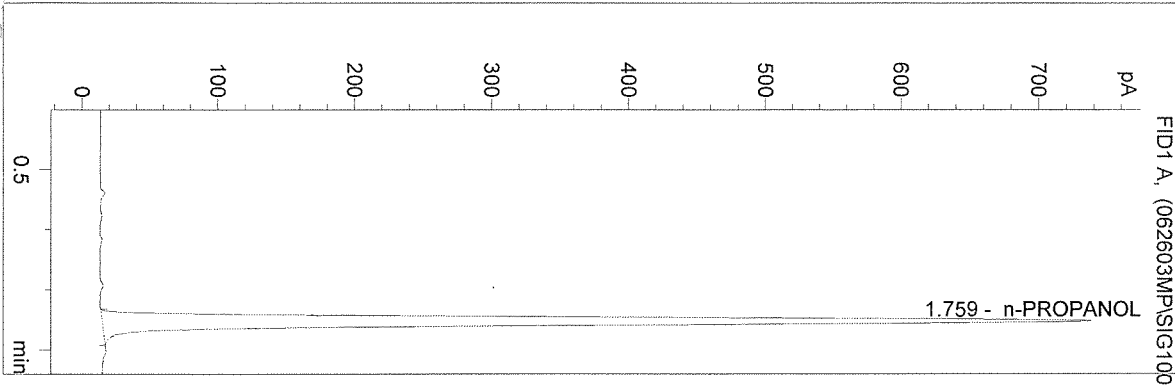
Totals:



ETHANOL 0.096 g/100mL

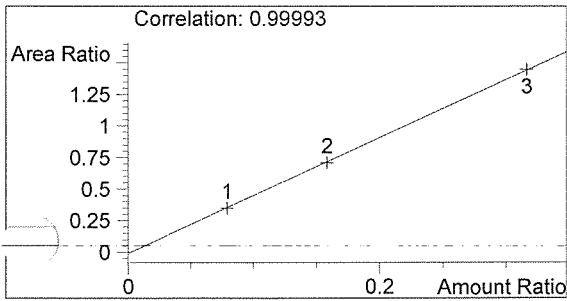


n-PROPANOL 1.000 g/100mL

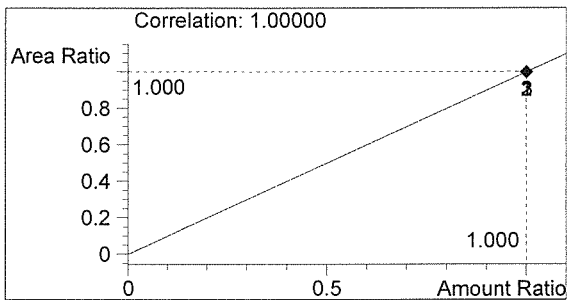


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3235	1.759

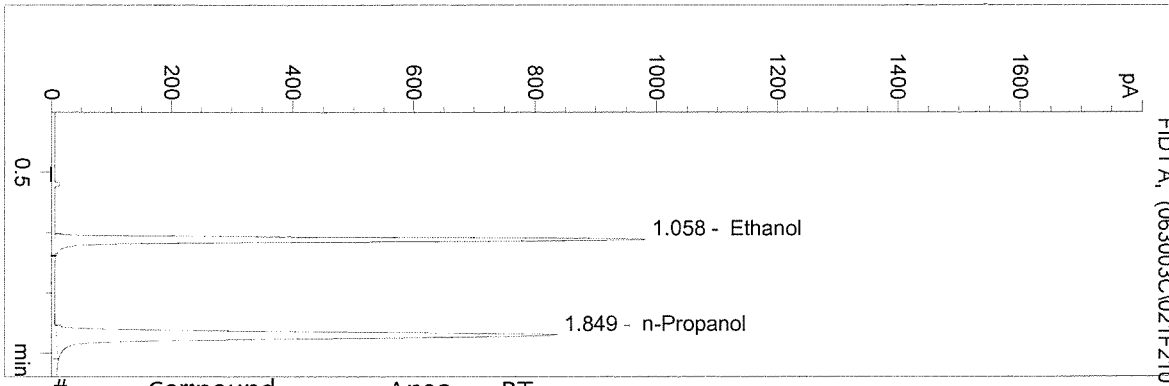
Totals:



ETHANOL 0.000 g/100mL

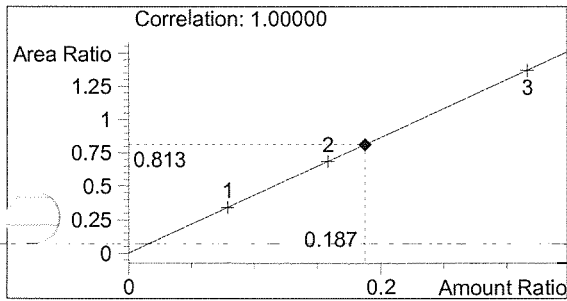


n-PROPANOL 1.000 g/100mL

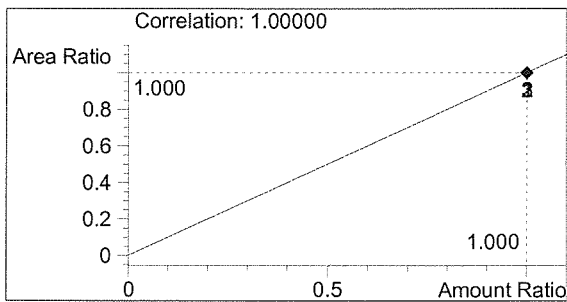


#	Compound	Area	RT
1	Ethanol	2621	1.058
2	n-Propanol	3222	1.849

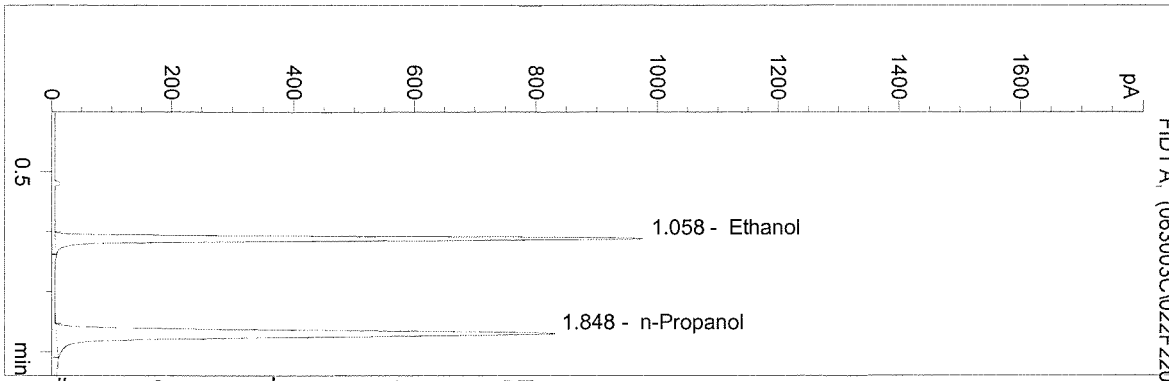
Totals:



Ethanol 0.187 g/100ml

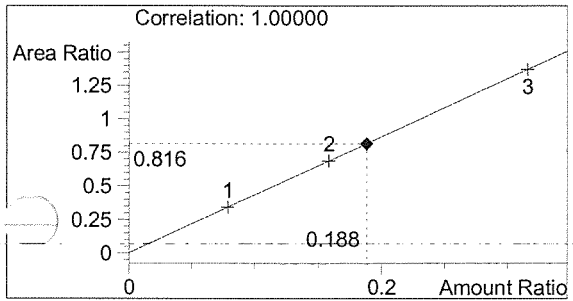


n-Propanol 1.000 g/100ml

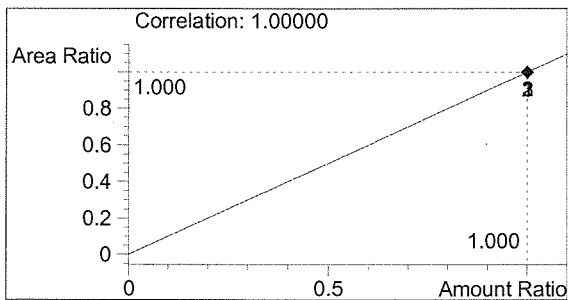


#	Compound	Area	RT
1	Ethanol	2614	1.058
2	n-Propanol	3203	1.848

Totals:

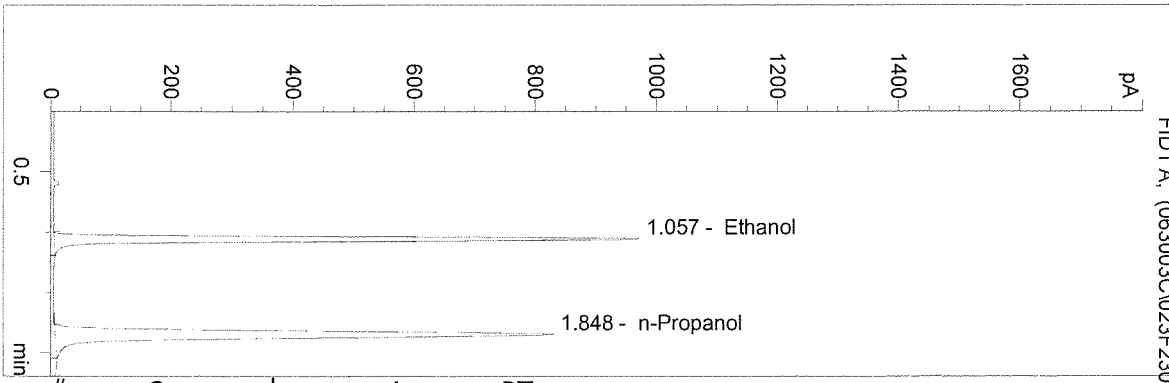


Ethanol 0.188 g/100ml



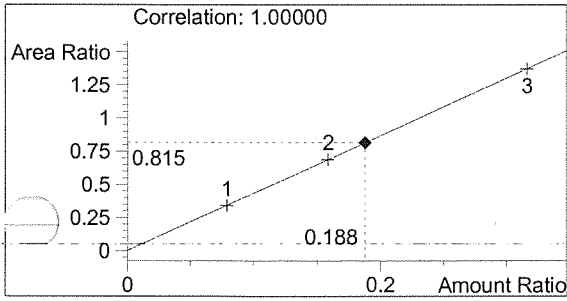
n-Propanol 1.000 g/100ml

vial # 23

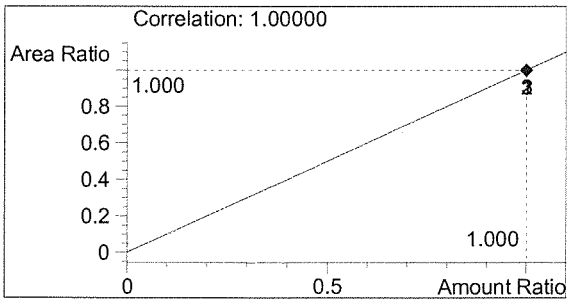


#	Compound	Area	RT
1	Ethanol	2601	1.057
2	n-Propanol	3193	1.848

Totals:

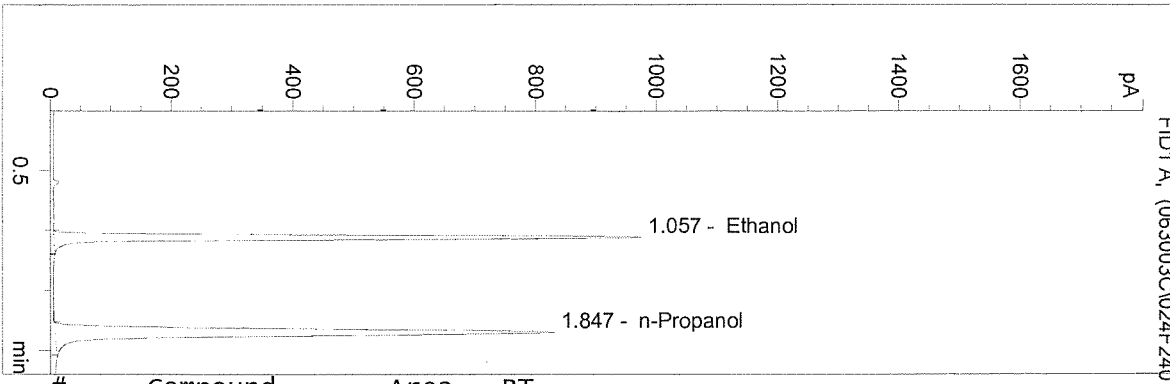


Ethanol 0.188 g/100ml



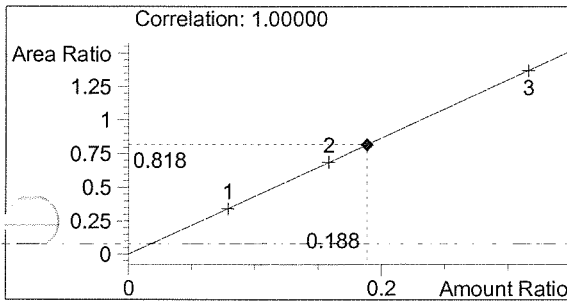
n-Propanol 1.000 g/100ml

vial # 24

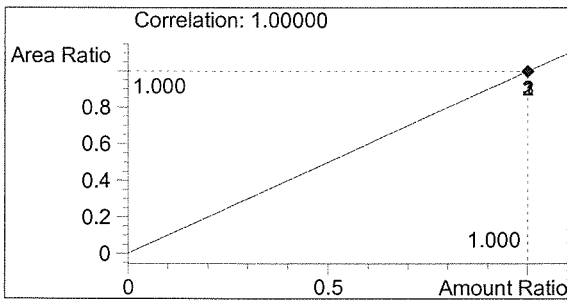


#	Compound	Area	RT
1	Ethanol	2614	1.057
2	n-Propanol	3196	1.847

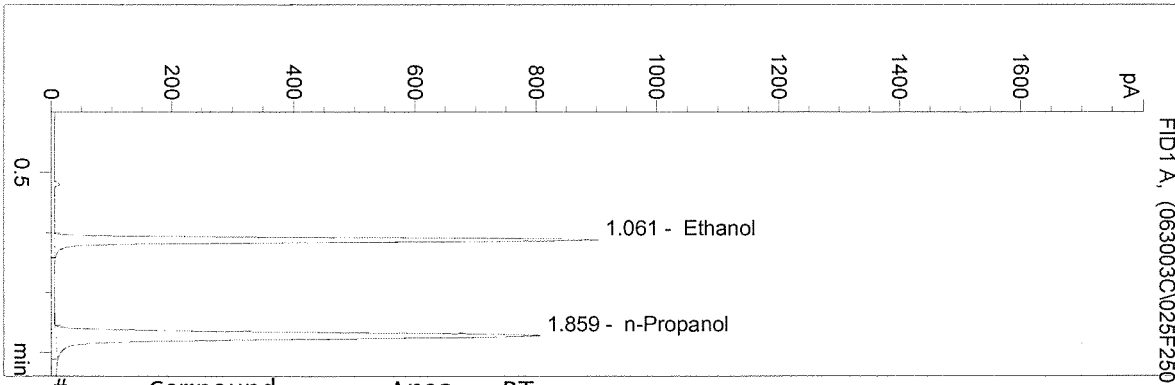
Totals:



Ethanol 0.188 g/100ml

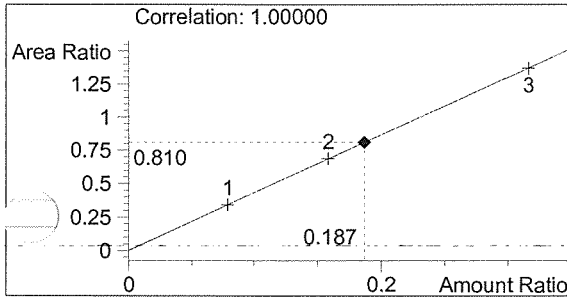


n-Propanol 1.000 g/100ml

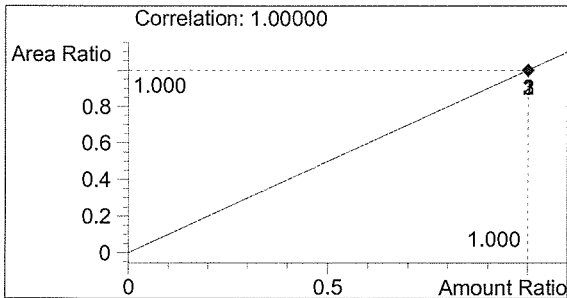


#	Compound	Area	RT
1	Ethanol	2496	1.061
2	n-Propanol	3082	1.859

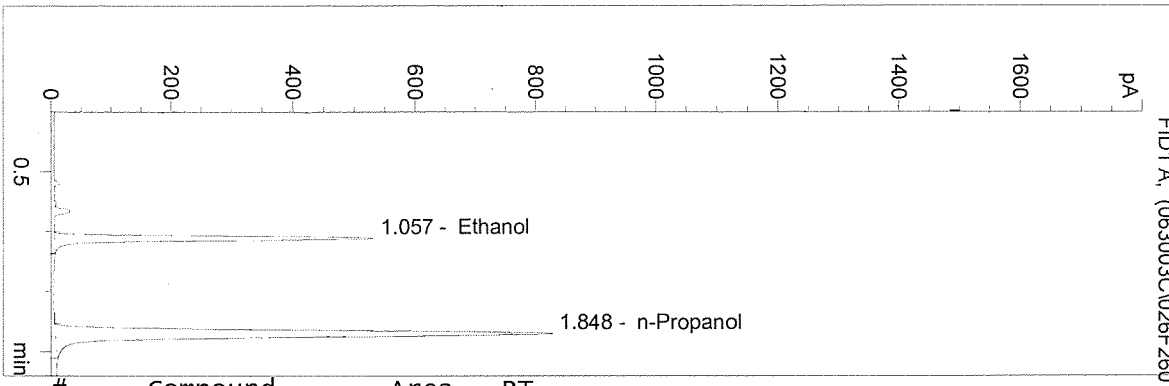
Totals:



Ethanol 0.187 g/100ml

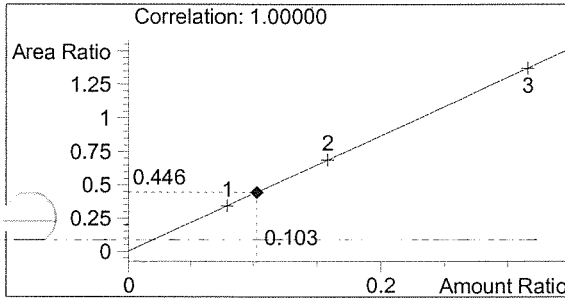


n-Propanol 1.000 g/100ml

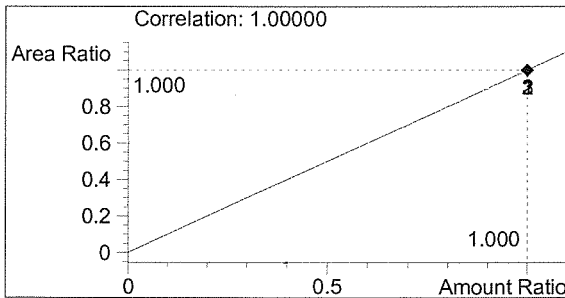


#	Compound	Area	RT
1	Ethanol	1428	1.057
2	n-Propanol	3199	1.848

Totals:

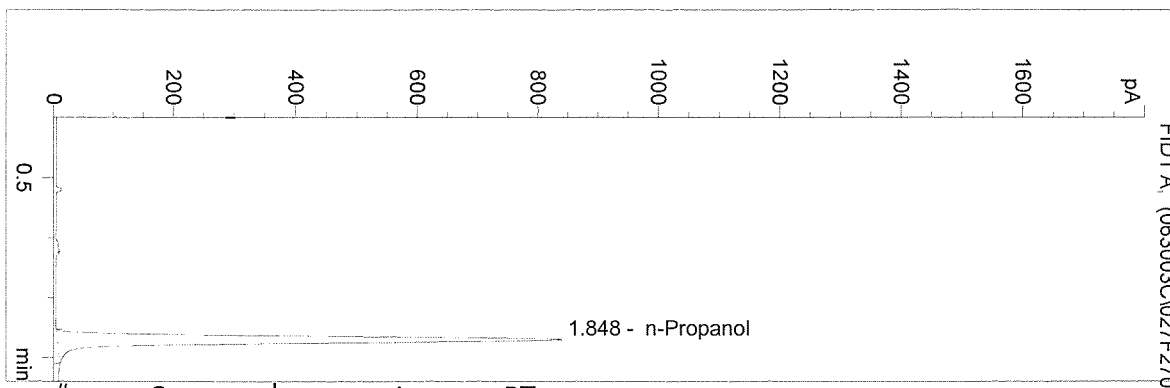


Ethanol 0.103 g/100ml



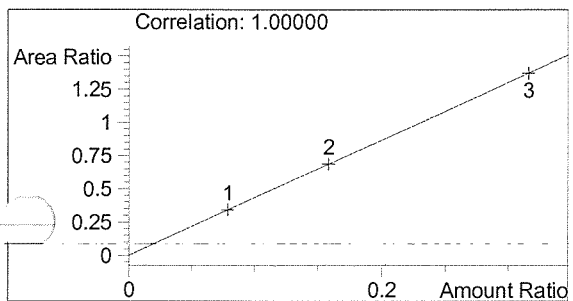
n-Propanol 1.000 g/100ml

vial # 27

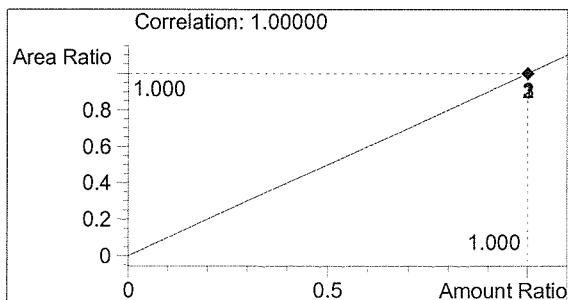


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3232	1.848

Totals:

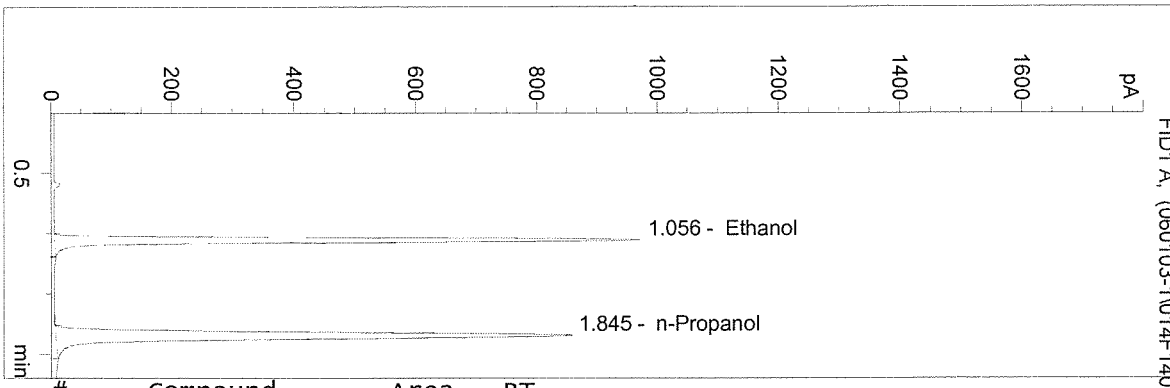


Ethanol 0.000 g/100ml



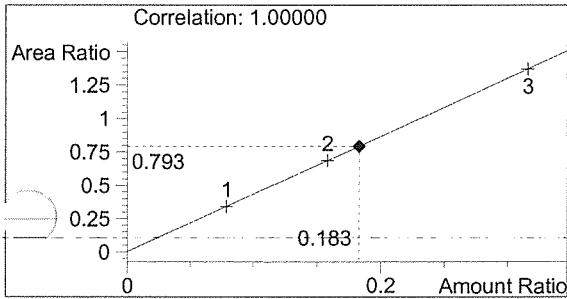
n-Propanol 1.000 g/100ml

vial # 14

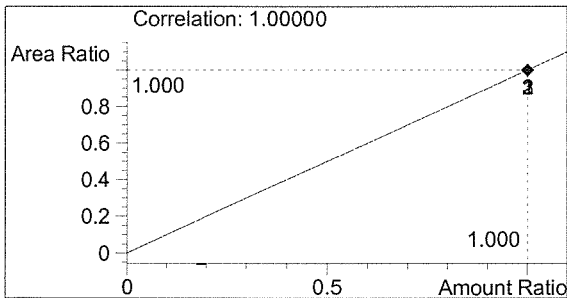


#	Compound	Area	RT
1	Ethanol	2618	1.056
2	n-Propanol	3300	1.845

Totals:



Ethanol 0.183 g/100ml

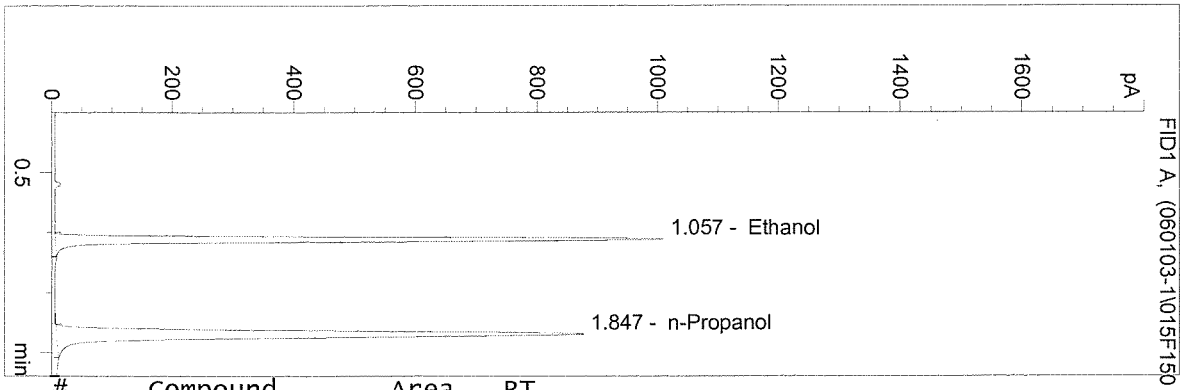


n-Propanol 1.000 g/100ml

Calc

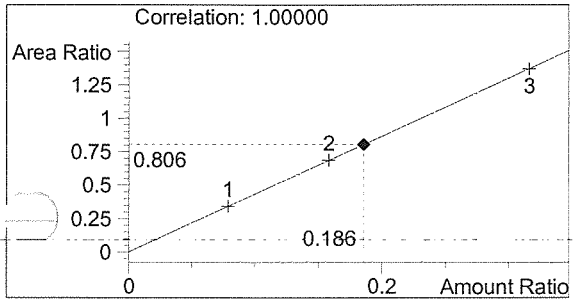
034052

vial # 15

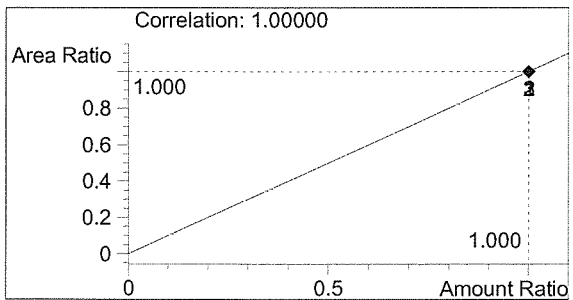


#	Compound	Area	RT
1	Ethanol	2715	1.057
2	n-Propanol	3370	1.847

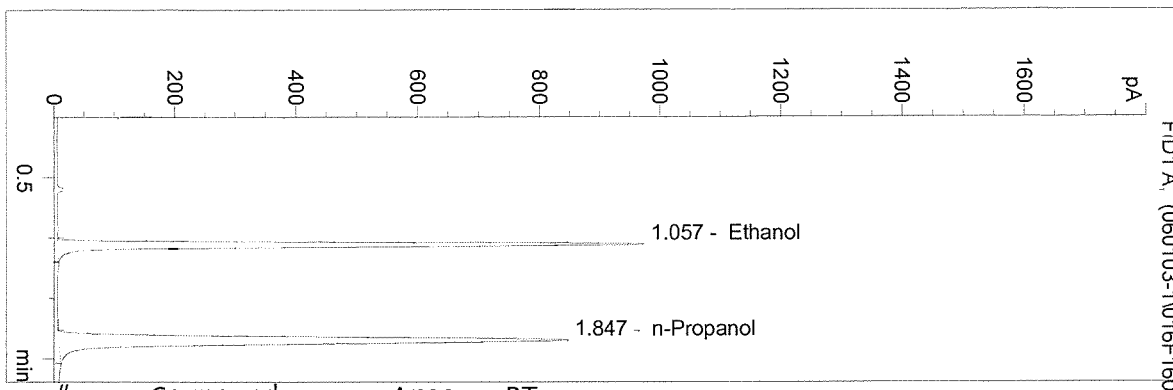
Totals:



Ethanol 0.186 g/100ml

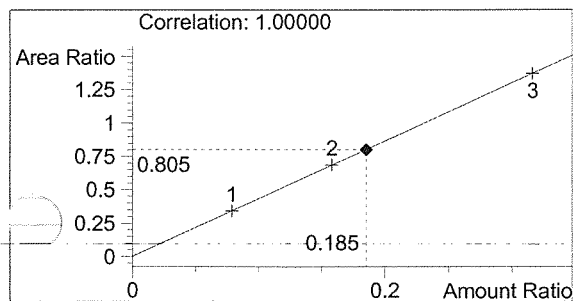


n-Propanol 1.000 g/100ml

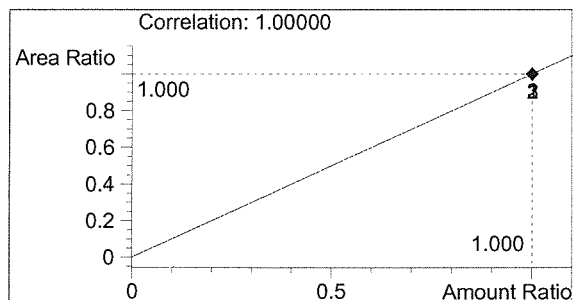


#	Compound	Area	RT
1	Ethanol	2617	1.057
2	n-Propanol	3252	1.847

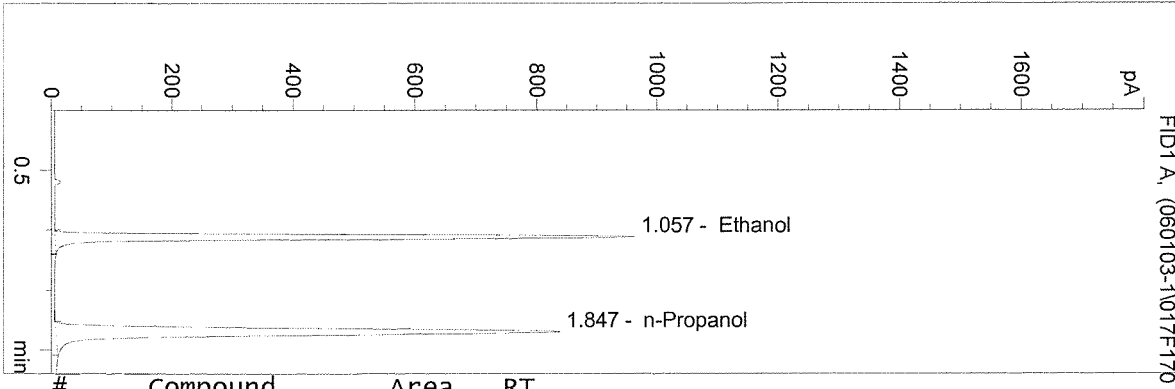
Totals:



Ethanol 0.185 g/100ml

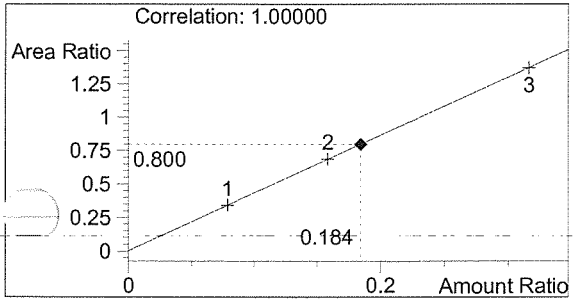


n-Propanol 1.000 g/100ml

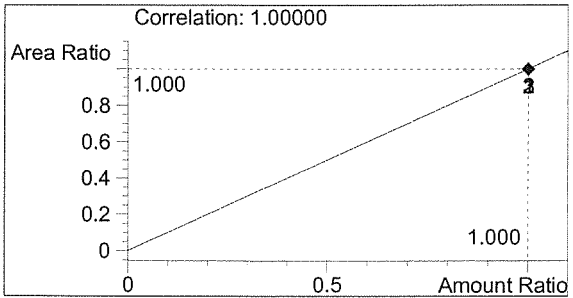


#	Compound	Area	RT
1	Ethanol	2579	1.057
2	n-Propanol	3223	1.847

Totals:

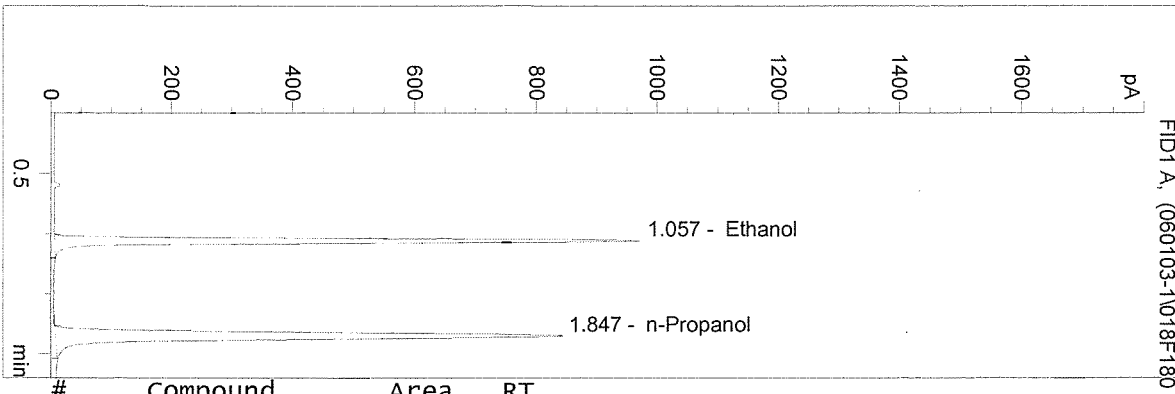


Ethanol 0.184 g/100ml



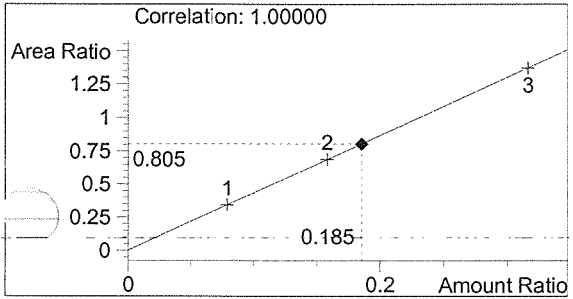
n-Propanol 1.000 g/100ml

vial # 18

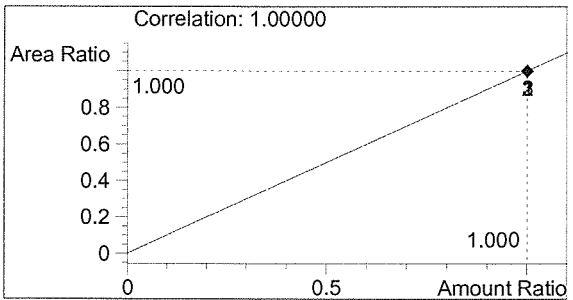


#	Compound	Area	RT
1	Ethanol	2600	1.057
2	n-Propanol	3231	1.847

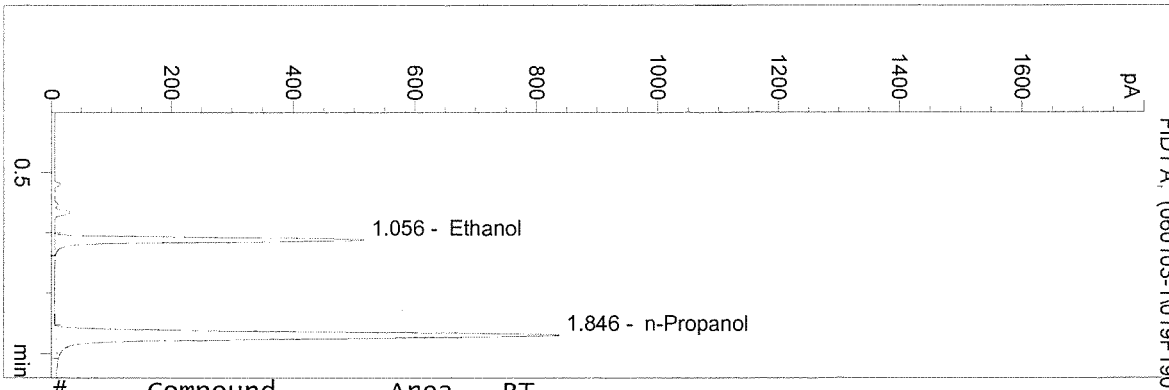
Totals:



Ethanol 0.185 g/100ml

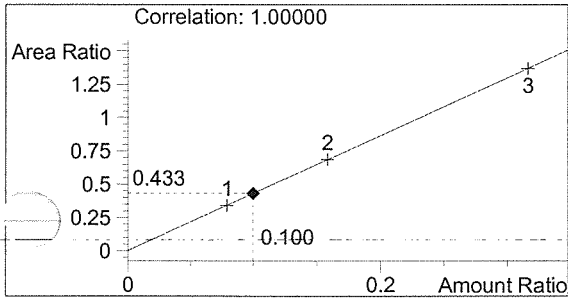


n-Propanol 1.000 g/100ml

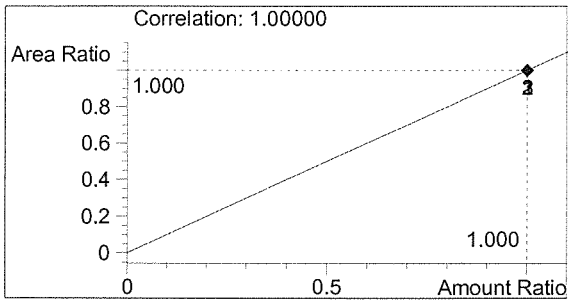


#	Compound	Area	RT
1	Ethanol	1396	1.056
2	n-Propanol	3222	1.846

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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

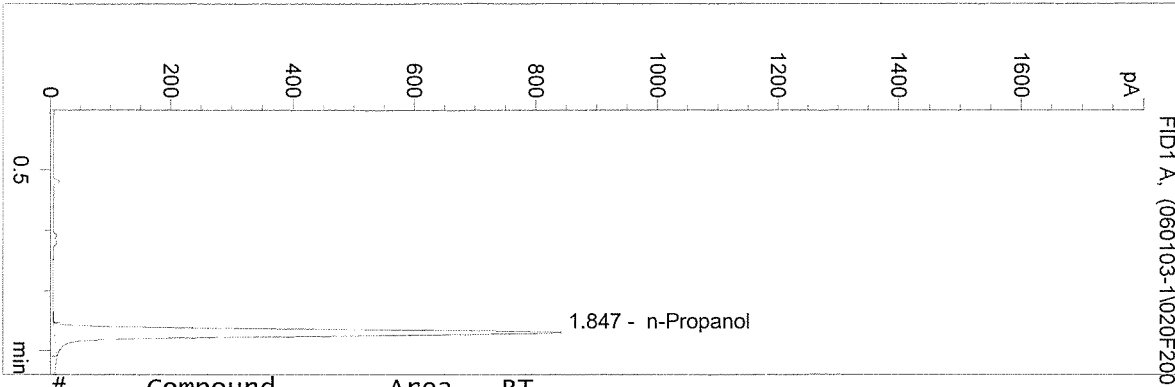
7/1/03 10:20:18 AM

Instrument 2

ALC1

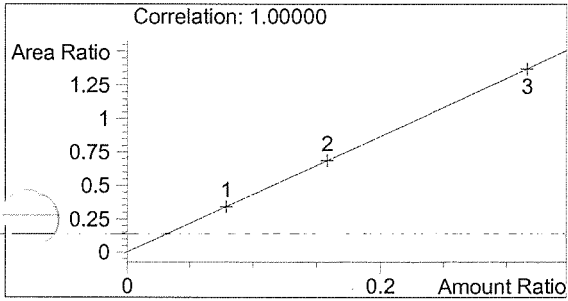
BLANK
MARY WILSON

vial # 20

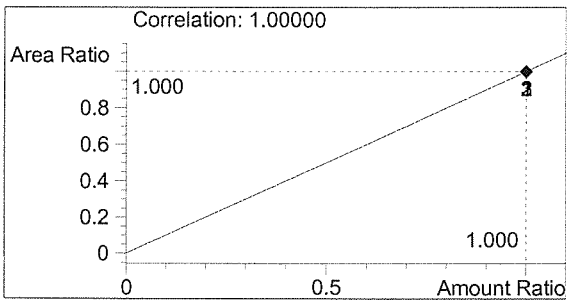


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3241	1.847

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml