

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



Reviewer/s: KENDENTON / ROA GULLBERG Date: 12-28-2007  
 Location: TOX LAB SEATTLE Solution Batch Number: 01041

	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Range correct if applicable:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent vapor concentration correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Control information correct: (lot # present and future date)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complies with accuracy and precision requirements established by the State Toxicologist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CV% Correct?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Comments:**

STANDARD DEVIATION NOT RECORDED

Reviewer Signature:  Date: 12-28-2007

Reviewer Signature:  Date: 12/28/2007

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

Batch number **01041**

Date: 11/26/2001

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	0.185	0.184	0.185									
2	0.186	0.186	0.184									
3	0.187	0.185	0.185									
4	0.186	0.185	0.184									
5	0.185	0.185	0.184									
Ctrl	0.102	0.101	0.102									

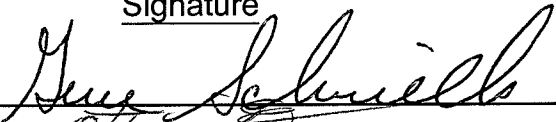

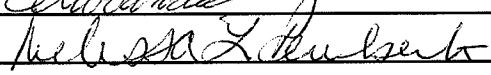
**CAP Control:**

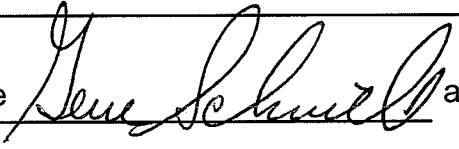
Lot #: 8180      Exp date: 6/22/02  
 Target concentration: 0.101 g/100mL

**Statistics:**

Avg. solution concent.: 0.1851 g/100 mL  
 SD: 0.00088  
 Range (3xSD): 0.1824 to 0.1877  
 Precision CV (%): 0.4775 % 0.4774

**Equivalent vapor concent.:** 0.1505 g/210L

Analyst	Name	Signature	Date
1	Eugene Schwilke		11/29/01
2	Estuardo J. Miranda		11/28/01
3	Melissa Pemberton		11/30/01
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Eugene Schwilke  according to the approved protocol



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2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 464-5435 • Fax (206) 389-2738

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION


I, Eugene W. Schwilke, 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: BS degree in Biology and one year of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 01041 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1851 grams per 100ml.

Dated: 12/7/01  
Seattle, WA

  
Eugene W. Schwilke  
Forensic Toxicologist

GS/nf  
GSQA



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION

I, Estuardo J. Miranda, 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 testing instrument.

I possess the following qualifications: Bachelor of Science in Chemistry, Master of Science in Zoology, seven years experience in biochemical research and three years experience in Forensic Toxicology.

The quality assurance solution, Lot Number 01041 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.1851 grams per 100mL.

Dated: 12/7/01  
Seattle, WA

Estuardo J. Miranda  
Forensic Toxicologist

EM/nf  
EMQA

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.

  
1-15-2008



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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 simulator solution, Lot Number 01041 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1851 grams per 100ml.


Dated: 12/7/01  
Seattle, WA



Melissa L. Pemberton  
Forensic Toxicologist

MP/nf  
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.

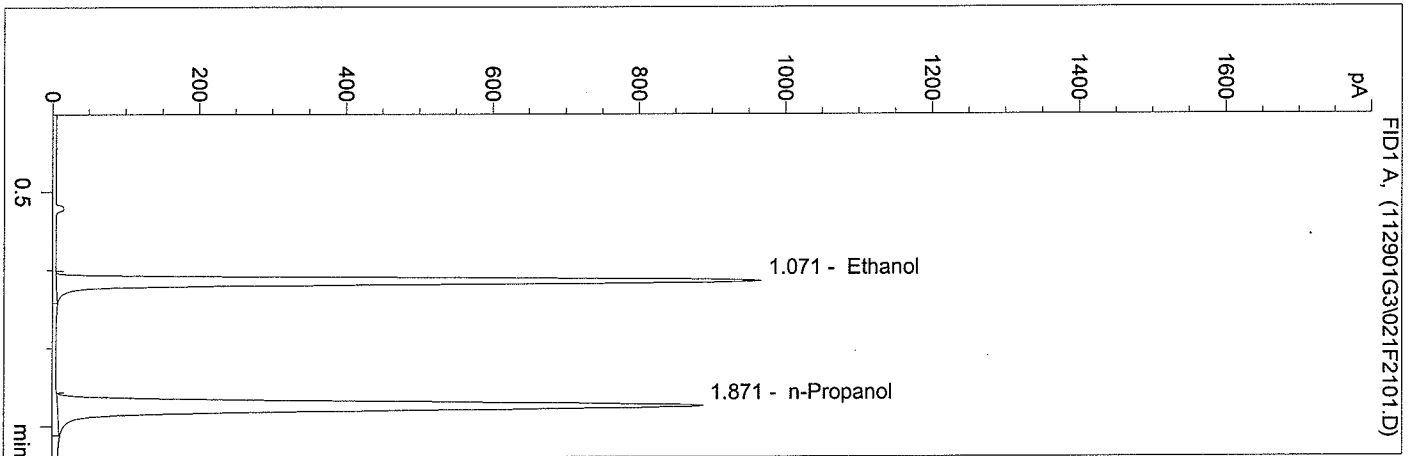
  
1-15-08



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 Instrument 2

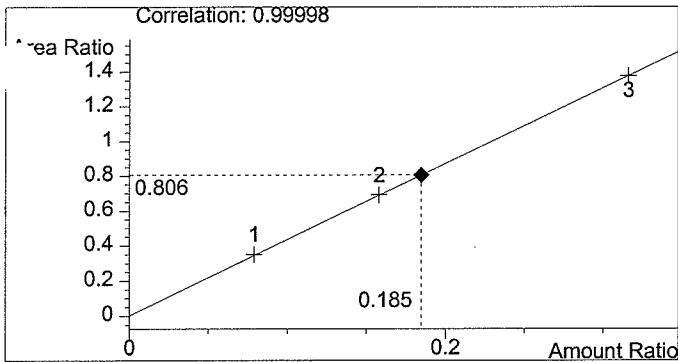
QA01041 0.15SOL  
 GENE SCHWILKE

vial # 21

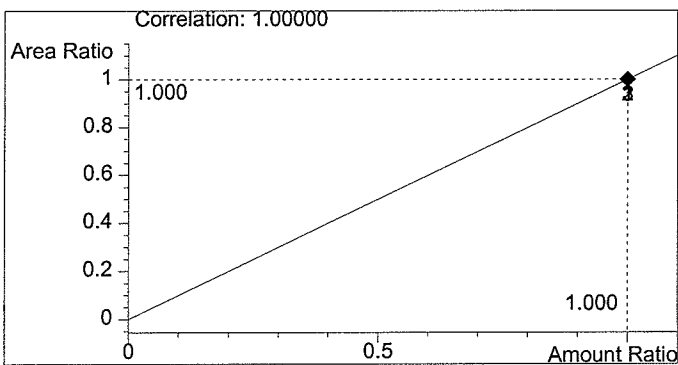


#	Compound	Area	RT
1	Ethanol	2803	1.071
2	n-Propanol	3476	1.871

Totals:



Ethanol 0.185 g/100ml



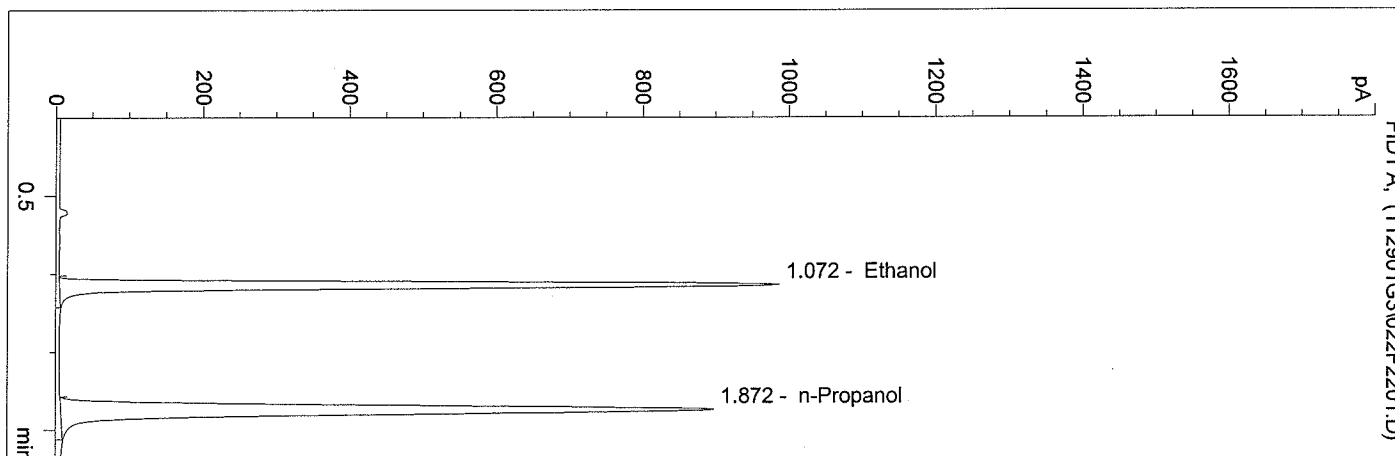
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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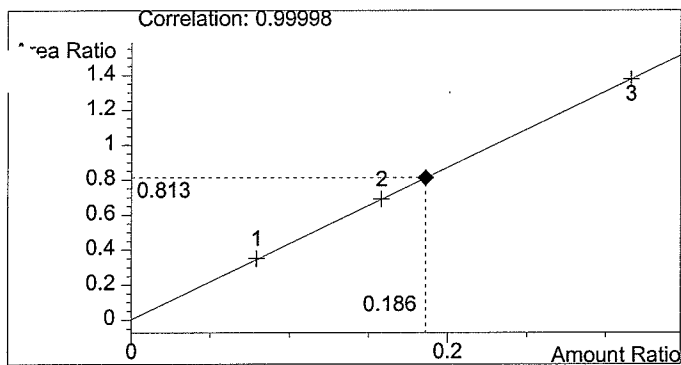
QA01041 0.15SOL  
 GENE SCHWILKE

vial # 22

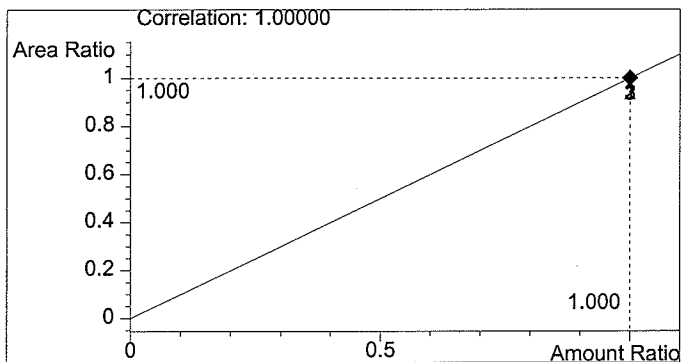


#	Compound	Area	RT
1	Ethanol	2858	1.072
2	n-Propanol	3517	1.872

Totals:



Ethanol 0.186 g/100ml

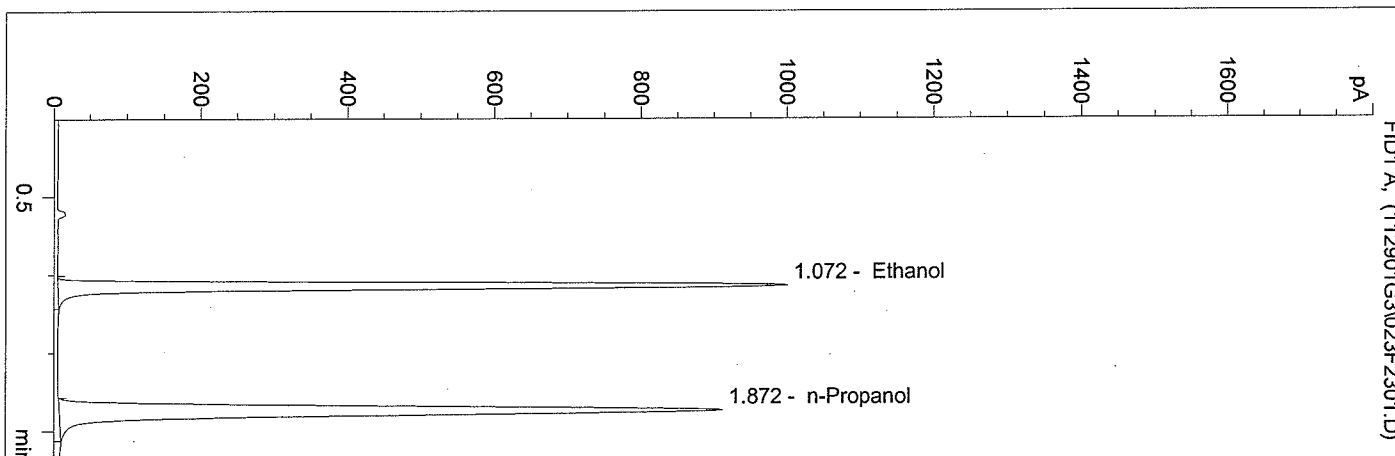


n-Propanol 1.000 g/100ml

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 Instrument 2

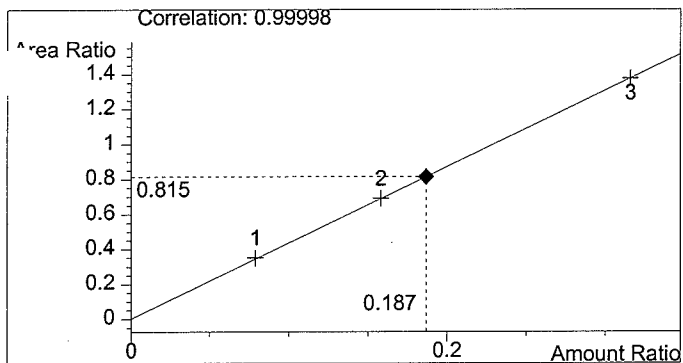
QA01041 0.15SOL  
 GENE SCHWILKE

vial # 23

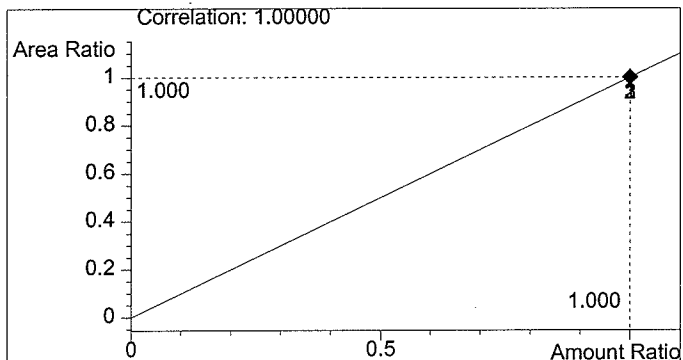


#	Compound	Area	RT
1	Ethanol	2910	1.072
2	n-Propanol	3571	1.872

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

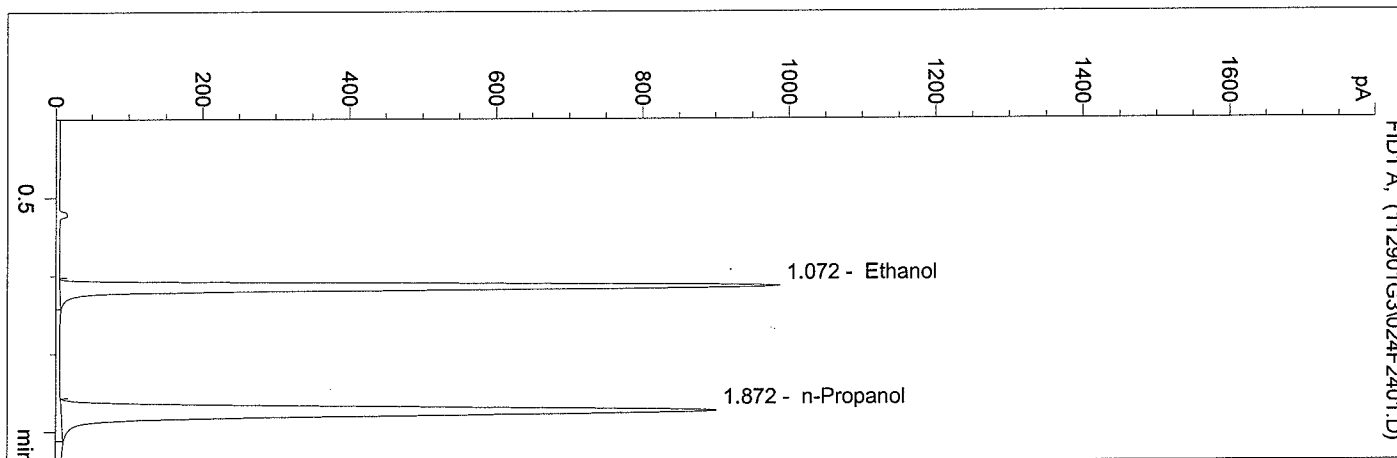


WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2

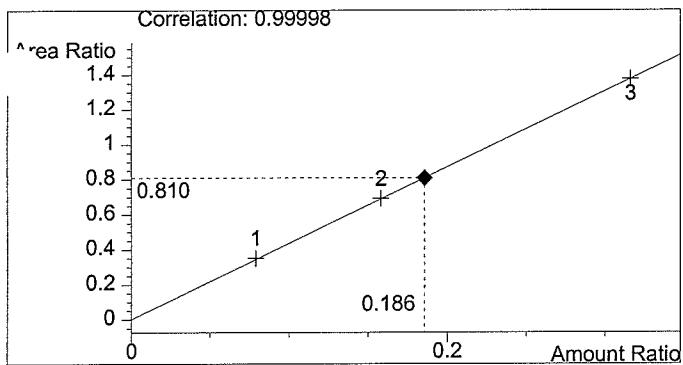
QA01041 0.15SOL  
 GENE SCHWILKE

vial # 24

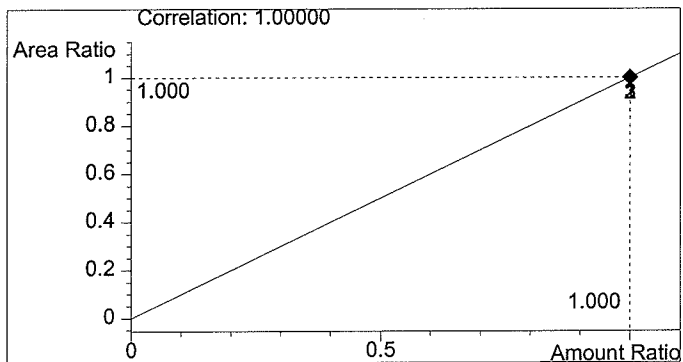


#	Compound	Area	RT
1	Ethanol	2859	1.072
2	n-Propanol	3528	1.872

Totals:



Ethanol 0.186 g/100ml



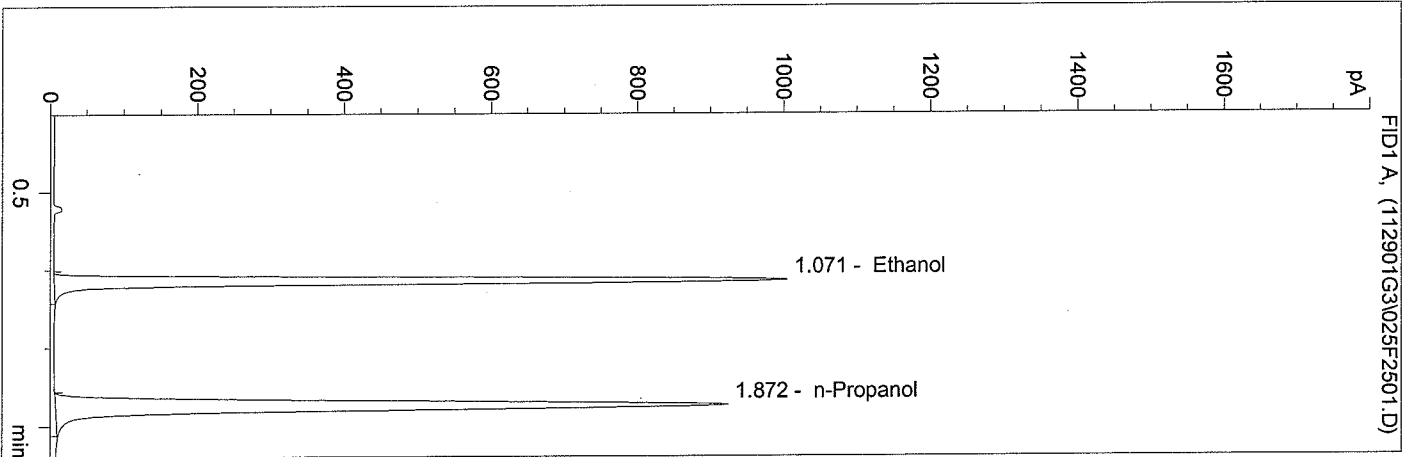
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/29/01 9:51:52 AM  
 Instrument 2

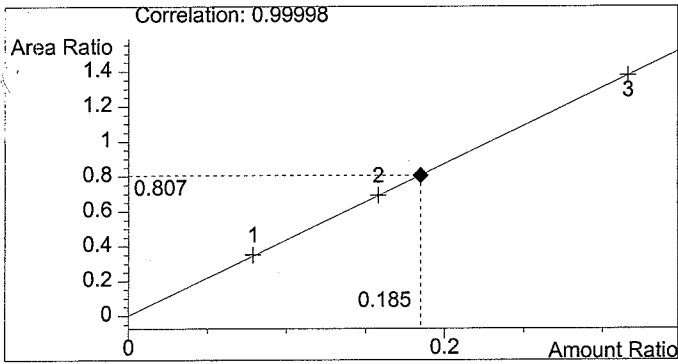
QA01041 0.15SOL  
 GENE SCHWILKE

vial # 25

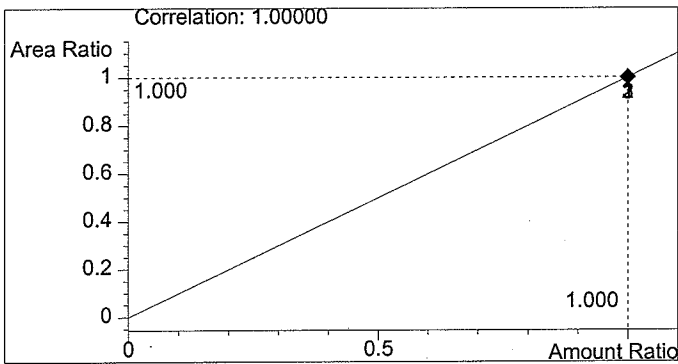


#	Compound	Area	RT
1	Ethanol	2916	1.071
2	n-Propanol	3614	1.872

Totals:



Ethanol 0.185 g/100ml

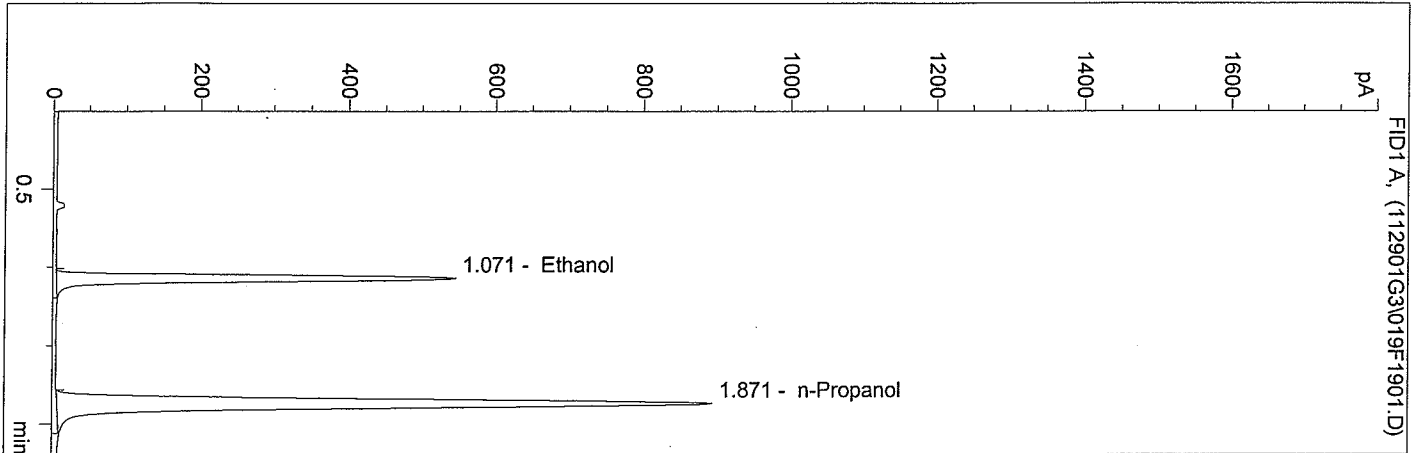


n-Propanol 1.000 g/100ml

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 Instrument 2

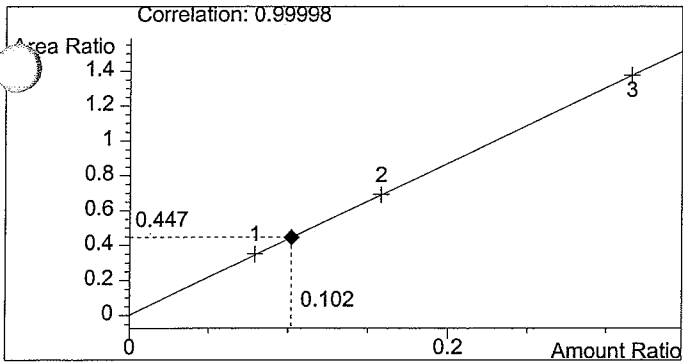
CAP 0.101  
 GENE SCHWILKE

vial # 19

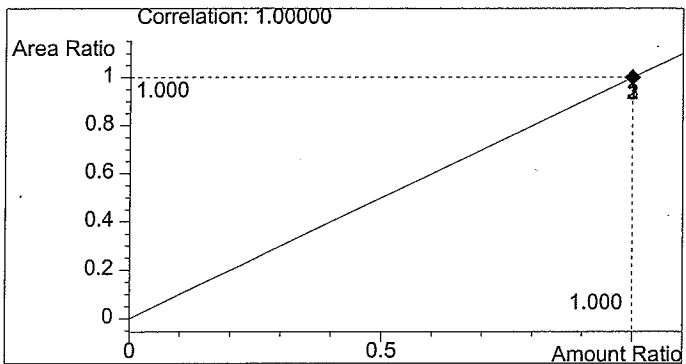


#	Compound	Area	RT
1	Ethanol	1560	1.071
2	n-Propanol	3488	1.871

Totals:



Ethanol 0.102 g/100ml



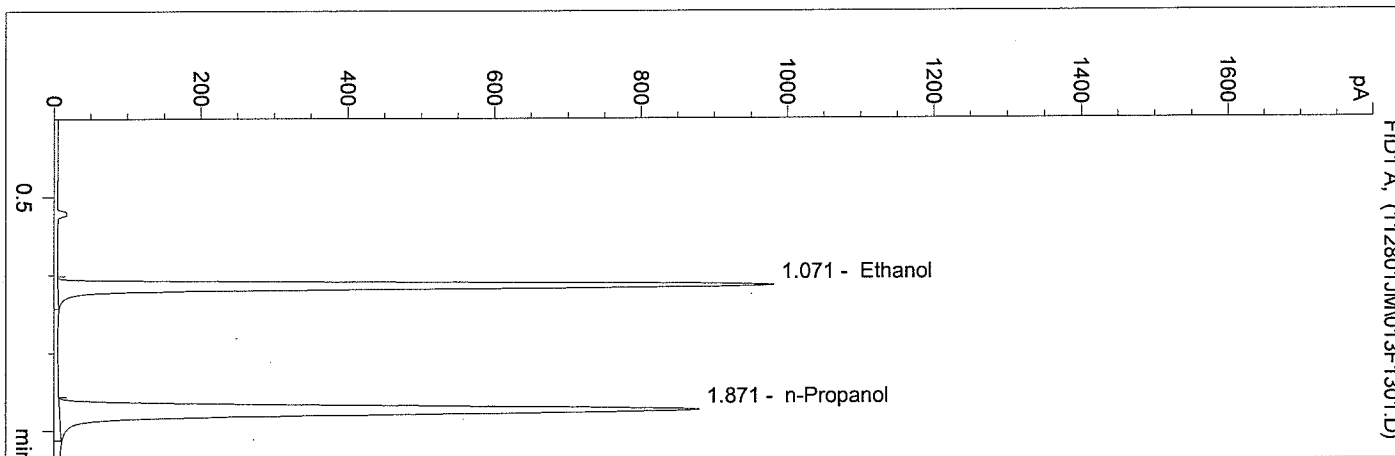
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/28/01 5:51:46 PM  
 Instrument 2

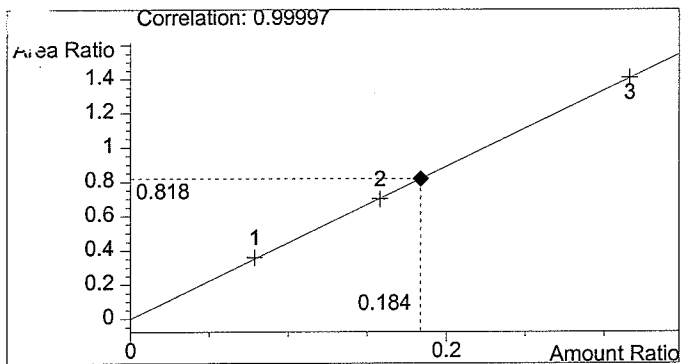
Q.A. 01041  
 Estuardo J. Miranda

vial # 13



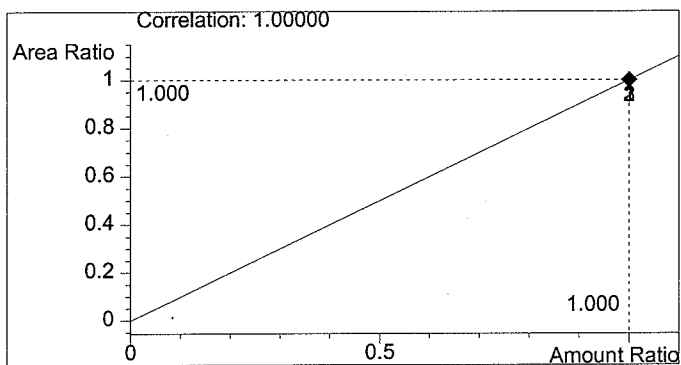
#	Compound	Area	RT
1	Ethanol	2808	1.071
2	n-Propanol	3430	1.871

Totals:



Ethanol 0.184 g/100ml

*EW*  
 1-15-2002



n-Propanol 1.000 g/100ml

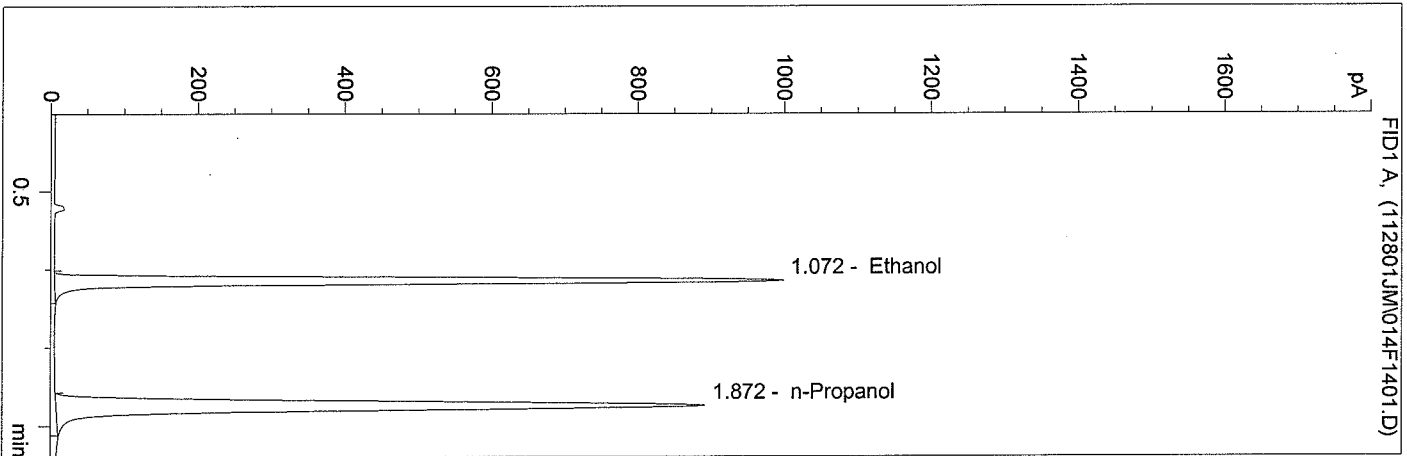
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11/28/01 5:54:48 PM

Instrument 2

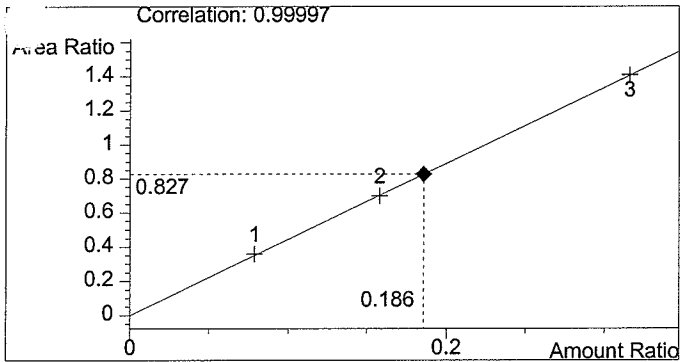
Q.A. 01041  
Estuardo J. Miranda

vial # 14



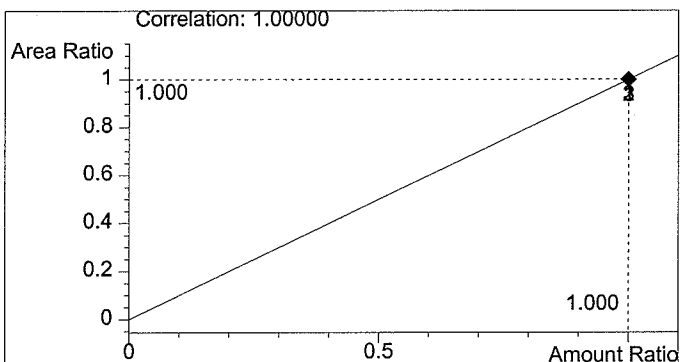
#	Compound	Area	RT
1	Ethanol	2883	1.072
2	n-Propanol	3485	1.872

Totals:



Ethanol 0.186 g/100ml

*EW*  
1-15-2008



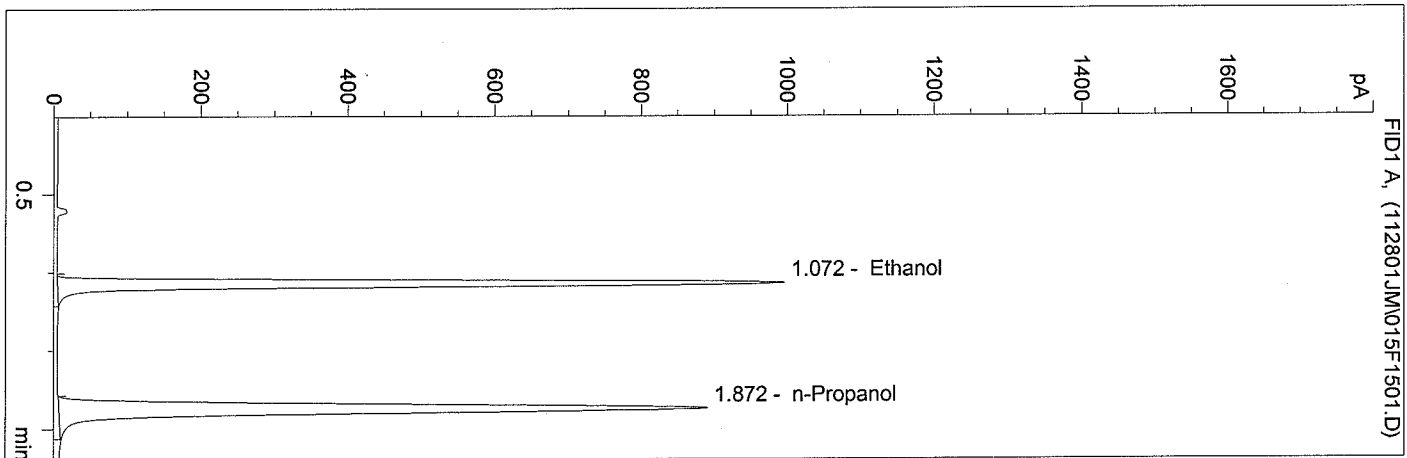
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 11/28/01 5:57:49 PM  
 Instrument 2

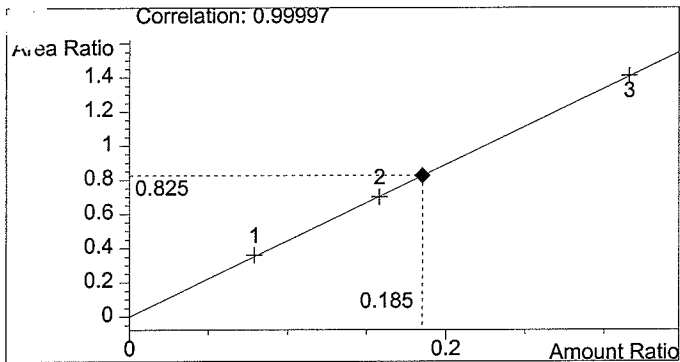
Q.A. 01041  
 Estuardo J. Miranda

vial # 15



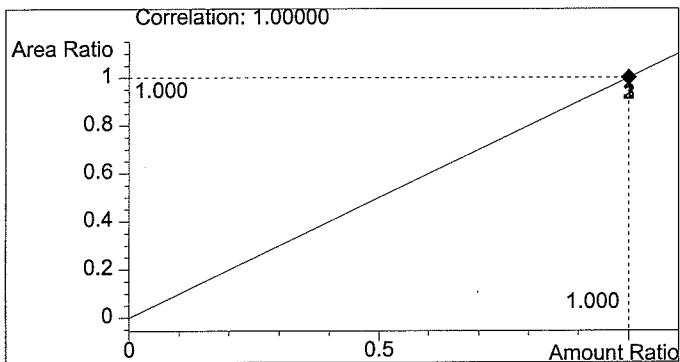
#	Compound	Area	RT
1	Ethanol	2871	1.072
2	n-Propanol	3478	1.872

Totals:



Ethanol 0.185 g/100ml

*EW*  
 1-15-2008

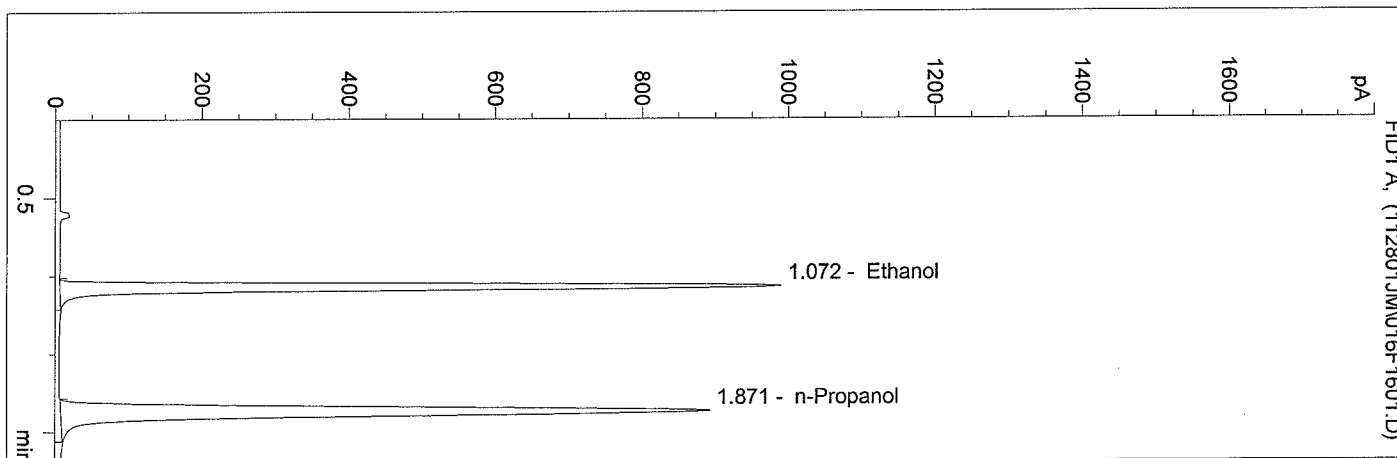


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
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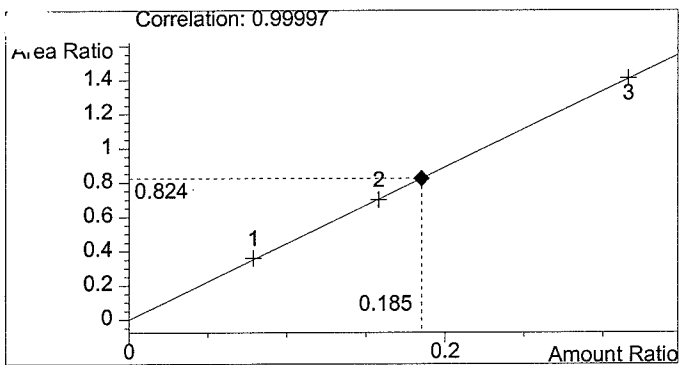
Q.A. 01041  
 Estuardo J. Miranda

vial # 16



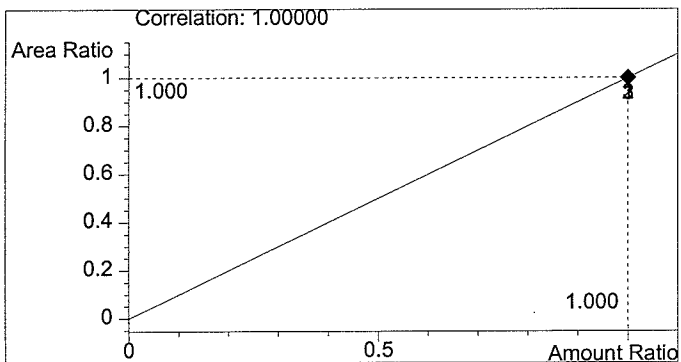
#	Compound	Area	RT
1	Ethanol	2887	1.072
2	n-Propanol	3502	1.871

Totals:



Ethanol 0.185 g/100ml

*EM*  
 1-15-2008



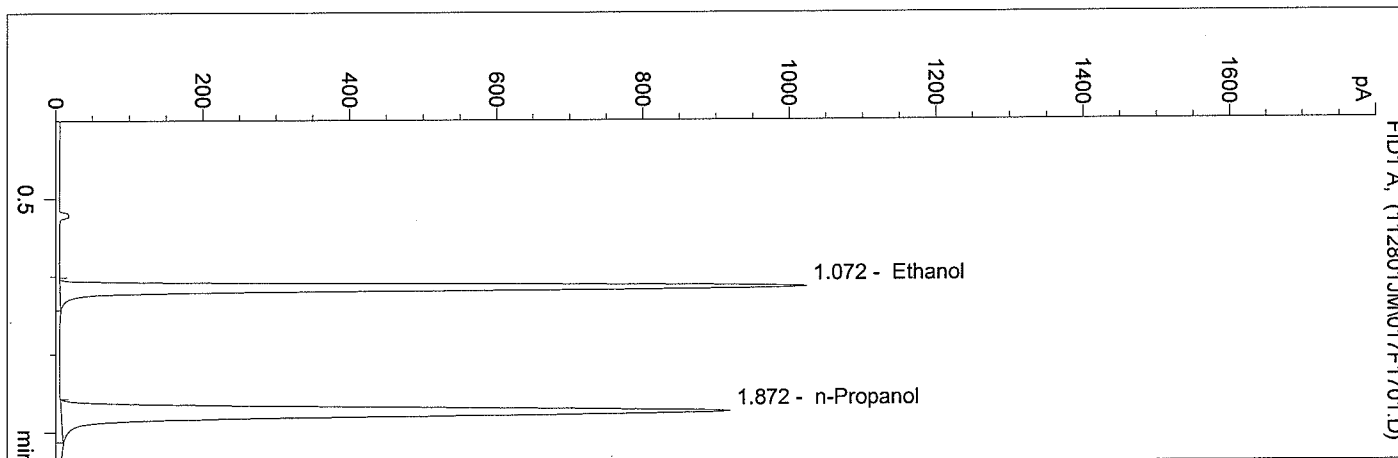
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2

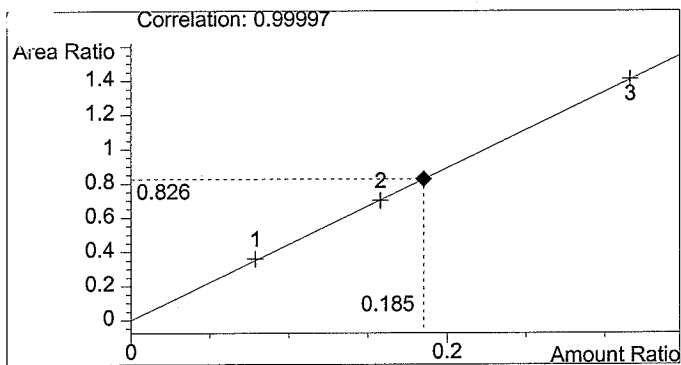
Q.A. 01041  
 Estuardo J. Miranda

vial # 17



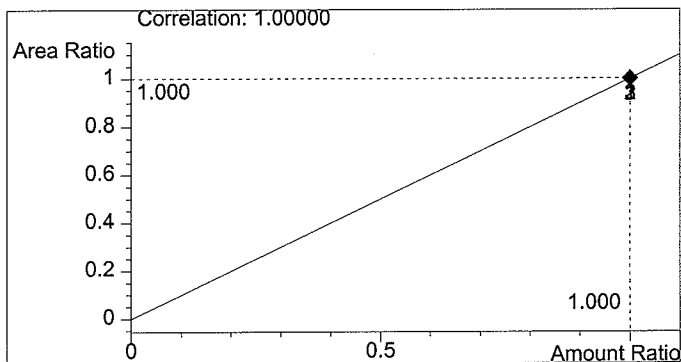
#	Compound	Area	RT
1	Ethanol	2963	1.072
2	n-Propanol	3589	1.872

Totals:



Ethanol 0.185 g/100ml

*EM  
 11/28/01  
 1-15-2005*



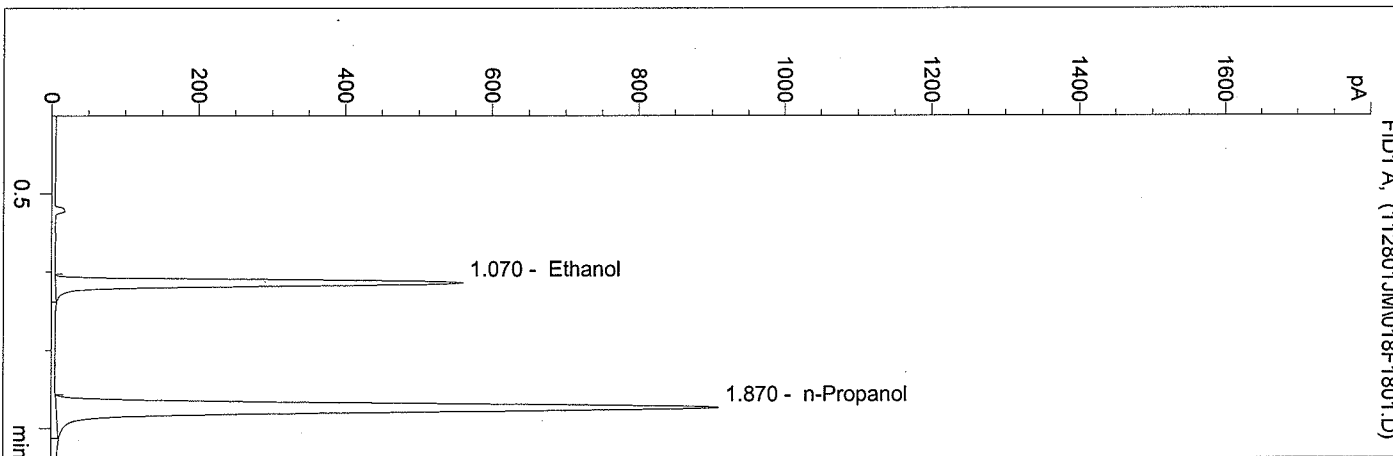
n-Propanol 1.000 g/100ml



C:\HPCHEM\2\METHODS\BLDALCO2.M  
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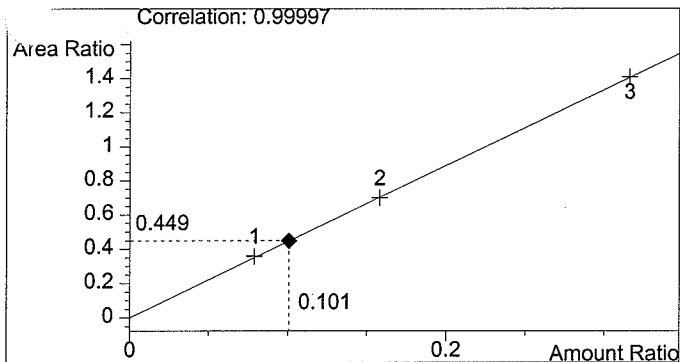
0.101 CAP Cntrl.  
 Estuardo J. Miranda

vial # 18



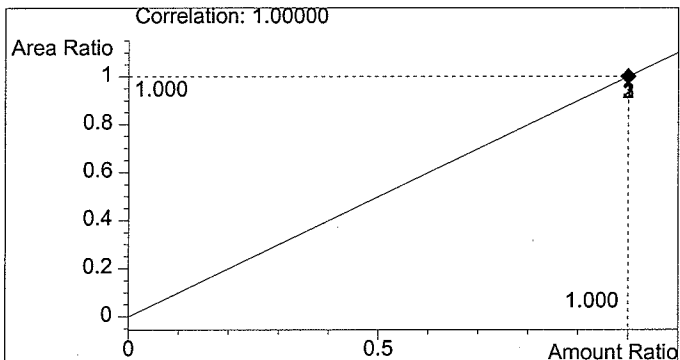
#	Compound	Area	RT
1	Ethanol	1586	1.070
2	n-Propanol	3532	1.870

Totals:



Ethanol 0.101 g/100ml

*EM*  
*1-15-2008*



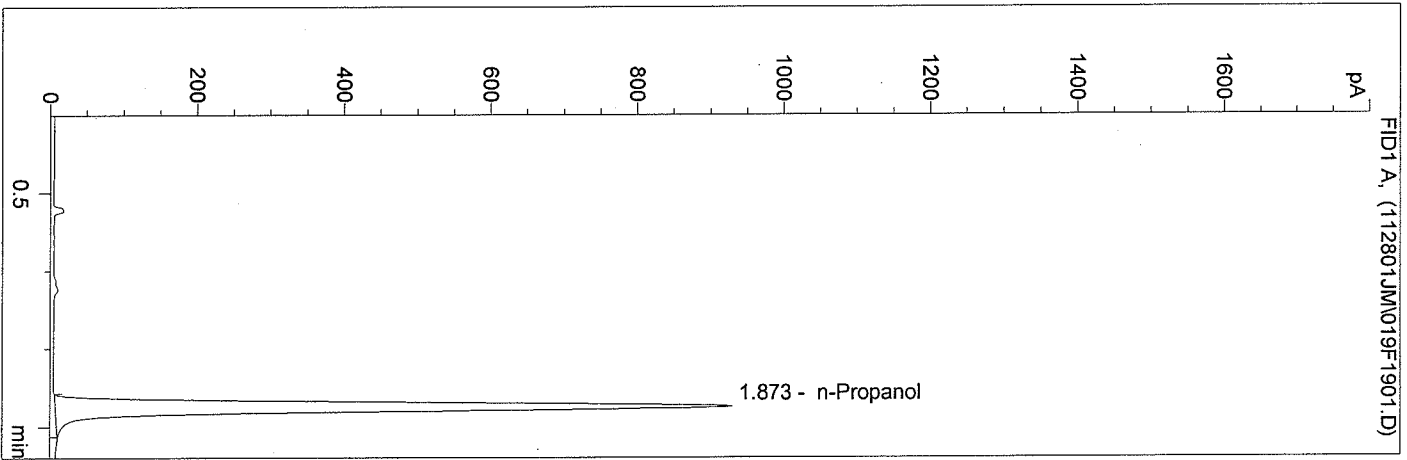
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2

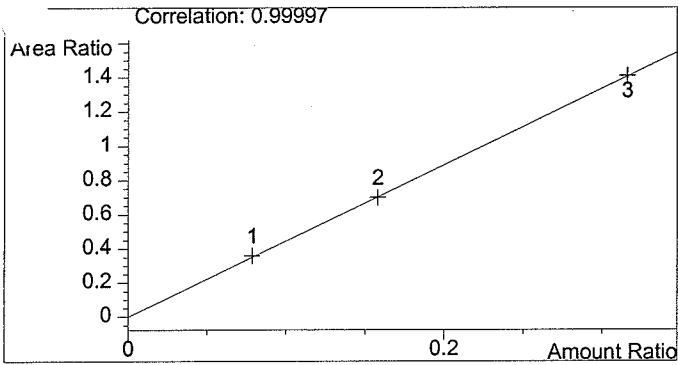
Blank  
 Estuardo J. Miranda

vial # 19



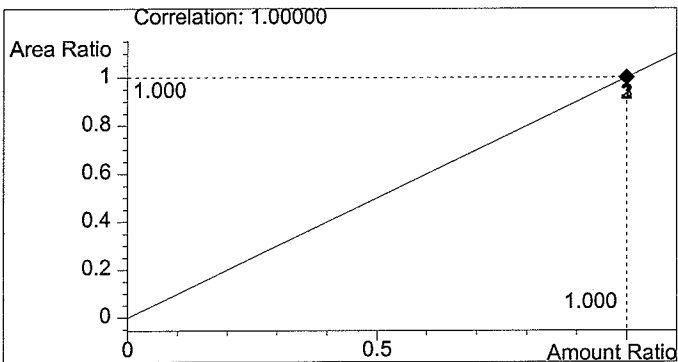
#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3645	1.873

Totals:



Ethanol 0.000 g/100ml

*EM*  
 1-15-2008

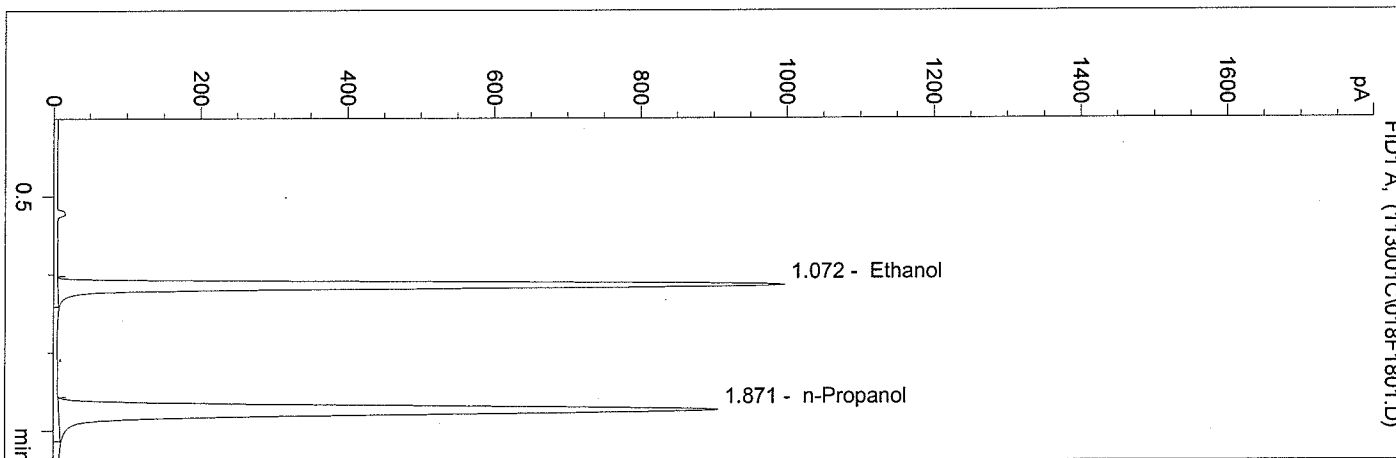


n-Propanol 1.000 g/100ml

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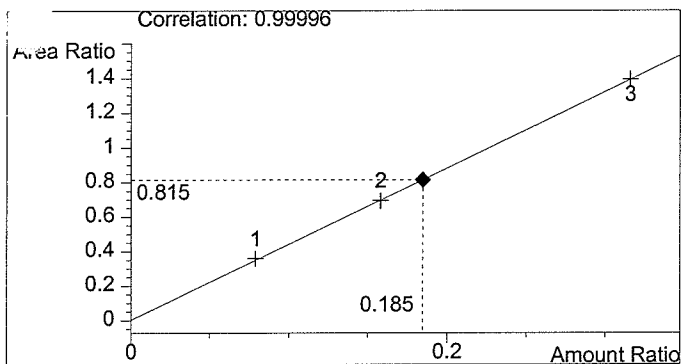
01041QA  
 M PEMBERTON

vial # 18

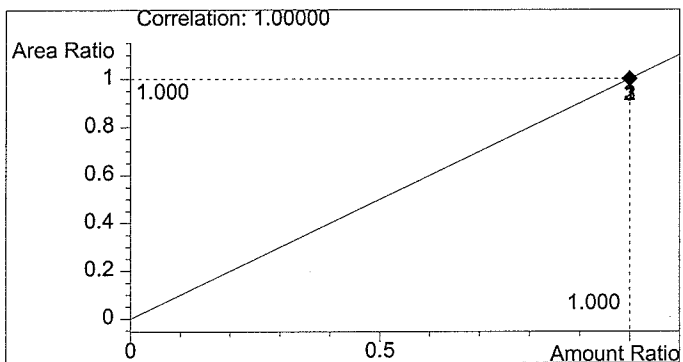


#	Compound	Area	RT
1	Ethanol	2907	1.072
2	n-Propanol	3566	1.871

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

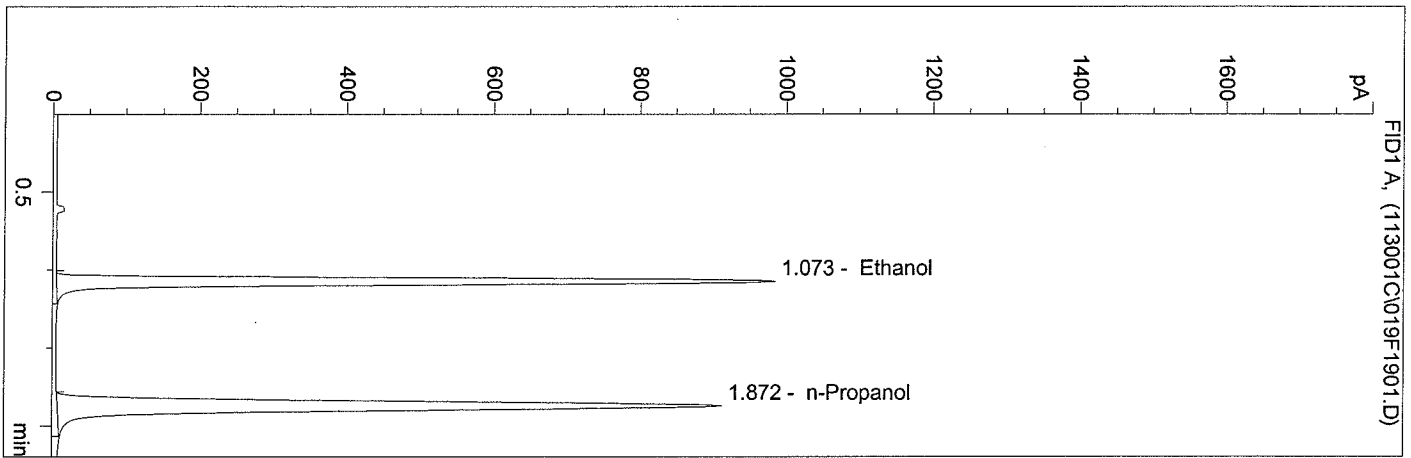
*Handwritten signature and date:*  
 1-15-06

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2

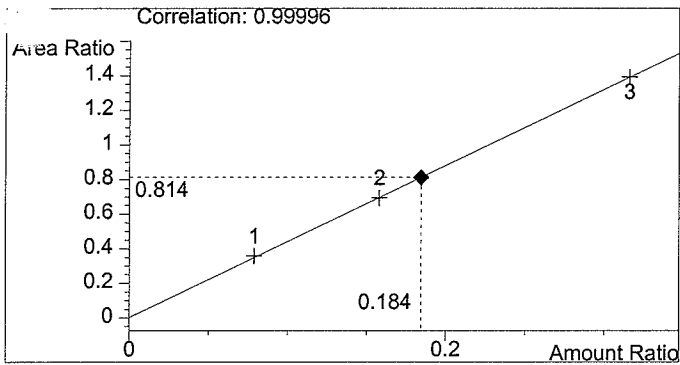
01041QA  
 M PEMBERTON

vial # 19

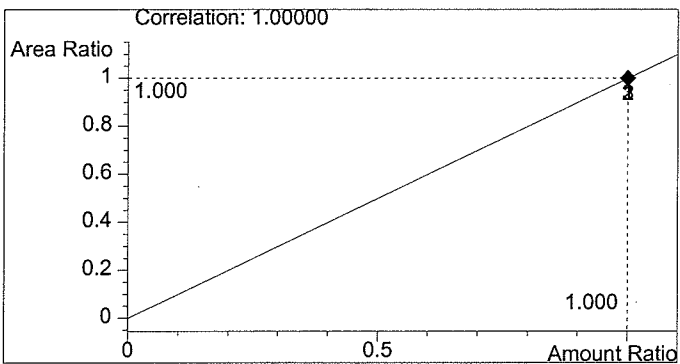


#	Compound	Area	RT
1	Ethanol	2951	1.073
2	n-Propanol	3627	1.872

Totals:



Ethanol 0.184 g/100ml



n-Propanol 1.000 g/100ml

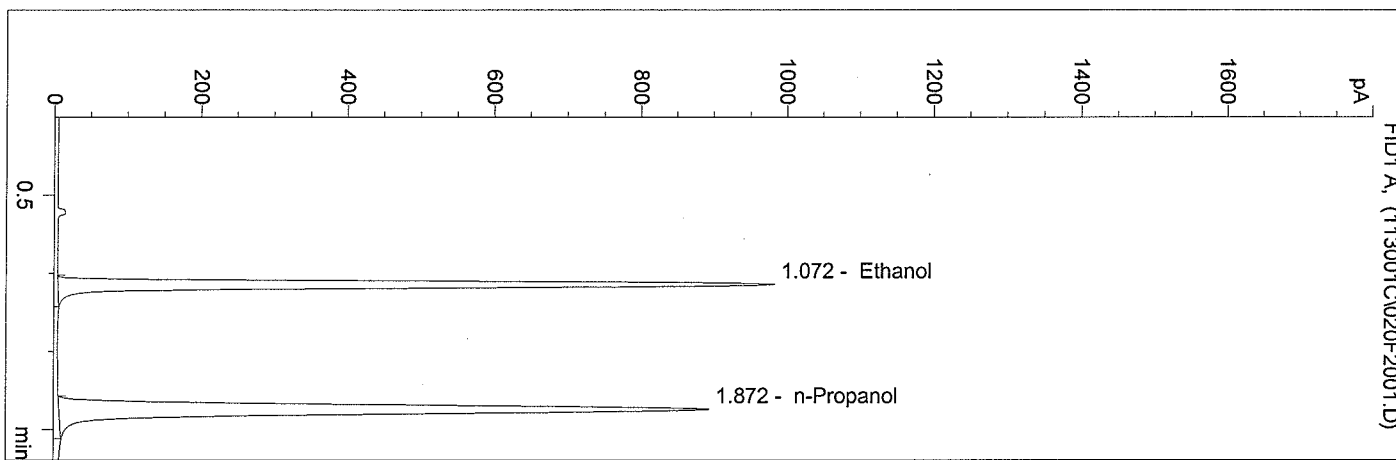
*Handwritten:* 1-15-05

WASHINGTON STATE TOXICOLOGY LABORATORY

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

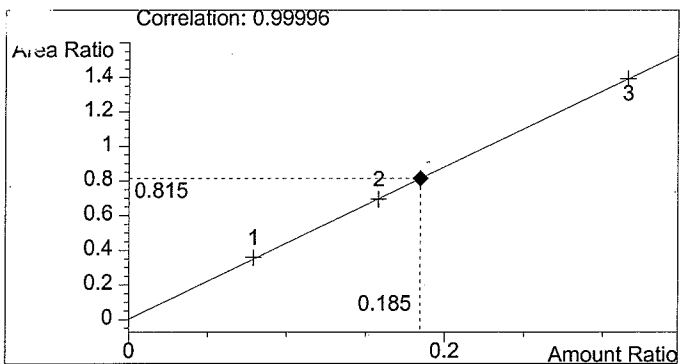
01041QA  
 M PEMBERTON

vial # 20

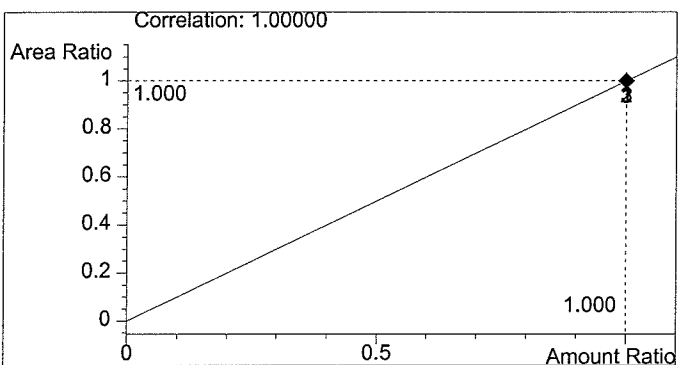


#	Compound	Area	RT
1	Ethanol	2866	1.072
2	n-Propanol	3515	1.872

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

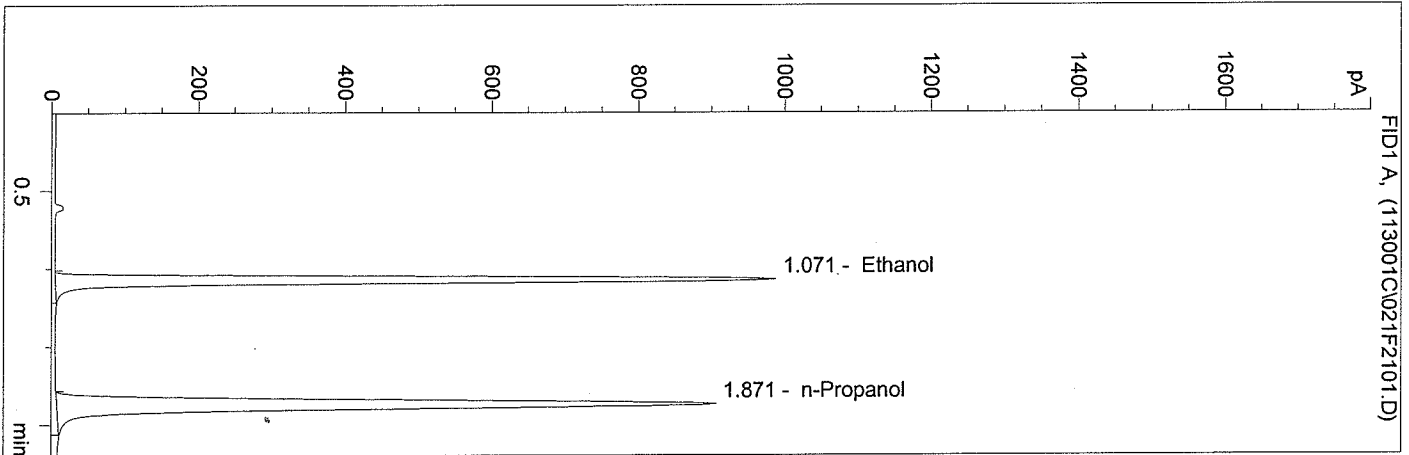
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 1-15-25

WASHINGTON STATE TOXICOLOGY LABORATORY

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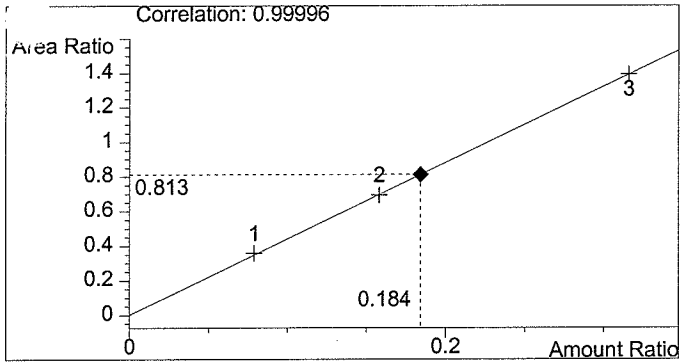
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 M PEMBERTON

vial # 21

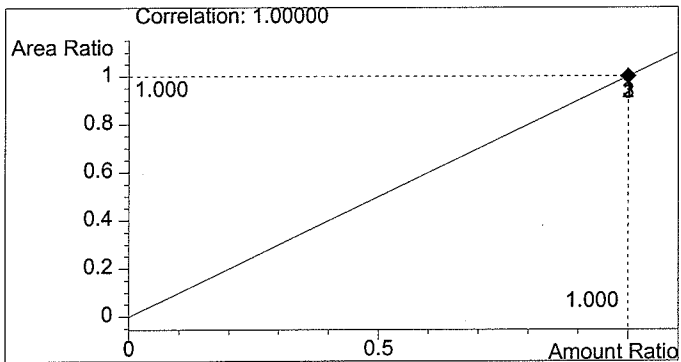


#	Compound	Area	RT
1	Ethanol	2893	1.071
2	n-Propanol	3559	1.871

Totals:



Ethanol 0.184 g/100ml



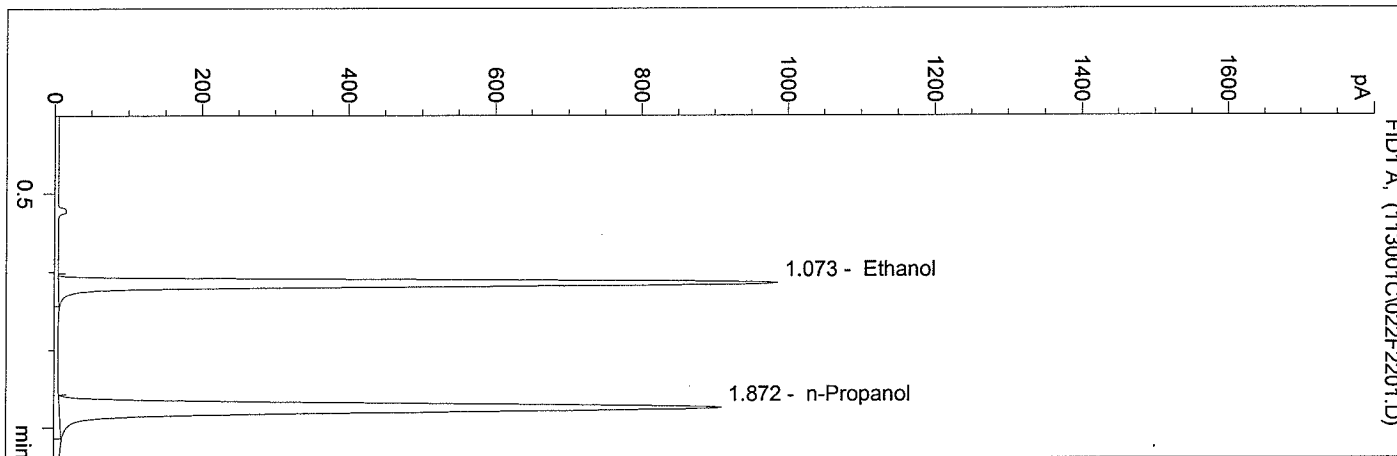
n-Propanol 1.000 g/100ml

*Handwritten:*  
 11-15-01

C:\HPCHEM\2\METHODS\BLDALCO2.M  
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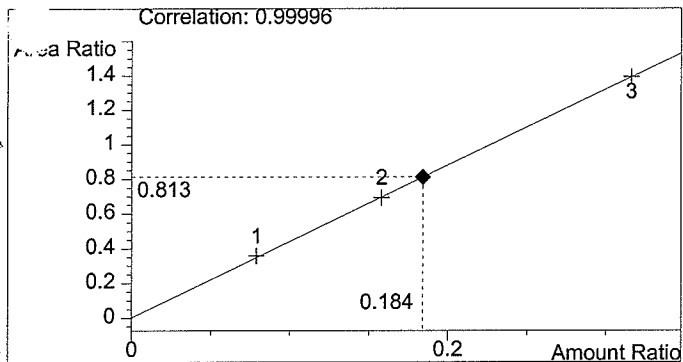
01041QA  
 M PEMBERTON

vial # 22

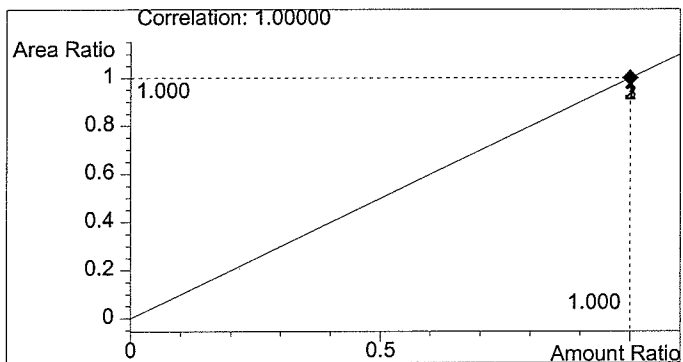


#	Compound	Area	RT
1	Ethanol	2929	1.073
2	n-Propanol	3603	1.872

Totals:



Ethanol 0.184 g/100ml



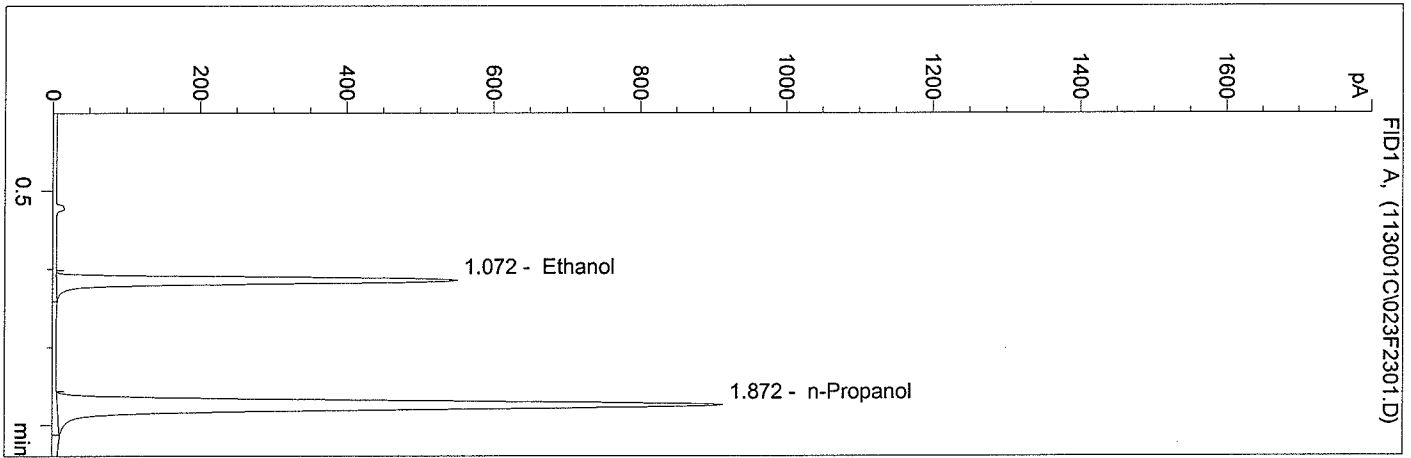
n-Propanol 1.000 g/100ml

*Handwritten signature and date:*  
 1-15-08

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

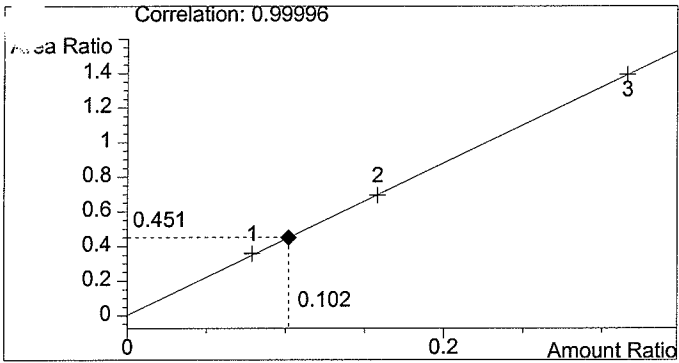
0.101 CAP  
 M PEMBERTON

vial # 23

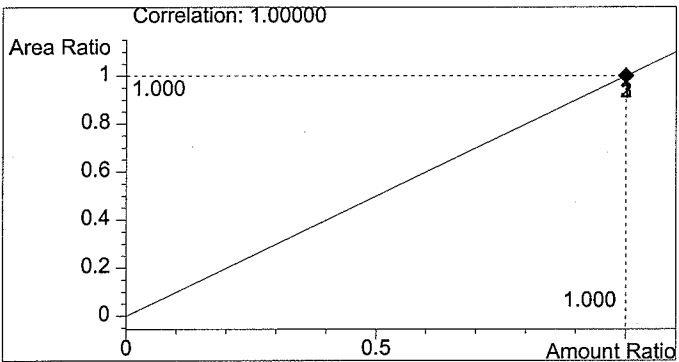


#	Compound	Area	RT
1	Ethanol	1630	1.072
2	n-Propanol	3611	1.872

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

*Handwritten signature and date: 12-15-01*