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 **03004** Date: 1/8/2003

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	Anal10	Anal 11	Anal 12
1	0.187	0.189	0.187									
2	0.188	0.189	0.187									
3	0.188	0.190	0.186									
4	0.188	0.190	0.186									
5	0.188	0.189	0.186									
Ctrl	0.102	0.103	0.101									

External Control:

Lot #: A021986 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1879 g/100 mL

SD: 0.00136

Range (3xSD): 0.1838 to 0.1919

Precision CV (%): 0.7217 %

Equivalent vapor concent.: 0.1527 g/210L

Analyst	Name	Signature	Date
1	Eugene Schwilke	Gene Schwilke	01/10/03
2	Jayne Thatcher	Jayne E. Thatcher	01/08/03
3	Estuardo J. Miranda	E. Miranda	01/11/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Eugene Schwilke Gene Schwilke according to the approved protocol

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New Phone: 206/262-6100 New Fax: 206/262-6145

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, Board Certification from the American Board of Forensic Toxicology, and five years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 03004 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1879 grams per 100ml.

Dated: 1/13/03
Seattle, WA

Eugene W. Schwilke, A.B.F.T.
Forensic Toxicologist

GS/nf
GSQA

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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 simulator solution, Lot Number 03004, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1879 grams per 100ml.

Dated: 1/13/03
Seattle, WA

Jayne E. Thatcher
Forensic Toxicologist

JET/nf
JTQA

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New Phone: 206/262-6100 New Fax: 206/262-6145

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 four years experience in Forensic Toxicology.

The quality assurance solution, Lot Number 03004 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.1879 grams per 100mL.

Dated: 1/13/03
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

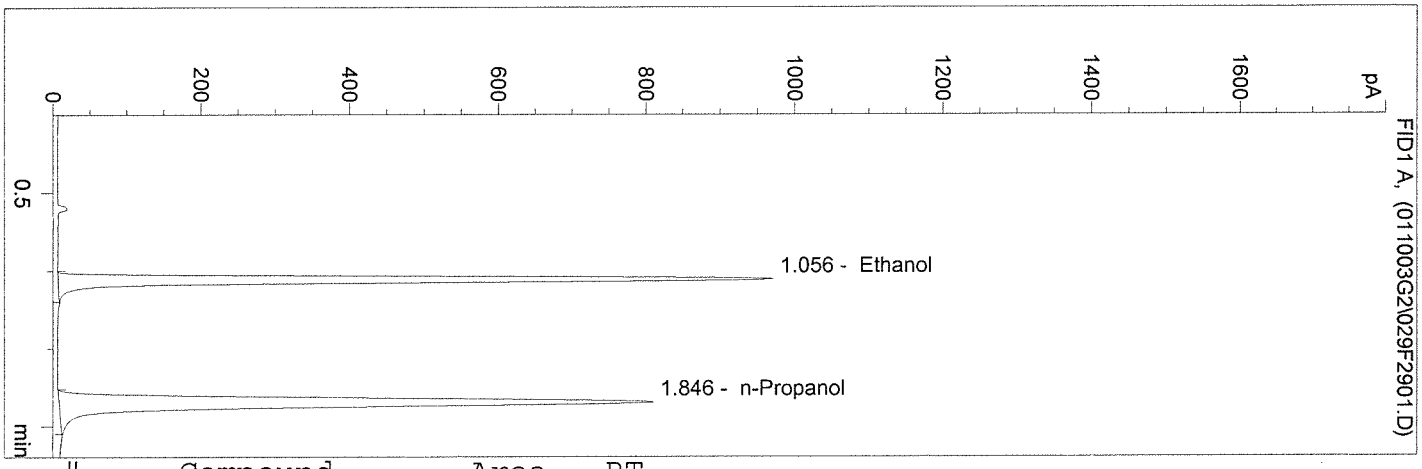
EM/nf
EMQA

WASHINGTON STATE TOXICOLOGY LABORATORY

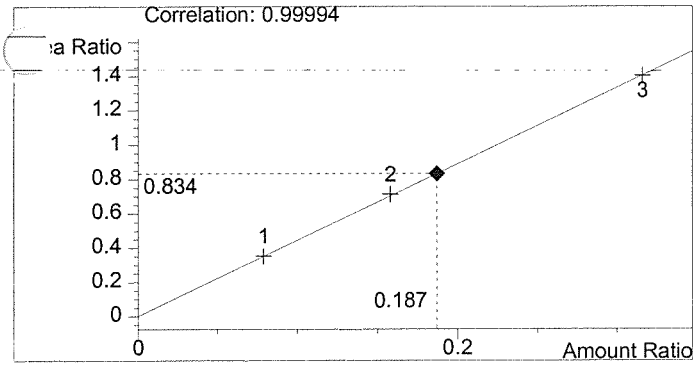
C:\HPCHEM\2\METHODS\BLDALCO2.M
1/10/03 3:37:41 PM
Instrument 2
-ALC1

0.15QASOL 03004
GENE SCHWILKE

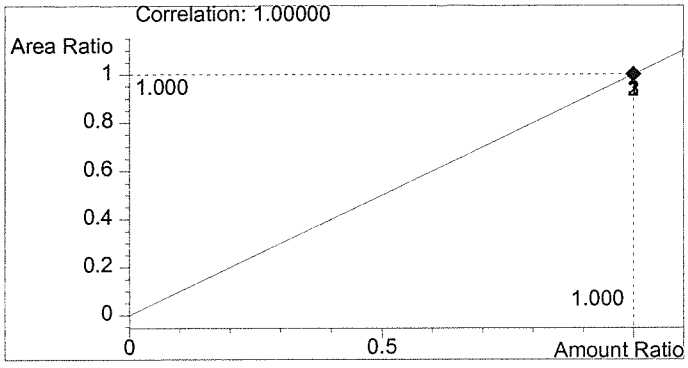
vial # 29



#	Compound	Area	RT
1	Ethanol	2615	1.056
2	n-Propanol	3136	1.846
Totals:			



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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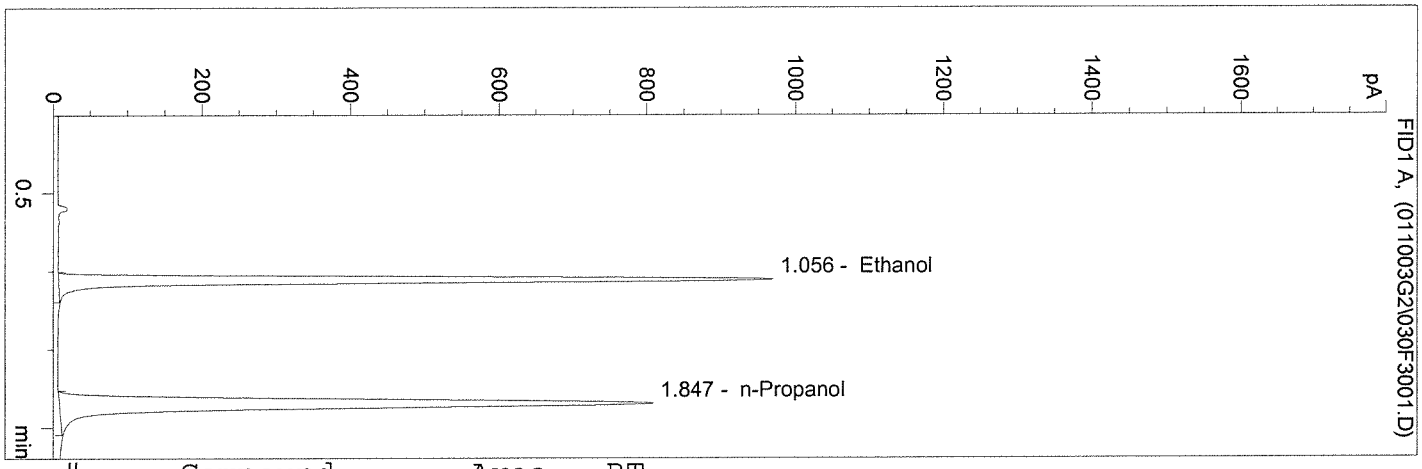
1/10/03 3:40:43 PM
Instrument 2
-ALC1

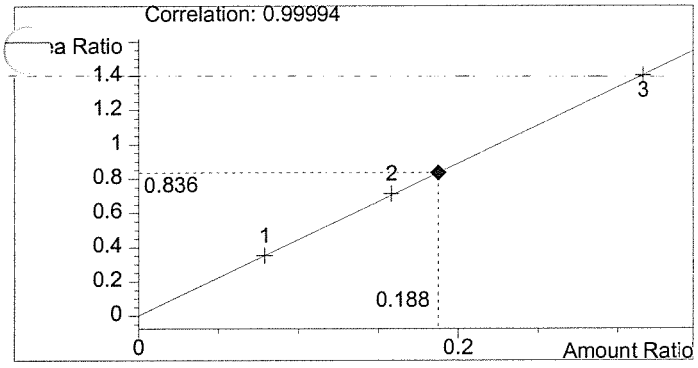
0.15QASOL 03004
GENE SCHWILKE

vial # 30

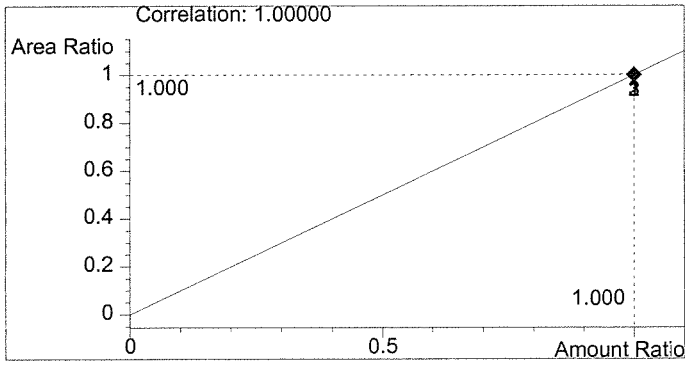


#	Compound	Area	RT
1	Ethanol	2618	1.056
2	n-Propanol	3129	1.847

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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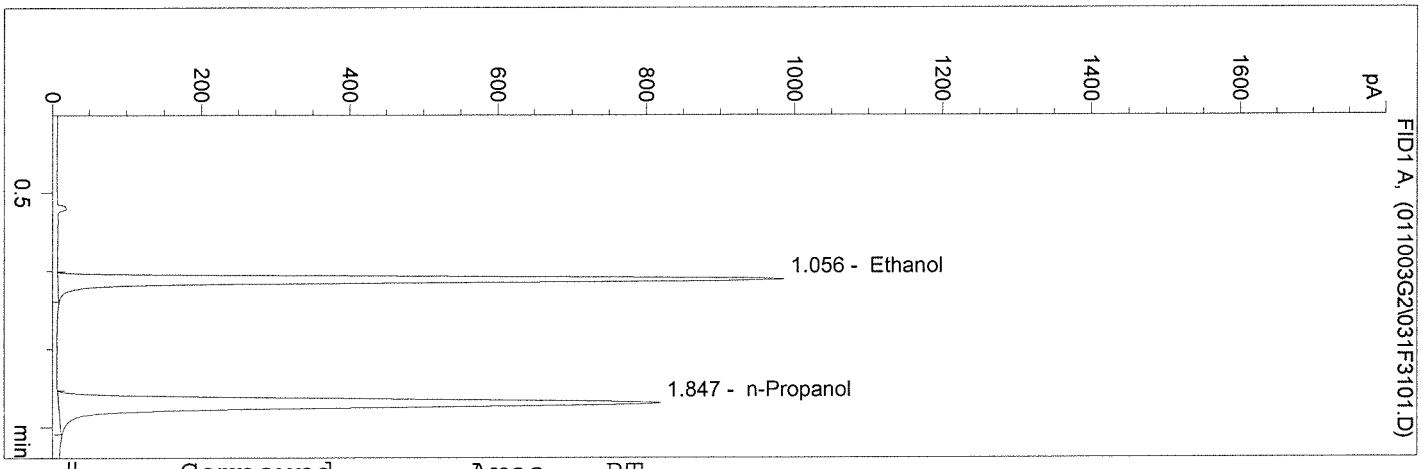
C:\HPCHEM\2\METHODS\BLDALCO2.M
1/10/03 3:43:45 PM
Instrument 2
-ALC1

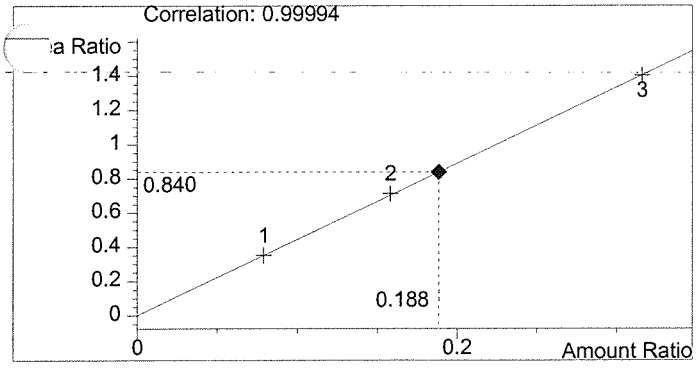
0.15QASOL 03004
GENE SCHWILKE

vial # 31

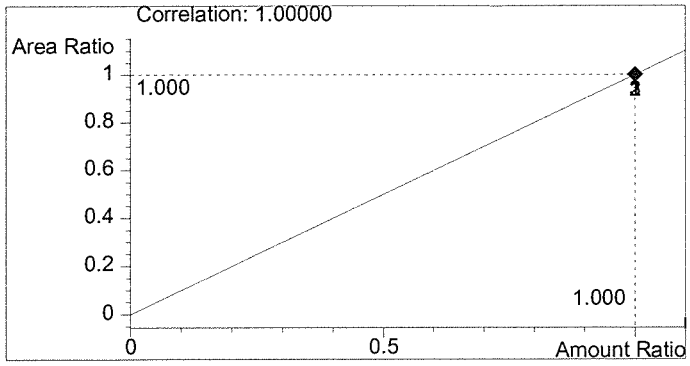


#	Compound	Area	RT
1	Ethanol	2658	1.056
2	n-Propanol	3166	1.847

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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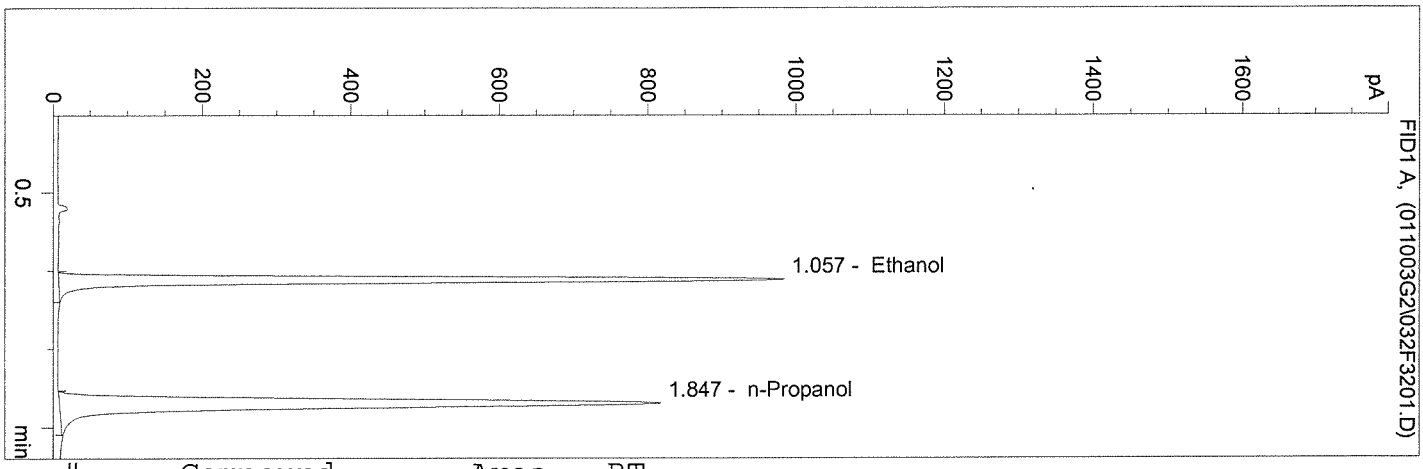
C:\HPCHEM\2\METHODS\BLDALCO2.M
1/10/03 3:46:47 PM
Instrument 2
-ALC1

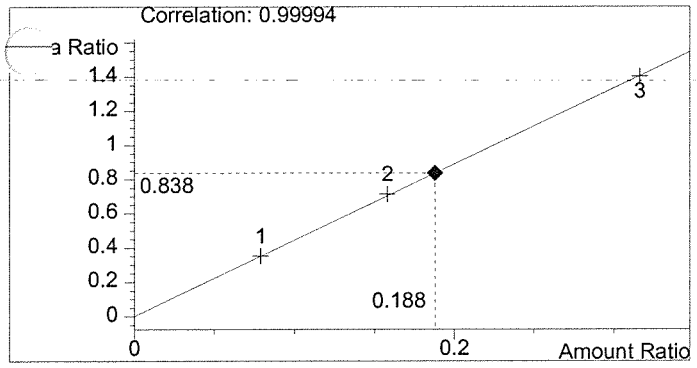
0.15QASOL 03004
GENE SCHWILKE

vial # 32

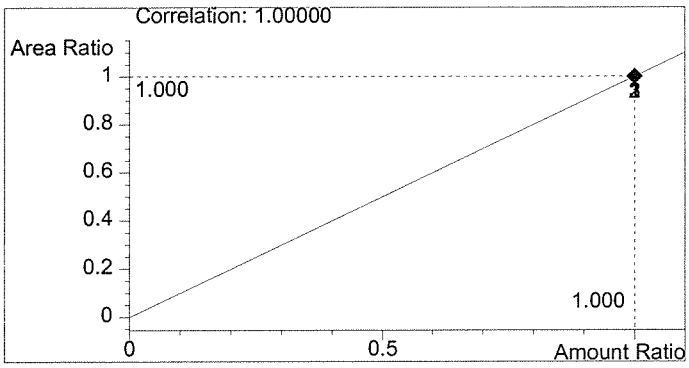


#	Compound	Area	RT
1	Ethanol	2655	1.057
2	n-Propanol	3168	1.847

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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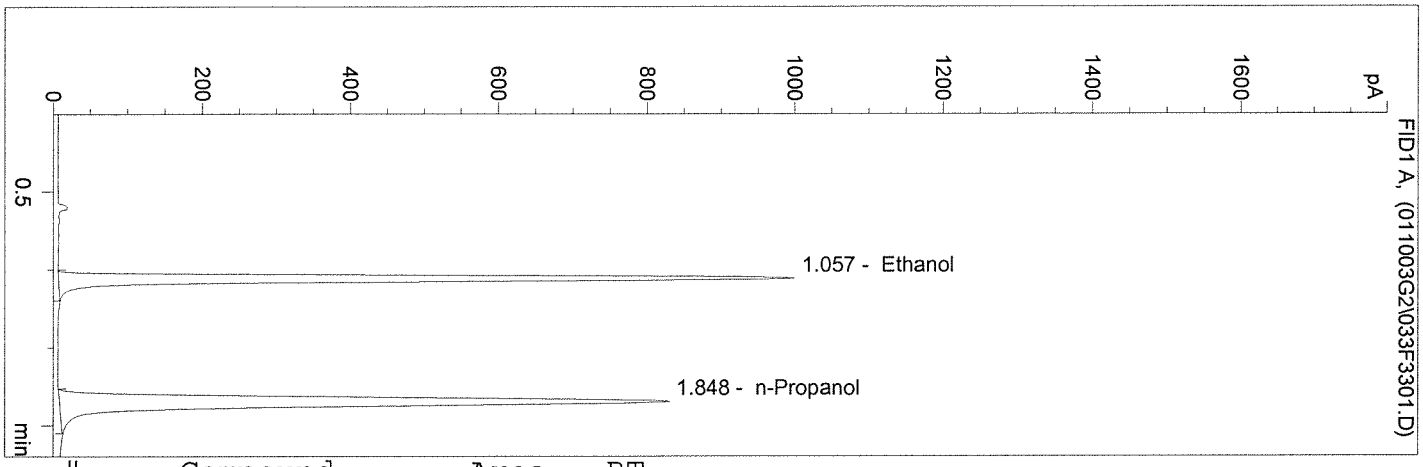
C:\HPCHEM\2\METHODS\BLDALCO2.M
1/10/03 3:49:52 PM
Instrument 2
-ALC1

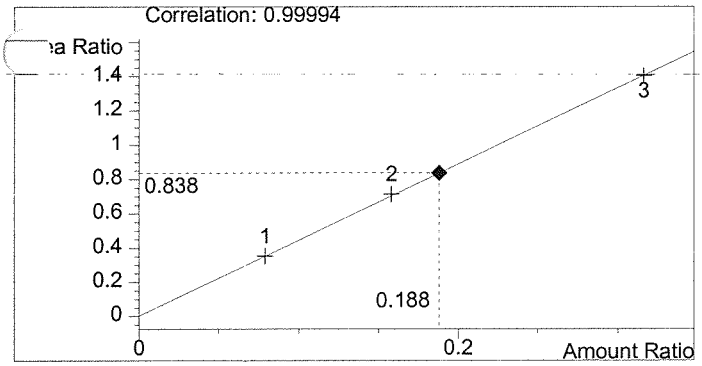
0.15QASOL 03004
GENE SCHWILKE

vial # 33

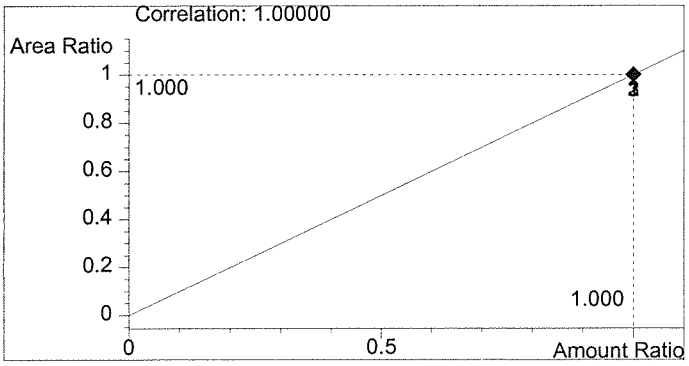


#	Compound	Area	RT
1	Ethanol	2694	1.057
2	n-Propanol	3217	1.848

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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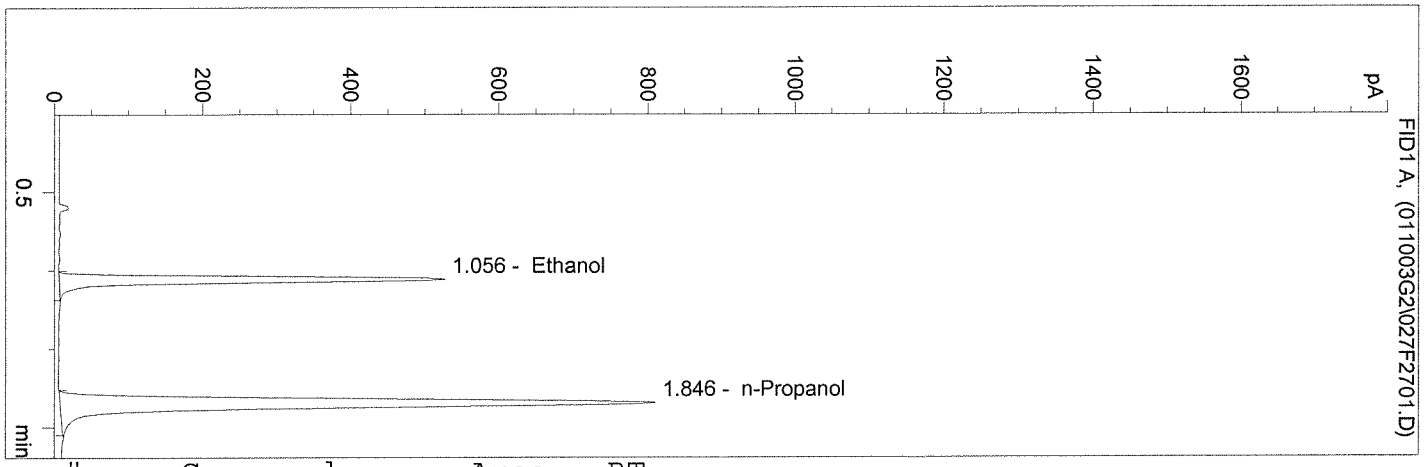
C:\HPCHEM\2\METHODS\BLDALCO2.M
1/10/03 3:31:35 PM
Instrument 2
-ALC1

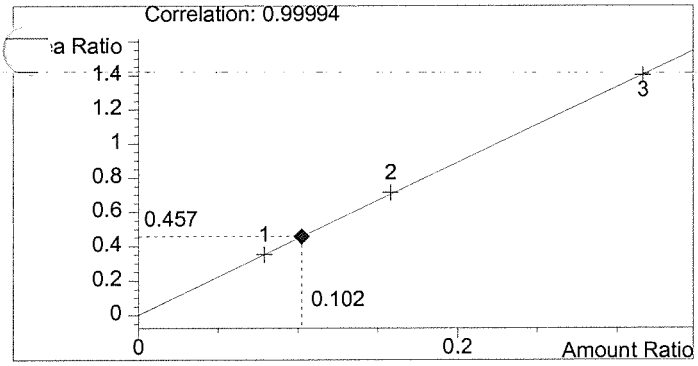
CAP 0.100
GENE SCHWILKE

vial # 27

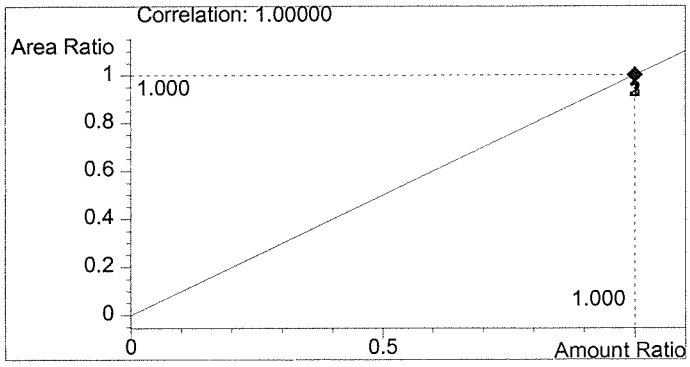


#	Compound	Area	RT
1	Ethanol	1438	1.056
2	n-Propanol	3146	1.846

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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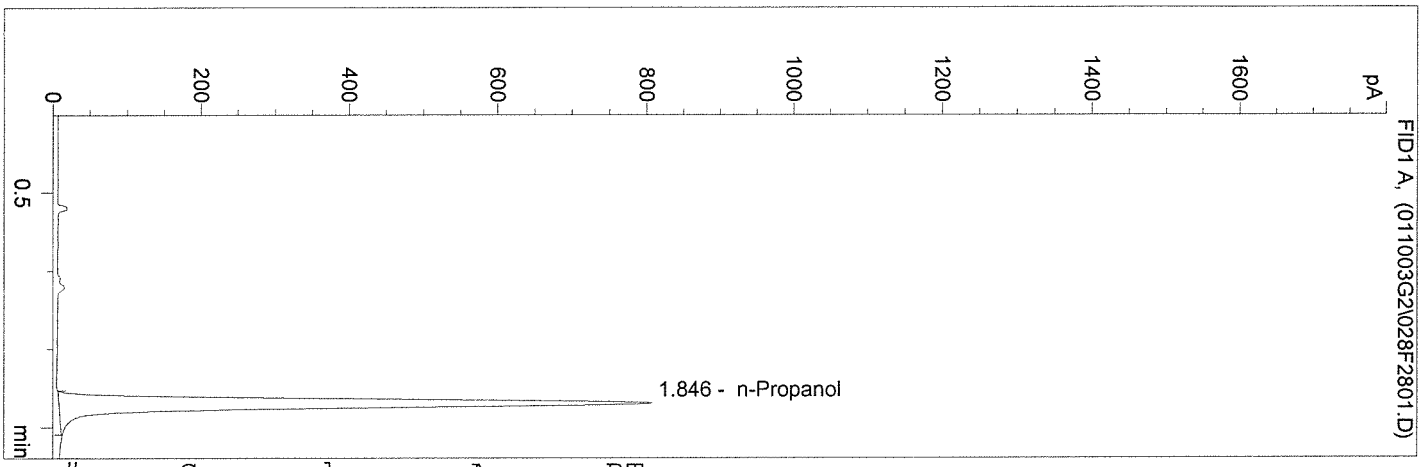
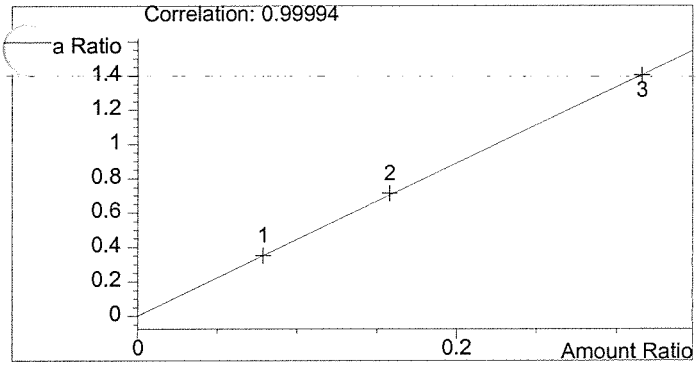
1/10/03 3:34:37 PM
Instrument 2
-ALC1

BLANK
GENE SCHWILKE

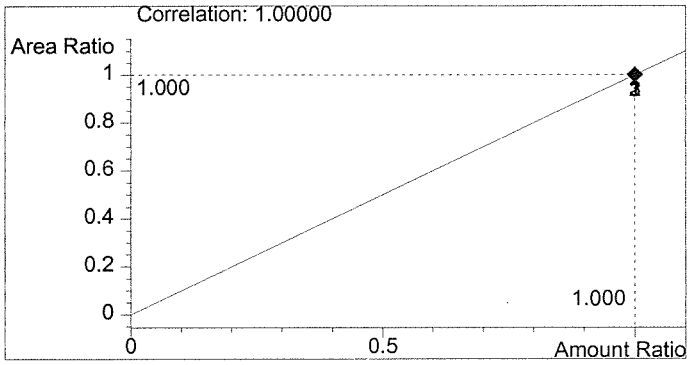
vial # 28



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3131	1.846
Totals:			



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

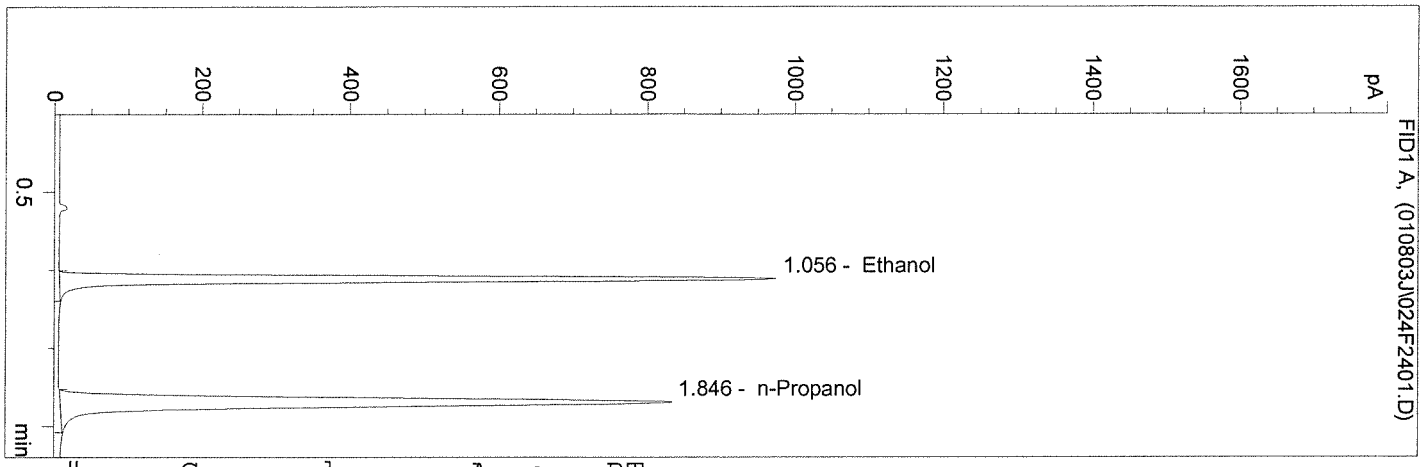
WASHINGTON STATE TOXICOLOGY LABORATORY

03004

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 4:50:28 PM
Instrument 2
DB-ALC1

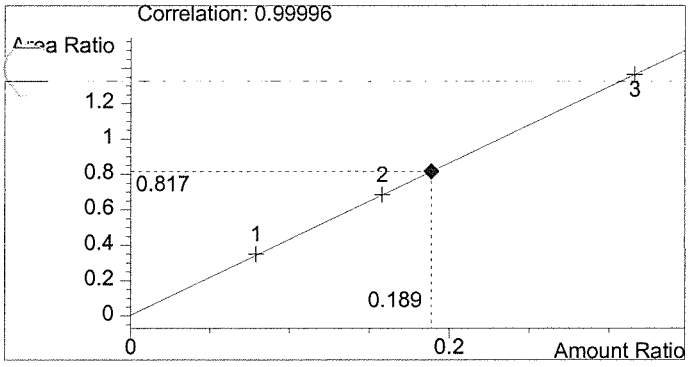
0.15 QA SOLUTION
Jayne E. Thatcher

vial # 24

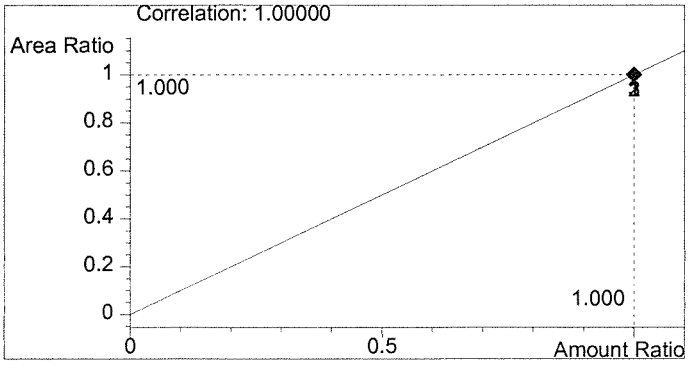


#	Compound	Area	RT
1	Ethanol	2621	1.056
2	n-Propanol	3207	1.846

Totals:



Ethanol 0.189 g/100ml



n-Propanol 1.000 g/100ml

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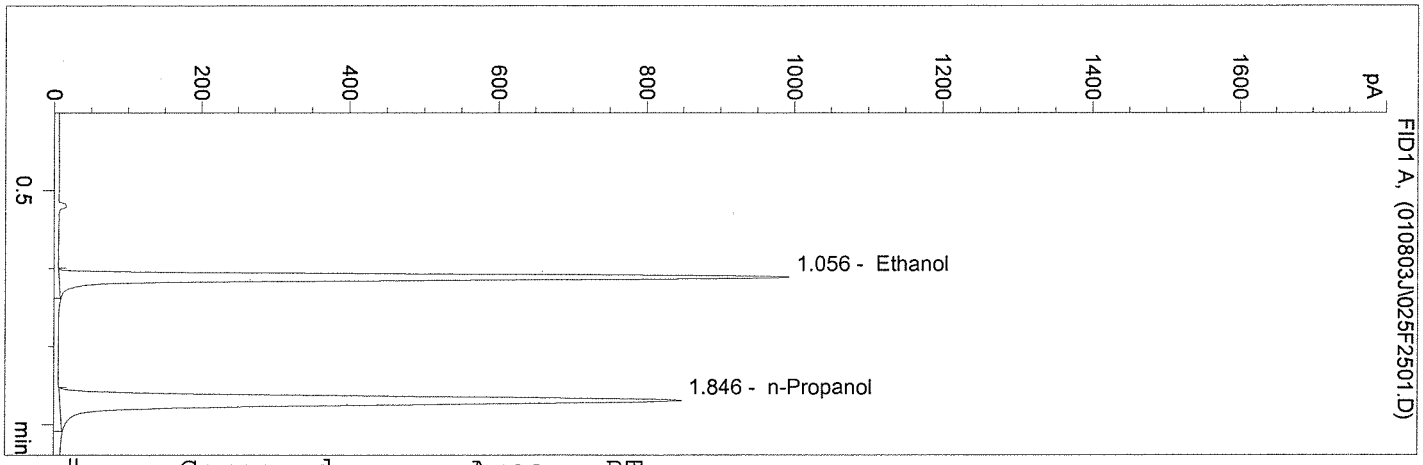
C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 4:53:49 PM
Instrument 2
DB-ALC1

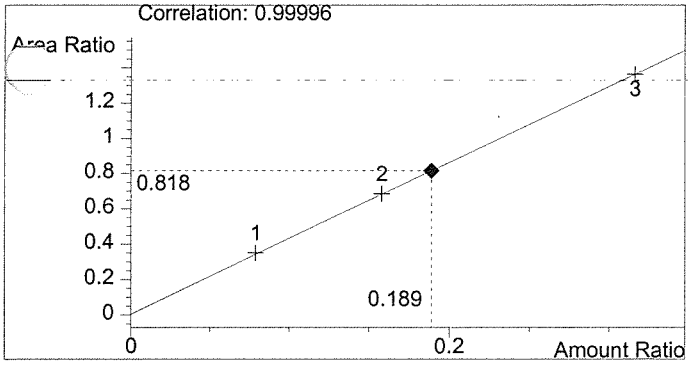
0.15 QA SOLUTION
Jayne E. Thatcher

vial # 25

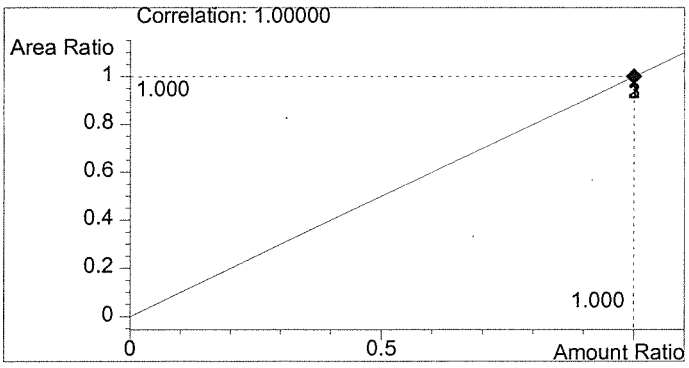


#	Compound	Area	RT
1	Ethanol	2673	1.056
2	n-Propanol	3269	1.846

Totals:



Ethanol 0.189 g/100ml



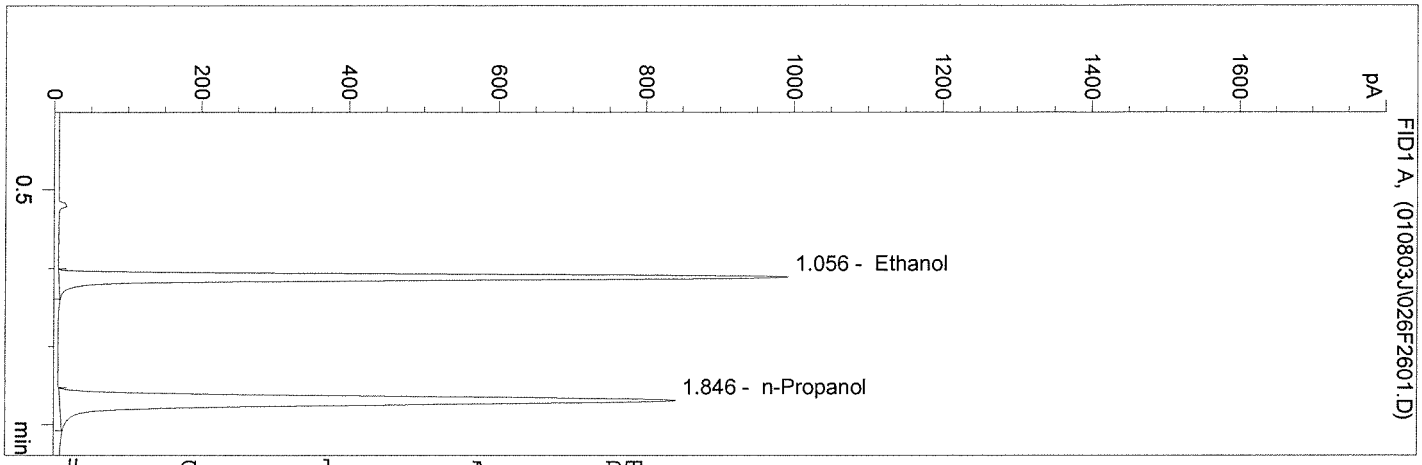
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 4:56:51 PM
Instrument 2
DB-ALC1

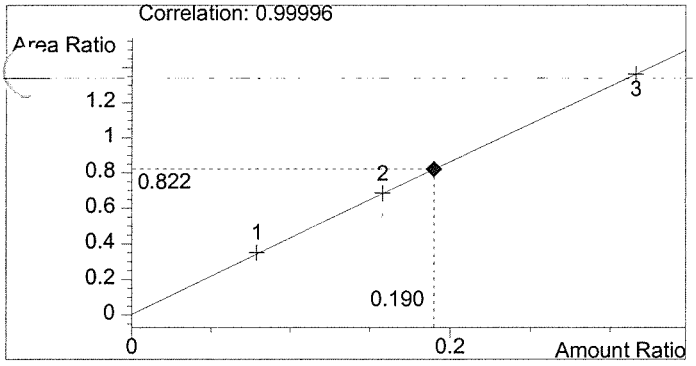
0.15 QA SOLUTION
Jayne E. Thatcher

vial # 26

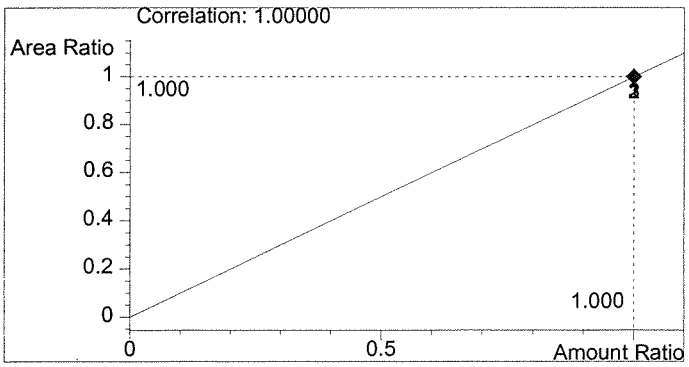


#	Compound	Area	RT
1	Ethanol	2661	1.056
2	n-Propanol	3235	1.846

Totals:



Ethanol 0.190 g/100ml



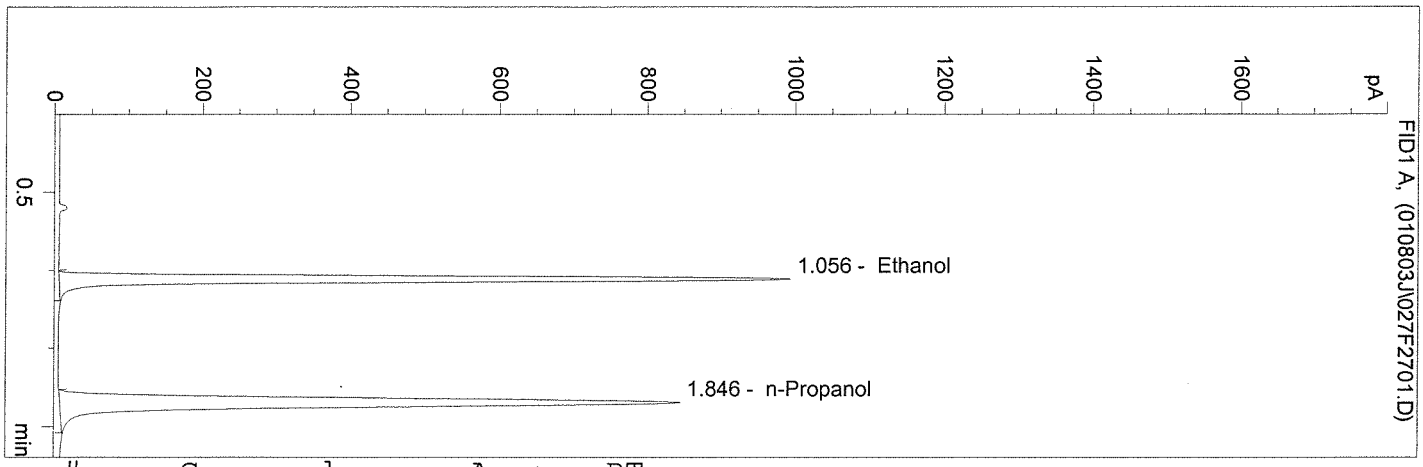
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 4:59:53 PM
Instrument 2
DB-ALC1

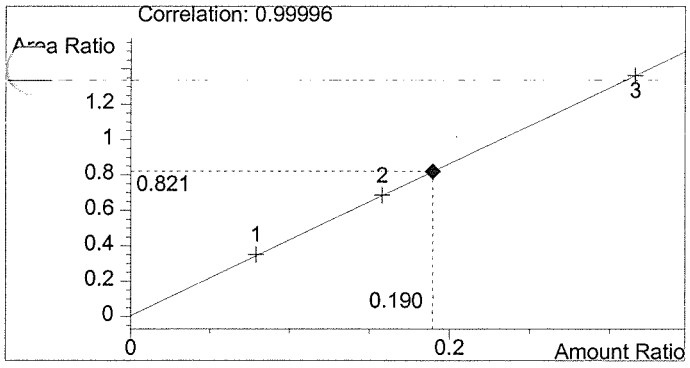
0.15 QA SOLUTION
Jayne E. Thatcher

vial # 27

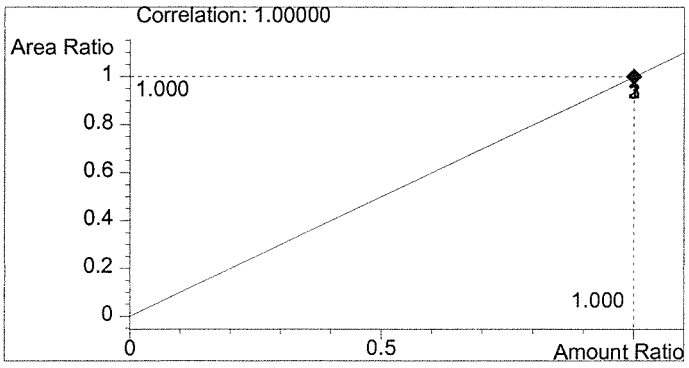


#	Compound	Area	RT
1	Ethanol	2670	1.056
2	n-Propanol	3253	1.846

Totals:



Ethanol 0.190 g/100ml



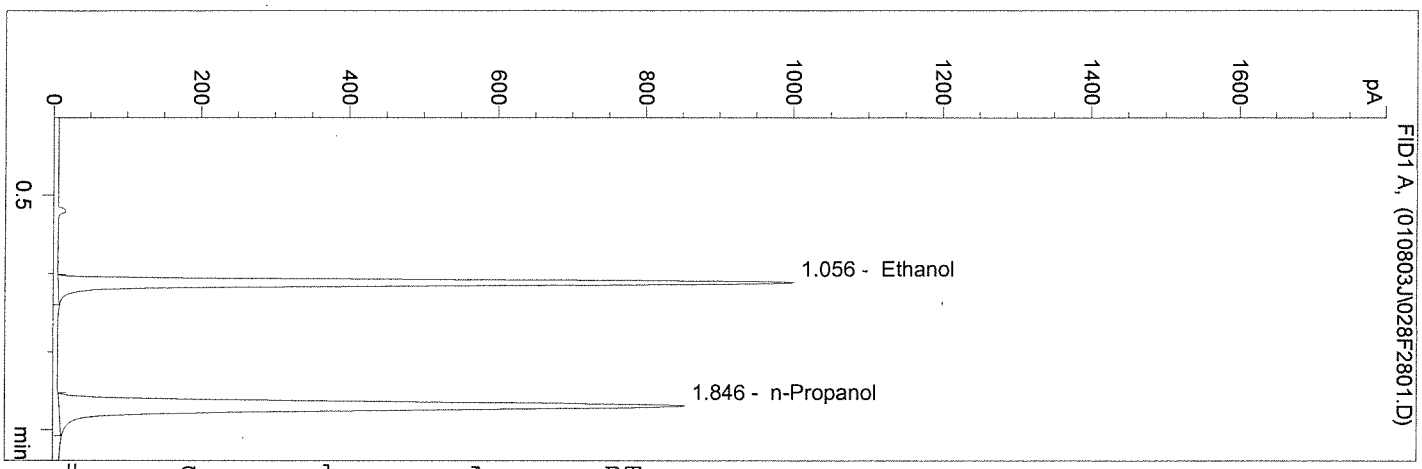
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 5:02:55 PM
Instrument 2
DB-ALC1

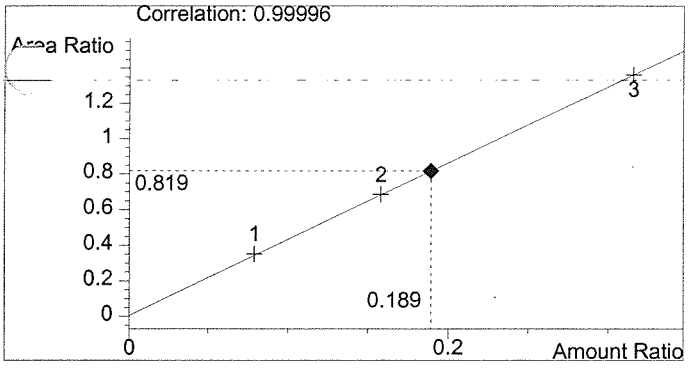
0.15 QA SOLUTION
Jayne E. Thatcher

vial # 28

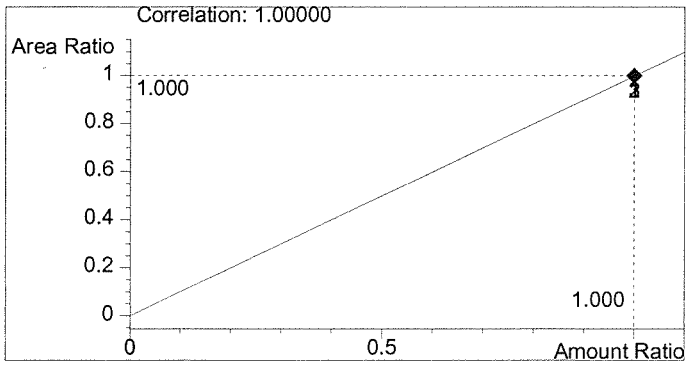


#	Compound	Area	RT
1	Ethanol	2692	1.056
2	n-Propanol	3287	1.846

Totals:



Ethanol 0.189 g/100ml



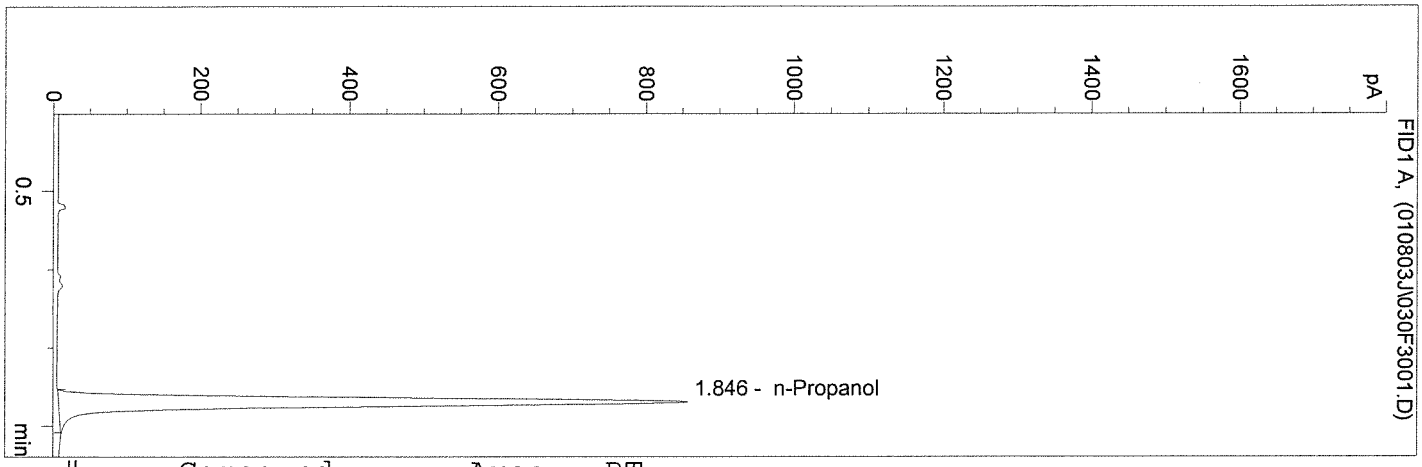
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 5:09:24 PM
Instrument 2
DB-ALC1

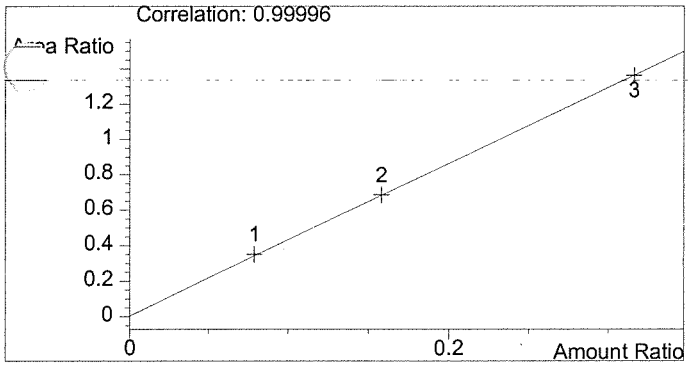
Blank
Jayne E. Thatcher

vial # 30

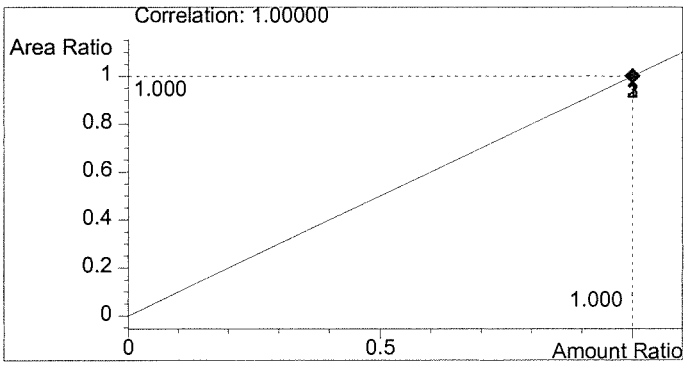


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3301	1.846

Totals:



Ethanol 0.000 g/100ml



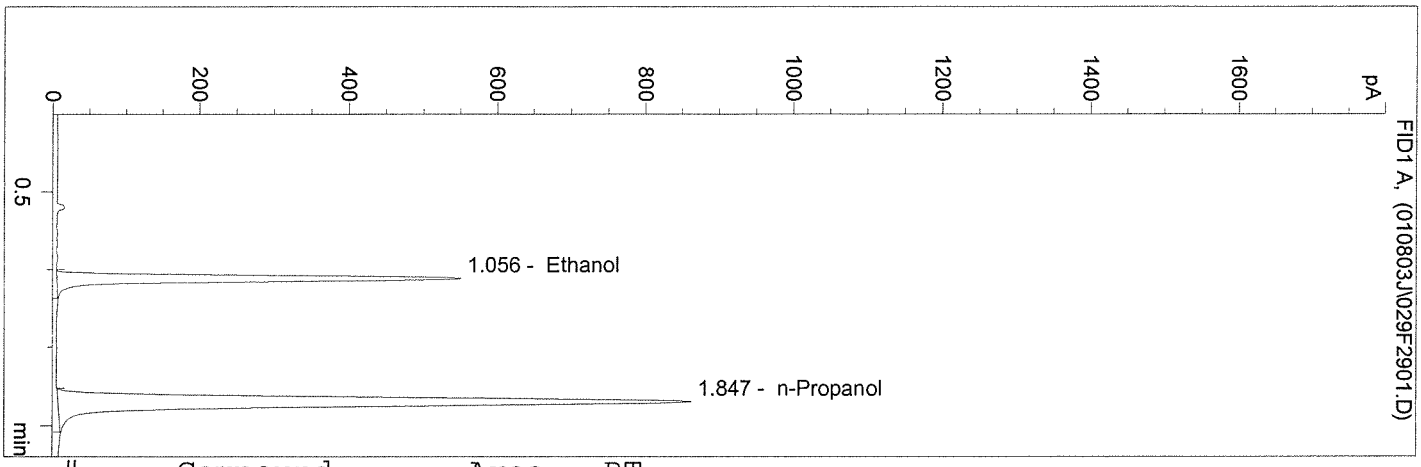
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/8/03 5:06:23 PM
Instrument 2
DB-ALC1

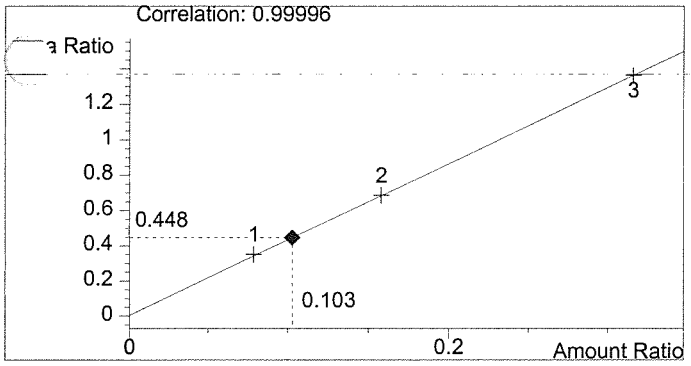
0.10 Control
Jayne E. Thatcher

vial # 29

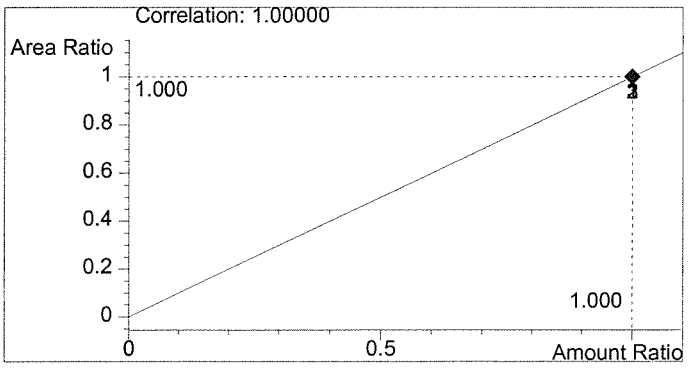


#	Compound	Area	RT
1	Ethanol	1488	1.056
2	n-Propanol	3324	1.847

Totals:



Ethanol 0.103 g/100ml

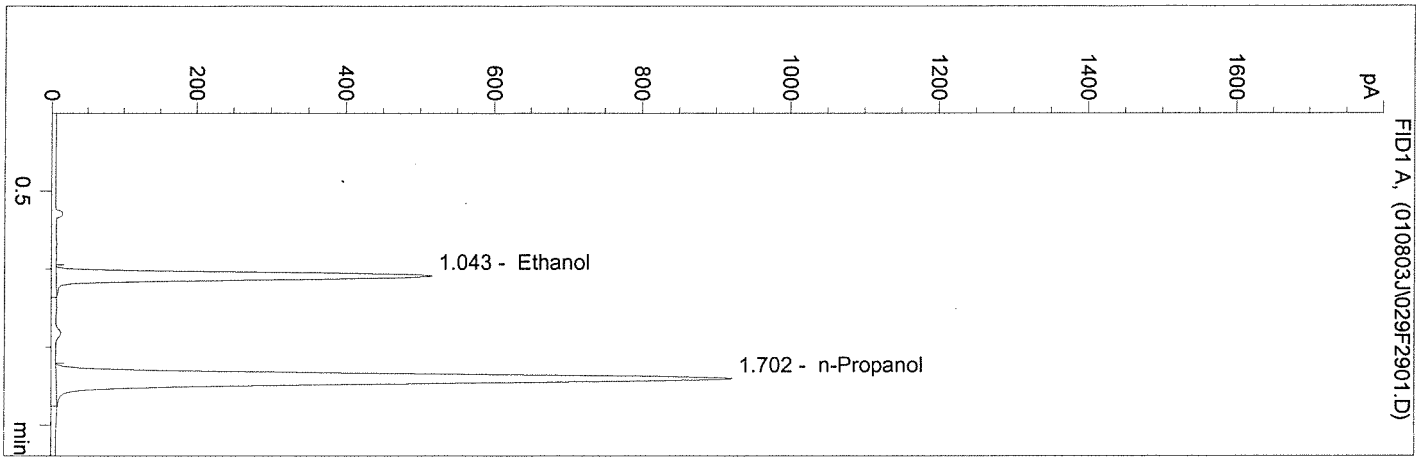


n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

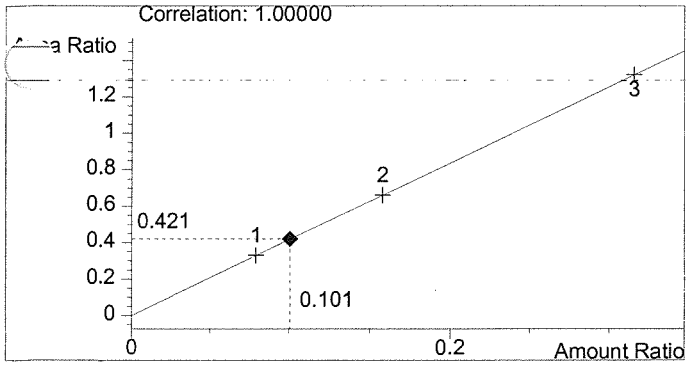
C:\HPCHEM\1\METHODS\BLDALCO.M
1/8/03 5:05:30 PM
Instrument 1
DB-ALC1

0.10 Control
Jayne E. Thatcher
vial # 29

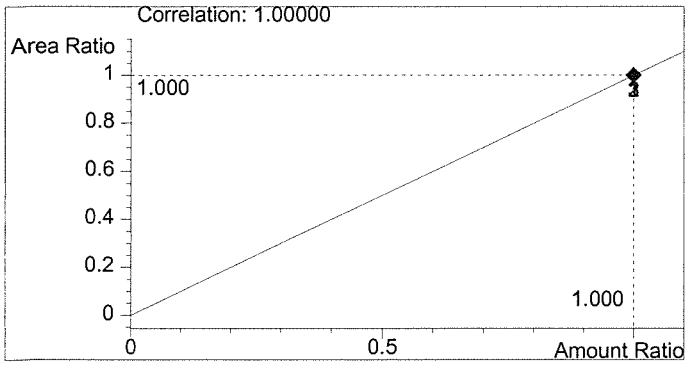


#	Compound	Area	RT
1	Ethanol	1662	1.043
2	n-Propanol	3946	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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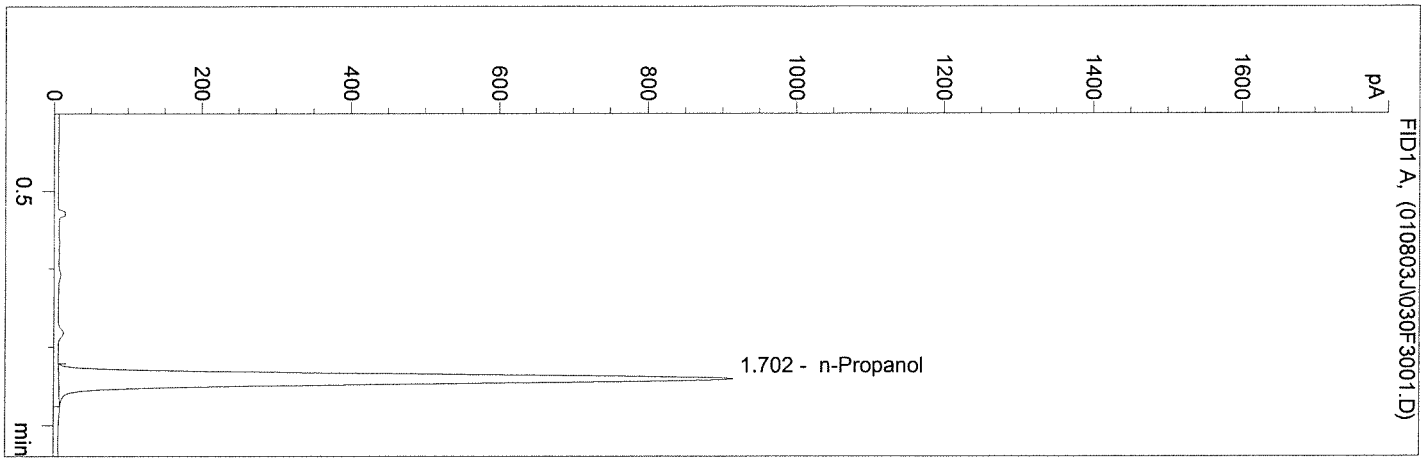
Instrument 1
DB-ALC1

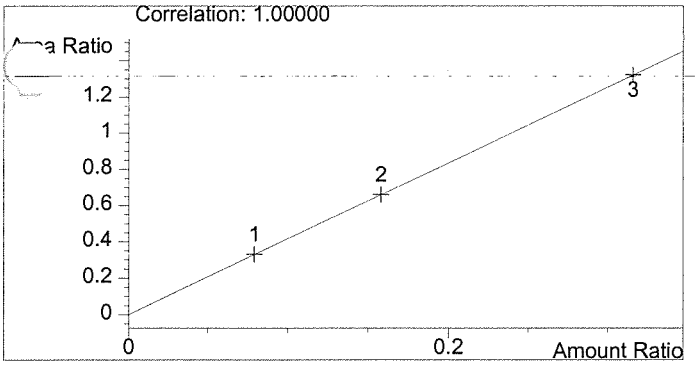
Blank
Jayne E. Thatcher

vial # 30

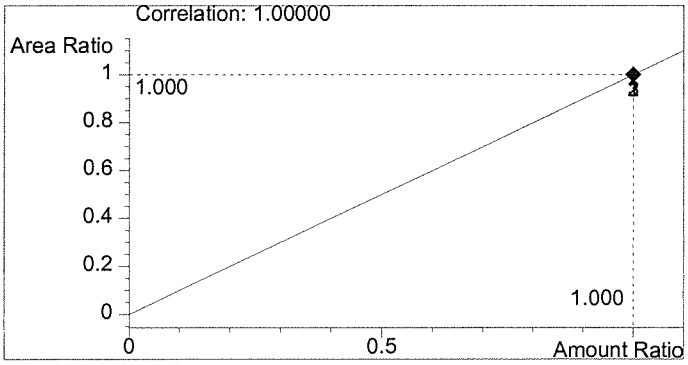


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3926	1.702

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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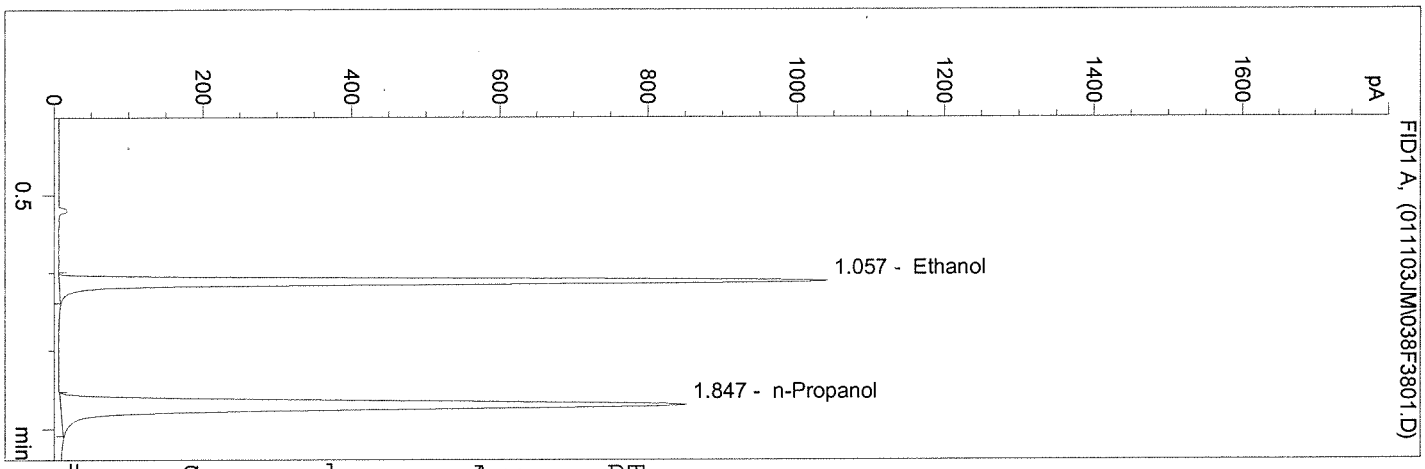
Instrument 2
-ALC1

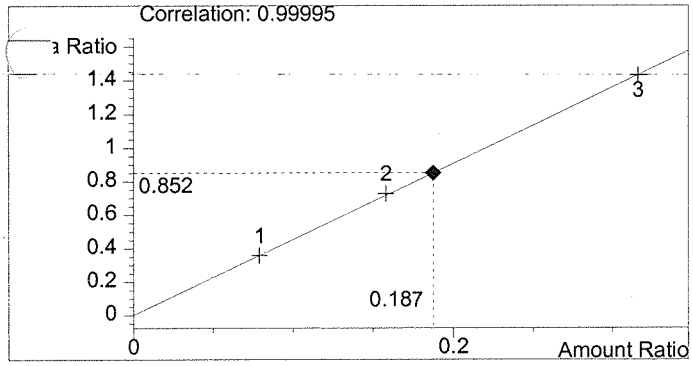
Q.A. Sol. 03004
Estuardo J. Miranda

vial # 38

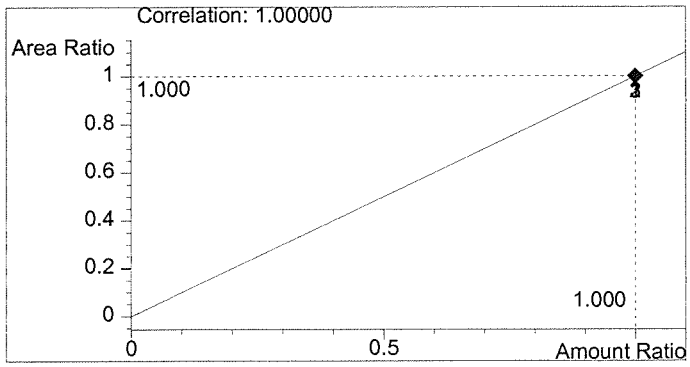


#	Compound	Area	RT
1	Ethanol	2797	1.057
2	n-Propanol	3285	1.847

Totals:



Ethanol 0.187 g/100ml



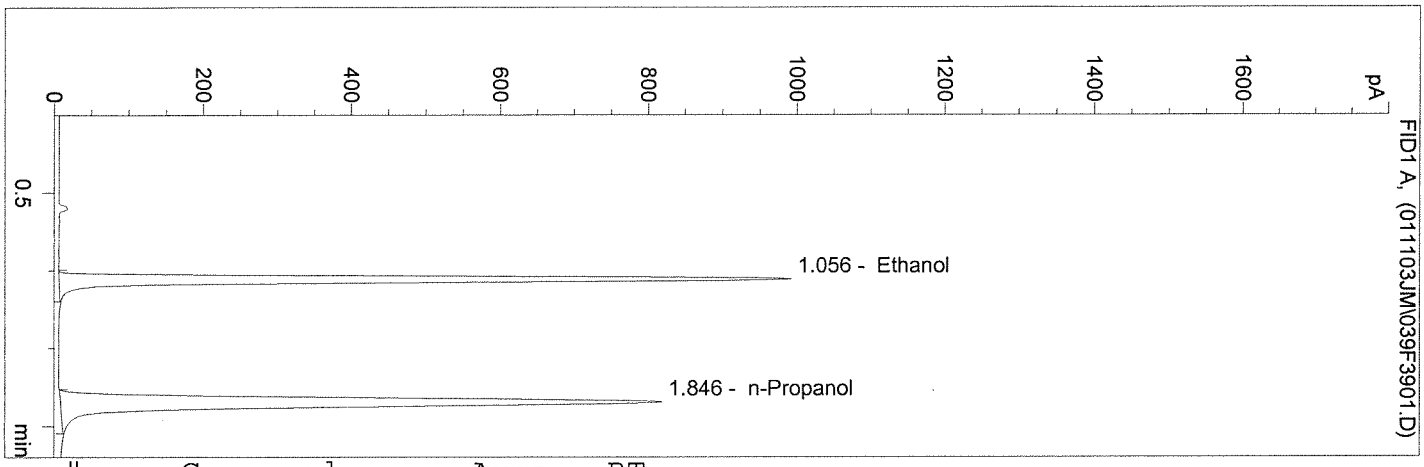
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/11/03 3:15:50 PM
Instrument 2
-ALC1

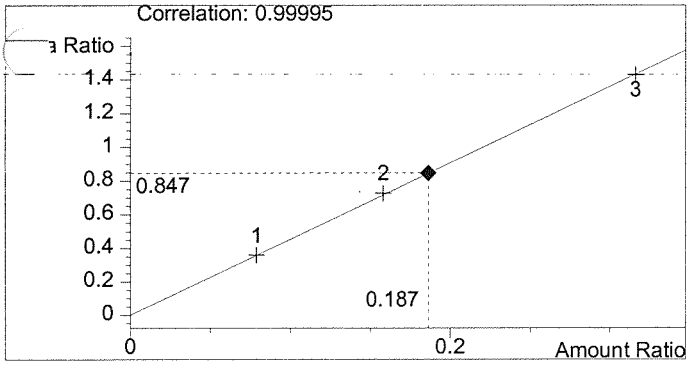
Q.A. Sol. 03004
Estuardo J. Miranda

vial # 39

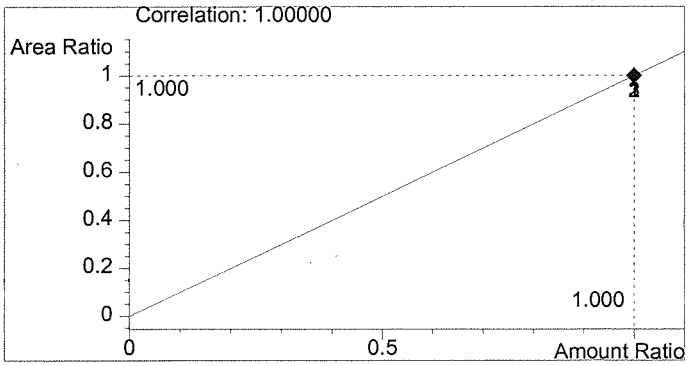


#	Compound	Area	RT
1	Ethanol	2677	1.056
2	n-Propanol	3159	1.846

Totals:



Ethanol 0.187 g/100ml



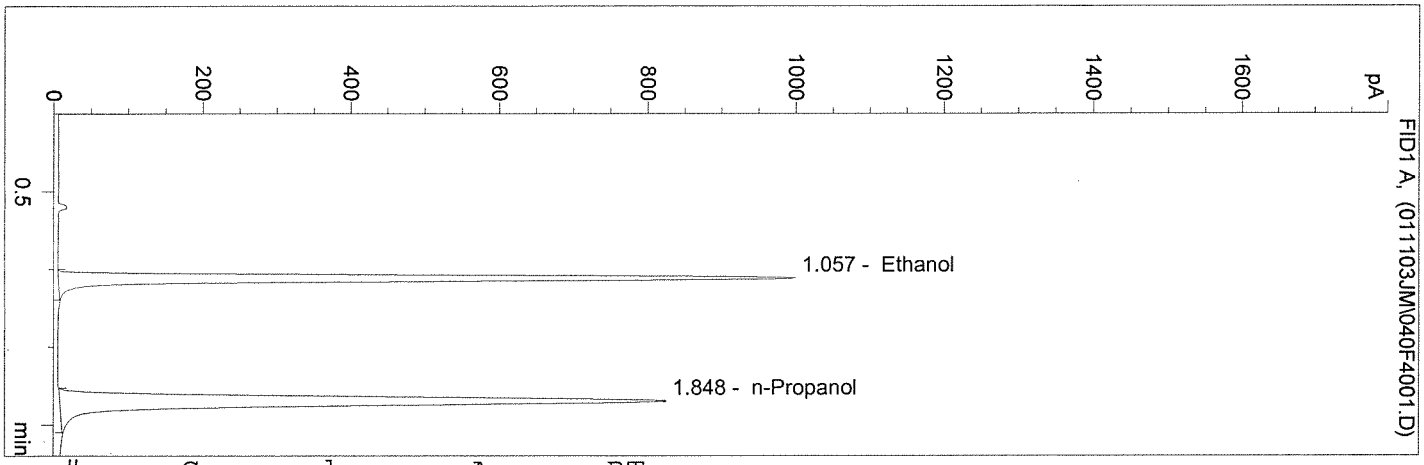
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/11/03 3:18:52 PM
Instrument 2
-ALC1

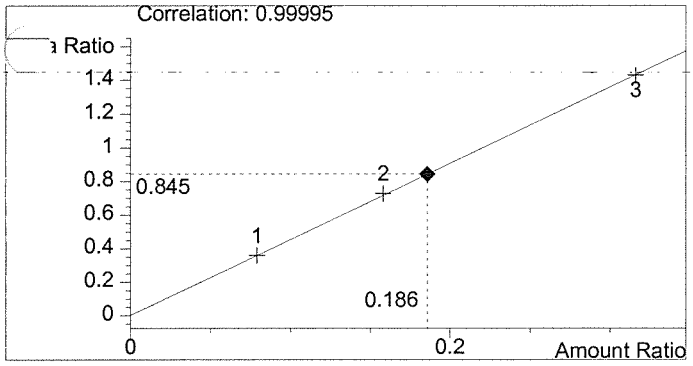
Q.A. Sol. 03004
Estuardo J. Miranda

vial # 40

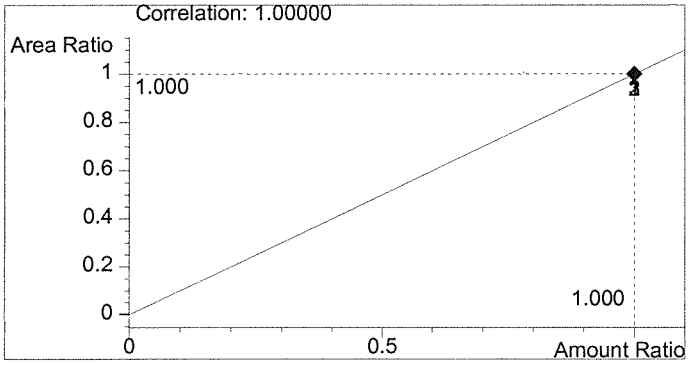


#	Compound	Area	RT
1	Ethanol	2689	1.057
2	n-Propanol	3184	1.848

Totals:



Ethanol 0.186 g/100ml



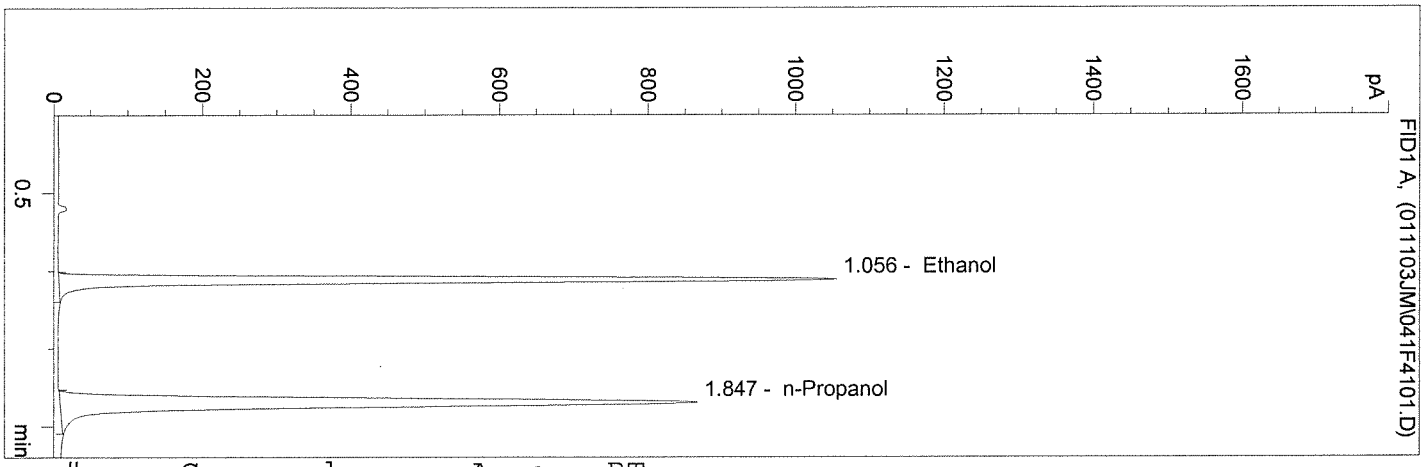
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/11/03 3:22:12 PM
Instrument 2
-ALC1

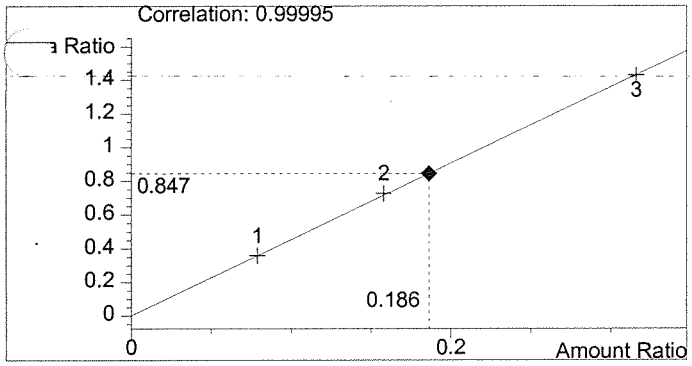
Q.A. Sol. 03004
Estuardo J. Miranda

vial # 41

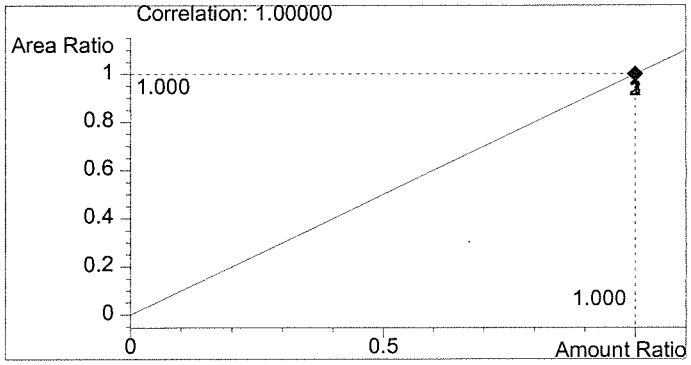


#	Compound	Area	RT
1	Ethanol	2836	1.056
2	n-Propanol	3348	1.847

Totals:



Ethanol 0.186 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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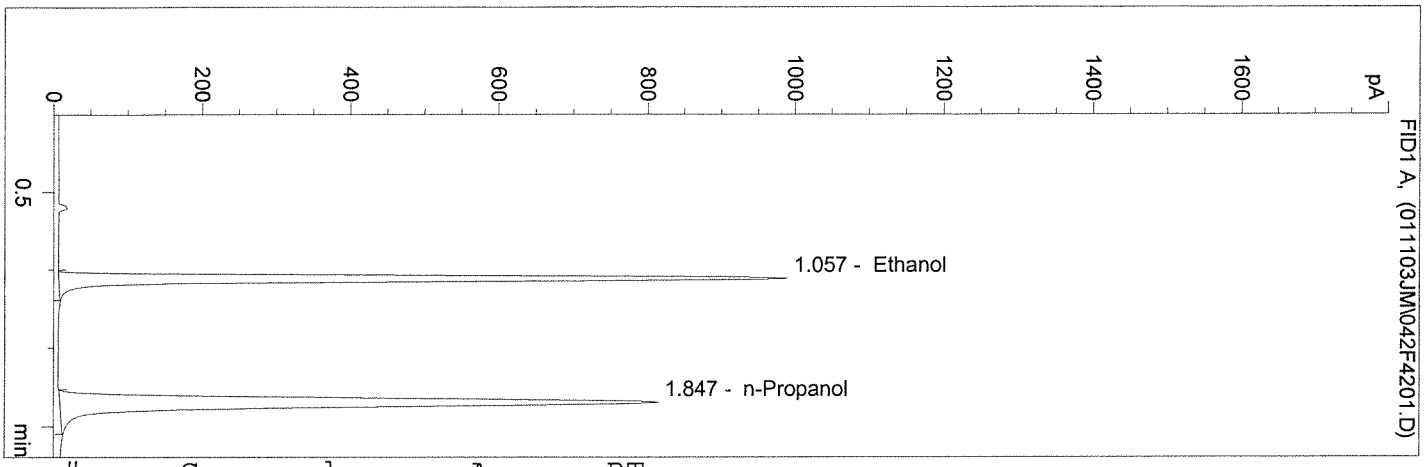
1/11/03 3:25:13 PM
Instrument 2
-ALC1

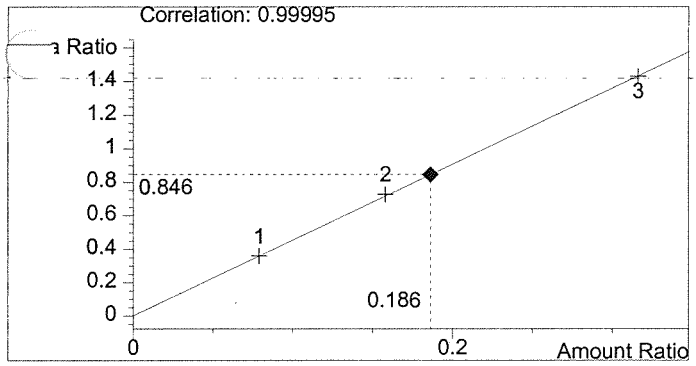
Q.A. Sol. 03004
Estuardo J. Miranda

vial # 42

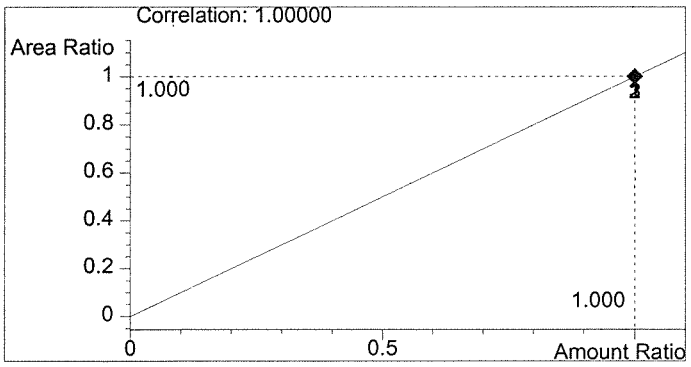


#	Compound	Area	RT
1	Ethanol	2662	1.057
2	n-Propanol	3146	1.847

Totals:



Ethanol 0.186 g/100ml



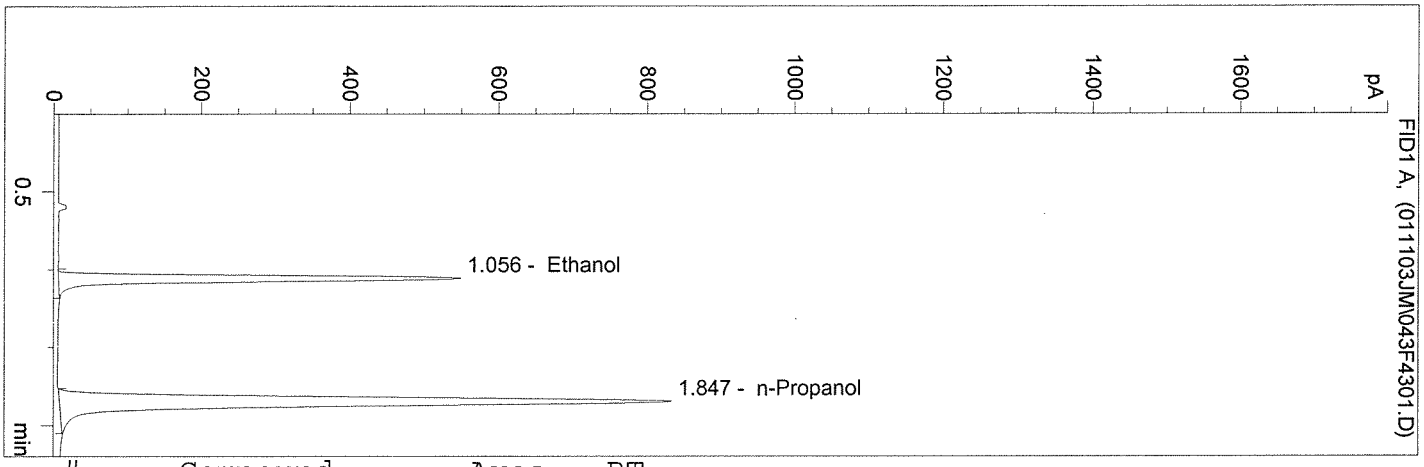
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/11/03 3:28:15 PM
Instrument 2
-ALC1

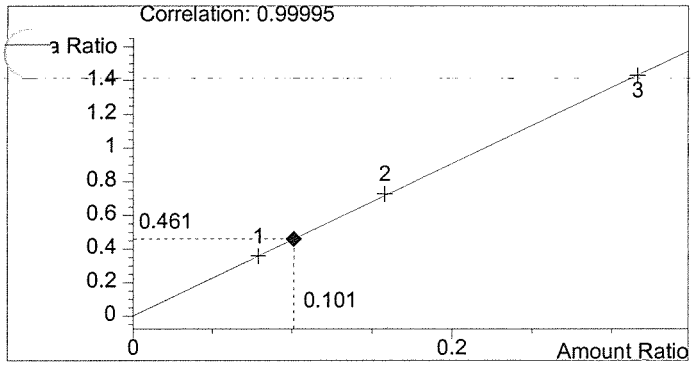
0.100 Control
Estuardo J. Miranda

vial # 43

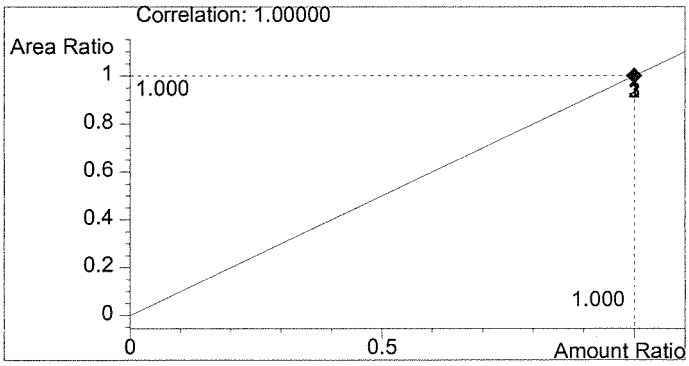


#	Compound	Area	RT
1	Ethanol	1482	1.056
2	n-Propanol	3213	1.847

Totals:



Ethanol 0.101 g/100ml



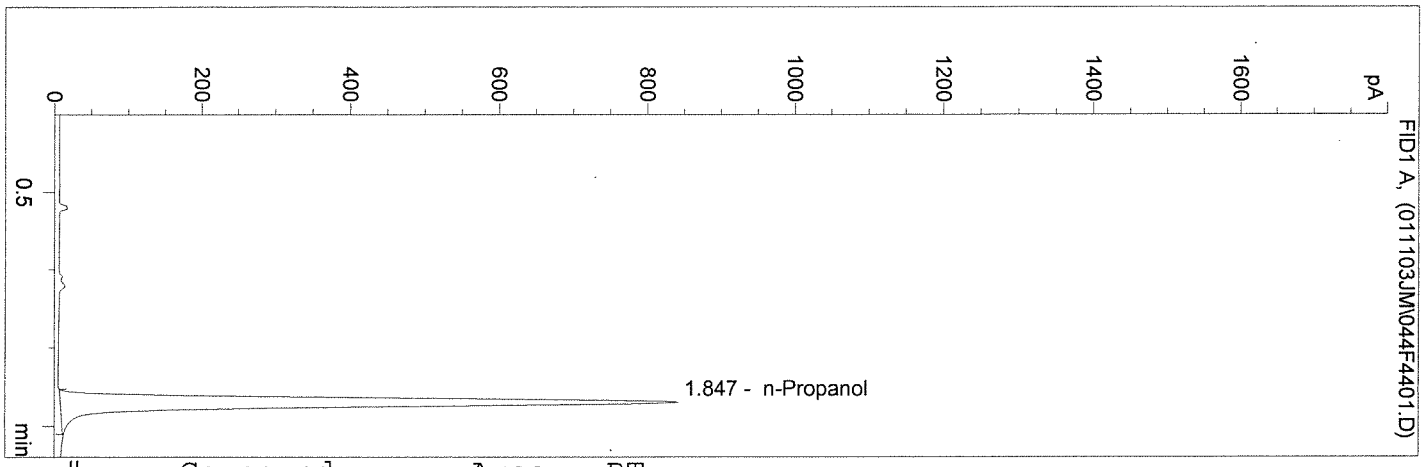
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
1/11/03 3:31:17 PM
Instrument 2
-ALC1

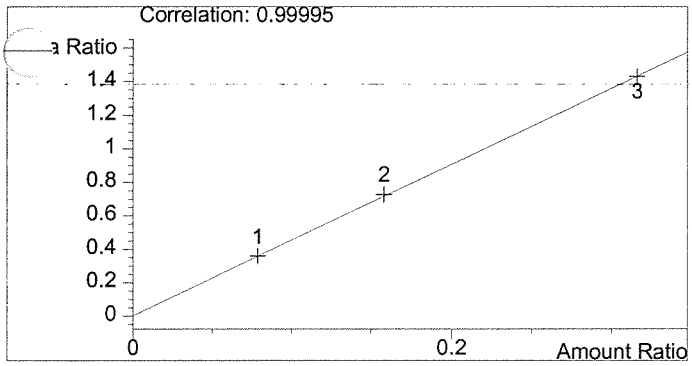
Blank
Estuardo J. Miranda

vial # 44

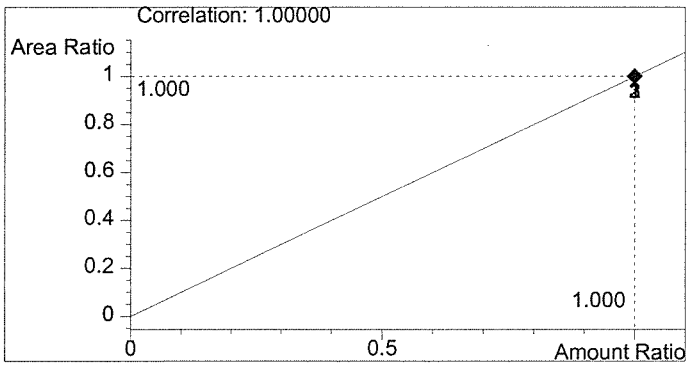


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3252	1.847

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml