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 **03012** Date: 4/21/2003

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	0.188	0.187	0.185	0.186								
2	0.188	0.188	0.190	0.186								
3	0.189	0.187	0.186	0.186								
4	0.190	0.188	0.185	0.186								
5	0.186	0.187	0.188	0.186								
Ctrl	0.100	0.101	0.099	0.099								

External Control:

Lot #: A022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1871 g/100 mL

SD: 0.00150

Range (3xSD): 0.1826 to 0.1916

Precision CV (%): 0.8020 %

Equivalent vapor concent.: 0.1521 g/210L

Analyst	Name	Signature	Date
1	Jayne E. Thatcher		04/22/03
2	Eugene Schwilke		04/22/03
3	Melissa Pemberton		04/25/03
4	William P Marshall		04/24/03
5			
6			
7			
8			
9			
10			
11			
12			

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

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath test instrument.

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

The quality assurance solution, Lot Number 03012, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 4/29/03
Seattle, WA

Jayne E. Thatcher
Forensic Toxicologist

JET/bf
JTQA

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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 six years of experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03012 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 4/29/03
Seattle, WA

Gene Schwilke

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

GS/bf
GSQA

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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 03012 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 4/29/03
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/bf
MPQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, William P. Marshall, 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 Chemistry and twenty-nine years of analytical laboratory experience including thirteen years of toxicology experience.

The quality assurance solution, Lot Number 03012 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 4/29/03
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/bf
WMQA

STANDARDS
IN 032479

Sequence Parameters:

Operator:	Jayne E. Thatcher
Data File Naming:	Auto
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	042103T
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none
Sequence Comment:	

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	ST032479	BLDALCO	1	Ctrl Samp		
2	2	03012 QA soln	BLDALCO	1	Sample		
3	3	03012 QA soln	BLDALCO	1	Sample		
4	4	03012 QA soln	BLDALCO	1	Sample		
5	5	03012 QA soln	BLDALCO	1	Sample		
6	6	03012 QA soln	BLDALCO	1	Sample		
7	7	0.10 CONTROL	BLDALCO	1	Sample		
8	8	BLANK	BLDALCO	1	Sample		

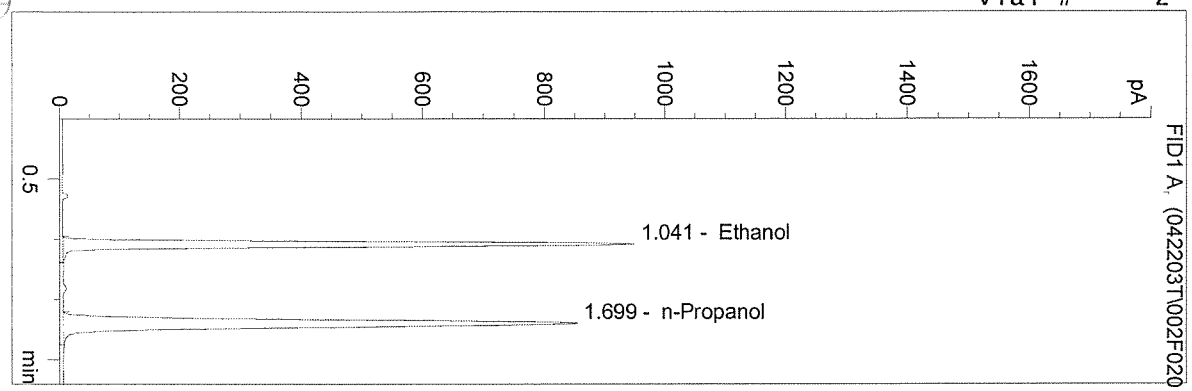
Sequence Table (Back Injector):

No entries - empty table!

:\HPCHEM\1\METHODS\BLDALCO.M
/22/03 8:06:35 AM
nstrument 1
ALC1

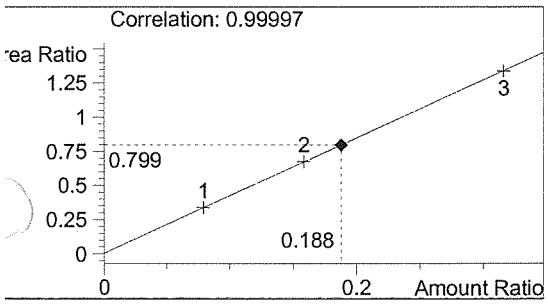
03012 QA soln
Jayne E. Thatcher

vial # 2

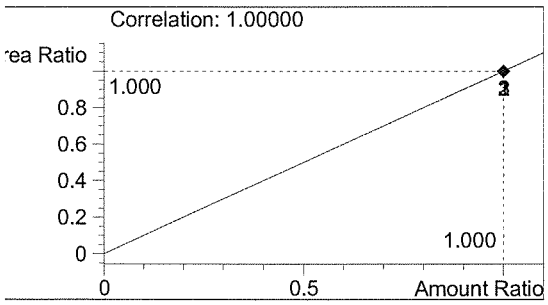


#	Compound	Area	RT
1	Ethanol	2832	1.041
2	n-Propanol	3545	1.699

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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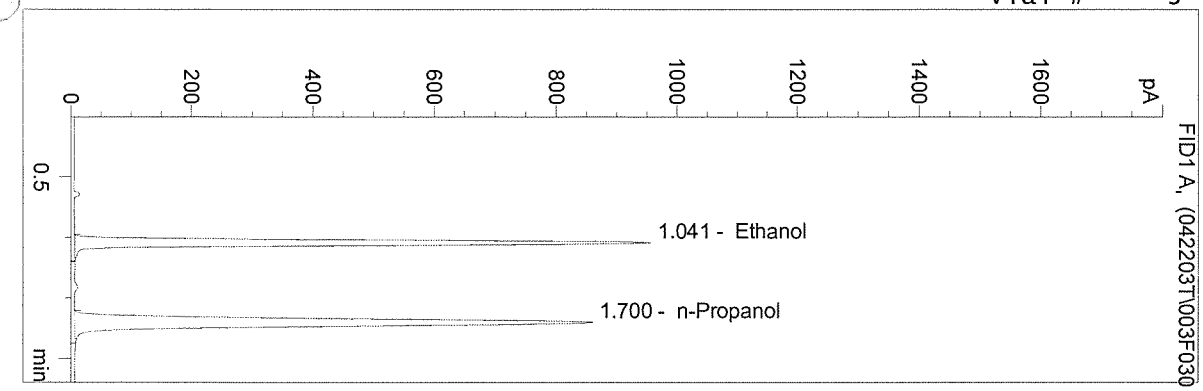
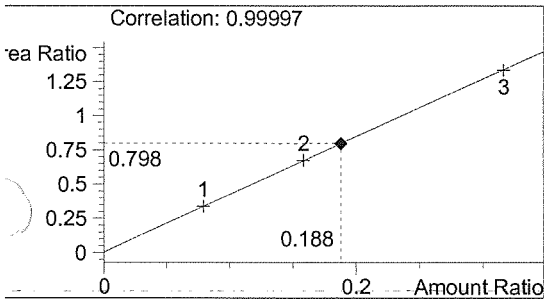
:\HPCHEM\1\METHODS\BLDALCO.M
/22/03 8:09:37 AM
ıstrument 1
ALC1

03012 QA soln
Jayne E. Thatcher

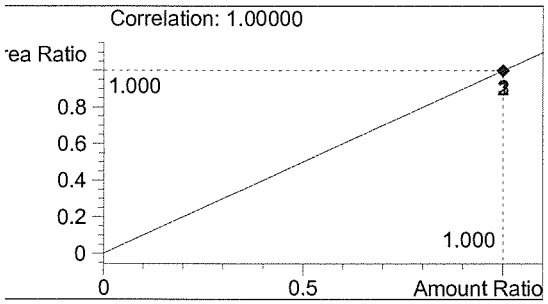
vial # 3



#	Compound	Area	RT
1	Ethanol	2865	1.041
2	n-Propanol	3589	1.700
Totals:			



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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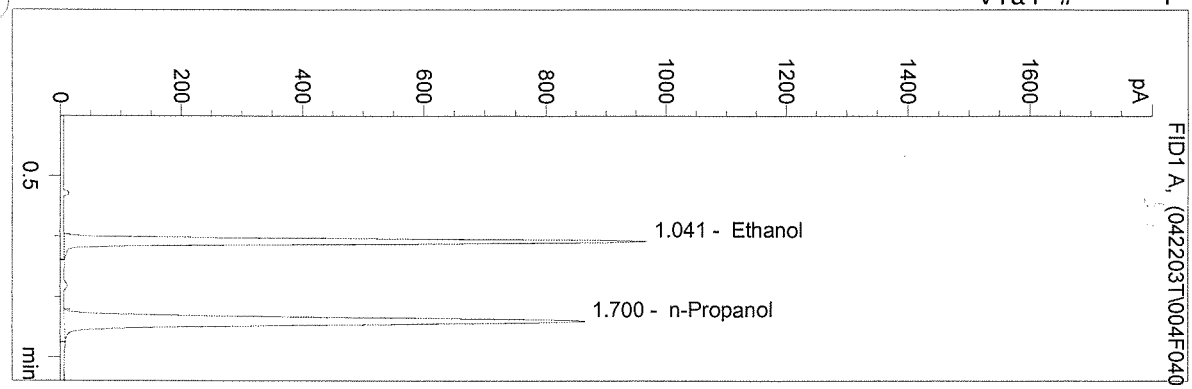
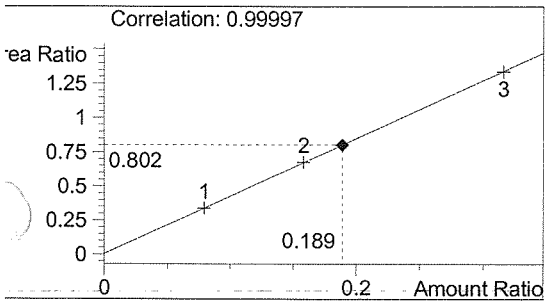
:\HPCHEM\1\METHODS\BLDALCO.M
/22/03 8:12:39 AM
ıstrument 1
ALC1

03012 QA soln
Jayne E. Thatcher

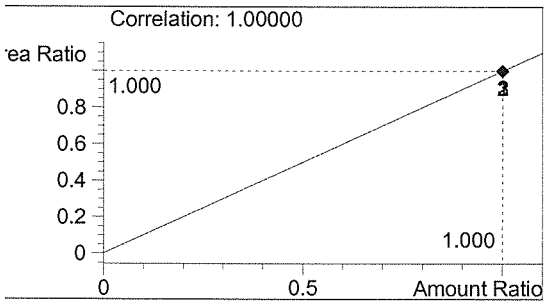
vial # 4



#	Compound	Area	RT
1	Ethanol	2894	1.041
2	n-Propanol	3606	1.700
Totals:			



Ethanol 0.189 g/100ml

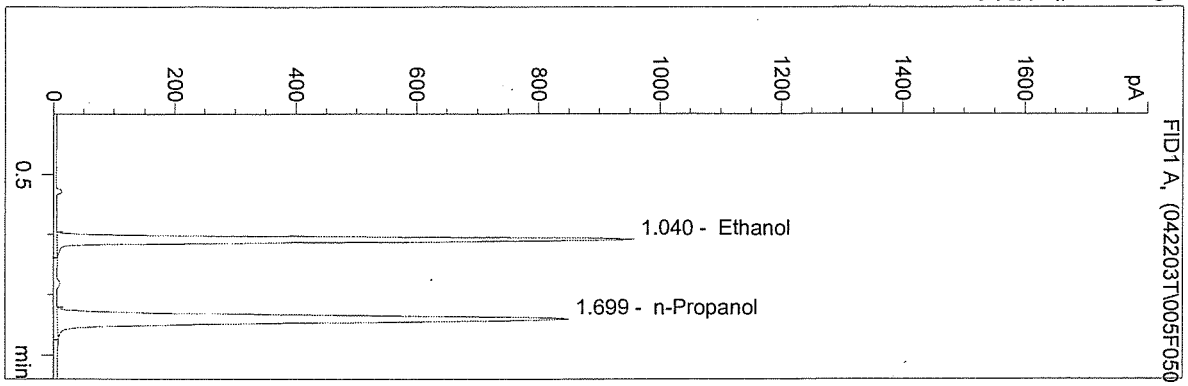


n-Propanol 1.000 g/100ml

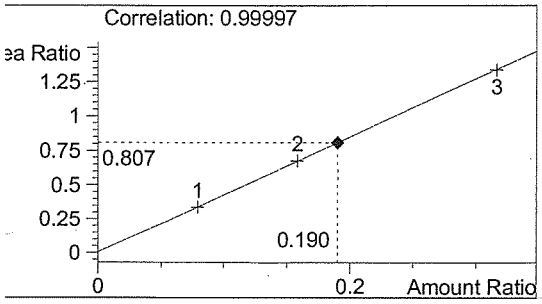
\HPCHEM\1\METHODS\BLDALCO.M
'22/03 8:16:16 AM
ıstrument 1
ALC1

03012 QA soln
Jayne E. Thatcher

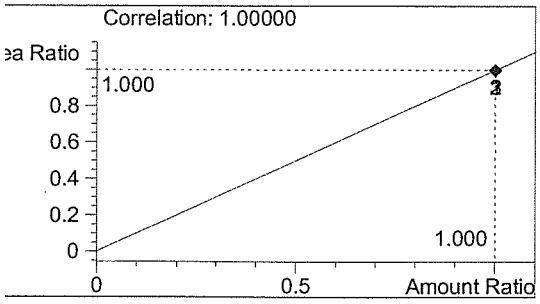
vial # 5



#	Compound	Area	RT
1	Ethanol	2860	1.040
2	n-Propanol	3544	1.699
Totals:			



Ethanol 0.190 g/100ml



n-Propanol 1.000 g/100ml

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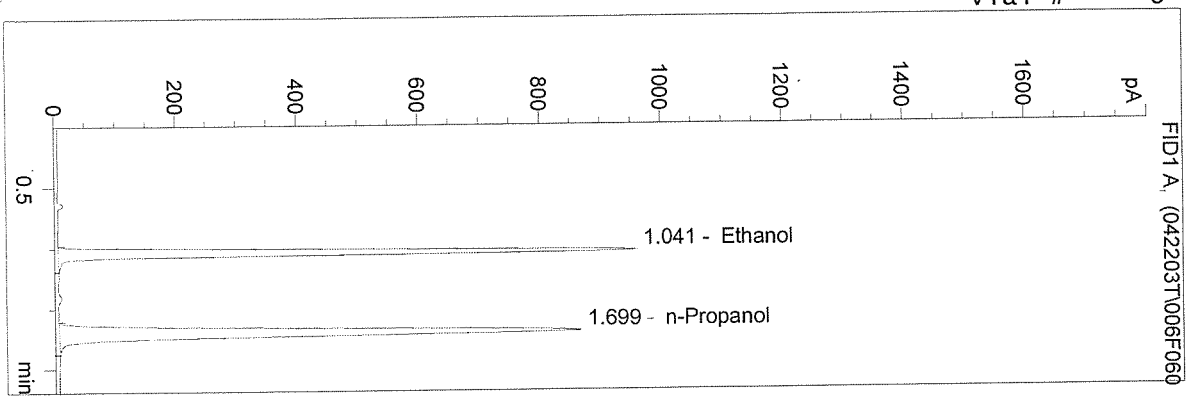
\HPCHEM\1\METHODS\BLDALCO.M
22/03 8:19:17 AM
strument 1
\ALC1

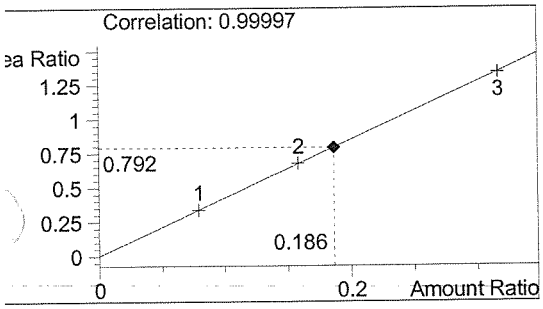
03012 QA soln
Jayne E. Thatcher

vial # 6

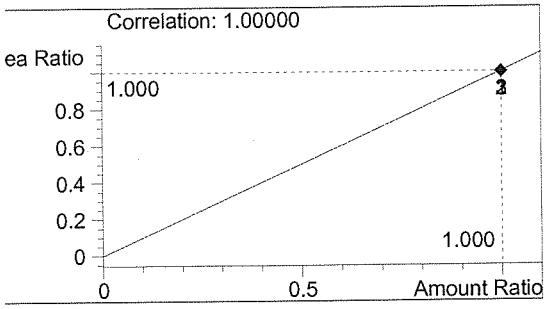


#	Compound	Area	RT
1	Ethanol	2869	1.041
2	n-Propanol	3623	1.699

Totals:



Ethanol 0.186 g/100ml

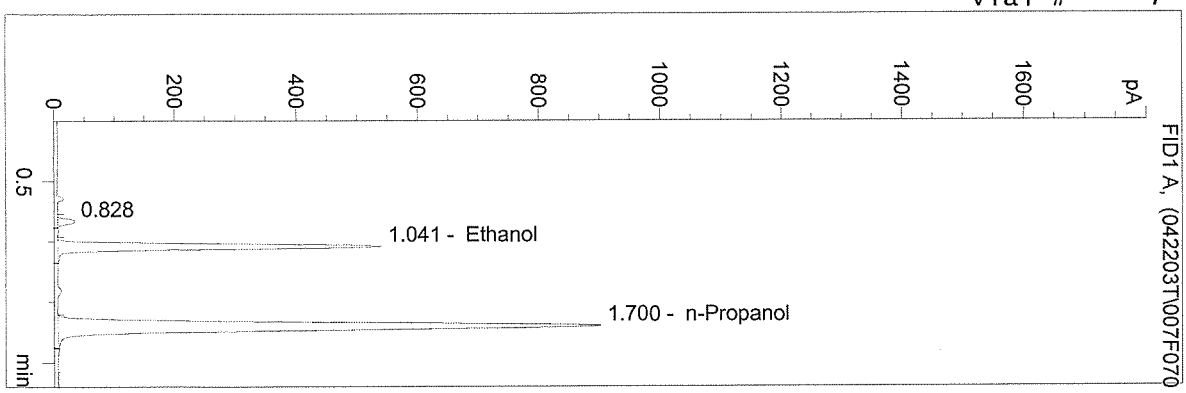


n-Propanol 1.000 g/100ml

\HPCHEM\1\METHODS\BLDALCO.M
22/03 8:22:19 AM
strument 1
ALC1

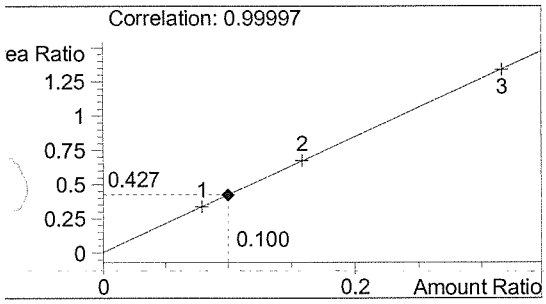
0.10 CONTROL
Jayne E. Thatcher

vial # 7

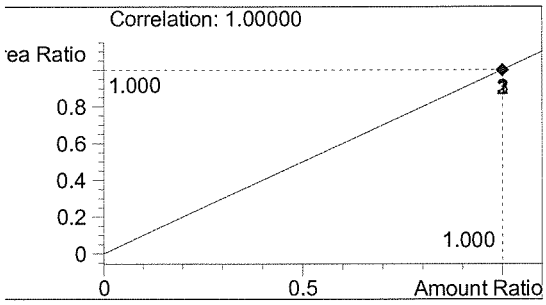


#	Compound	Area	RT
1		84	0.828
2	Ethanol	1603	1.041
3	n-Propanol	3756	1.700

Totals:



Ethanol 0.100 g/100ml

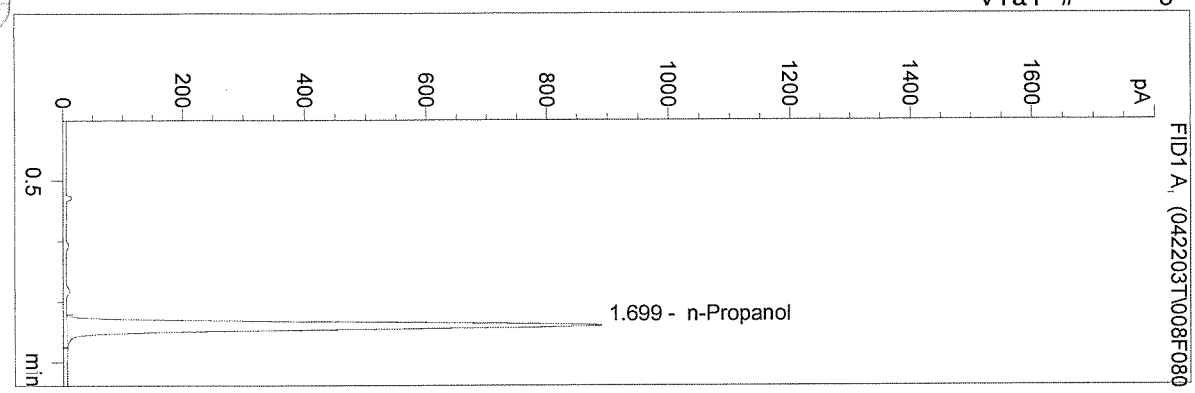


n-Propanol 1.000 g/100ml

\HPCHEM\1\METHODS\BLDALCO.M
22/03 8:25:21 AM
strument 1
ALC1

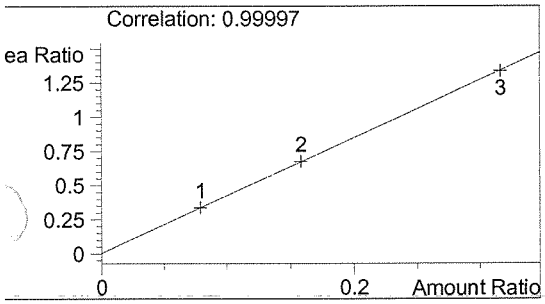
BLANK
Jayne E. Thatcher

vial # 8

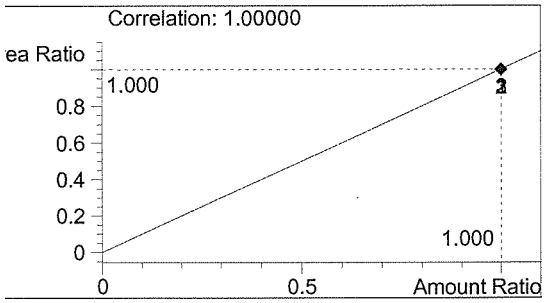


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3702	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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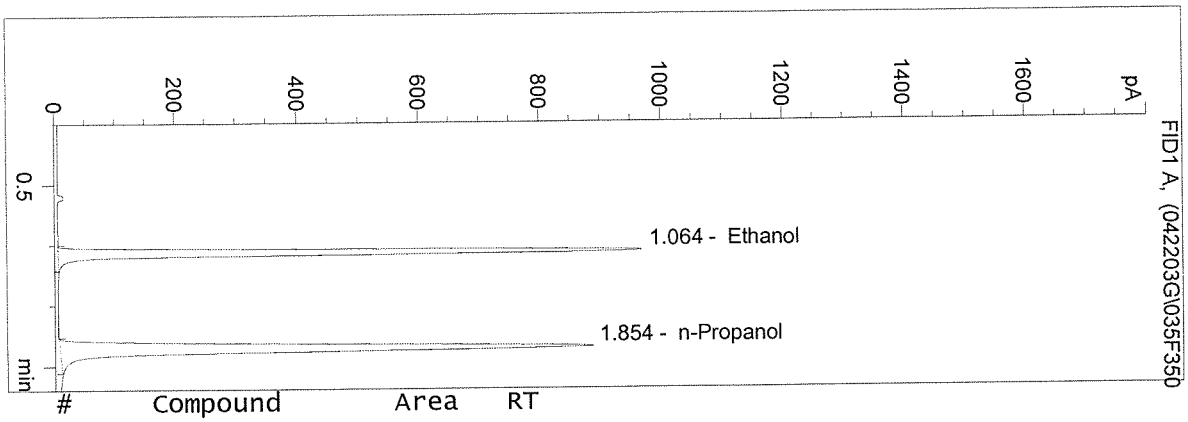
\HPCHEM\2\METHODS\BLDALCO2.M
22/03 2:05:21 PM
strument 2
ALC1

0.15 QASOL 03012
Gene Schwilke

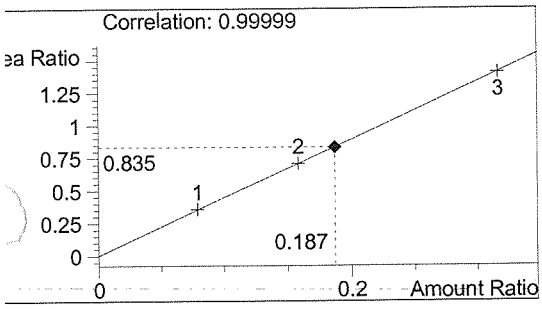
vial # 35

STDS
032485

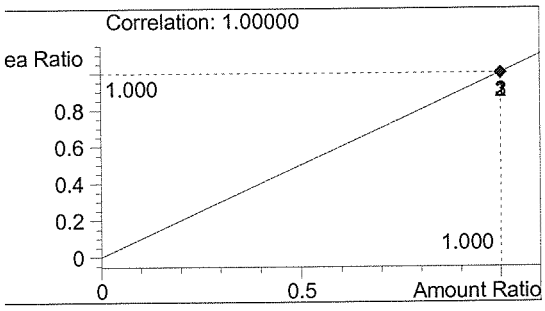


#	Compound	Area	RT
1	Ethanol	2990	1.064
2	n-Propanol	3580	1.854

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

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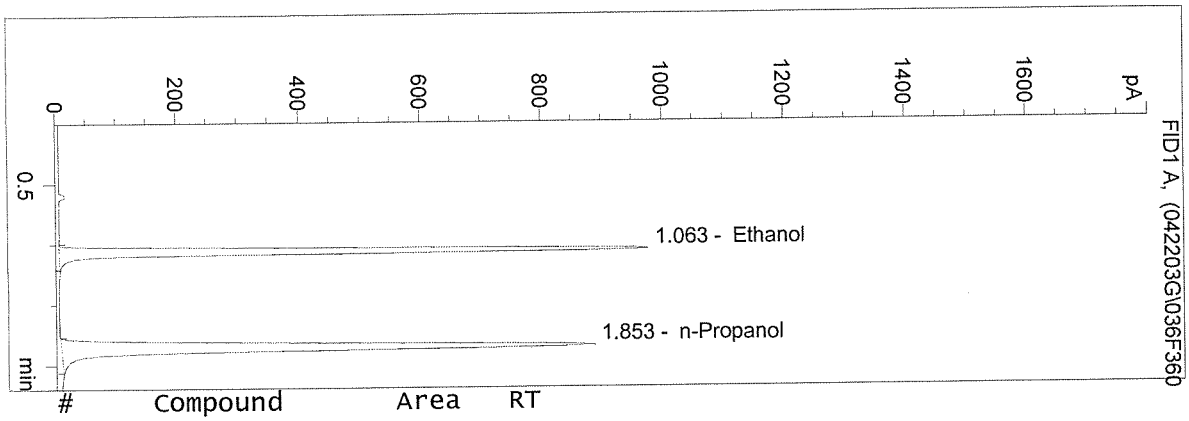
\HPCHEM\2\METHODS\BLDALCO2.M
22/03 2:08:22 PM
strument 2
ALC1

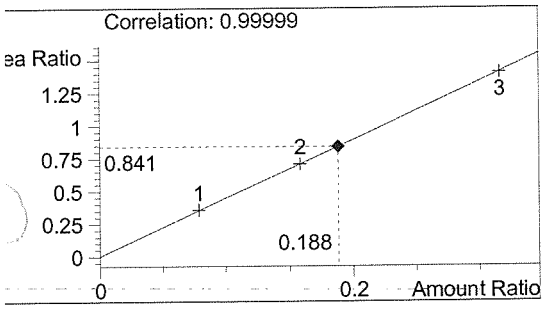
0.15 QASOL 03012
Gene Schwilke

vial # 36

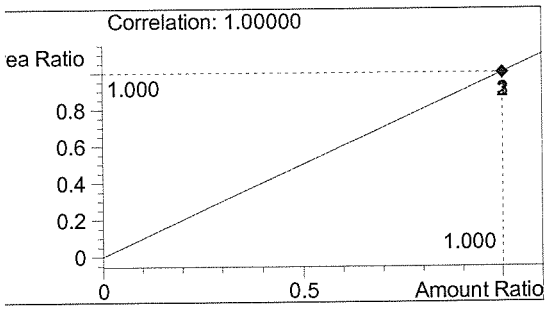


#	Compound	Area	RT
1	Ethanol	2998	1.063
2	n-Propanol	3565	1.853

Totals:



Ethanol 0.188 g/100ml



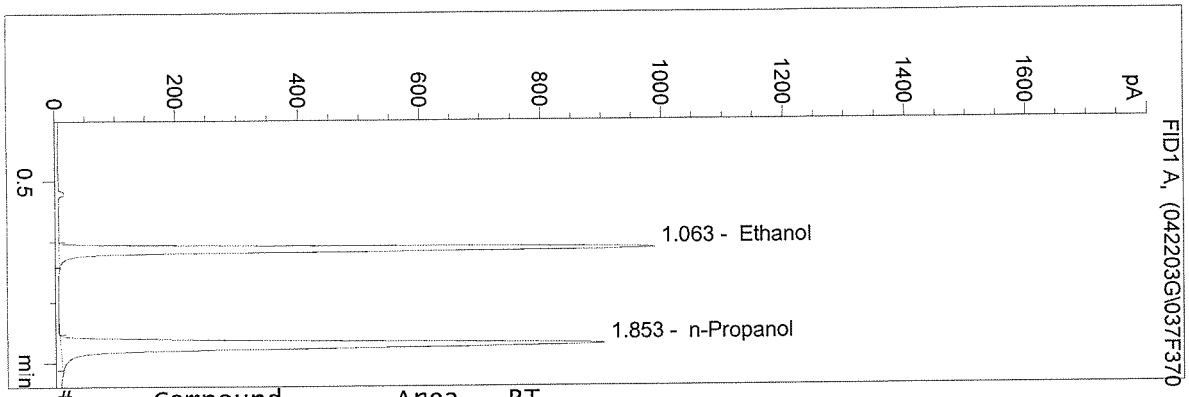
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

\HPCHEM\2\METHODS\BLDALCO2.M
22/03 2:11:29 PM
strument 2
ALC1

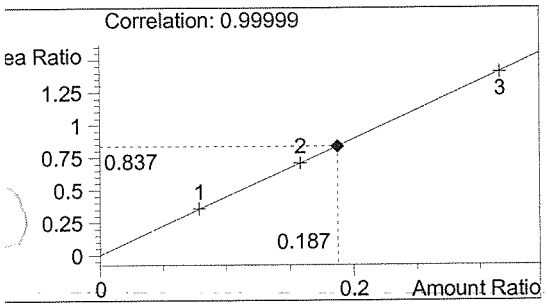
0.15 QASOL 03012
Gene Schwilke

vial # 37

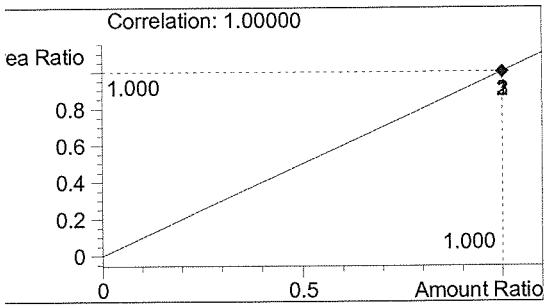


#	Compound	Area	RT
1	Ethanol	3042	1.063
2	n-Propanol	3633	1.853

Totals:



Ethanol 0.187 g/100ml

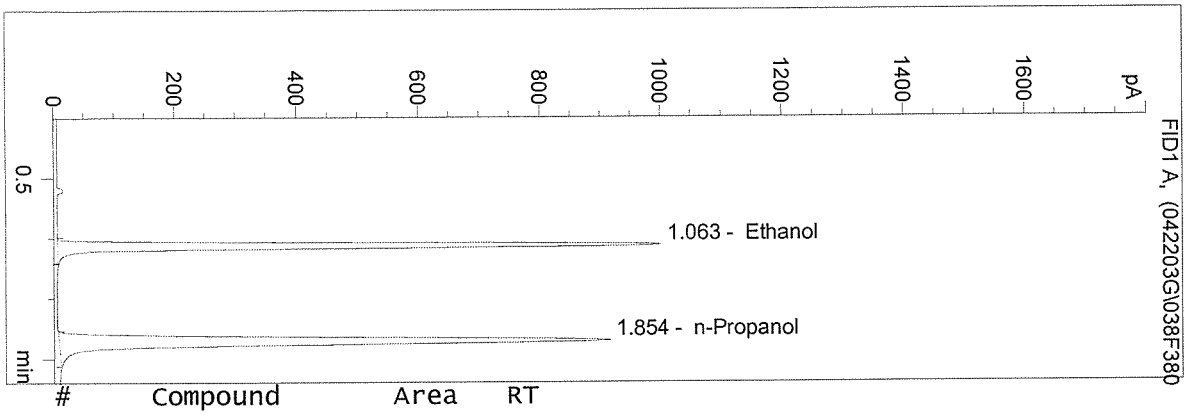


n-Propanol 1.000 g/100ml

\HPCHEM\2\METHODS\BLDALCO2.M
22/03 2:14:31 PM
strument 2
ALC1

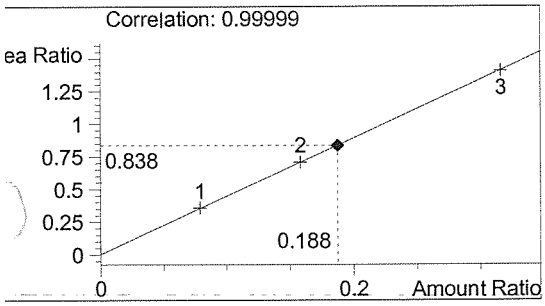
0.15 QASOL 03012
Gene Schwilke

vial # 38

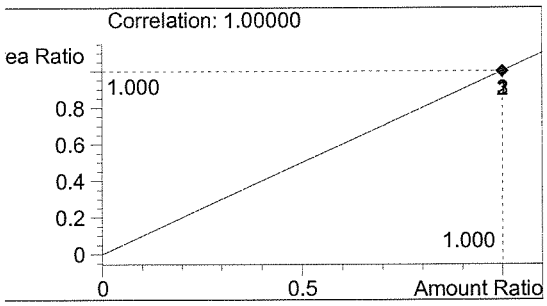


#	Compound	Area	RT
1	Ethanol	3090	1.063
2	n-Propanol	3689	1.854

Totals:



Ethanol 0.188 g/100ml

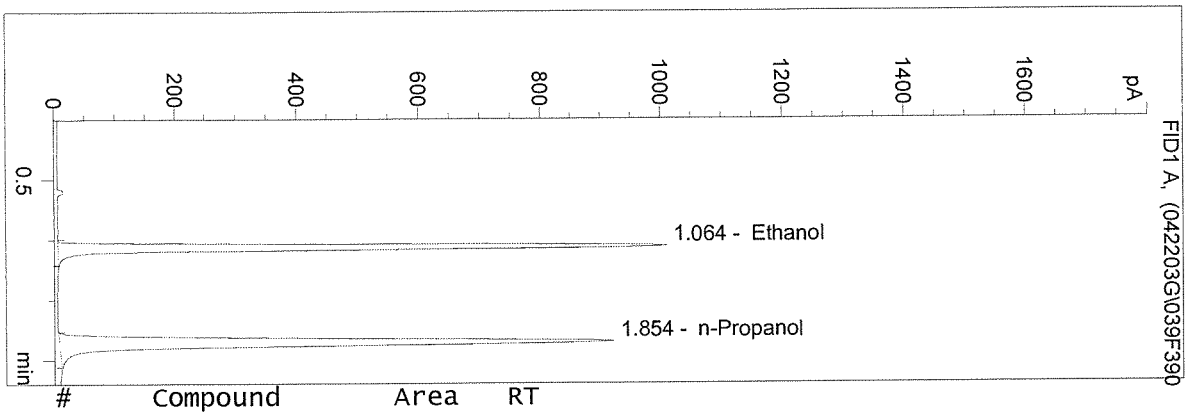


n-Propanol 1.000 g/100ml

\HPCHEM\2\METHODS\BLDALCO2.M
22/03 2:17:33 PM
strument 2
ALC1

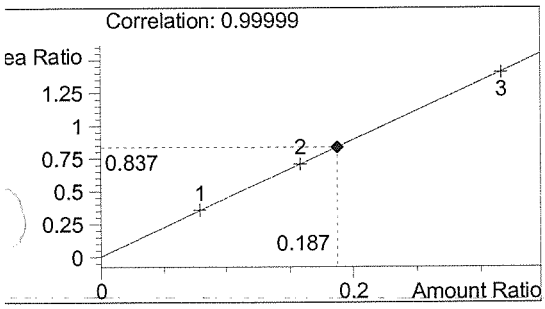
0.15 QASOL 03012
Gene Schwilke

vial # 39

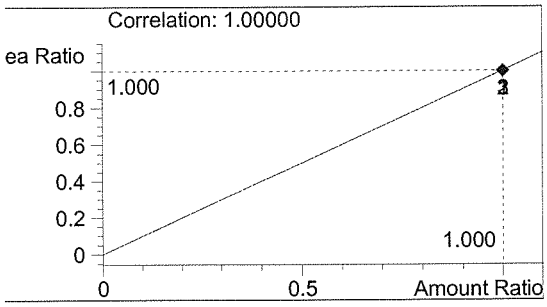


#	Compound	Area	RT
1	Ethanol	3096	1.064
2	n-Propanol	3699	1.854

Totals:



Ethanol 0.187 g/100ml

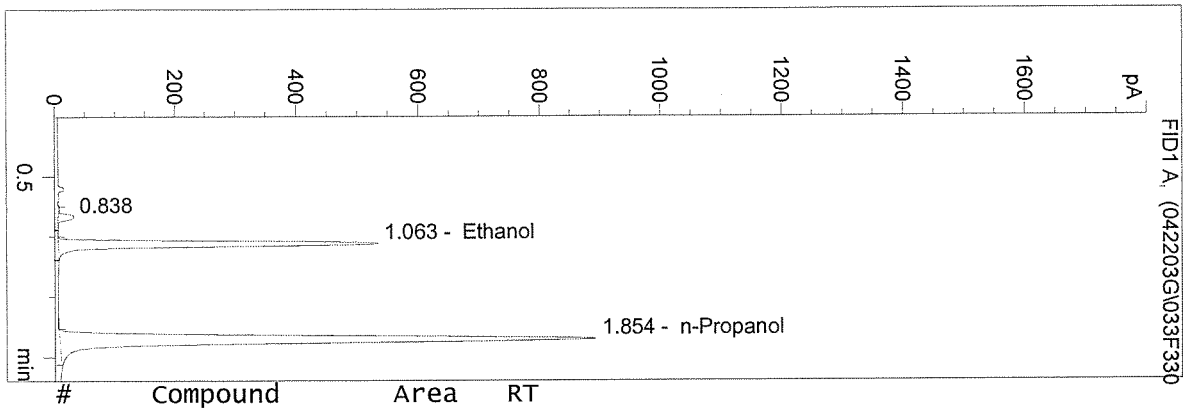


n-Propanol 1.000 g/100ml

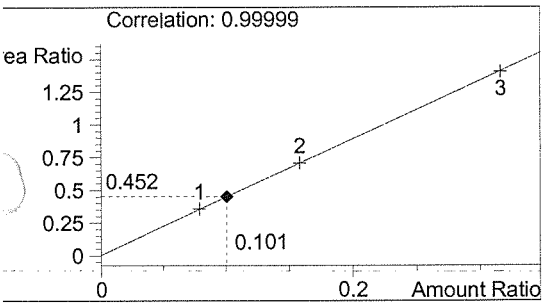
\HPCHEM\2\METHODS\BLDALCO2.M
22/03 1:59:17 PM
strument 2
ALC1

CAP 0.100
Gene Schwilke

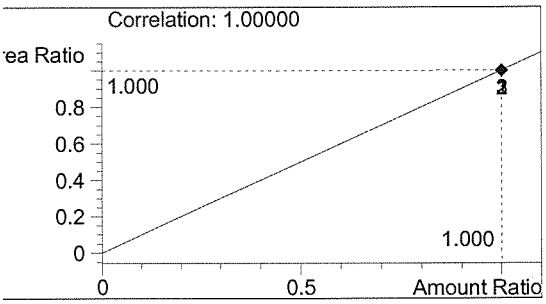
vial # 33



#	Compound	Area	RT
1		92	0.838
2	Ethanol	1616	1.063
3	n-Propanol	3577	1.854
Totals:			



Ethanol 0.101 g/100ml

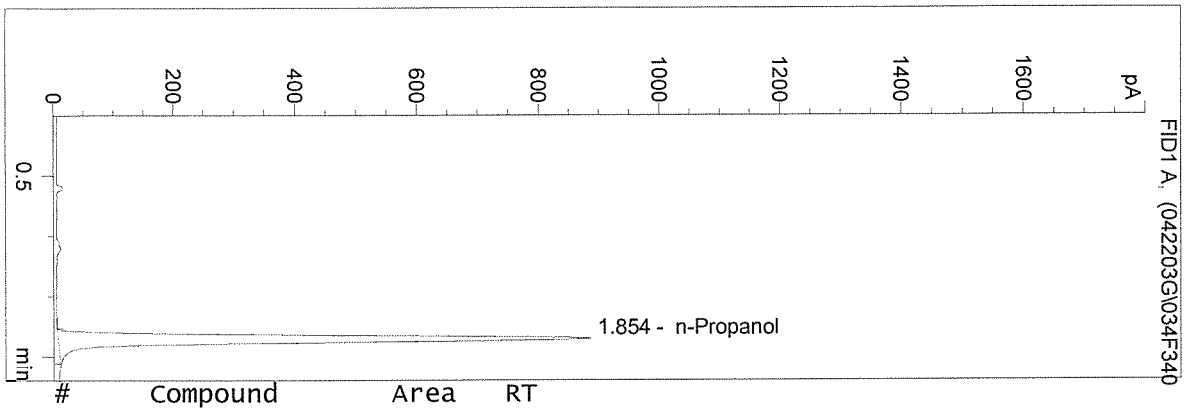


n-Propanol 1.000 g/100ml

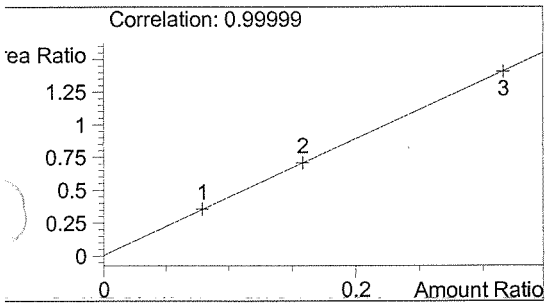
\HPCHEM\2\METHODS\BLDALCO2.M
'22/03 2:02:18 PM
ıstrument 2
ALC1

BLANK
Gene Schwilke

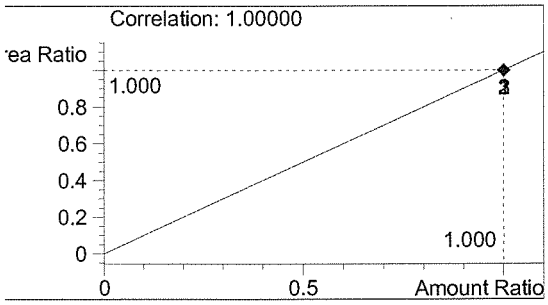
vial # 34



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3564	1.854
Totals:			



Ethanol 0.000 g/100ml



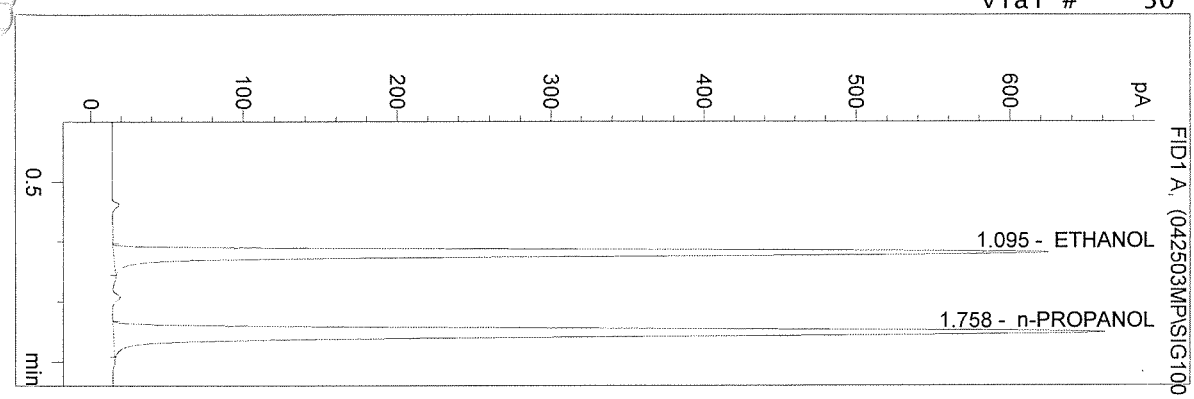
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

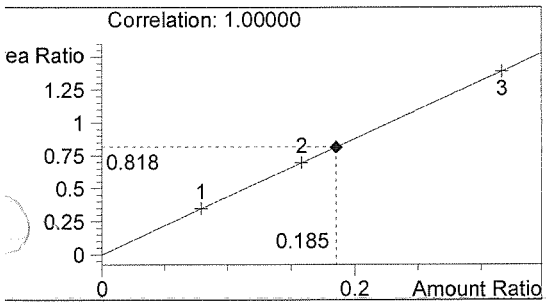
\HPCHEM\1\METHODS\BLDALCO3.M
'25/03 9:43:01 AM
ıstrument 3
ALC1

03012 0.15 QA
M PEMBERTON

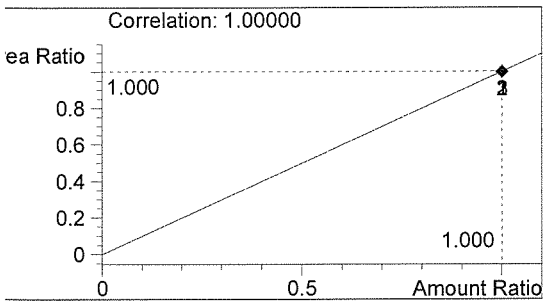
vial # 30



#	Compound	Area	RT
1	ETHANOL	2405	1.095
2	n-PROPANOL	2941	1.758
Totals:			



ETHANOL 0.185 g/100mL

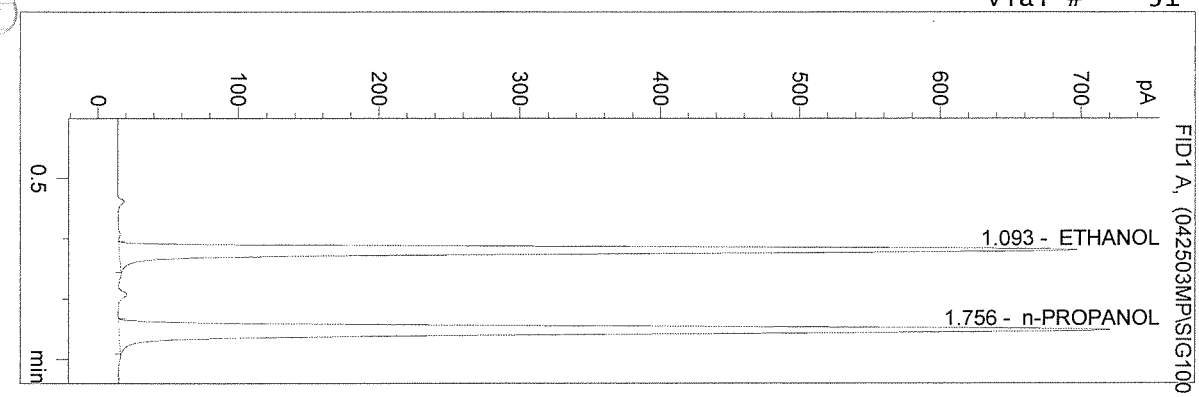


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'25/03 9:46:23 AM
ıstrument 3
ALC1

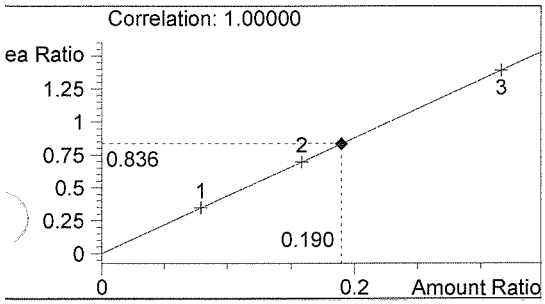
03012 0.15 QA
M PEMBERTON

vial # 31

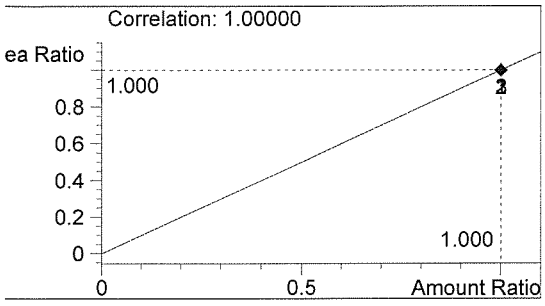


#	Compound	Area	RT
1	ETHANOL	2672	1.093
2	n-PROPANOL	3196	1.756

Totals:



ETHANOL 0.190 g/100mL

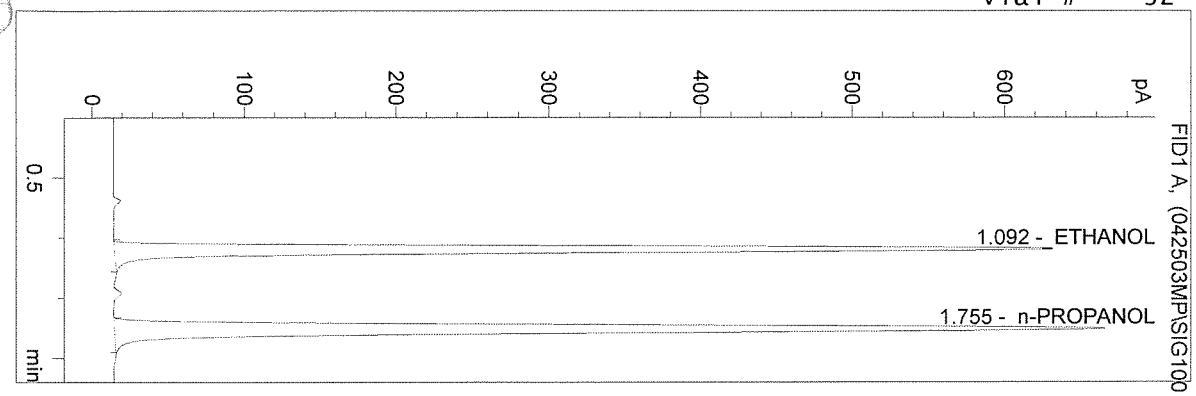


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'25/03 9:49:46 AM
ıstrument 3
ALC1

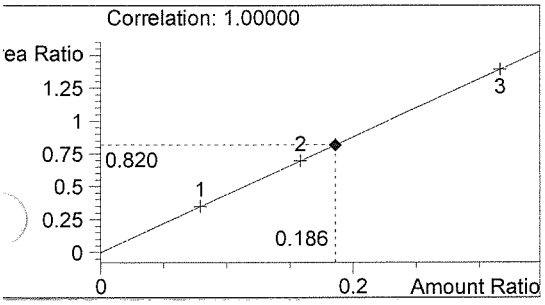
03012 0.15QA
M PEMBERTON

vial # 32

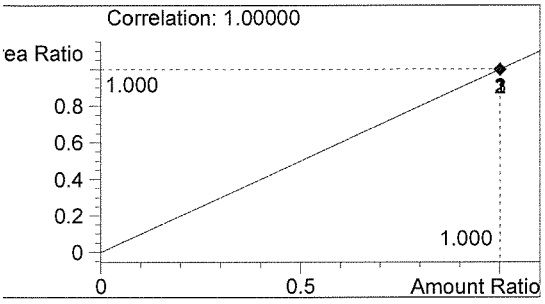


#	Compound	Area	RT
1	ETHANOL	2415	1.092
2	n-PROPANOL	2944	1.755

Totals:



ETHANOL 0.186 g/100mL

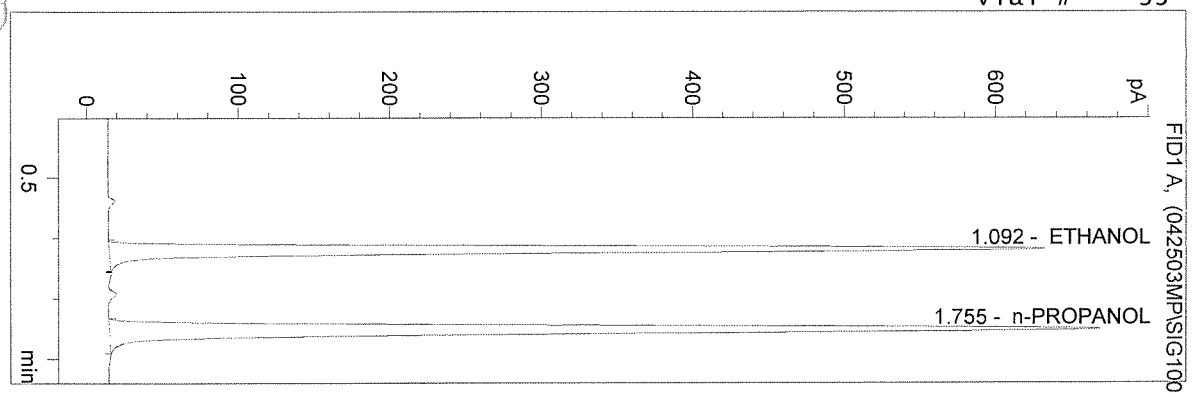


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'25/03 9:53:09 AM
ıstrument 3
ALC1

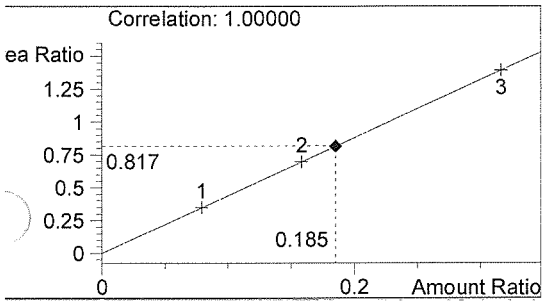
03012 0.15 QA
M PEMBERTON

vial # 33

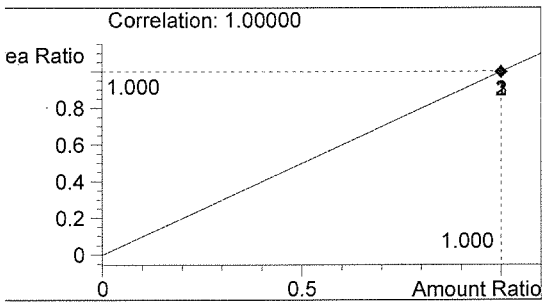


#	Compound	Area	RT
1	ETHANOL	2437	1.092
2	n-PROPANOL	2984	1.755

Totals:



ETHANOL 0.185 g/100mL

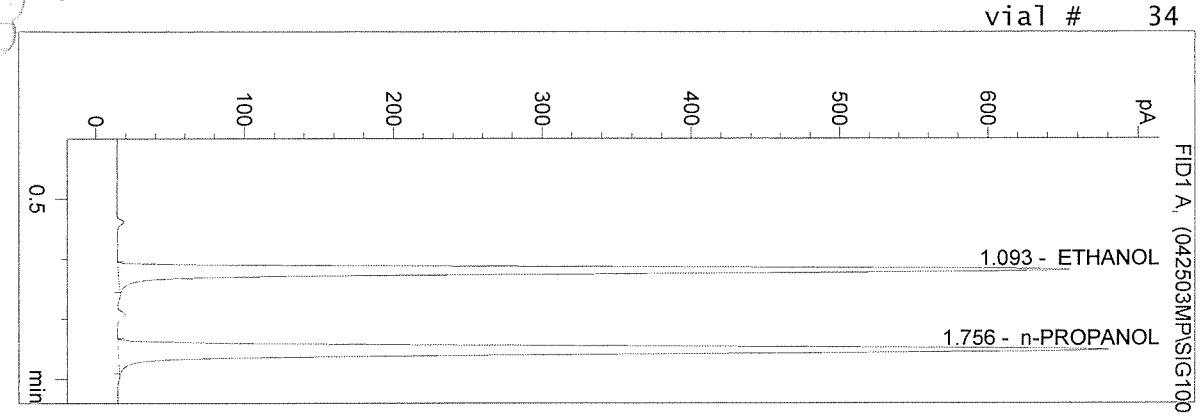


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'25/03 9:56:32 AM
ıstrument 3
ALC1

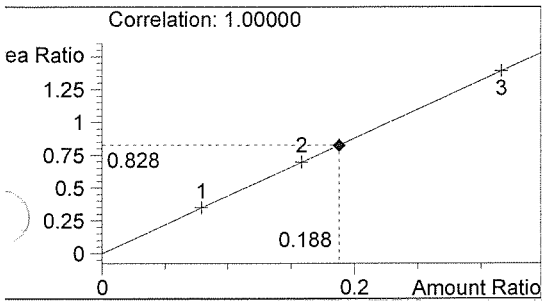
03012 0.15 QA
M PEMBERTON

vial # 34

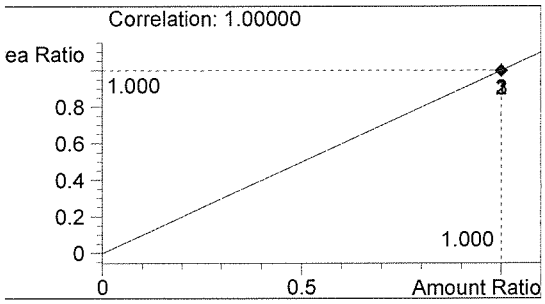


#	Compound	Area	RT
1	ETHANOL	2494	1.093
2	n-PROPANOL	3010	1.756

Totals:



ETHANOL 0.188 g/100mL

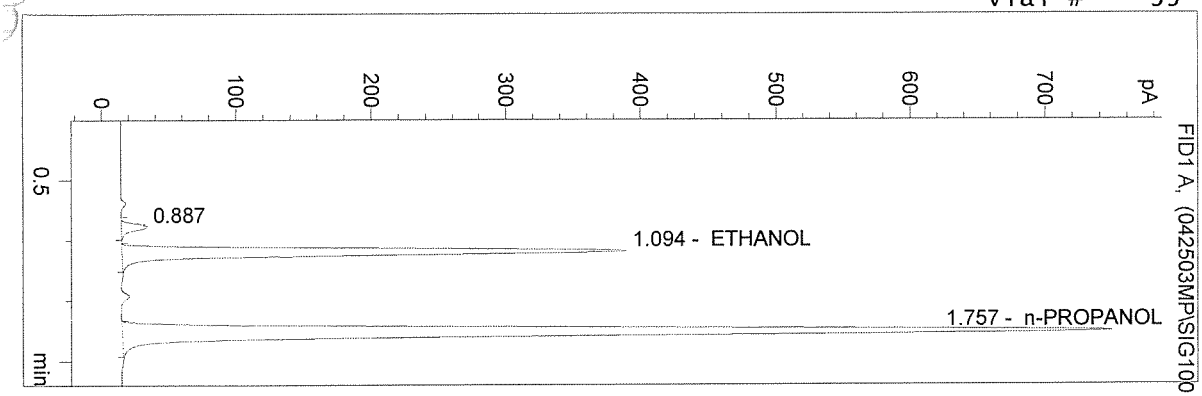


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
25/03 9:59:55 AM
strument 3
ALC1

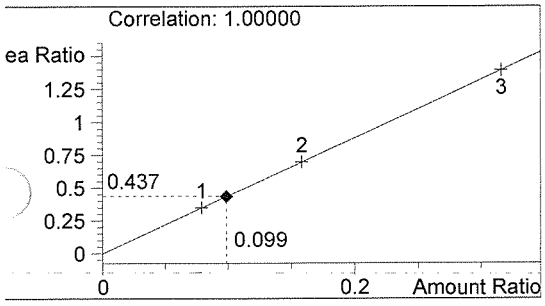
0.10 CONTROL
M PEMBERTON

vial # 35

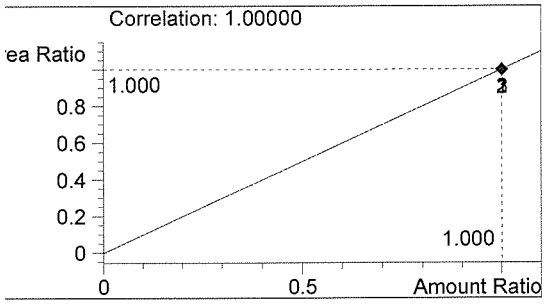


#	Compound	Area	RT
1		77	0.887
2	ETHANOL	1441	1.094
3	n-PROPANOL	3298	1.757

Totals:



ETHANOL 0.099 g/100mL

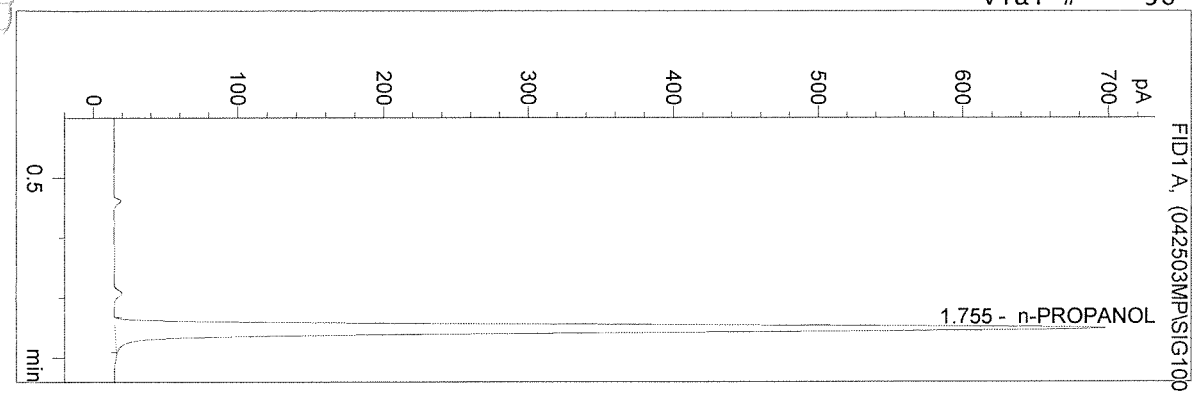


n-PROPANOL 1.000 g/100mL

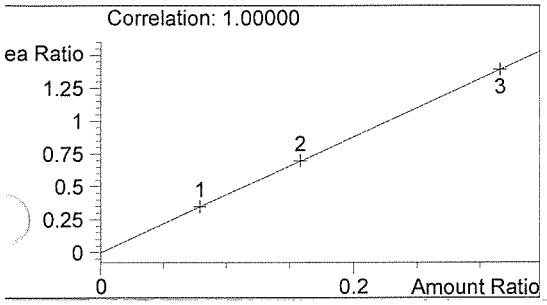
\HPCHEM\1\METHODS\BLDALCO3.M
'25/03 10:03:17 AM
ıstrument 3
ALC1

BLK
M PEMBERTON

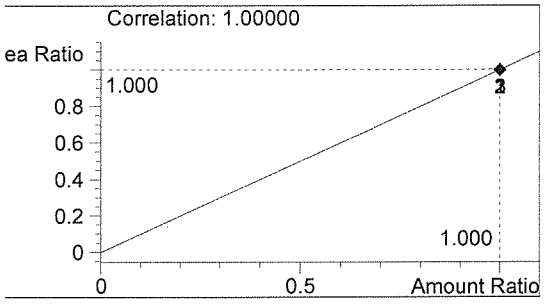
vial # 36



#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3099	1.755
Totals:			



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

\HPCHEM\1\METHODS\BLDALCO3.M
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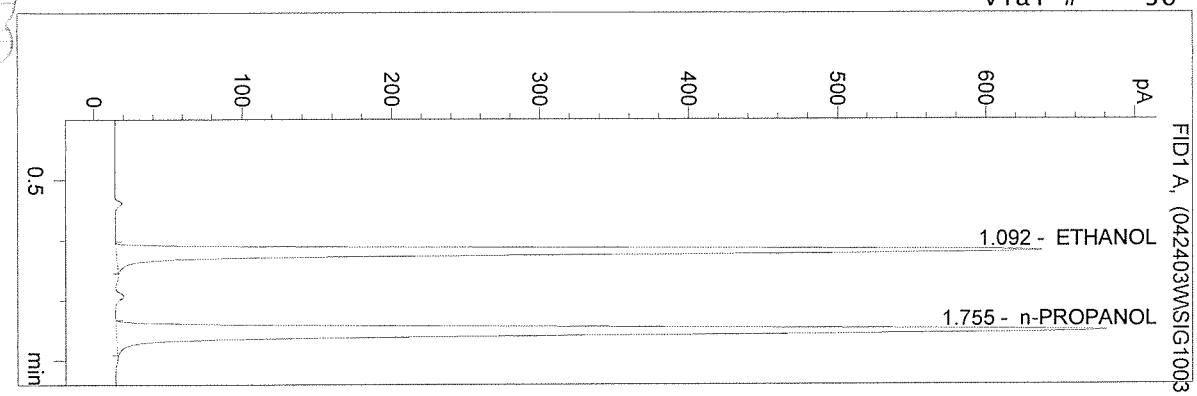
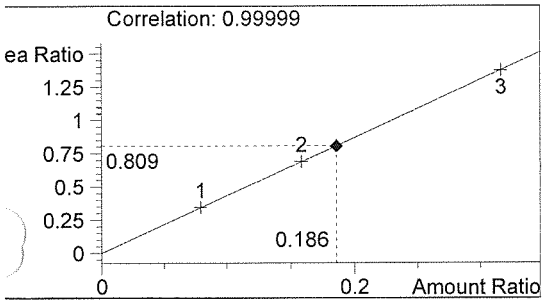
strument 3
-ALC1

QA 03012
WP MARSHALL

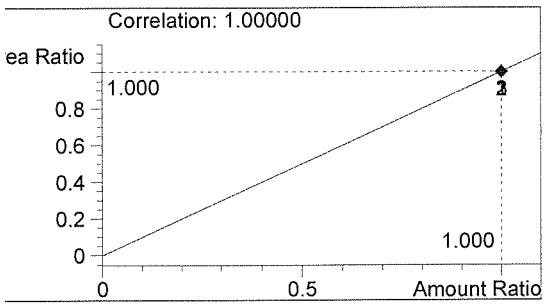
vial # 36



#	Compound	Area	RT
1	ETHANOL	2434	1.092
2	n-PROPANOL	3008	1.755
Totals:			



ETHANOL 0.186 g/100mL



n-PROPANOL 1.000 g/100mL

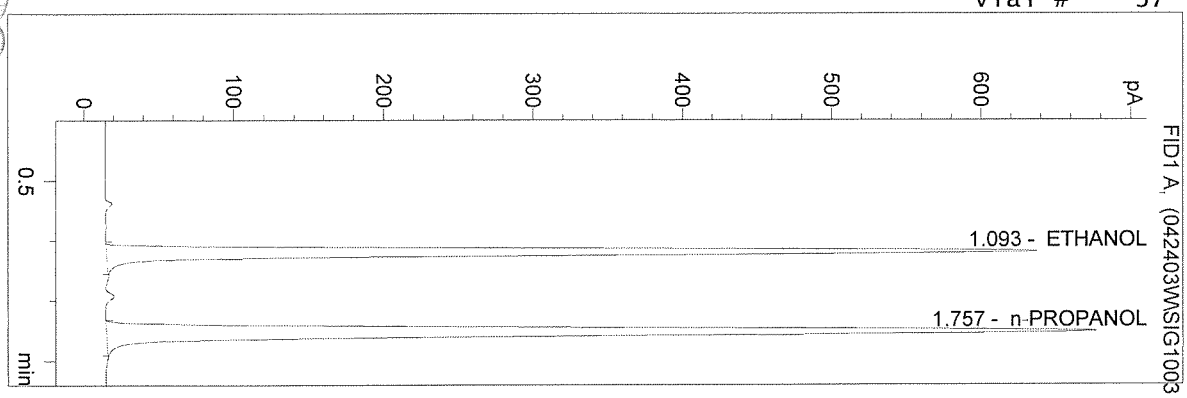
STDS C
SIM 03008

WASHINGTON STATE TOXICOLOGY LABORATORY

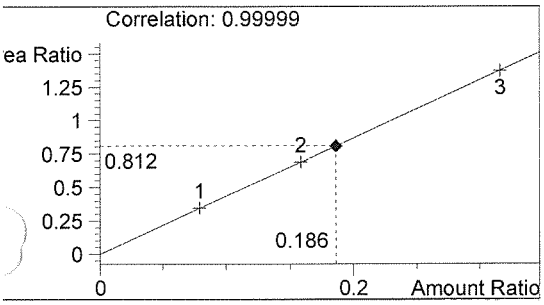
\HPCHEM\1\METHODS\BLDALCO3.M
'24/03 11:55:35 AM
ıstrument 3
'-ALC1

QA 03012
WP MARSHALL

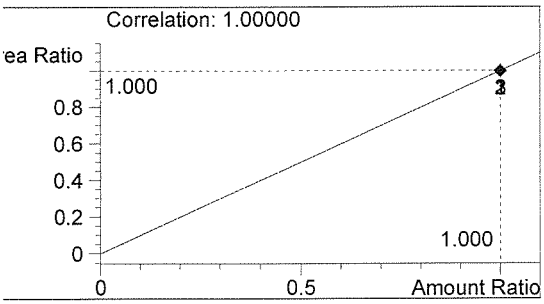
vial # 37



#	Compound	Area	RT
1	ETHANOL	2431	1.093
2	n-PROPANOL	2994	1.757
Totals:			



ETHANOL 0.186 g/100mL



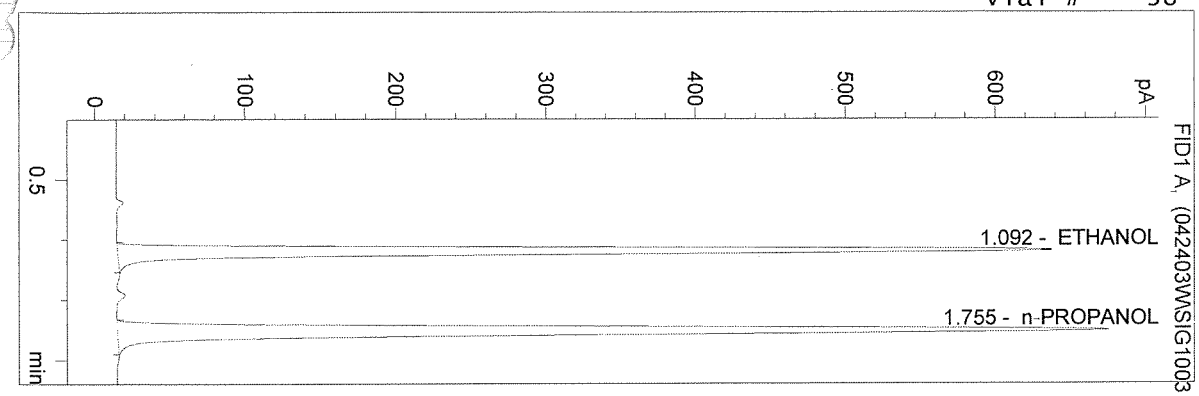
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

\HPCHEM\1\METHODS\BLDALCO3.M
'24/03 11:58:58 AM
strument 3
-ALC1

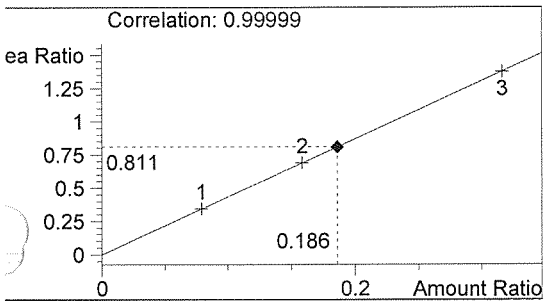
QA 03012
WP MARSHALL

vial # 38

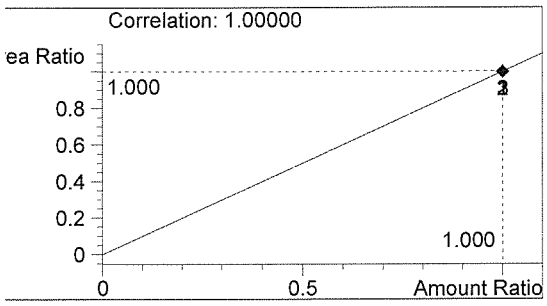


#	Compound	Area	RT
1	ETHANOL	2412	1.092
2	n-PROPANOL	2975	1.755

Totals:



ETHANOL 0.186 g/100mL

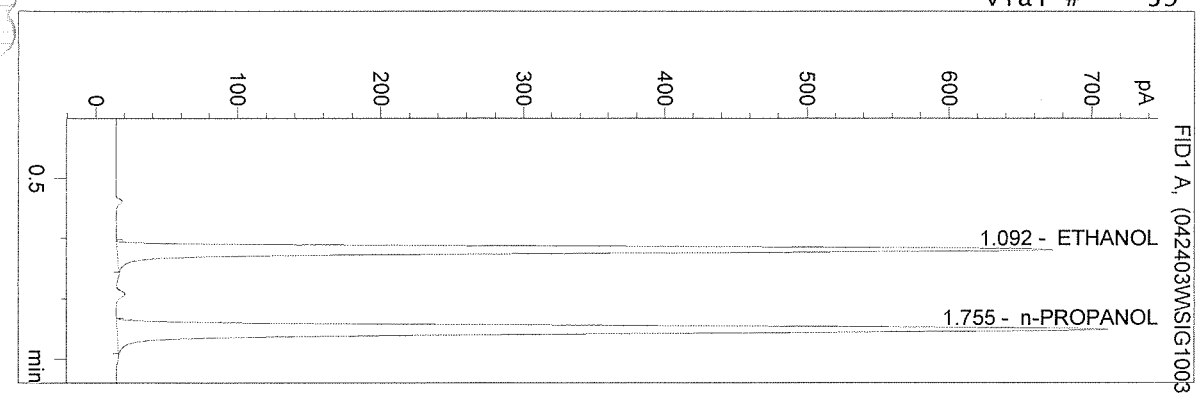


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'24/03 12:02:21 PM
ıstrument 3
ALC1

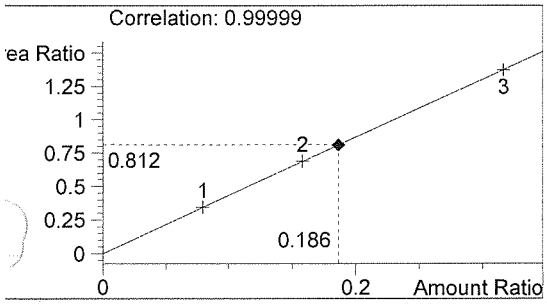
QA 03012
WP MARSHALL

vial # 39

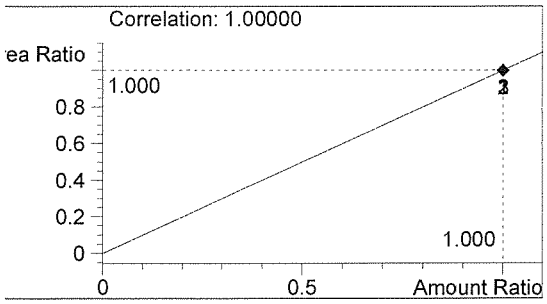


#	Compound	Area	RT
1	ETHANOL	2548	1.092
2	n-PROPANOL	3136	1.755

Totals:



ETHANOL 0.186 g/100mL

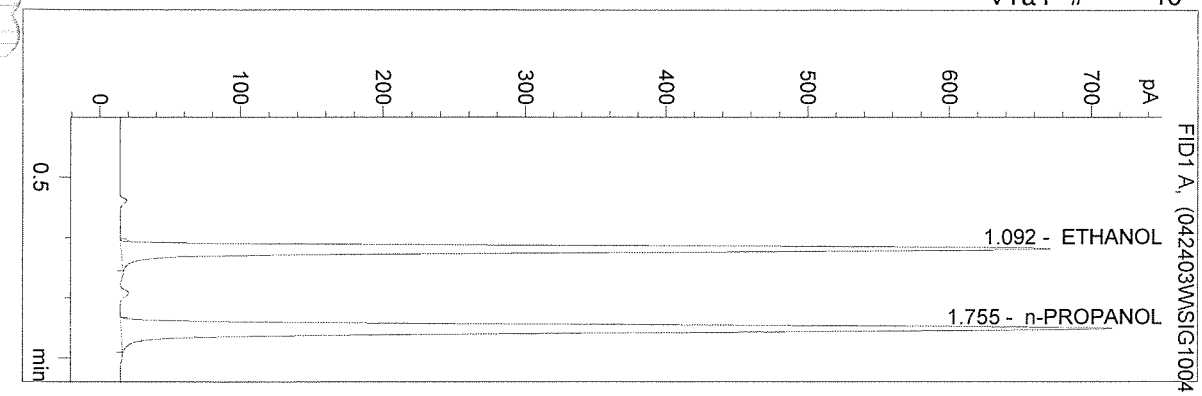


n-PROPANOL 1.000 g/100mL

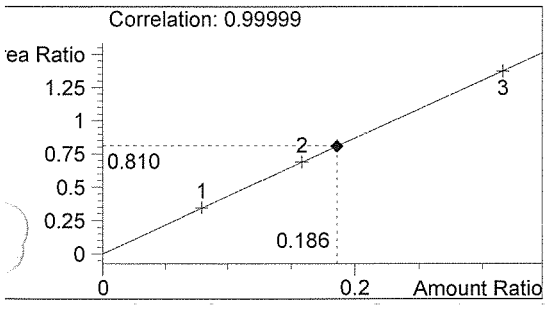
:\HPCHEM\1\METHODS\BLDALCO3.M
/24/03 12:05:43 PM
ıstrument 3
-ALC1

QA 03012
WP MARSHALL

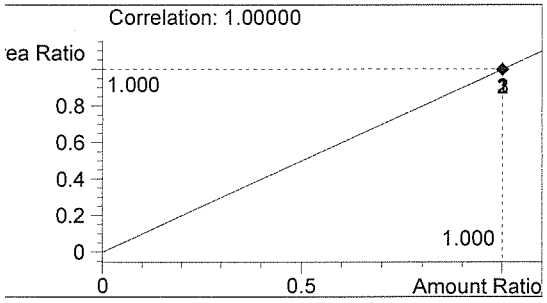
vial # 40



#	Compound	Area	RT
1	ETHANOL	2564	1.092
2	n-PROPANOL	3166	1.755
Totals:			



ETHANOL 0.186 g/100mL

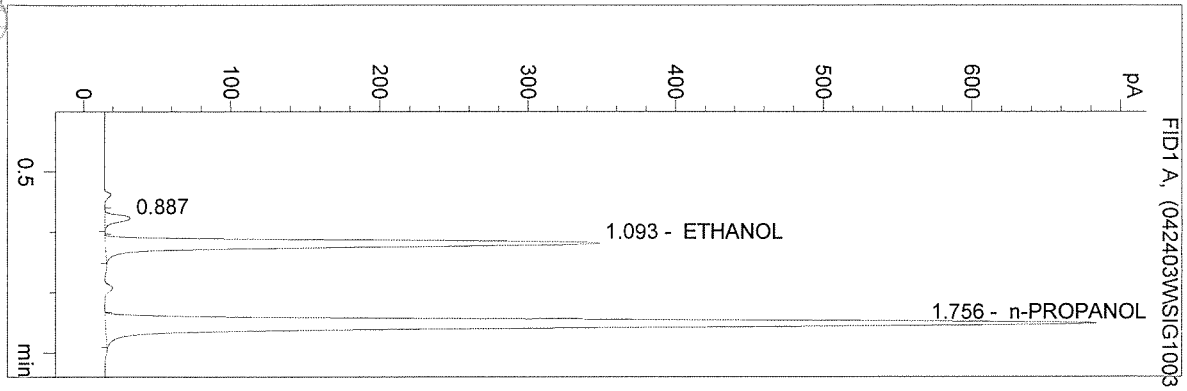


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'24/03 11:45:27 AM
ıstrument 3
ALC1

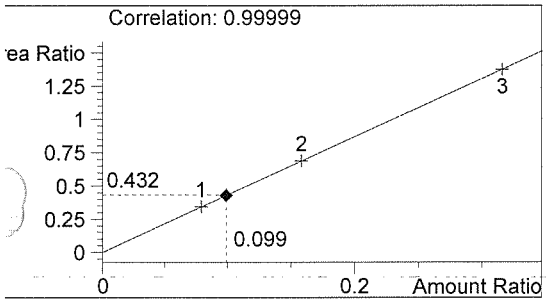
0.100 CONTROL
WP MARSHALL

vial # 34

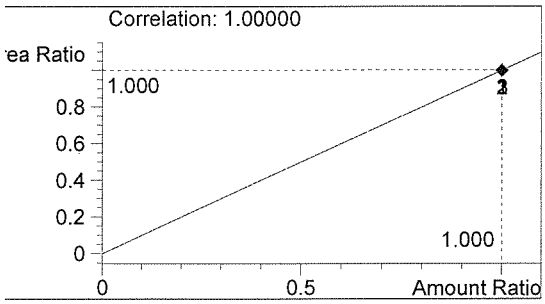


#	Compound	Area	RT
1		69	0.887
2	ETHANOL	1313	1.093
3	n-PROPANOL	3040	1.756

Totals:



ETHANOL 0.099 g/100mL



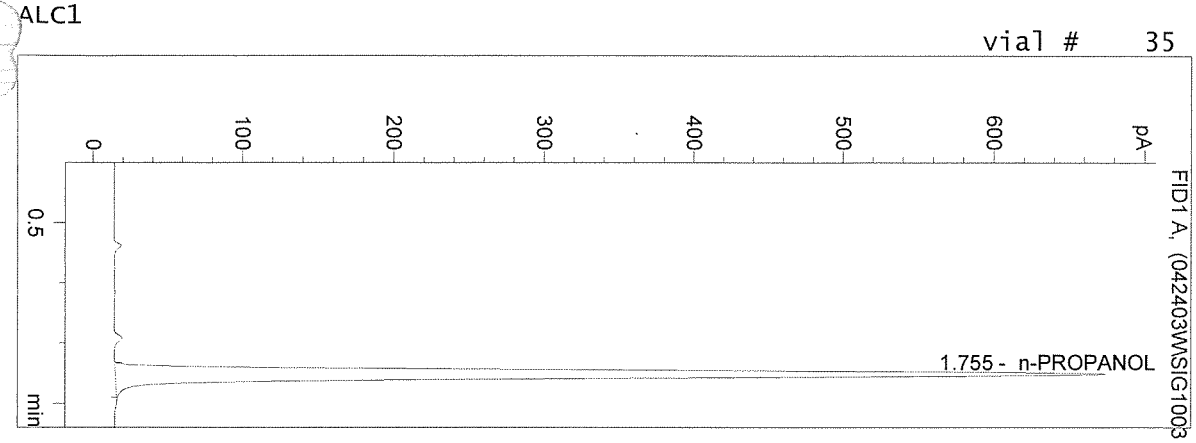
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

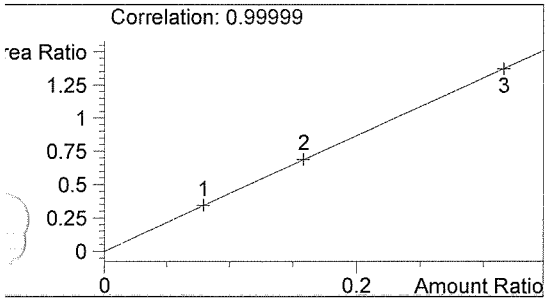
:\HPCHEM\1\METHODS\BLDALCO3.M
/24/03 11:48:49 AM
nstrument 3
ALC1

BLANK
WP MARSHALL

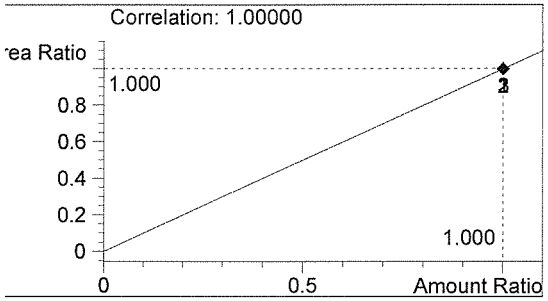
vial # 35



#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3008	1.755
Totals:			



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL