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

Batch number **02021** Date: 7/1/2002

Preparation: 11.1 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	0.049	0.050	0.050									
2	0.048	0.050	0.049									
3	0.050	0.051	0.049									
4	0.049	0.051	0.050									
5	0.049	0.050	0.049									
Ctrl	0.098	0.100	0.099									

External Control:

Lot #: A021986 Exp date: 01/2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.0496 g/100 mL

SD: 0.00083

Range (3xSD): 0.0471 to 0.0521

Precision CV (%): 1.6695 %

Equivalent vapor concent.: 0.0403 g/210L

Analyst	Name	Signature	Date
1	Melissa Pemberton		07/01/02
2	Eugene Schwilke		07/01/02
3	Naziha Nuwayhid, PhD		07/02/02
4			
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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 simulator solution, Lot Number 02022 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1265 grams per 100ml.

Dated: 7/3/02
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/nf
MPQA

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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 five years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02022 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1265 grams per 100ml.

Dated: 7/3/02
Seattle, WA

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

GS/nf
GSQA

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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, Naziha Nuwayhid, 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 and Masters degrees in Biology, Ph.D. degree in Basic Medical Science, ten years experience in clinical laboratory sciences, one year in clinical toxicology and two years in forensic toxicology. I am also board certified by the American Board of Clinical Chemistry.

The quality assurance solution, Lot Number 01022 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.1265 grams per 100mL.

Dated: 7/3/02
Seattle, WA

Naziha Nuwayhid, Ph.D.
Forensic Toxicologist

NN/nf
NNQA

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Preparation and certification of **0.10** g/210L **Quality Assurance solution**

Batch number **02022** Date: 7/1/2002

Preparation: 28.9 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	0.127	0.126	0.125									
2	0.128	0.126	0.126									
3	0.126	0.126	0.128									
4	0.127	0.126	0.128									
5	0.127	0.126	0.126									
Ctrl	0.098	0.100	0.101									

External Control:

Lot #: A021986 Exp date: 01/2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1265 g/100 mL

SD: 0.00092

Range (3xSD): 0.1238 to 0.1293

Precision CV (%): 0.7235 %

Equivalent vapor concent.: 0.1029 g/210L

Analyst	Name	Signature	Date
1	Melissa Pemberton		07/01/02
2	Eugene Schwilke		07/01/02
3	Naziha Nuwayhid, PhD		07/02/02
4			
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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 simulator solution, Lot Number 02021 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0496 grams per 100ml.

Dated: 7/3/02
Seattle, WA

Melissa L. Pemberton
Melissa L. Pemberton
Forensic Toxicologist

MP/nf
MPQA

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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 five years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02021 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0496 grams per 100ml.

Dated: 7/3/02
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, Naziha Nuwayhid, 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 and Masters degrees in Biology, Ph.D. degree in Basic Medical Science, ten years experience in clinical laboratory sciences, one year in clinical toxicology and two years in forensic toxicology. I am also board certified by the American Board of Clinical Chemistry.

The quality assurance solution, Lot Number 01021 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.0496 grams per 100mL.

Dated: 7/3/02
Seattle, WA

Naziha Nuwayhid, Ph.D.
Forensic Toxicologist

NN/nf
NNQA

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Preparation and certification of **0.15** g/210L **Quality Assurance solution**

Batch number **02023** Date: 7/1/2002

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	0.183	0.187	0.182									
2	0.186	0.189	0.182									
3	0.186	0.188	0.185									
4	0.184	0.189	0.183									
5	0.187	0.189	0.183									
Ctrl	0.099	0.102	0.101									

External Control:

Lot #: A021986 Exp date: 1/2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1855 g/100 mL

SD: 0.00259

Range (3xSD): 0.1778 to 0.1933

Precision CV (%): 1.3946 %

Equivalent vapor concent.: 0.1508 g/210L

Analyst	Name	Signature	Date
1	Melissa Pemberton		07/01/02
2	Eugene Schwilke		07/01/02
3	Naziha Nuwayhid, PhD		07/01/02
4			
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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 simulator solution, Lot Number 02023 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1855 grams per 100ml.

Dated: 7/3/02
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/nf
MPQA

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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 five years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02023 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1855 grams per 100ml.

Dated: 7/3/02
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, Naziha Nuwayhid, 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 and Masters degrees in Biology, Ph.D. degree in Basic Medical Science, ten years experience in clinical laboratory sciences, one year in clinical toxicology and two years in forensic toxicology. I am also board certified by the American Board of Clinical Chemistry.

The quality assurance solution, Lot Number 01023 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.1855 grams per 100mL.

Dated: 7/3/02
Seattle, WA

Naziha Nuwayhid, Ph.D.
Forensic Toxicologist

NN/nf
NNQA

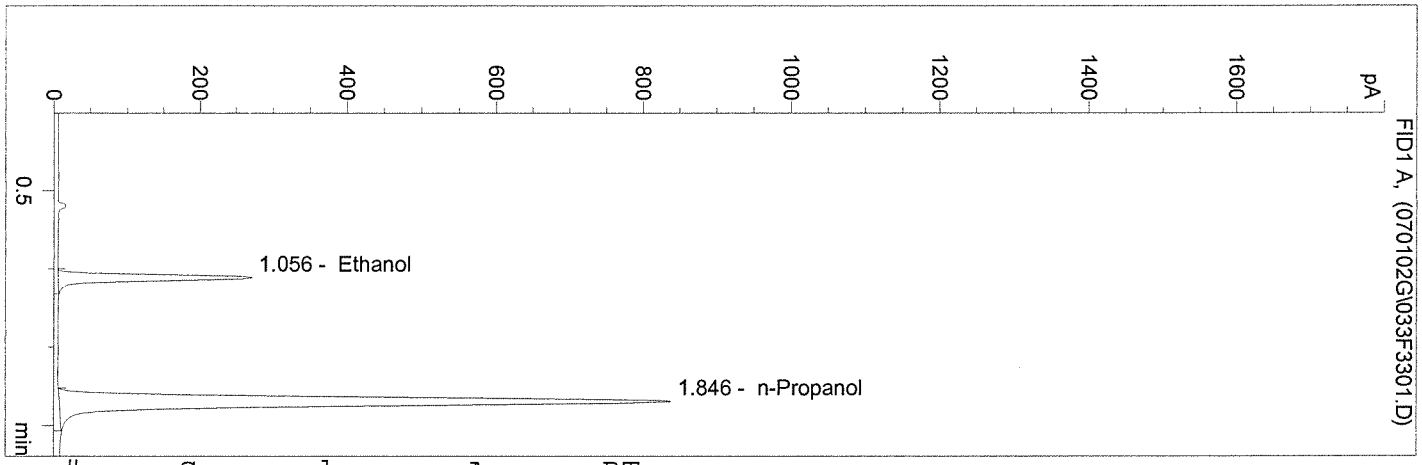
WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
7/1/02 1:53:41 PM
Instrument 2
-ALC1

cal 023764

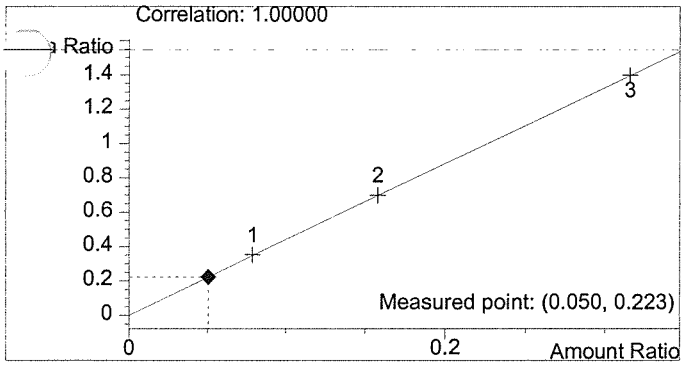
0.04 QA 02021
GENE SCHWILKE

vial # 33

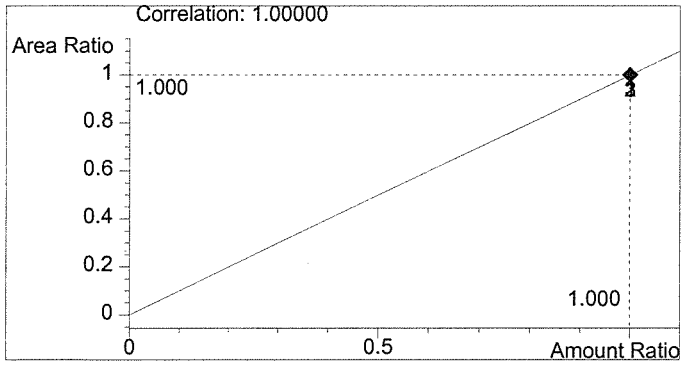


#	Compound	Area	RT
1	Ethanol	715	1.056
2	n-Propanol	3200	1.846

Totals:



Ethanol 0.050 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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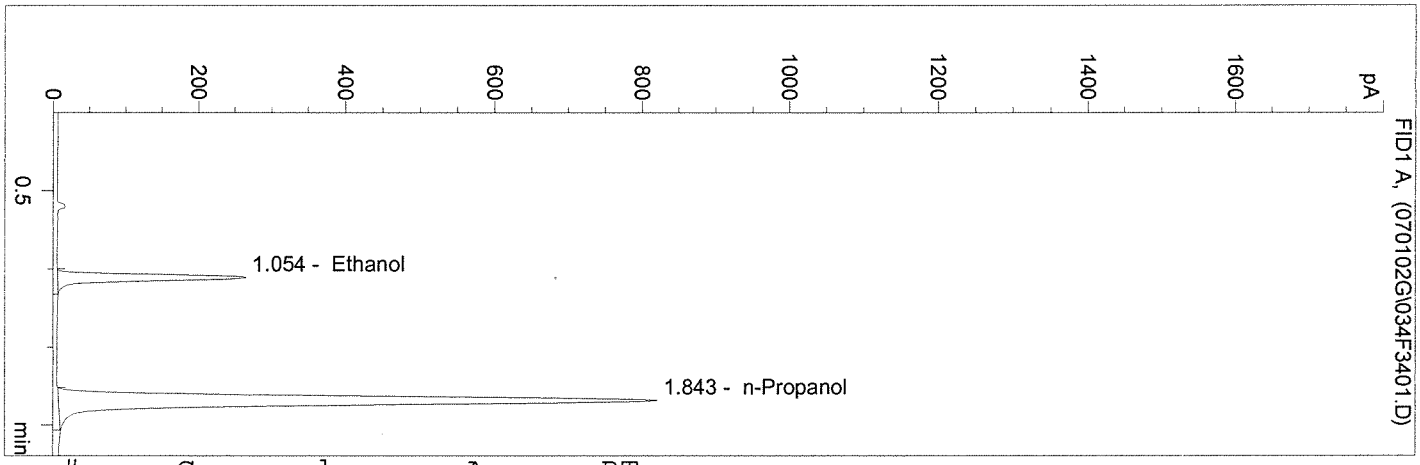
Instrument 2
-ALC1

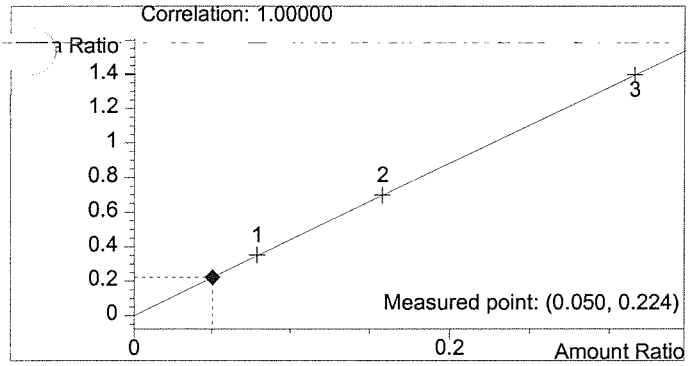
0.04 QA 02021
GENE SCHWILKE

vial # 34

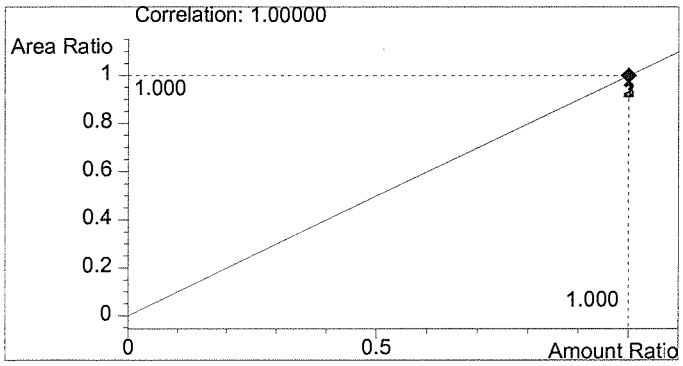


#	Compound	Area	RT
1	Ethanol	704	1.054
2	n-Propanol	3148	1.843

Totals:



Ethanol 0.050 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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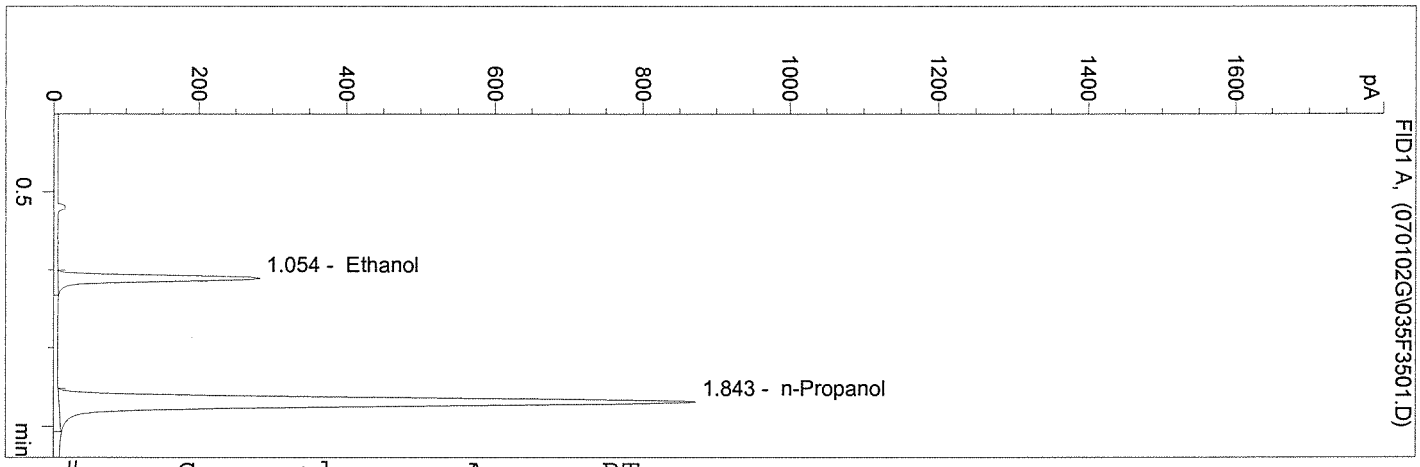
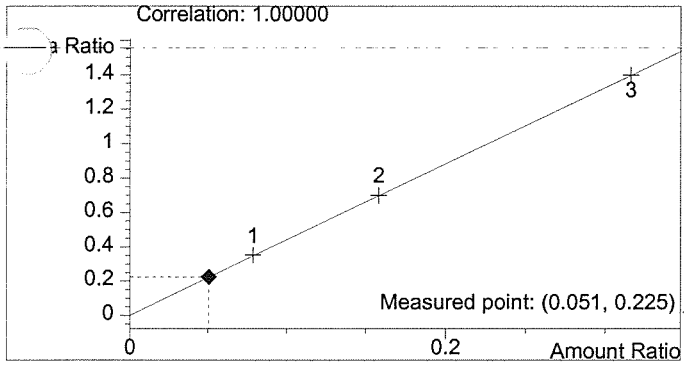
Instrument 2
-ALC1

0.04 QA 02021
GENE SCHWILKE

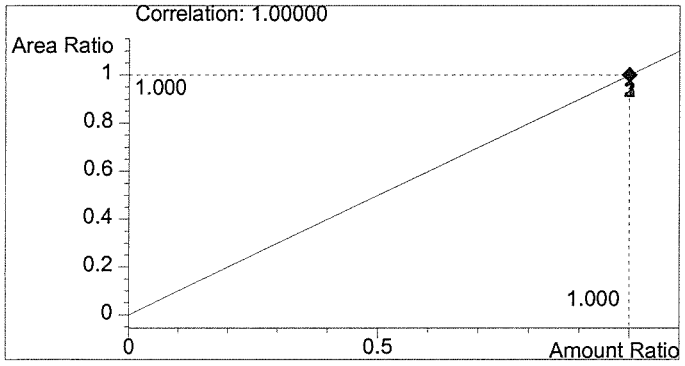
vial # 35



#	Compound	Area	RT
1	Ethanol	750	1.054
2	n-Propanol	3336	1.843
Totals:			



Ethanol 0.051 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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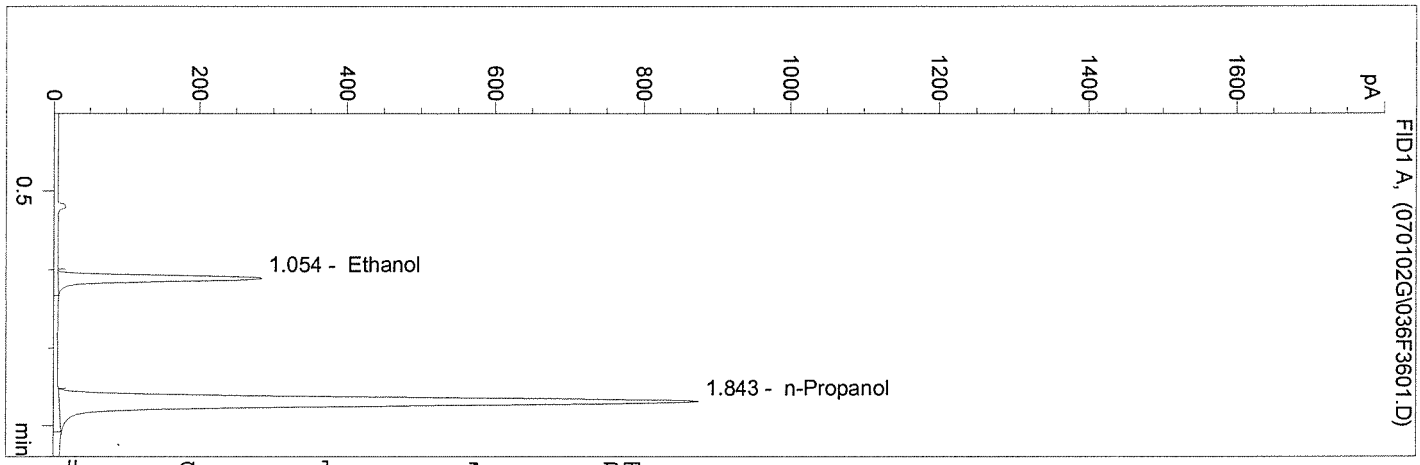
Instrument 2
-ALC1

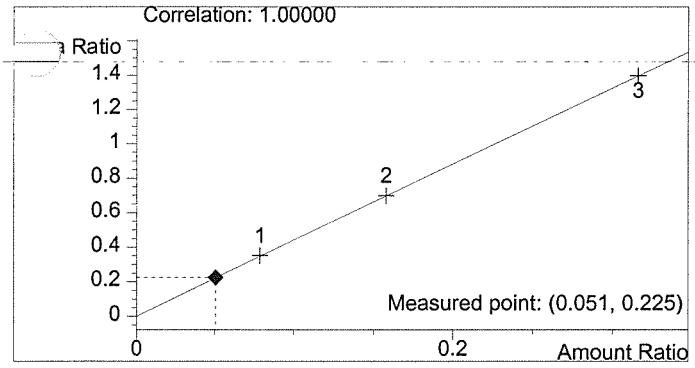
0.04 QA 02021
GENE SCHWILKE

vial # 36

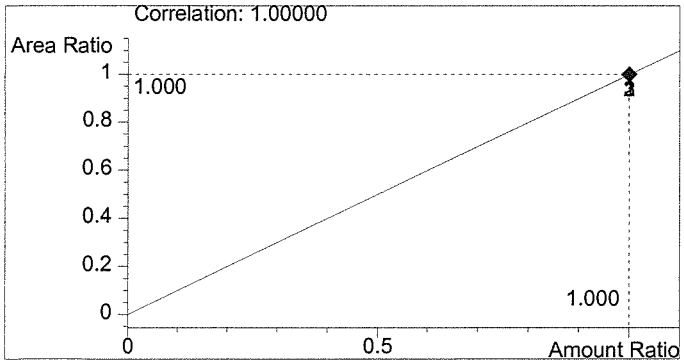


#	Compound	Area	RT
1	Ethanol	754	1.054
2	n-Propanol	3358	1.843

Totals:



Ethanol 0.051 g/100ml



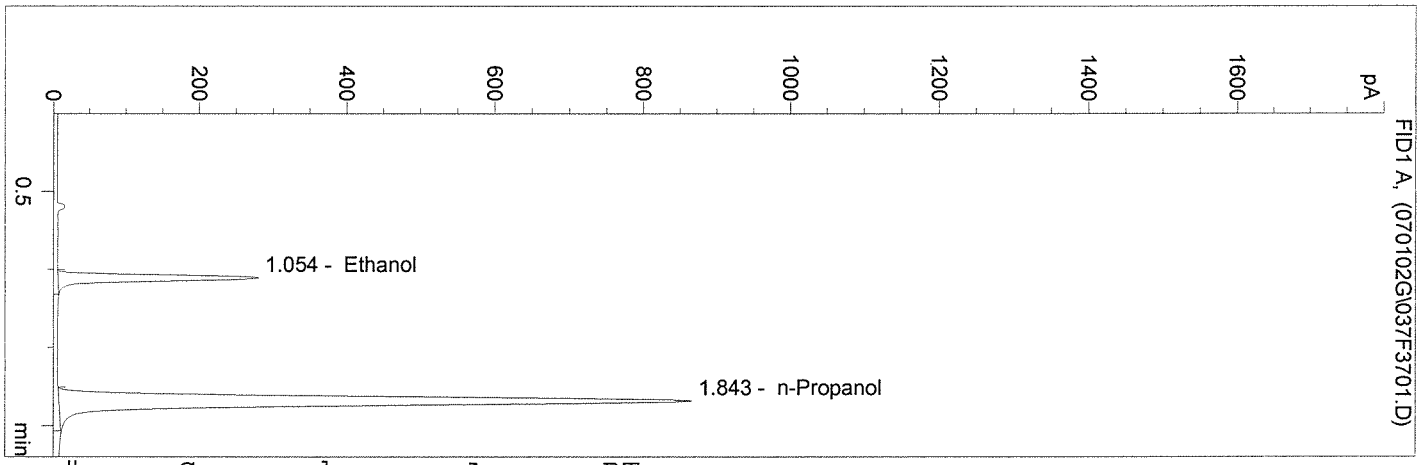
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
7/1/02 2:07:23 PM
Instrument 2
-ALC1

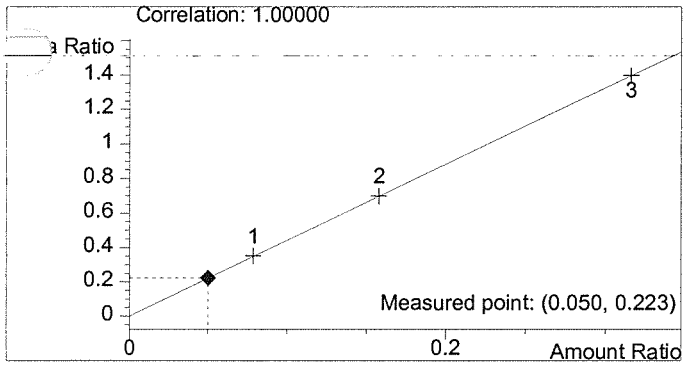
0.04 QA 02021
GENE SCHWILKE

vial # 37

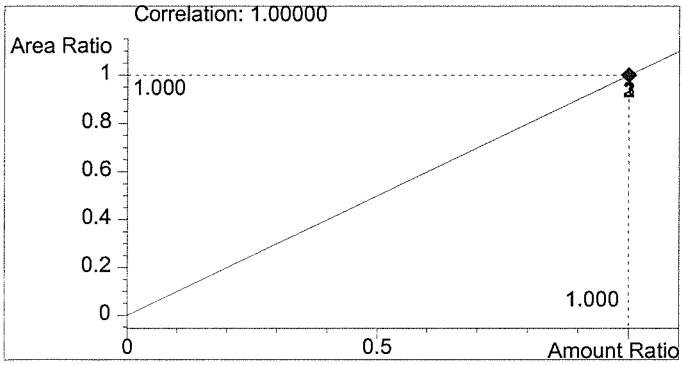


#	Compound	Area	RT
1	Ethanol	741	1.054
2	n-Propanol	3322	1.843

Totals:



Ethanol 0.050 g/100ml



n-Propanol 1.000 g/100ml

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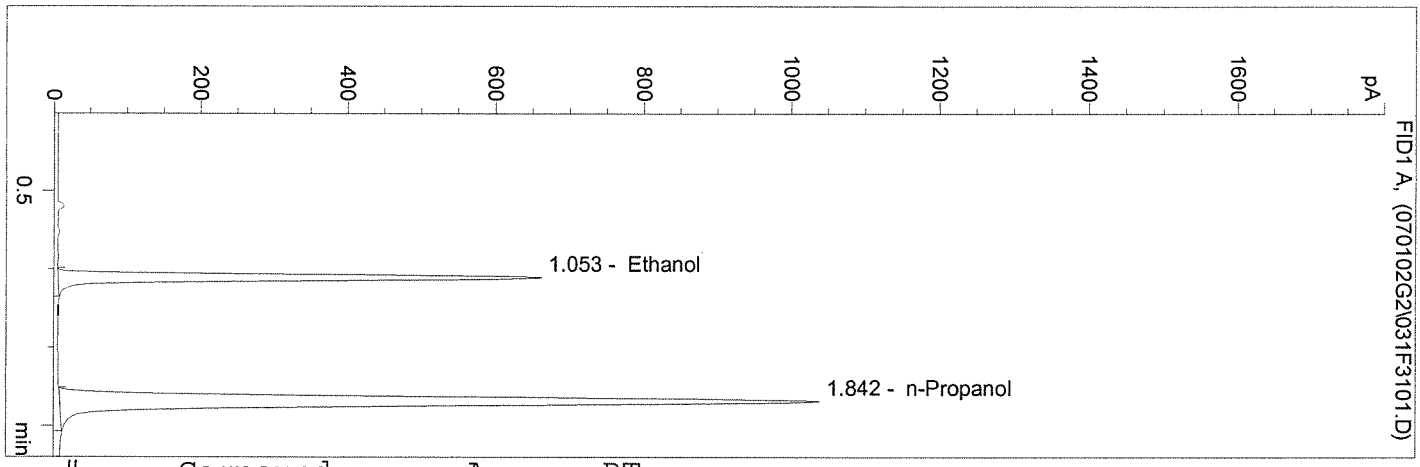
7/1/02 2:24:09 PM
Instrument 2
-ALC1

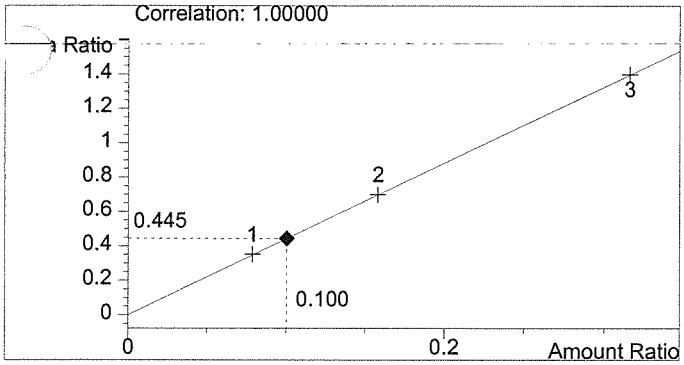
CAP 0.100
GENE SCHWILKE

vial # 31

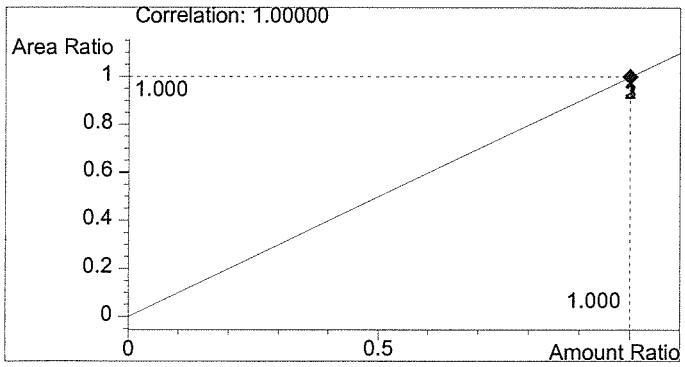


#	Compound	Area	RT
1	Ethanol	1770	1.053
2	n-Propanol	3978	1.842

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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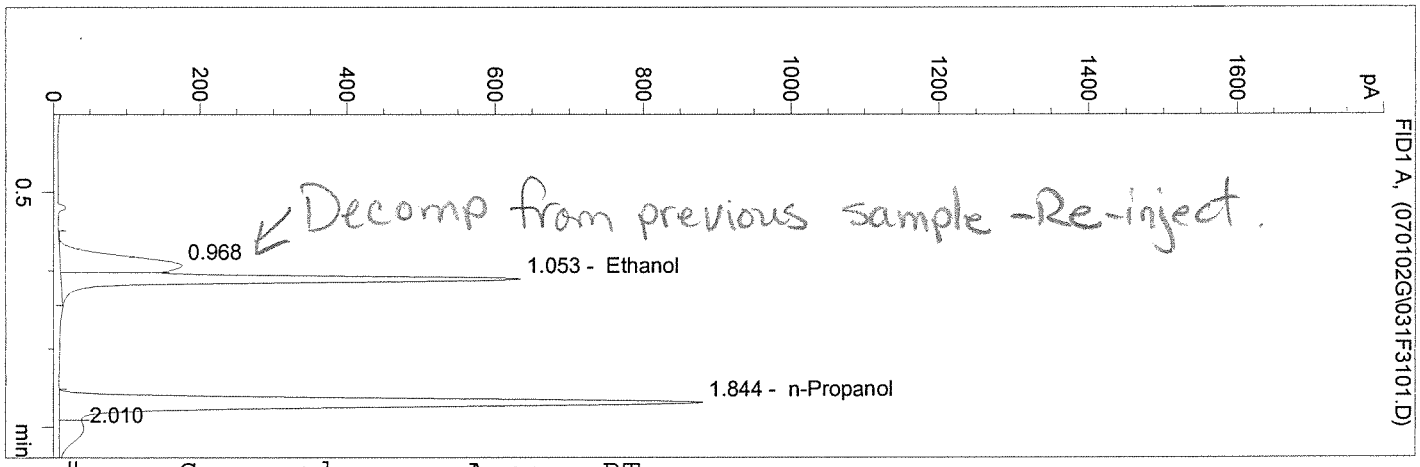
7/1/02 1:47:27 PM
Instrument 2
-ALC1

CAP 0.100
GENE SCHWILKE

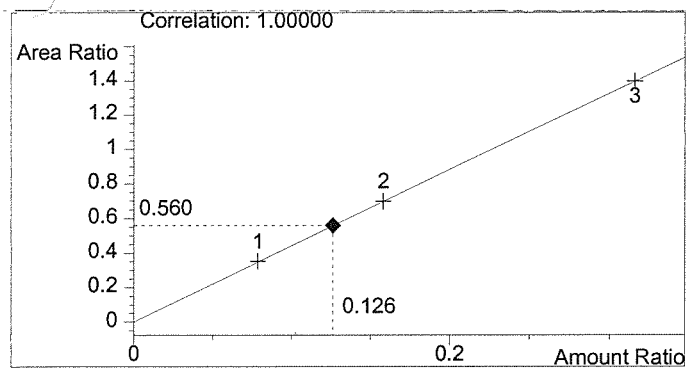
vial # 31



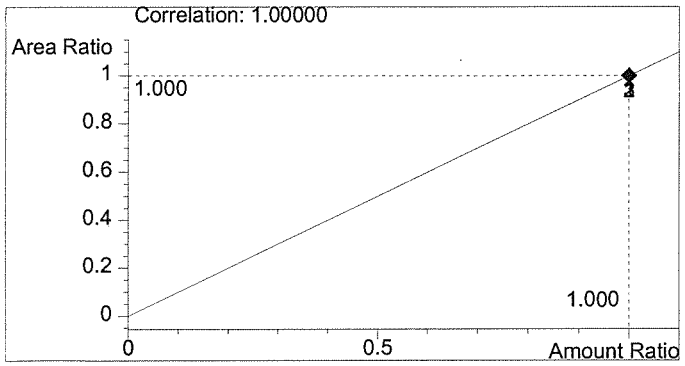
Decomp from previous sample -Re-inject.

#	Compound	Area	RT
1		1095	0.968
2	Ethanol	1908	1.053
3	n-Propanol	3410	1.844
4		313	2.010

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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7/1/02 1:50:29 PM
Instrument 2
-ALC1

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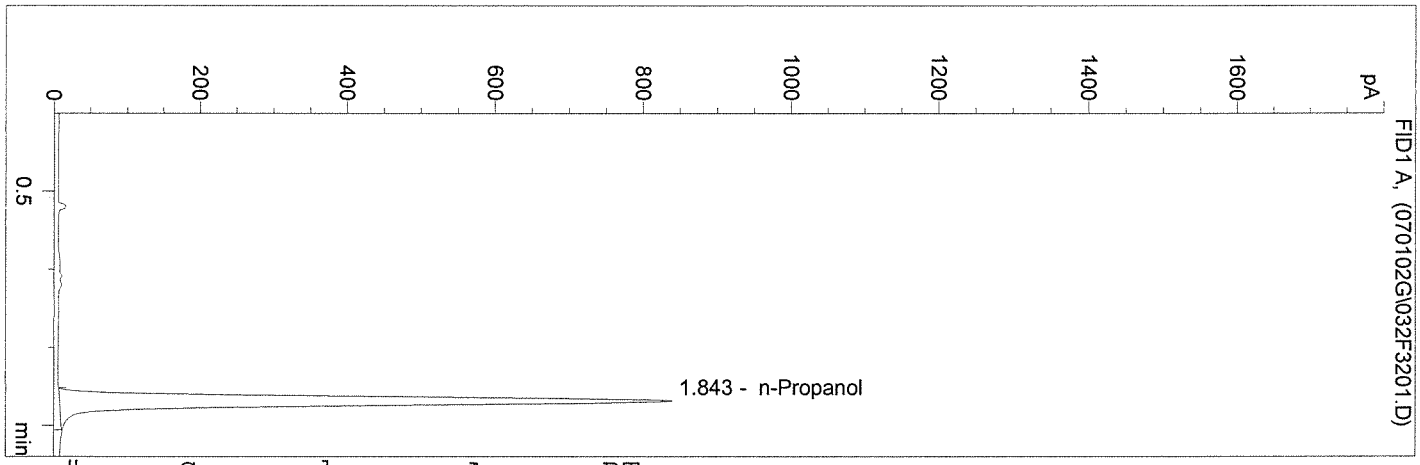
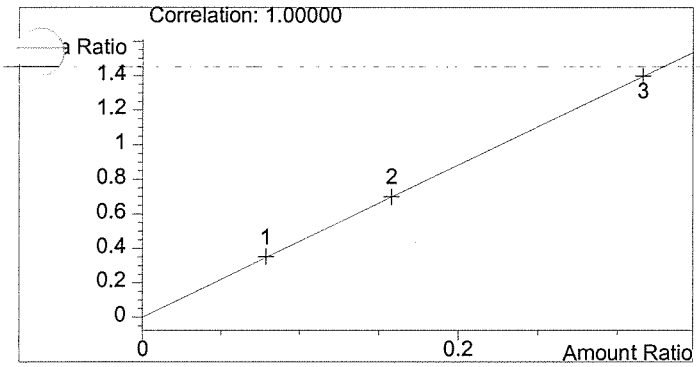
GENE SCHWILKE

vial # 32

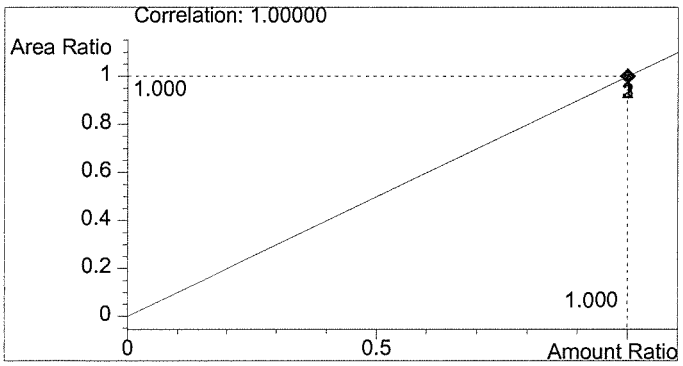


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3224	1.843

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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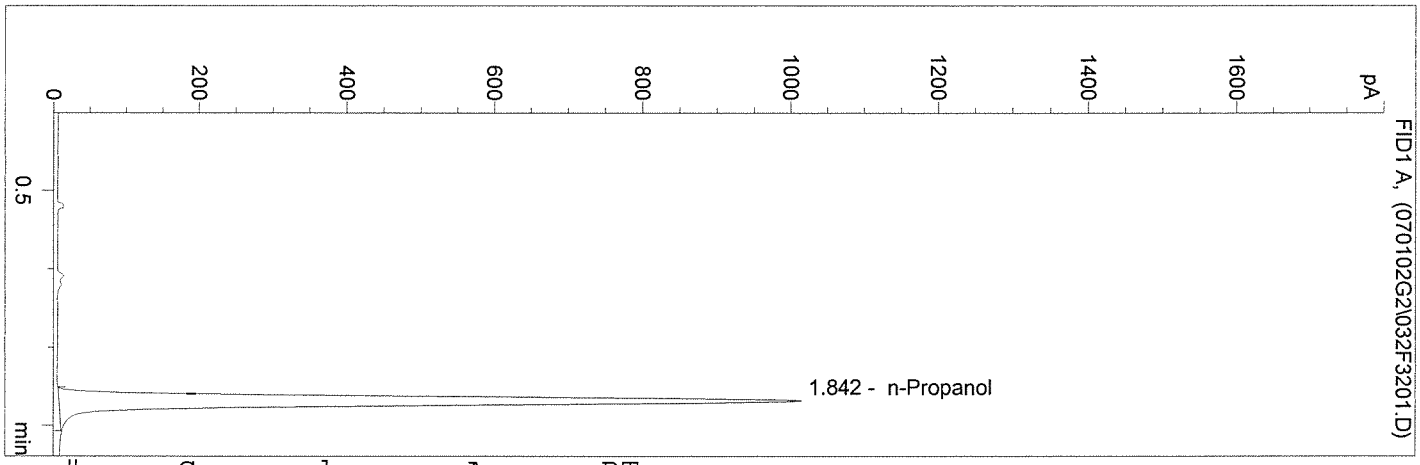
Instrument 2
-ALC1

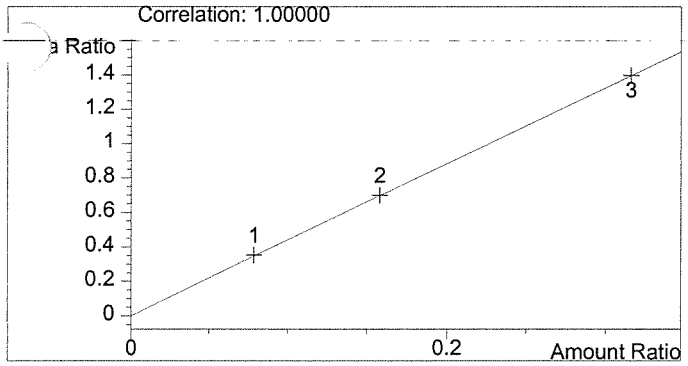
BLANK
GENE SCHWILKE

vial # 32

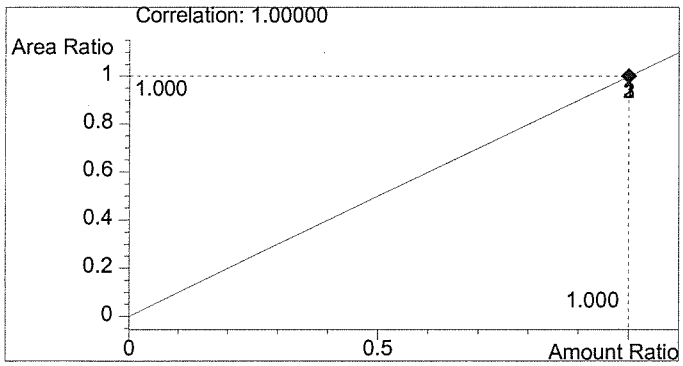


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3901	1.842

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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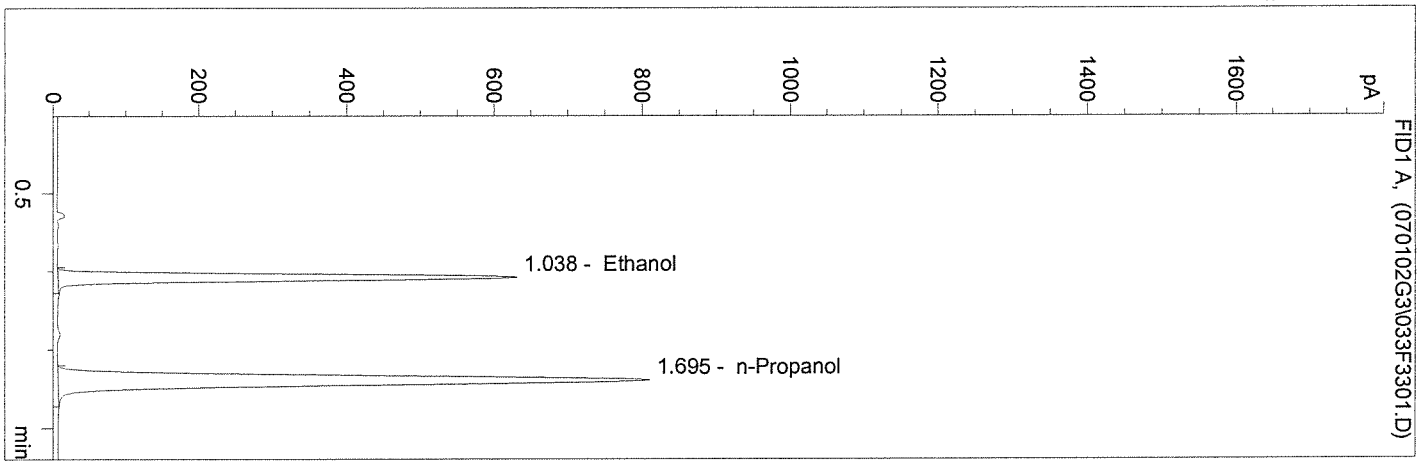
Instrument 1
-ALC1

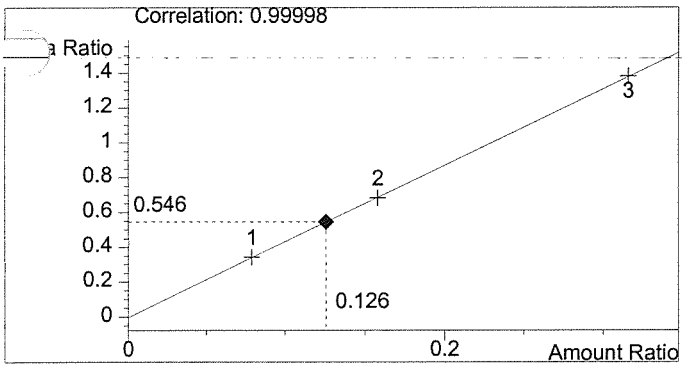
Cal 023766

0.10 QA 02022
GENE SCHWILKE

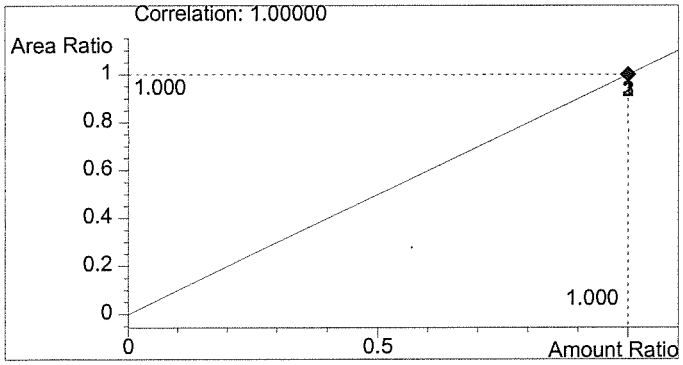
vial # 33



#	Compound	Area	RT
1	Ethanol	1817	1.038
2	n-Propanol	3326	1.695
Totals:			



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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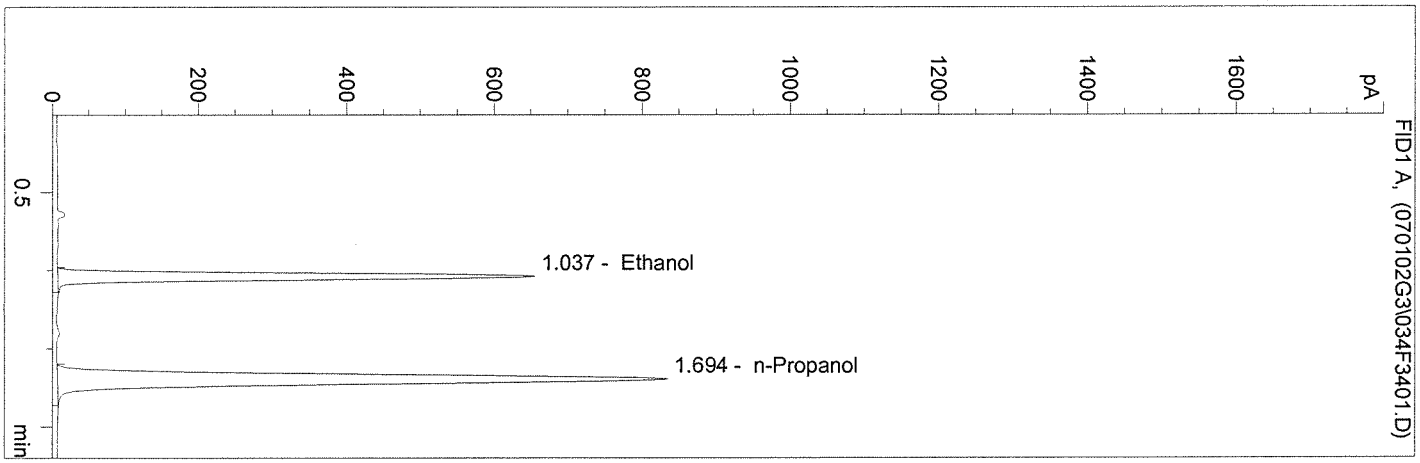
Instrument 1
-ALC1

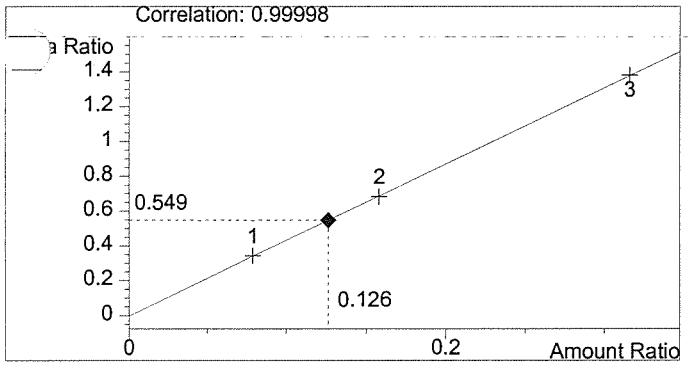
0.10 QA 02022
GENE SCHWILKE

vial # 34

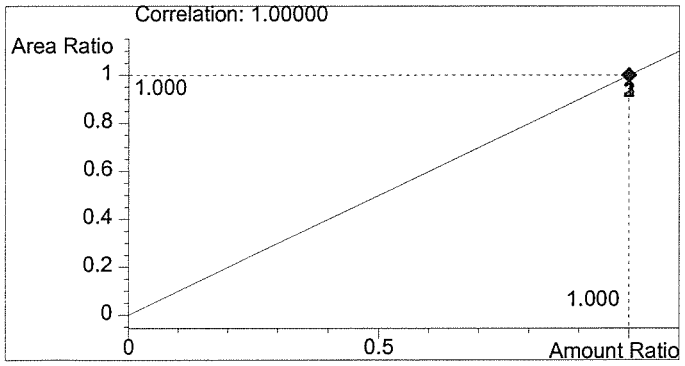


#	Compound	Area	RT
1	Ethanol	1875	1.037
2	n-Propanol	3417	1.694

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

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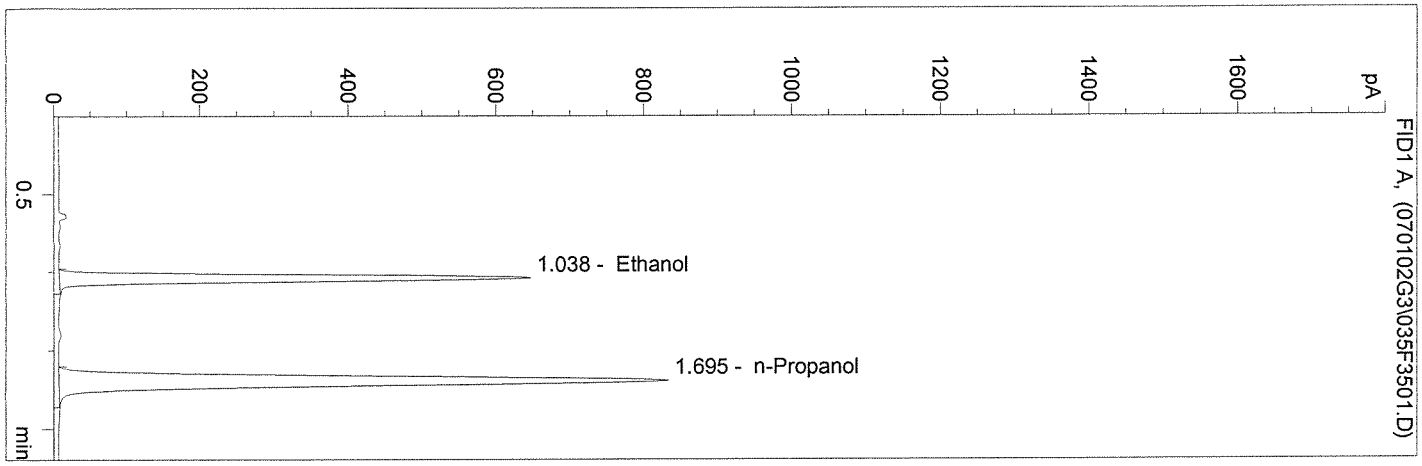
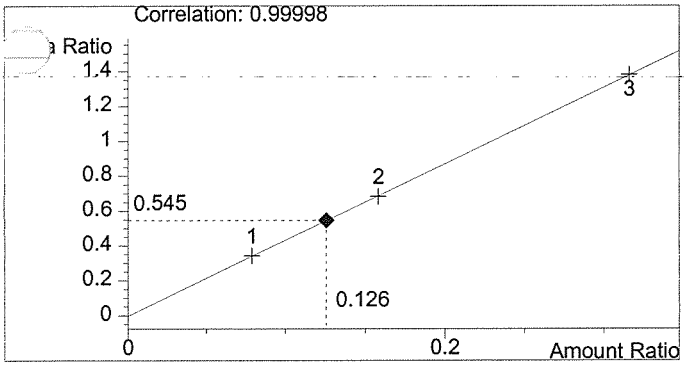
Instrument 1
-ALC1

0.10 QA 02022
GENE SCHWILKE

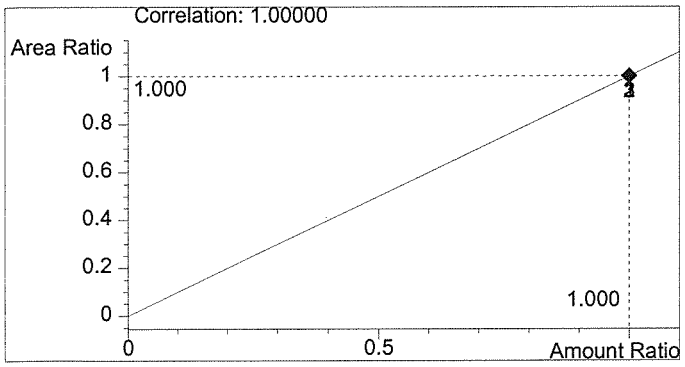
vial # 35



#	Compound	Area	RT
1	Ethanol	1868	1.038
2	n-Propanol	3424	1.695
Totals:			



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

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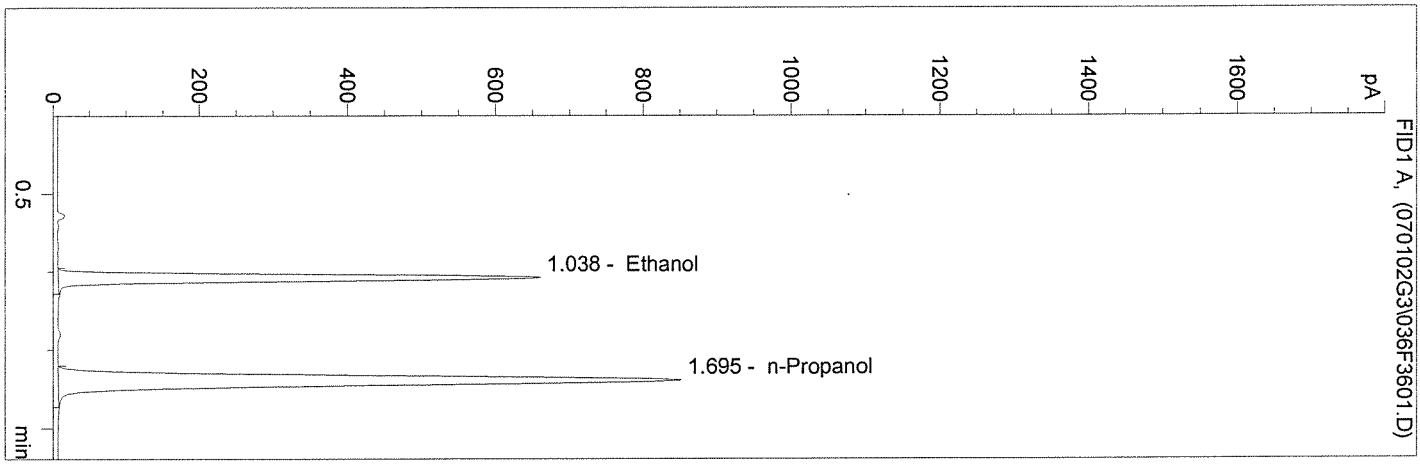
Instrument 1
-ALC1

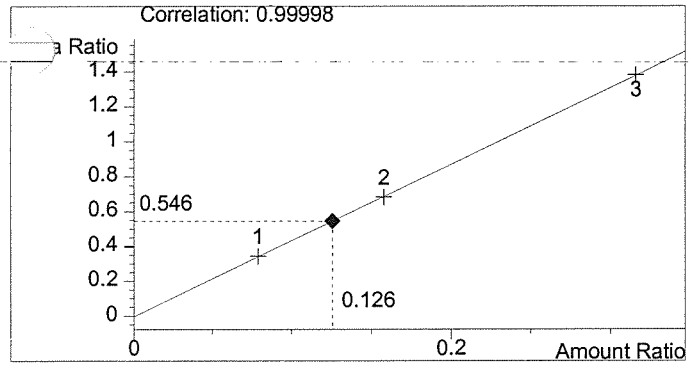
0.10 QA 02022
GENE SCHWILKE

vial # 36

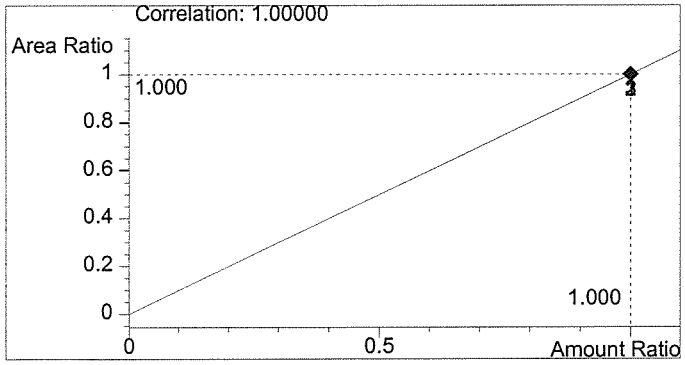


#	Compound	Area	RT
1	Ethanol	1913	1.038
2	n-Propanol	3506	1.695

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

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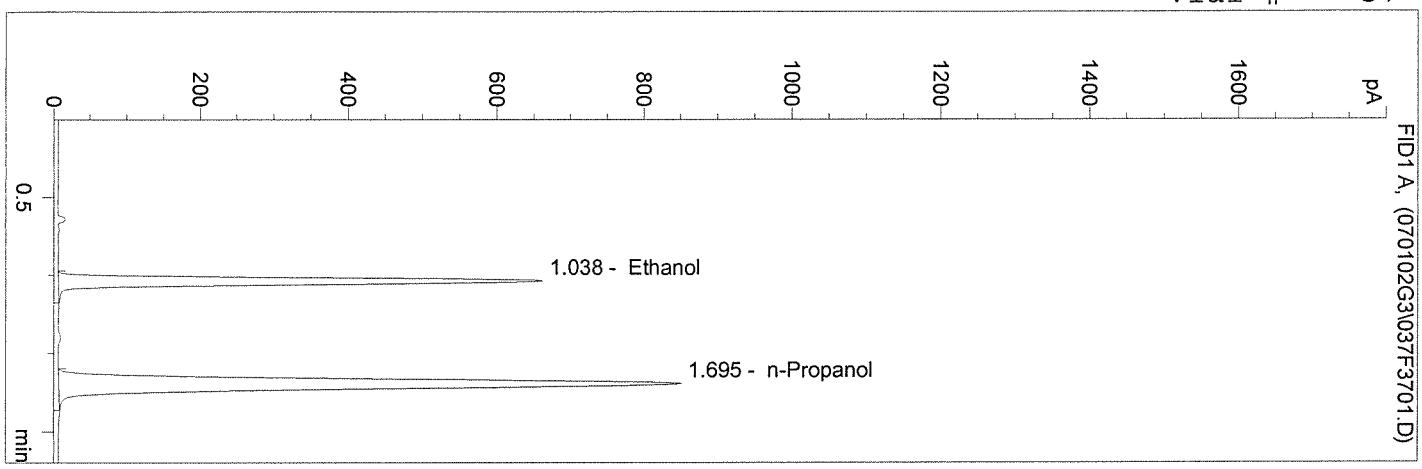
Instrument 1
-ALC1

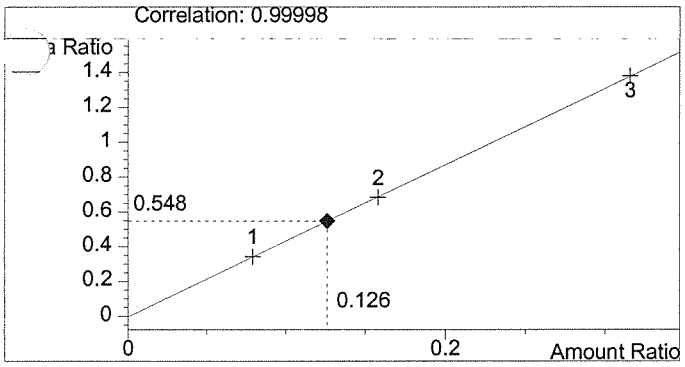
0.10 QA 02022
GENE SCHWILKE

vial # 37

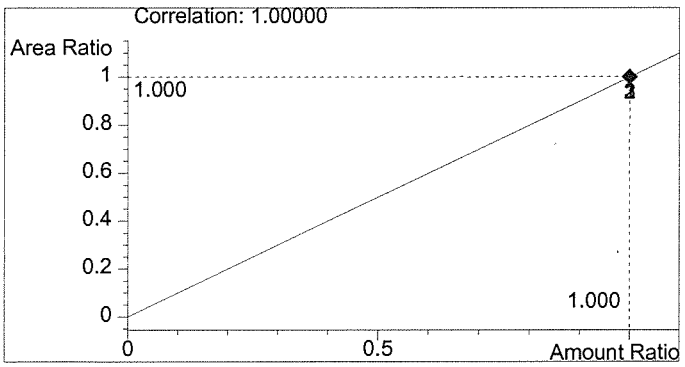


#	Compound	Area	RT
1	Ethanol	1917	1.038
2	n-Propanol	3498	1.695

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

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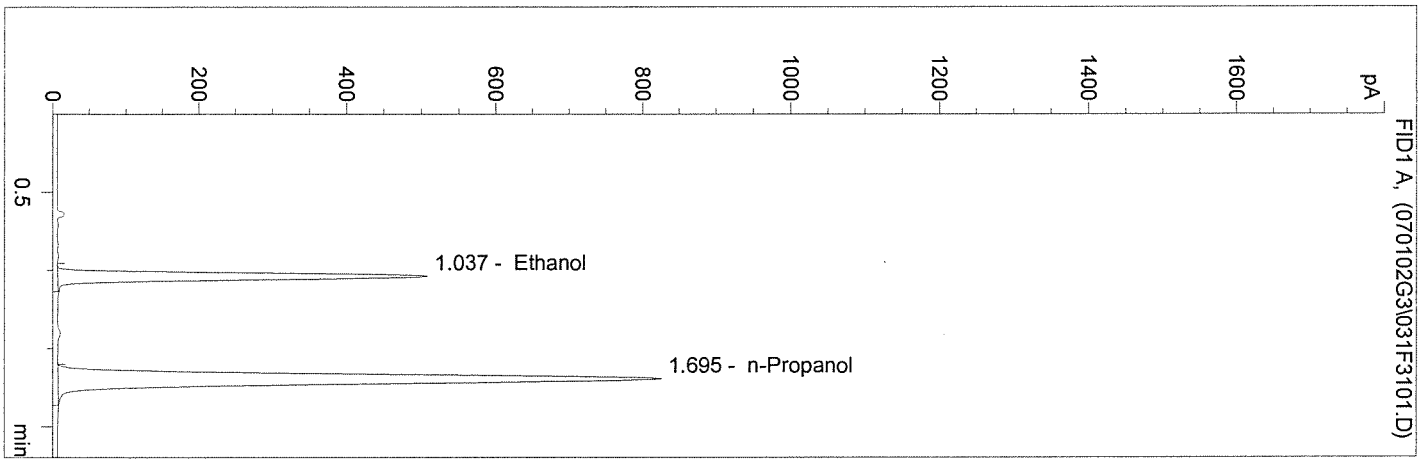
Instrument 1
-ALC1

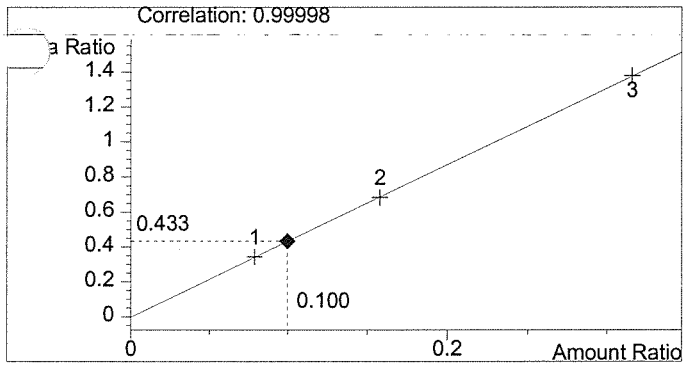
CAP 0.100
GENE SCHWILKE

vial # 31

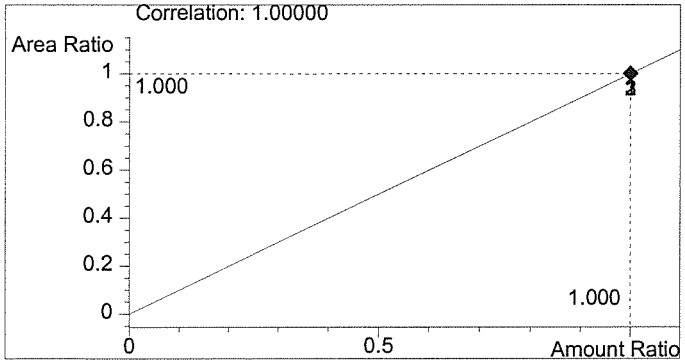


#	Compound	Area	RT
1	Ethanol	1468	1.037
2	n-Propanol	3390	1.695

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 1
-ALC1

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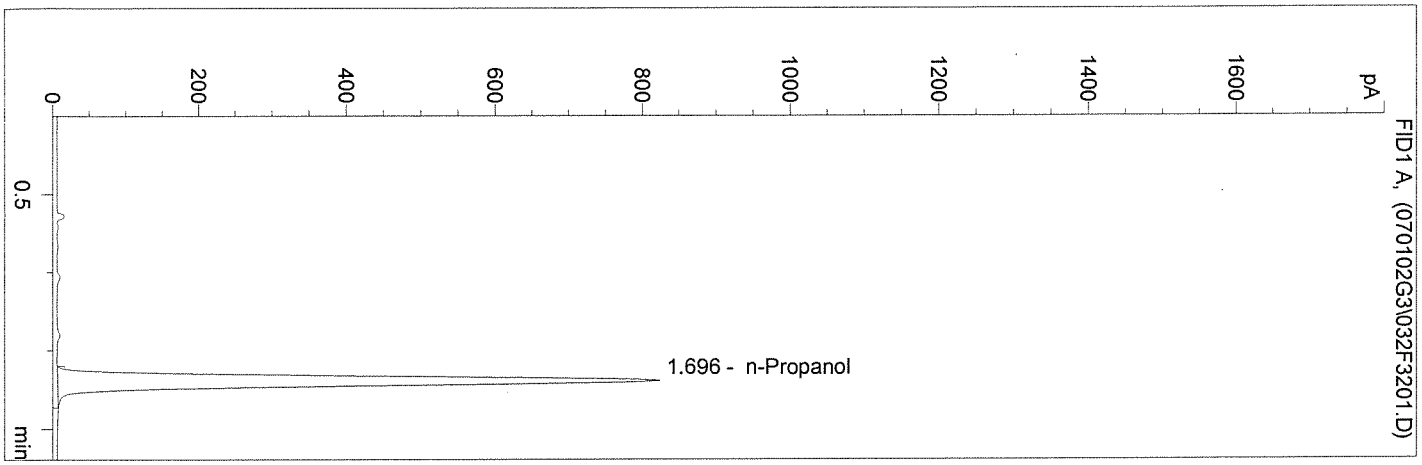
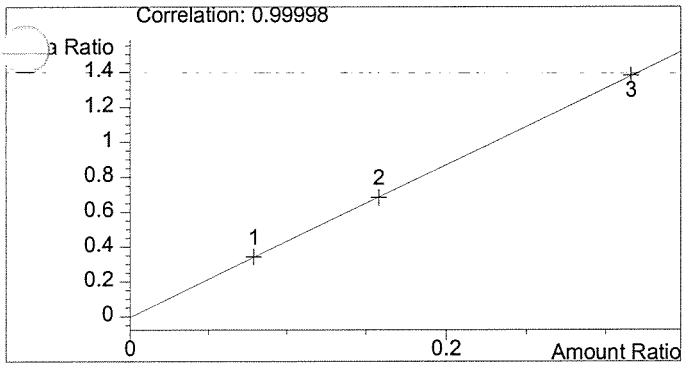
GENE SCHWILKE

vial # 32

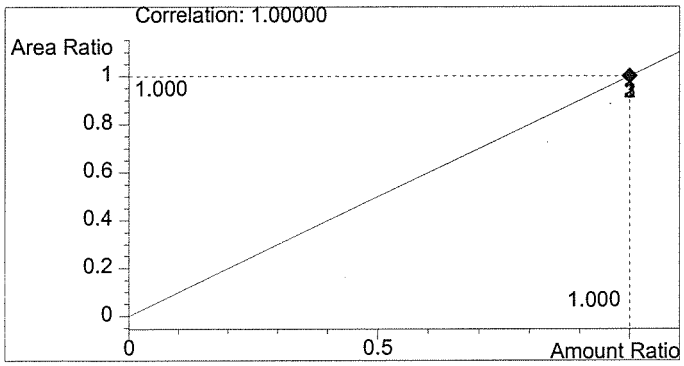


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3388	1.696

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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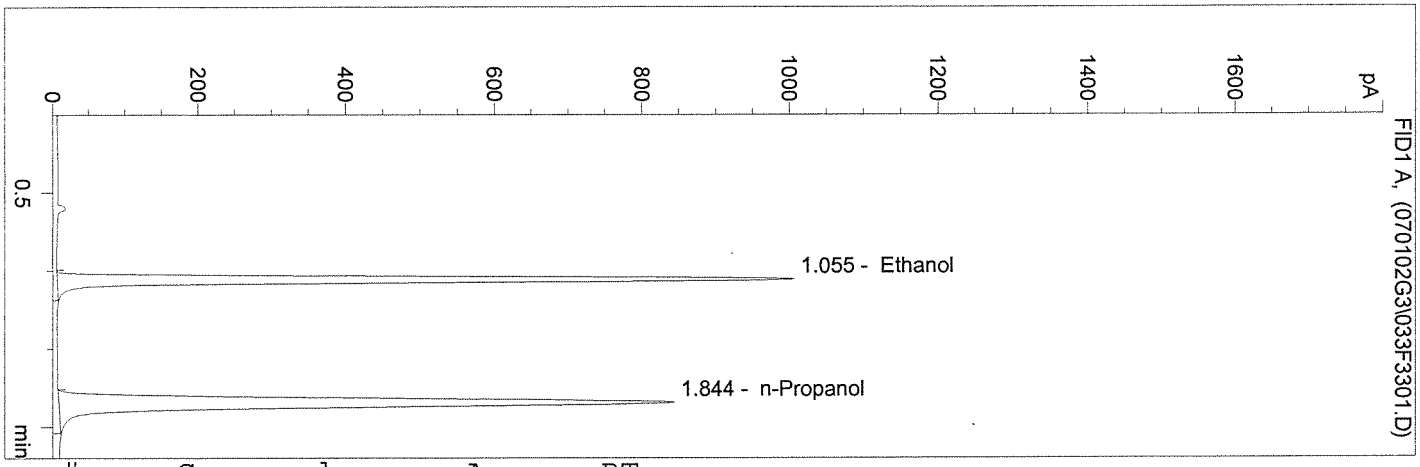
Instrument 2
-ALC1

Cal 0237766

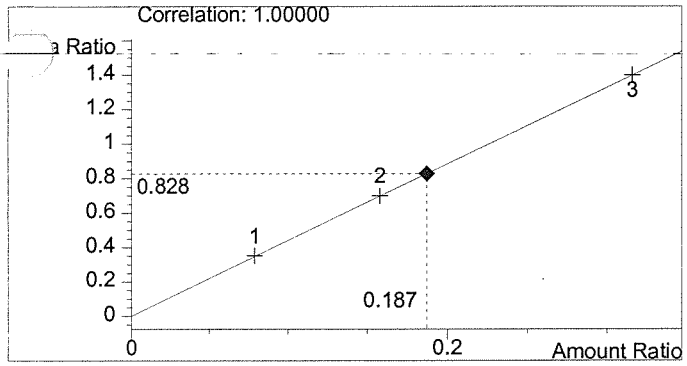
0.15 QA 02023
GENE SCHWILKE

vial # 33

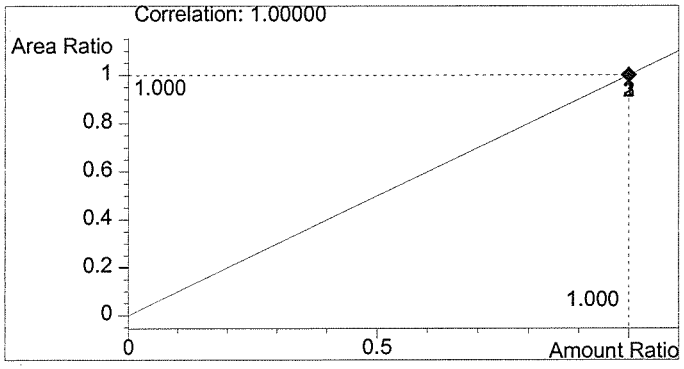


#	Compound	Area	RT
1	Ethanol	2683	1.055
2	n-Propanol	3239	1.844

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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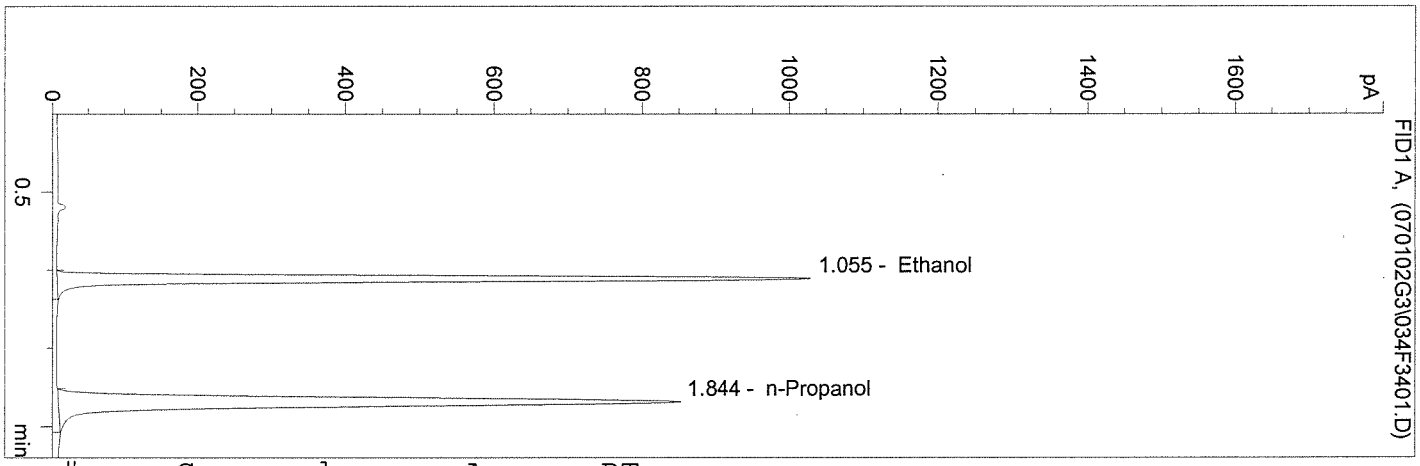
Instrument 2
-ALC1

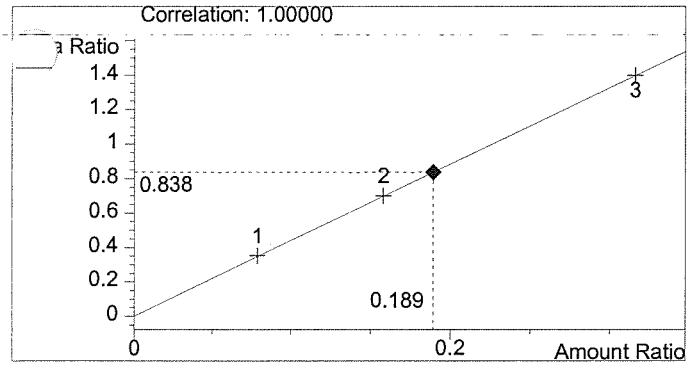
0.15 QA 02023
GENE SCHWILKE

vial # 34

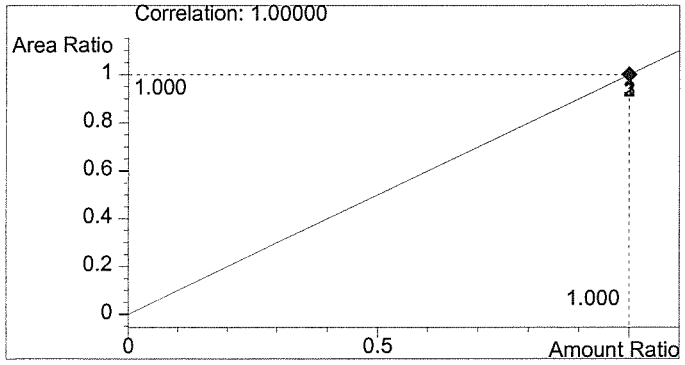


#	Compound	Area	RT
1	Ethanol	2743	1.055
2	n-Propanol	3273	1.844

Totals:



Ethanol 0.189 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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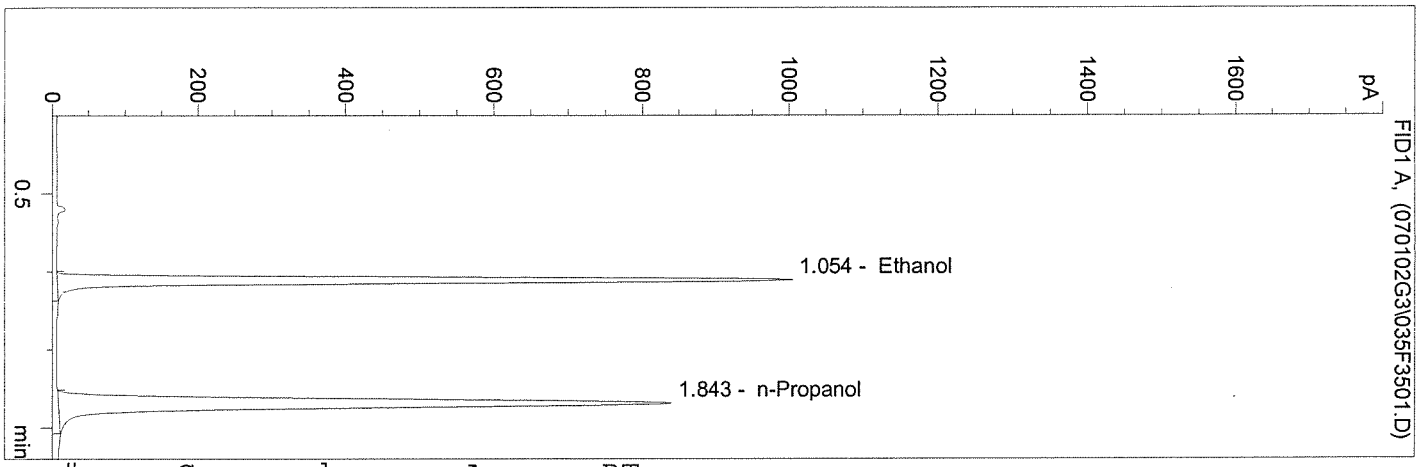
7/1/02 5:39:03 PM
Instrument 2
ALC1

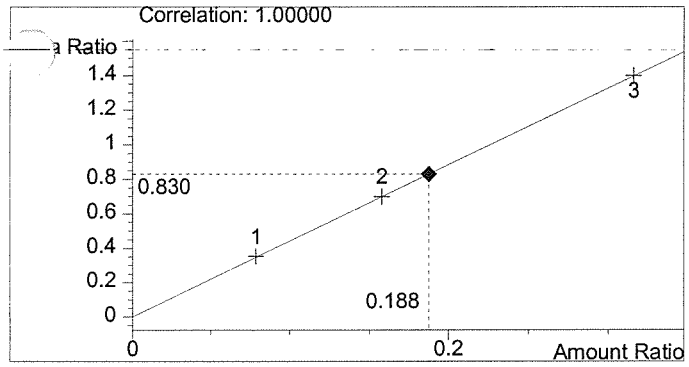
0.15 QA 02023
GENE SCHWILKE

vial # 35

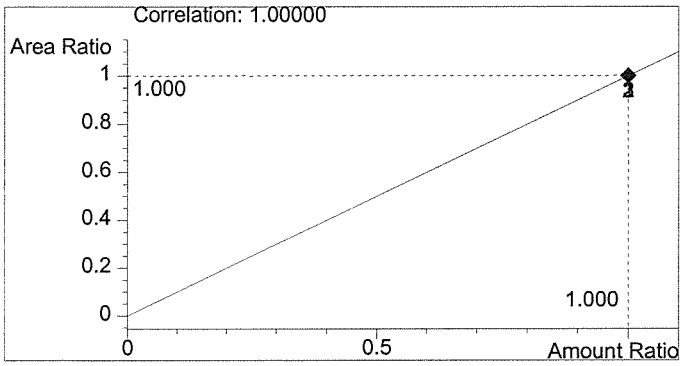


#	Compound	Area	RT
1	Ethanol	2669	1.054
2	n-Propanol	3215	1.843

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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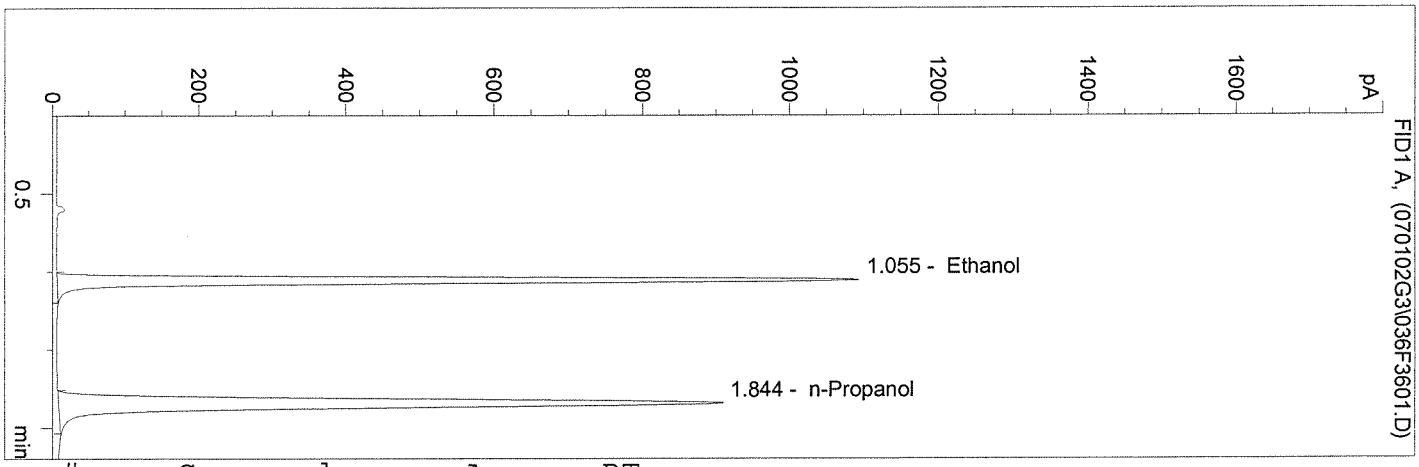
Instrument 2
-ALC1

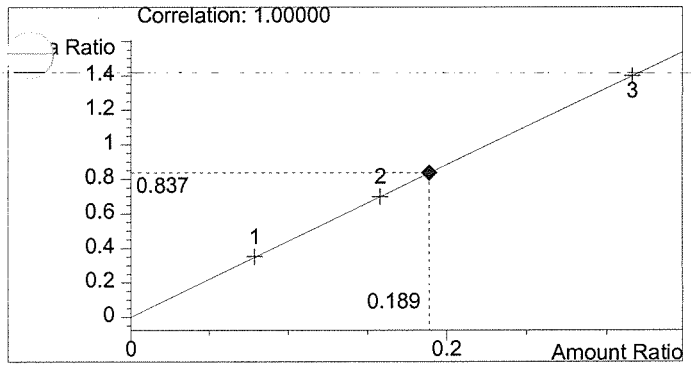
0.15 QA 02023
GENE SCHWILKE

vial # 36

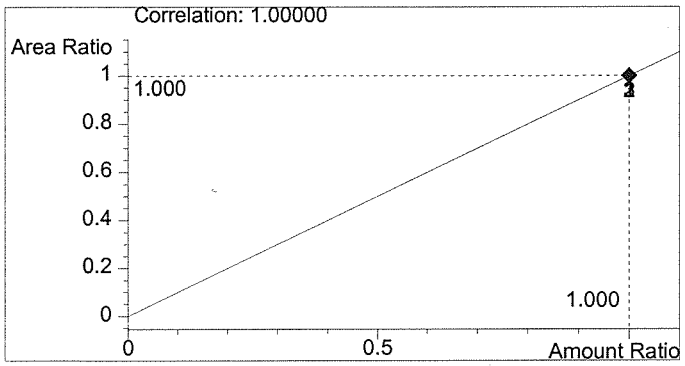


#	Compound	Area	RT
1	Ethanol	2916	1.055
2	n-Propanol	3485	1.844

Totals:



Ethanol 0.189 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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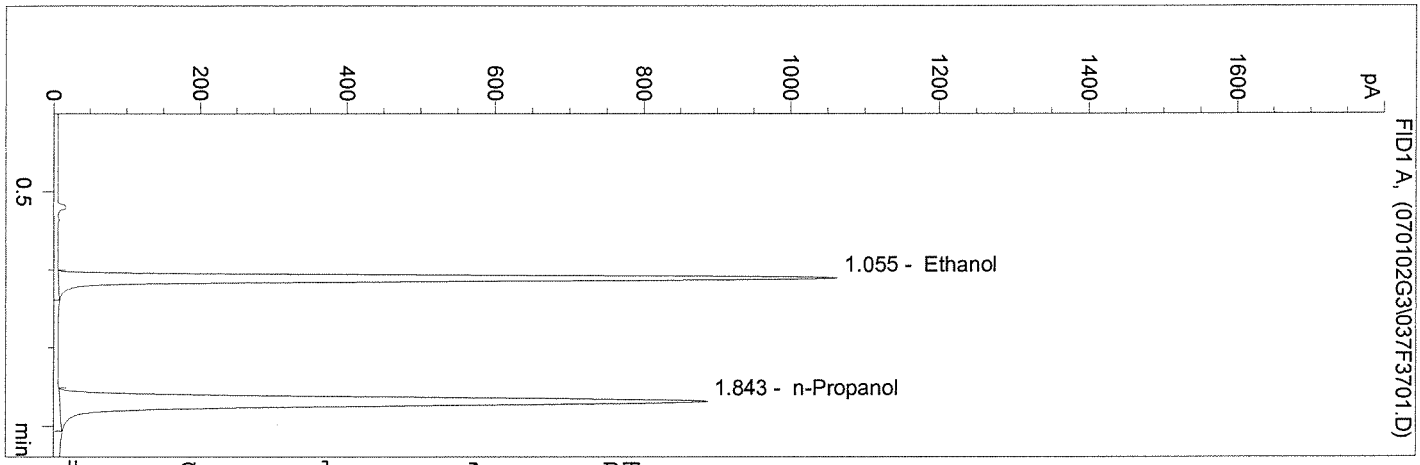
Instrument 2
-ALC1

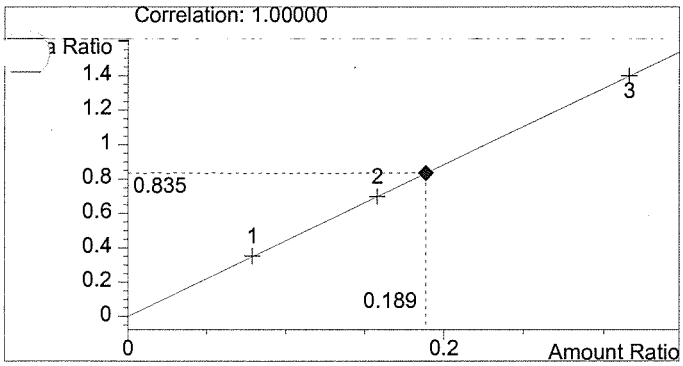
0.15 QA 02023
GENE SCHWILKE

vial # 37

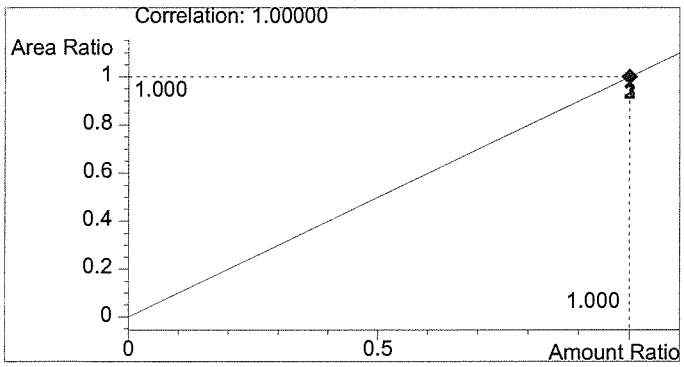


#	Compound	Area	RT
1	Ethanol	2830	1.055
2	n-Propanol	3388	1.843

Totals:



Ethanol 0.189 g/100ml



n-Propanol 1.000 g/100ml

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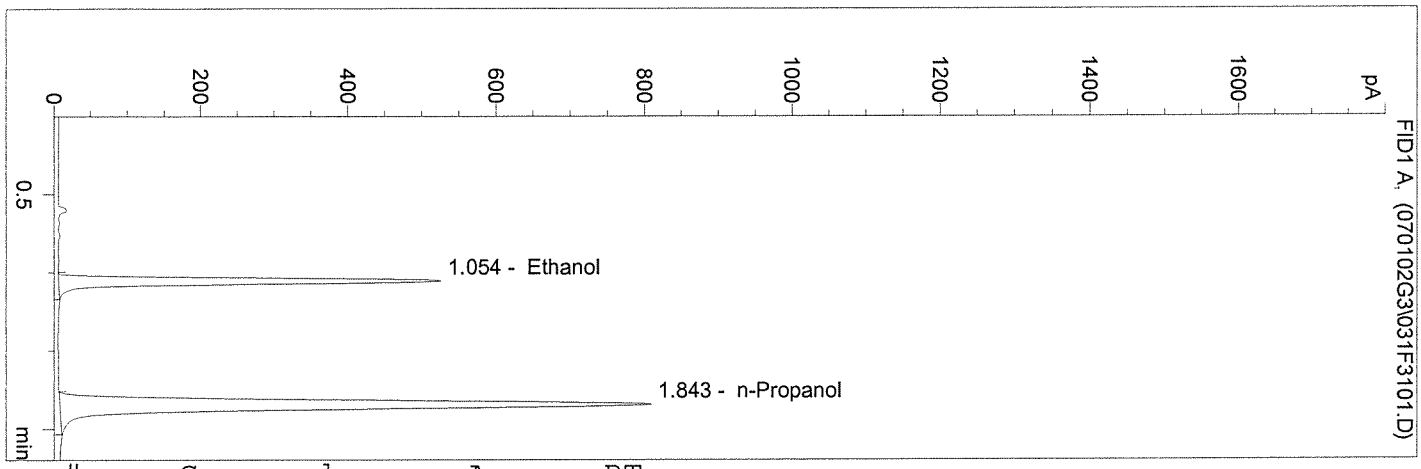
Instrument 2
-ALC1

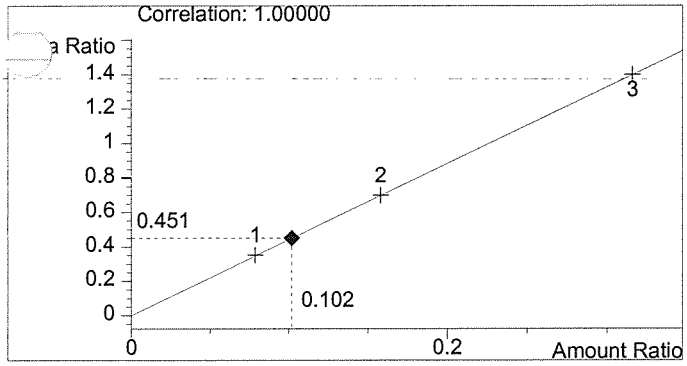
CAP 0.100
GENE SCHWILKE

vial # 31

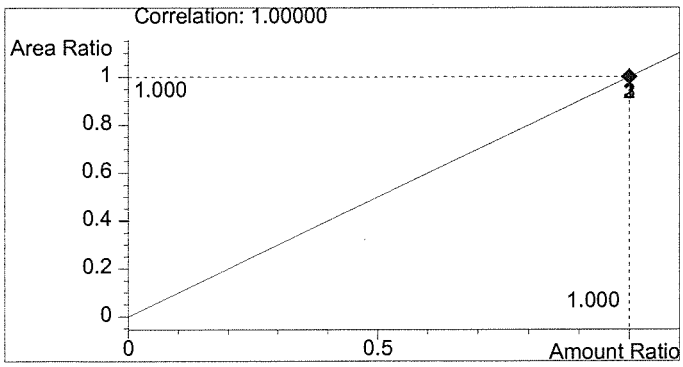


#	Compound	Area	RT
1	Ethanol	1400	1.054
2	n-Propanol	3105	1.843

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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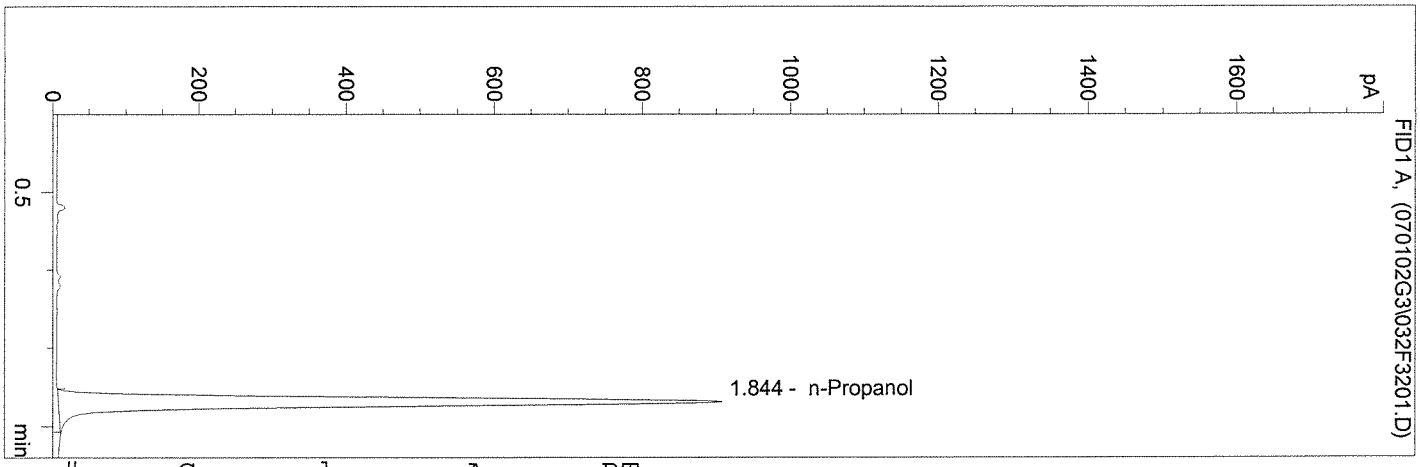
Instrument 2
-ALC1

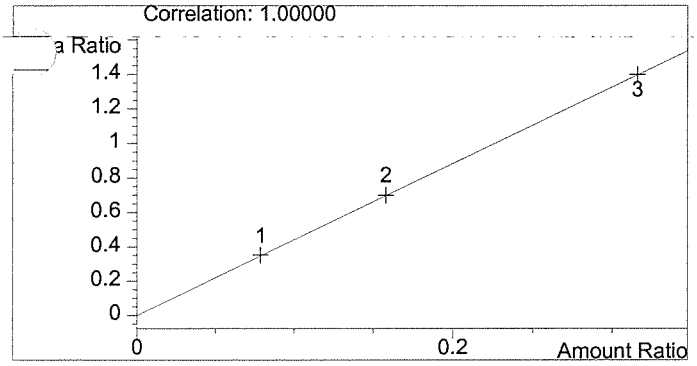
BLANK
GENE SCHWILKE

vial # 32

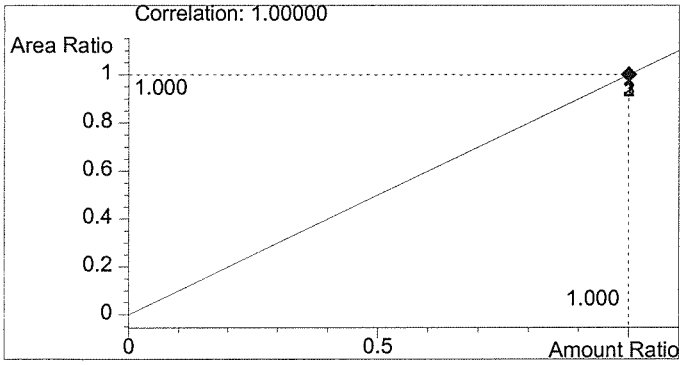


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3493	1.844

Totals:



Ethanol 0.000 g/100ml

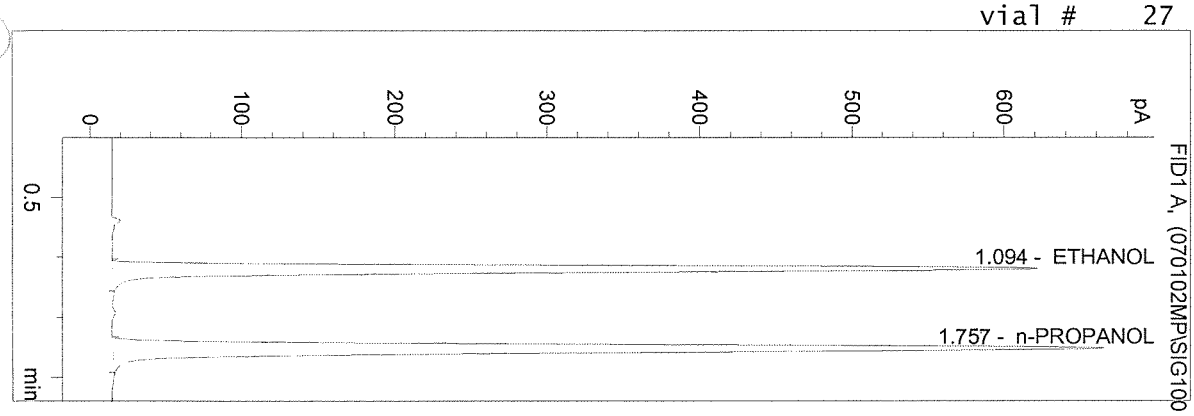


n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:58:15 PM
Instrument 3
DB-ALC1

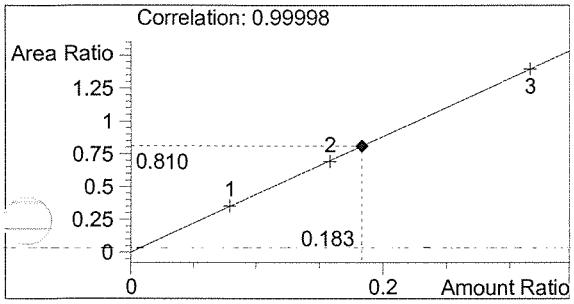
02023 0.15qa
m pemberton

vial # 27

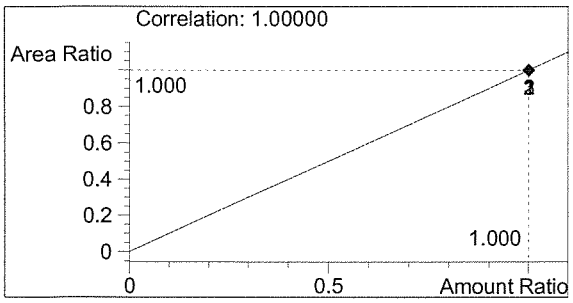


#	Compound	Area	RT
1	ETHANOL	2421	1.094
2	n-PROPANOL	2989	1.757

Totals:



ETHANOL 0.183 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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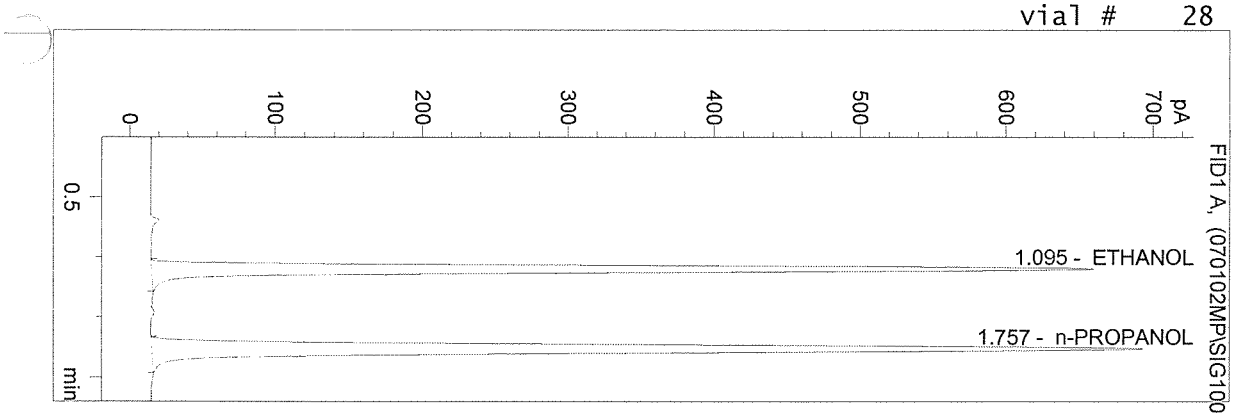
Instrument 3
DB-ALC1

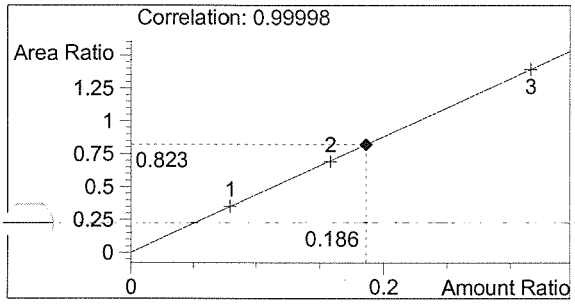
02023 0.15qa
m pemberton

vial # 28

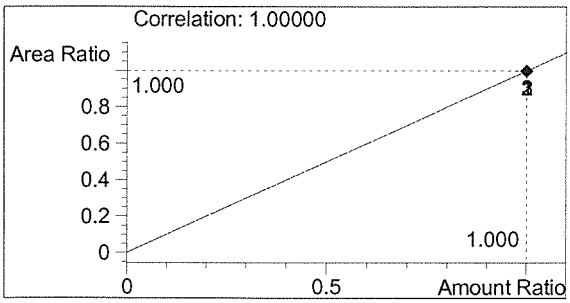


#	Compound	Area	RT
1	ETHANOL	2541	1.095
2	n-PROPANOL	3089	1.757

Totals:



ETHANOL 0.186 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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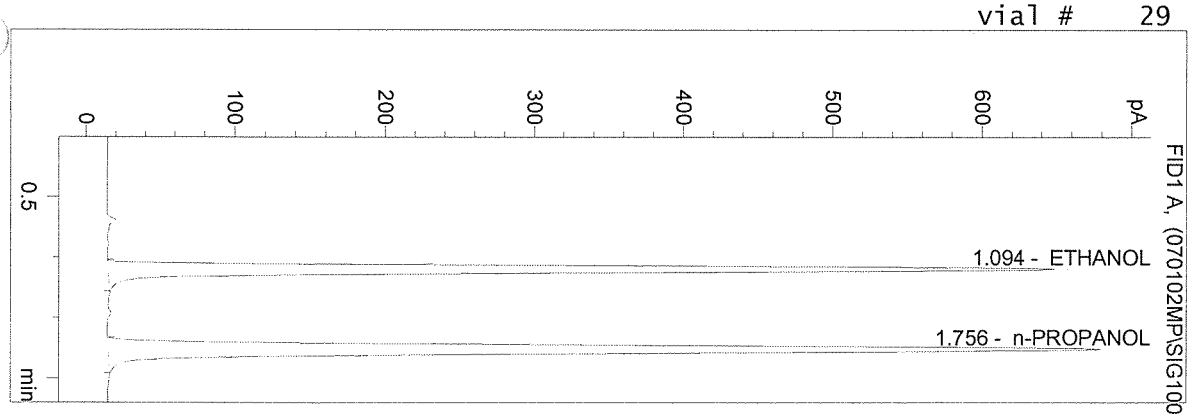
7/1/02 2:04:51 PM
Instrument 3
DB-ALC1

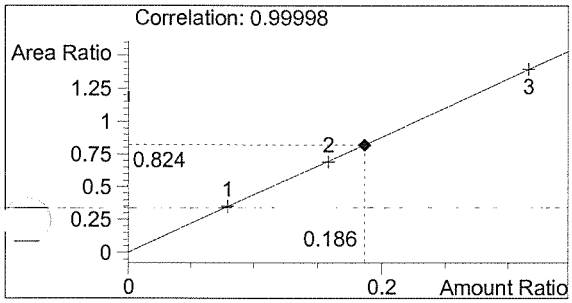
02023 0.15qa
m pemberton

vial # 29

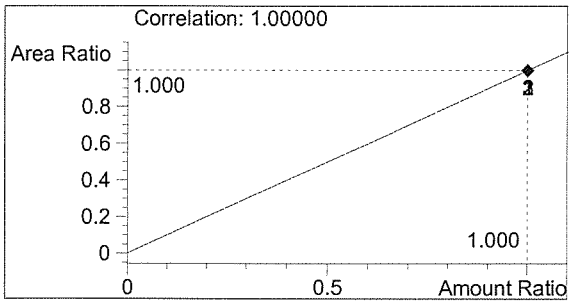


#	Compound	Area	RT
1	ETHANOL	2503	1.094
2	n-PROPANOL	3040	1.756

Totals:



ETHANOL 0.186 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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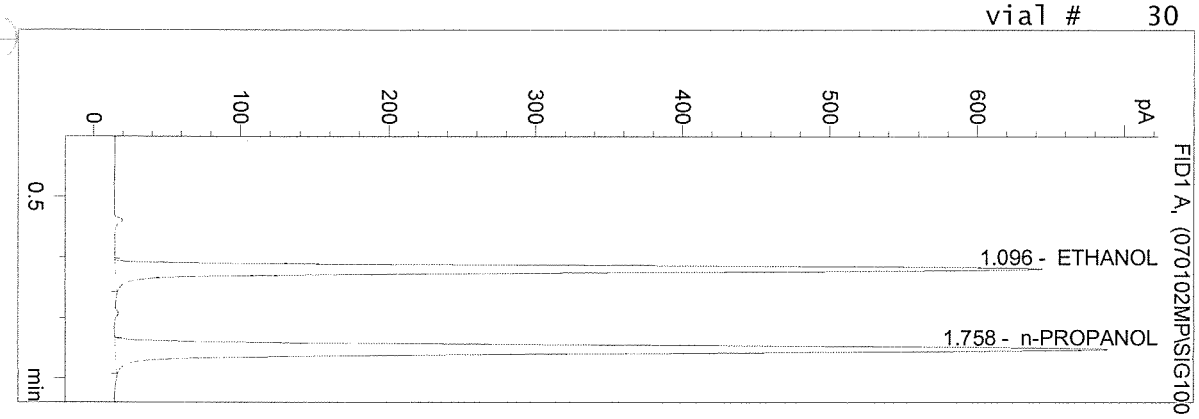
7/1/02 2:08:02 PM
Instrument 3
DB-ALC1

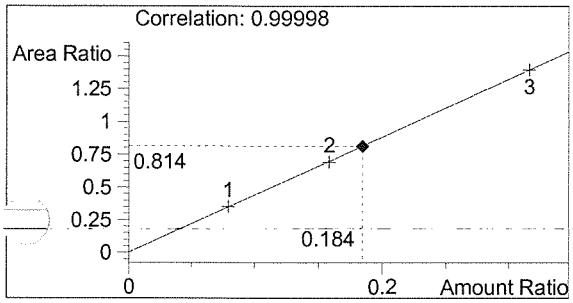
02023 0.15qa
m pemberton

vial # 30

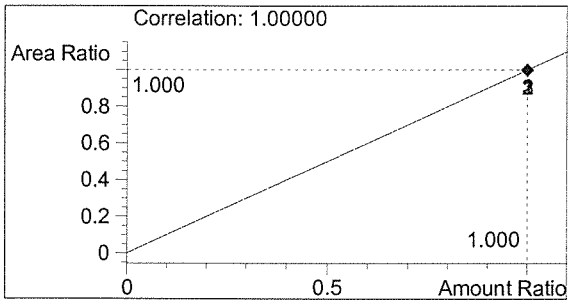


#	Compound	Area	RT
1	ETHANOL	2531	1.096
2	n-PROPANOL	3110	1.758

Totals:



ETHANOL 0.184 mg/L



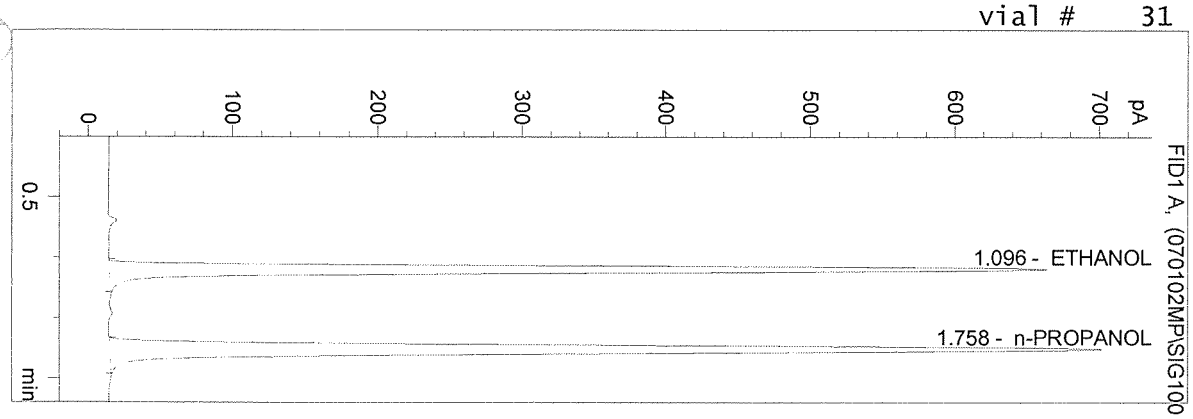
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 2:11:13 PM
Instrument 3
DB-ALC1

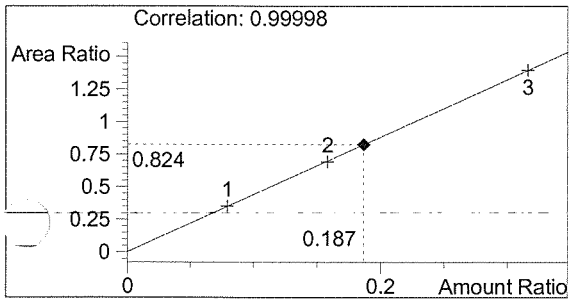
02023 0.15qa
m pemberton

vial # 31

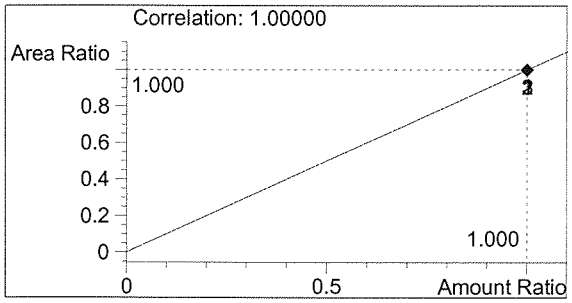


#	Compound	Area	RT
1	ETHANOL	2599	1.096
2	n-PROPANOL	3154	1.758

Totals:



ETHANOL 0.187 mg/L



n-PROPANOL 1.000 mg/L

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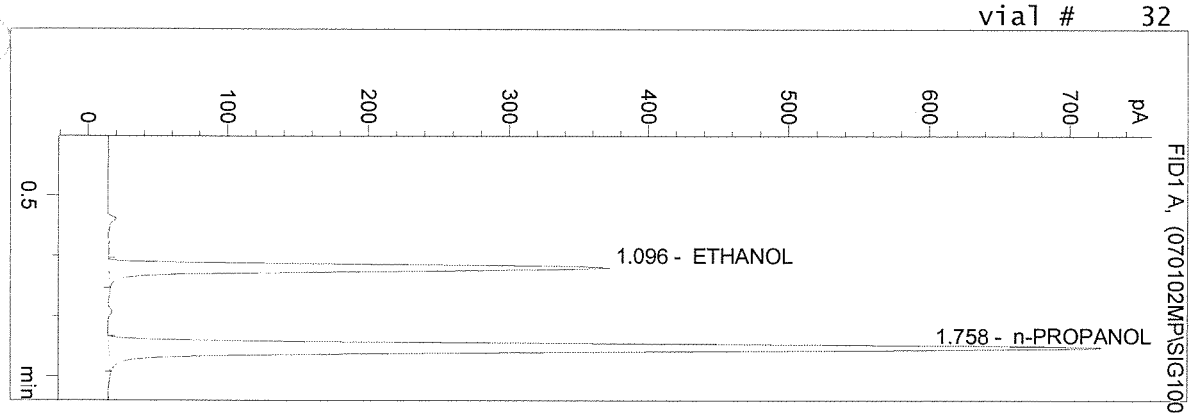
7/1/02 2:14:23 PM
Instrument 3
DB-ALC1

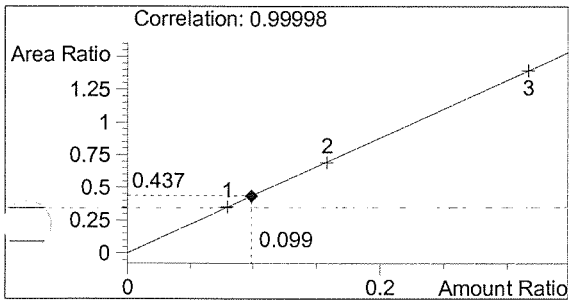
0.10 control
m pemberton

vial # 32

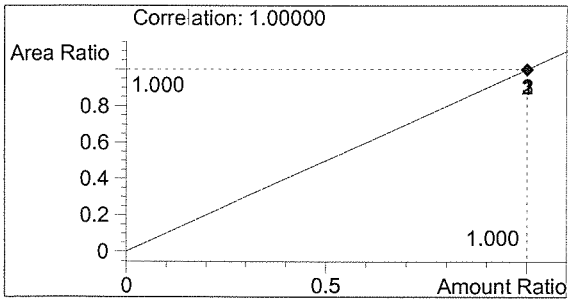


#	Compound	Area	RT
1	ETHANOL	1415	1.096
2	n-PROPANOL	3239	1.758

Totals:



ETHANOL 0.099 mg/L



n-PROPANOL 1.000 mg/L

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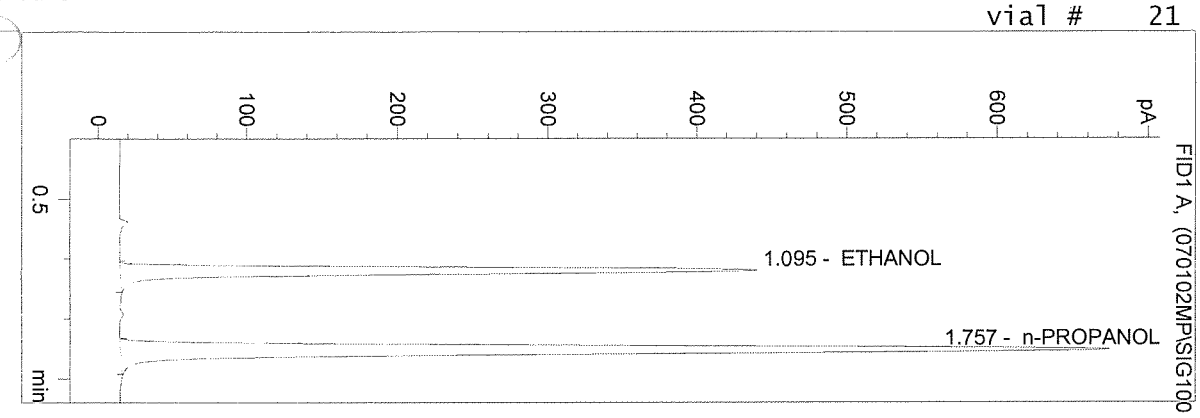
7/1/02 1:38:59 PM
Instrument 3
DB-ALC1

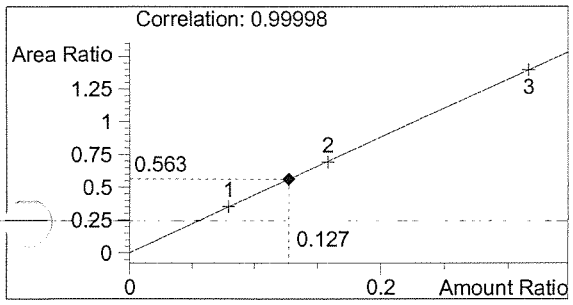
02022 0.10 qa
m pemberton

vial # 21

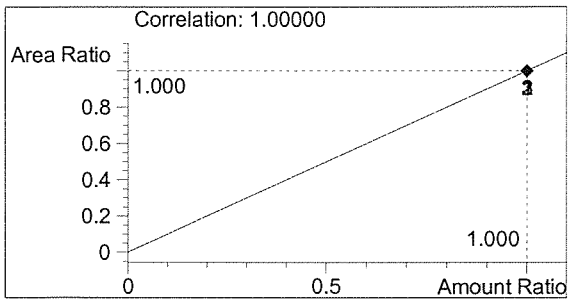


#	Compound	Area	RT
1	ETHANOL	1708	1.095
2	n-PROPANOL	3036	1.757

Totals:



ETHANOL 0.127 mg/L



n-PROPANOL 1.000 mg/L

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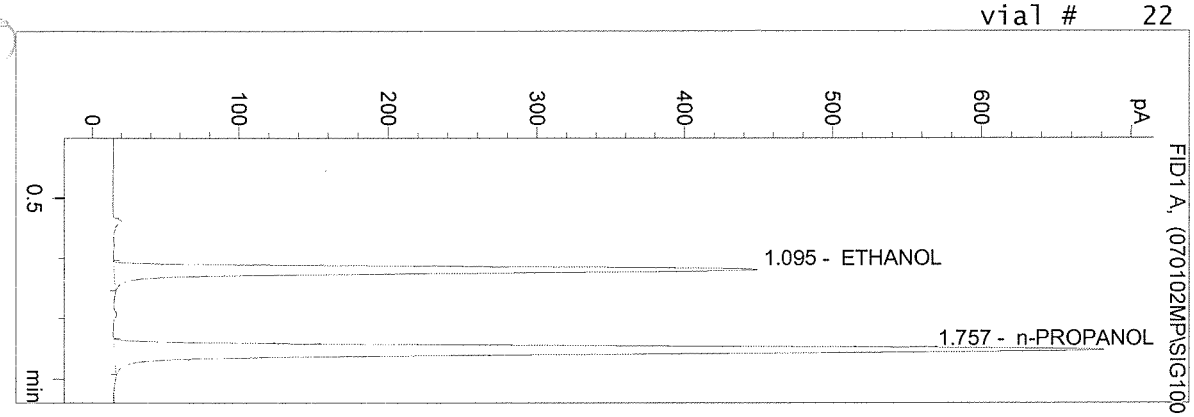
7/1/02 1:42:09 PM
Instrument 3
DB-ALC1

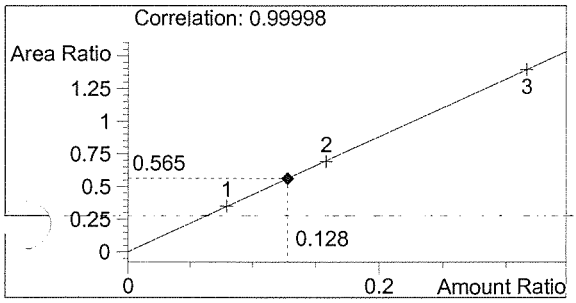
02022 0.10qa
m pemberton

vial # 22

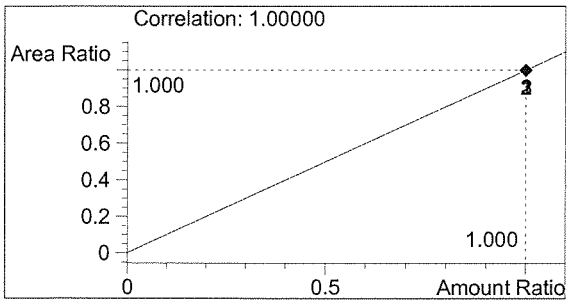


#	Compound	Area	RT
1	ETHANOL	1725	1.095
2	n-PROPANOL	3055	1.757

Totals:



ETHANOL 0.128 mg/L



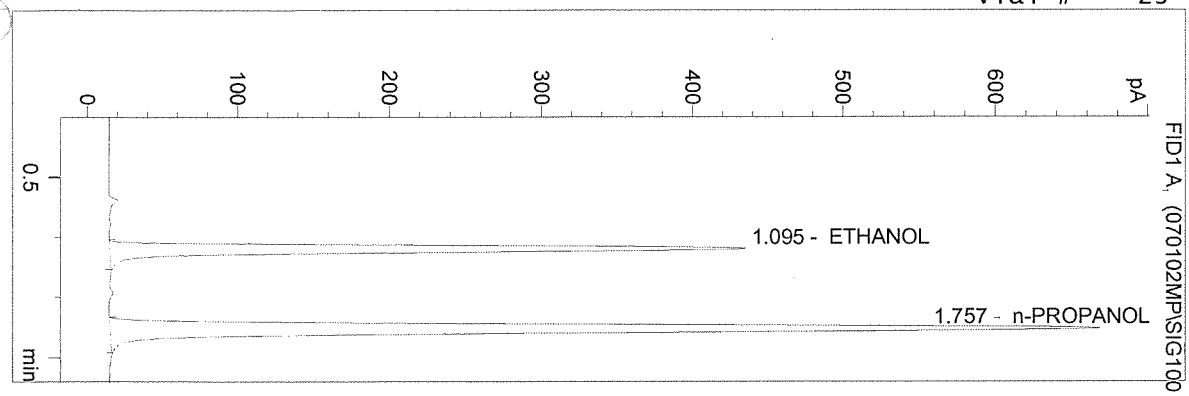
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:45:19 PM
Instrument 3
DB-ALC1

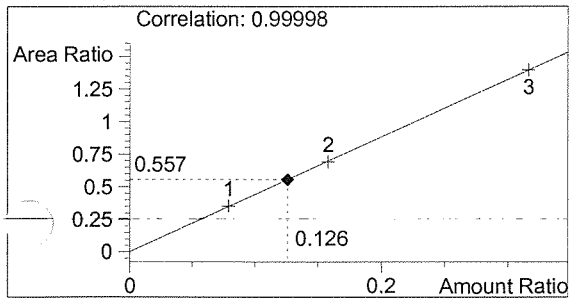
02022 0.10qa
m pemberton

vial # 23

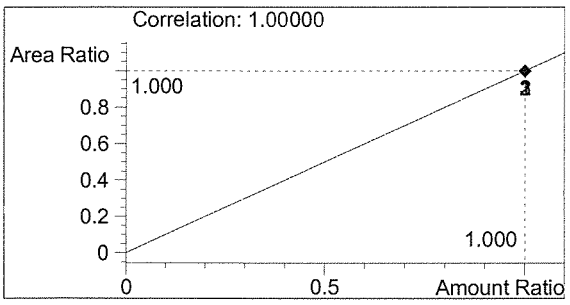


#	Compound	Area	RT
1	ETHANOL	1660	1.095
2	n-PROPANOL	2981	1.757

Totals:



ETHANOL 0.126 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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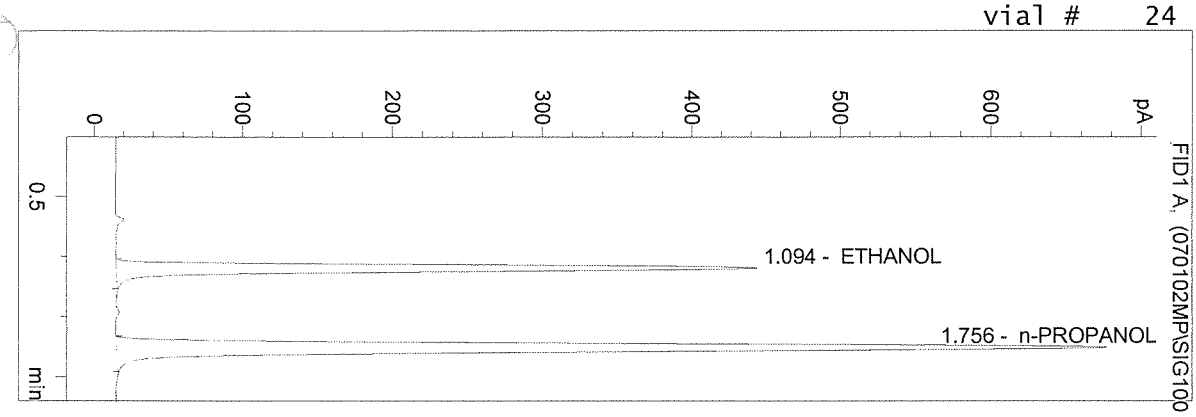
7/1/02 1:48:29 PM
Instrument 3
DB-ALC1

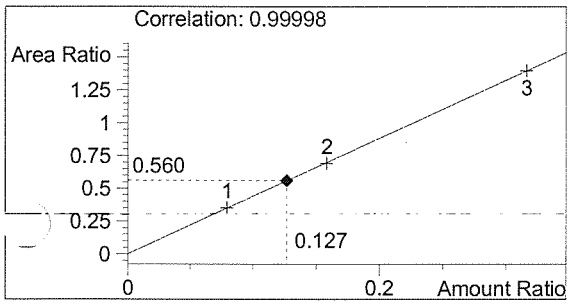
02022 0.10qa
m pemberton

vial # 24

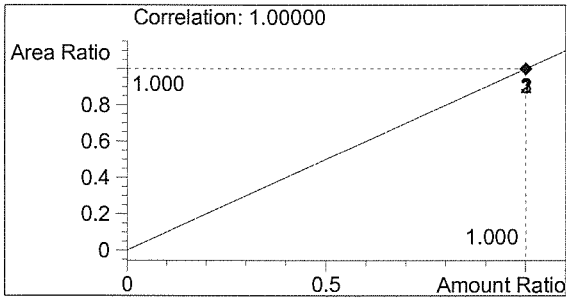


#	Compound	Area	RT
1	ETHANOL	1684	1.094
2	n-PROPANOL	3006	1.756

Totals:



ETHANOL 0.127 mg/L



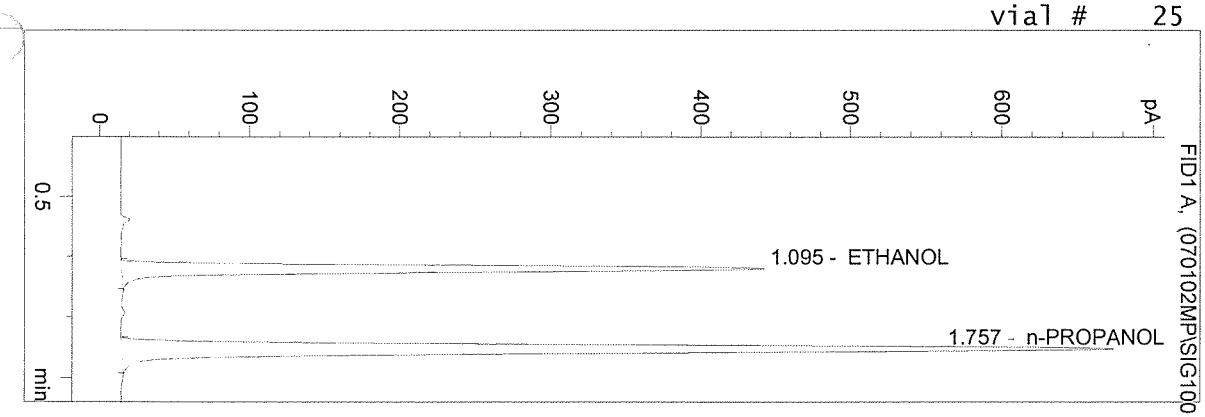
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:51:55 PM
Instrument 3
DB-ALC1

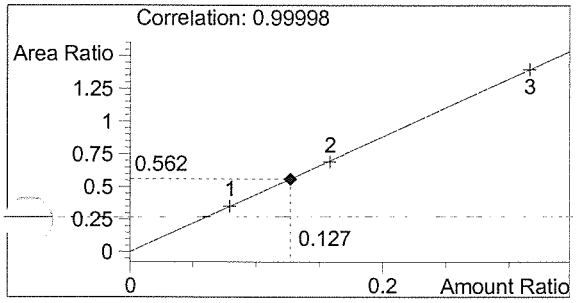
02022 0.10qa
m pemberton

vial # 25

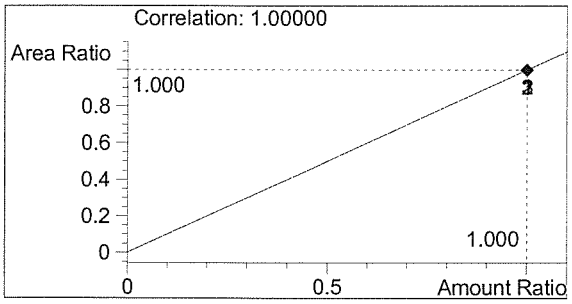


#	Compound	Area	RT
1	ETHANOL	1703	1.095
2	n-PROPANOL	3032	1.757

Totals:



ETHANOL 0.127 mg/L



n-PROPANOL 1.000 mg/L

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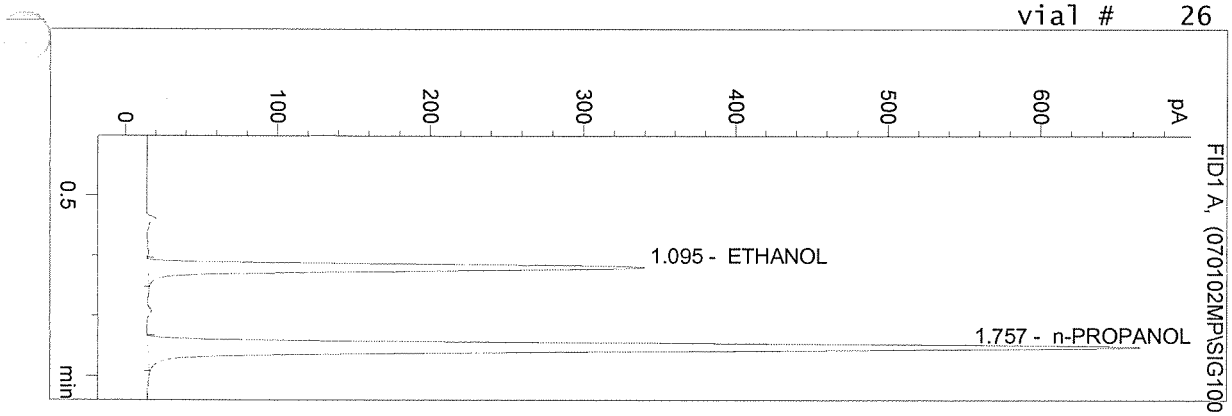
C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:55:05 PM
Instrument 3
DB-ALC1

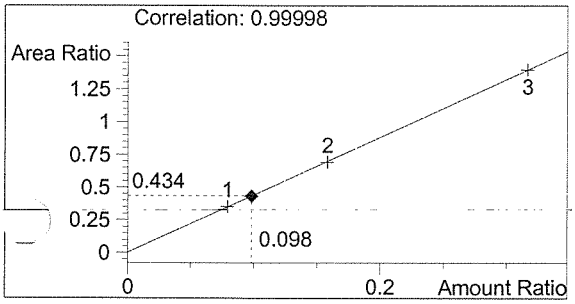
0.10 control
m pemberton

vial # 26

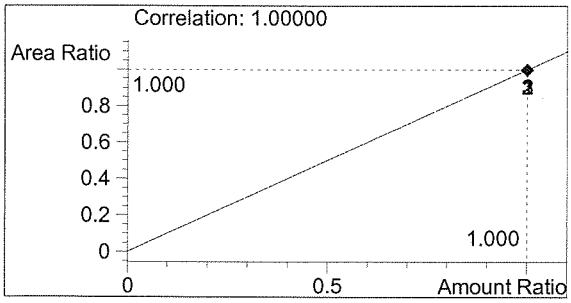


#	Compound	Area	RT
1	ETHANOL	1303	1.095
2	n-PROPANOL	3002	1.757

Totals:



ETHANOL 0.098 mg/L

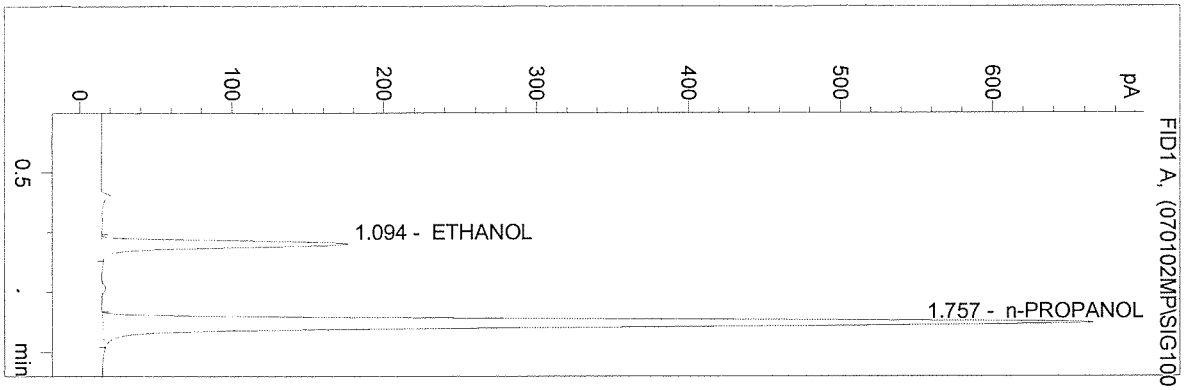


n-PROPANOL 1.000 mg/L

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:19:25 PM
Instrument 3
DB-ALC1

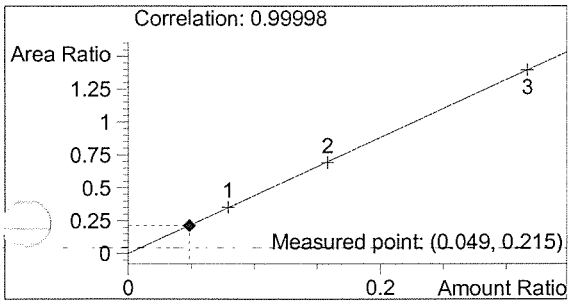
02021 0.04 qa
m pemberton

vial # 15

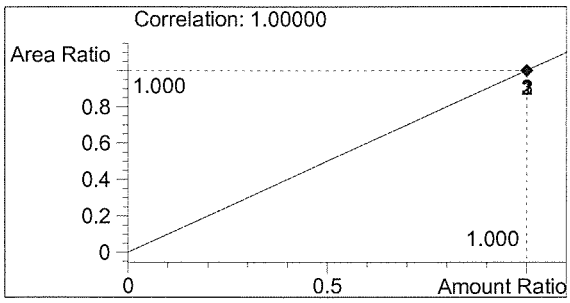


#	Compound	Area	RT
1	ETHANOL	640	1.094
2	n-PROPANOL	2980	1.757

Totals:



ETHANOL 0.049 mg/L



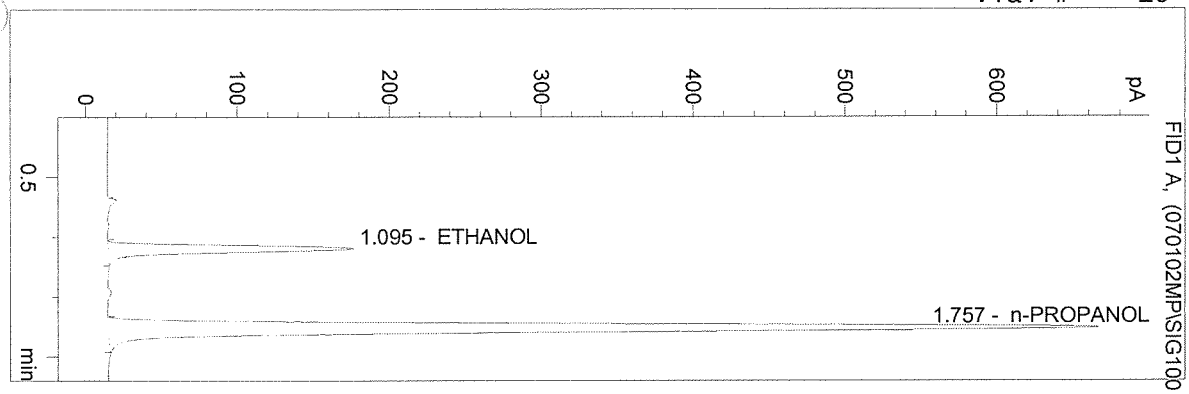
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:22:36 PM
Instrument 3
DB-ALC1

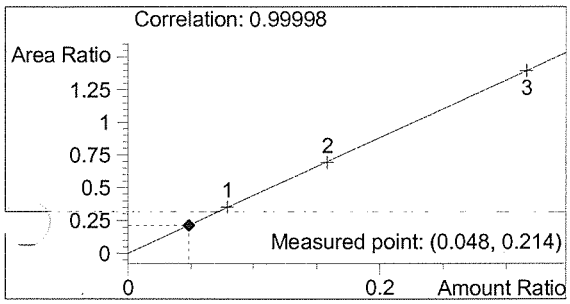
02021 0.04 qa
m pemberton

vial # 16

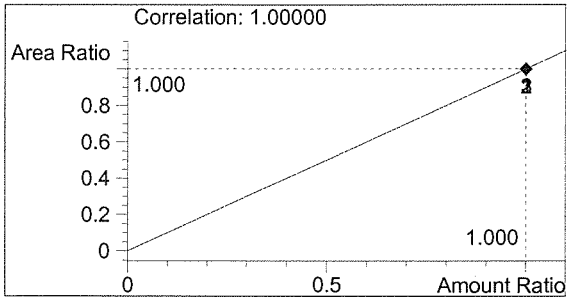


#	Compound	Area	RT
1	ETHANOL	638	1.095
2	n-PROPANOL	2976	1.757

Totals:



ETHANOL 0.048 mg/L



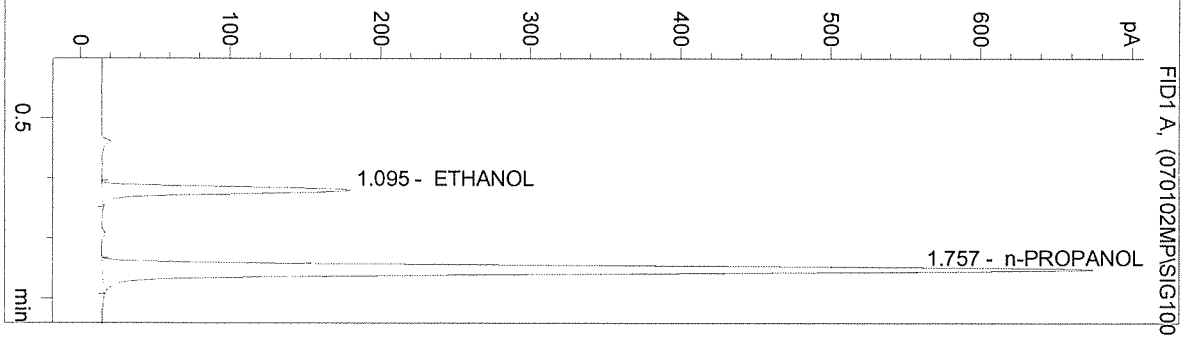
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\STANDBY.M
7/1/02 1:26:02 PM
Instrument 3
DB-ALC1

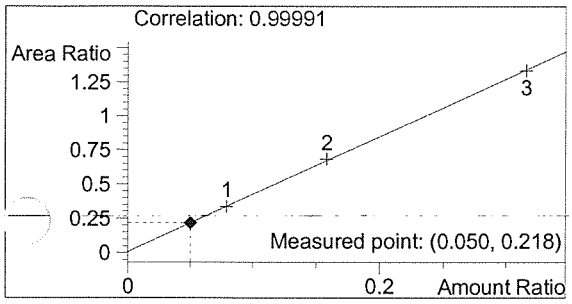
02021 0.04 qa
m pemberton

vial # 17

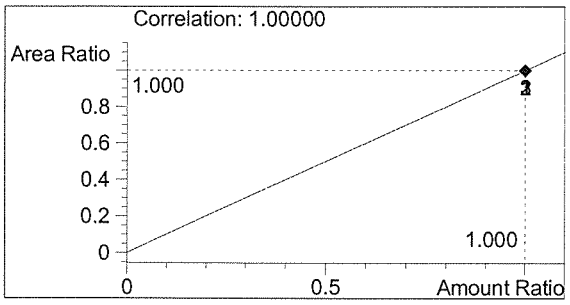


#	Compound	Area	RT
1	ETHANOL	661	1.095
2	n-PROPANOL	3034	1.757

Totals:



ETHANOL 0.050 mg/L

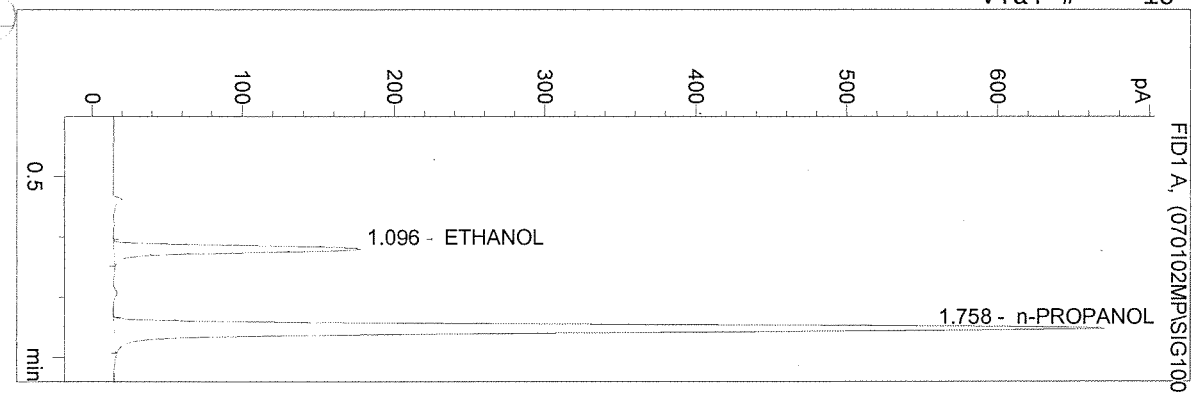


n-PROPANOL 1.000 mg/L

C:\HPCHEM\1\METHODS\BLDALCO3.M
7/1/02 1:29:12 PM
Instrument 3
DB-ALC1

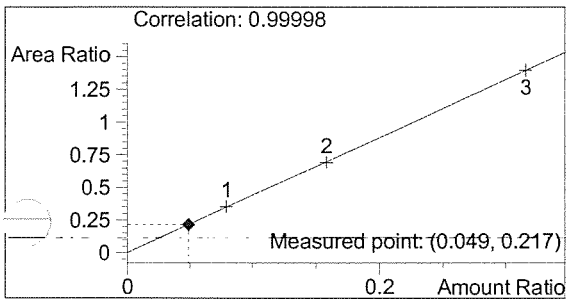
02021 0.04 qa
m pemberton

vial # 18

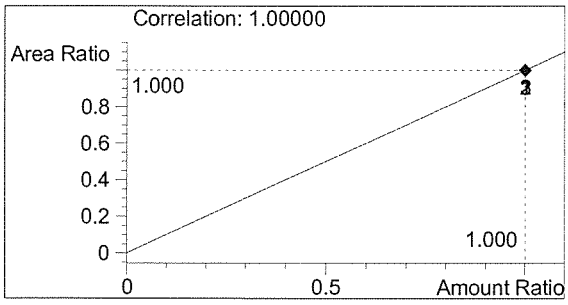


#	Compound	Area	RT
1	ETHANOL	653	1.096
2	n-PROPANOL	3014	1.758

Totals:



ETHANOL 0.049 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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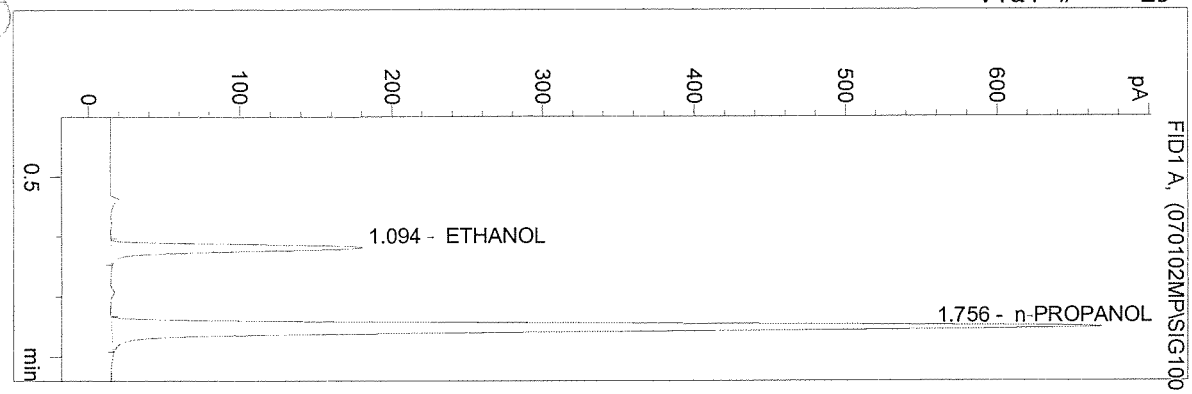
7/1/02 1:32:22 PM
Instrument 3
DB-ALC1

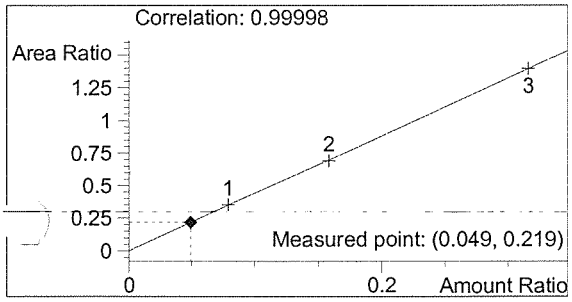
02021 0.04 qa
m pemberton

vial # 19

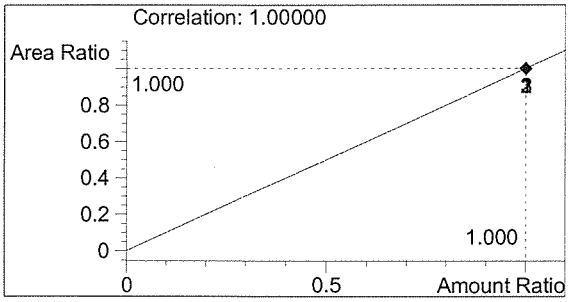


#	Compound	Area	RT
1	ETHANOL	658	1.094
2	n-PROPANOL	3007	1.756

Totals:



ETHANOL 0.049 mg/L



n-PROPANOL 1.000 mg/L

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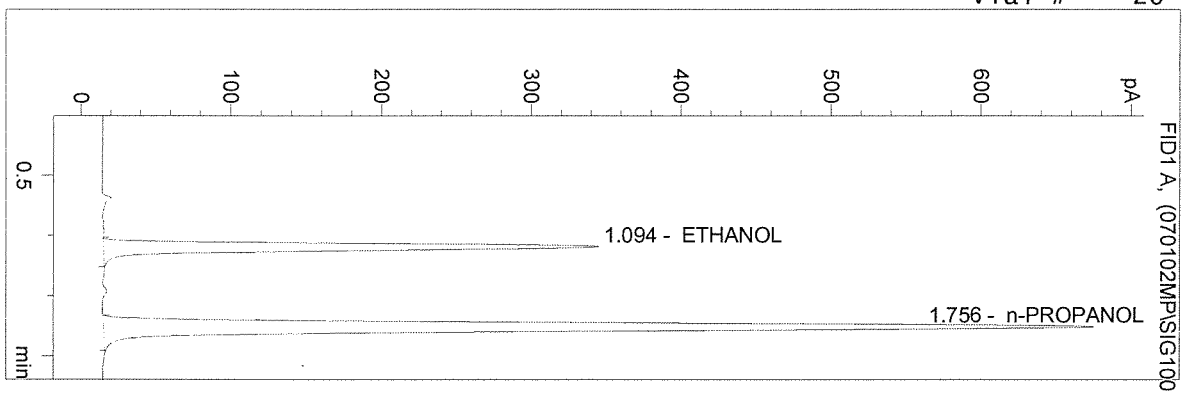
7/1/02 1:35:33 PM
Instrument 3
DB-ALC1

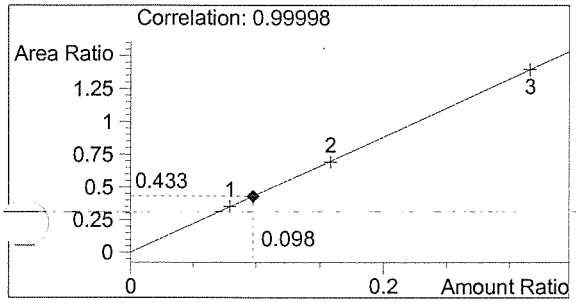
0.10 control
m pemberton

vial # 20

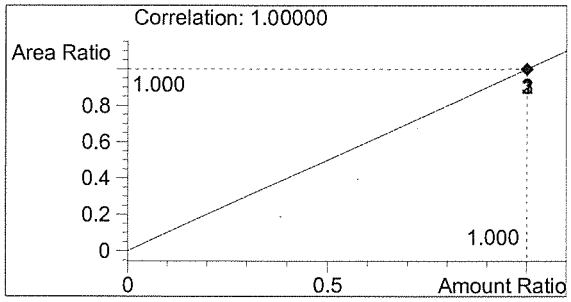


#	Compound	Area	RT
1	ETHANOL	1311	1.094
2	n-PROPANOL	3032	1.756

Totals:



ETHANOL 0.098 mg/L



n-PROPANOL 1.000 mg/L

Calibration Table

ETOH CALIBRATION

Calib. Data Modified : Monday, July 01, 2002 12:45:55 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 0.200 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 0.200 %
Abs. Non-ref. Window : 0.050 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : Floating Average New 99%
Average Retention Time: Floating Average New 99%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100ml]	Name
1	1.00000	n-PROPANOL

Signal 1: FID1 A,

RetTime [min]	Sig	Lvl	Amount [g/100ml]	Area	Amt/Area	Ref	Grp	Name
1.095	1	1	7.90000e-2	1063.88452	7.42562e-5	1		ETHANOL
		2	1.58000e-1	2089.72949	7.56079e-5			
		3	3.16000e-1	4155.36182	7.60463e-5			
1.757	1	1	1.00000	3011.59131	3.32050e-4	I1		n-PROPANOL
		2	1.00000	3012.62744	3.31936e-4			
		3	1.00000	2975.41260	3.36088e-4			

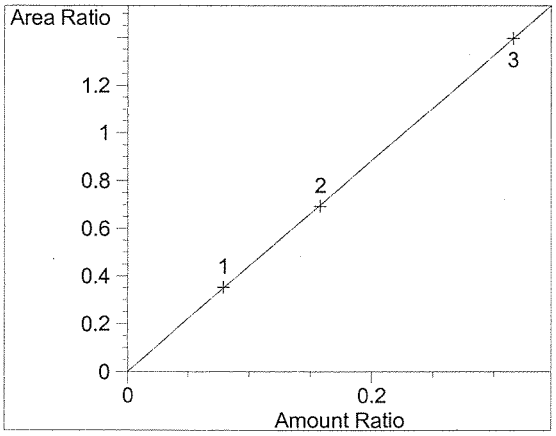
Peak Sum Table

No Entries in table

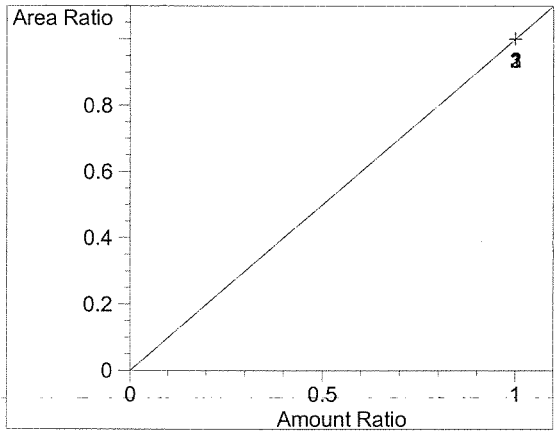
==========

Calibration Curves

==========



ETHANOL at exp. RT: 1.095
FID1 A,
Correlation: 0.99998
Residual Std. Dev.: 0.00426
Formula: y = mx + b
m: 4.41337
b: 7.23340e-4
x: Amount Ratio
y: Area Ratio



n-PROPANOL at exp. RT: 1.757
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

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WASHINGTON STATE TOXICOLOGY LABORATORY

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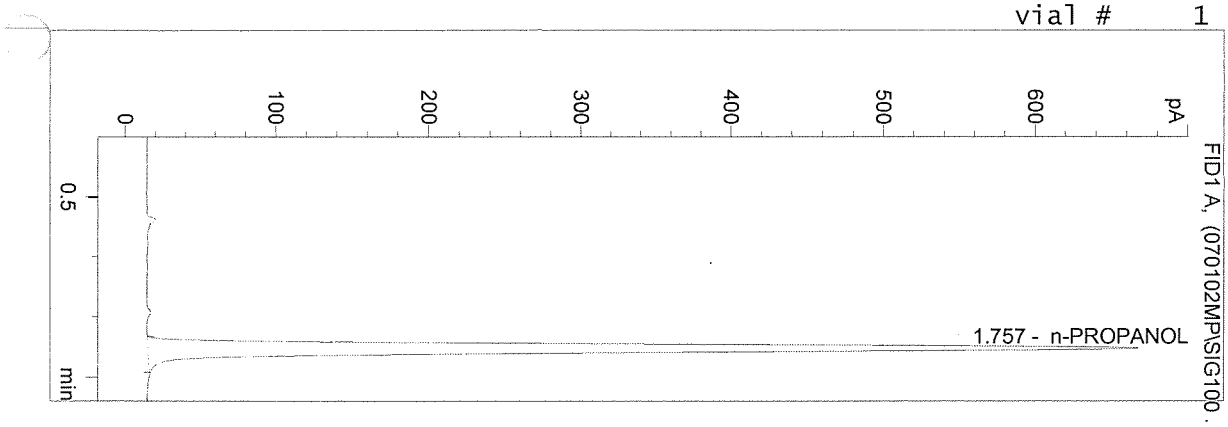
7/1/02 12:34:12 PM
Instrument 3
DB-ALC1

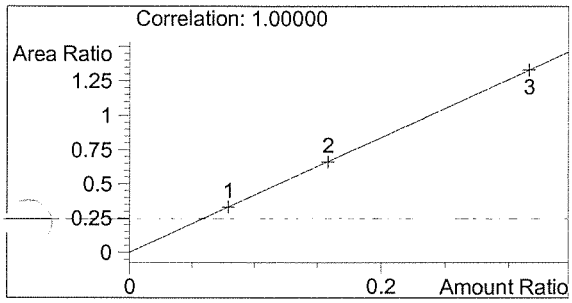
BLANK
m pemberton

vial # 1

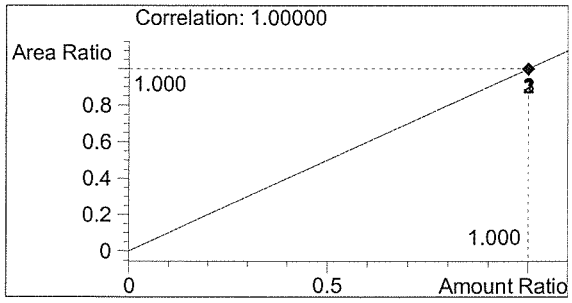


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3012	1.757

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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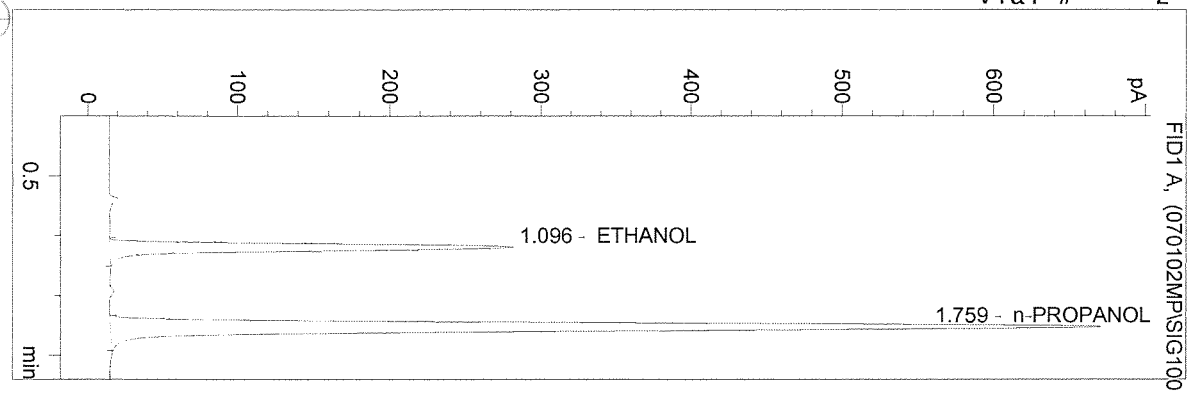
7/1/02 12:37:22 PM
Instrument 3
DB-ALC1

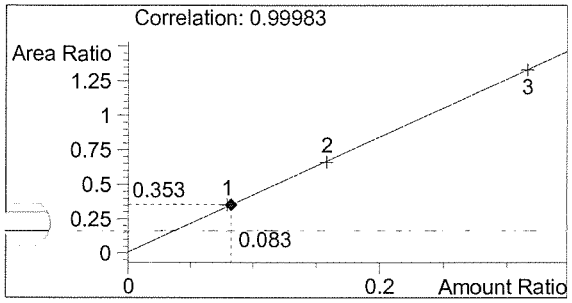
0.079 CALIBRATOR
m pemberton

vial # 2

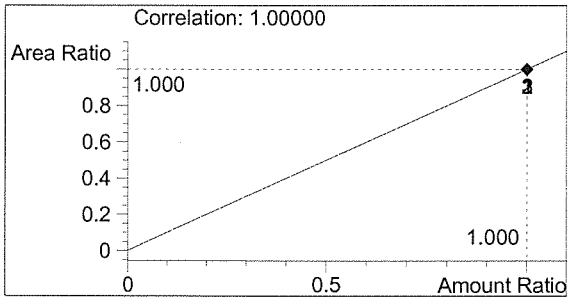


#	Compound	Area	RT
1	ETHANOL	1064	1.096
2	n-PROPANOL	3012	1.759

Totals:



ETHANOL 0.083 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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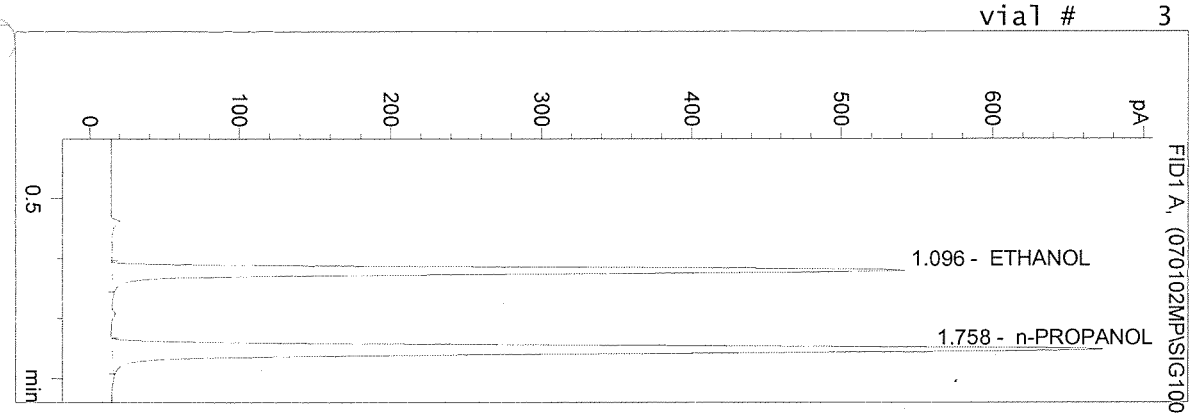
7/1/02 12:40:32 PM
Instrument 3
DB-ALC1

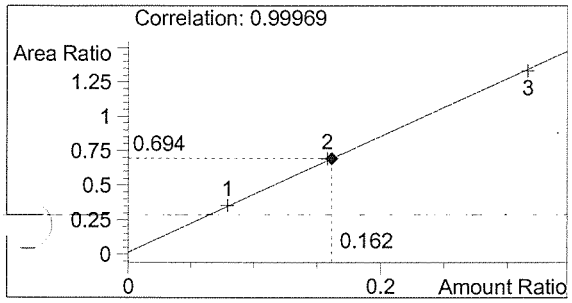
0.158 CALIBRATOR
m pemberton

vial # 3

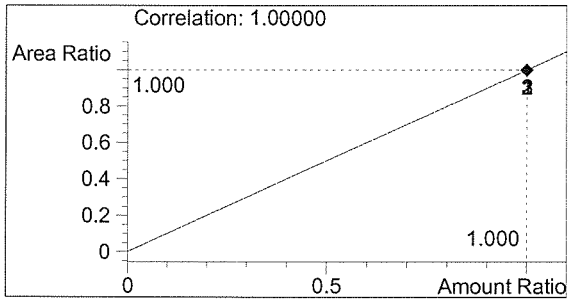


#	Compound	Area	RT
1	ETHANOL	2090	1.096
2	n-PROPANOL	3013	1.758

Totals:



ETHANOL 0.162 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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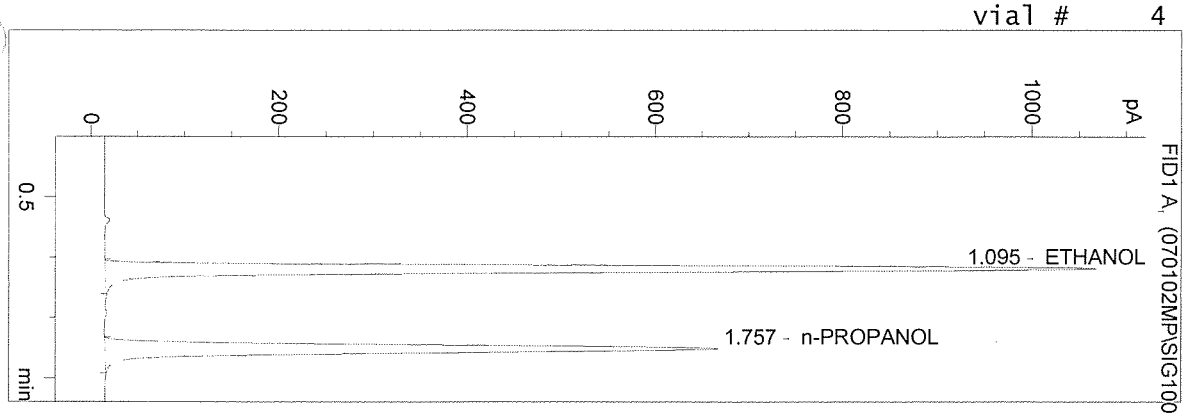
7/1/02 12:43:42 PM
Instrument 3
DB-ALC1

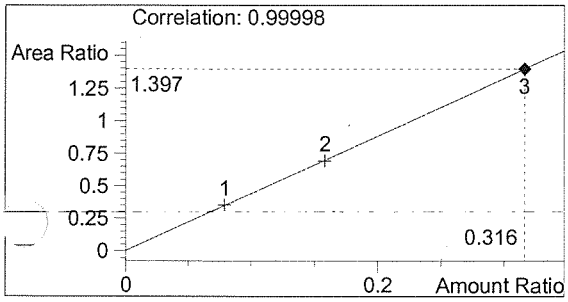
0.316 CALIBRATOR
m pemberton

vial # 4

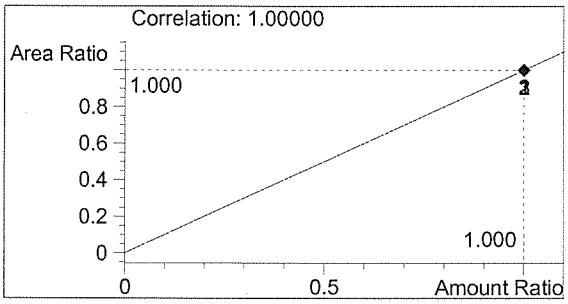


#	Compound	Area	RT
1	ETHANOL	4155	1.095
2	n-PROPANOL	2975	1.757

Totals:



ETHANOL 0.316 mg/L



n-PROPANOL 1.000 mg/L

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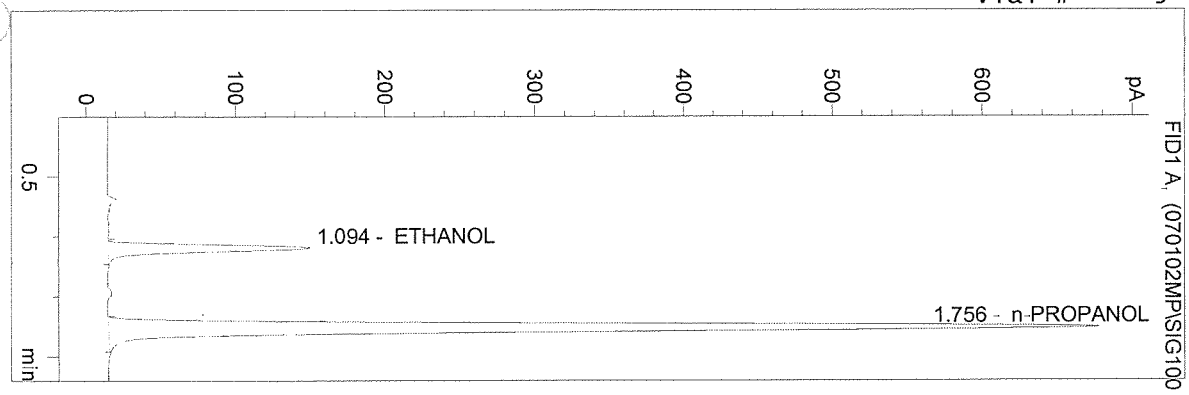
7/1/02 12:47:10 PM
Instrument 3
DB-ALC1

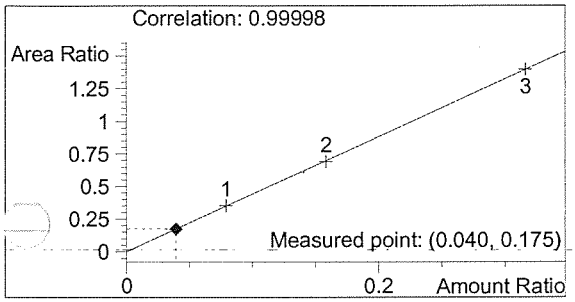
0.04 control
m pemberton

vial # 5

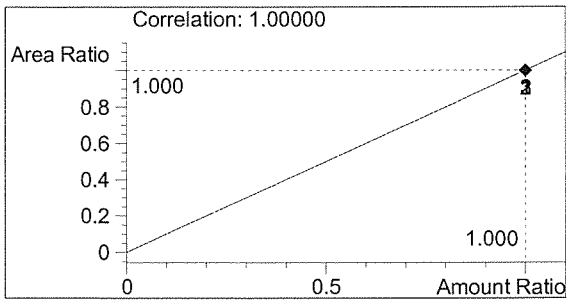


#	Compound	Area	RT
1	ETHANOL	532	1.094
2	n-PROPANOL	3032	1.756

Totals:



ETHANOL 0.040 mg/L



n-PROPANOL 1.000 mg/L

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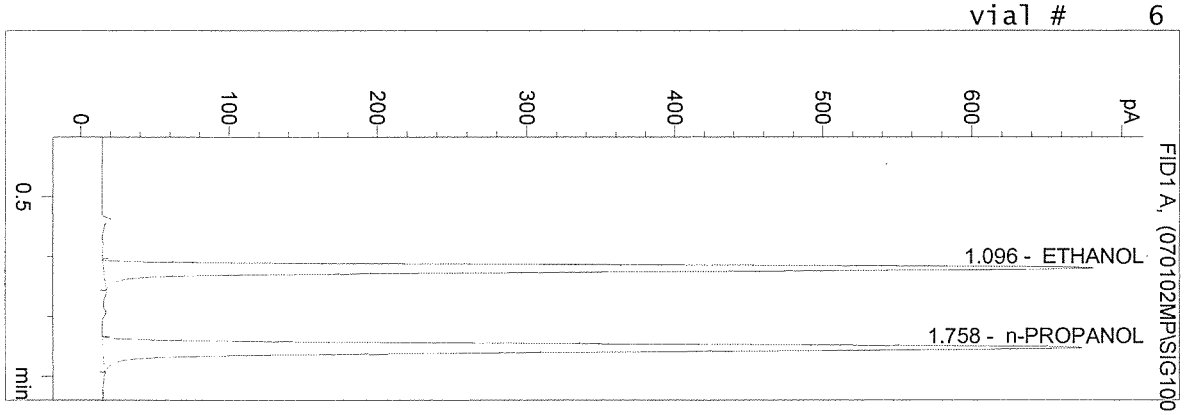
Instrument 3
DB-ALC1

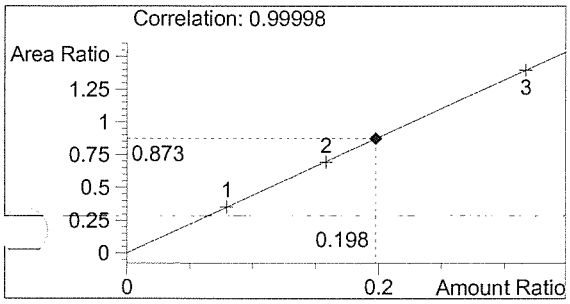
0.20 control
m pemberton

vial # 6

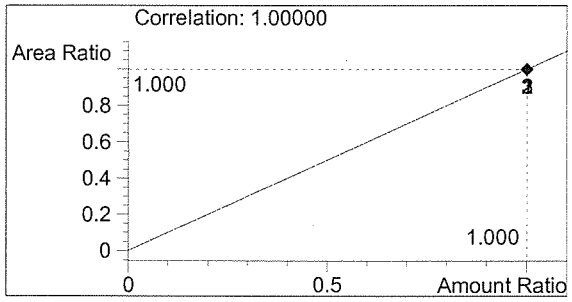


#	Compound	Area	RT
1	ETHANOL	2643	1.096
2	n-PROPANOL	3026	1.758

Totals:



ETHANOL 0.198 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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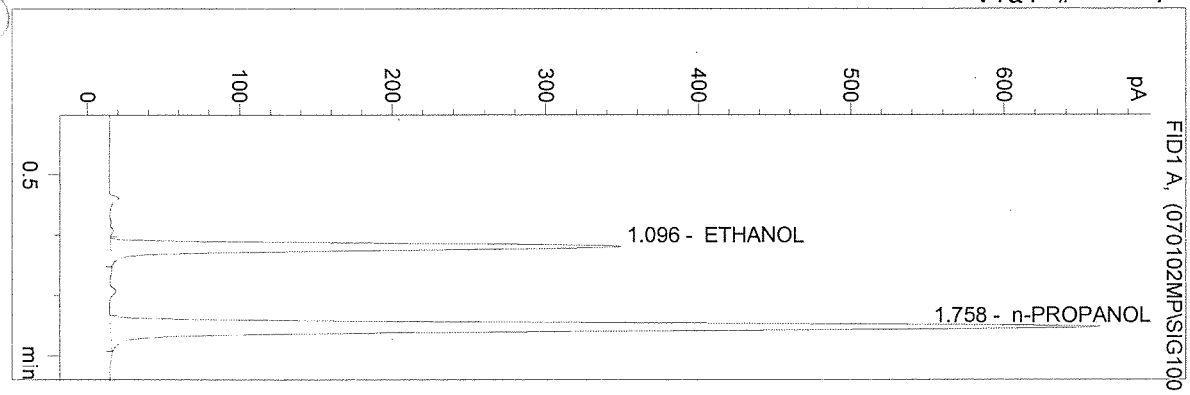
Instrument 3
DB-ALC1

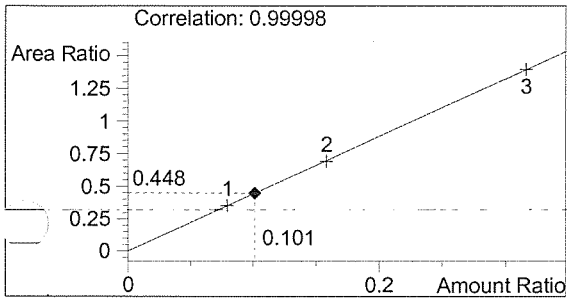
0.10 control
m pemberton

vial # 7

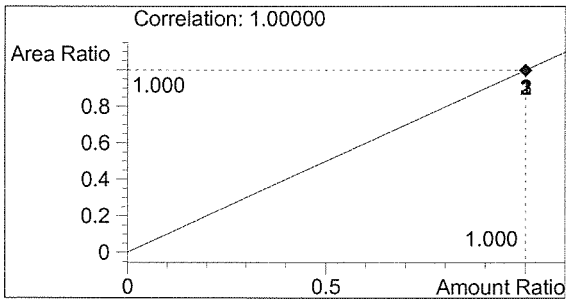


#	Compound	Area	RT
1	ETHANOL	1345	1.096
2	n-PROPANOL	3001	1.758

Totals:



ETHANOL 0.101 mg/L



n-PROPANOL 1.000 mg/L

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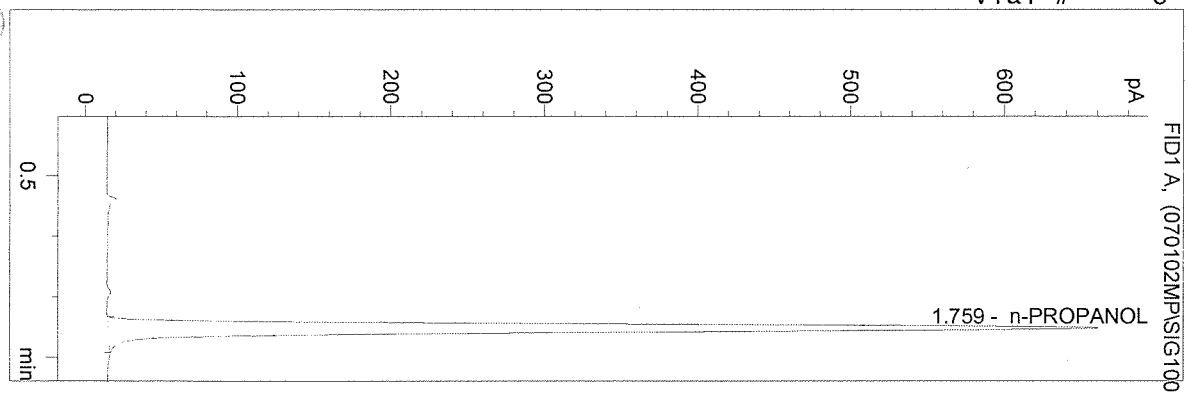
Instrument 3
DB-ALC1

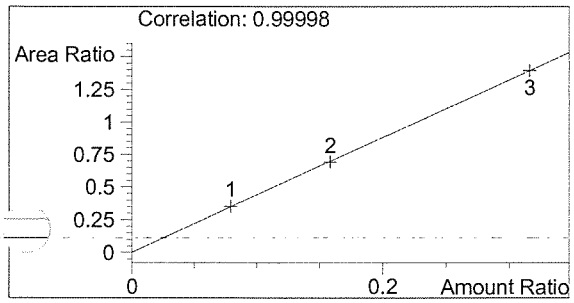
blk
m pemberton

vial # 8

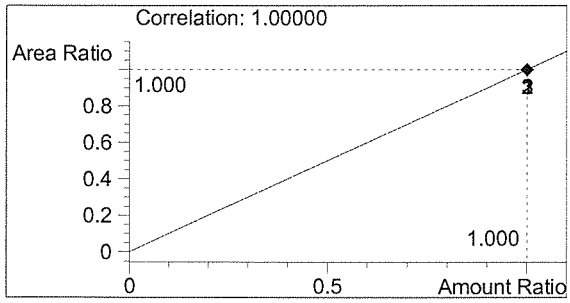


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	2953	1.759

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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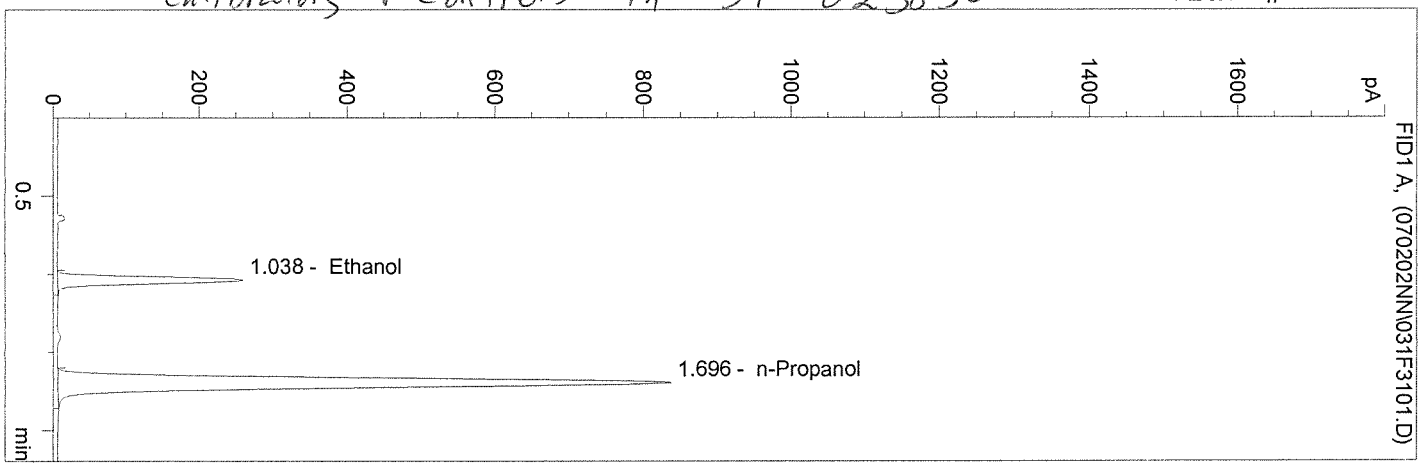
7/2/02 4:47:18 PM
Instrument 1
ALC1

QA 02021
Naziha Nuwayhid, PhD

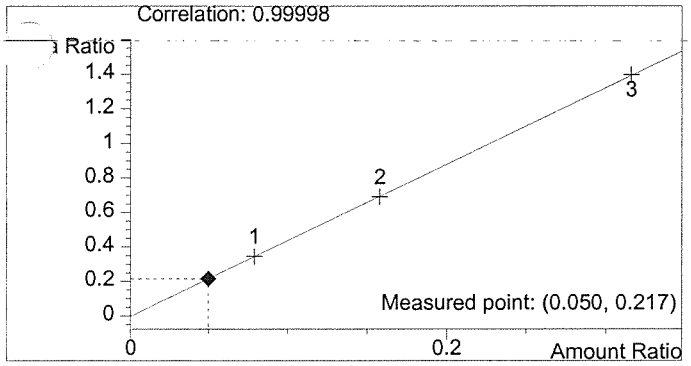
Calibrators & Controls in ST 023830

vial # 31

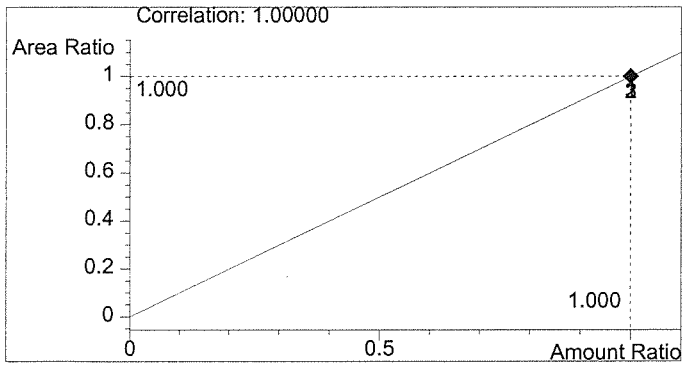


#	Compound	Area	RT
1	Ethanol	746	1.038
2	n-Propanol	3446	1.696

Totals:



Ethanol 0.050 g/100ml



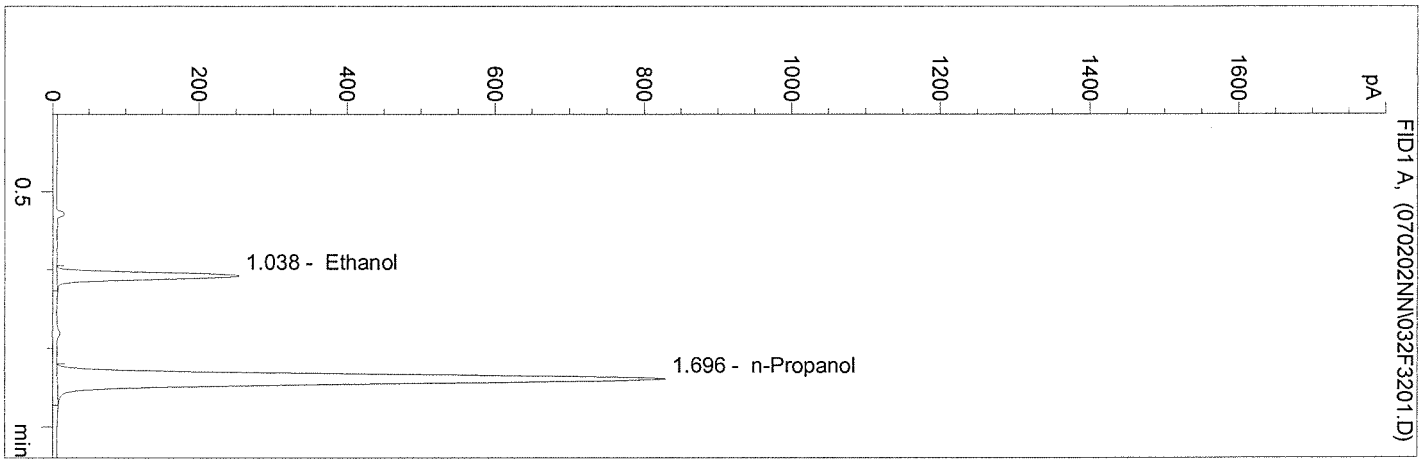
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
7/2/02 4:50:01 PM
Instrument 1
-ALC1

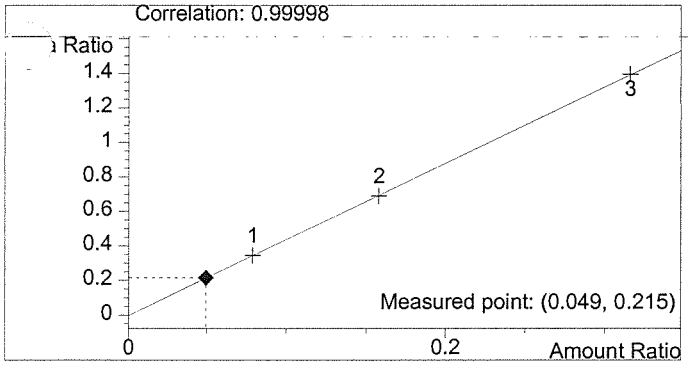
QA 02021
Naziha Nuwayhid, PhD

vial # 32

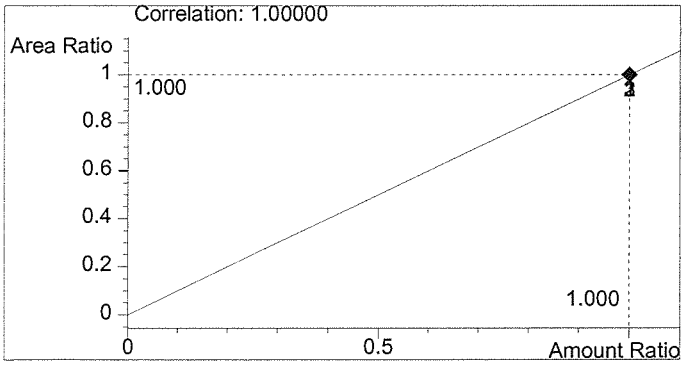


#	Compound	Area	RT
1	Ethanol	739	1.038
2	n-Propanol	3436	1.696

Totals:



Ethanol 0.049 g/100ml



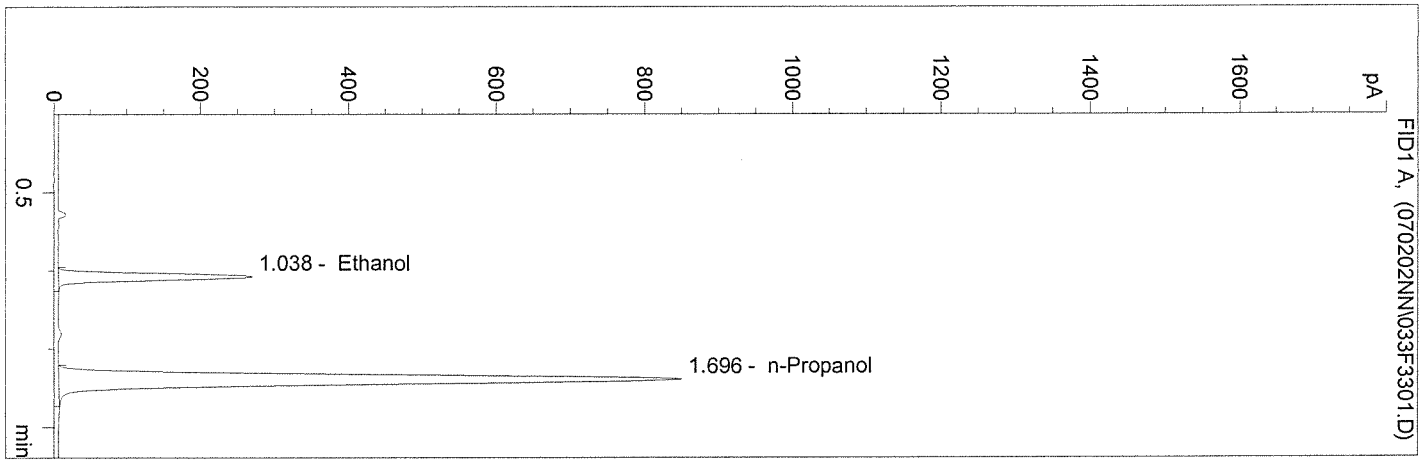
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
7/2/02 4:52:39 PM
Instrument 1
-ALC1

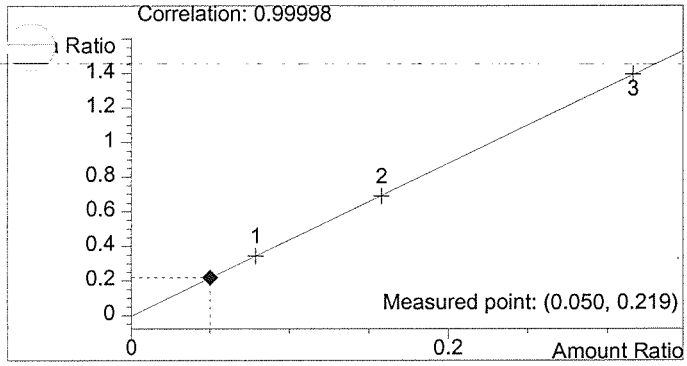
QA 02021
Naziha Nuwayhid, PhD

vial # 33

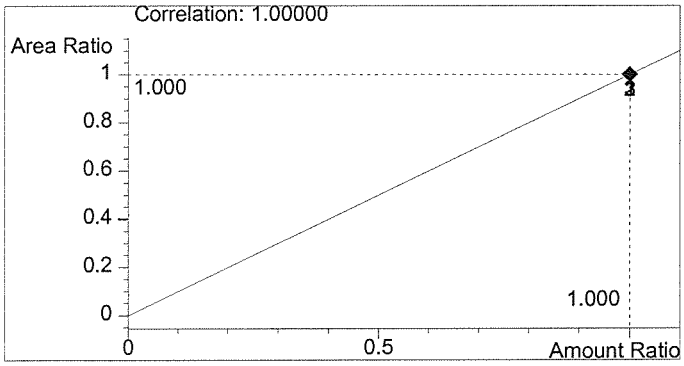


#	Compound	Area	RT
1	Ethanol	766	1.038
2	n-Propanol	3500	1.696

Totals:



Ethanol 0.050 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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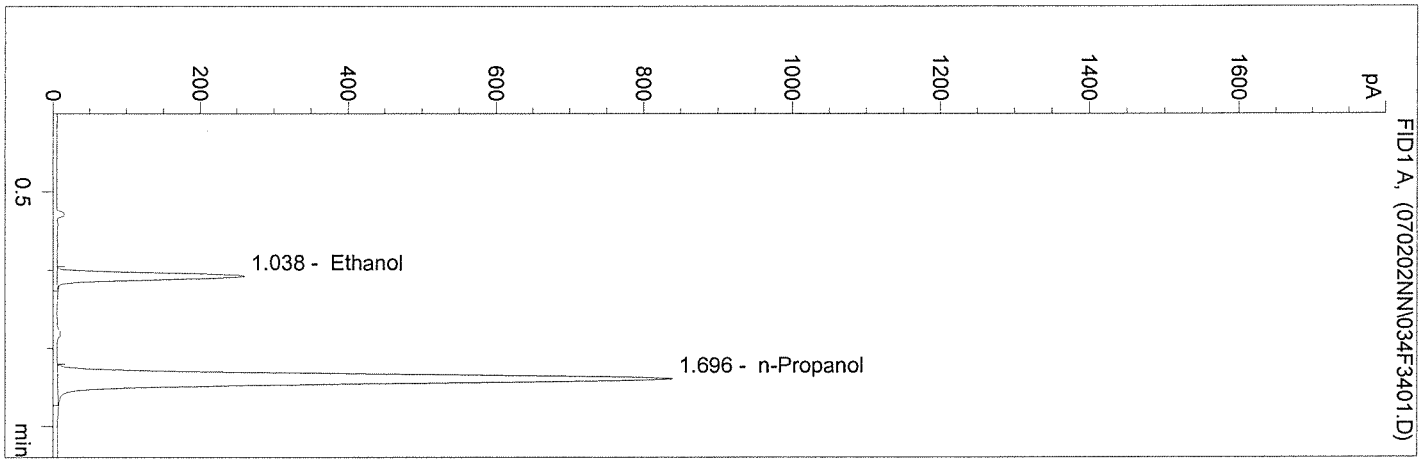
Instrument 1
ALC1

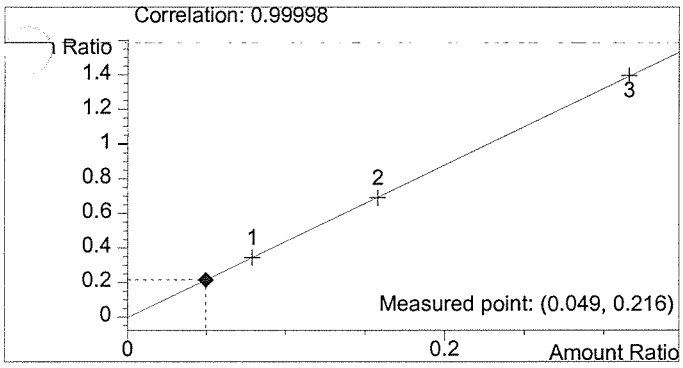
QA 02021
Naziha Nuwayhid, PhD

vial # 34

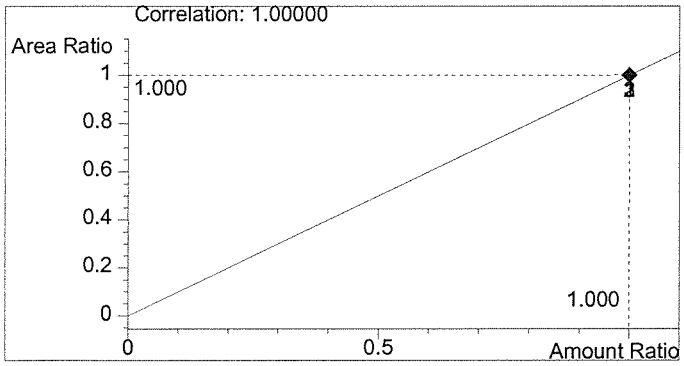


#	Compound	Area	RT
1	Ethanol	745	1.038
2	n-Propanol	3456	1.696

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
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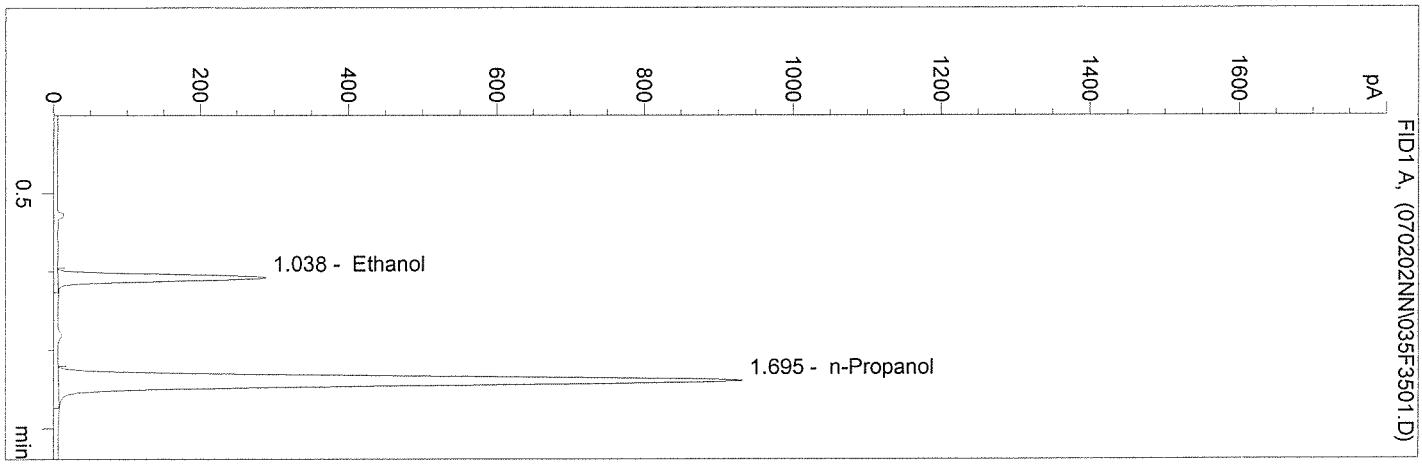
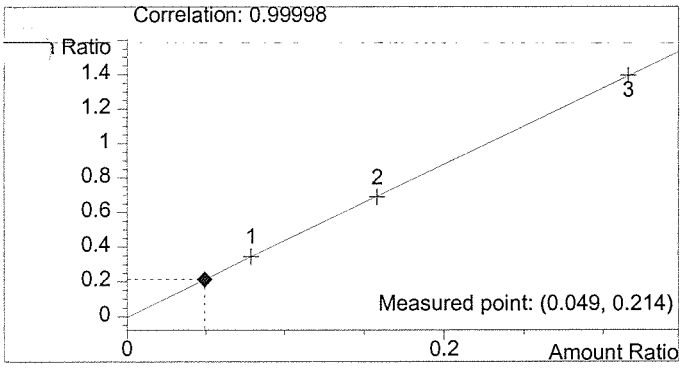
QA 02021
Naziha Nuwayhid, PhD

vial # 35

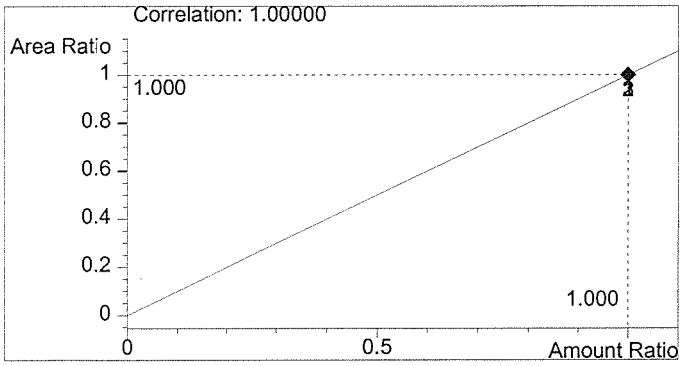


#	Compound	Area	RT
1	Ethanol	818	1.038
2	n-Propanol	3825	1.695

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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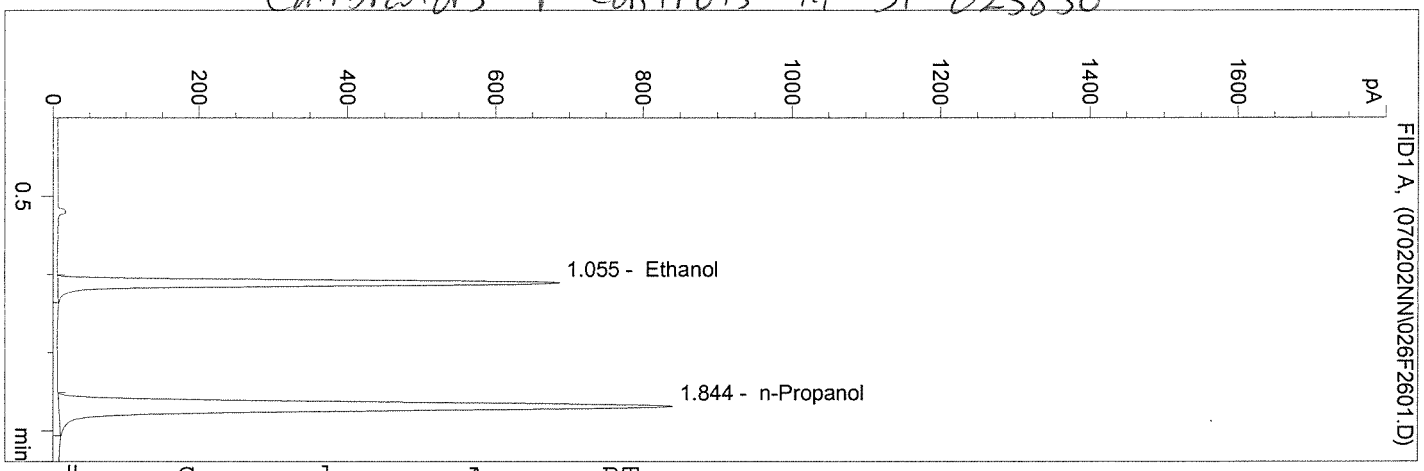
QA 02022
Naziha Nuwayhid, PhD

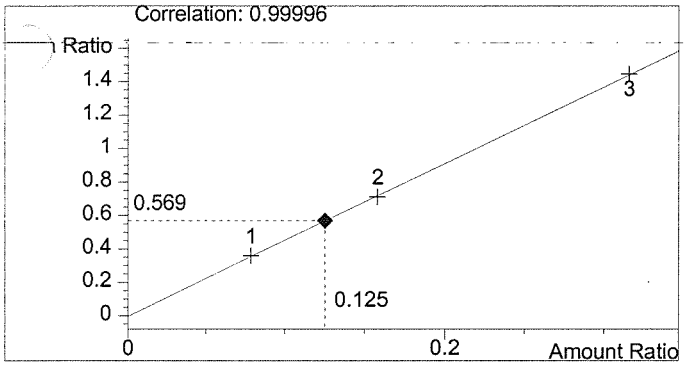
vial # 26

Calibrators & Controls in ST 023830

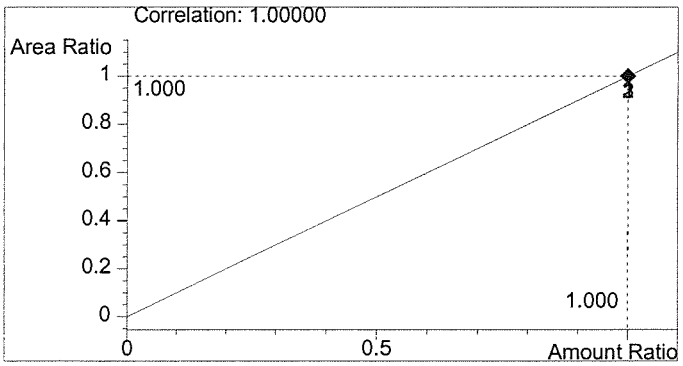


#	Compound	Area	RT
1	Ethanol	1832	1.055
2	n-Propanol	3220	1.844

Totals:



Ethanol 0.125 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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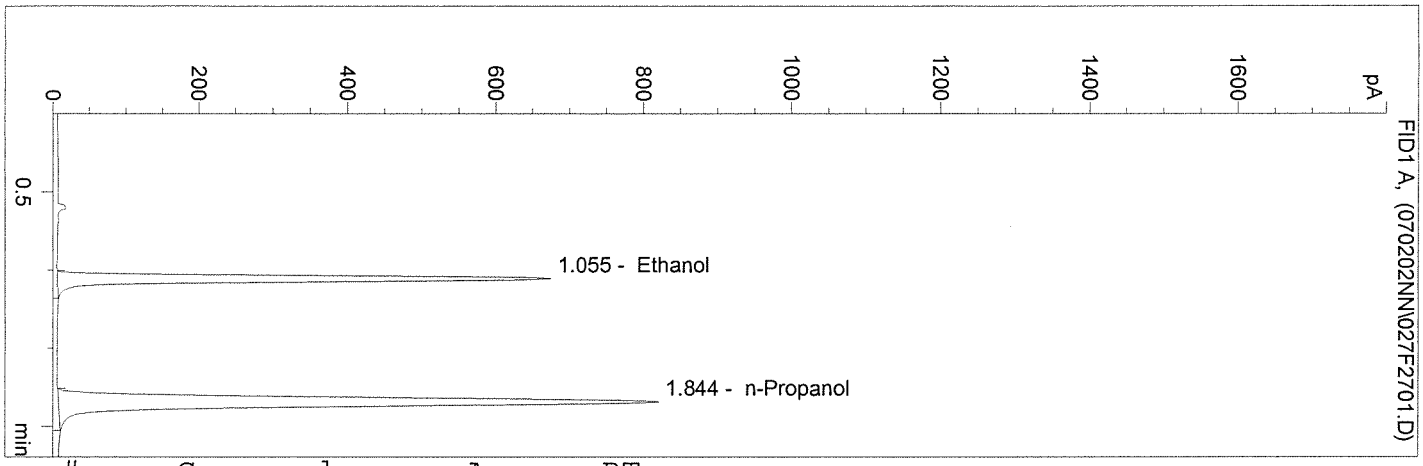
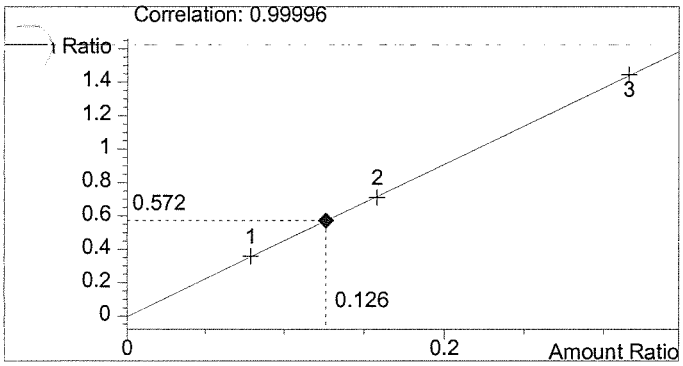
QA 02022
Naziha Nuwayhid, PhD

vial # 27

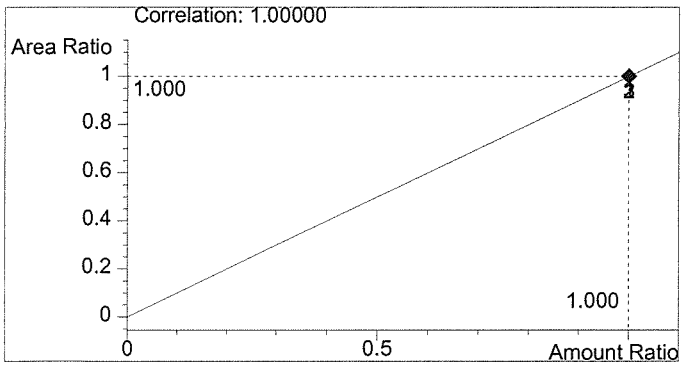


#	Compound	Area	RT
1	Ethanol	1798	1.055
2	n-Propanol	3142	1.844

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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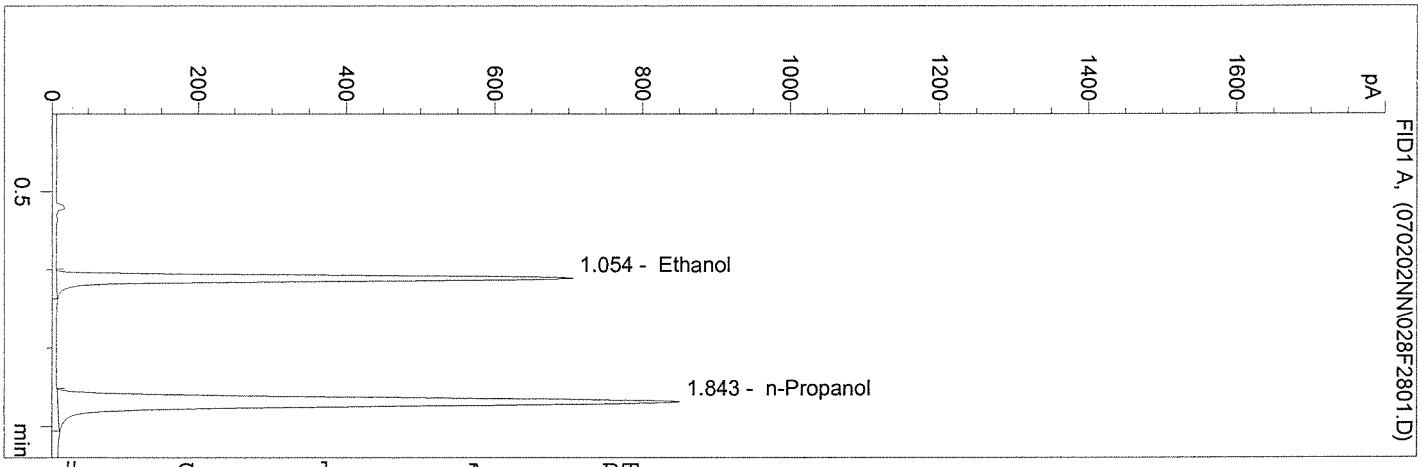
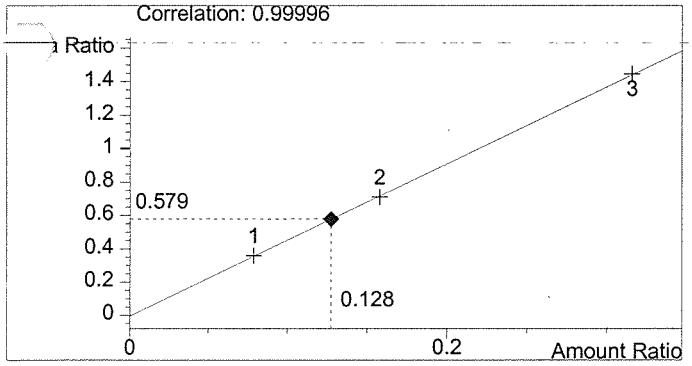
QA 02022
Naziha Nuwayhid, PhD

vial # 28

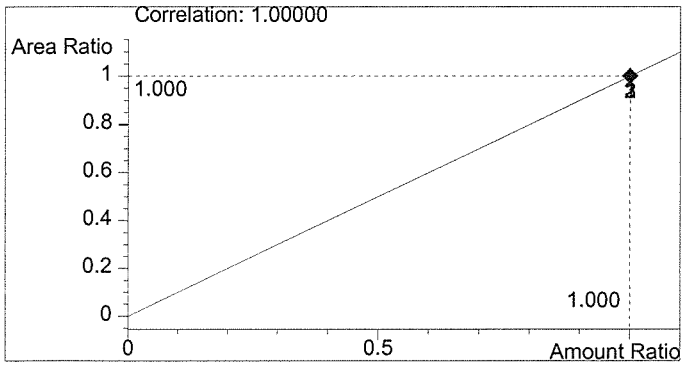


#	Compound	Area	RT
1	Ethanol	1884	1.054
2	n-Propanol	3253	1.843

Totals:



Ethanol 0.128 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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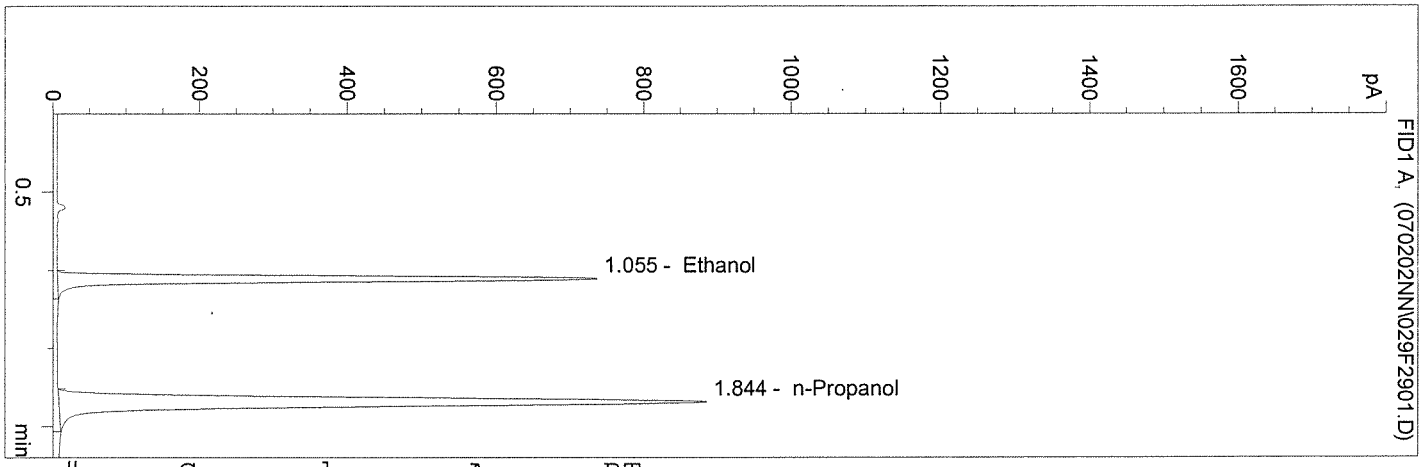
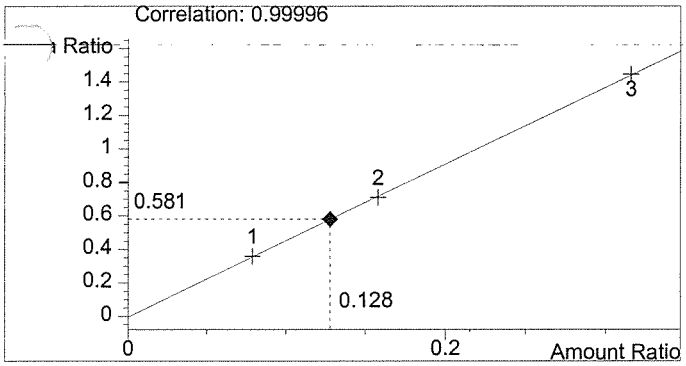
QA 02022
Naziha Nuwayhid, PhD

vial # 29

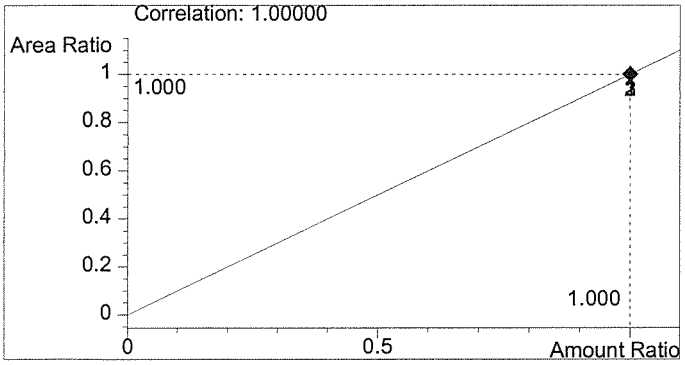


#	Compound	Area	RT
1	Ethanol	1971	1.055
2	n-Propanol	3394	1.844

Totals:



Ethanol 0.128 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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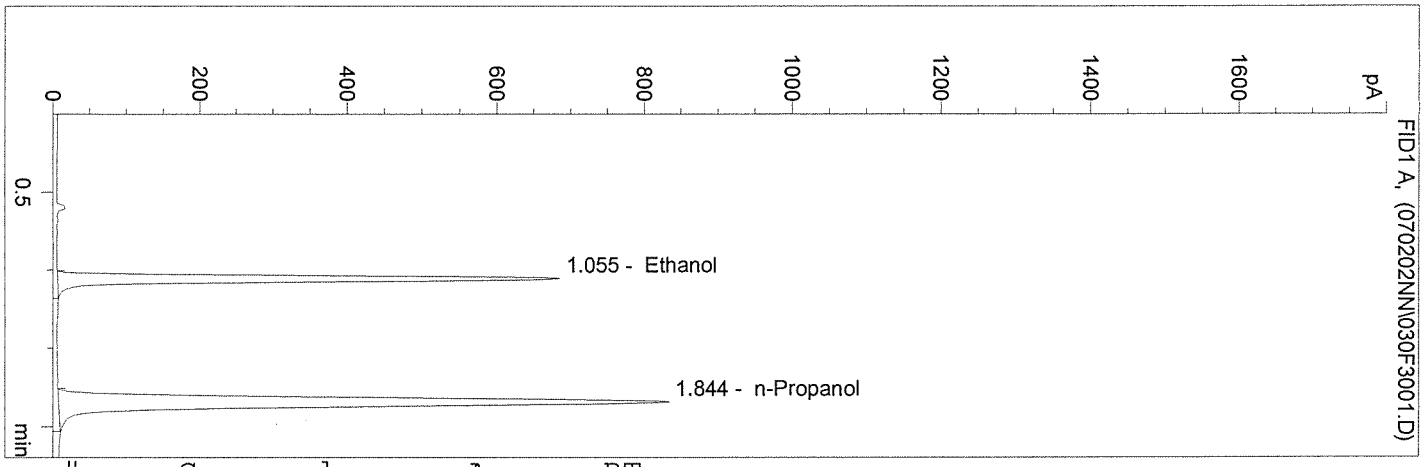
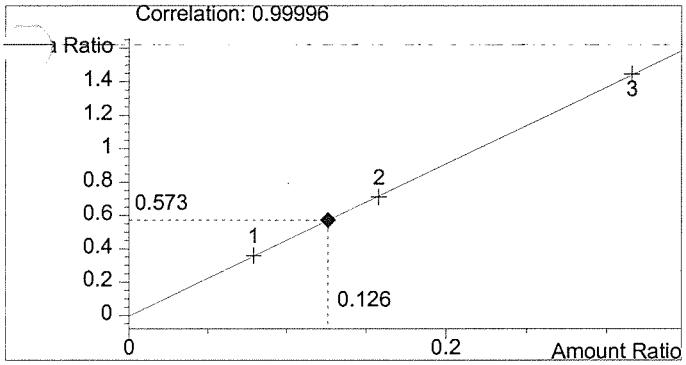
QA 02022
Naziha Nuwayhid, PhD

vial # 30

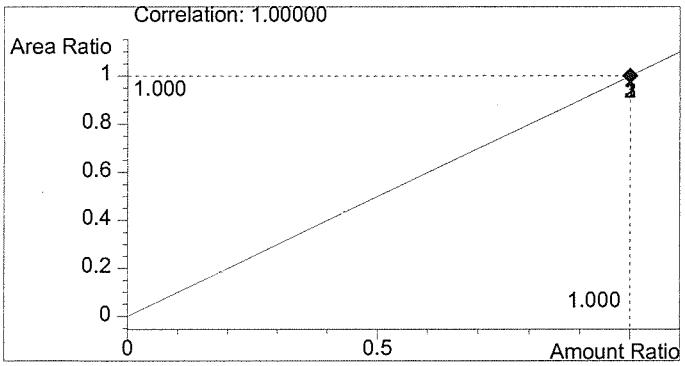


#	Compound	Area	RT
1	Ethanol	1827	1.055
2	n-Propanol	3191	1.844

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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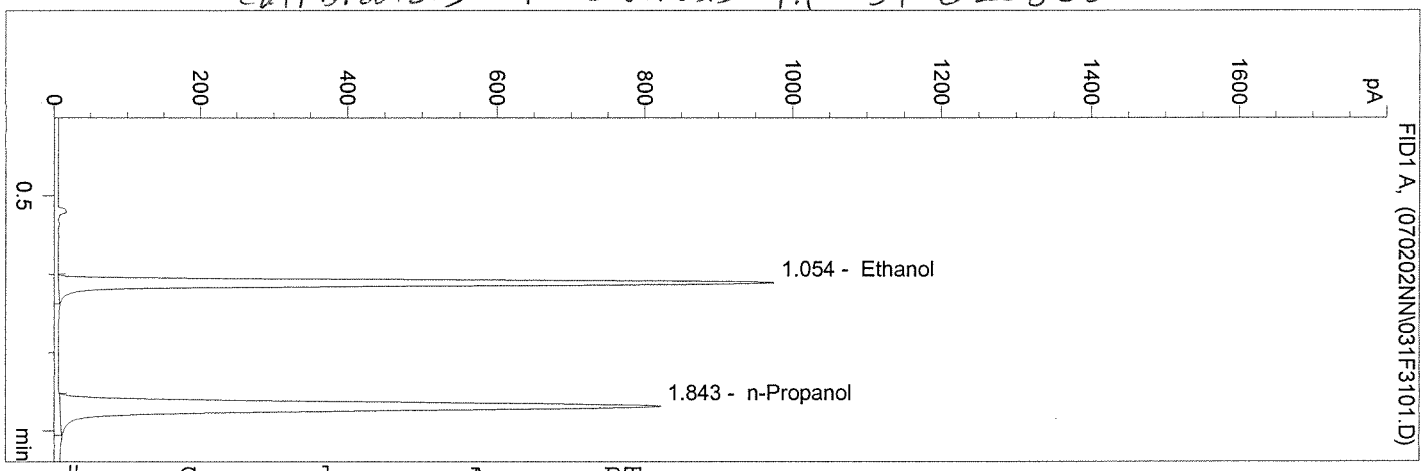
QA 02023
Naziha Nuwayhid, PhD

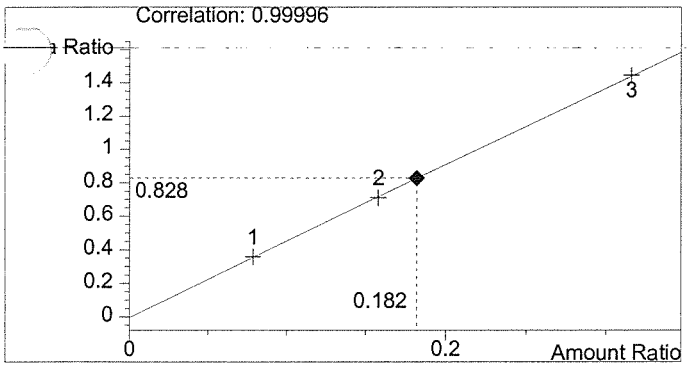
Calibrators & Controls in ST 023830

vial # 31

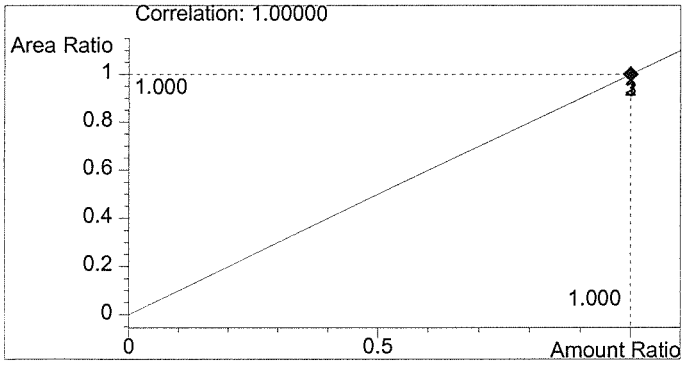


#	Compound	Area	RT
1	Ethanol	2609	1.054
2	n-Propanol	3149	1.843

Totals:



Ethanol 0.182 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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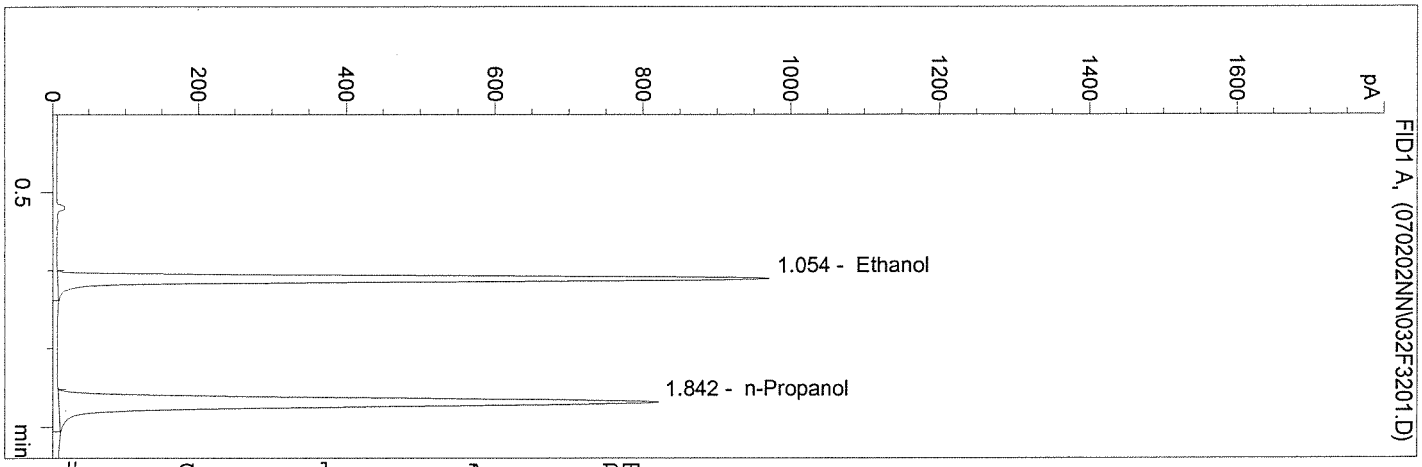
Instrument 2
ALC1

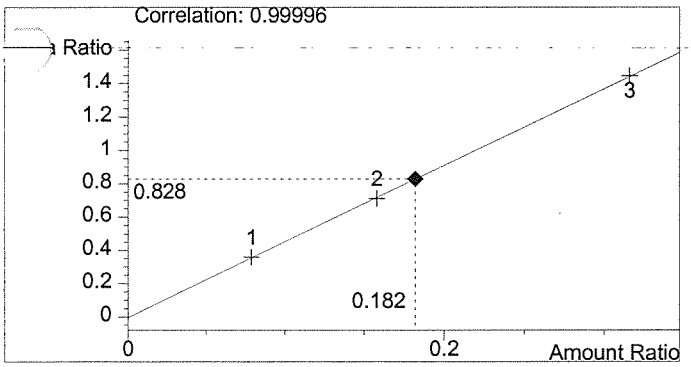
QA 02023
Naziha Nuwayhid, PhD

vial # 32

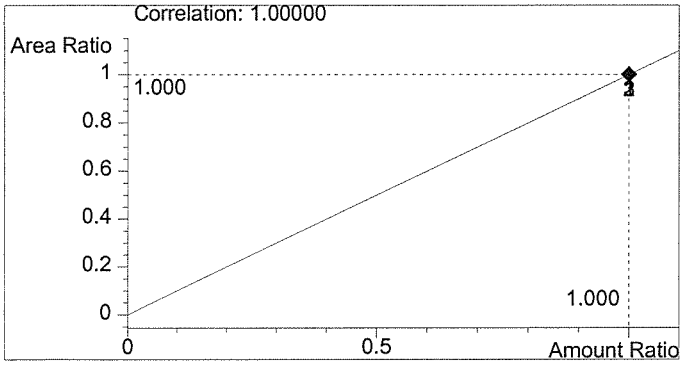


#	Compound	Area	RT
1	Ethanol	2600	1.054
2	n-Propanol	3140	1.842

Totals:



Ethanol 0.182 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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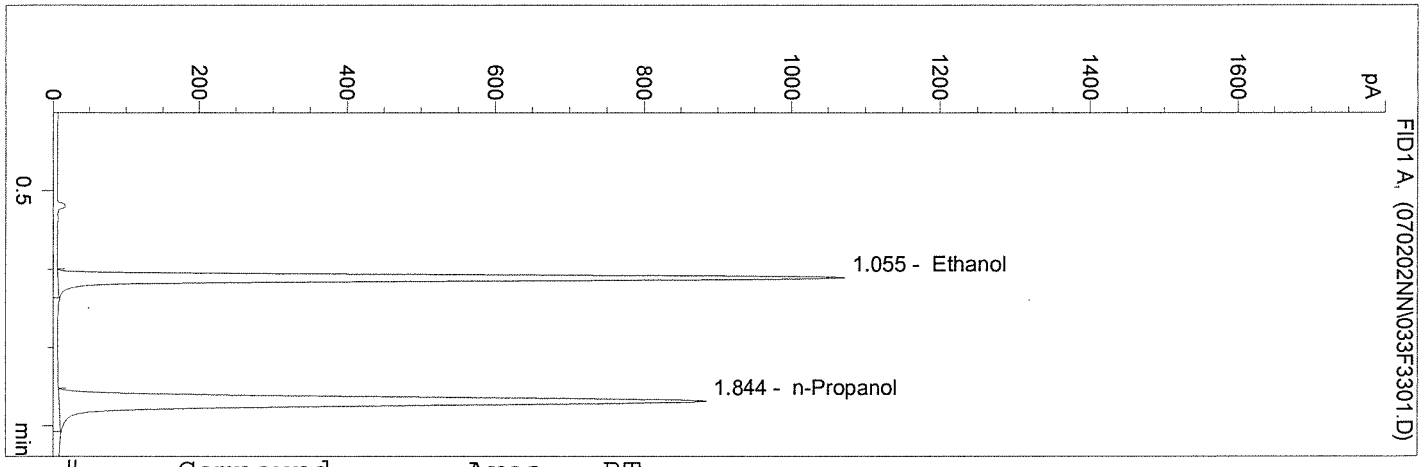
Instrument 2
ALC1

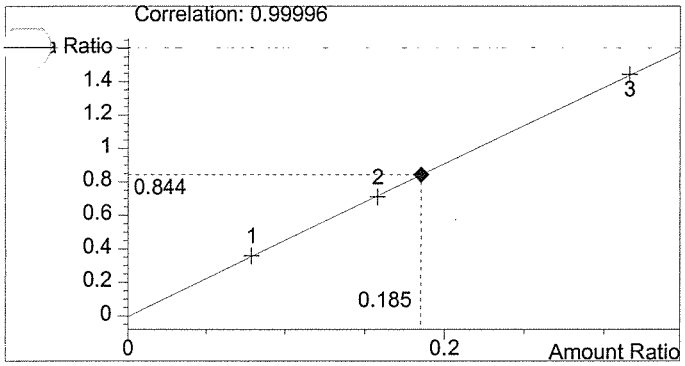
QA 02023
Naziha Nuwayhid, PhD

vial # 33

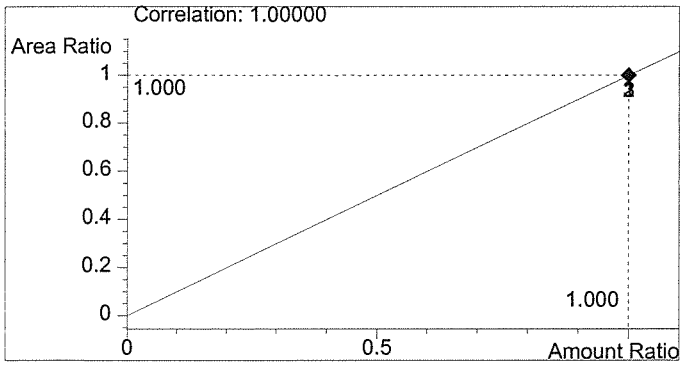


#	Compound	Area	RT
1	Ethanol	2858	1.055
2	n-Propanol	3387	1.844

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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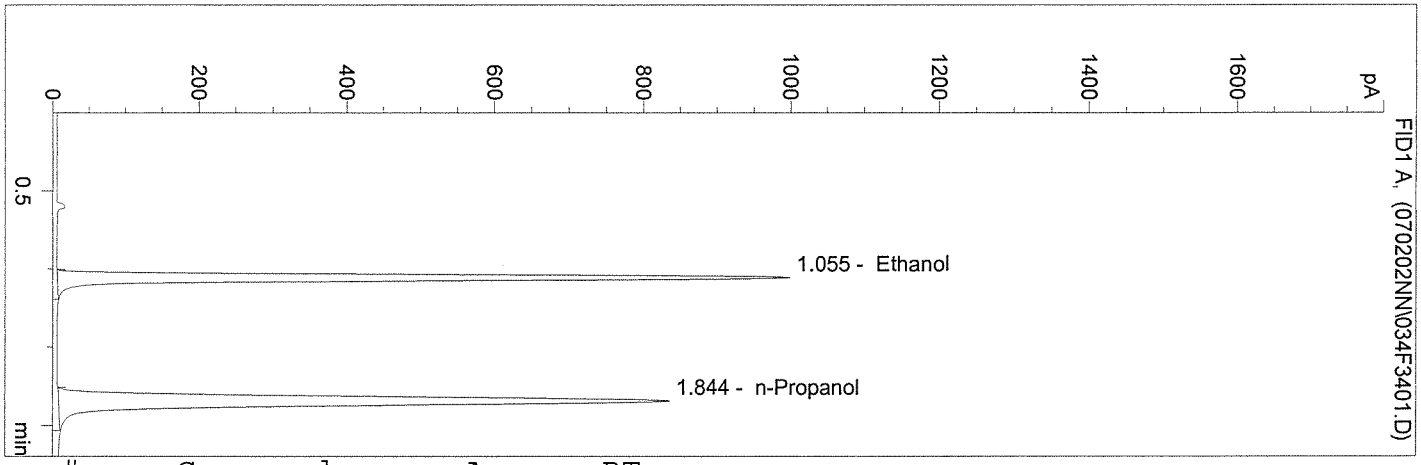
Instrument 2
ALC1

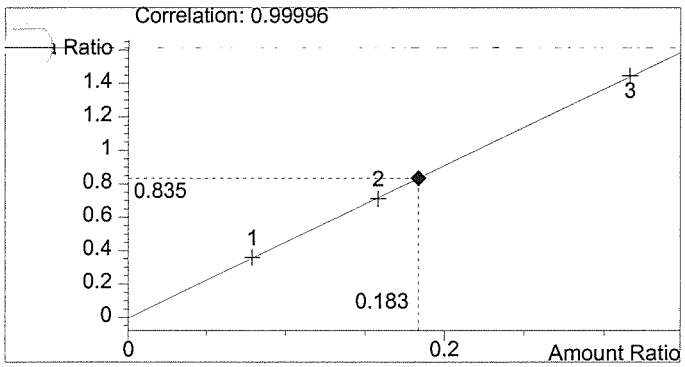
QA 02023
Naziha Nuwayhid, PhD

vial # 34

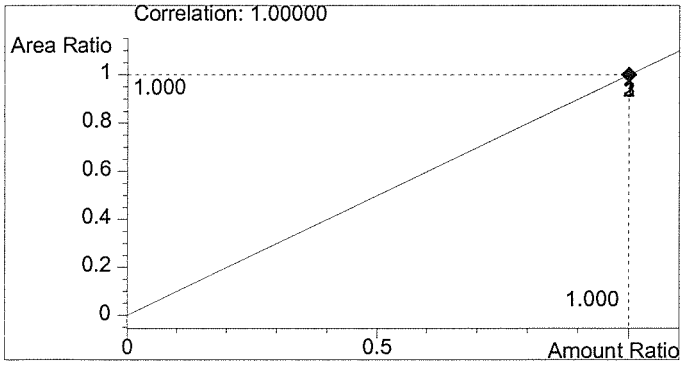


#	Compound	Area	RT
1	Ethanol	2669	1.055
2	n-Propanol	3198	1.844

Totals:



Ethanol 0.183 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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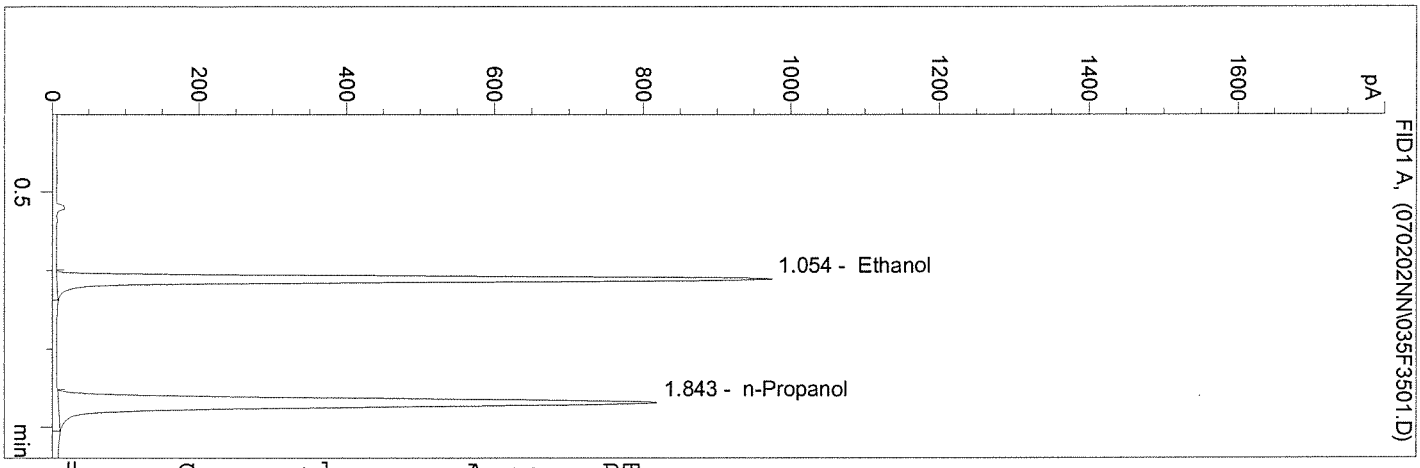
Instrument 2
-ALC1

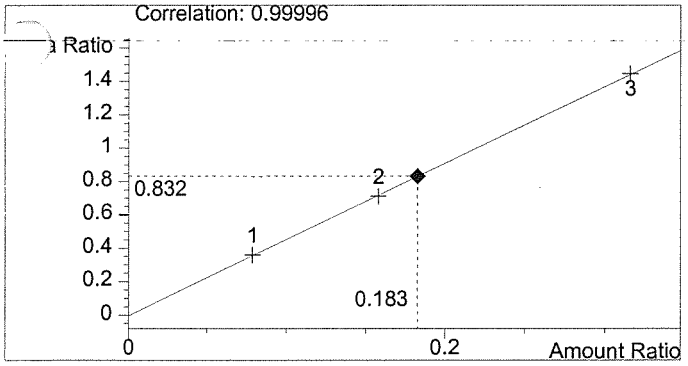
QA 02023
Naziha Nuwayhid, PhD

vial # 35

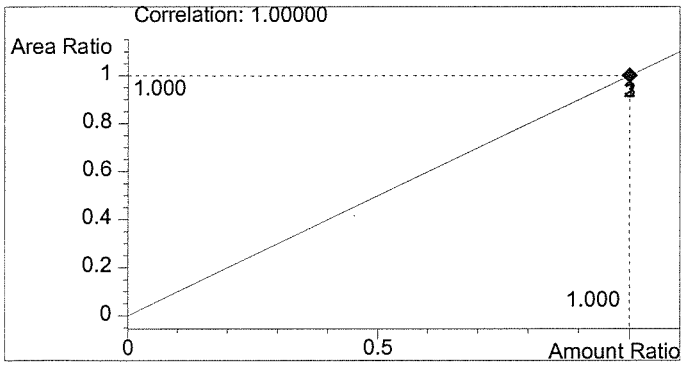


#	Compound	Area	RT
1	Ethanol	2607	1.054
2	n-Propanol	3135	1.843

Totals:



Ethanol 0.183 g/100ml



n-Propanol 1.000 g/100ml