To: File

From: Jayne E. Thatcher

Subject: Opinion of inconsistencies surrounding solution batches 02018 and 02019

Date: January 6, 2008

MEMO

I am a Forensic Toxicologist for the Washington State Patrol. I have been employed with the agency since June 1998 and employed at the Washington State Toxicology Laboratory since June 2000.

My duties in 2002 involved the preparation, sampling, and preparation of documentation regarding the sampling of Quality Assurance Procedure Solutions and Simulator External Standard Solutions. I have a Bachelors of Science in Cell and Molecular Biology and minors in Chemistry and Microbiology from the University of Washington. I am presently a graduate student in the Department of Pharmaceutics, University of Washington. However, I have maintained a part time position with the WSTL. I am currently filling in as the Acting Quality Assurance Manager.

On June 25, 2002 I aliquoted and tested both Simulator Solution 02018 and QAP Solution 02019.

On December 27, 2007 I received an e-mail from Trooper Ken Denton of the WSP breath test section requesting I call him. I didn't receive this e-mail until I was coming home from school that evening and tried to return his call but was unable to get a connection and decided to try back in the morning.

A few hours later I noticed an e-mail from Dr. Logan requesting I call him, which I did. He informed me that one of the (QA solutions or Sim Solutions) I had certified listed values in the database that did not match the values listed on the chromatograms. He asked if I recalled why this was the case, and I informed him I didn't. I suggested that we pull the case folder that would have contained the sequence logs, standards and controls. On occasion I would run the simulator solution on both instruments, even though data for only one instrument is collected. Therefore, I proposed that I may have entered the results from one instrument, but filed the chromatograms from the other instrument. I apologized for having possibly made an error, and requested that he let me know what the outcome of the search revealed.

On the morning of December 28th I again attempted to contact Trooper Denton, first around 7:00am at the breath test section but the phone was not answered. Around 7:30am I reached him on his cell phone. I informed him that Dr. Logan had informed me of the discrepancy and I informed Trooper Denton that I didn't recall what had occurred

and offered the same possible explanation as I had provided to Dr. Logan. He informed me he would be going to the toxicology lab later that morning to look into the matter.

Either Trooper Denton or Dr. Logan, I don't remember which, asked if I would had any notes that would explain why there was a discrepancy and I informed him that I did not.

That afternoon I received a voicemail from Dr. Logan and when I returned his call he informed me it was discovered I had analyzed a (QA solutions or Sim Solution) of the same concentration as the (QA solutions or Sim Solution) on the same date and at approximately the same time and that the values entered in the database for QA Solution 02019 matched the values on the chromatograms corresponding to Simulator Solution 02018 and vice versa. We agreed that I had likely entered the values incorrectly and that we would look at the data when I was in on Sunday, December 30th.

On December 30th Dr. Logan showed me the folders containing the data for batches 02018 and 02019. He showed me my chromatograms for the two batches and the values on the worksheets. It is my belief that when I entered the values into the filemaker database, I entered the 02019 values from instrument #1 into the database spreadsheet for batch 02018 and that I entered the 02018 values from instrument #2.

After reviewing the data I do not believe that I mislabeled my sequence because the values I entered into the 02018 spreadsheet, while well within the acceptable range, appear to be lower than all of the other data points. My results are the only data points less than 0.100%. The values I entered into the 02019 spreadsheet, which I believe should have been entered into the 02018 spreadsheet are consistent with the other values. I also would have made a note of the error and any corrective action on the chromatograms if I had knowingly switched the vials on the instrument/mislabeled the sequence, leading me to purposely enter the results from 02018 into 02019 and vice versa.

On the evening of January 4th I received an e-mail from Dr. Logan indicating I would likely need to testify in court.

On January 6th he again showed me the folders and suggested I review them and see if I could form an opinion as to what I did. Shortly after this, I spoke with Prosecutor Matt Anderson. I explained that I believe I may have switched the values for the two solutions when I entered the results into the database.

The following are the results of the data as it was sampled (chromatogram values) and as it was entered (values as they appear on the filemaker database worksheet).

Chromatogram values

Instrument #	Vial #	Time	Sample Name	EtOH value
2	12	5:26:38 PM	02018-1	**0.102**
2	13	5:29:53 PM	02018-2	**0.103**
2	14	5:32:55 PM	02018-3	**0.103**
2	15	5:35:57 PM	02018-4	**0.102**
2	16	5:38:58 PM	02018-5	**0.103**
2	10	5:20:34 PM	0.10 CONTROL	0.099

Values as they appear on the filemaker database worksheets

Worksheet 02018
0.098
0.099
0.099
0.099
0.099
0.099

Instrument #	Vial #	Time	Sample Name	EtOH value
1	12	5:28:00 PM	02019-1	*0.098*
1	13	5:31:17 PM	02019-2	*0.099*
1	14	5:34:18 PM	02019-3	*0.099*
1	15	5:37:20 PM	02019-4	*0.099*
1	16	5:40:22 PM	02019-5	*0.099*
1	10	5:21:57 PM	0.10 CONTROL	0.100

Worksheet 02019
0.102
0.103
0.103
0.102
0.103
0.100

As shown in bold type, the values on the chromatograms labeled as 02018 are the same as the values entered into the worksheet for 02019. Likewise, as shown in italicized type, the values on the chromatograms labeled as 02019 are the same as the values entered on the worksheet for 02018.

The values from instrument #2 which are labeled as 02018 should have been entered into the worksheet for 02018 and the values from instrument #1 labeled as 02019 should have been entered into the worksheet for 02019.

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Preparation and certification of **0.08** g/210L **Simulator External Standard solution**

Batch number **02018** Date: 6/17/2002

Preparation: 69.1 mL of absolute ethyl alcohol diluted to 54 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	0.101	0.101	0.102	0.105	0.102	0.098	0.102	0.102	0.102	0.101		
2	0.102	0.101	0.102	0.100	0.102	0.099	0.102	0.103	0.103	0.100		
3	0.101	0.101	0.102	0.101	0.102	0.099	0.102	0.103	0.102	0.100		
4	0.101	0.102	0.102	0.101	0.102	0.099	0.103	0.102	0.103	0.100		
5	0.101	0.102	0.102	0.101	0.102	0.099	0.102	0.102	0.102	0.102		
Ctrl	0.100	0.100	0.099	0.098	0.101	0.099	0.100	0.100	0.100	0.098		

External Control:

Lot #: A021986 Exp date: Jan 2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1015 g/100 mL

SD: 0.00128

Range (3xSD): 0.0976 to 0.1053

Precision CV (%): 1.2581 %

Equivalent vapor concent.: 0.0825 g/210L

Analyst	Name	Signature	Date
1	Eugene Schwilke		06/20/02
2	Naziha Nuwayhid, PhD		06/20/02
3	Estuardo J. Miranda		06/21/02
4	Melissa Pemberton		06/25/02
5	Egle Weiss		06/25/02
6	Jayne Thatcher		06/25/02
7	William P Marshall		06/26/02
8	Ruth Luthi		06/27/02
9	Edward Formoso		06/28/02
10	Ann Marie Gordon		07/08/02
11			
12			

Prepared by: Eugene Schwilke according to the approved protocol

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR 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 simulator solutions for the BAC Verifier Data Master breath test 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 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

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

GS/nf
GSSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Naziha Nuwayhid, 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 simulator solutions for the BAC Verifier Data Master breath test 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 simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Naziha Nuwayhid, Ph.D.
Forensic Toxicologist

NN/nf
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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Estuardo J. Miranda, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

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

The simulator Solution, Lot Number 02018 was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/nf
EMSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR 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 test instrument.

I possess the following qualifications: Bachelors degree in Microbiology and ten years of experience as a forensic toxicologist.

The simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/nf
MPSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Jayne E. Thatcher, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

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

The simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Jayne E. Thatcher
Forensic Toxicologist

JET/nf
JTSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR 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 simulator solutions for the BAC Verifier Data Master breath test 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 simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/nf
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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Ruth Luthi, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-two years of experience in analytical chemistry, and eighteen years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Ruth Luthi
Forensic Toxicologist

RL/nf
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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Edward J. Formoso, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-seven years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/nf
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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Ann Marie Gordon, 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 test instrument.

I possess the following qualifications: Masters degree in Microbiology and Immunology and twelve years of experience as a forensic toxicologist.

The simulator solution, Lot Number 02018, was prepared in the Washington State Toxicology Laboratory on 6/17/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 6/17/03.

Dated: 7/9/02
Seattle, WA

Ann Marie Gordon
Laboratory Manager

AMG/nf
AGSIMSOL

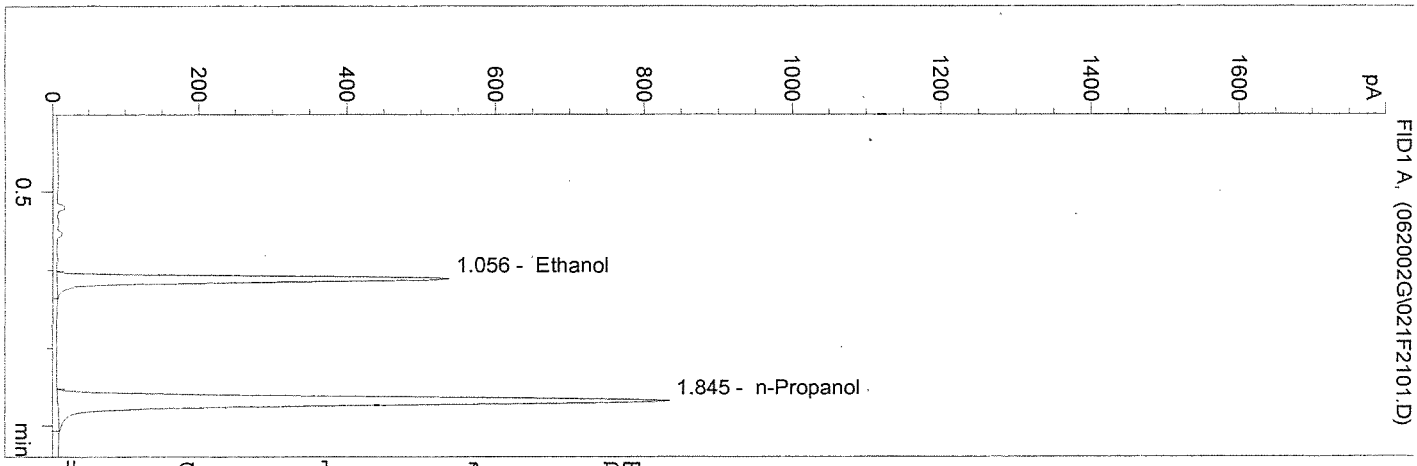
SS02018

C:\HPCHEM\2\METHODS\BLDALCO2.M
6/20/02 11:59:30 AM
Instrument 2
DB-ALC1

Cal. 023552

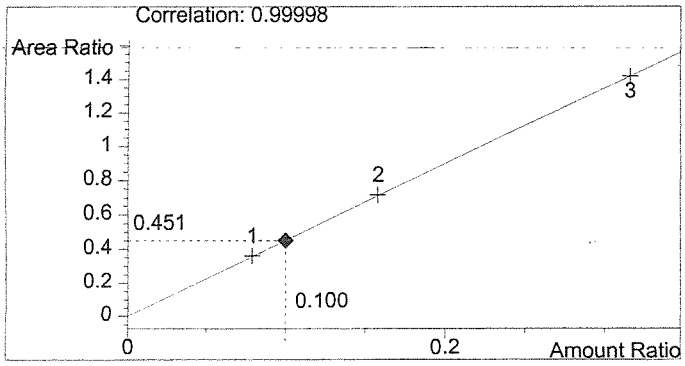
CAP 0.100
Gene Schwilke

vial # 21

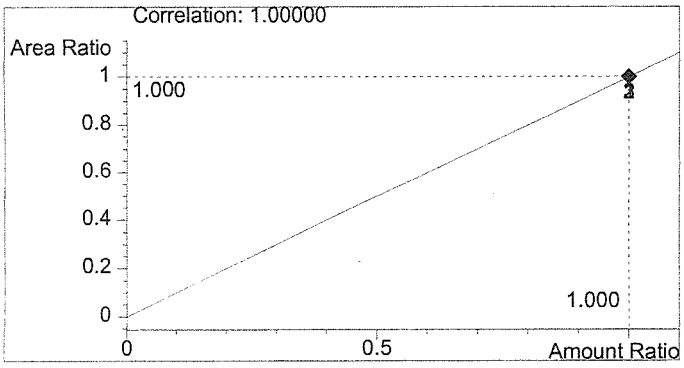


#	Compound	Area	RT
1	Ethanol	1438	1.056
2	n-Propanol	3186	1.845

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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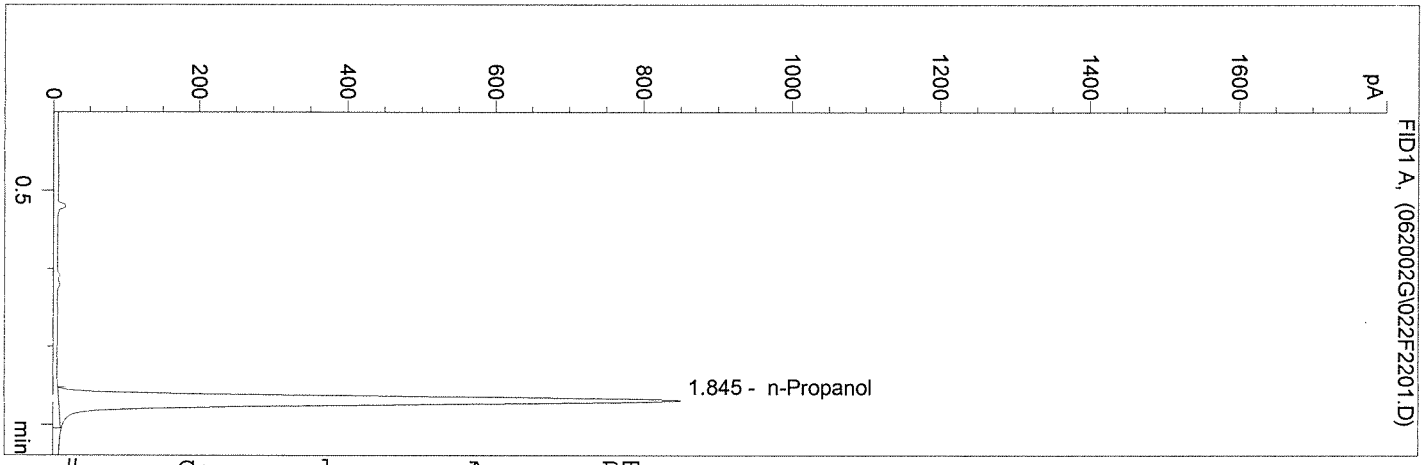
Instrument 2
ALC1

BLANK
Gene Schwilke

vial # 22



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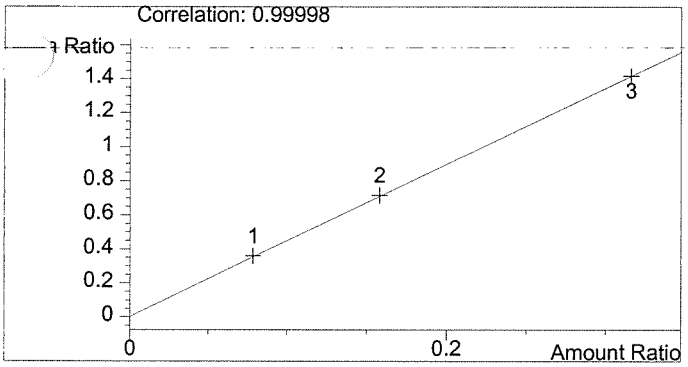
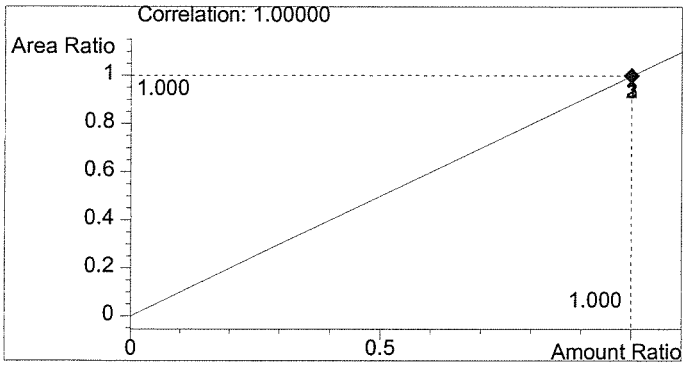
2	n-Propanol	3245	1.845

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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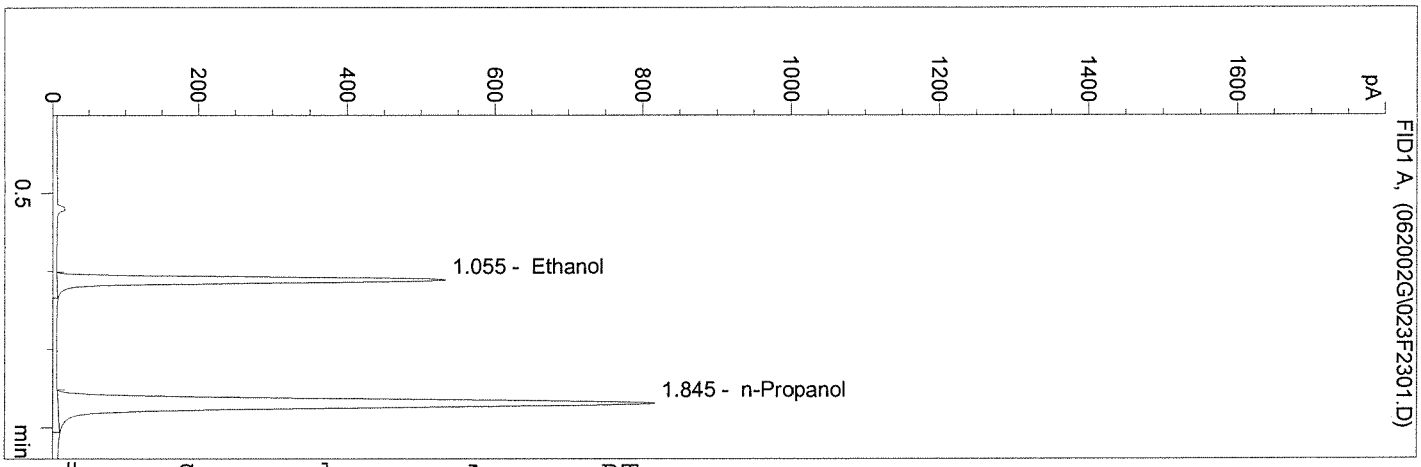
Instrument 2
-ALC1

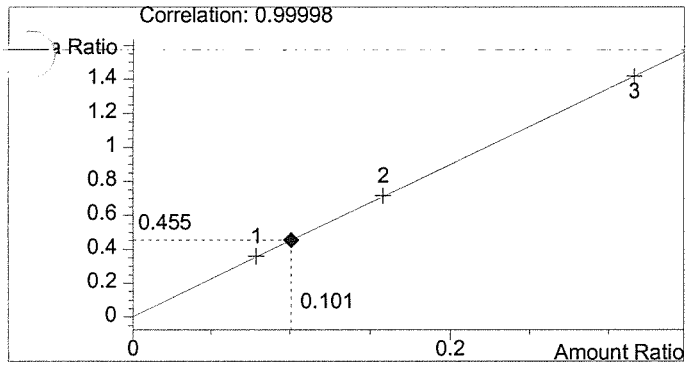
SS 02018
Gene Schwilke

vial # 23

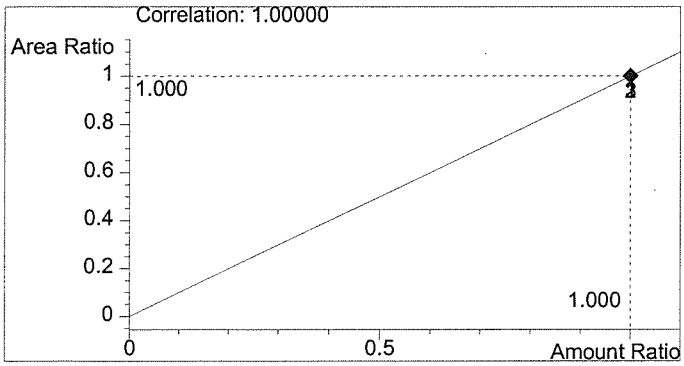


#	Compound	Area	RT
1	Ethanol	1417	1.055
2	n-Propanol	3117	1.845

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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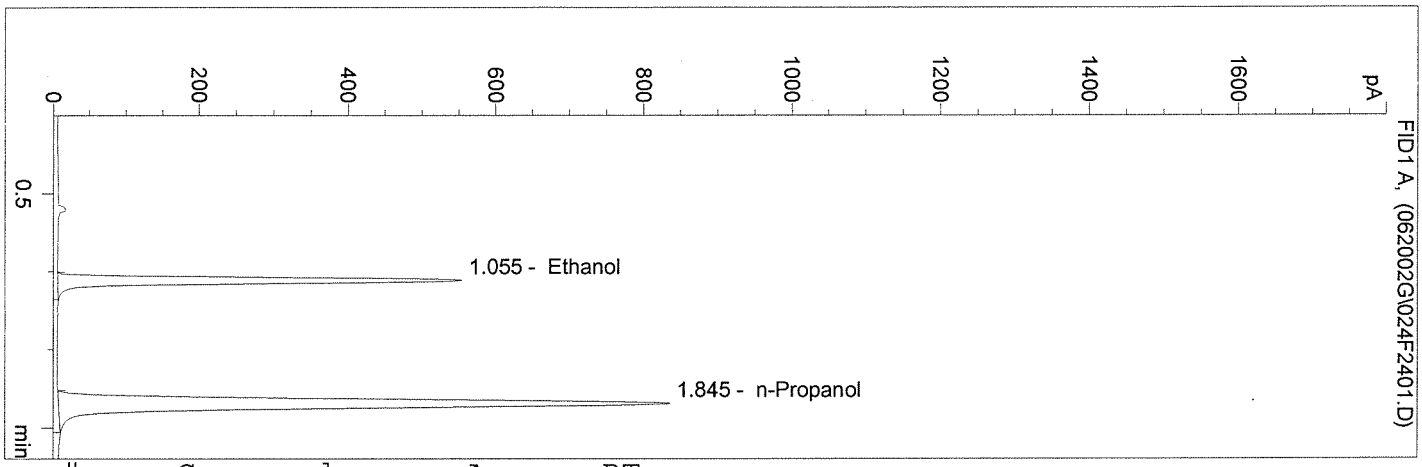
C:\HPCHEM\2\METHODS\BLDALCO2.M
6/20/02 12:08:46 PM
Instrument 2
-ALC1

SS 02018
Gene Schwilke

vial # 24



#	Compound	Area	RT
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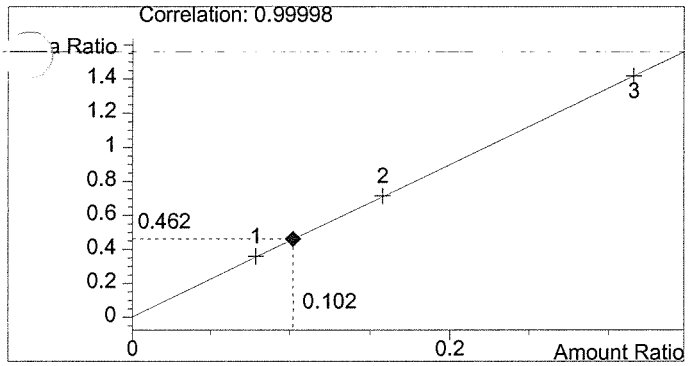
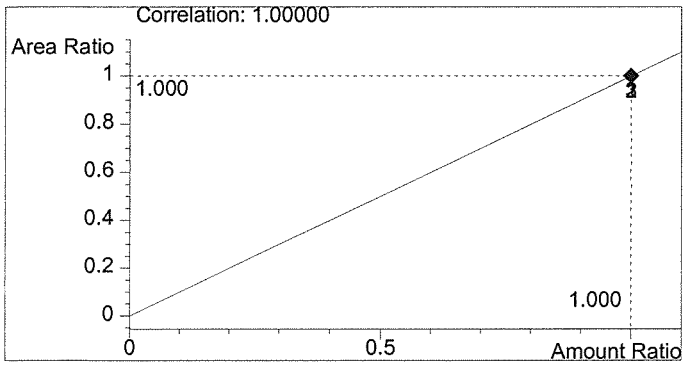
2	n-Propanol	3193	1.845

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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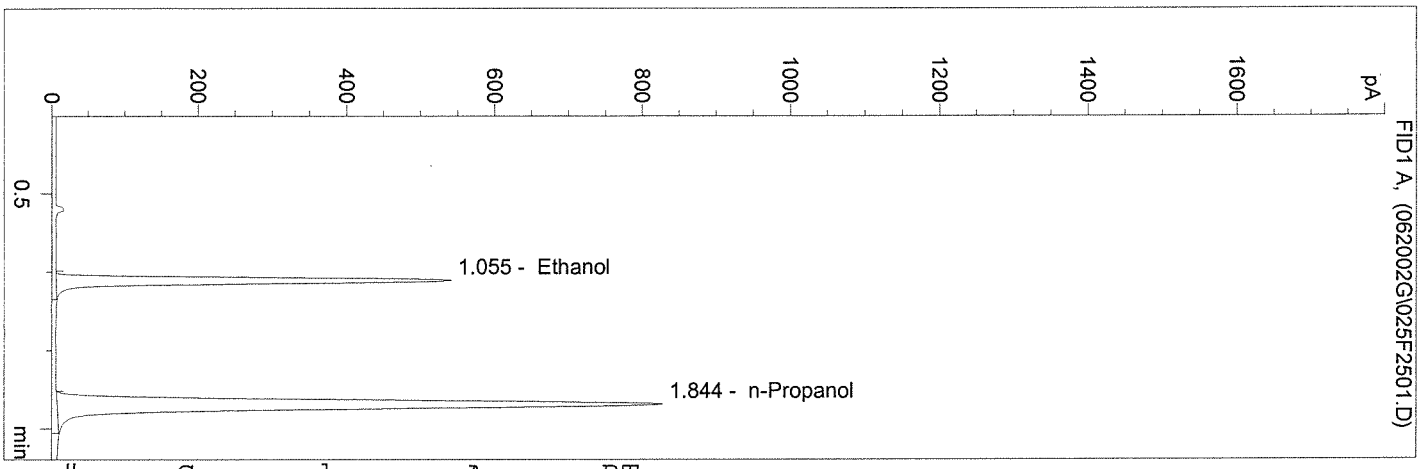
C:\HPCHEM\2\METHODS\BLDALCO2.M
6/20/02 12:11:50 PM
Instrument 2
-ALC1

SS 02018
Gene Schwilke

vial # 25



#	Compound	Area	RT
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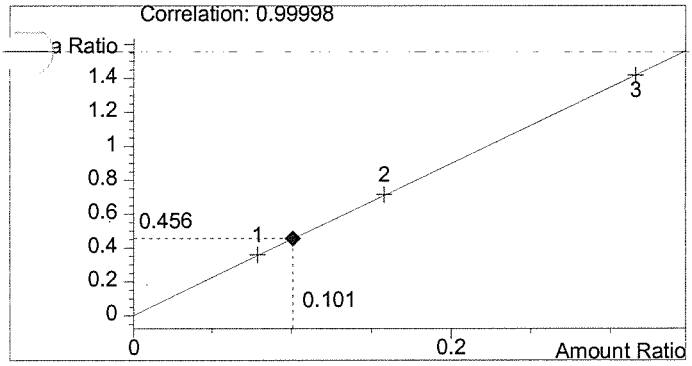
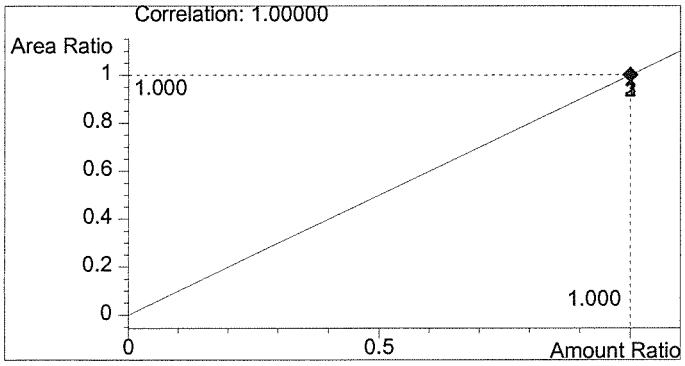
2	n-Propanol	3164	1.844

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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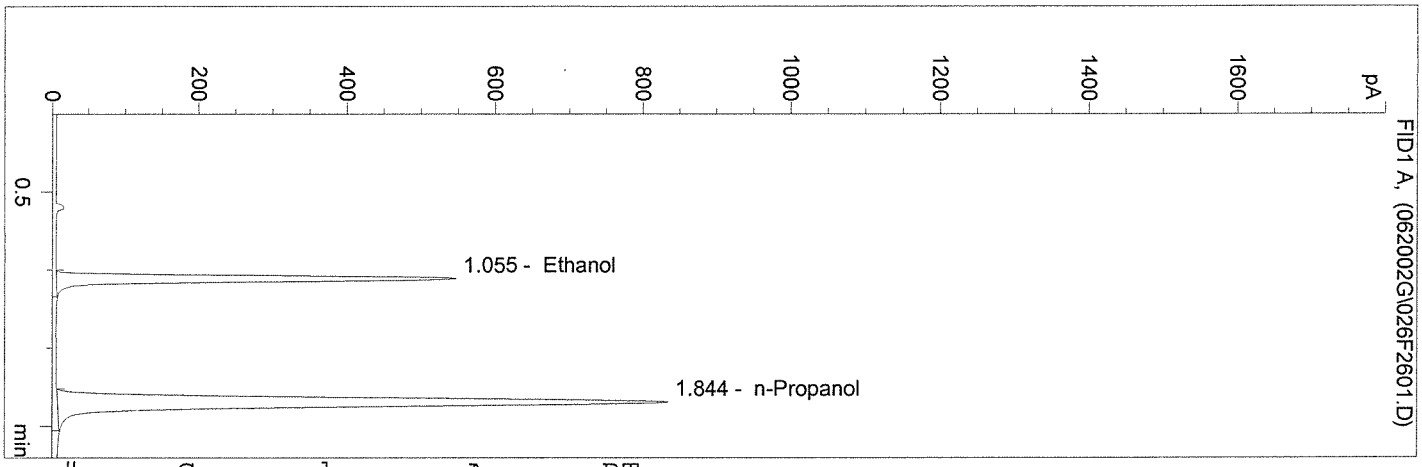
C:\HPCHEM\2\METHODS\BLDALCO2.M
6/20/02 12:14:52 PM
Instrument 2
-ALC1

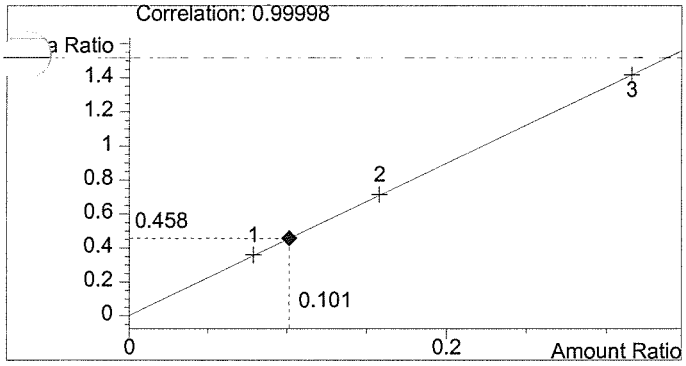
SS 02018
Gene Schwilke

vial # 26

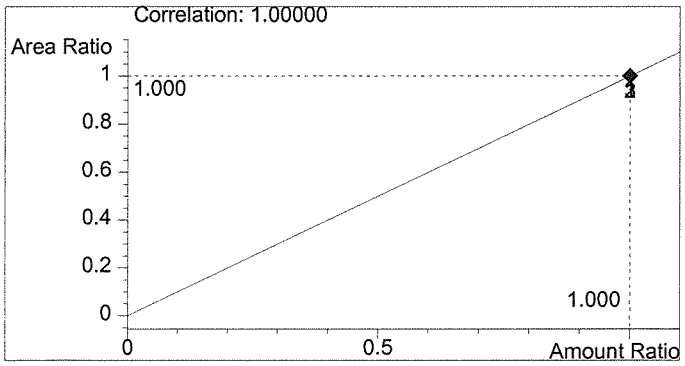


#	Compound	Area	RT
1	Ethanol	1457	1.055
2	n-Propanol	3183	1.844

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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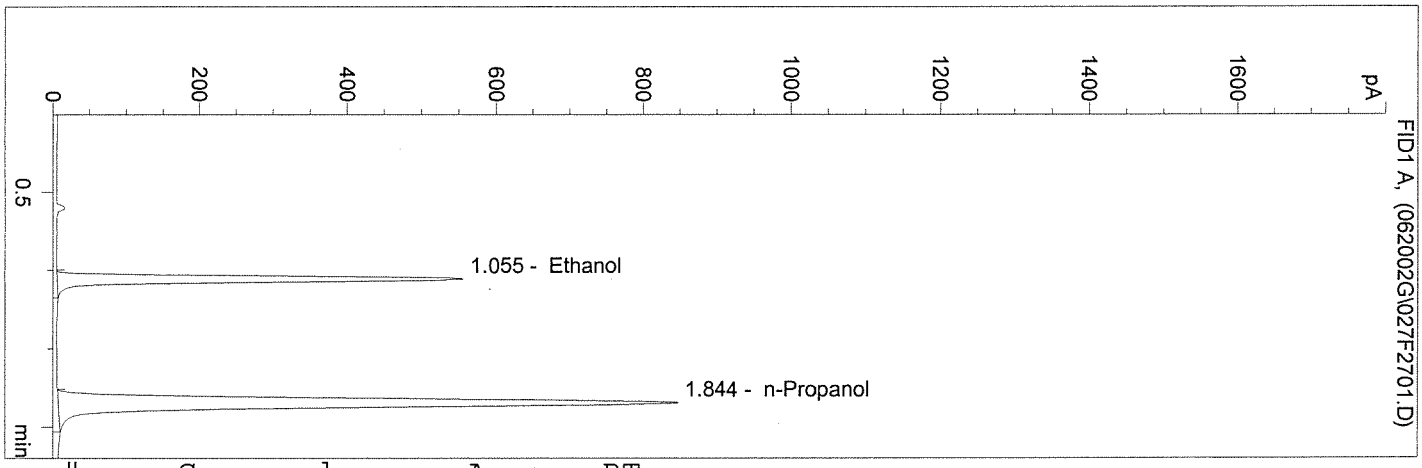
Instrument 2
-ALC1

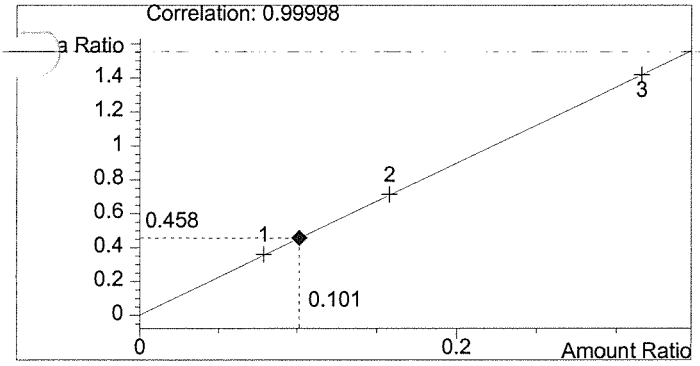
SS 02018
Gene Schwilke

vial # 27

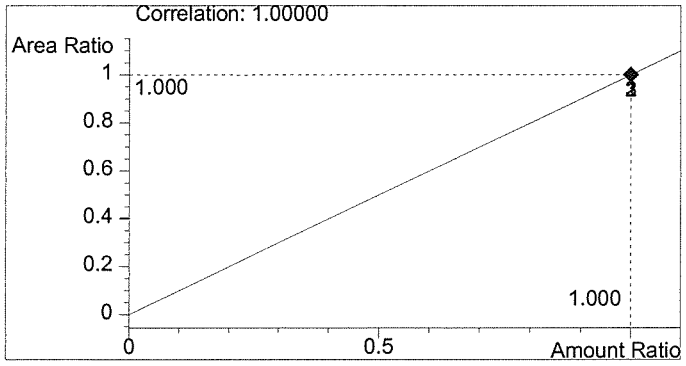


#	Compound	Area	RT
1	Ethanol	1478	1.055
2	n-Propanol	3230	1.844

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

Calibrators & controls in 023580

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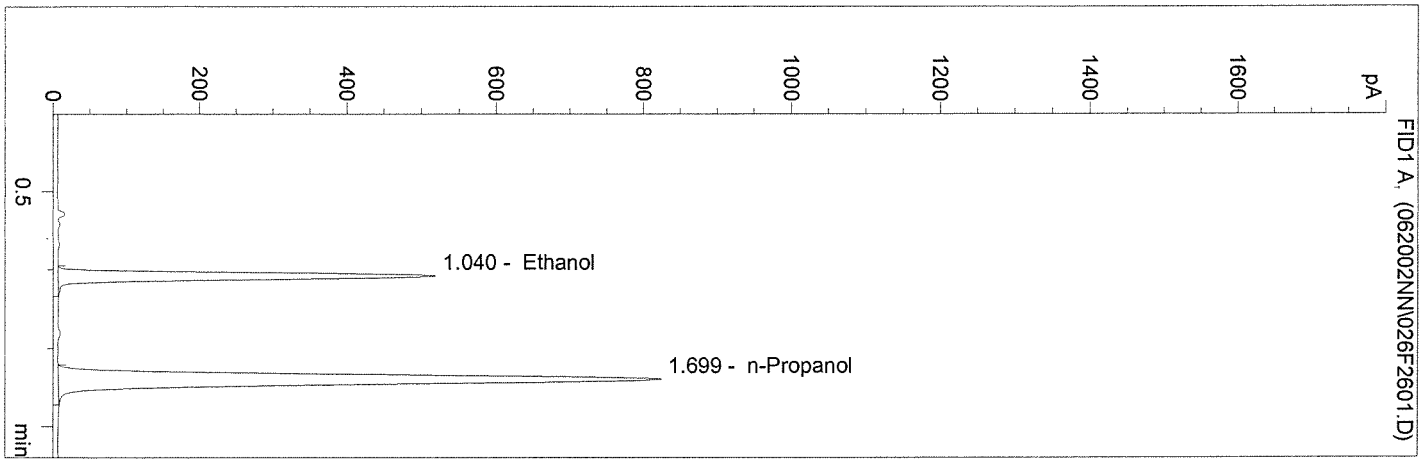
Instrument 1
-ALC1

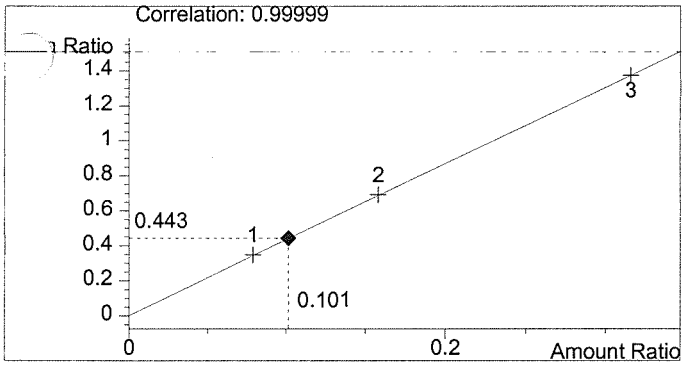
SS 02018
Naziha Nuwayhid, PhD

vial # 26

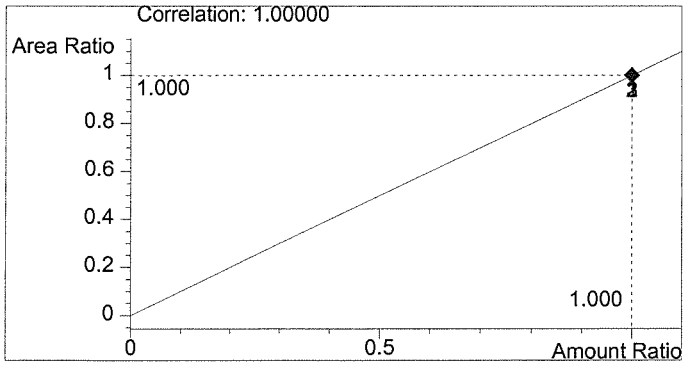


#	Compound	Area	RT
1	Ethanol	1508	1.040
2	n-Propanol	3404	1.699

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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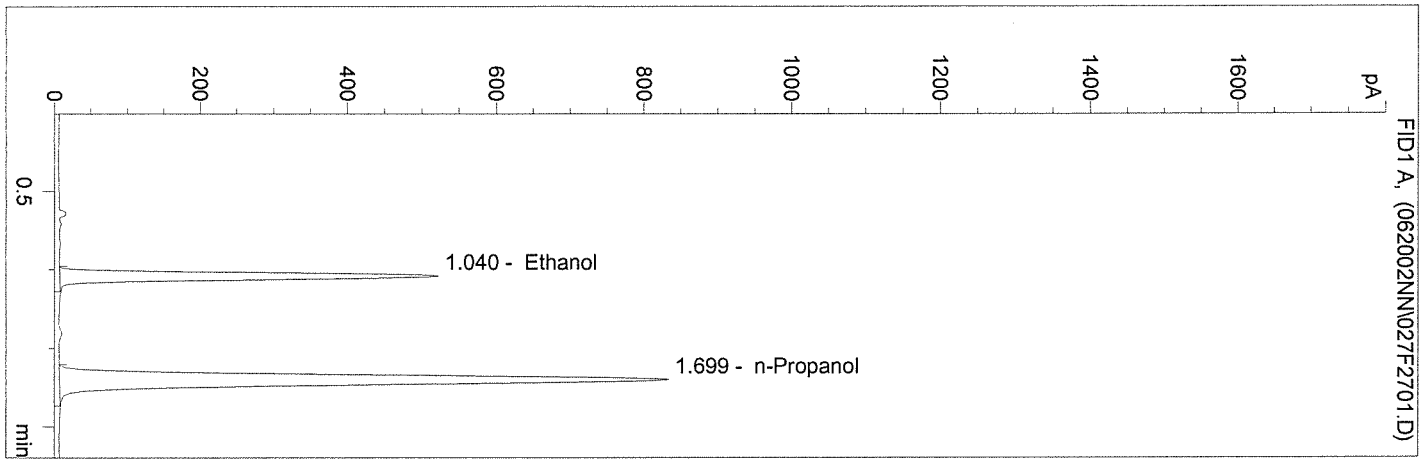
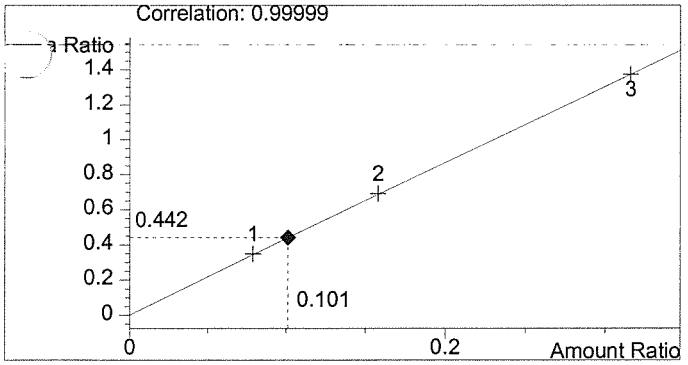
Instrument 1
-ALC1

SS 02018
Naziha Nuwayhid, PhD

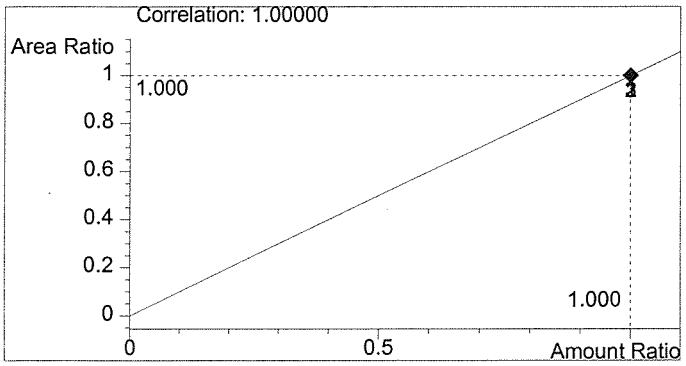
vial # 27



#	Compound	Area	RT
1	Ethanol	1526	1.040
2	n-Propanol	3456	1.699
Totals:			



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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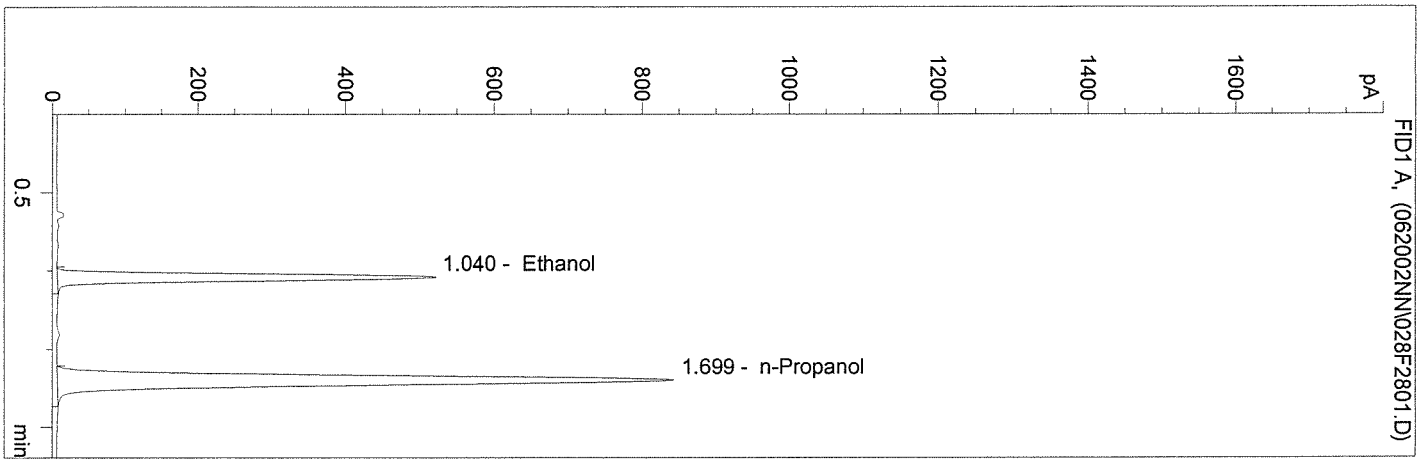
Instrument 1
ALC1

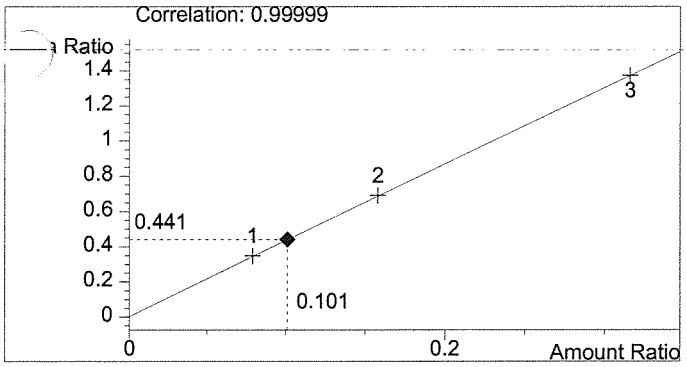
SS 02018
Naziha Nuwayhid, PhD

vial # 28

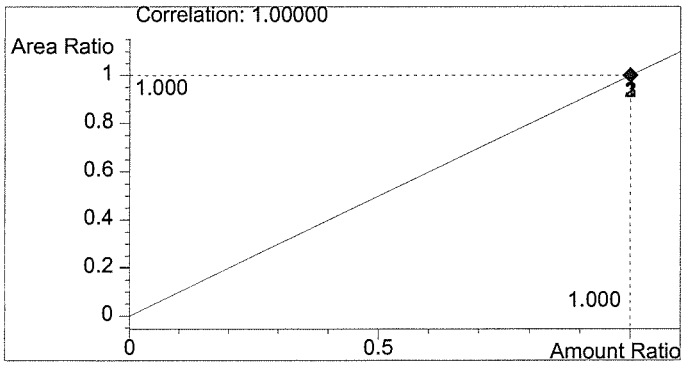


#	Compound	Area	RT
1	Ethanol	1541	1.040
2	n-Propanol	3494	1.699

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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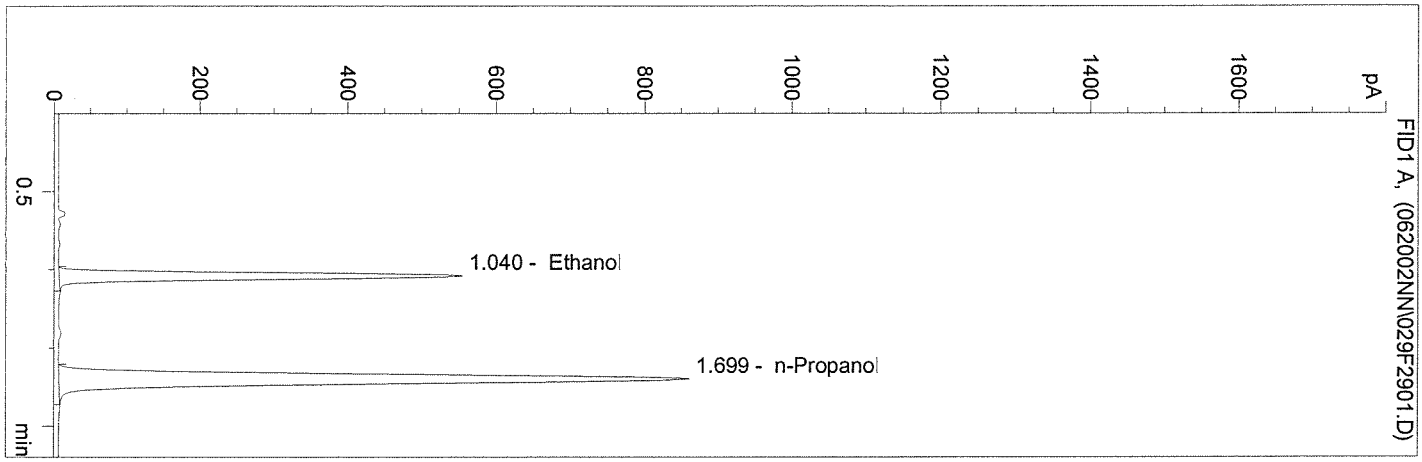
Instrument 1
-ALC1

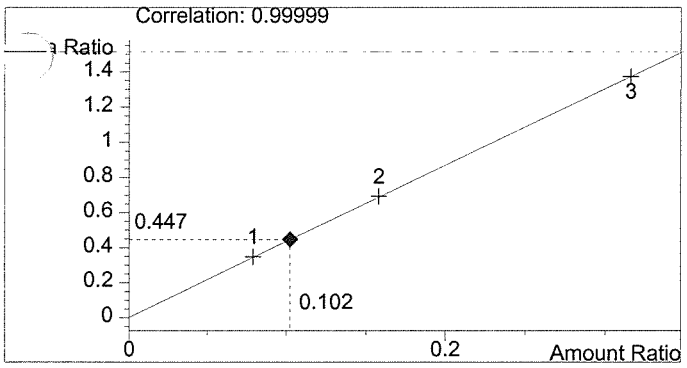
SS 02018
Naziha Nuwayhid, PhD

vial # 29

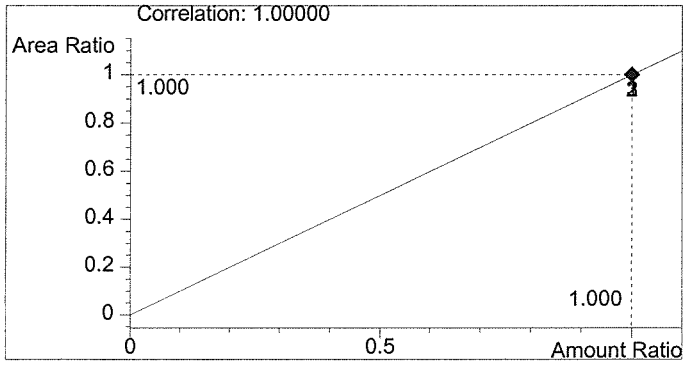


#	Compound	Area	RT
1	Ethanol	1582	1.040
2	n-Propanol	3539	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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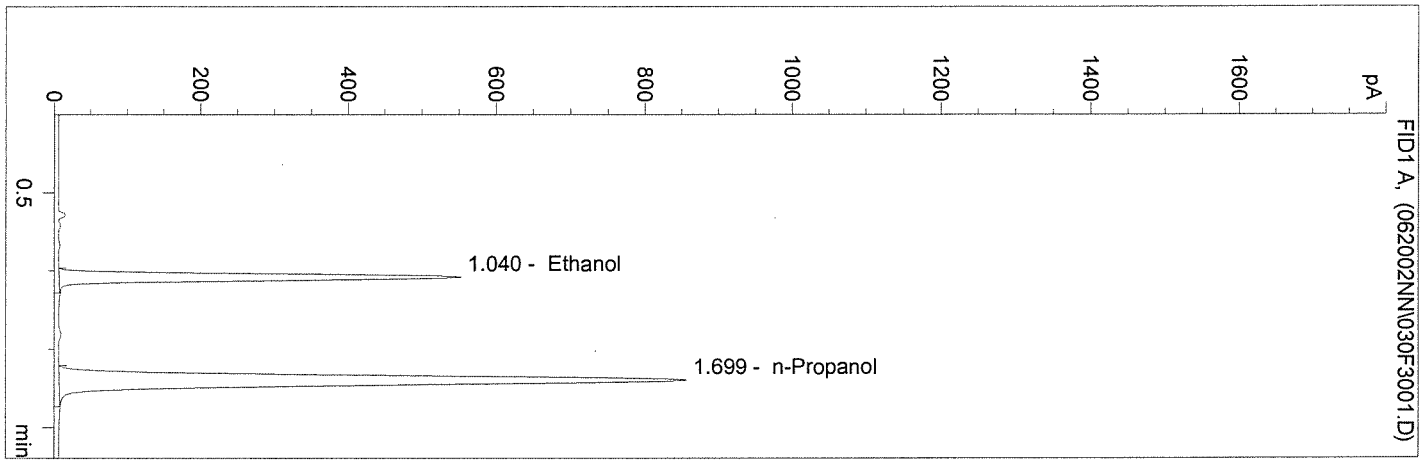
Instrument 1
-ALC1

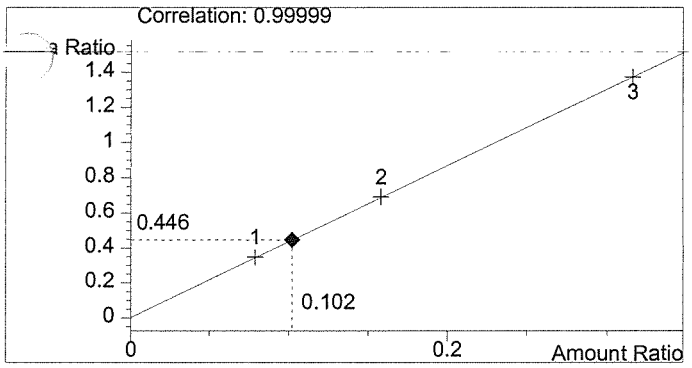
SS 02018
Naziha Nuwayhid, PhD

vial # 30

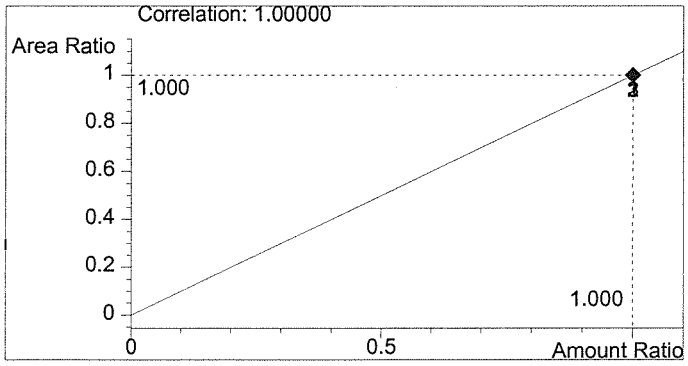


#	Compound	Area	RT
1	Ethanol	1572	1.040
2	n-Propanol	3522	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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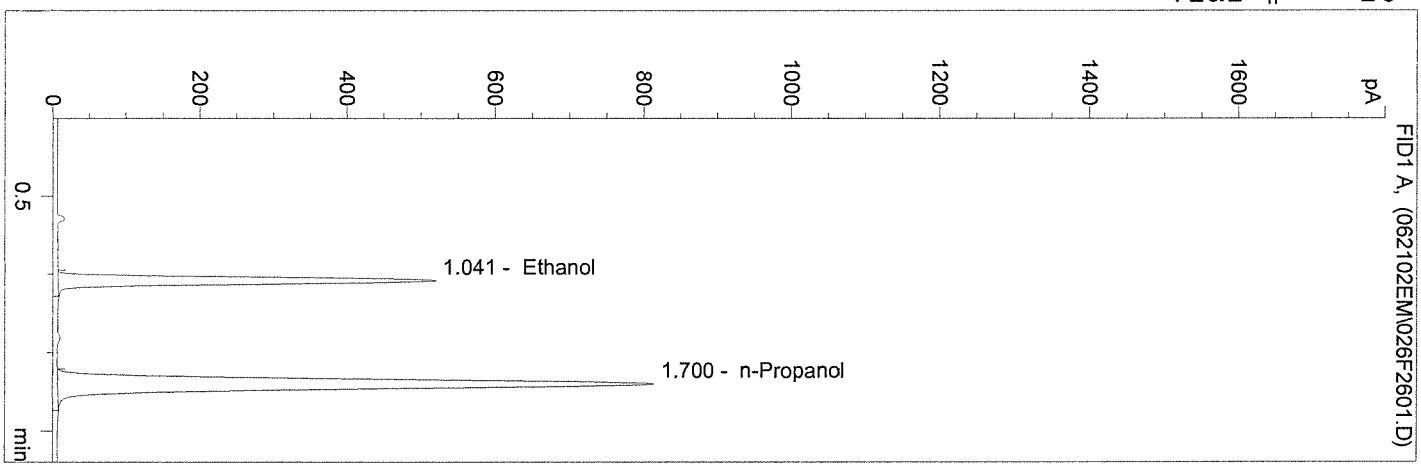
Instrument 1
-ALC1

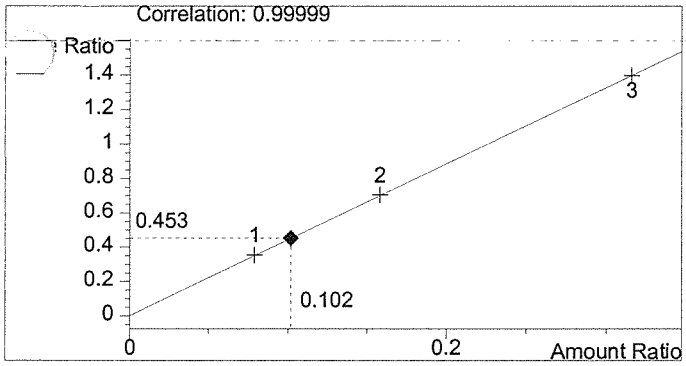
Sim. Sol. 02018
Estuardo J. Miranda

vial # 26

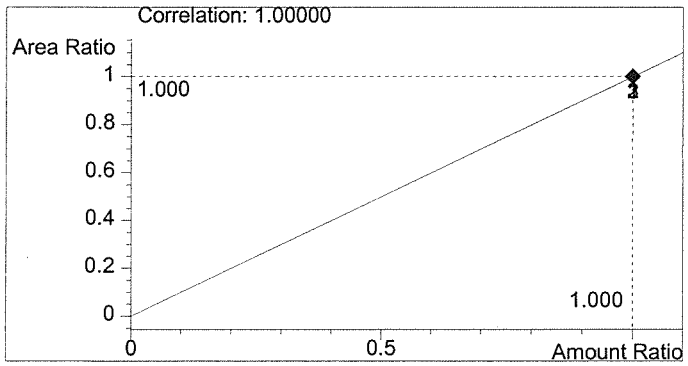


#	Compound	Area	RT
1	Ethanol	1522	1.041
2	n-Propanol	3363	1.700

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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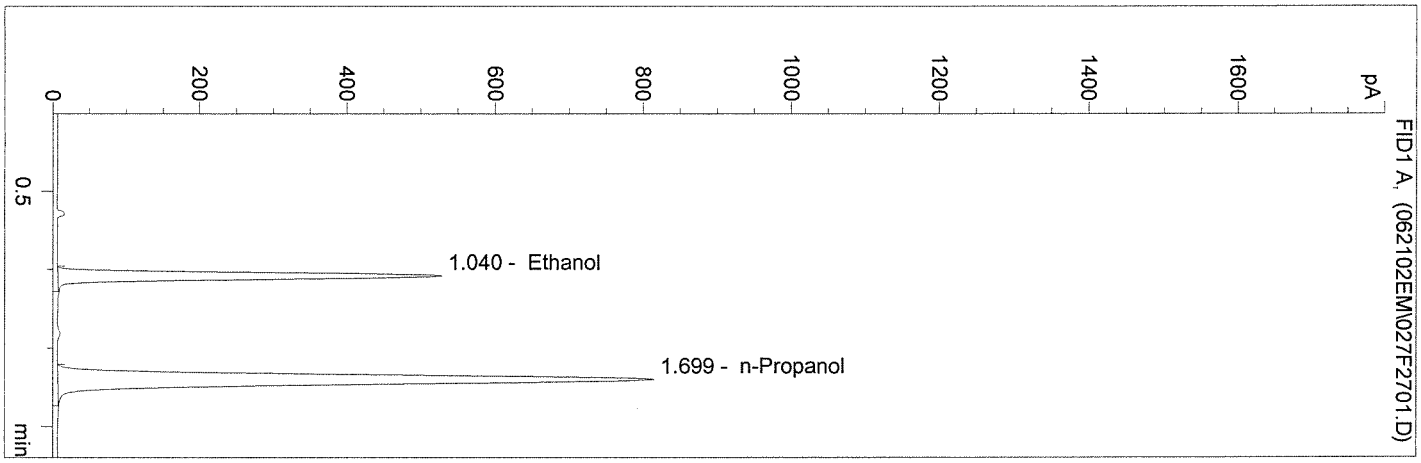
Instrument 1
ALC1

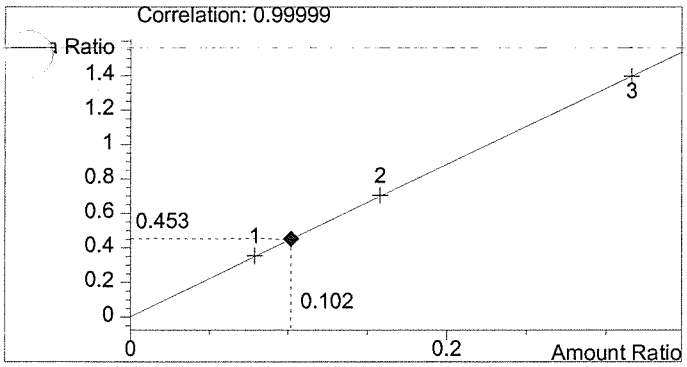
Sim. Sol. 02018
Estuardo J. Miranda

vial # 27

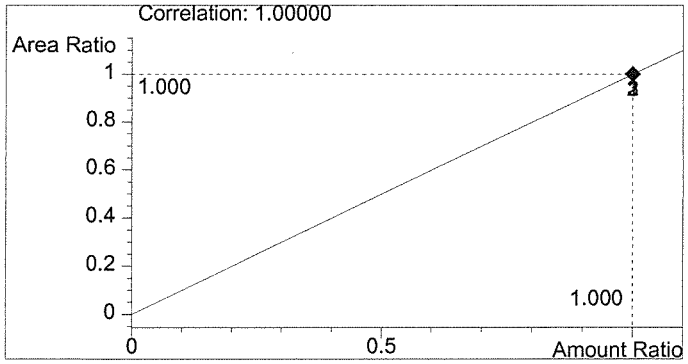


#	Compound	Area	RT
1	Ethanol	1522	1.040
2	n-Propanol	3359	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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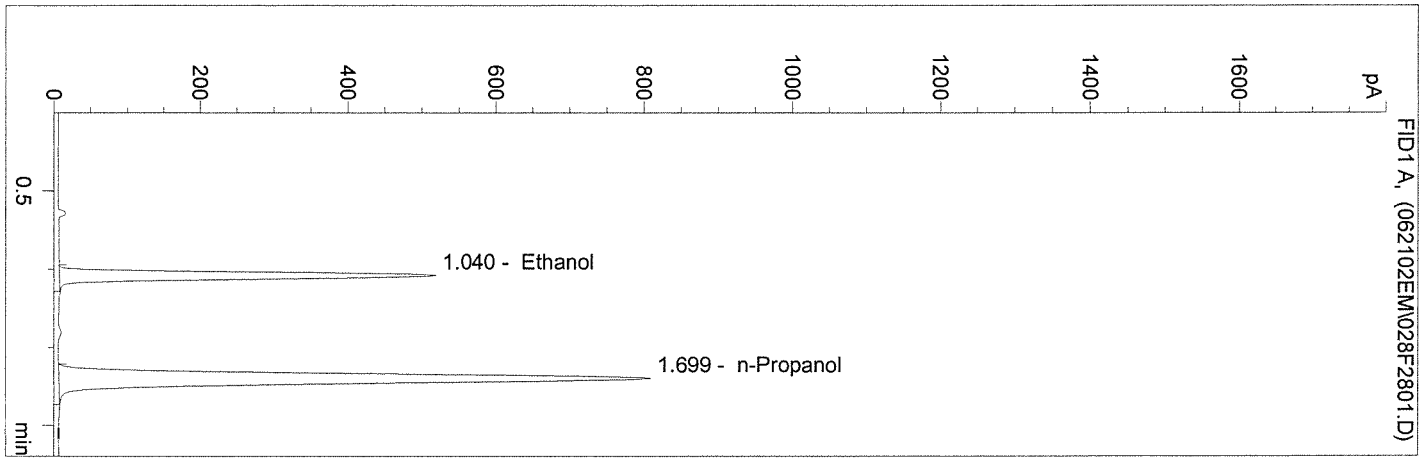
Instrument 1
-ALC1

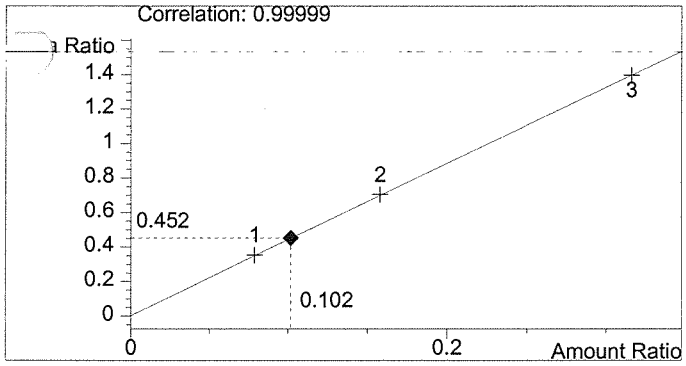
Sim. Sol. 02018
Estuardo J. Miranda

vial # 28

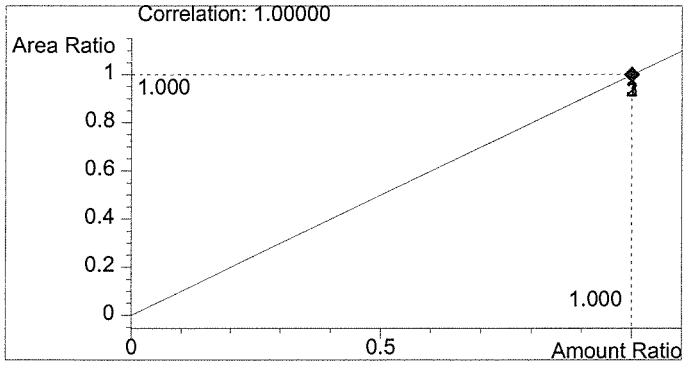


#	Compound	Area	RT
1	Ethanol	1510	1.040
2	n-Propanol	3339	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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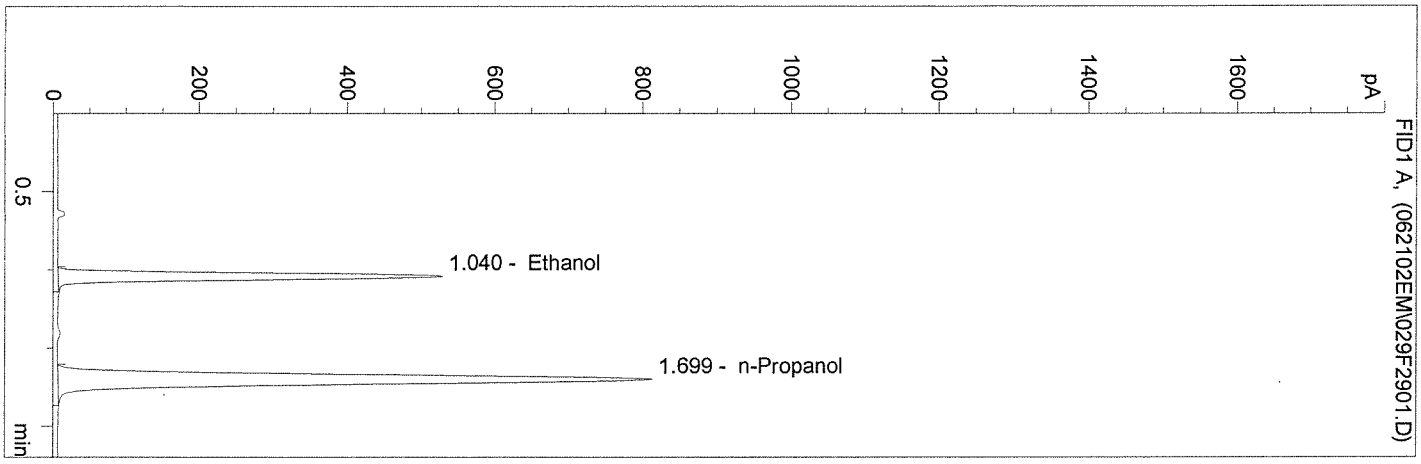
6/21/02 1:19:58 PM
Instrument 1
-ALC1

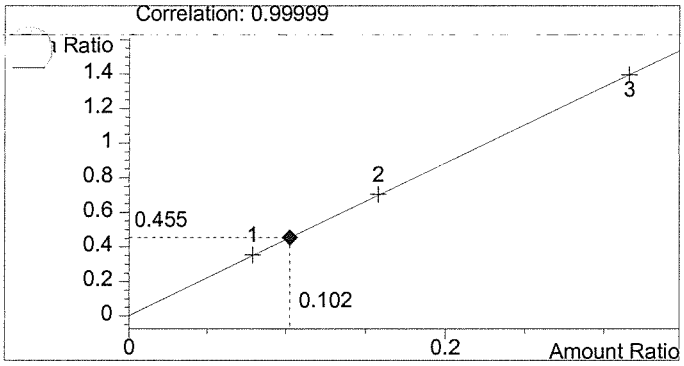
Sim. Sol. 02018
Estuardo J. Miranda

vial # 29

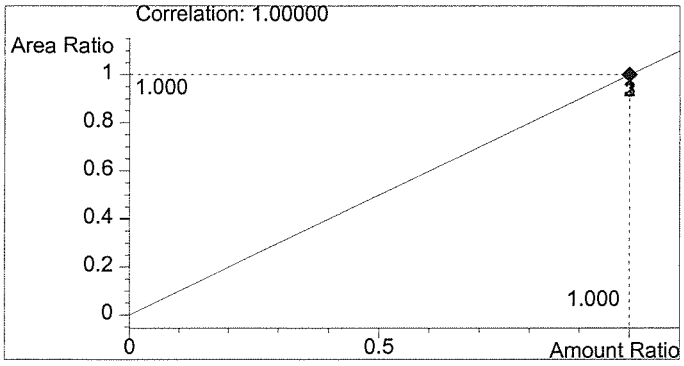


#	Compound	Area	RT
1	Ethanol	1523	1.040
2	n-Propanol	3346	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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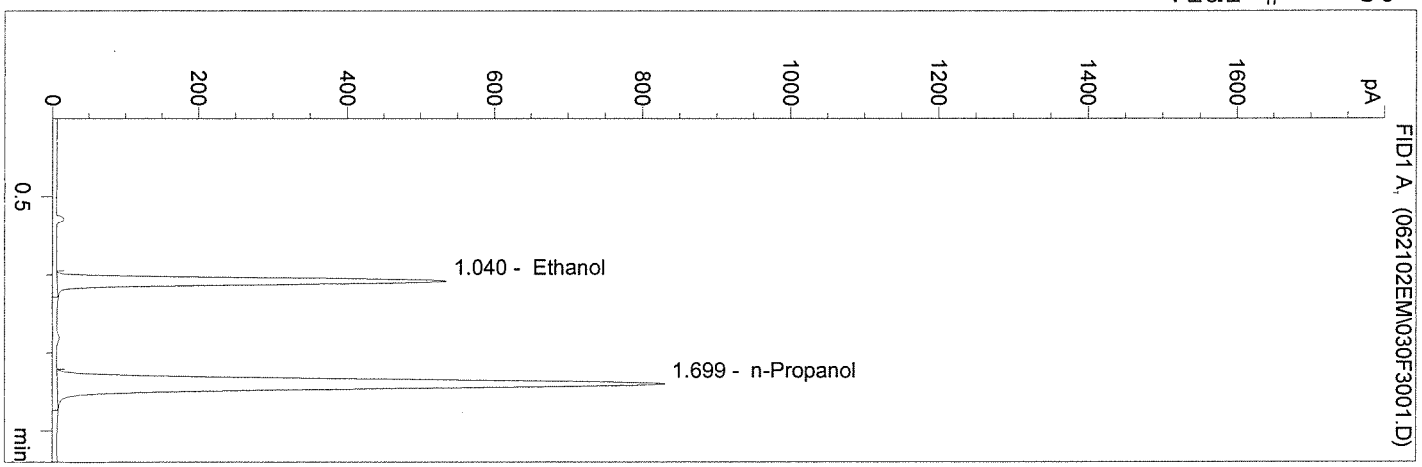
Instrument 1
-ALC1

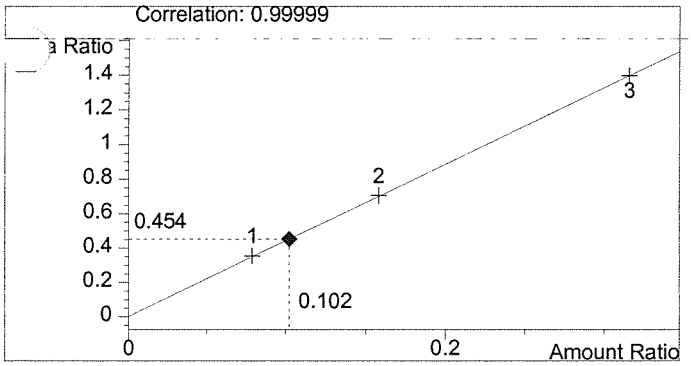
Sim. Sol. 02018
Estuardo J. Miranda

vial # 30

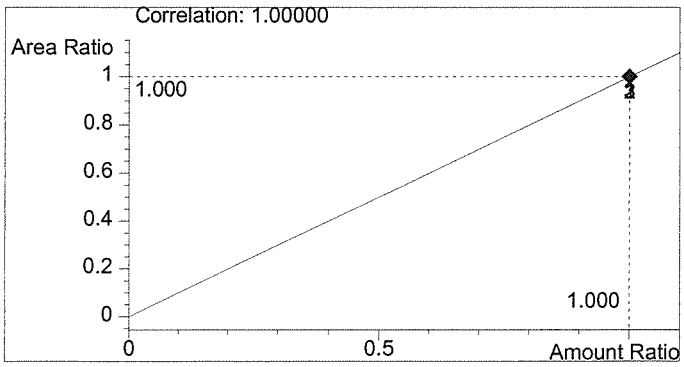


#	Compound	Area	RT
1	Ethanol	1555	1.040
2	n-Propanol	3424	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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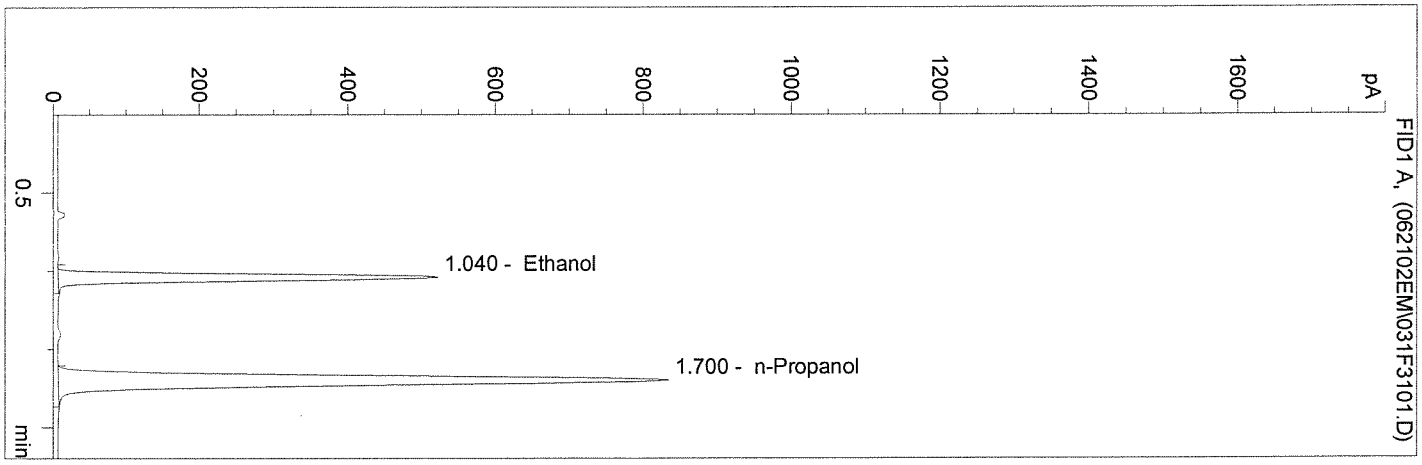
6/21/02 1:26:01 PM
Instrument 1
ALC1

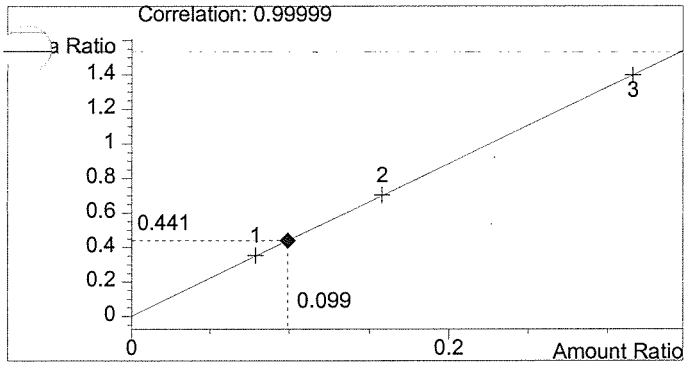
0.100 Control
Estuardo J. Miranda

vial # 31

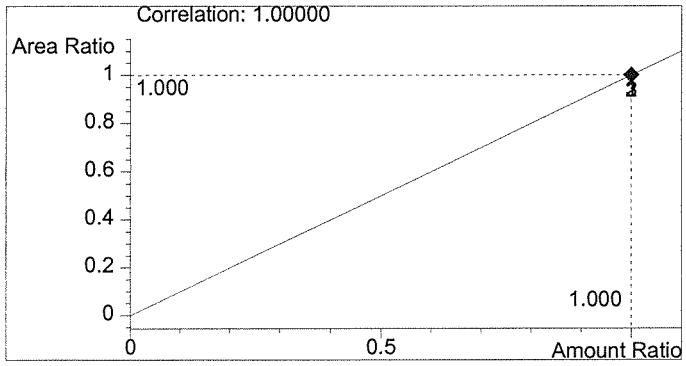


#	Compound	Area	RT
1	Ethanol	1518	1.040
2	n-Propanol	3444	1.700

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 1
-ALC1

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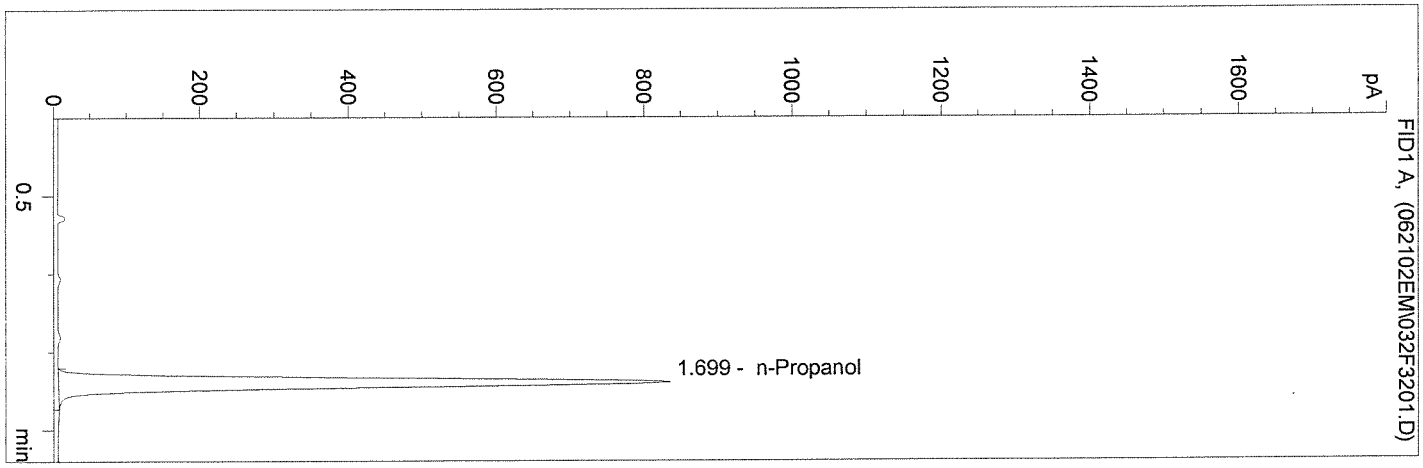
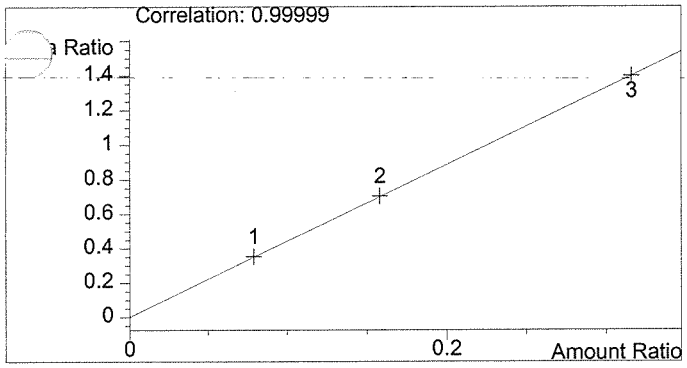
Estuardo J. Miranda

vial # 32

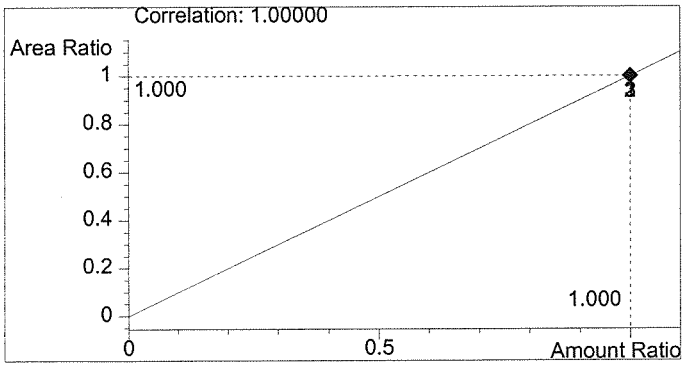


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3438	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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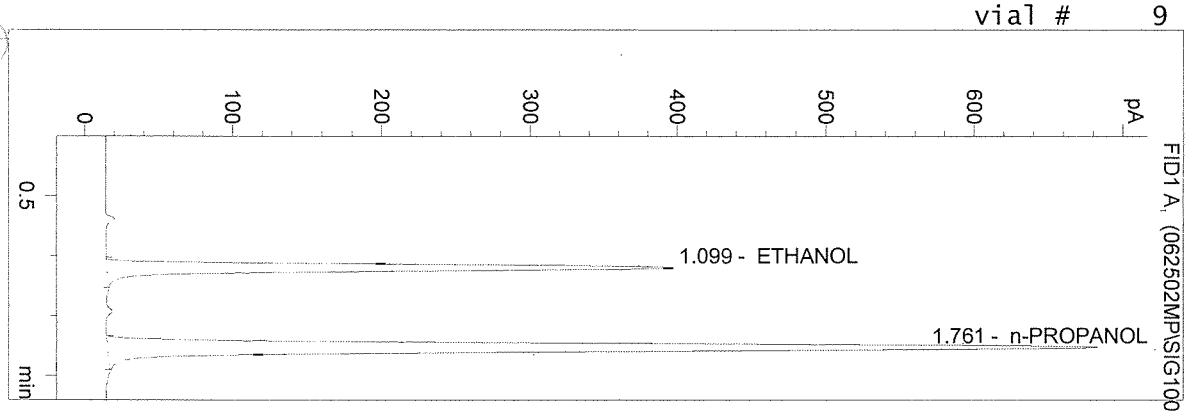
6/25/02 7:22:12 AM
Instrument 3
DB-ALC1

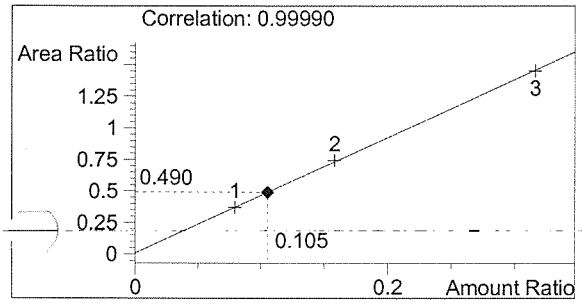
02018 sim soln
m pemberton

vial # 9

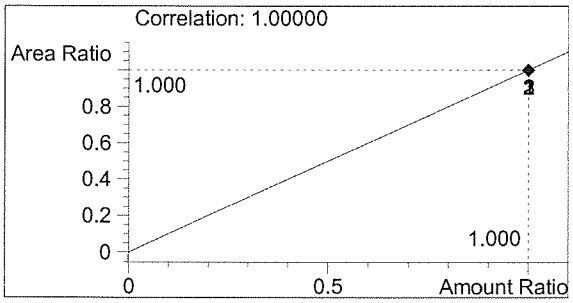


#	Compound	Area	RT
1	ETHANOL	1488	1.099
2	n-PROPANOL	3038	1.761

Totals:



ETHANOL 0.105 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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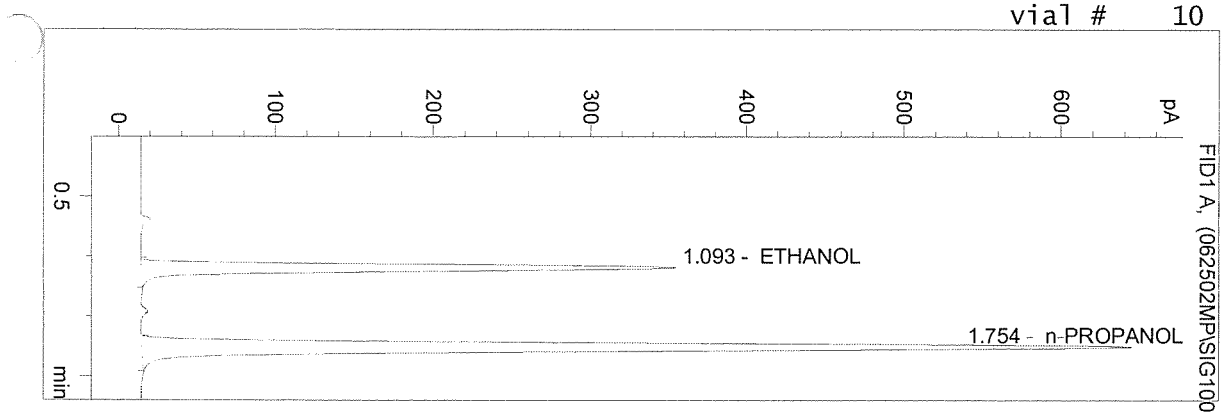
6/25/02 7:25:22 AM
Instrument 3
DB-ALC1

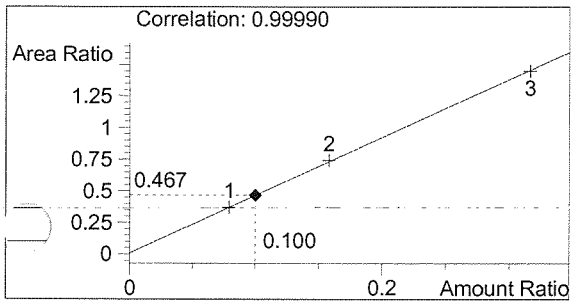
02018 sim soln
m pemberton

vial # 10

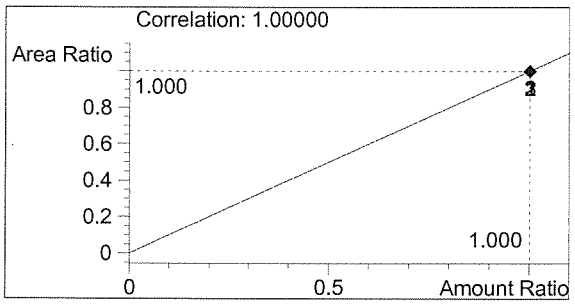


#	Compound	Area	RT
1	ETHANOL	1351	1.093
2	n-PROPANOL	2894	1.754

Totals:



ETHANOL 0.100 mg/L

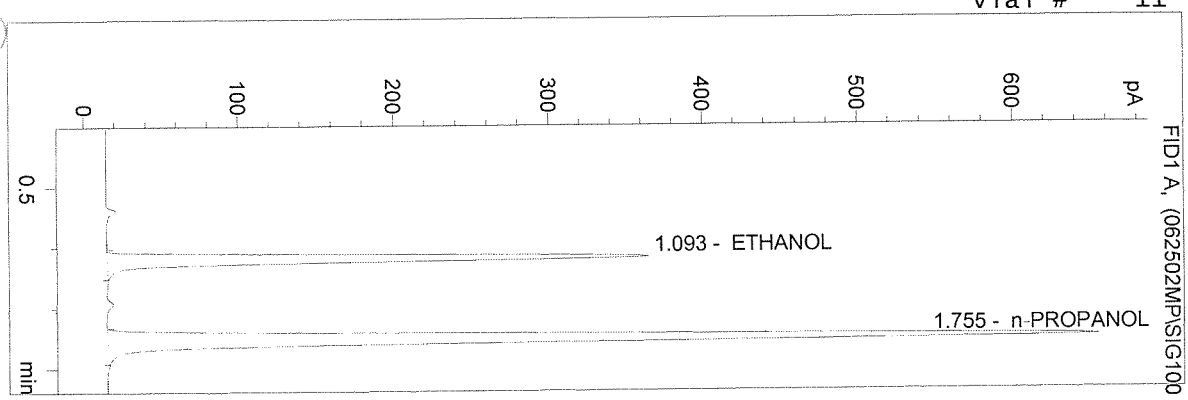


n-PROPANOL 1.000 mg/L

C:\HPCHEM\1\METHODS\BLDALCO3.M
6/25/02 7:28:46 AM
Instrument 3
DB-ALC1

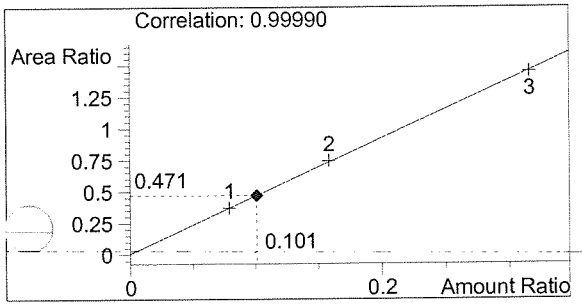
02018 sim soln
m pemberton

vial # 11

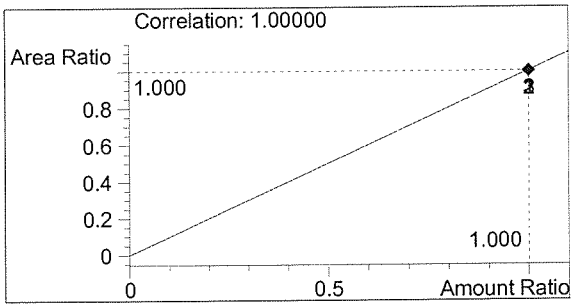


#	Compound	Area	RT
1	ETHANOL	1378	1.093
2	n-PROPANOL	2924	1.755

Totals:



ETHANOL 0.101 mg/L



n-PROPANOL 1.000 mg/L

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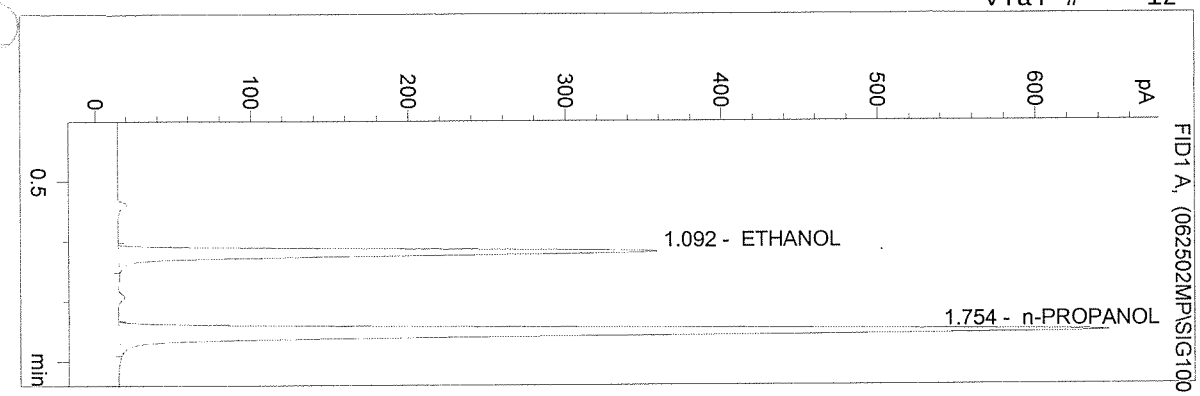
Instrument 3
DB-ALC1

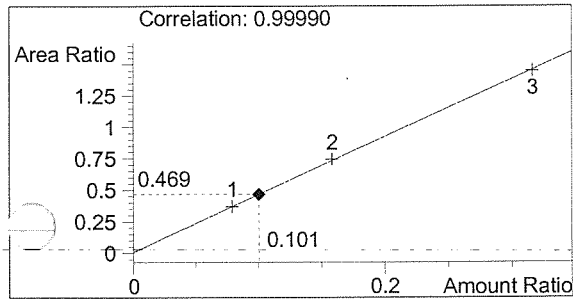
02018 sim soln
m pemberton

vial # 12

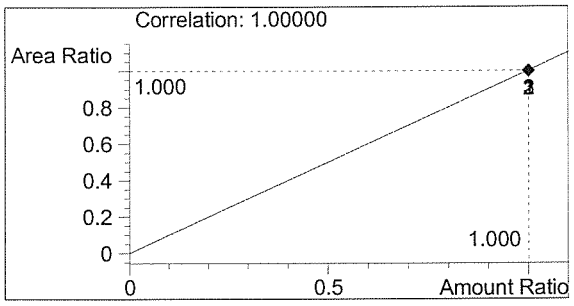


#	Compound	Area	RT
1	ETHANOL	1353	1.092
2	n-PROPANOL	2886	1.754

Totals:



ETHANOL 0.101 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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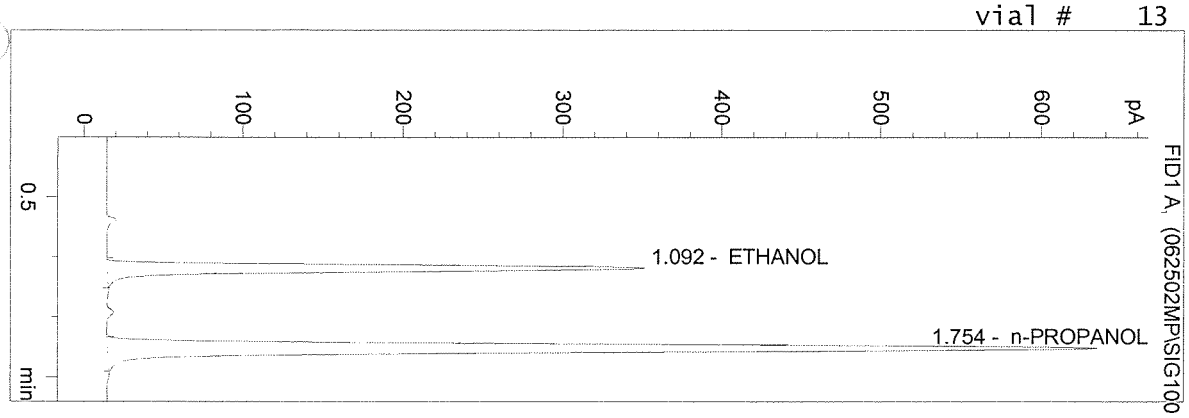
6/25/02 7:35:19 AM
Instrument 3
DB-ALC1

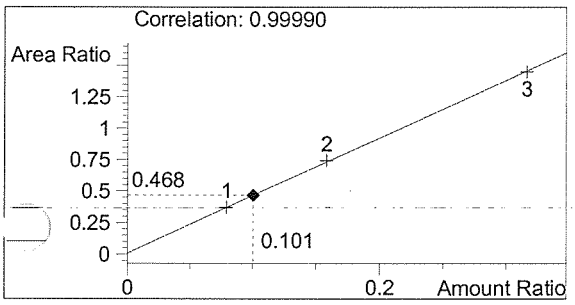
02018 sim soln
m pemberton

vial # 13

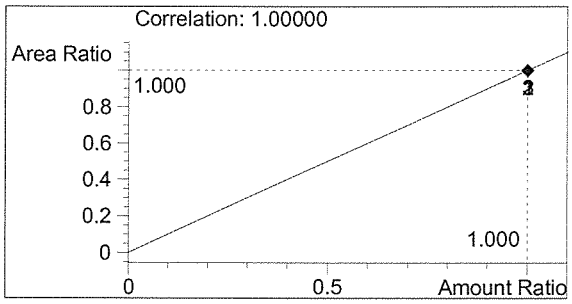


#	Compound	Area	RT
1	ETHANOL	1318	1.092
2	n-PROPANOL	2814	1.754

Totals:



ETHANOL 0.101 mg/L

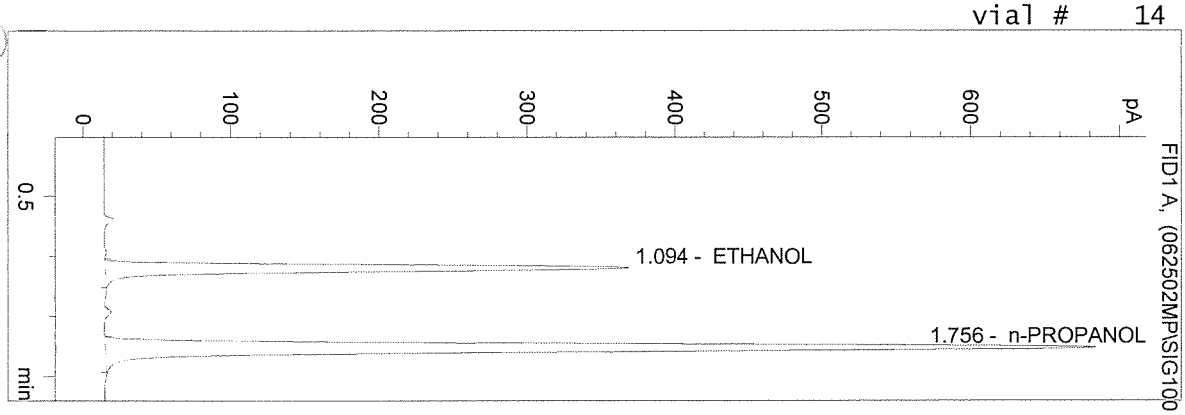


n-PROPANOL 1.000 mg/L

C:\HPCHEM\1\METHODS\BLDALCO3.M
6/25/02 7:38:29 AM
Instrument 3
DB-ALC1

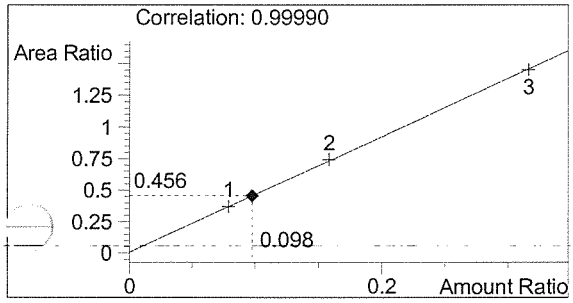
0.10 control
m pemberton

vial # 14

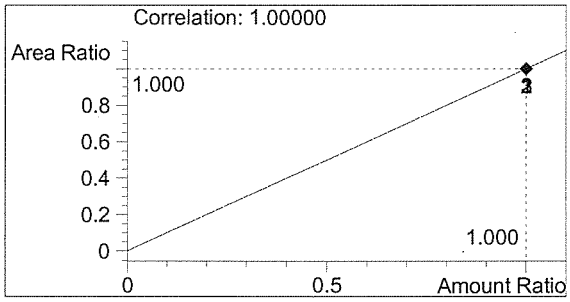


#	Compound	Area	RT
1	ETHANOL	1393	1.094
2	n-PROPANOL	3053	1.756

Totals:



ETHANOL 0.098 mg/L



n-PROPANOL 1.000 mg/L

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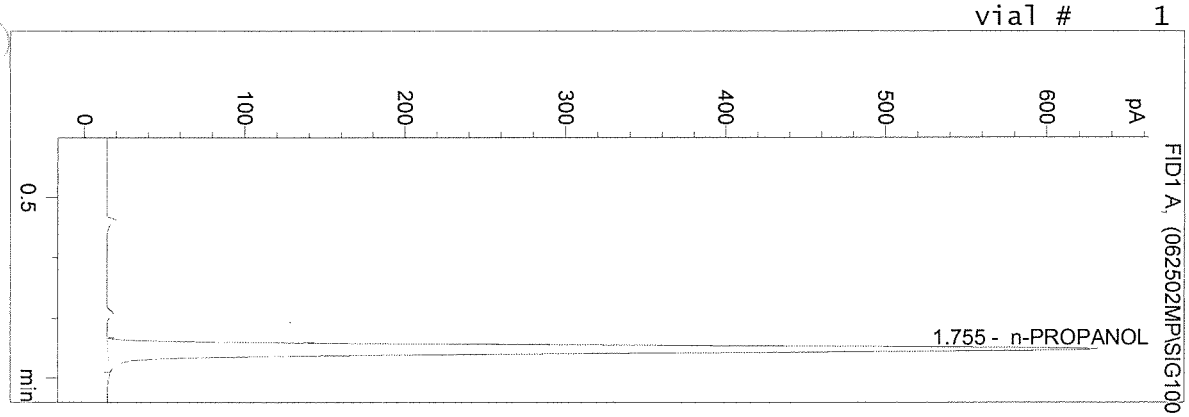
6/25/02 6:56:24 AM
Instrument 3
DB-ALC1

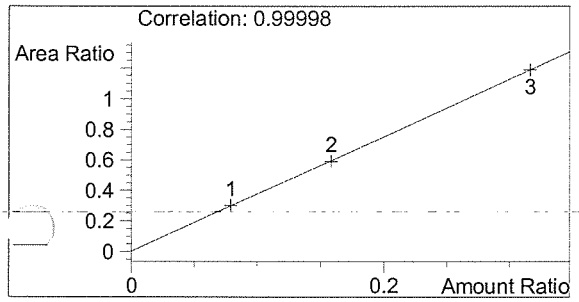
BLANK
m pemberton

vial # 1

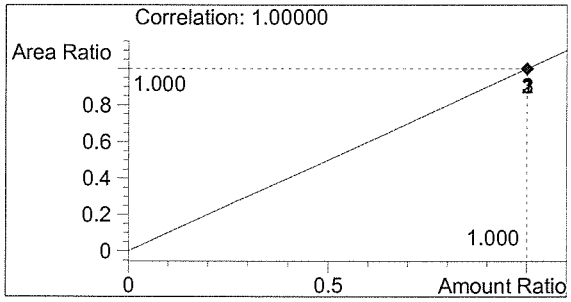


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	2816	1.755

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L

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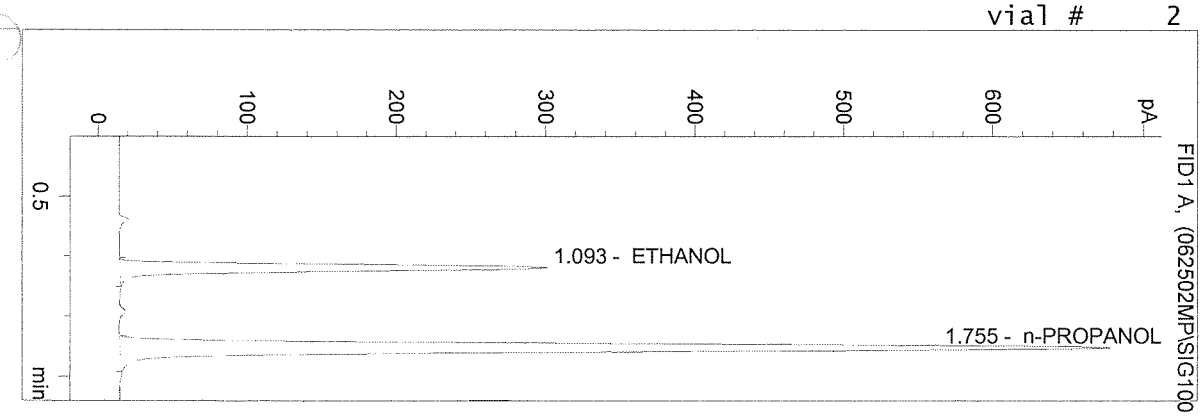
6/25/02 6:59:34 AM
Instrument 3
DB-ALC1

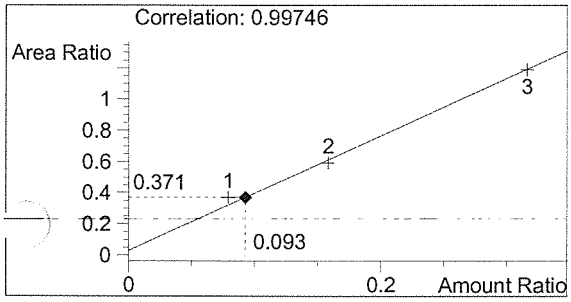
0.079 CALIBRATOR
m pemberton

vial # 2

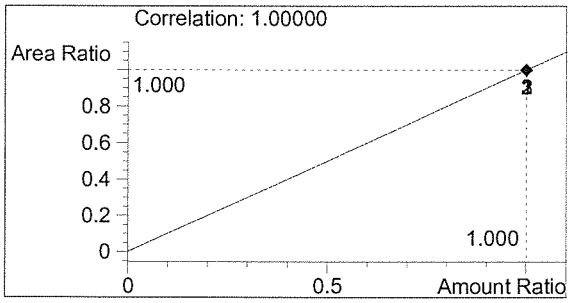


#	Compound	Area	RT
1	ETHANOL	1124	1.093
2	n-PROPANOL	3029	1.755

Totals:



ETHANOL 0.093 mg/L



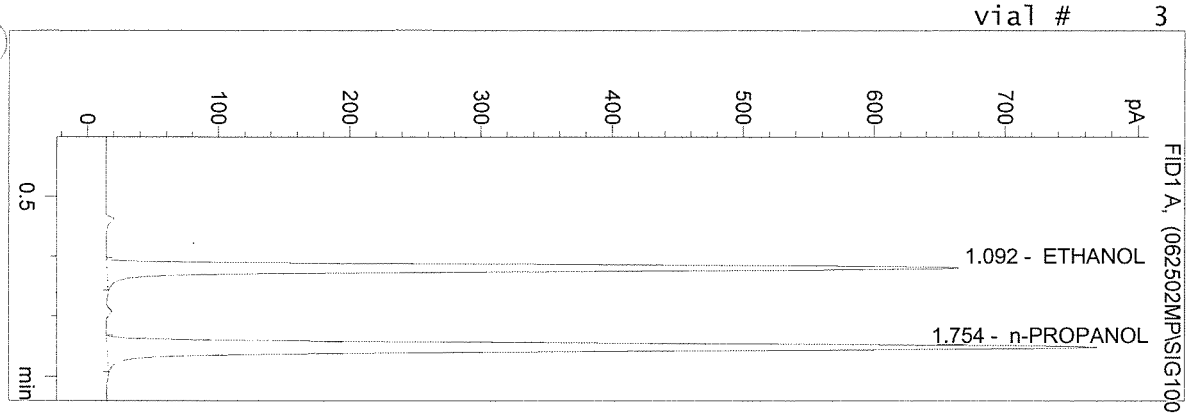
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

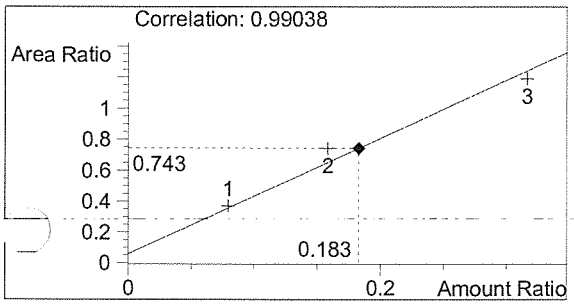
C:\HPCHEM\1\METHODS\BLDALCO3.M
6/25/02 7:02:44 AM
Instrument 3
DB-ALC1

0.158 CALIBRATOR
m pemberton

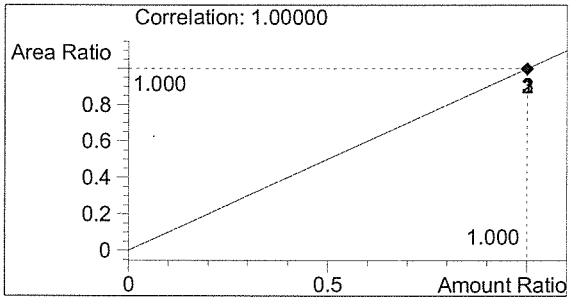
vial # 3



#	Compound	Area	RT
1	ETHANOL	2550	1.092
2	n-PROPANOL	3431	1.754
Totals:			



ETHANOL 0.183 mg/L

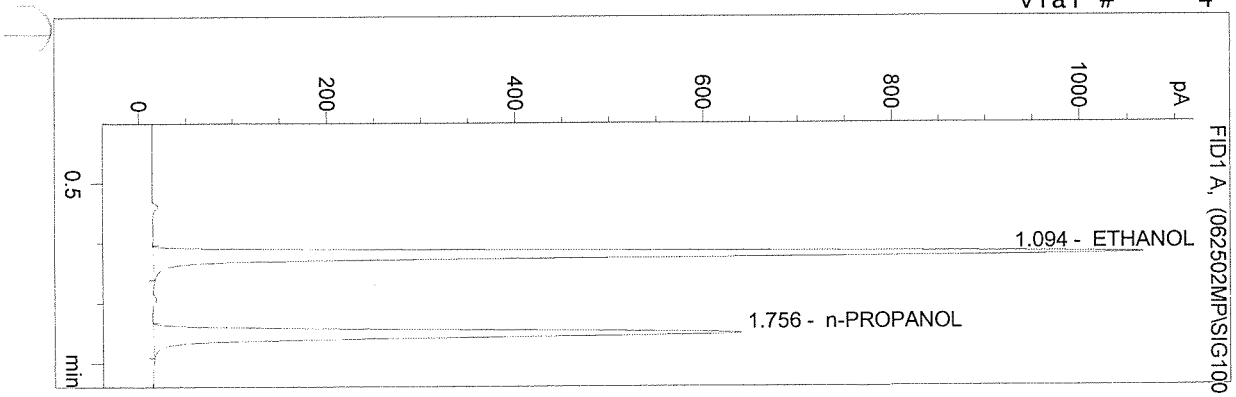


n-PROPANOL 1.000 mg/L

C:\HPCHEM\1\METHODS\BLDALCO3.M
6/25/02 7:05:53 AM
Instrument 3
DB-ALC1

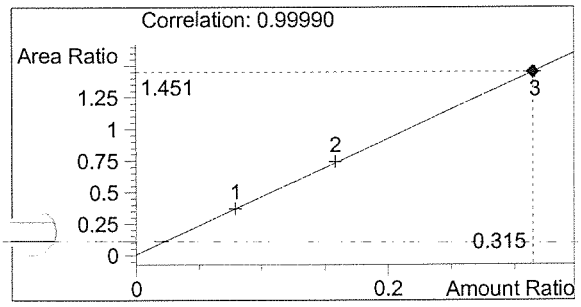
0.316 CALIBRATOR
m pemberton

vial # 4

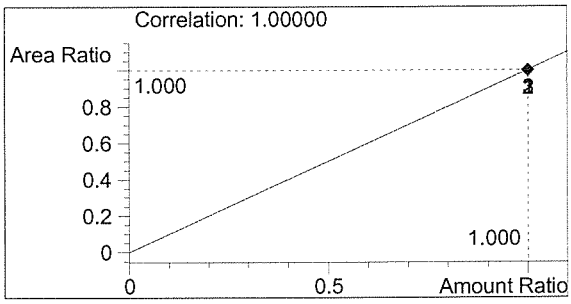


#	Compound	Area	RT
1	ETHANOL	4118	1.094
2	n-PROPANOL	2838	1.756

Totals:



ETHANOL 0.315 mg/L



n-PROPANOL 1.000 mg/L

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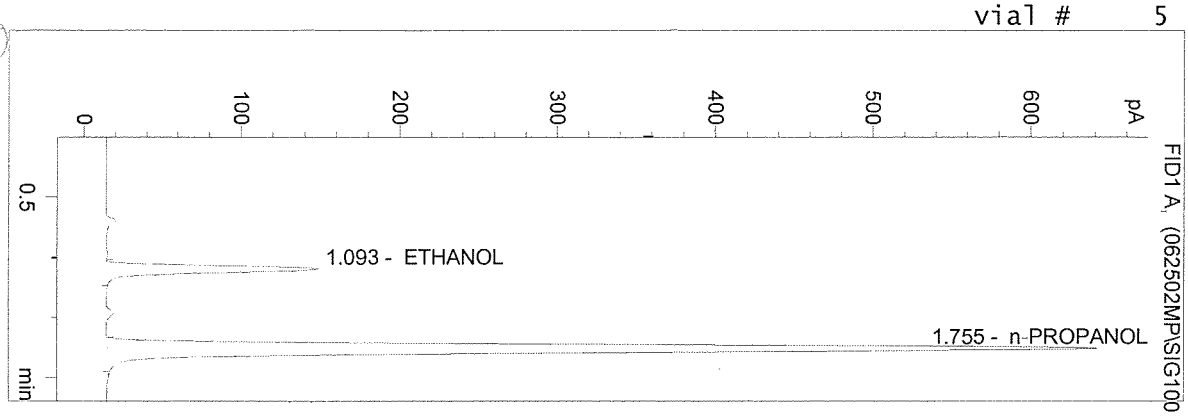
6/25/02 7:09:20 AM
Instrument 3
DB-ALC1

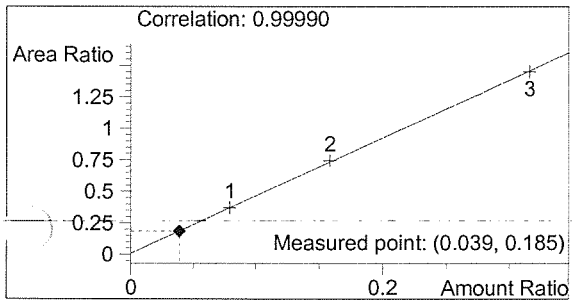
0.04 control
m pemberton

vial # 5

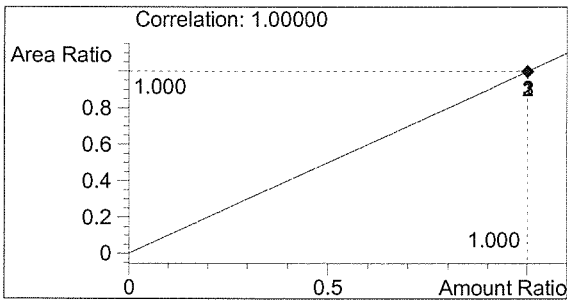


#	Compound	Area	RT
1	ETHANOL	532	1.093
2	n-PROPANOL	2869	1.755

Totals:



ETHANOL 0.039 mg/L



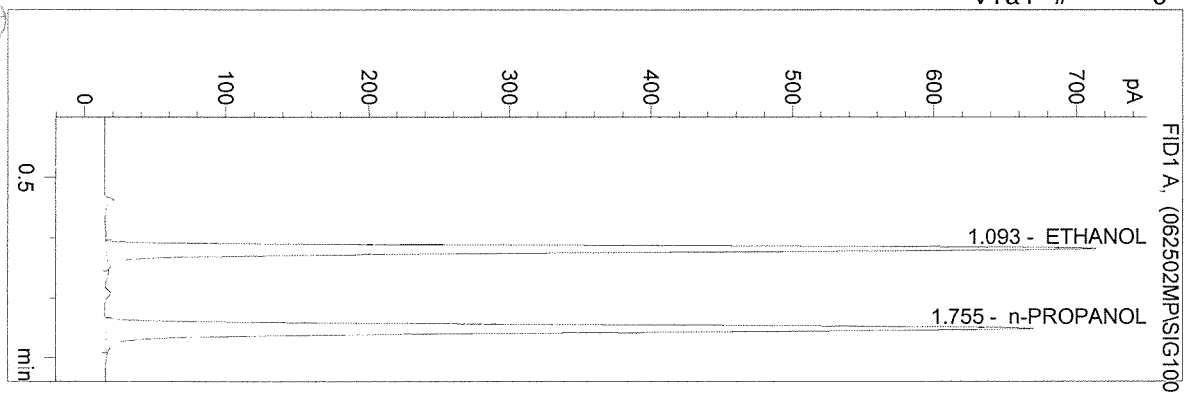
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
6/25/02 7:12:29 AM
Instrument 3
DB-ALC1

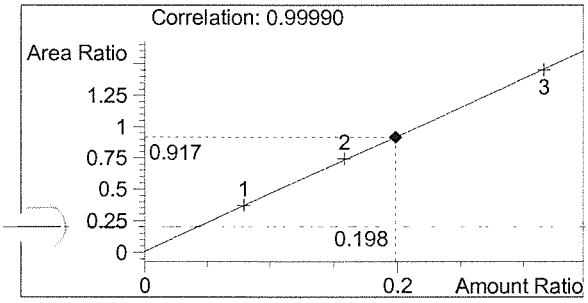
0.20 control
m pemberton

vial # 6

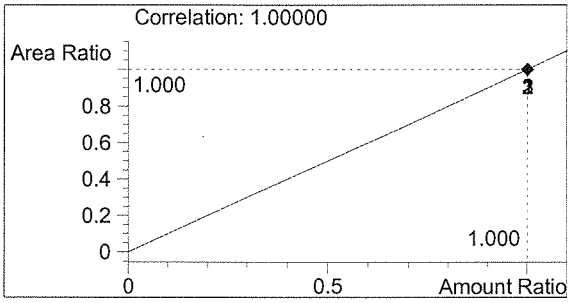


#	Compound	Area	RT
1	ETHANOL	2738	1.093
2	n-PROPANOL	2987	1.755

Totals:



ETHANOL 0.198 mg/L



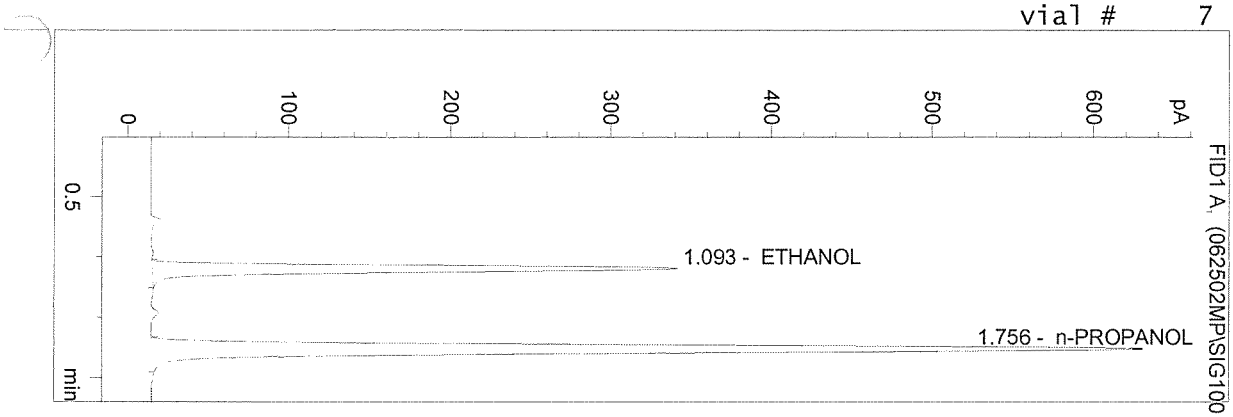
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
6/25/02 7:15:39 AM
Instrument 3
DB-ALC1

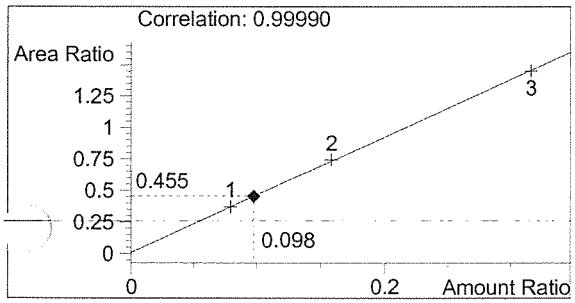
0.10 control
m pemberton

vial # 7

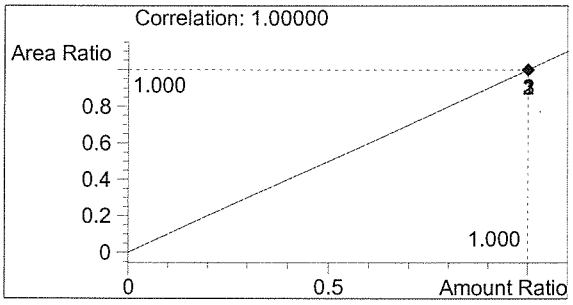


#	Compound	Area	RT
1	ETHANOL	1280	1.093
2	n-PROPANOL	2814	1.756

Totals:



ETHANOL 0.098 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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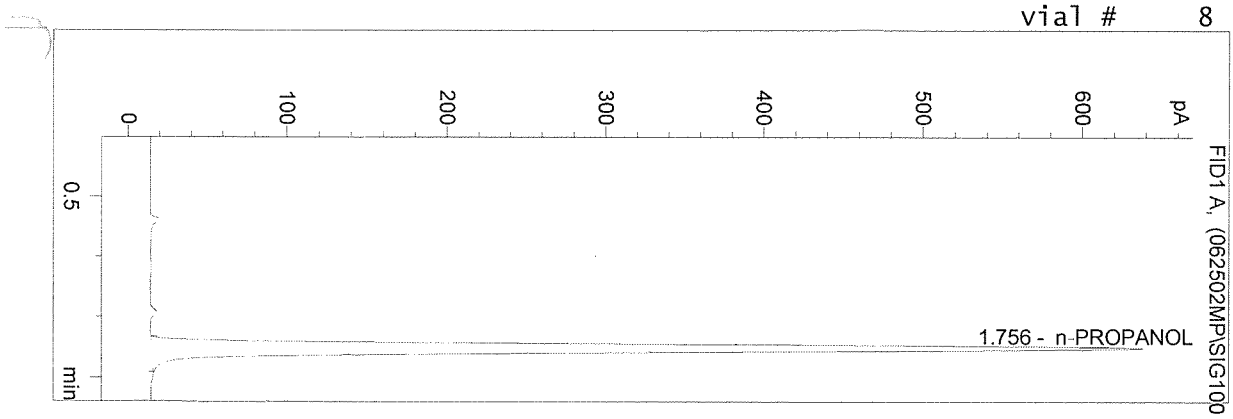
6/25/02 7:18:49 AM
Instrument 3
DB-ALC1

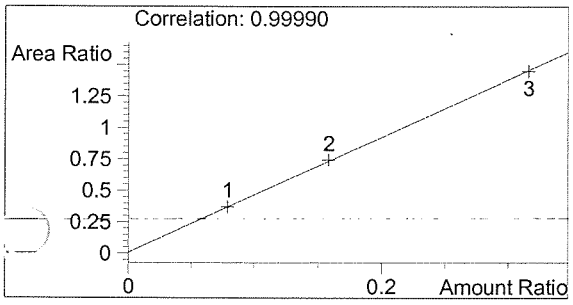
blk
m pemberton

vial # 8

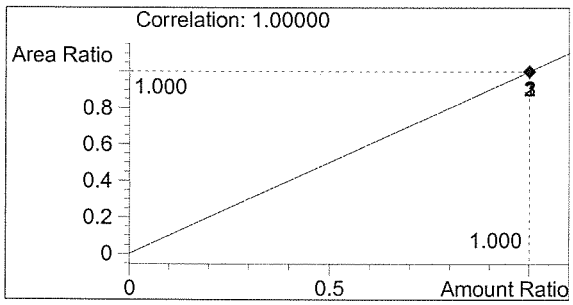


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	2843	1.756

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L

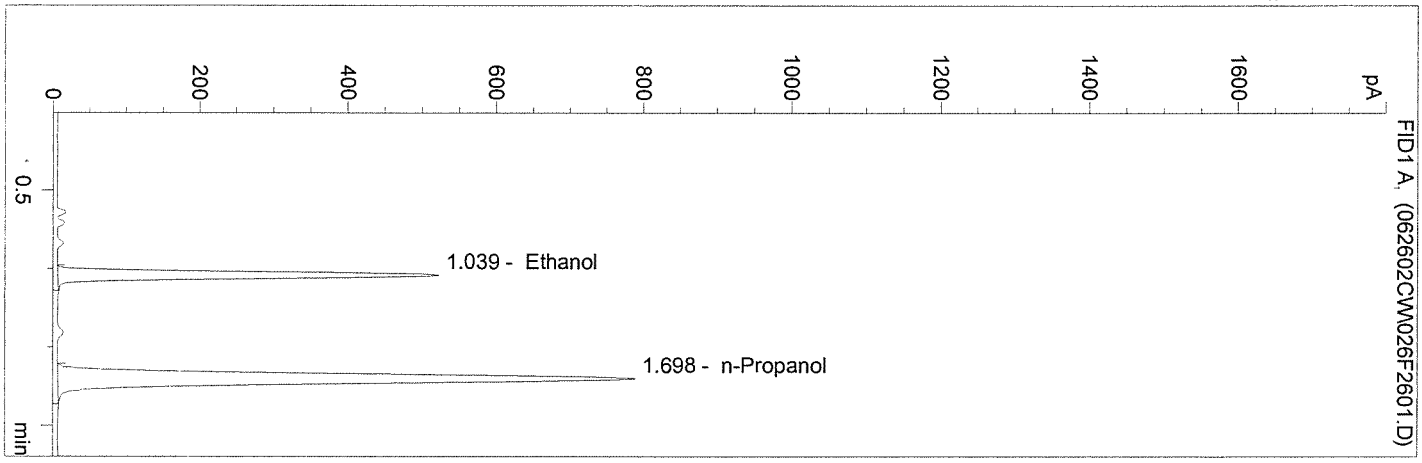
WASHINGTON STATE TOXICOLOGY LABORATORY

A:\HPCHEM\1\METHODS\BLDALCO.M
6/25/02 11:57:59 AM
Instrument 1
ALC1

Case # 023638

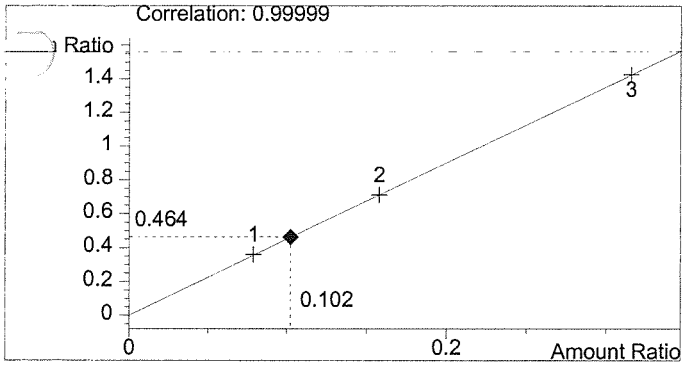
SIMSOL 02018
EGLE WEISS

vial # 26

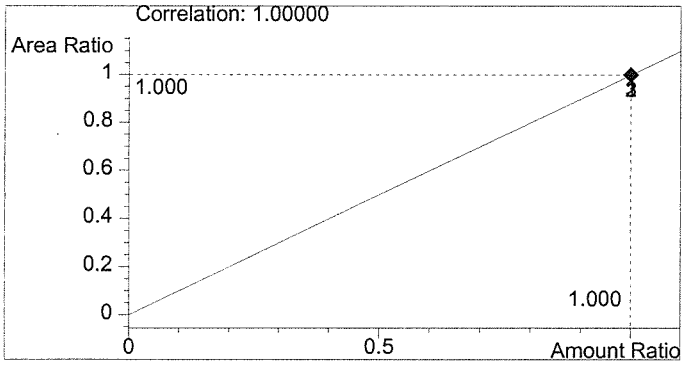


#	Compound	Area	RT
1	Ethanol	1502	1.039
2	n-Propanol	3240	1.698

Totals:



Ethanol 0.102 g/100ml



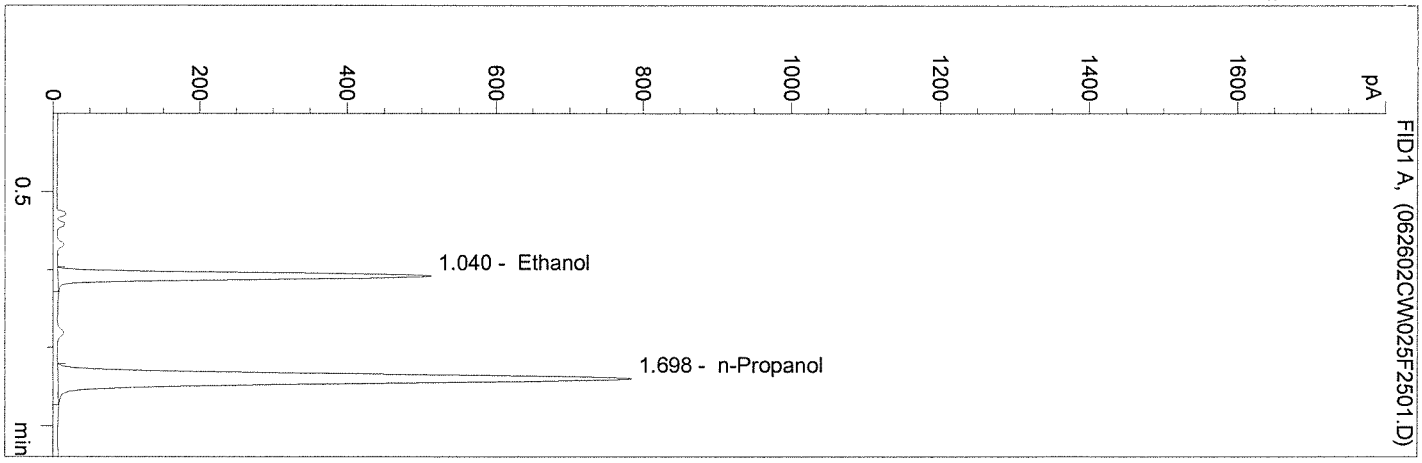
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

A:\HPCHEM\1\METHODS\BLDALCO.M
6/25/02 11:54:51 AM
Instrument 1
-ALC1

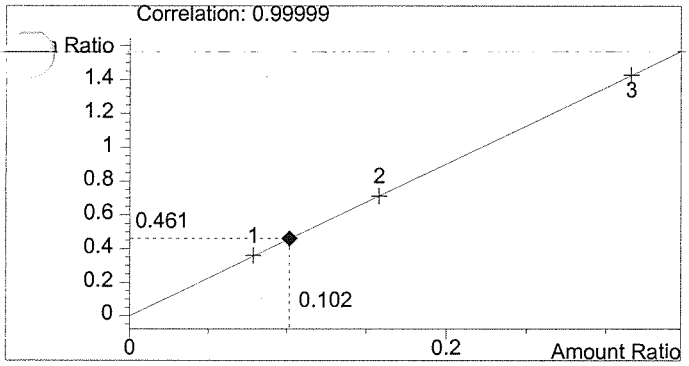
SIMSOL 02018
EGLE WEISS

vial # 25

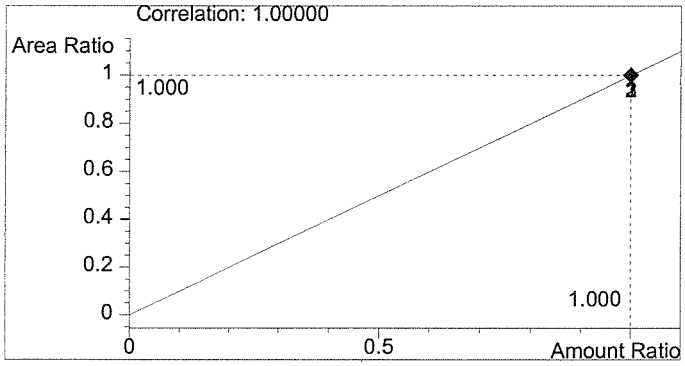


#	Compound	Area	RT
1	Ethanol	1488	1.040
2	n-Propanol	3228	1.698

Totals:



Ethanol 0.102 g/100ml



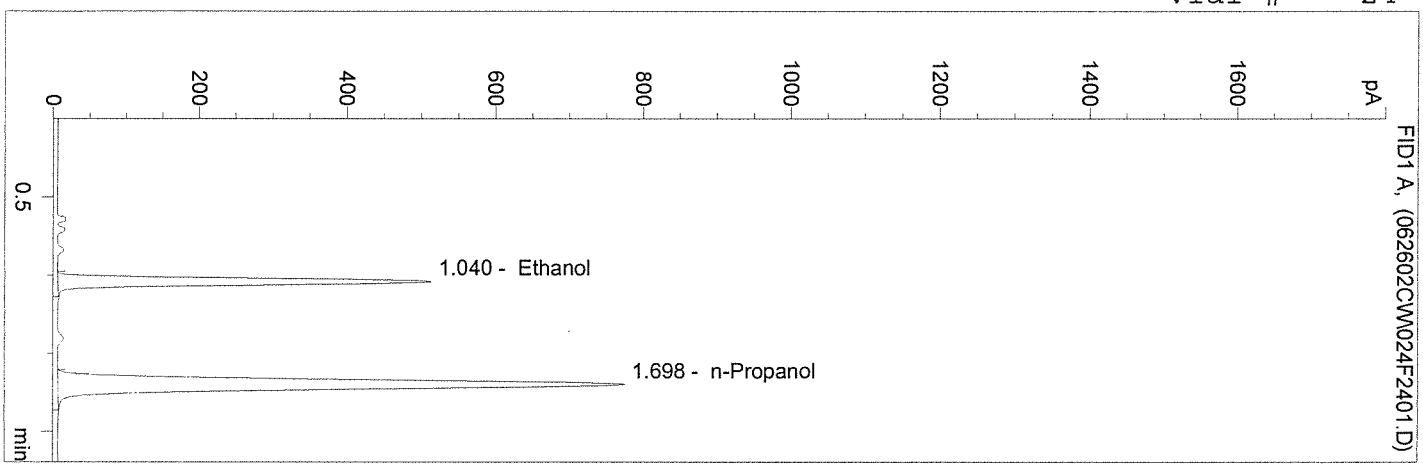
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

A:\HPCHEM\1\METHODS\BLDALCO.M
6/25/02 11:51:43 AM
Instrument 1
ALC1

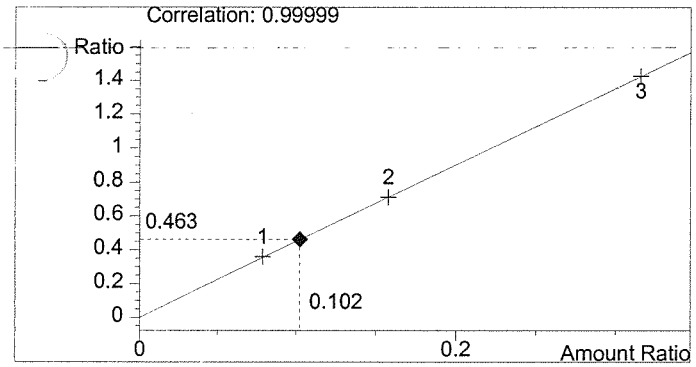
SIMSOL 02018
EGLE WEISS

vial # 24

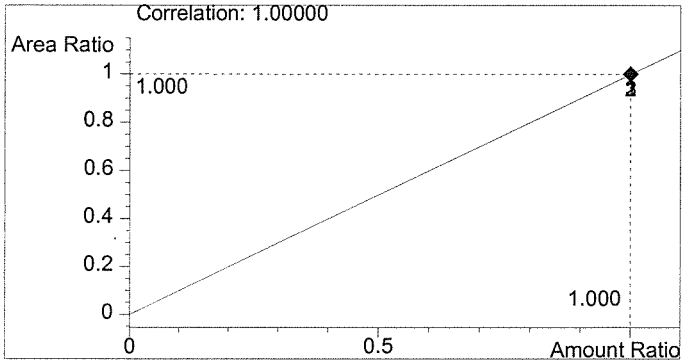


#	Compound	Area	RT
1	Ethanol	1479	1.040
2	n-Propanol	3192	1.698

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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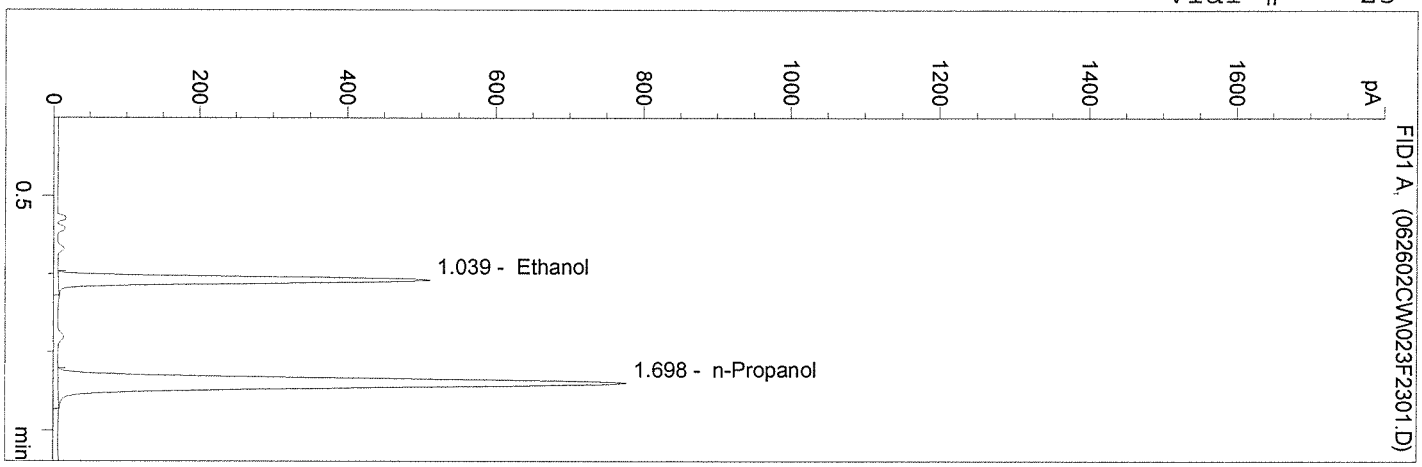
Instrument 1
-ALC1

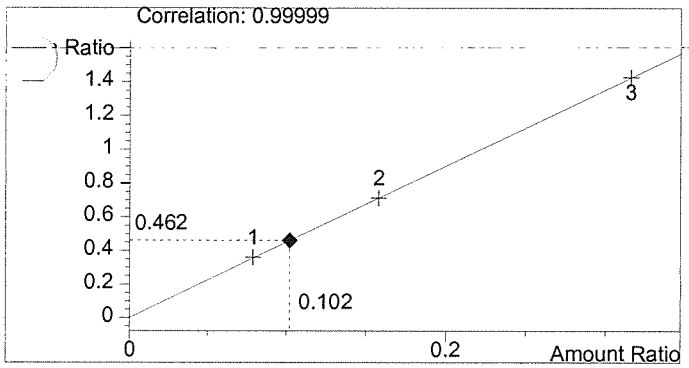
SIMSOL 02018
EGLE WEISS

vial # 23

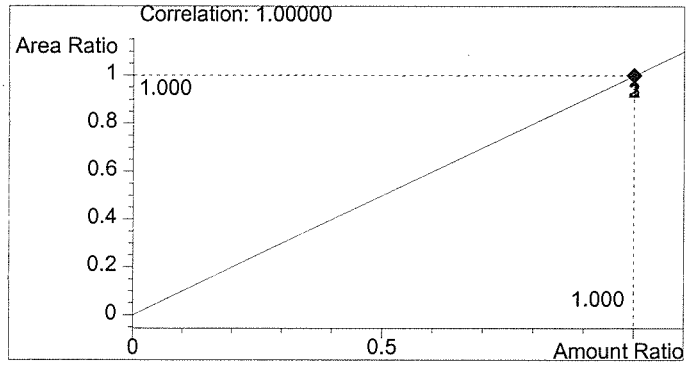


#	Compound	Area	RT
1	Ethanol	1474	1.039
2	n-Propanol	3191	1.698

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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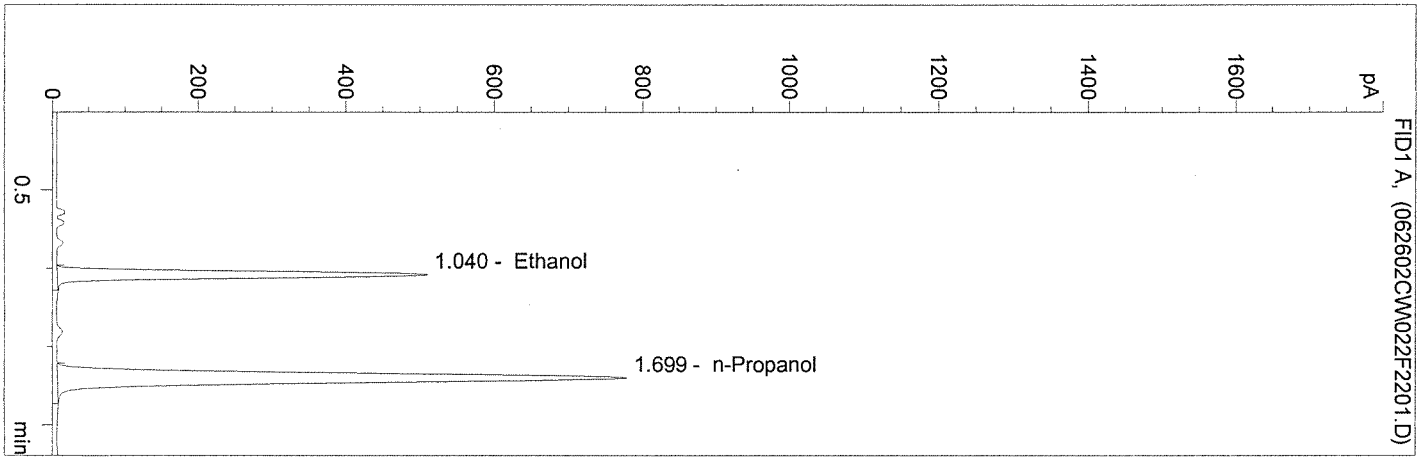
Instrument 1
ALC1

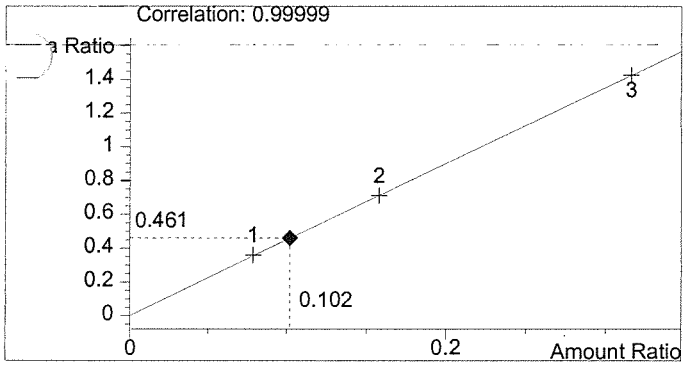
SIMSOL 02018
EGLE WEISS

vial # 22

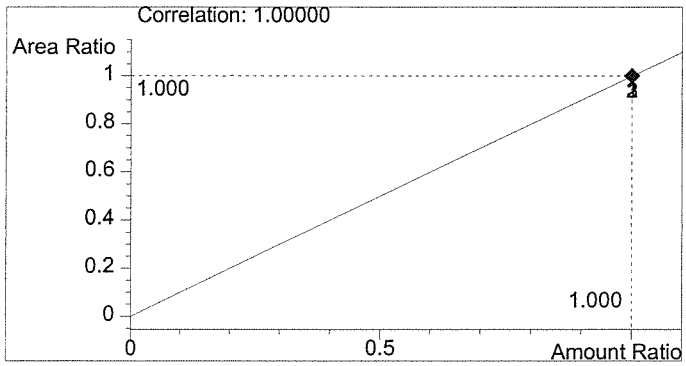


#	Compound	Area	RT
1	Ethanol	1482	1.040
2	n-Propanol	3214	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 1
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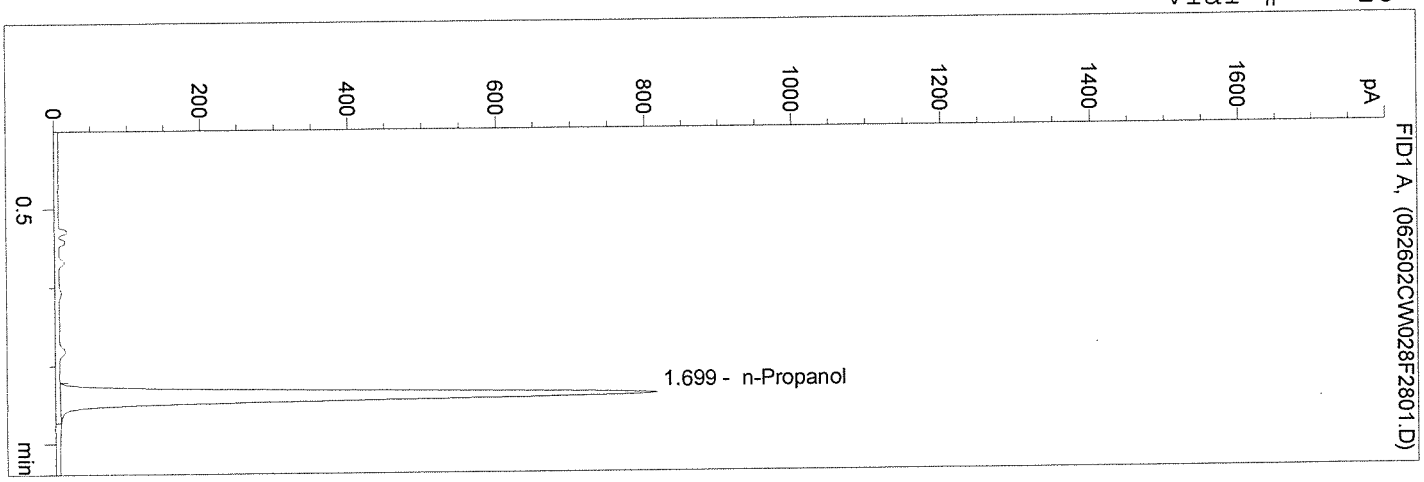
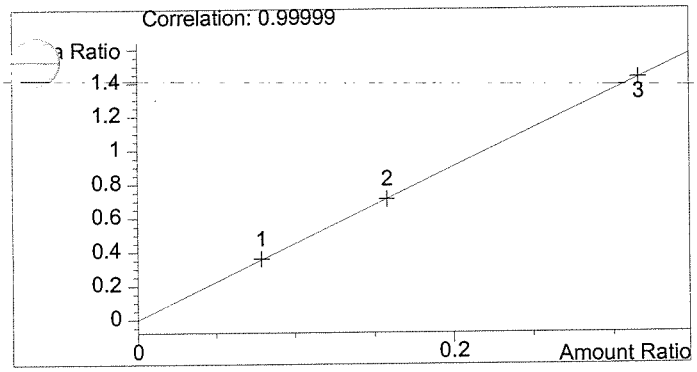
BLK
EGLE WEISS

vial # 28

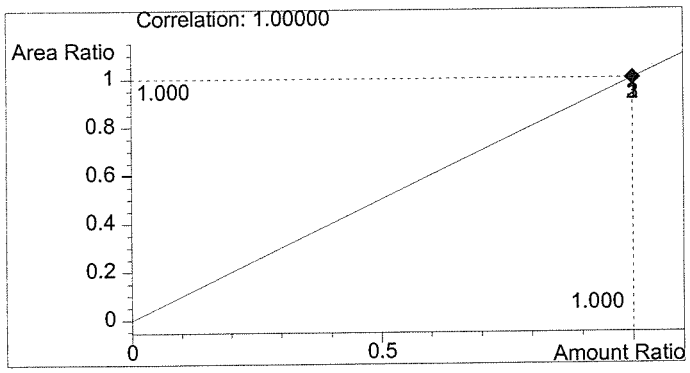


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3355	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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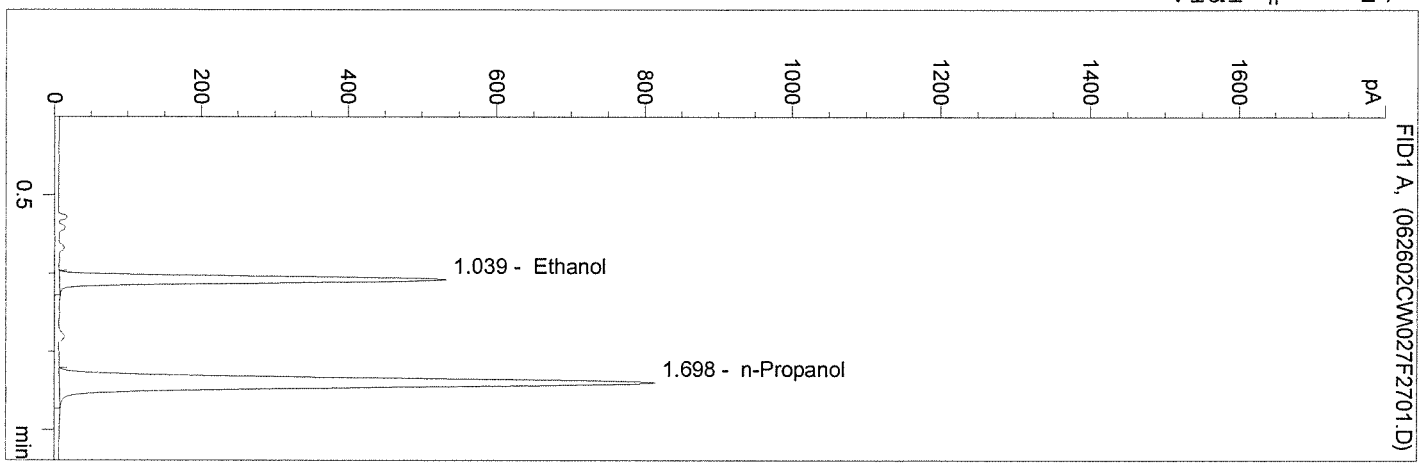
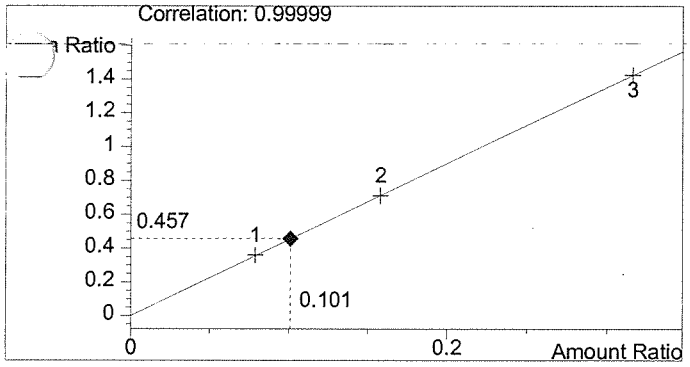
0.100 CONTR
EGLE WEISS

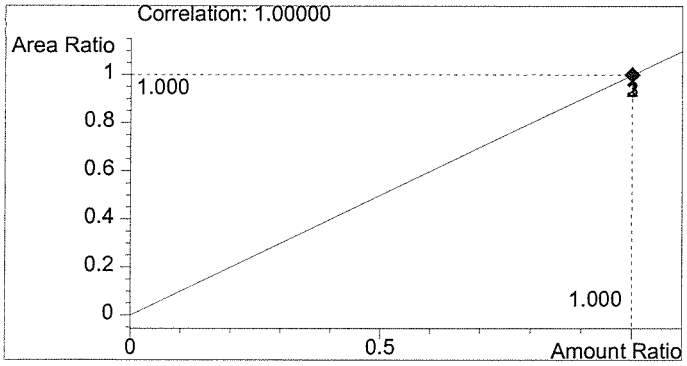
vial # 27



#	Compound	Area	RT
1	Ethanol	1528	1.039
2	n-Propanol	3346	1.698
Totals:			



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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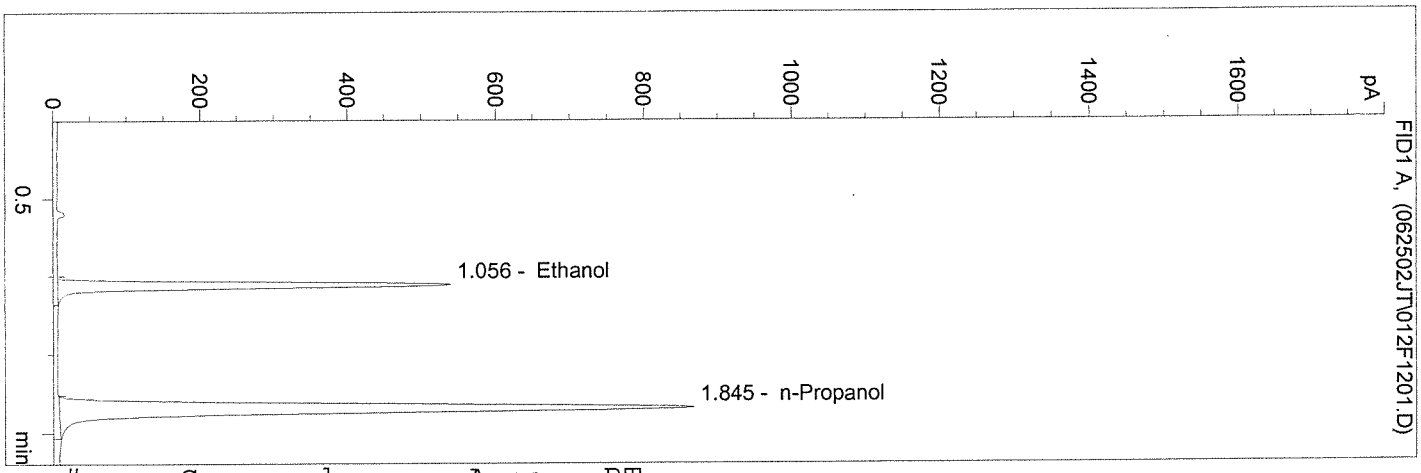
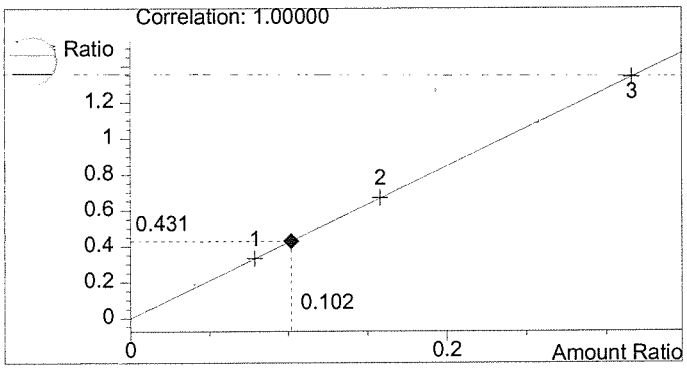
vial # 12

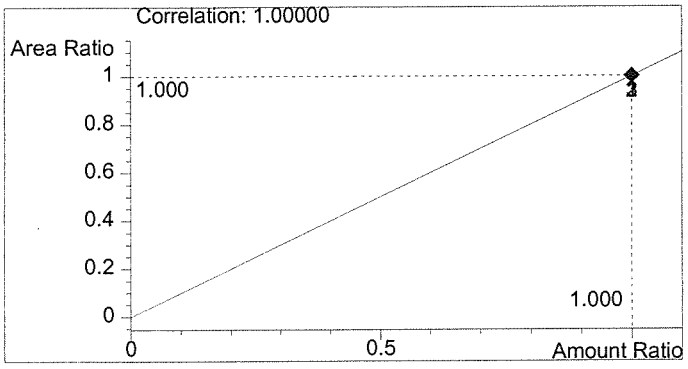


#	Compound	Area	RT
1	Ethanol	1428	1.056
2	n-Propanol	3316	1.845

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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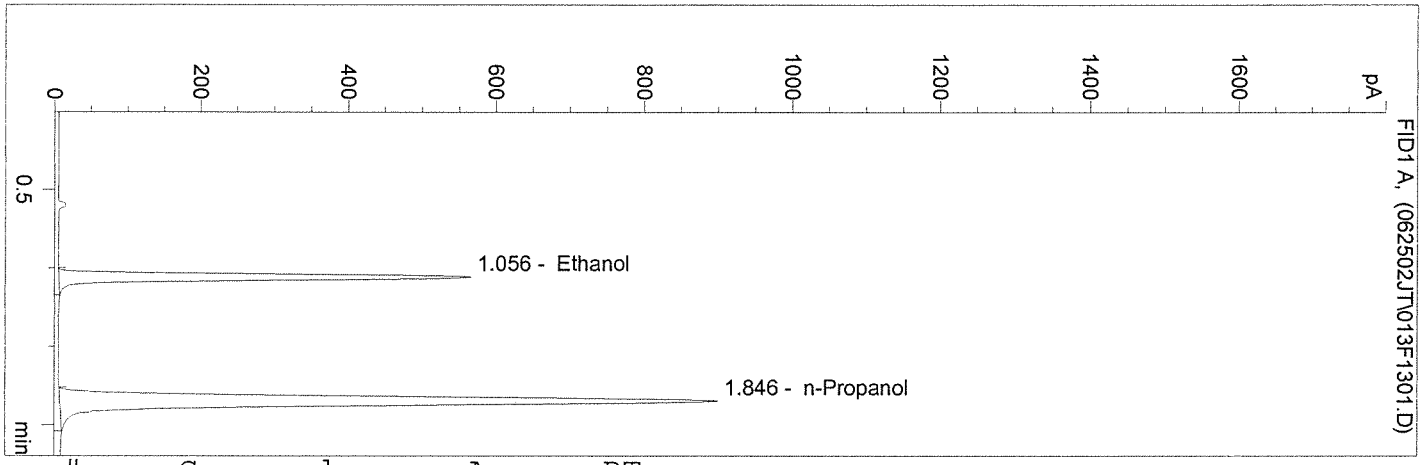
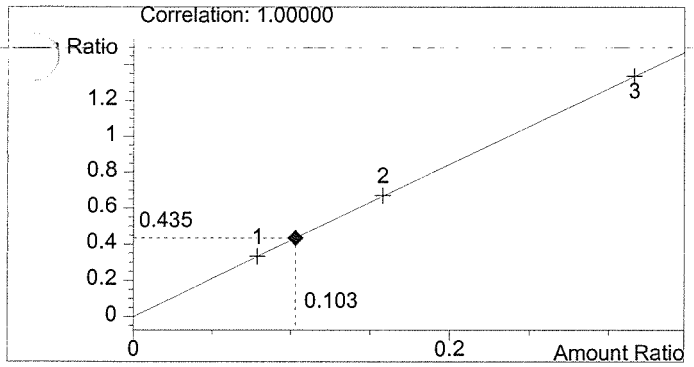
JAYNE THATCHER

vial # 13

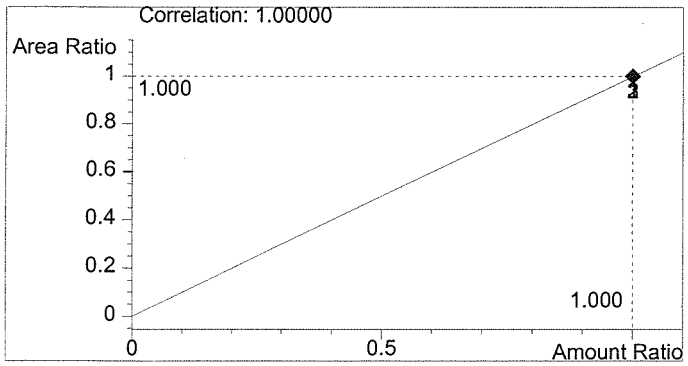


#	Compound	Area	RT
1	Ethanol	1498	1.056
2	n-Propanol	3441	1.846

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

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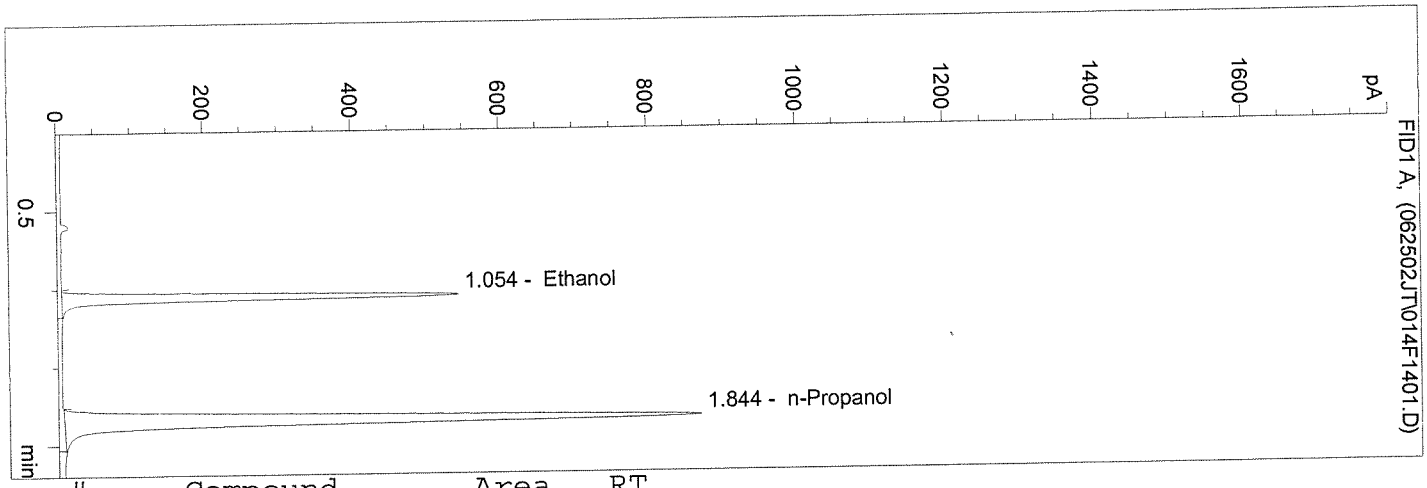
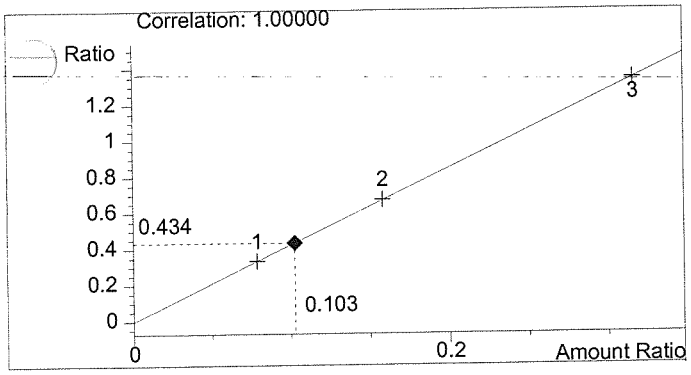
JAYNE THATCHER

vial # 14

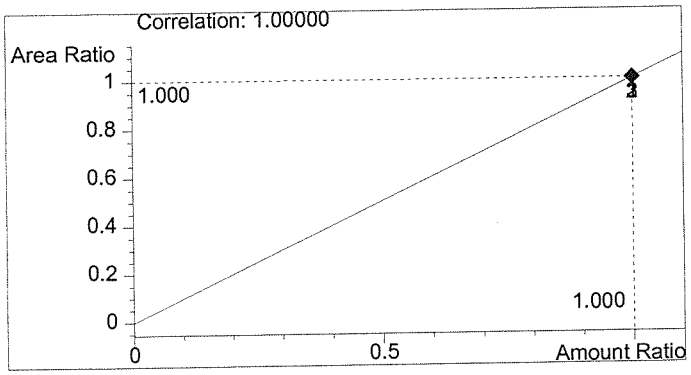


#	Compound	Area	RT
1	Ethanol	1447	1.054
2	n-Propanol	3336	1.844

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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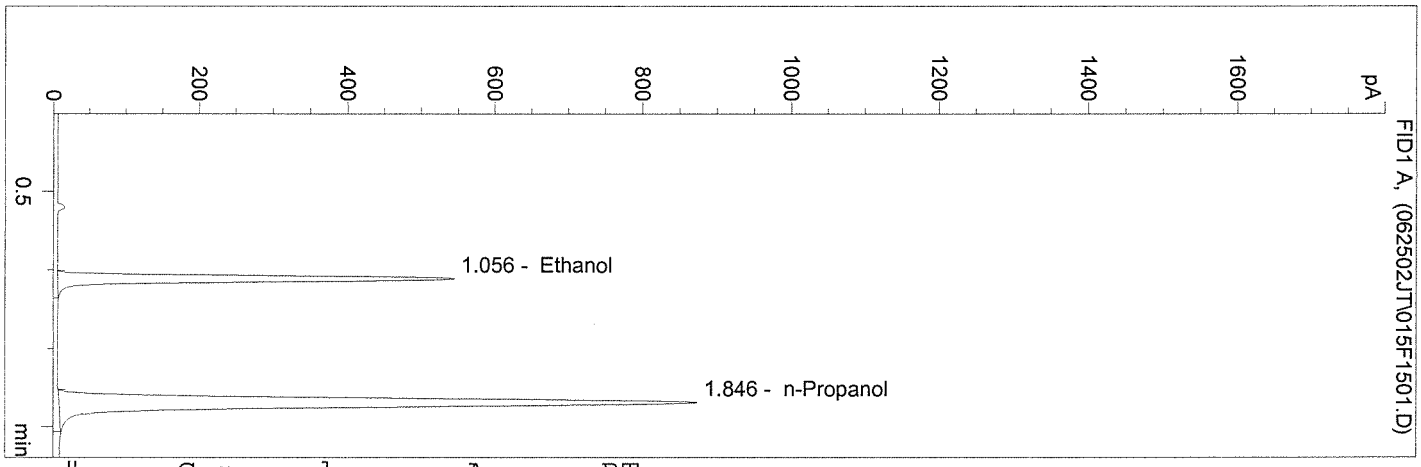
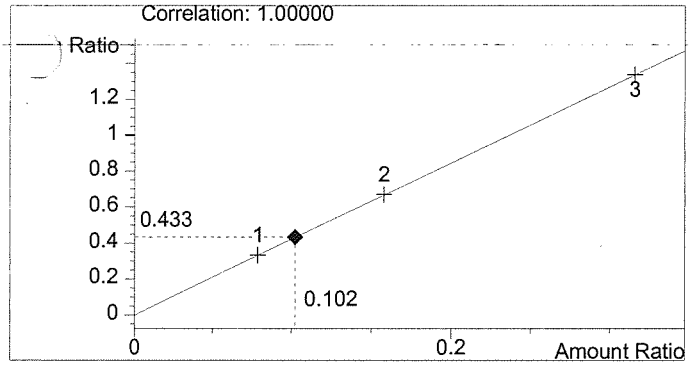
JAYNE THATCHER

vial # 15

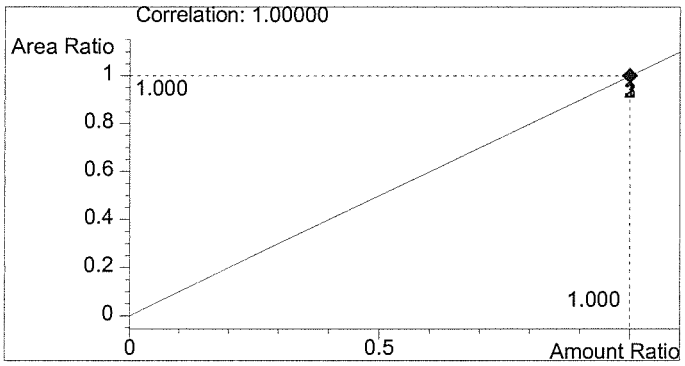


#	Compound	Area	RT
1	Ethanol	1443	1.056
2	n-Propanol	3335	1.846

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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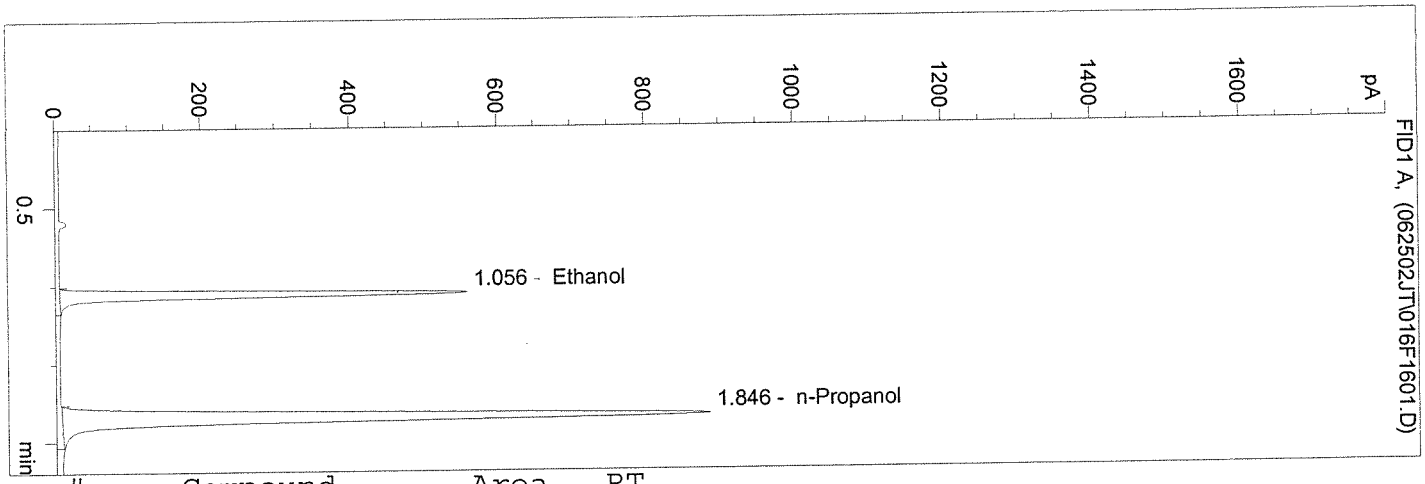
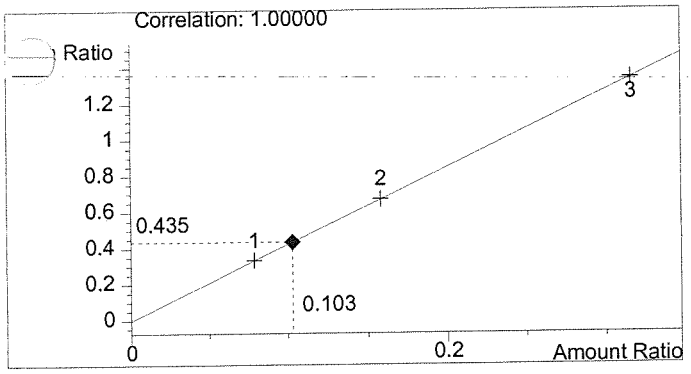
JAYNE THATCHER

vial # 16

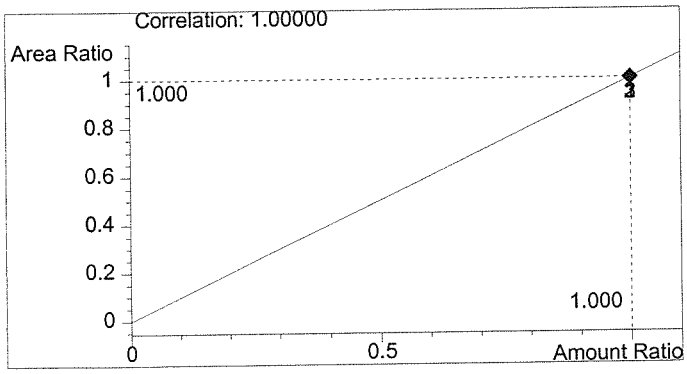


#	Compound	Area	RT
1	Ethanol	1478	1.056
2	n-Propanol	3394	1.846

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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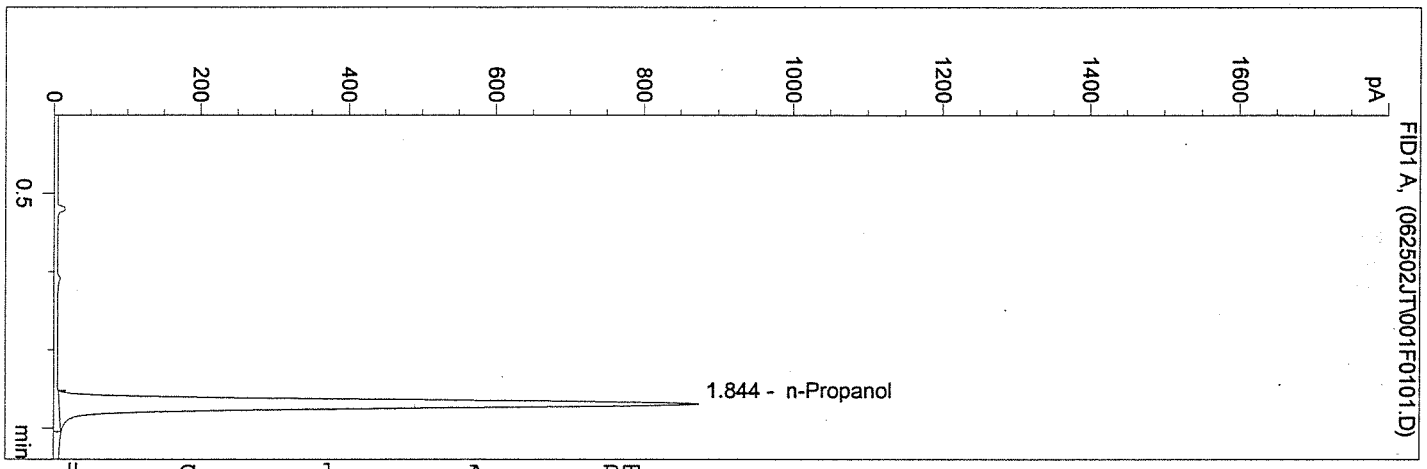
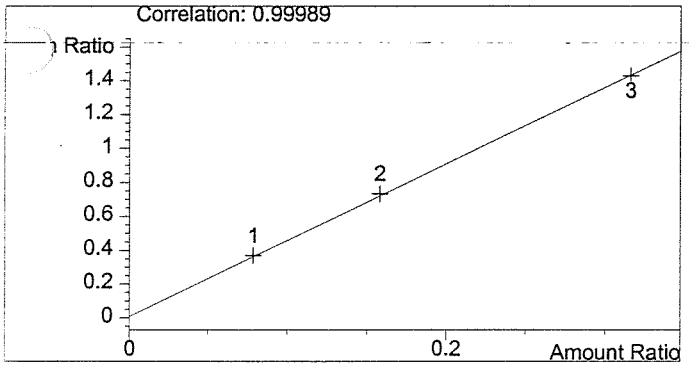
JAYNE THATCHER

vial # 1

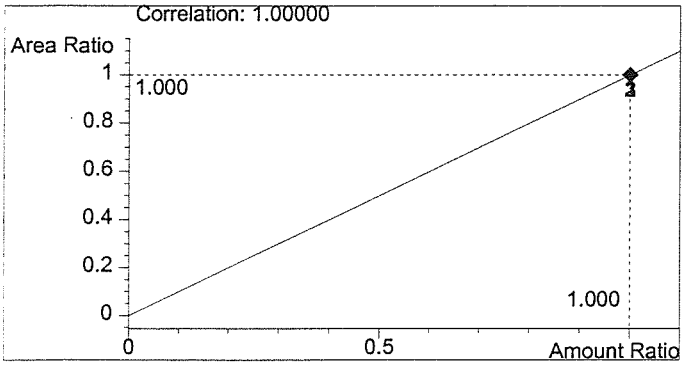


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3335	1.844

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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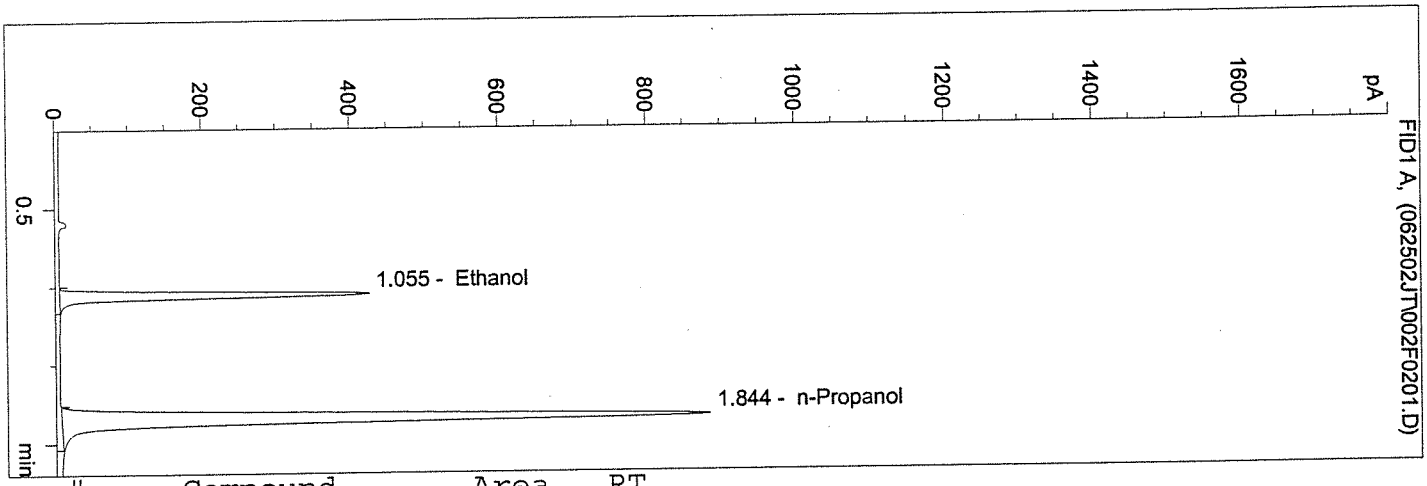
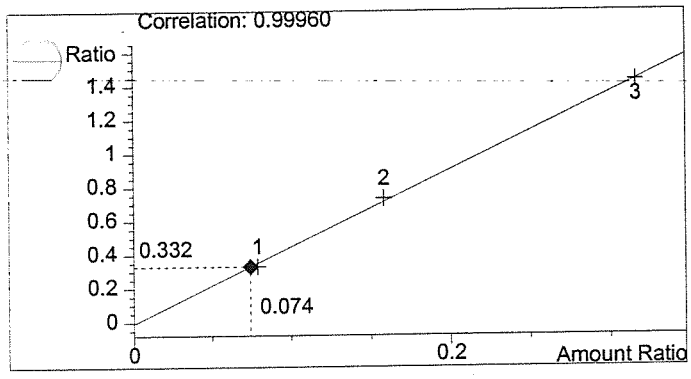
0.079 CAL
JAYNE THATCHER

vial # 2

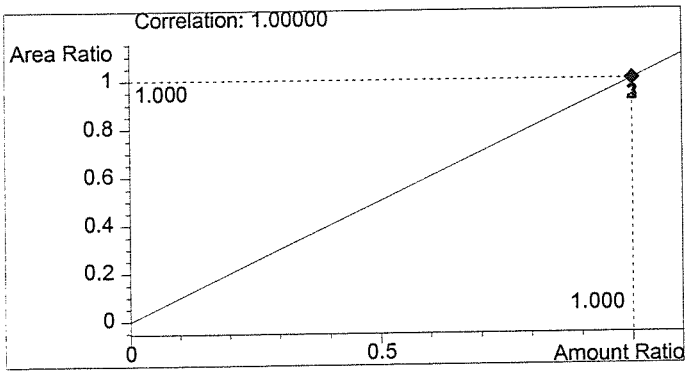


#	Compound	Area	RT
1	Ethanol	1121	1.055
2	n-Propanol	3376	1.844

Totals:



Ethanol - 0.074 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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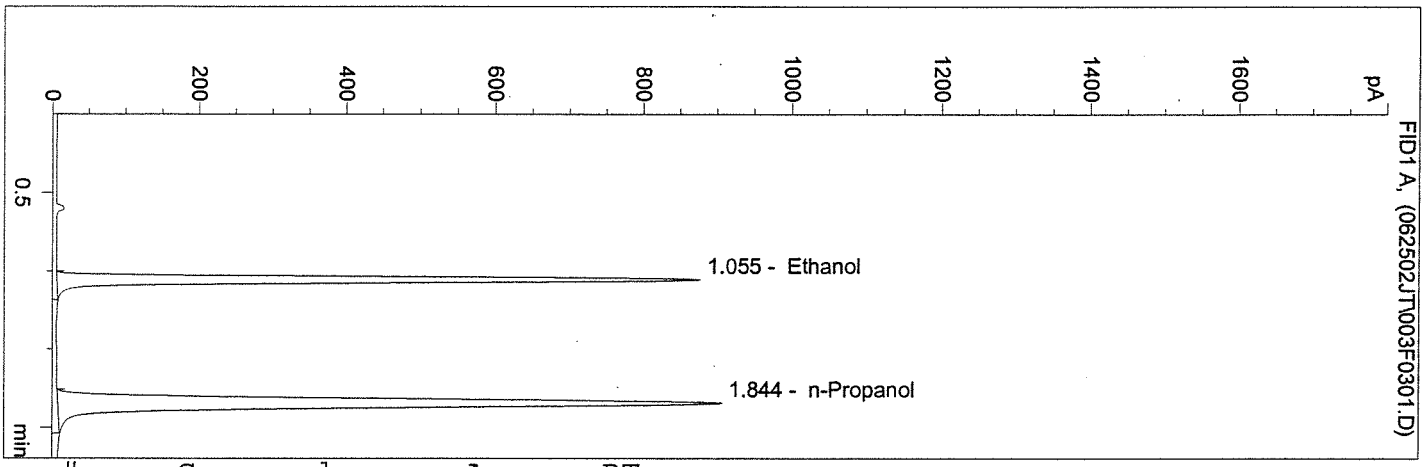
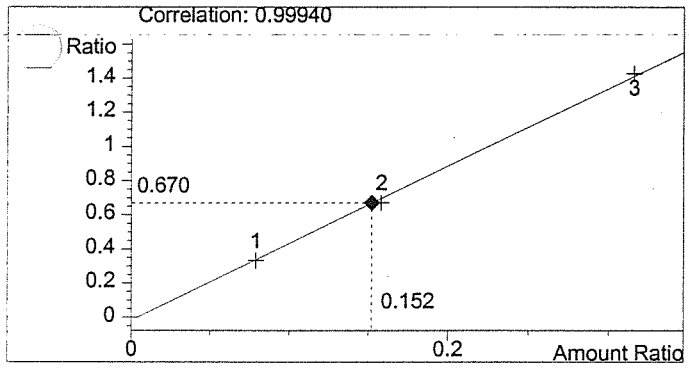
0.158 CAL
JAYNE THATCHER

vial # 3

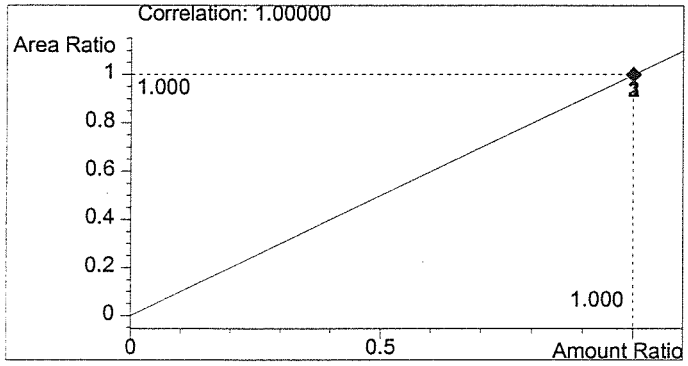


#	Compound	Area	RT
1	Ethanol	2321	1.055
2	n-Propanol	3462	1.844

Totals:



Ethanol 0.152 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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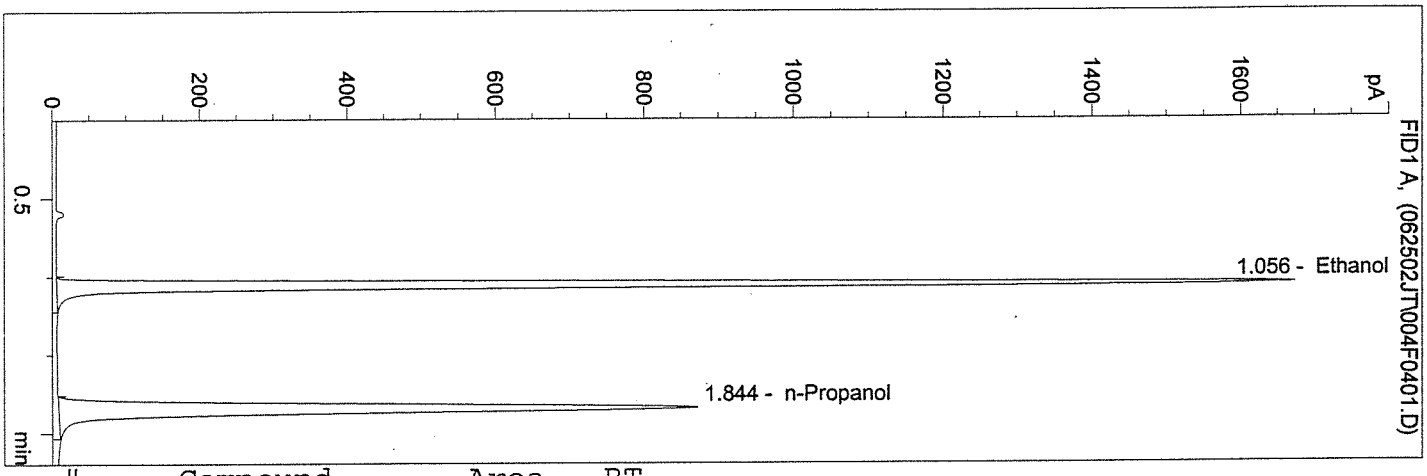
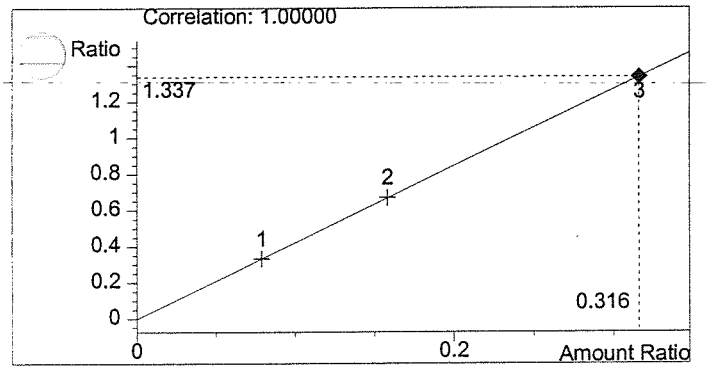
0.316 CAL
JAYNE THATCHER

vial # 4

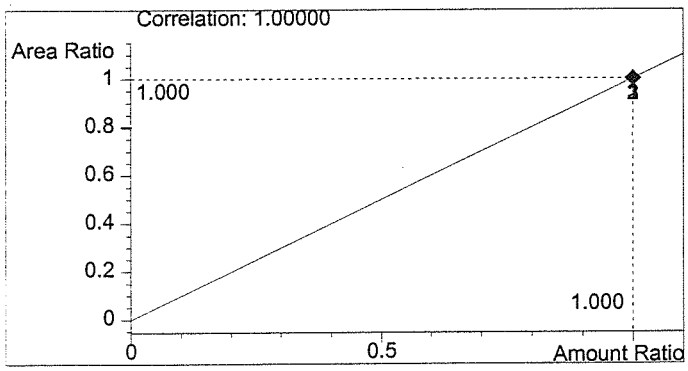


#	Compound	Area	RT
1	Ethanol	4438	1.056
2	n-Propanol	3319	1.844

Totals:



Ethanol 0.316 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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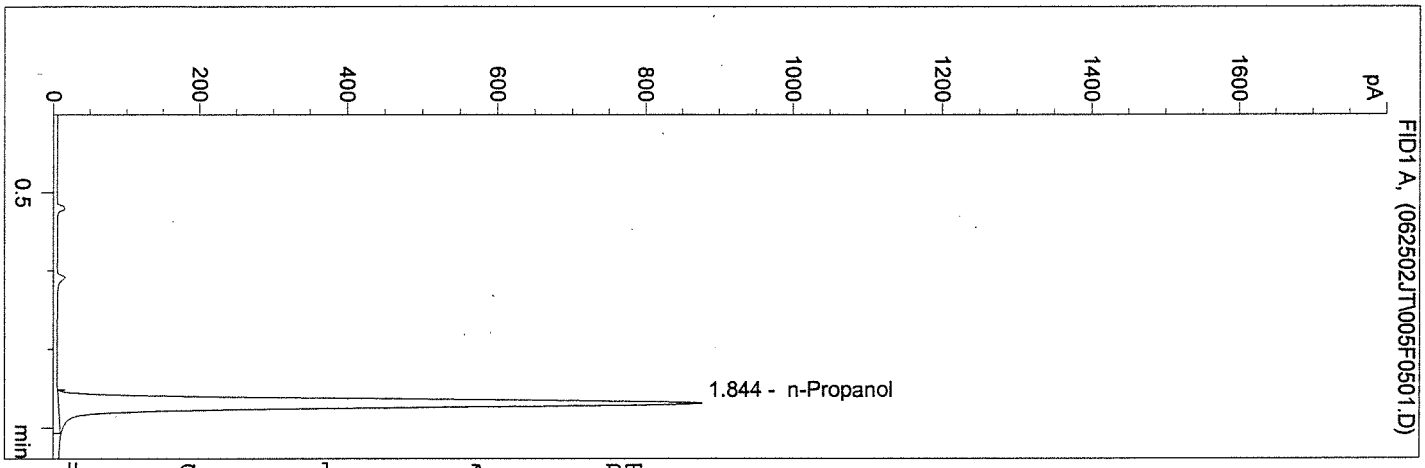
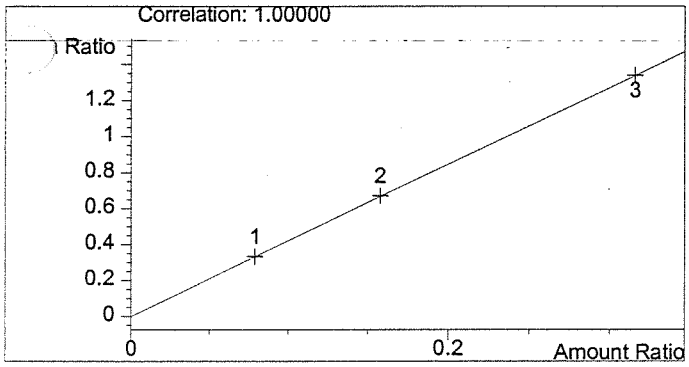
vial # 5

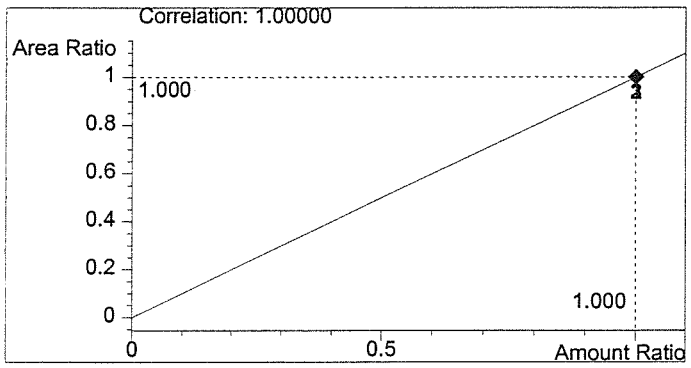


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3348	1.844

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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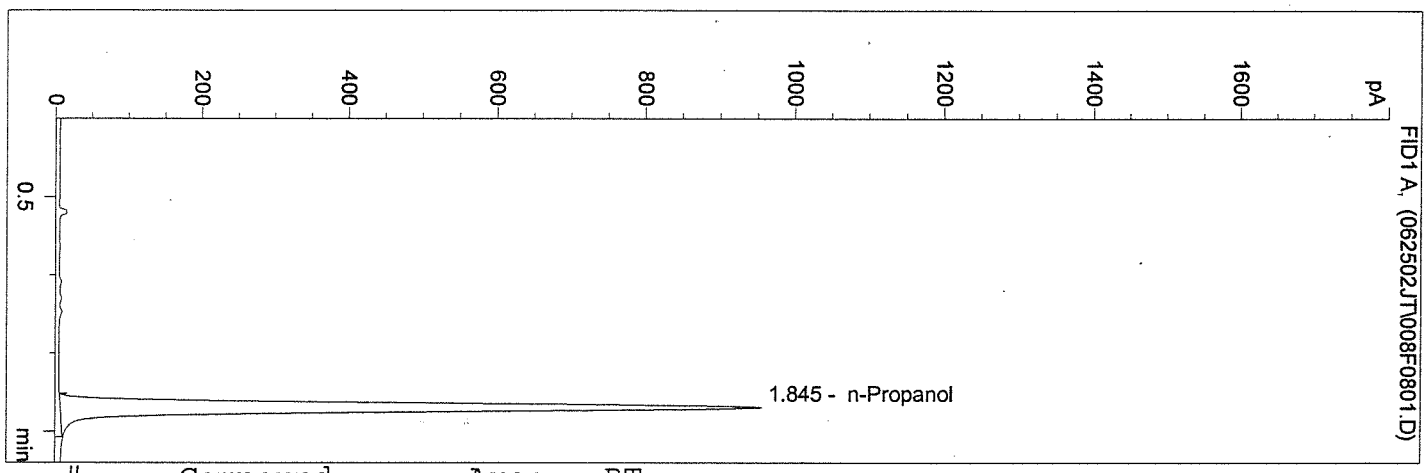
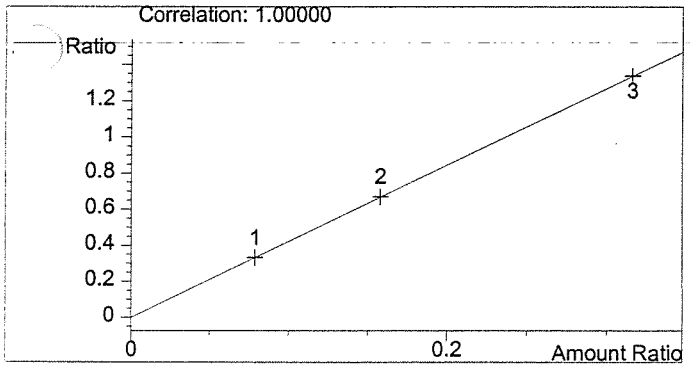
JAYNE THATCHER

vial # 8

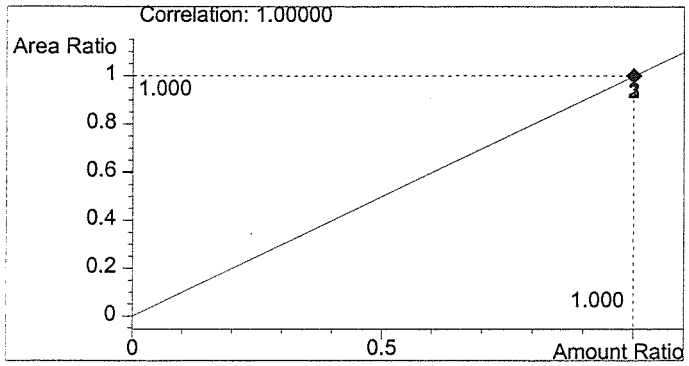


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3641	1.845

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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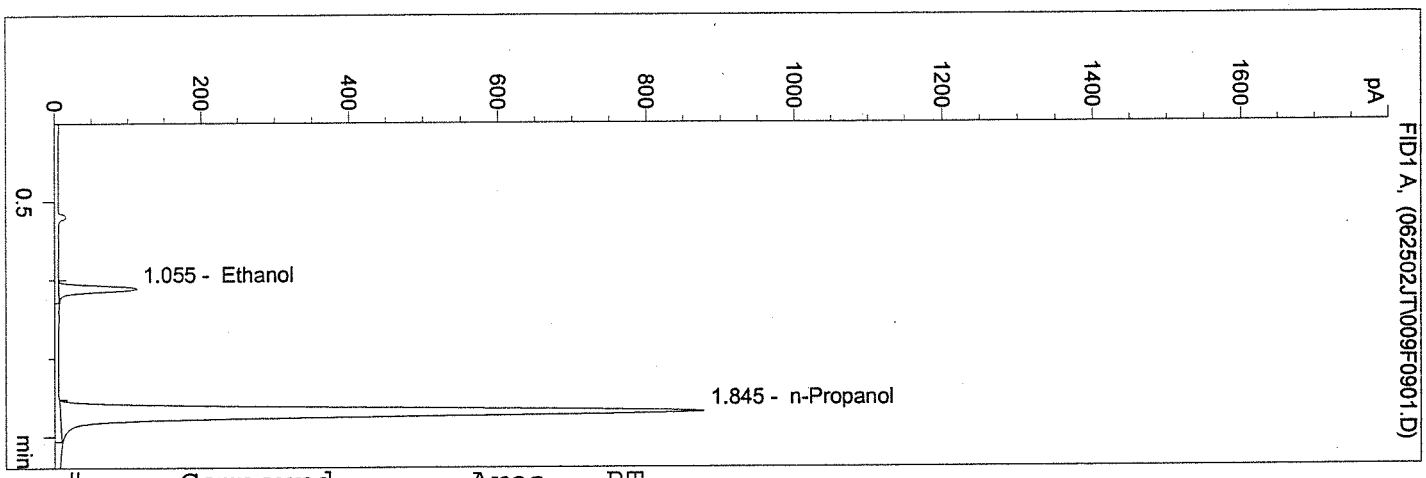
Instrument 2
ALC1

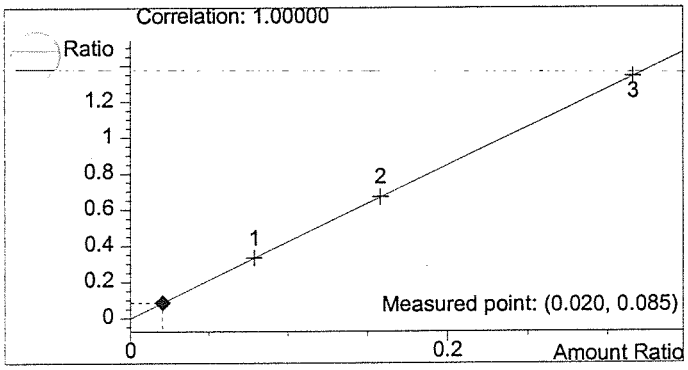
0.02 STD
JAYNE THATCHER

vial # 9

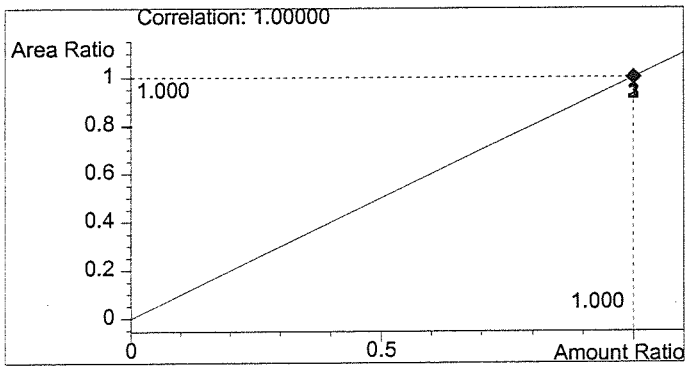


#	Compound	Area	RT
1	Ethanol	286	1.055
2	n-Propanol	3353	1.845

Totals:



Ethanol 0.020 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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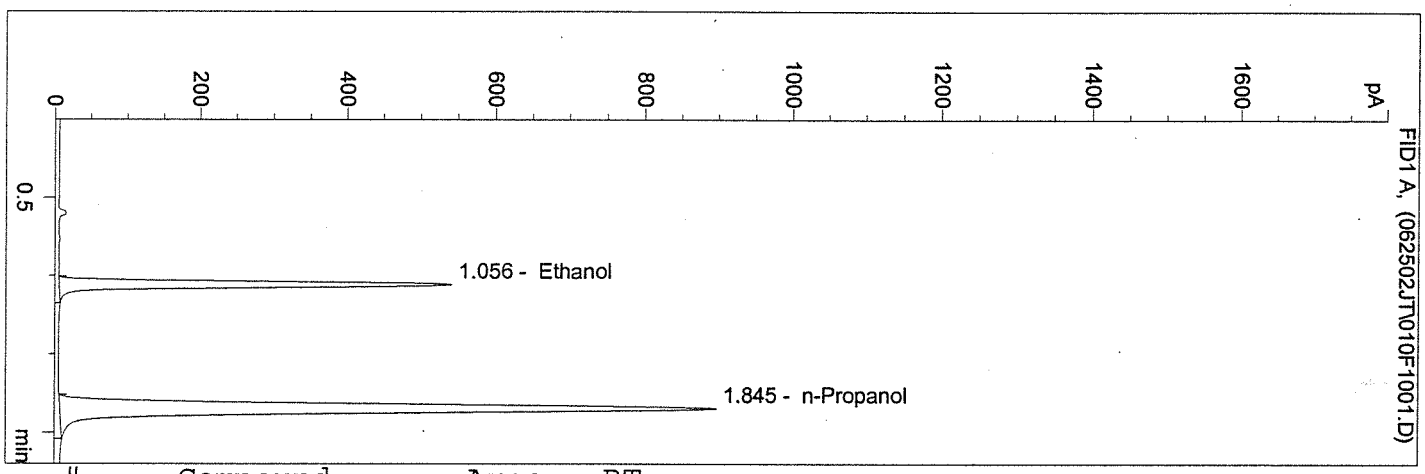
Instrument 2
D ALC1

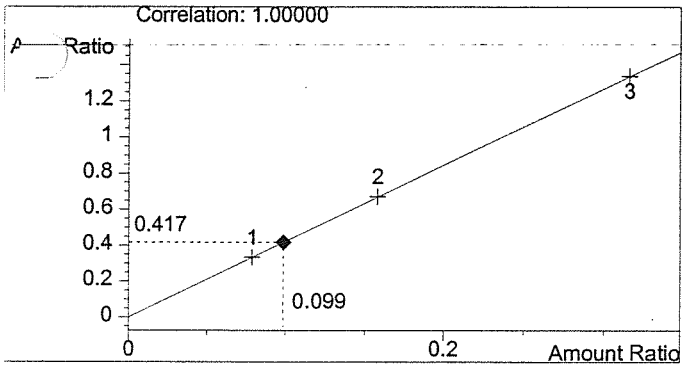
0.10 CONTROL
JAYNE THATCHER

vial # 10

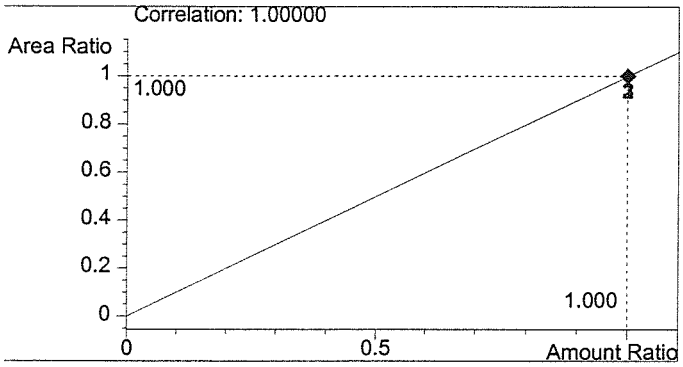


#	Compound	Area	RT
1	Ethanol	1428	1.056
2	n-Propanol	3421	1.845

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
[illegible]-ALC1

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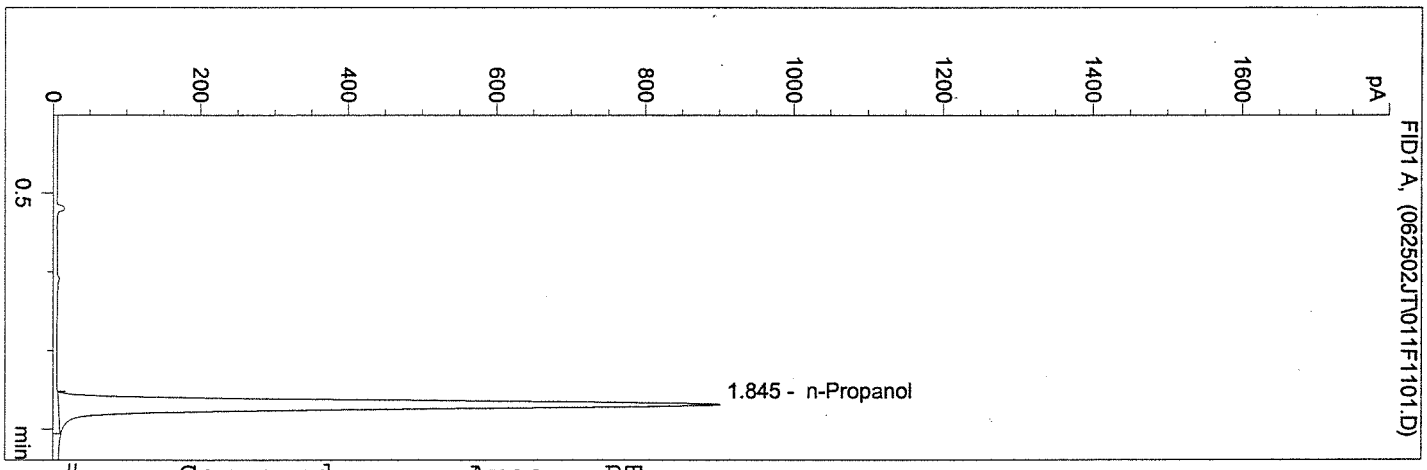
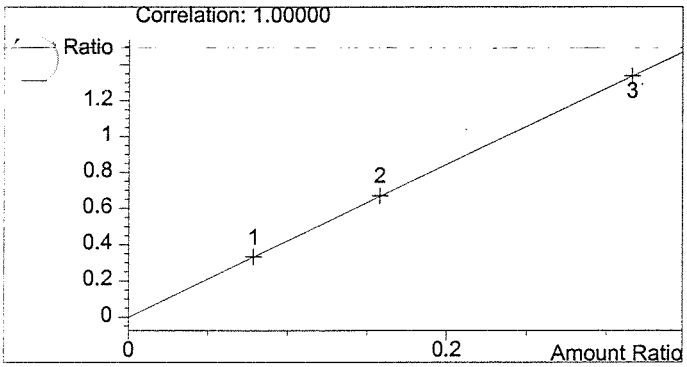
JAYNE THATCHER

vial # 11

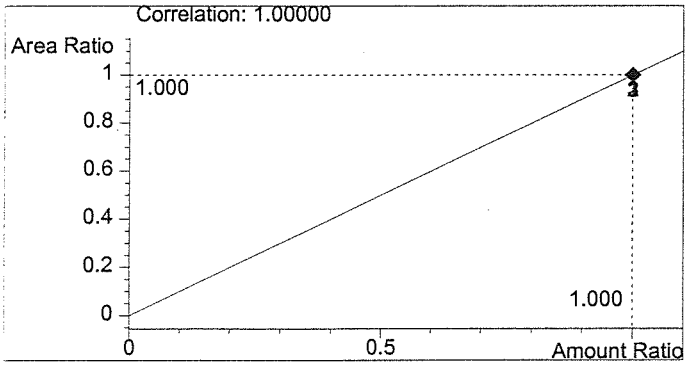


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3443	1.845

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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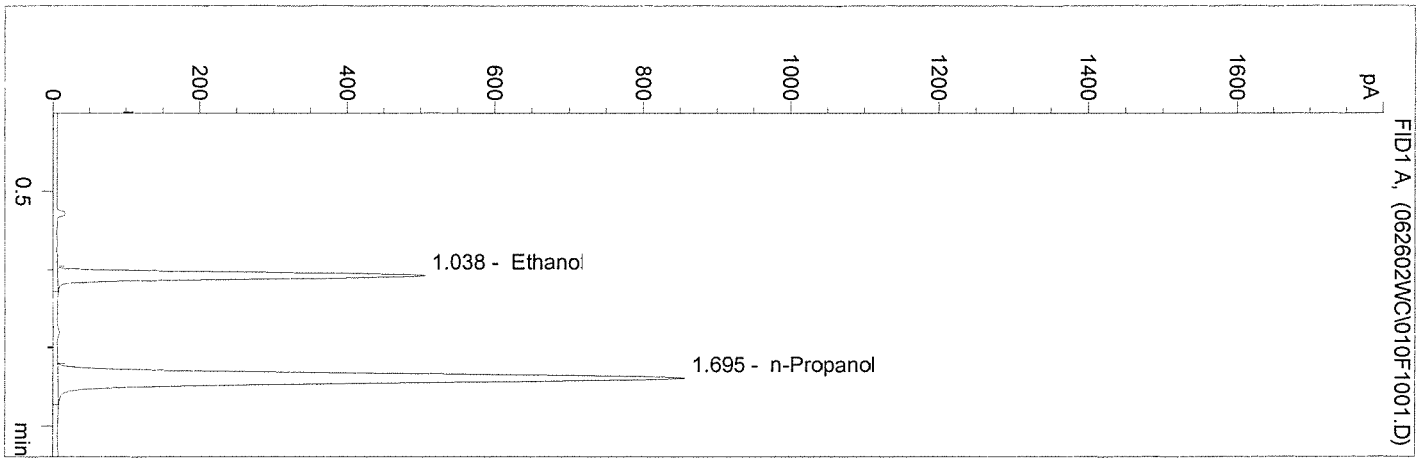
Instrument 1
-ALC1

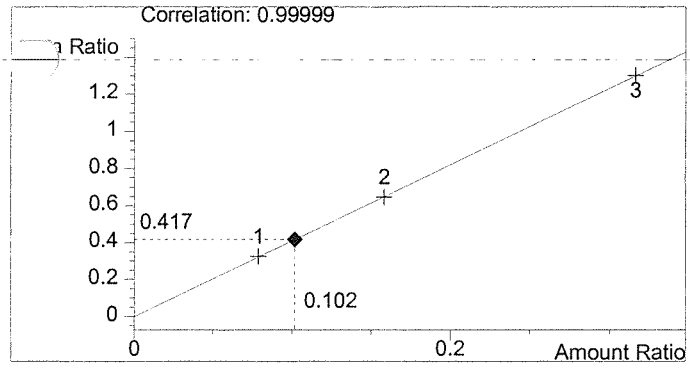
SIM 02018
WP MARSHALL

vial # 10

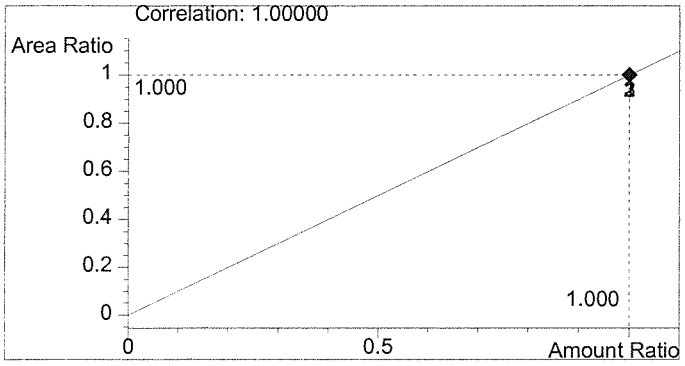


#	Compound	Area	RT
1	Ethanol	1474	1.038
2	n-Propanol	3531	1.695

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

STDS
023702

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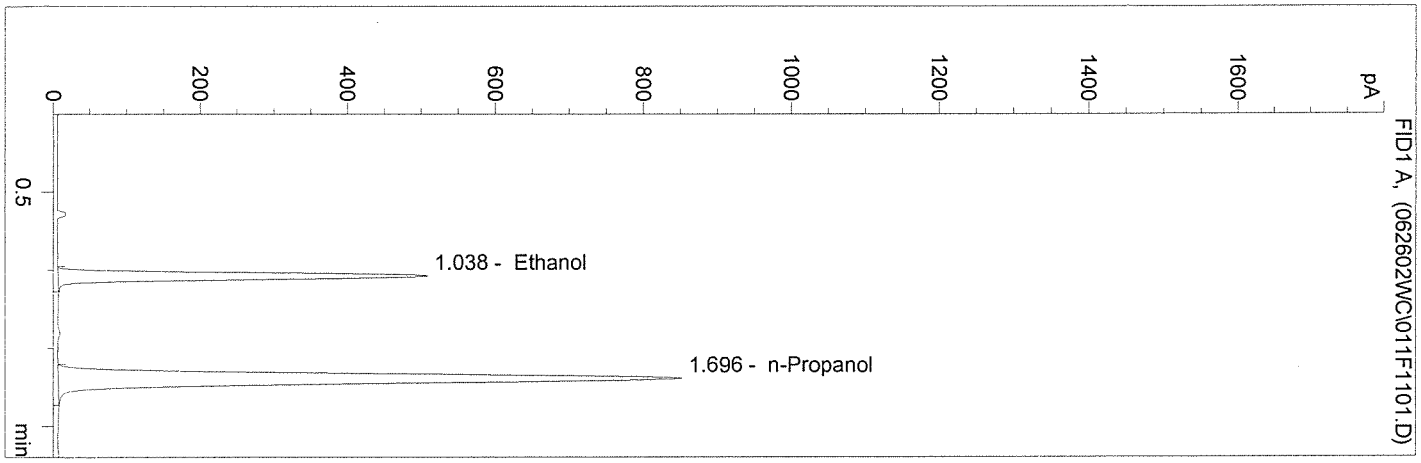
Instrument 1
-ALC1

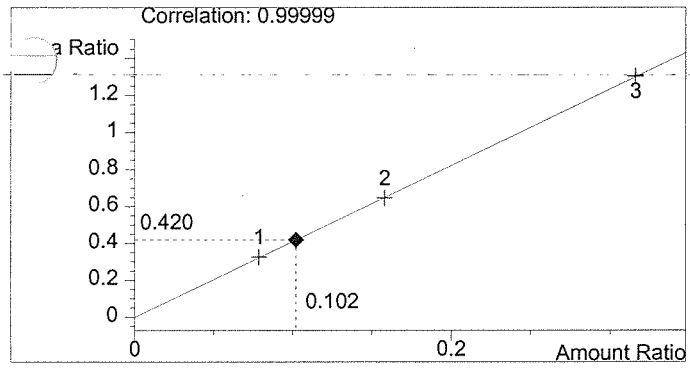
SIM 02018
WP MARSHALL

vial # 11

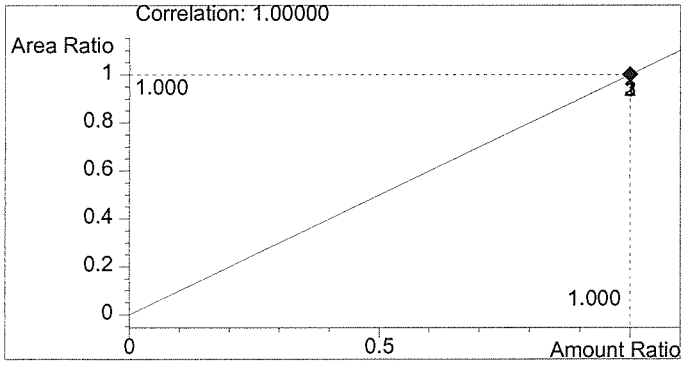


#	Compound	Area	RT
1	Ethanol	1474	1.038
2	n-Propanol	3509	1.696

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
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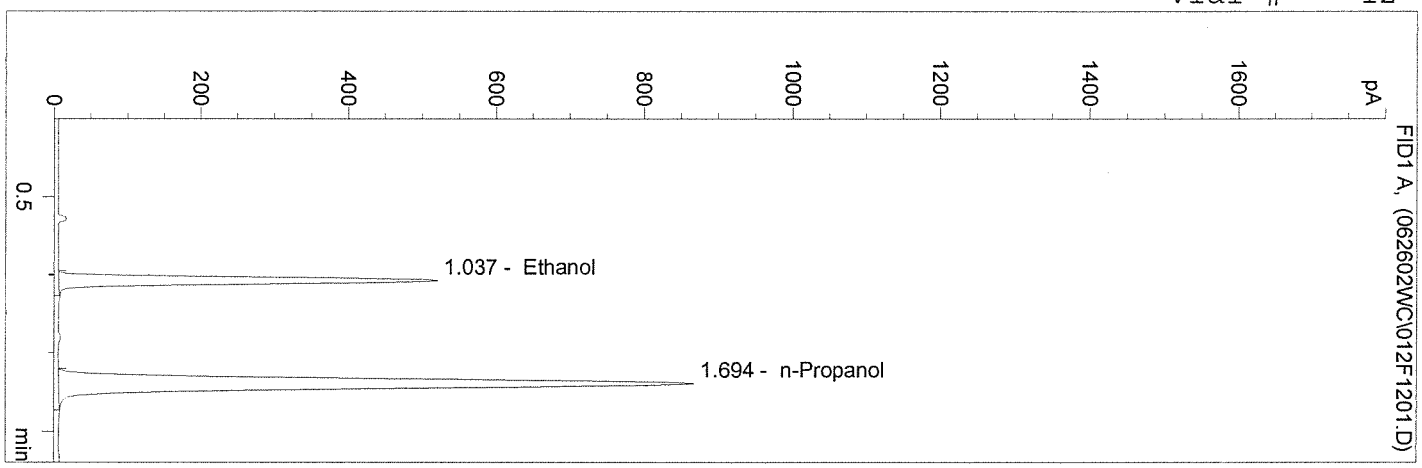
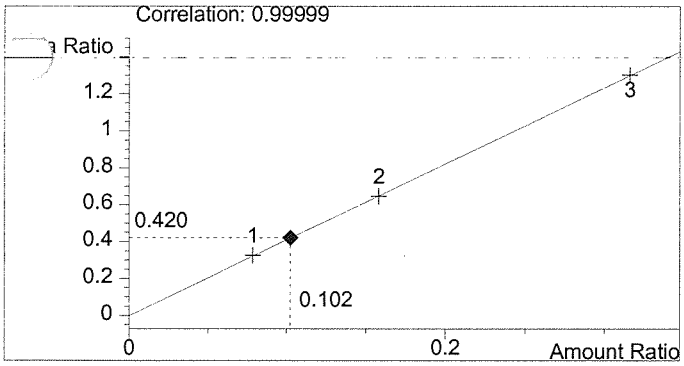
SIM 02018
WP MARSHALL

vial # 12

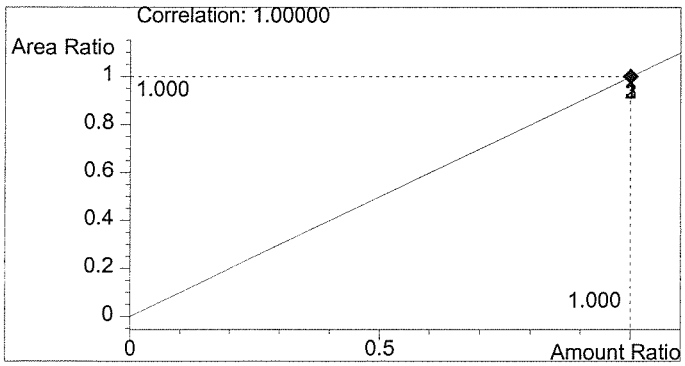


#	Compound	Area	RT
1	Ethanol	1499	1.037
2	n-Propanol	3566	1.694

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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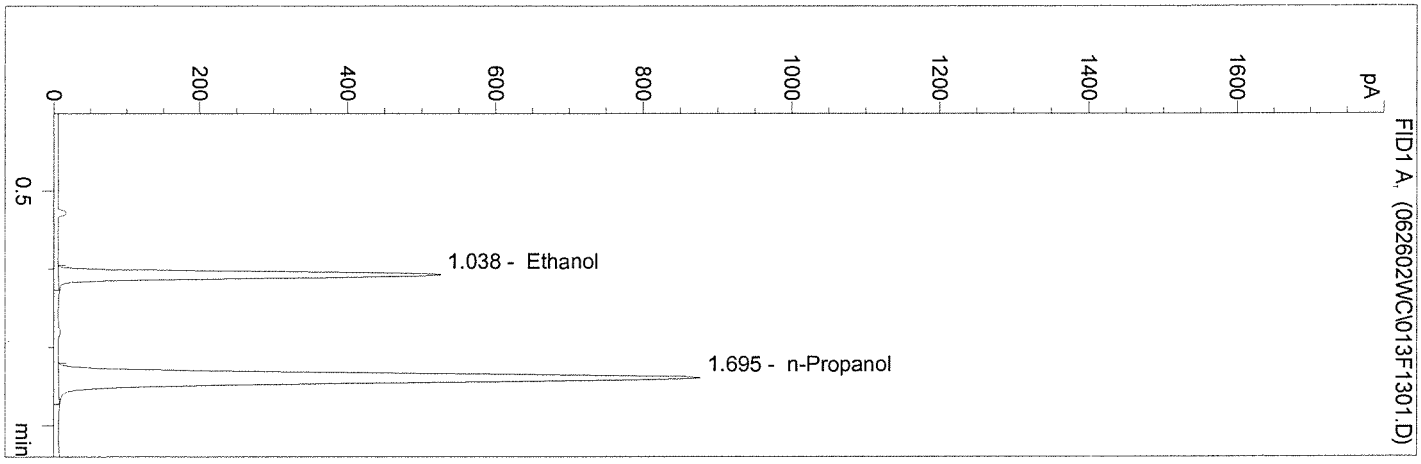
Instrument 1
-ALC1

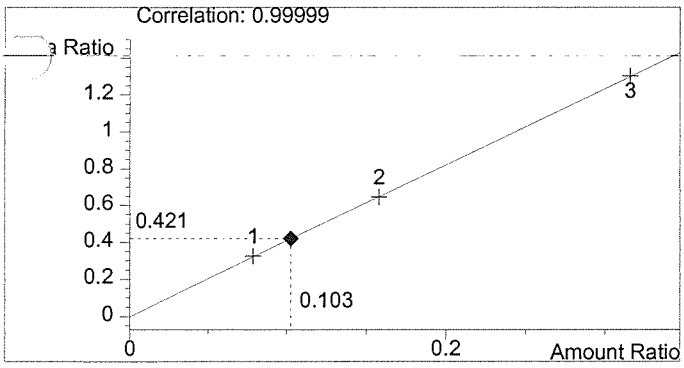
SIM 02018
WP MARSHALL

vial # 13

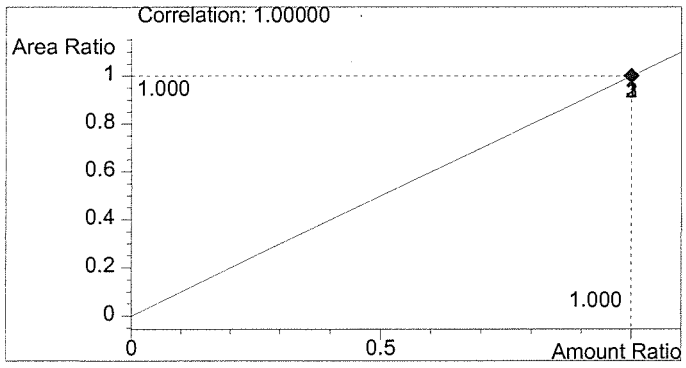


#	Compound	Area	RT
1	Ethanol	1522	1.038
2	n-Propanol	3614	1.695

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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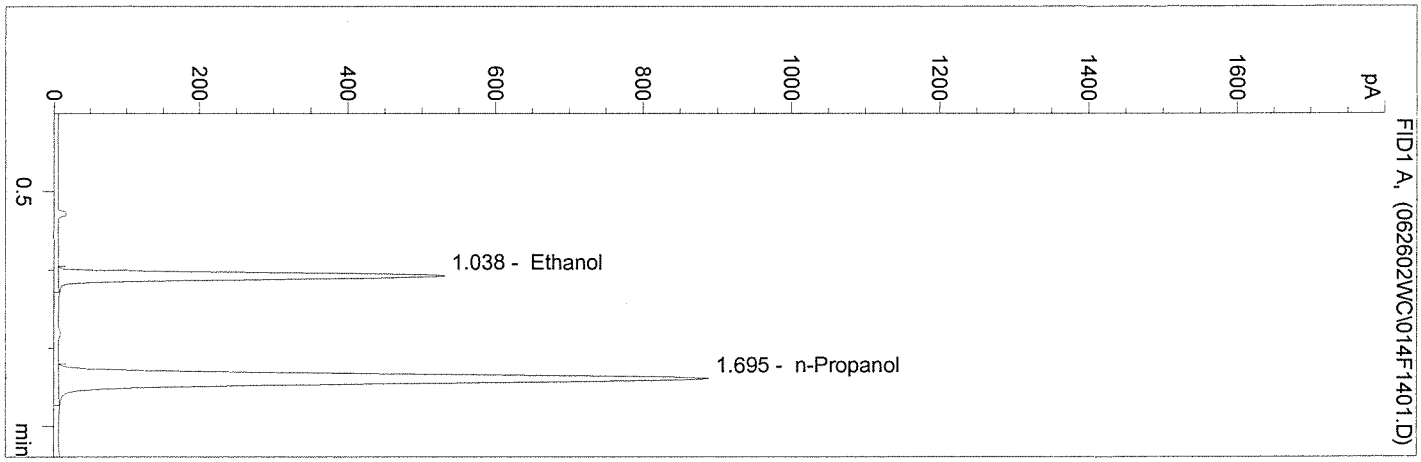
Instrument 1
-ALC1

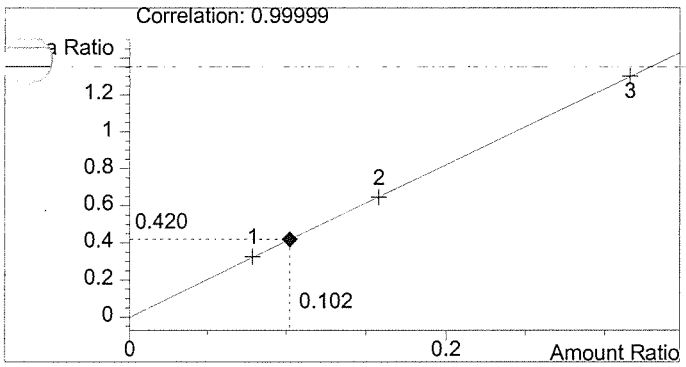
SIM 02018
WP MARSHALL

vial # 14

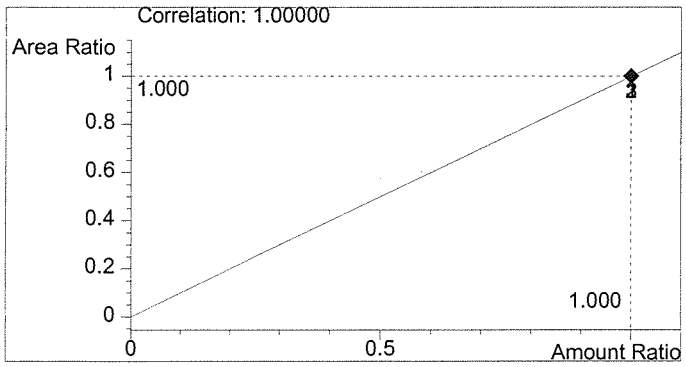


#	Compound	Area	RT
1	Ethanol	1541	1.038
2	n-Propanol	3668	1.695

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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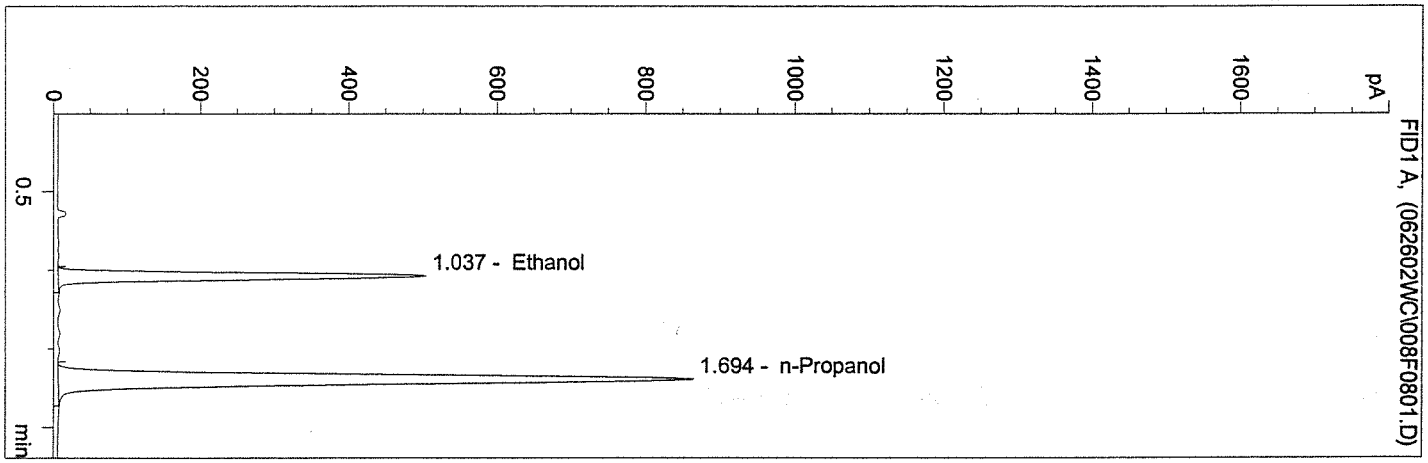
Instrument 1
ALC1

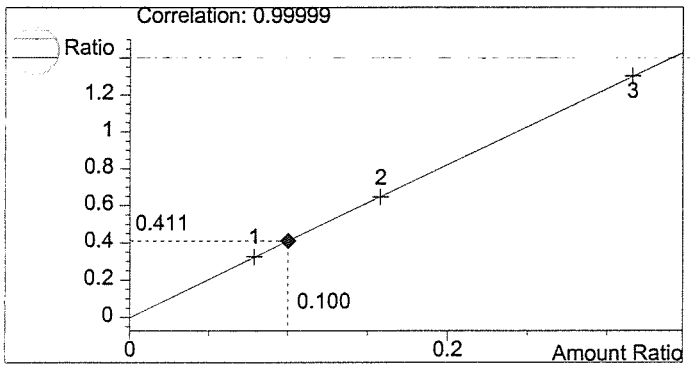
CONTROL 0.10 WM
WP MARSHALL

vial # 8

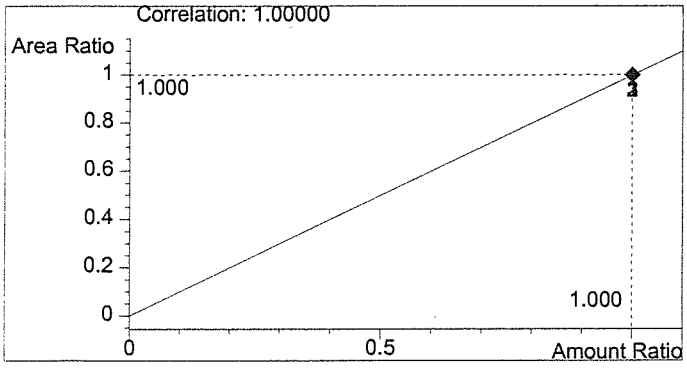


#	Compound	Area	RT
1	Ethanol	1467	1.037
2	n-Propanol	3568	1.694

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
-ALC1

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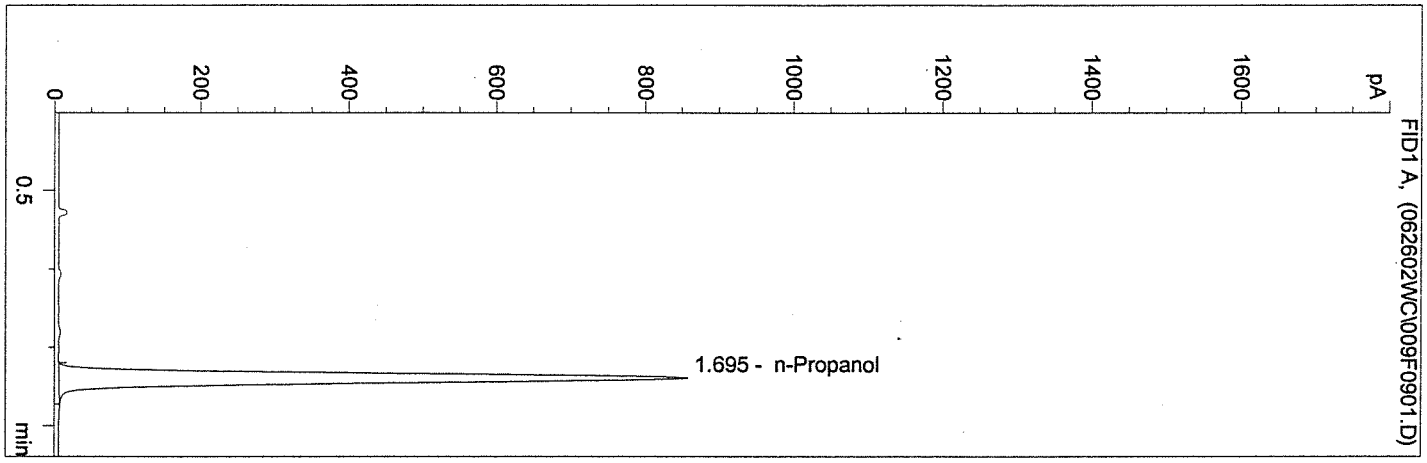
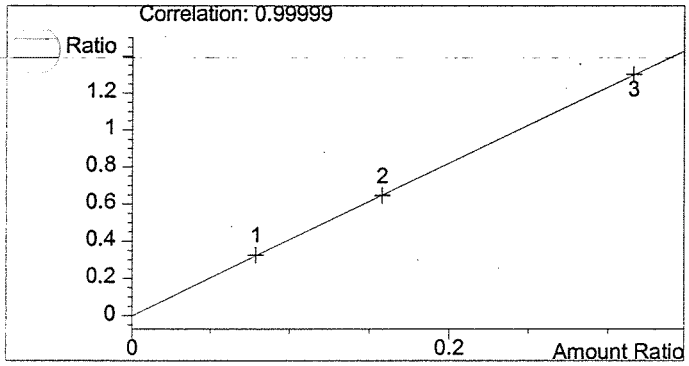
WP MARSHALL

vial # 9

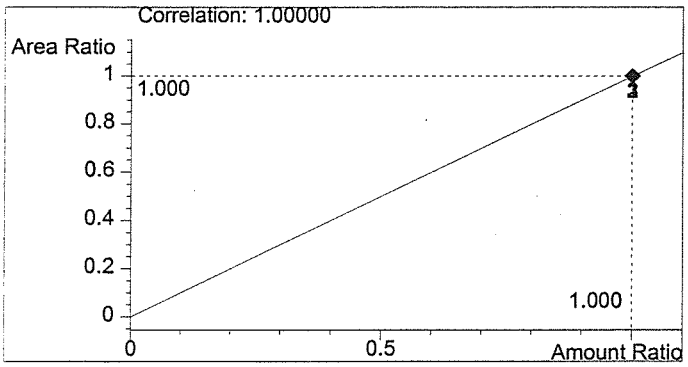


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3545	1.695

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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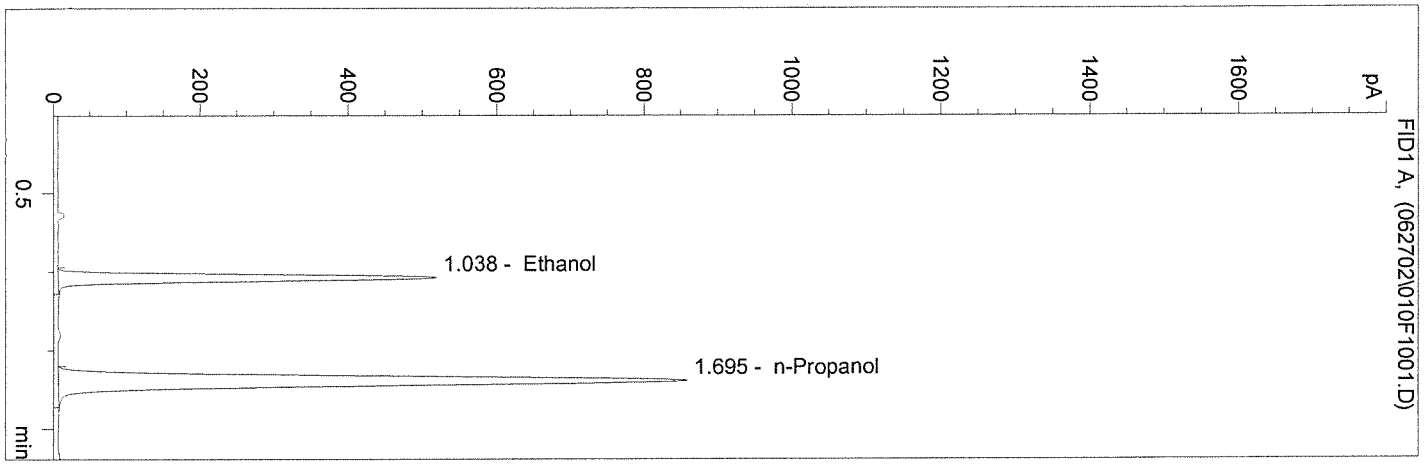
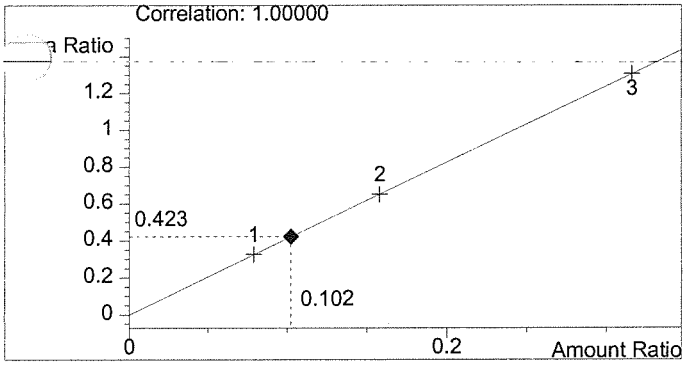
Instrument 1
-ALC1

02018 SIM SOL
RUTH LUTHI

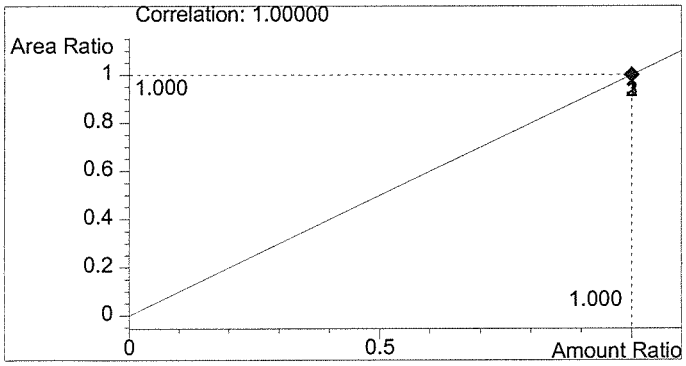
vial # 10



#	Compound	Area	RT
1	Ethanol	1495	1.038
2	n-Propanol	3536	1.695
Totals:			



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
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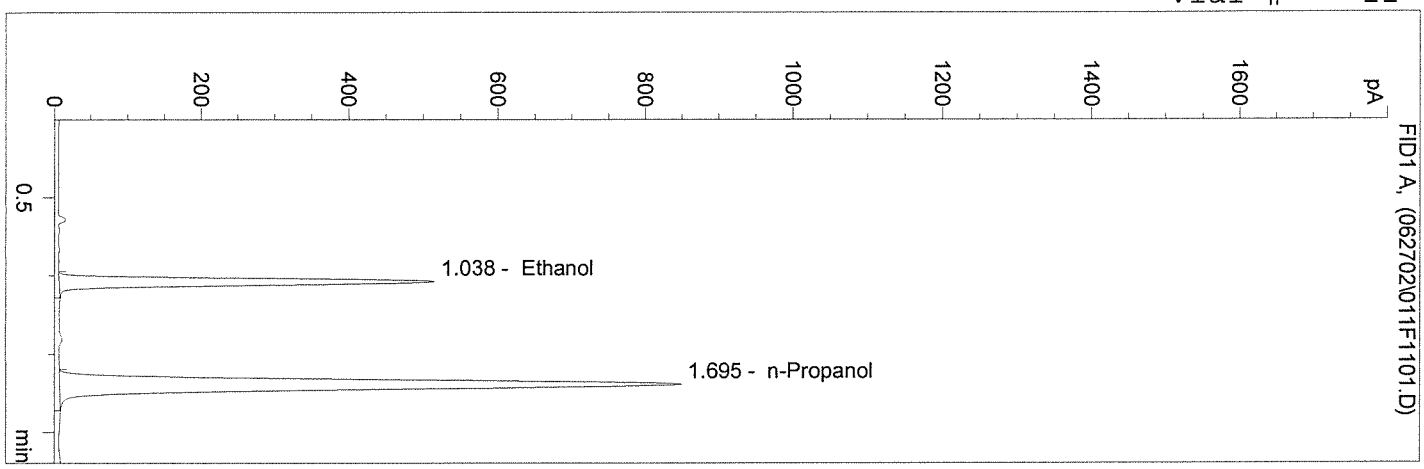
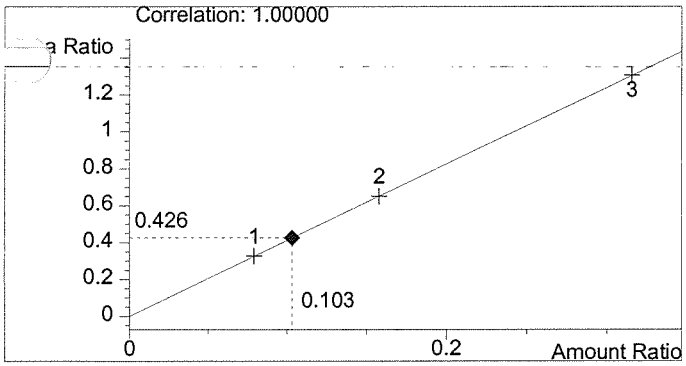
02018 SIM SOL
RUTH LUTHI

vial # 11

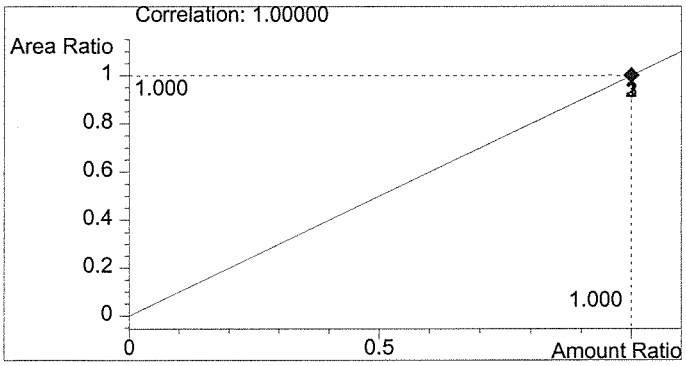


#	Compound	Area	RT
1	Ethanol	1486	1.038
2	n-Propanol	3491	1.695

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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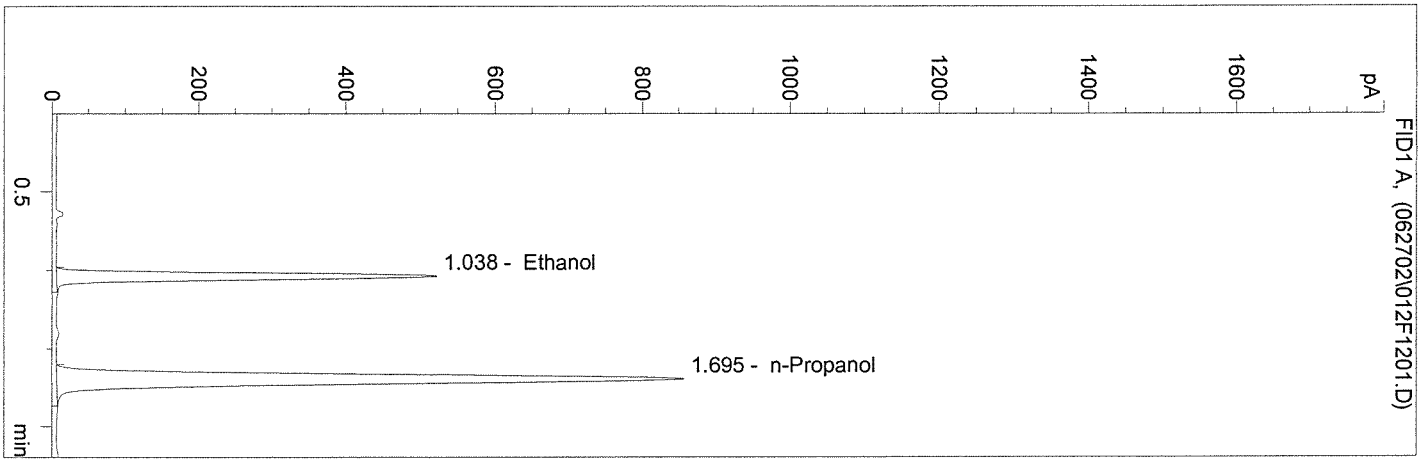
6/27/02 11:58:01 AM
Instrument 1
-ALC1

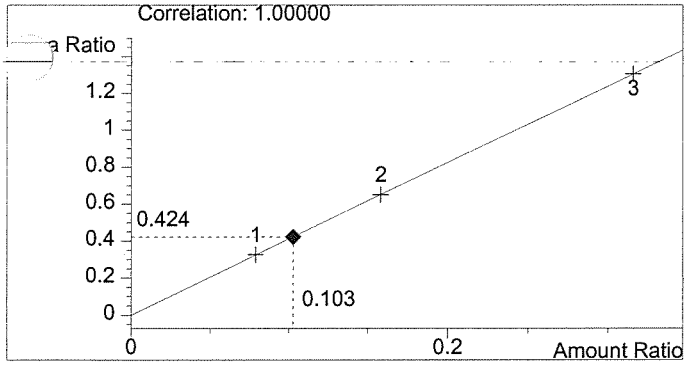
02018 SIM SOL
RUTH LUTHI

vial # 12

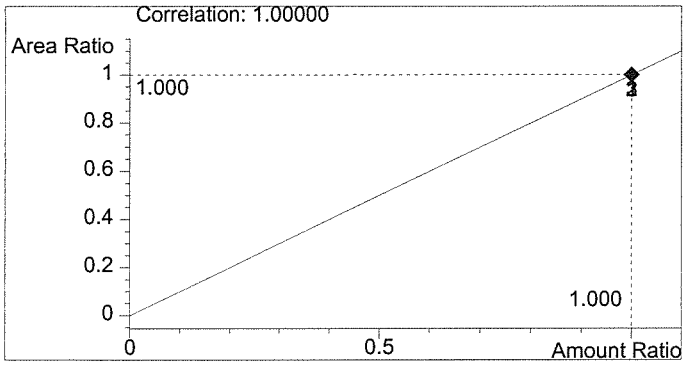


#	Compound	Area	RT
1	Ethanol	1492	1.038
2	n-Propanol	3522	1.695

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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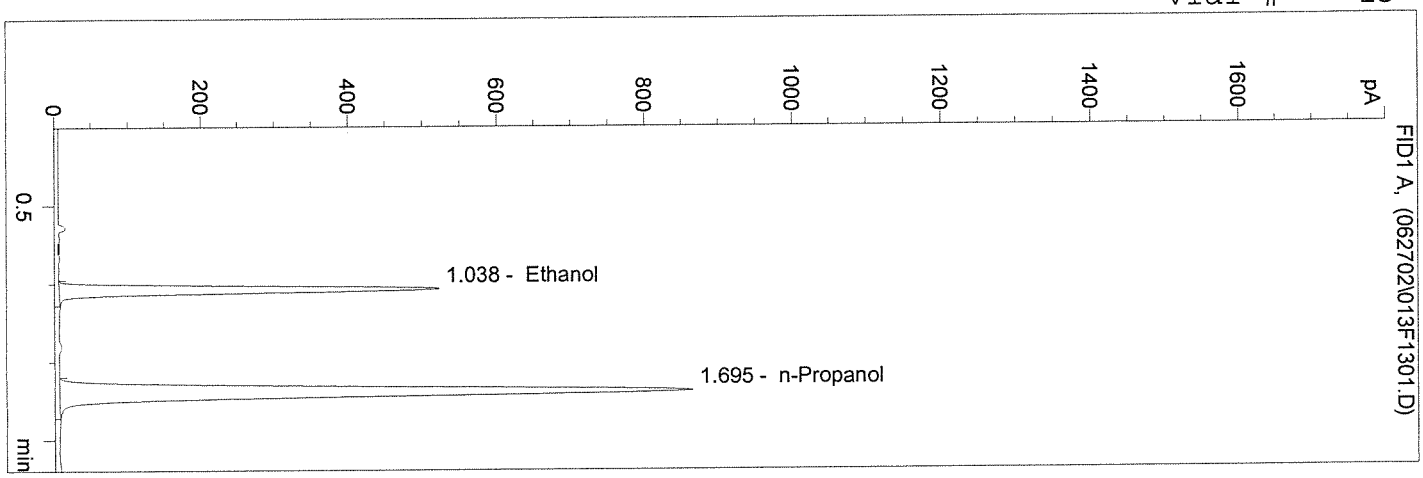
6/27/02 12:01:21 PM
Instrument 1
-ALC1

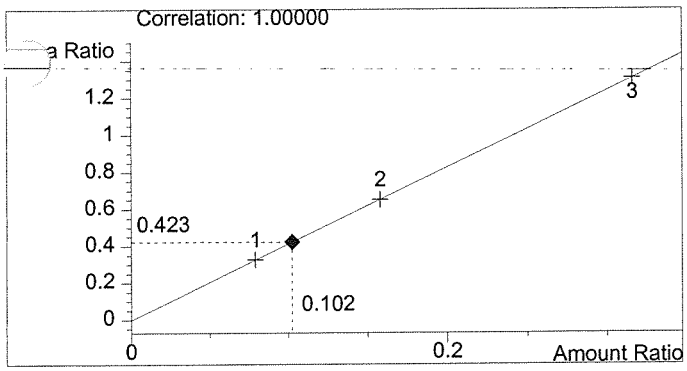
02018 SIM SOL
RUTH LUTHI

vial # 13

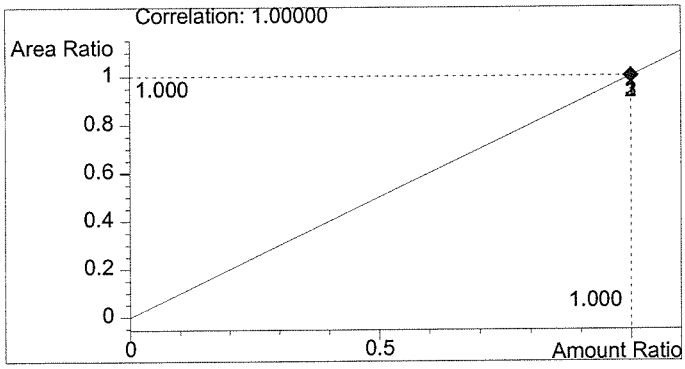


#	Compound	Area	RT
1	Ethanol	1500	1.038
2	n-Propanol	3549	1.695

Totals:



Ethanol 0.102 g/100ml



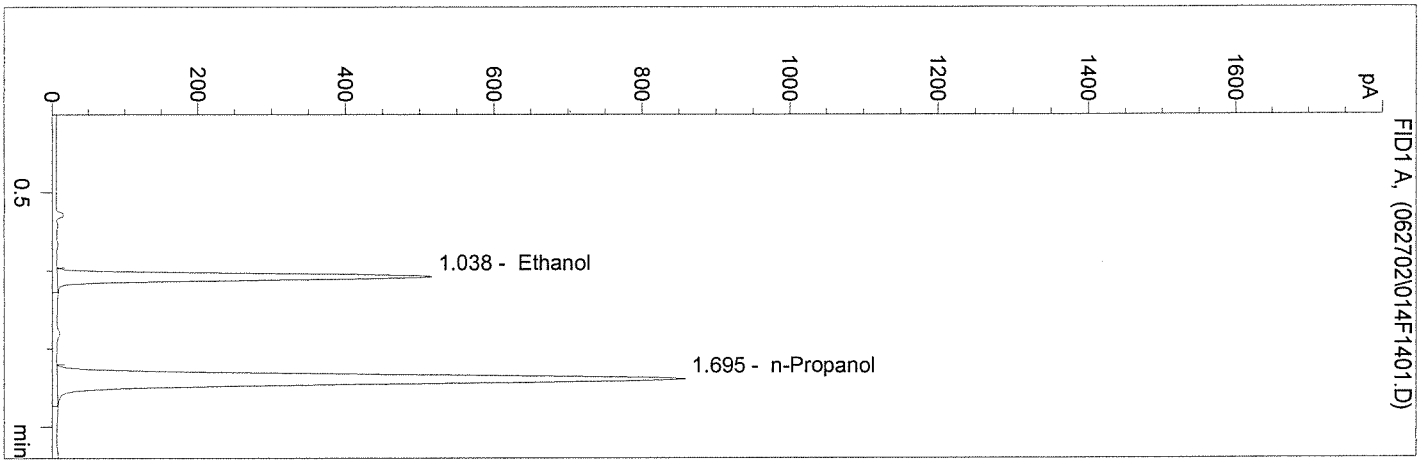
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
6/27/02 12:04:22 PM
Instrument 1
-ALC1

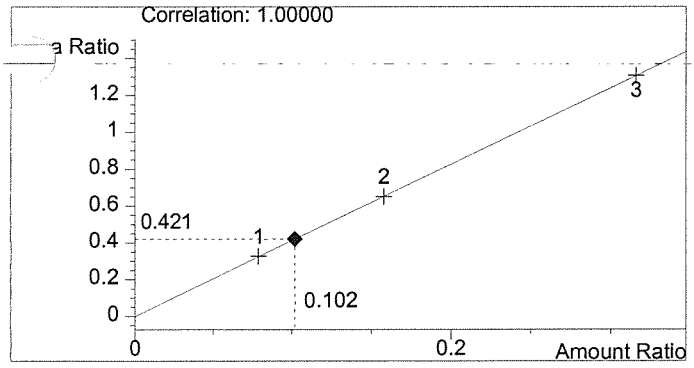
02018 SIM SOL
RUTH LUTHI

vial # 14

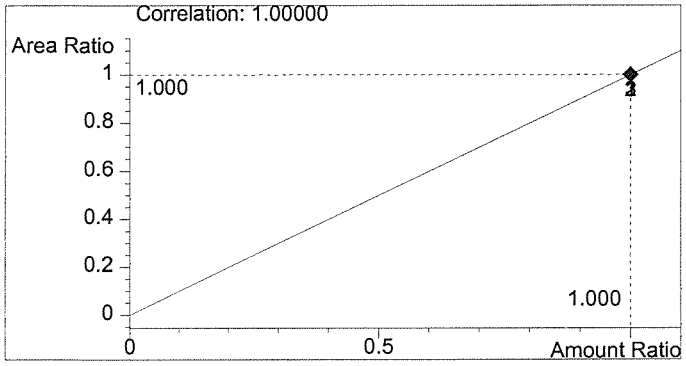


#	Compound	Area	RT
1	Ethanol	1482	1.038
2	n-Propanol	3522	1.695

Totals:



Ethanol 0.102 g/100ml



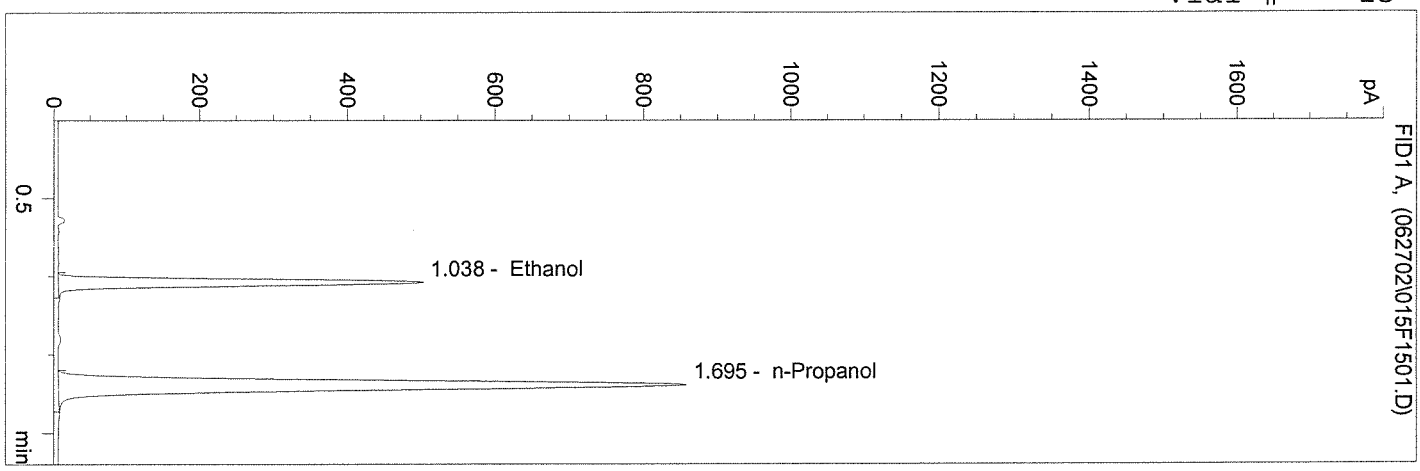
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
6/27/02 12:07:24 PM
Instrument 1
-ALC1

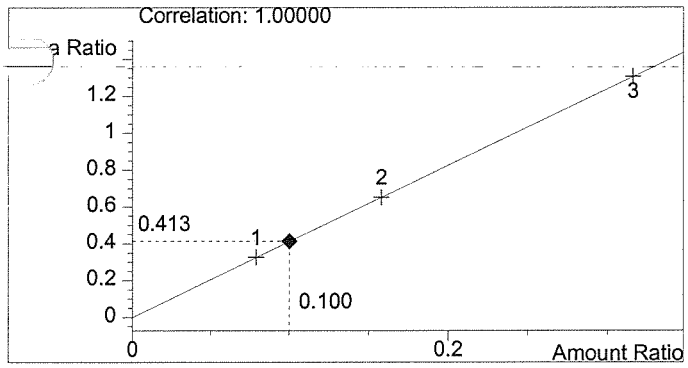
0.100 CTRL
RUTH LUTHI

vial # 15

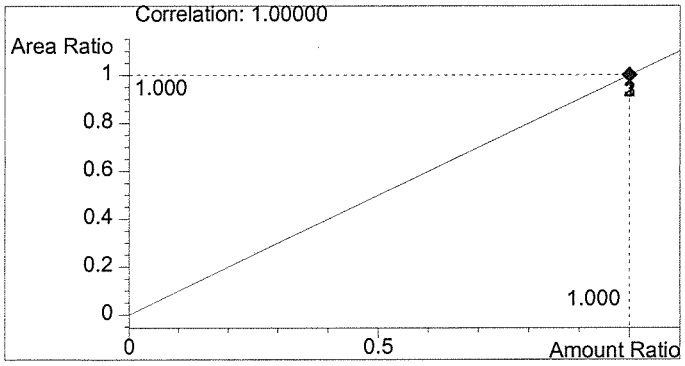


#	Compound	Area	RT
1	Ethanol	1461	1.038
2	n-Propanol	3536	1.695

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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6/27/02 12:10:26 PM
Instrument 1
-ALC1

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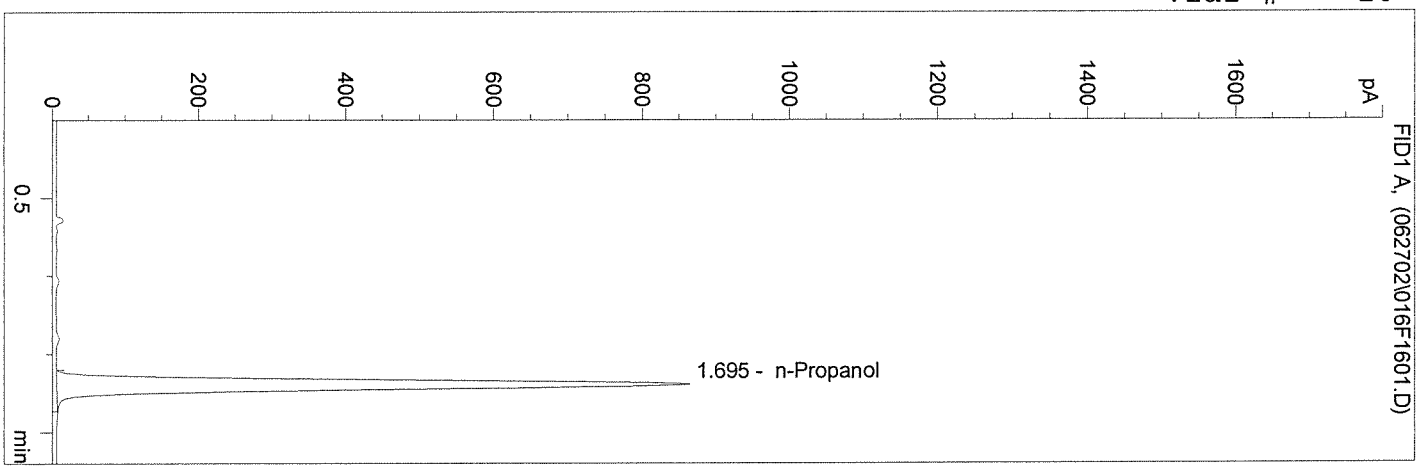
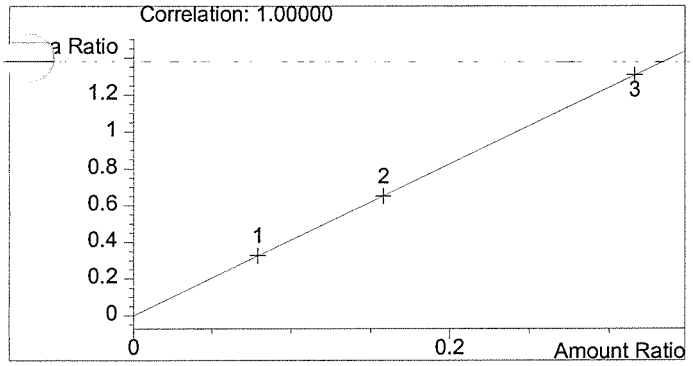
RUTH LUTHI

vial # 16

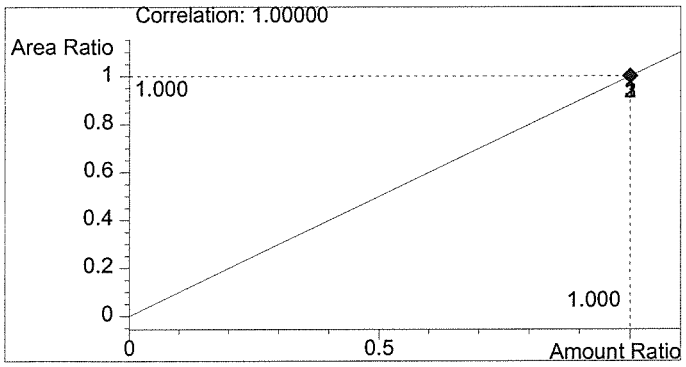


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3556	1.695

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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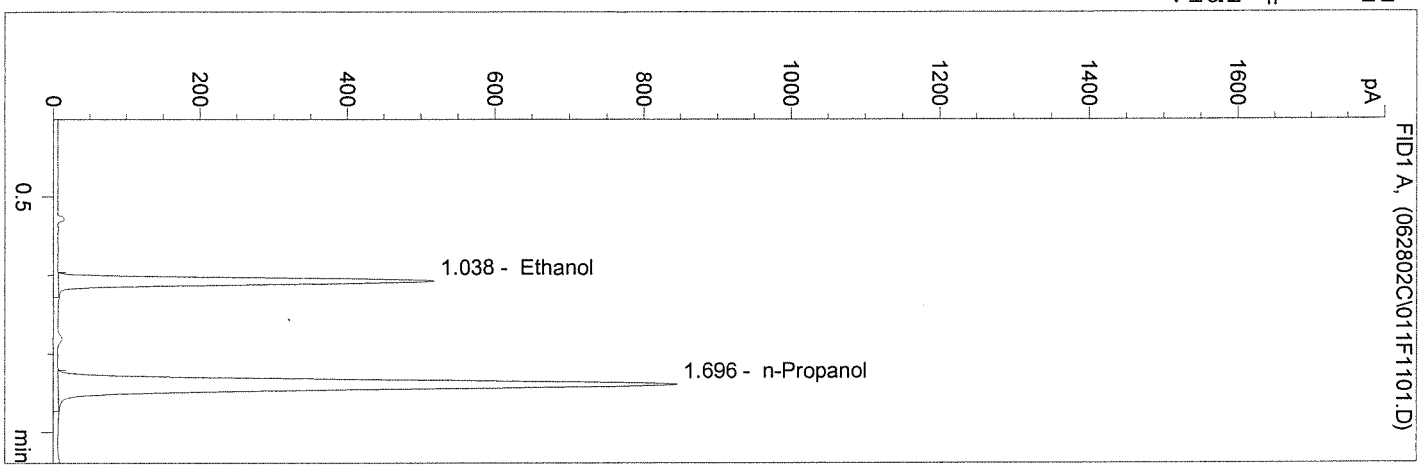
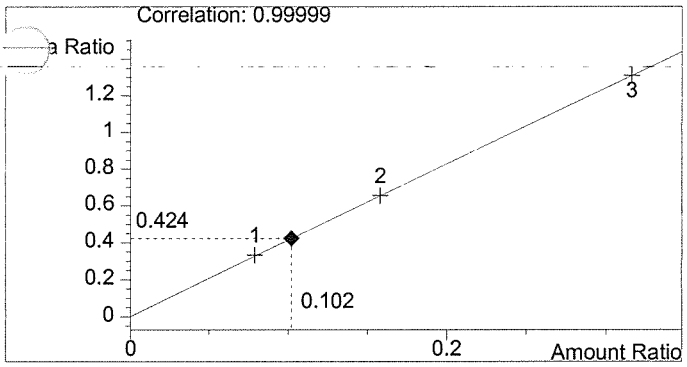
Instrument 1
-ALC1

02018 - EF
SIMULATOR SOLUTION

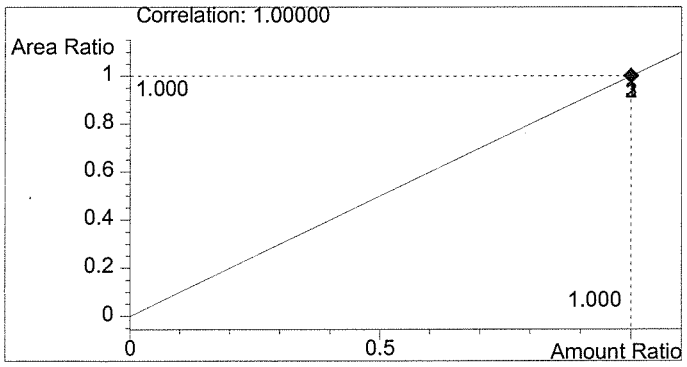
vial # 11



#	Compound	Area	RT
1	Ethanol	1472	1.038
2	n-Propanol	3470	1.696
Totals:			



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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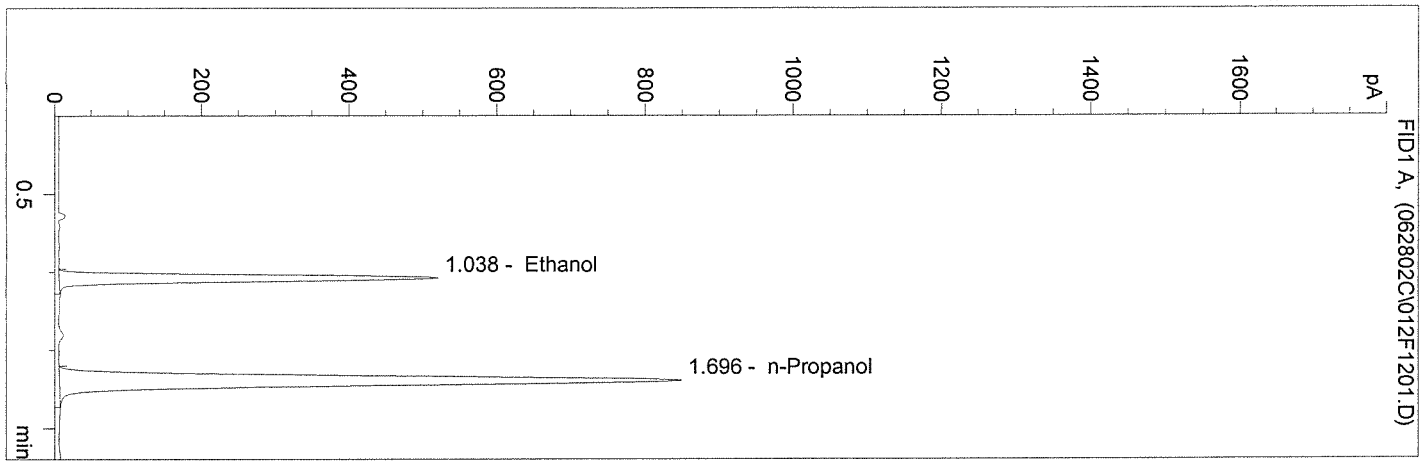
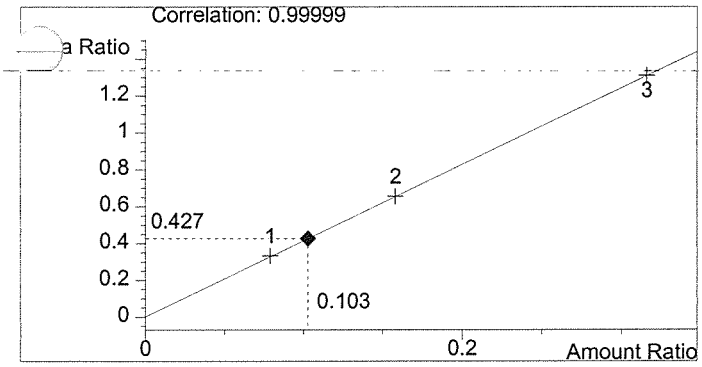
6/28/02 9:18:32 AM
Instrument 1
-ALC1

02018 - EF
SIMULATOR SOLUTION

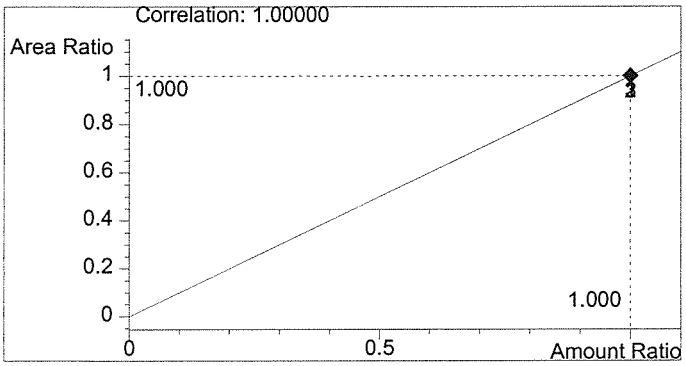
vial # 12



#	Compound	Area	RT
1	Ethanol	1488	1.038
2	n-Propanol	3485	1.696
Totals:			



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

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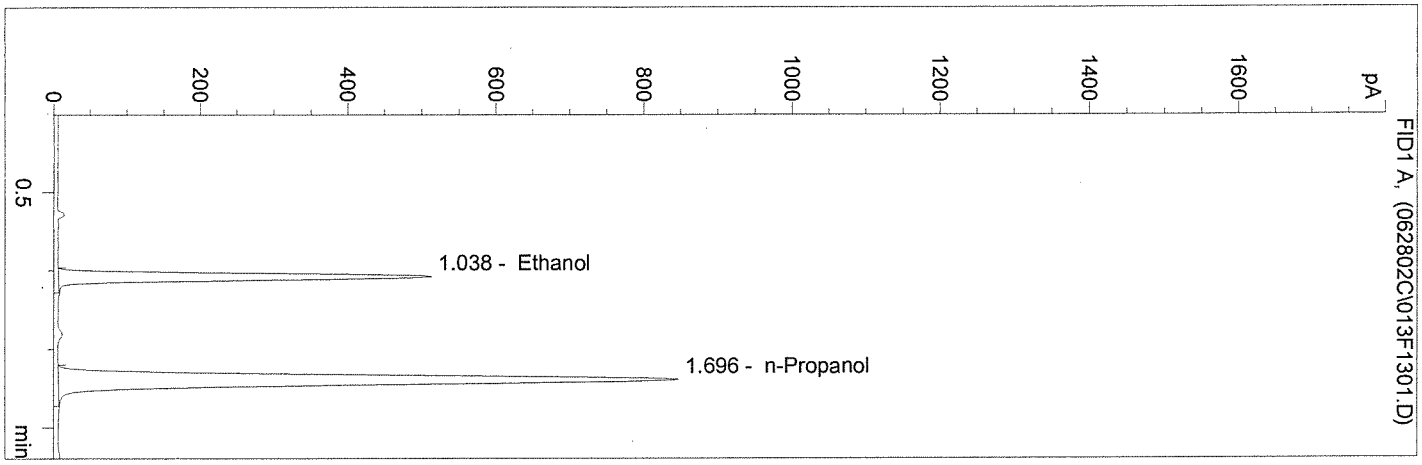
6/28/02 9:21:52 AM
Instrument 1
-ALC1

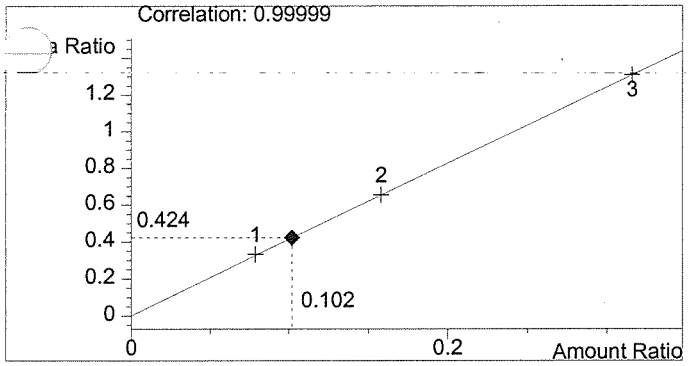
02018 - EF
SIMULATOR SOLUTION

vial # 13

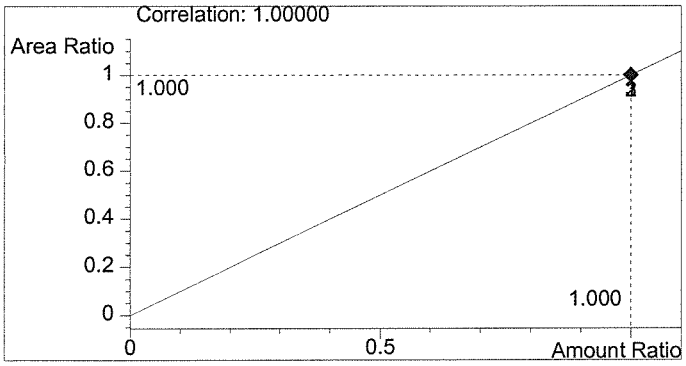


#	Compound	Area	RT
1	Ethanol	1476	1.038
2	n-Propanol	3484	1.696

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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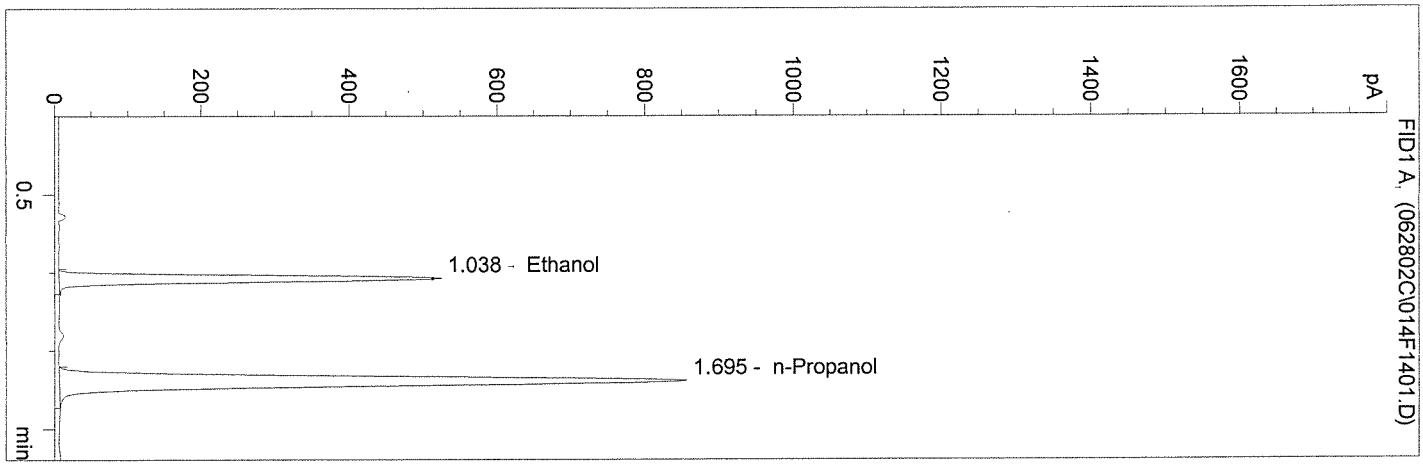
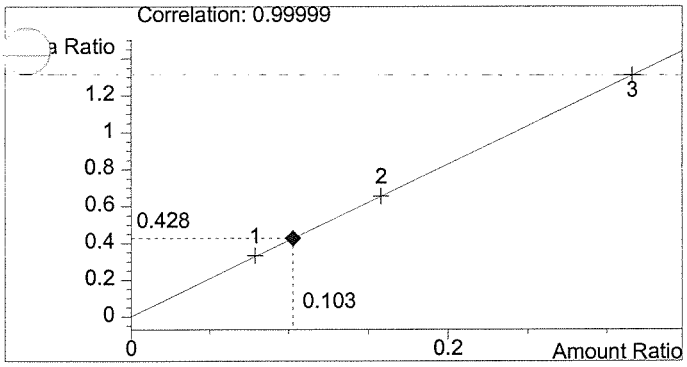
Instrument 1
-ALC1

02018 - EF
SIMULATOR SOLUTION

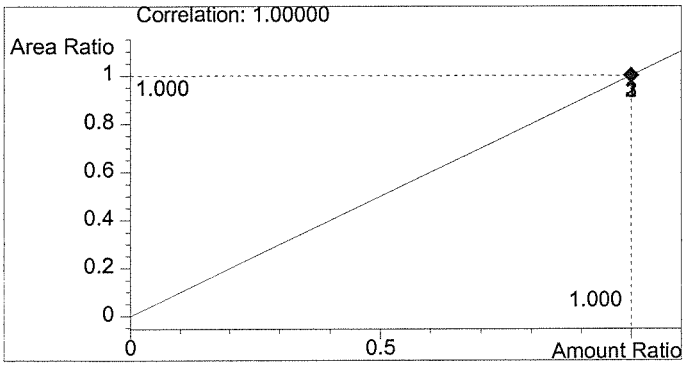
vial # 14



#	Compound	Area	RT
1	Ethanol	1503	1.038
2	n-Propanol	3515	1.695
Totals:			



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

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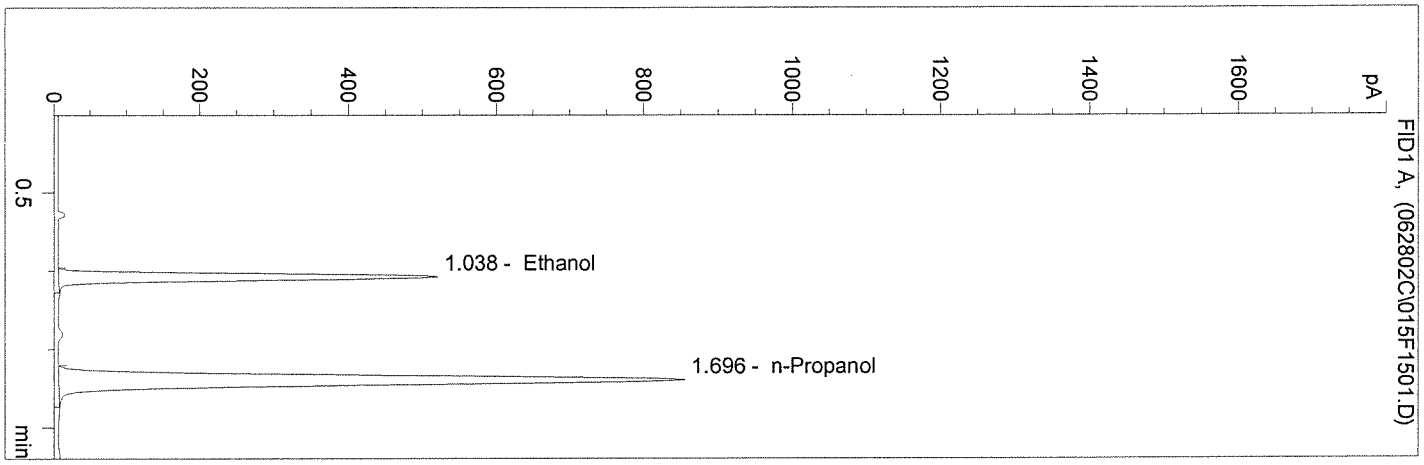
6/28/02 9:27:55 AM
Instrument 1
-ALC1

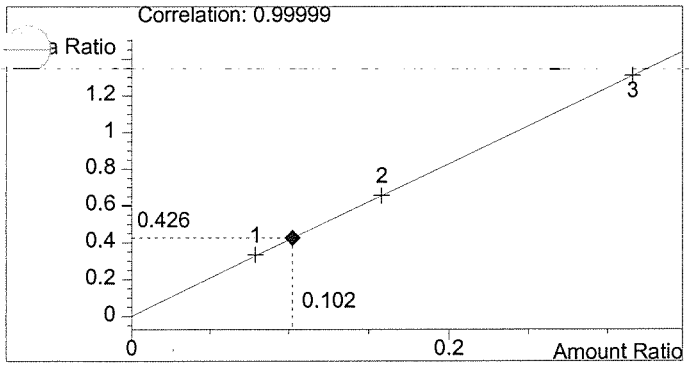
02018 - EF
SIMULATOR SOLUTION

vial # 15

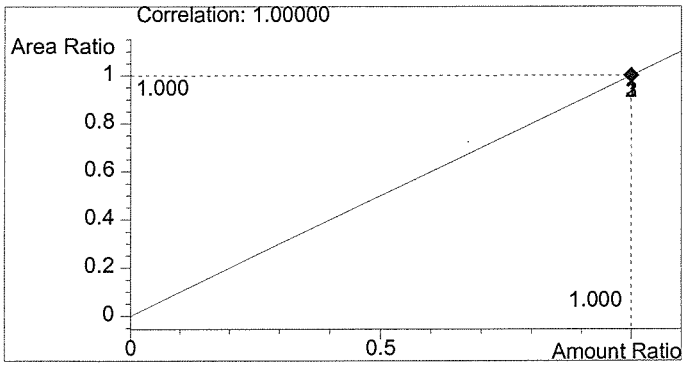


#	Compound	Area	RT
1	Ethanol	1496	1.038
2	n-Propanol	3511	1.696

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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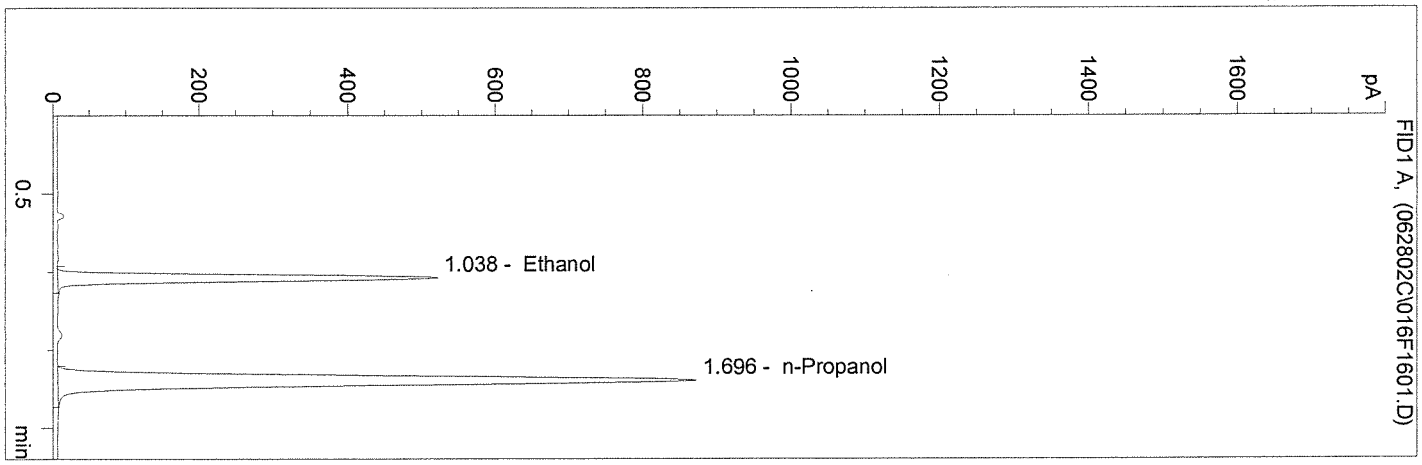
6/28/02 9:30:57 AM
Instrument 1
-ALC1

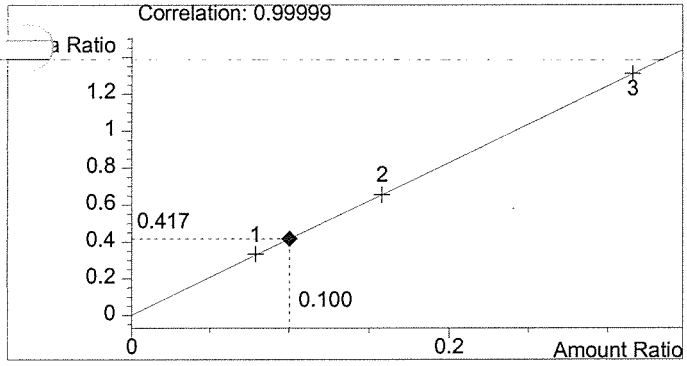
0.10 CONTROL-EF
SIMULATOR SOLUTION

vial # 16

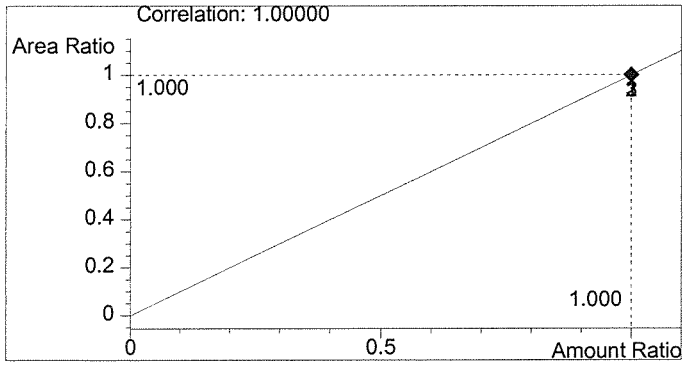


#	Compound	Area	RT
1	Ethanol	1492	1.038
2	n-Propanol	3579	1.696

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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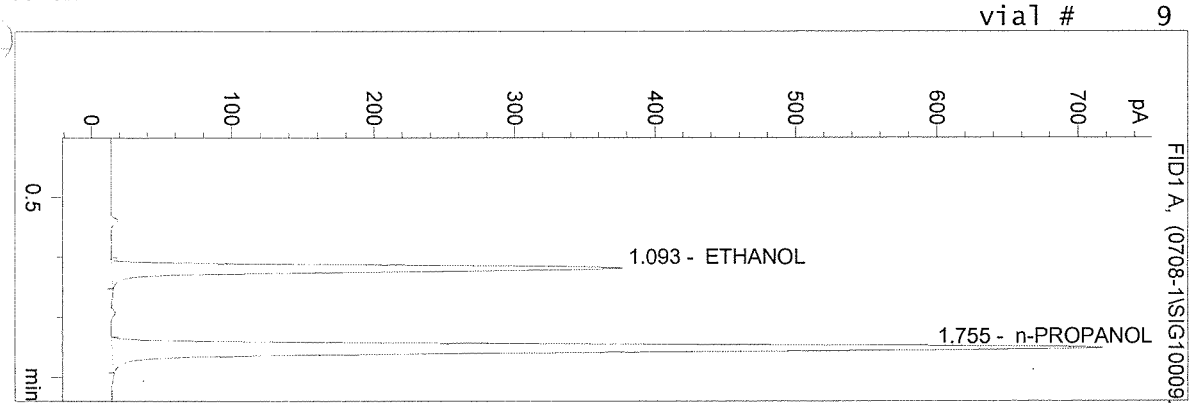
Instrument 3
DB-ALC1

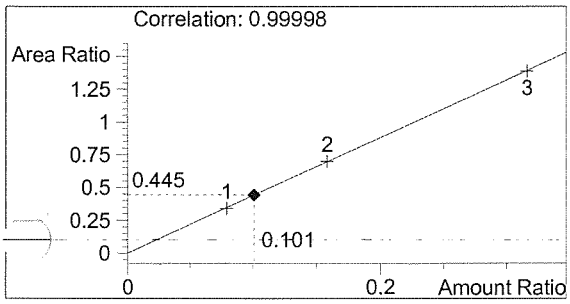
02018 -1 Sim
Ann Marie Gordon

vial # 9

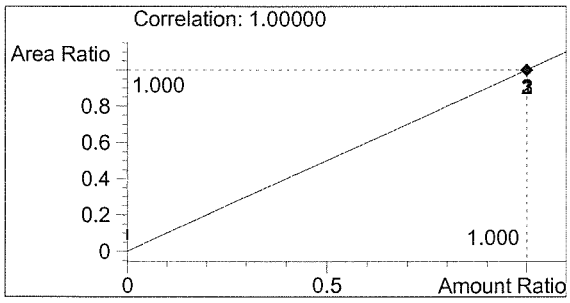


#	Compound	Area	RT
1	ETHANOL	1422	1.093
2	n-PROPANOL	3198	1.755

Totals:



ETHANOL 0.101 mg/L



n-PROPANOL 1.000 mg/L

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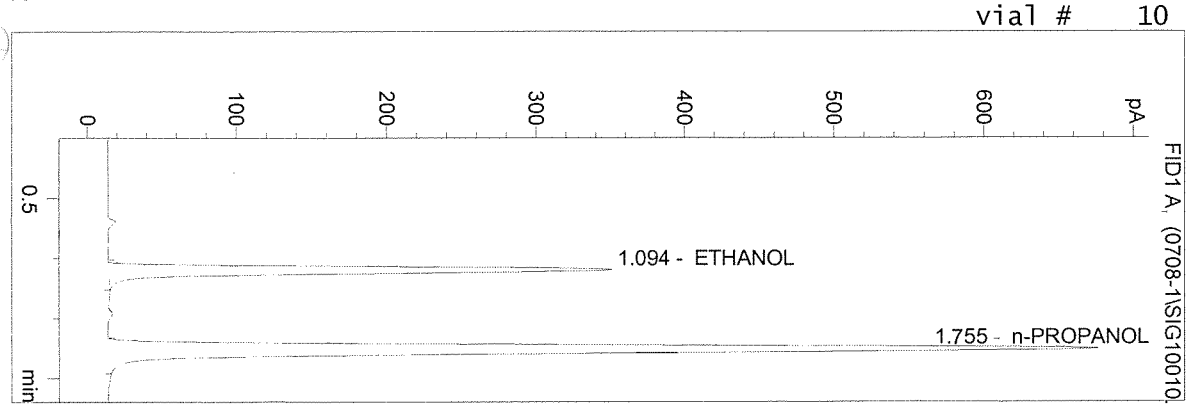
7/8/02 8:28:32 AM
Instrument 3
DB-ALC1

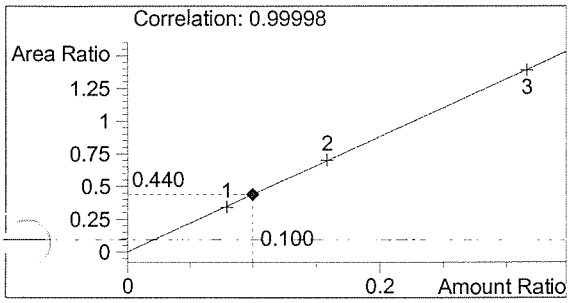
02018-2 SIM
Ann Marie Gordon

vial # 10

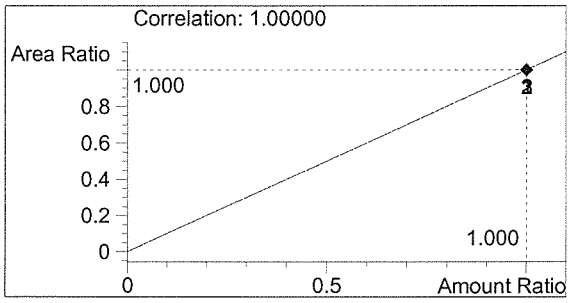


#	Compound	Area	RT
1	ETHANOL	1333	1.094
2	n-PROPANOL	3032	1.755

Totals:



ETHANOL 0.100 mg/L



n-PROPANOL 1.000 mg/L

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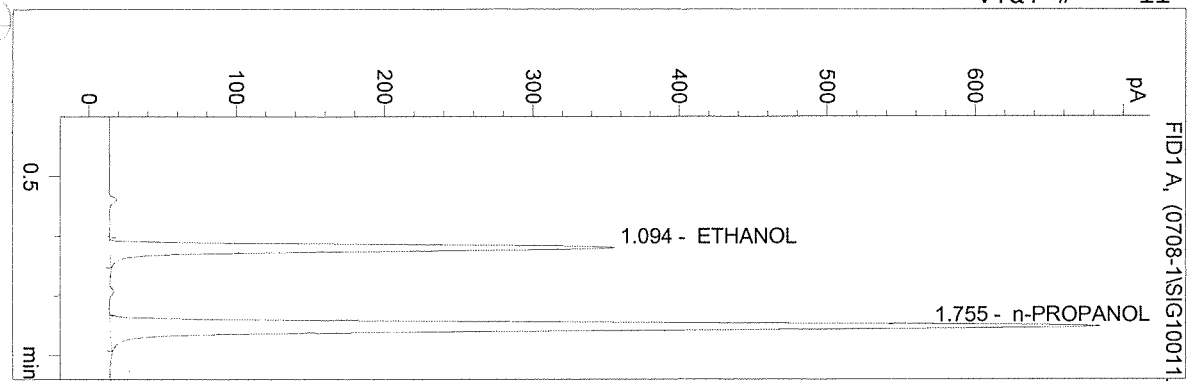
Instrument 3
DB-ALC1

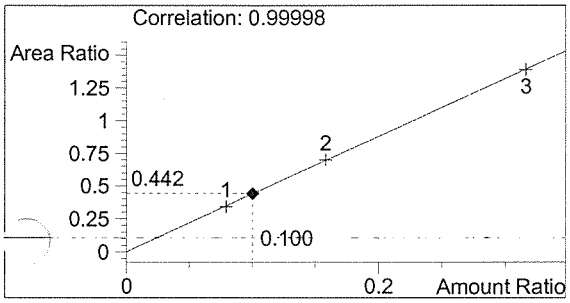
02018-3 SIM
Ann Marie Gordon

vial # 11

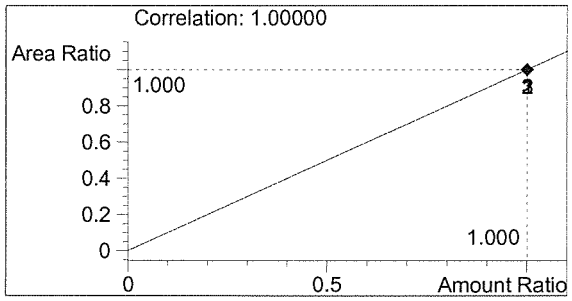


#	Compound	Area	RT
1	ETHANOL	1362	1.094
2	n-PROPANOL	3084	1.755

Totals:



ETHANOL 0.100 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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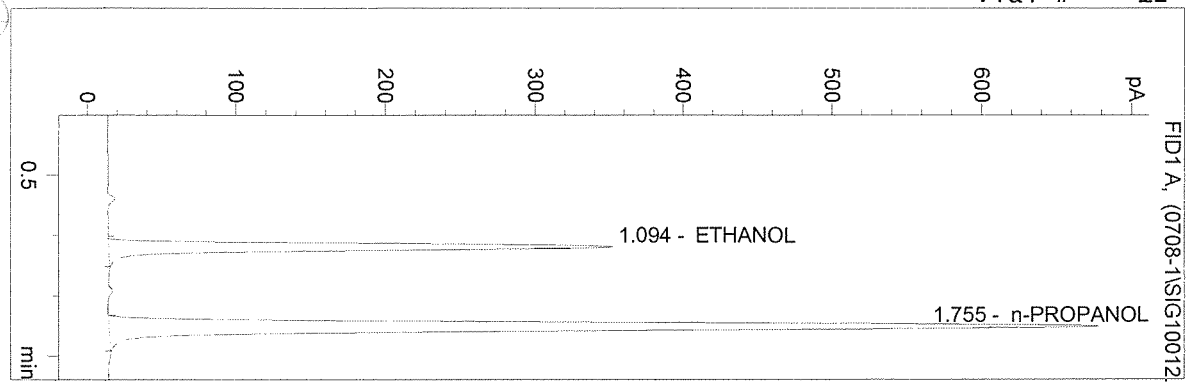
Instrument 3
DB-ALC1

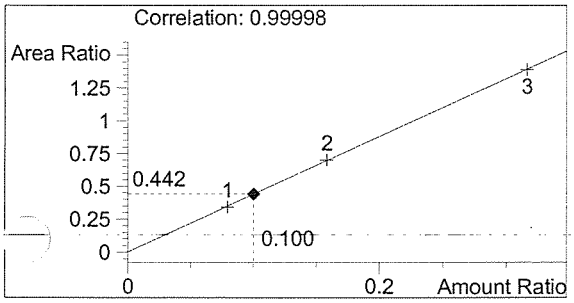
02018-4 SIM
Ann Marie Gordon

vial # 12

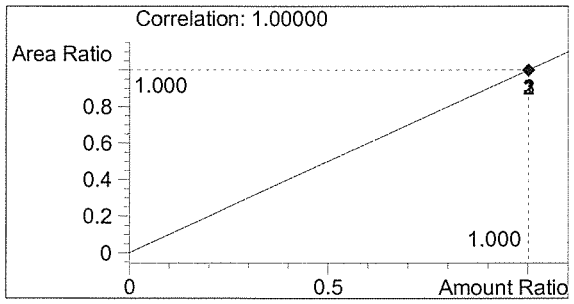


#	Compound	Area	RT
1	ETHANOL	1343	1.094
2	n-PROPANOL	3041	1.755

Totals:



ETHANOL 0.100 mg/L



n-PROPANOL 1.000 mg/L

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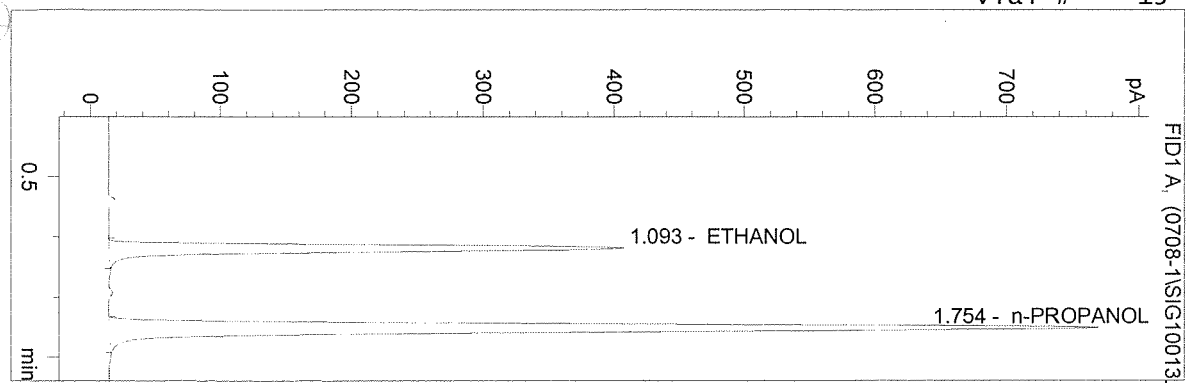
Instrument 3
DB-ALC1

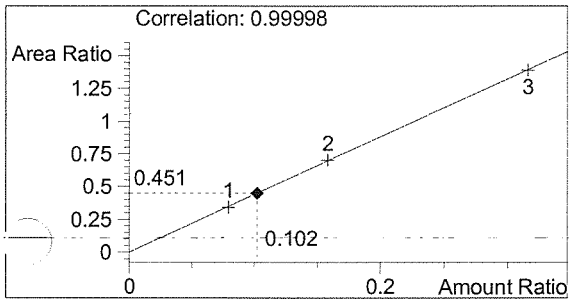
02018-5 SIM
Ann Marie Gordon

vial # 13

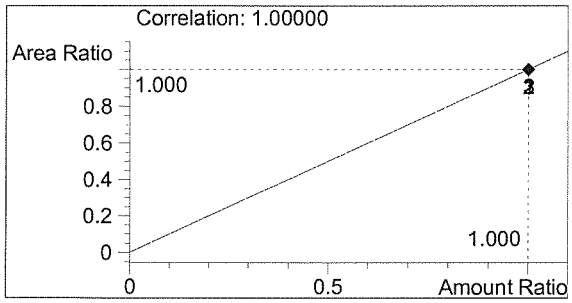


#	Compound	Area	RT
1	ETHANOL	1554	1.093
2	n-PROPANOL	3446	1.754

Totals:



ETHANOL 0.102 mg/L



n-PROPANOL 1.000 mg/L

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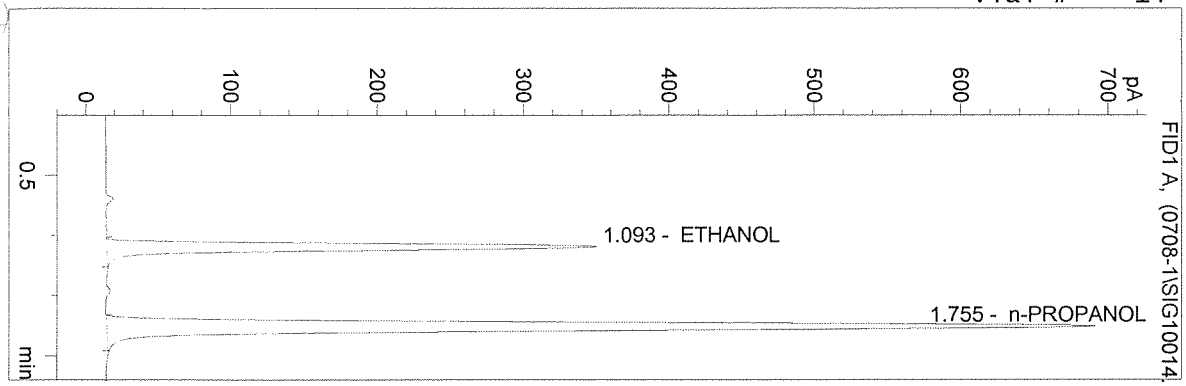
Instrument 3
DB-ALC1

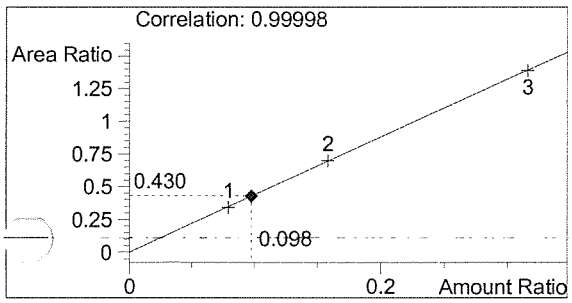
0.10 Control
Ann Marie Gordon

vial # 14

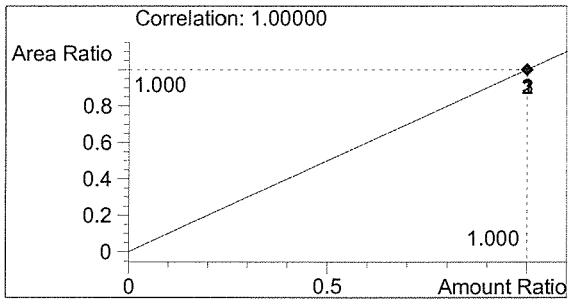


#	Compound	Area	RT
1	ETHANOL	1333	1.093
2	n-PROPANOL	3101	1.755

Totals:



ETHANOL 0.098 mg/L



n-PROPANOL 1.000 mg/L

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7/8/02 8:44:34 AM
Instrument 3
DB-ALC1

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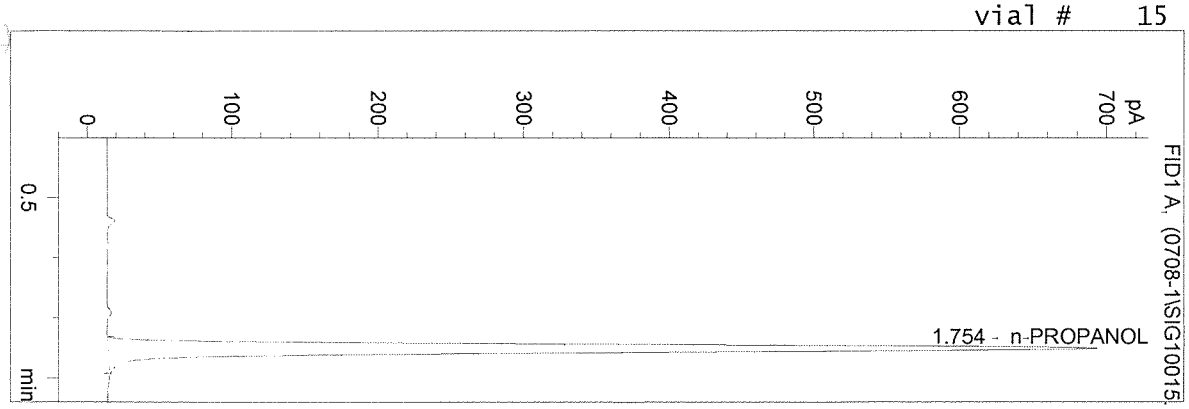
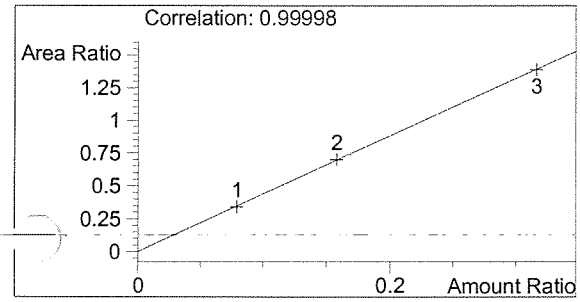
Ann Marie Gordon

vial # 15

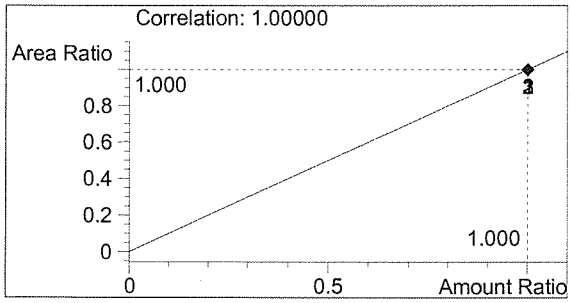


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3124	1.754

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L