

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



Reviewer/s: KEN DENTON / ROD GULLBERG Date: 1-14-2008
 Location: TOX LAB SEATTLE Solution Batch Number: 03015

	YES	NO	N/A
Preparation date precedes all analysis dates:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data entry corresponds to all chromatograms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All signatures present on Analysis sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avg. solution concentration correct?:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard deviation correct:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range correct if applicable:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent vapor concentration correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Control information correct: (lot # present and future date)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complies with accuracy and precision requirements established by the State Toxicologist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CV% Correct?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

Reviewer Signature: *R. Gullberg* Date: 1-14-2008
 Reviewer Signature: *K. Denton* Date: 1/14/2008

WASHINGTON STATE TOXICOLOGY LABORATORY
FORENSIC LABORATORY SERVICES BUREAU
 WASHINGTON STATE PATROL
 2203 AIRPORT WAY S, SUITE 360
 SEATTLE, WASHINGTON 98134-2027
 (206) 464-5435 FAX (206) 389-2738

Preparation and certification of **0.08 g/210L Quality Assurance solution**

Batch number **03015**

Date: 6/6/2003

Preparation: 22.2 mL of absolute ethyl alcohol diluted to 18 Liters with water

Concentration of ethanol (g/100mL) measured by gas chromatography:

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal 10	Anal 11	Anal 12
1	0.098	0.098	0.097									
2	0.098	0.099	0.098									
3	0.098	0.099	0.096									
4	0.097	0.098	0.098									
5	0.098	0.098	0.098									
Ctrl	0.100	0.101	0.100									

External Control:

Lot #: A022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.0979 g/100 mL

SD: 0.00074

Range (3xSD): 0.0956 to 0.1001

Precision CV (%): 0.7594 %

Equivalent vapor concent.: 0.0796 g/210L

Analyst	Name	Signature	Date
1	William P Marshall	<i>W P Marshall</i>	06/06/03
2	Estuardo J. Miranda	<i>Estuardo J. Miranda</i>	06/06/03
3	Eugene Schwilke	<i>Eugene Schwilke</i>	06/09/03
4			
5			
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7			
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9			
10			
11			
12			

Prepared by: William P Marshall according to the approved protocol



STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, William P. Marshall, do certify under penalty of perjury as follows:

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

I possess the following qualifications: BS degree in Chemistry and twenty-nine years of analytical laboratory experience including thirteen years of toxicology experience.

The quality assurance solution, Lot Number 03015 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0979 grams per 100ml.

Dated: 6/16/03
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/bf
WMQA





STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, Estuardo J. Miranda, do certify under penalty of perjury as follows:

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

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

The quality assurance solution, Lot Number 03015 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0979 grams per 100ml.

Dated: 6/16/03
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/bf
EMQA

A review of solution batch records was recently completed. After this review, I checked the file for this solution and reviewed all changes that were made. I found that the solution still conformed to those standards established by the State Toxicologist for the certification of simulator solutions.

1-15-2008



STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

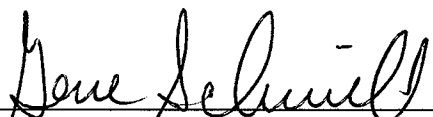
I, Eugene W. Schwilke, do certify under penalty of perjury as follows:

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

I possess the following qualifications: BS degree in Biology, Board Certification from the American Board of Forensic Toxicology, and six years of experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03015 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0979 grams per 100ml.

Dated: 6/16/03
Seattle, WA



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

GS/bf
GSQA



C:\HPCHEM\1\METHODS\BLDALCO3.M

6/6/03 3:27:01 PM

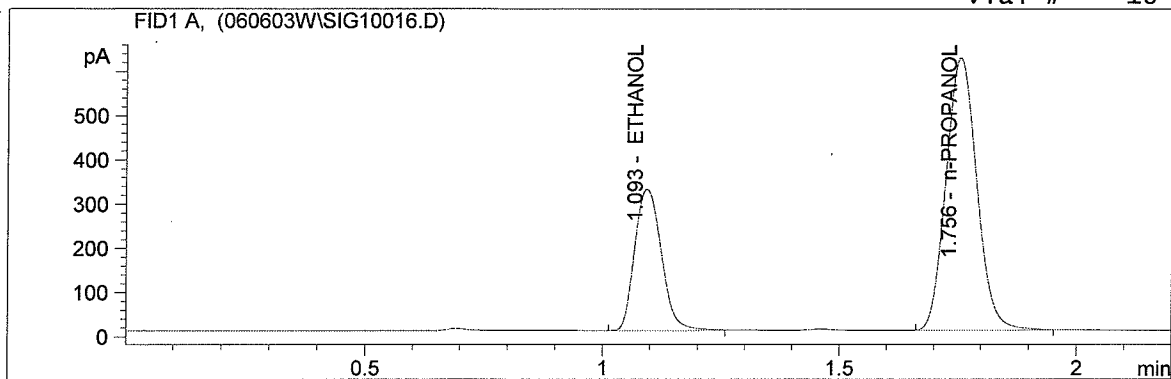
Instrument 3

ALC1

QA 03015 .08

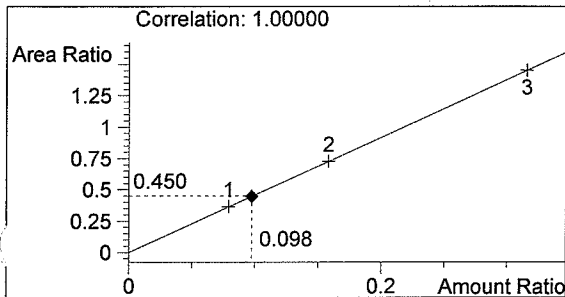
WP MARSHALL

vial # 16

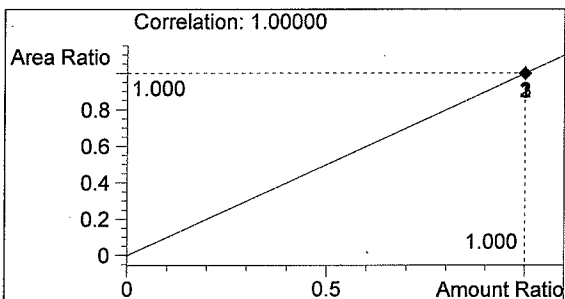


#	Compound	Area	RT
1	ETHANOL	1264	1.093
2	n-PROPANOL	2811	1.756

Totals:



ETHANOL 0.098 g/100mL

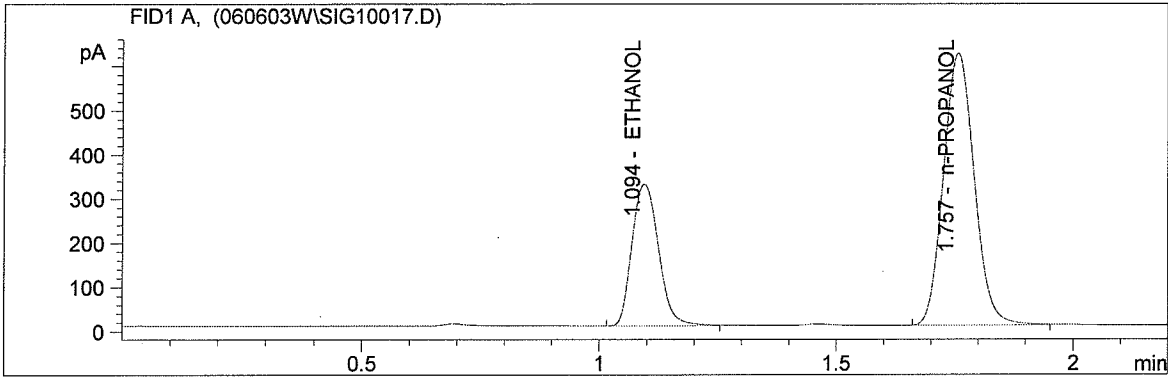


n-PROPANOL 1.000 g/100mL

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 Instrument 3
 ALC1

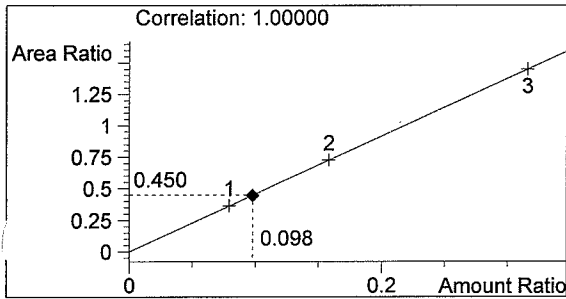
QA 03015 .08
 WP MARSHALL

vial # 17

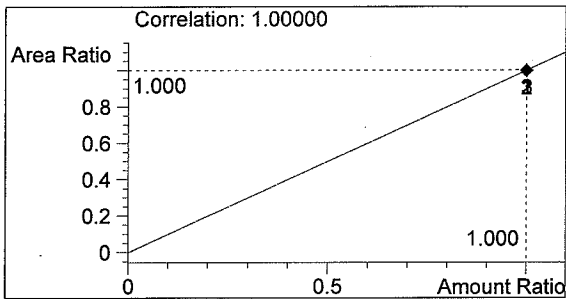


#	Compound	Area	RT
1	ETHANOL	1258	1.094
2	n-PROPANOL	2792	1.757

Totals:



ETHANOL 0.098 g/100mL

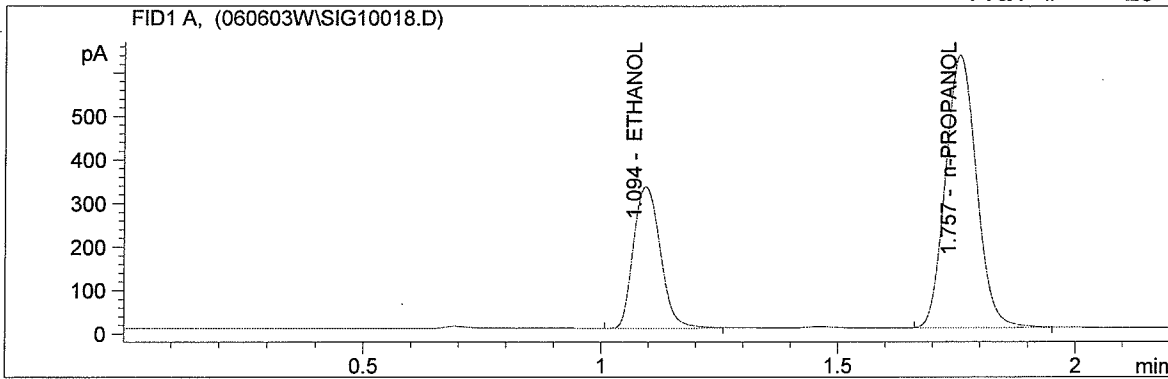


n-PROPANOL 1.000 g/100mL

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 Instrument 3
 ALC1

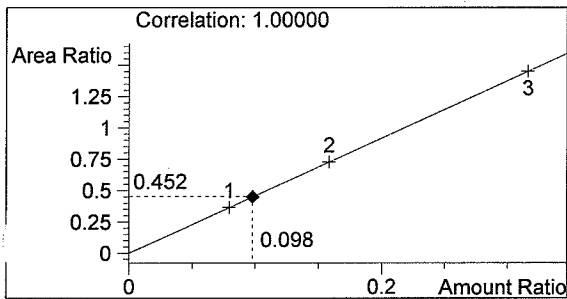
QA 03015 .08
 WP MARSHALL

vial # 18

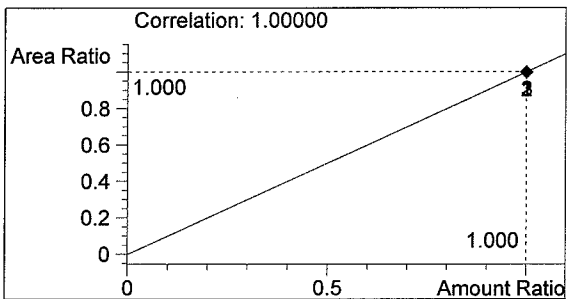


#	Compound	Area	RT
1	ETHANOL	1297	1.094
2	n-PROPANOL	2872	1.757

Totals:



ETHANOL 0.098 g/100mL

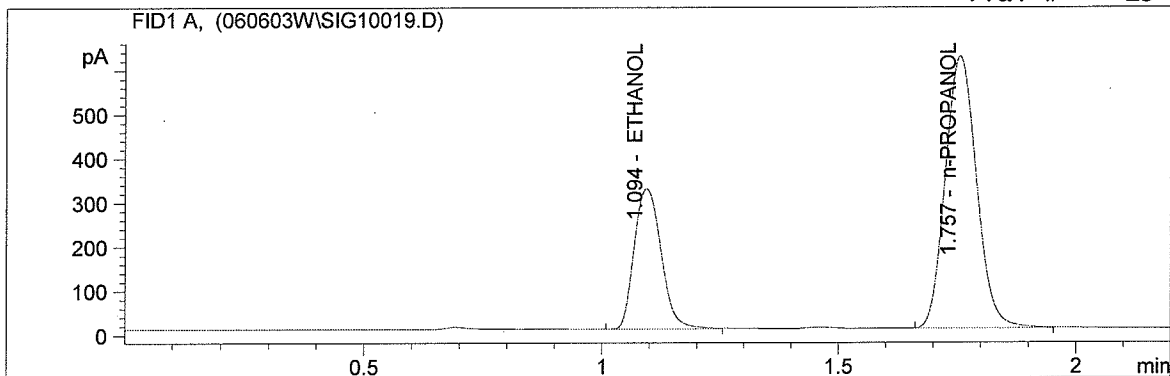


n-PROPANOL 1.000 g/100mL

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 Instrument 3
 ALC1

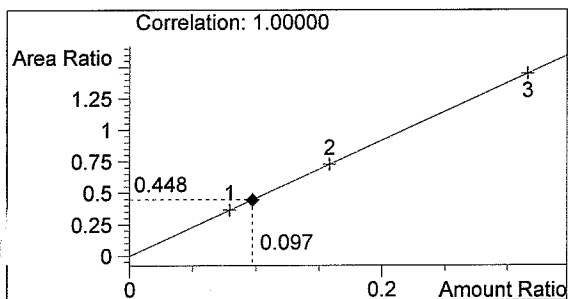
QA 03015 .08
 WP MARSHALL

vial # 19

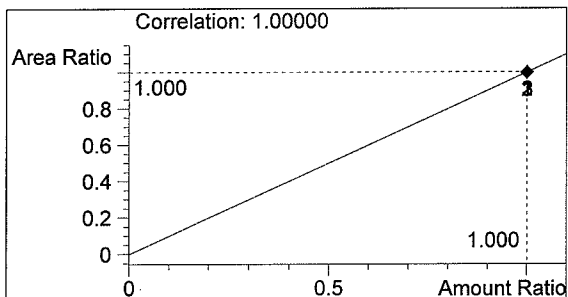


#	Compound	Area	RT
1	ETHANOL	1263	1.094
2	n-PROPANOL	2819	1.757

Totals:



ETHANOL 0.097 g/100mL

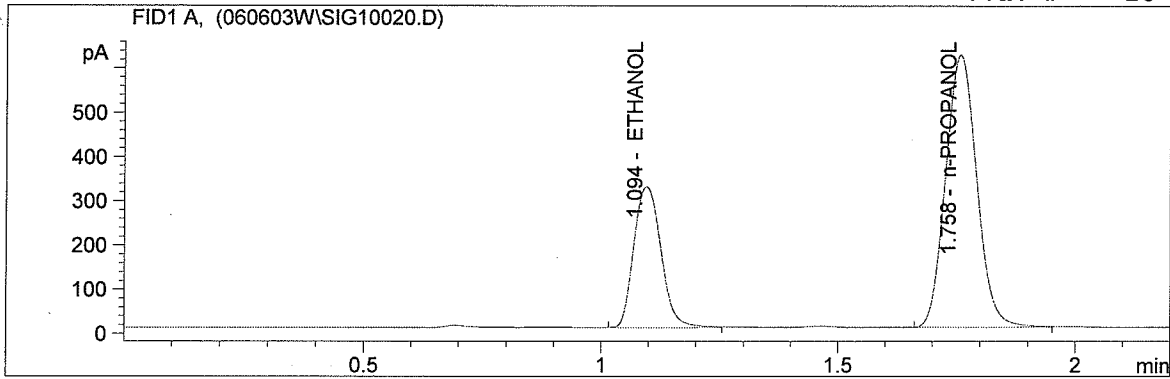


n-PROPANOL 1.000 g/100mL

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 Instrument 3
 ALC1

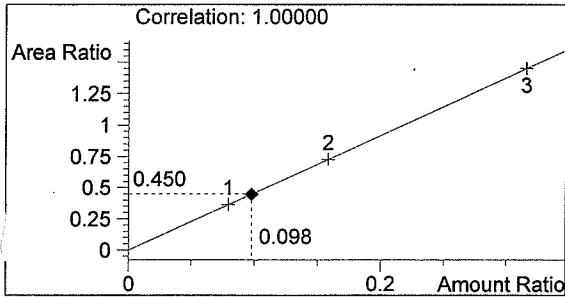
QA 03015 .08
 WP MARSHALL

vial # 20

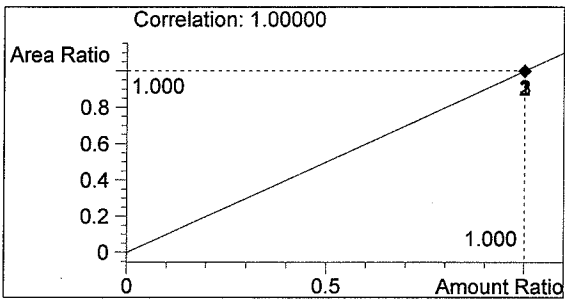


#	Compound	Area	RT
1	ETHANOL	1268	1.094
2	n-PROPANOL	2819	1.758

Totals:



ETHANOL 0.098 g/100mL



n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M

6/6/03 3:43:55 PM

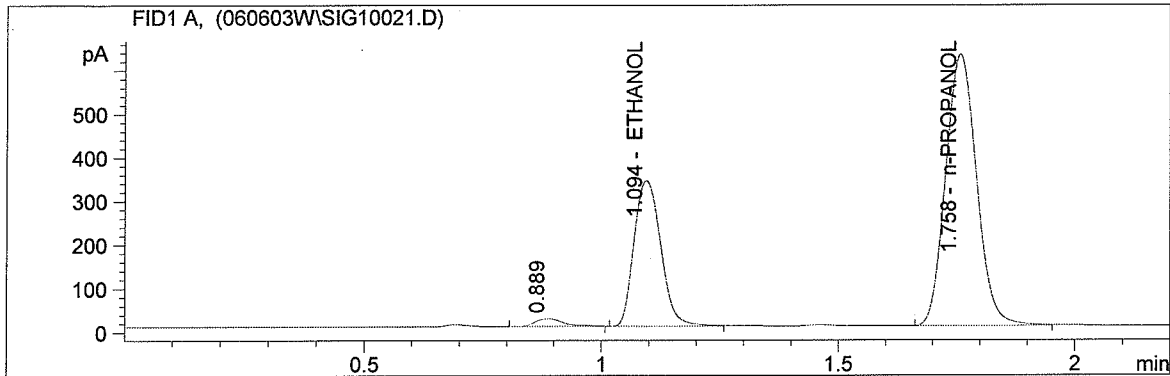
Instrument 3

ALC1

0.100 CONTROL

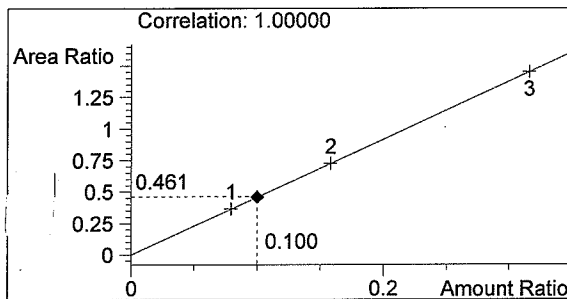
WP MARSHALL

vial # 21

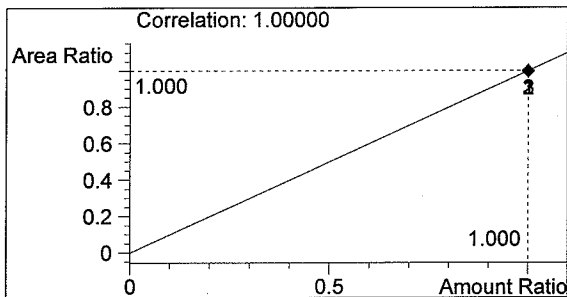


#	Compound	Area	RT
1		74	0.889
2	ETHANOL	1305	1.094
3	n-PROPANOL	2829	1.758

Totals:



ETHANOL 0.100 g/100mL



n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO.M

6/6/03 3:00:02 PM

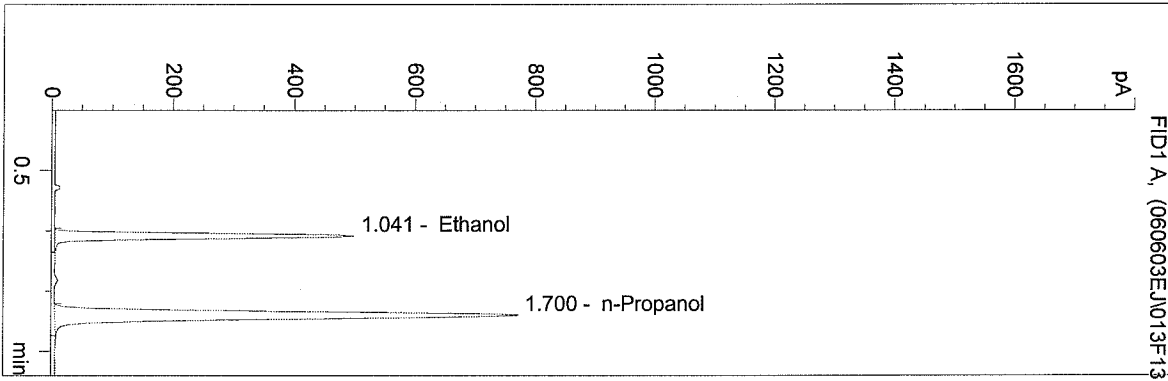
Instrument 1

ALC1

Q.C. 03015

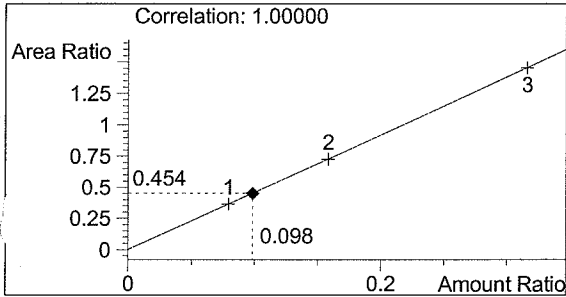
Estuardo J. Miranda

vial # 13



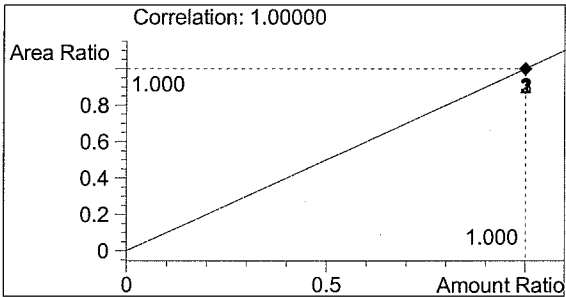
#	Compound	Area	RT
1	Ethanol	1452	1.041
2	n-Propanol	3200	1.700

Totals:



Ethanol 0.098 g/100ml

EM
115-7008

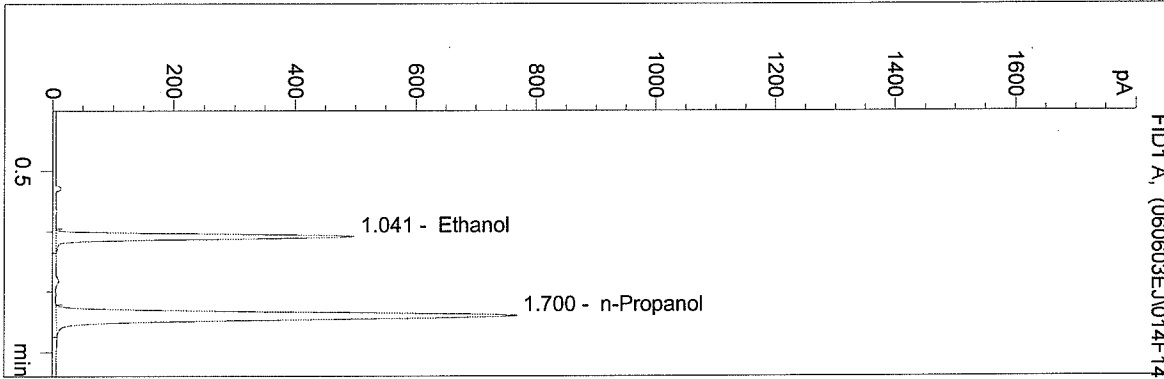


n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M
 6/6/03 3:03:04 PM
 Instrument 1
 ALC1

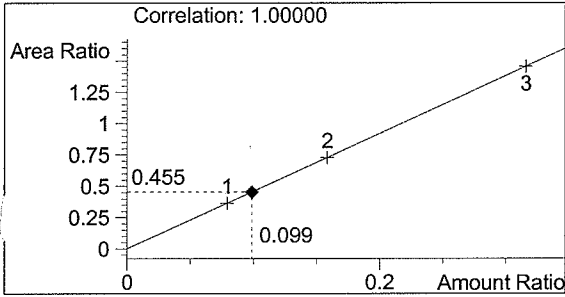
Q.C. 03015
 Estuardo J. Miranda

vial # 14



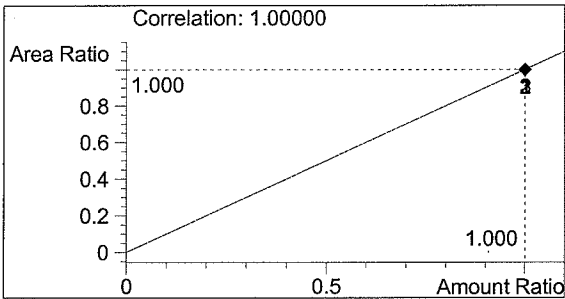
#	Compound	Area	RT
1	Ethanol	1449	1.041
2	n-Propanol	3183	1.700

Totals:



Ethanol 0.099 g/100ml

EM
 1-15-2008



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

6/6/03 3:06:06 PM

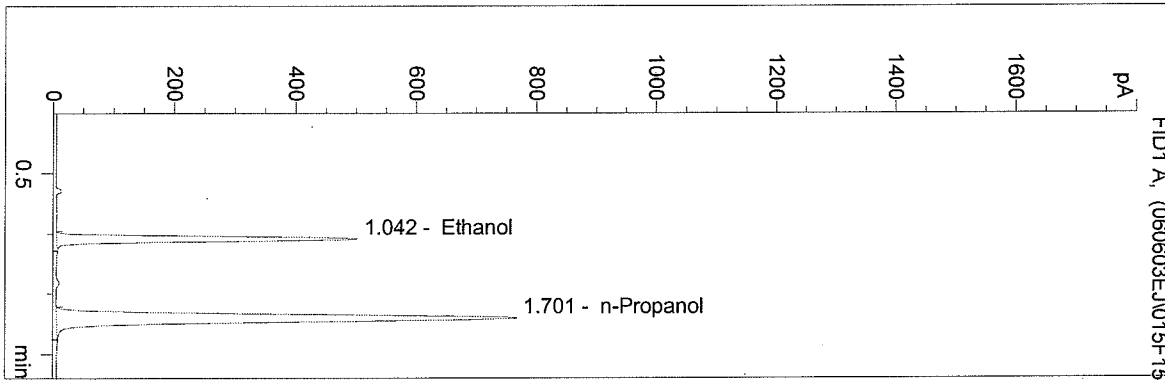
Instrument 1

ALC1

Q.C. 03015

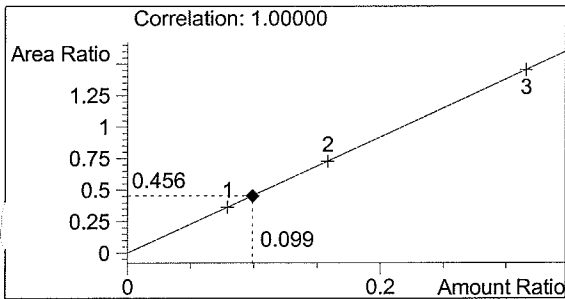
Estuardo J. Miranda

vial # 15



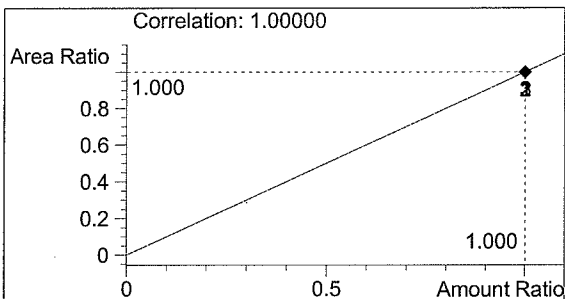
#	Compound	Area	RT
1	Ethanol	1448	1.042
2	n-Propanol	3172	1.701

Totals:



Ethanol 0.099 g/100ml

EM
1-15-2008



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

6/6/03 3:09:08 PM

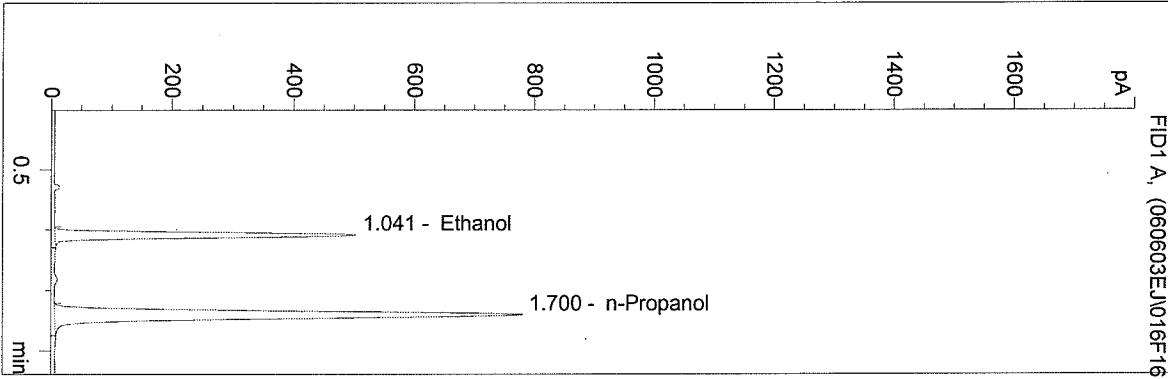
Instrument 1

ALC1

Q.C. 03015

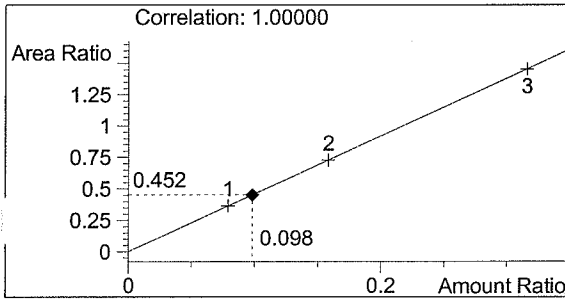
Estuardo J. Miranda

vial # 16



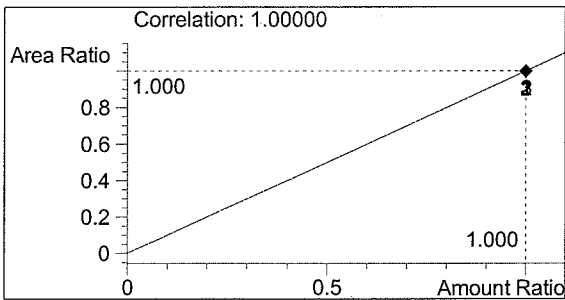
#	Compound	Area	RT
1	Ethanol	1467	1.041
2	n-Propanol	3243	1.700

Totals:



Ethanol 0.098 g/100ml

EM
1-15-2003



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

6/6/03 3:12:28 PM

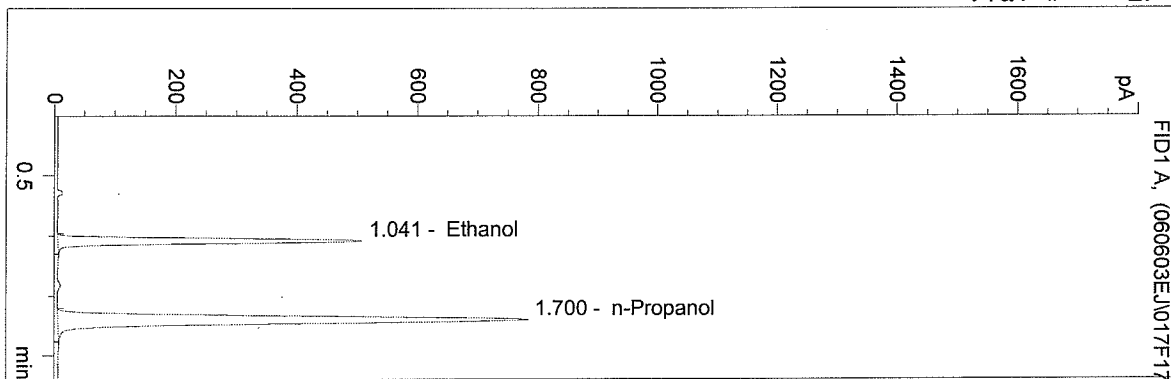
Instrument 1

ALC1

Q.C. 03015

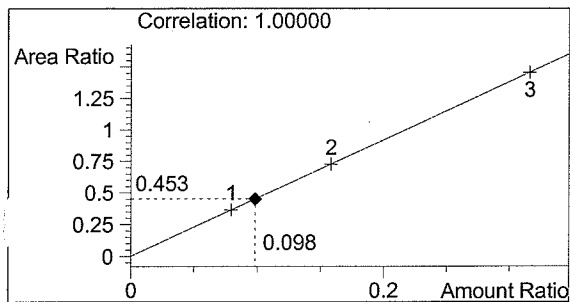
Estuardo J. Miranda

vial # 17



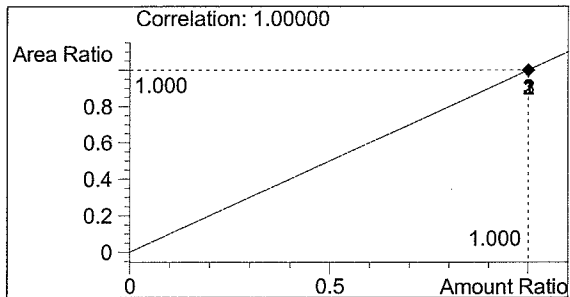
#	Compound	Area	RT
1	Ethanol	1470	1.041
2	n-Propanol	3241	1.700

Totals:



Ethanol 0.098 g/100ml

EM
1-15-2008

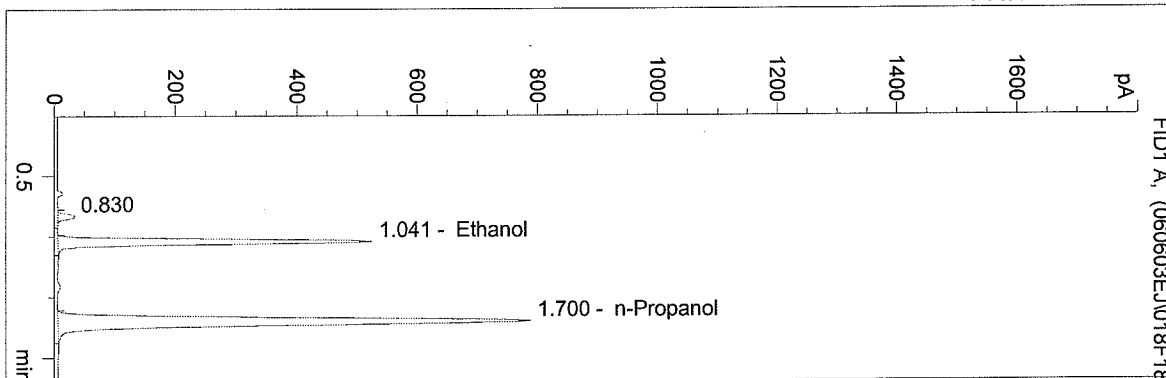


n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M
 6/6/03 3:15:30 PM
 Instrument 1
 ALC1

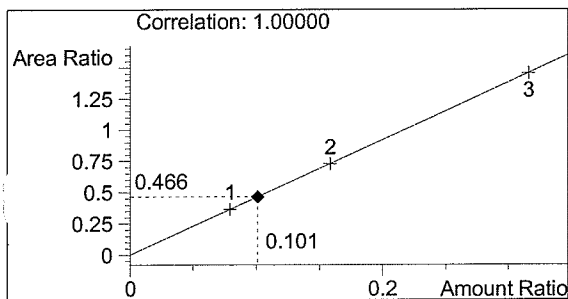
0.100 Control
 Estuardo J. Miranda

vial # 18



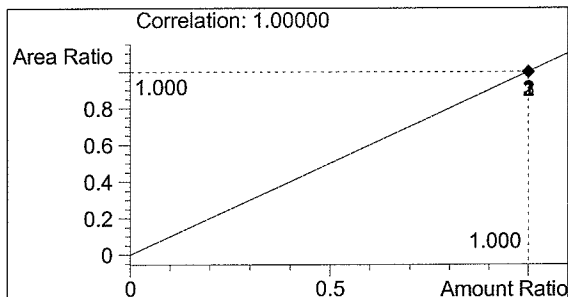
#	Compound	Area	RT
1		81	0.830
2	Ethanol	1519	1.041
3	n-Propanol	3257	1.700

Totals:



Ethanol 0.101 g/100ml

EM
 1-15-2008



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

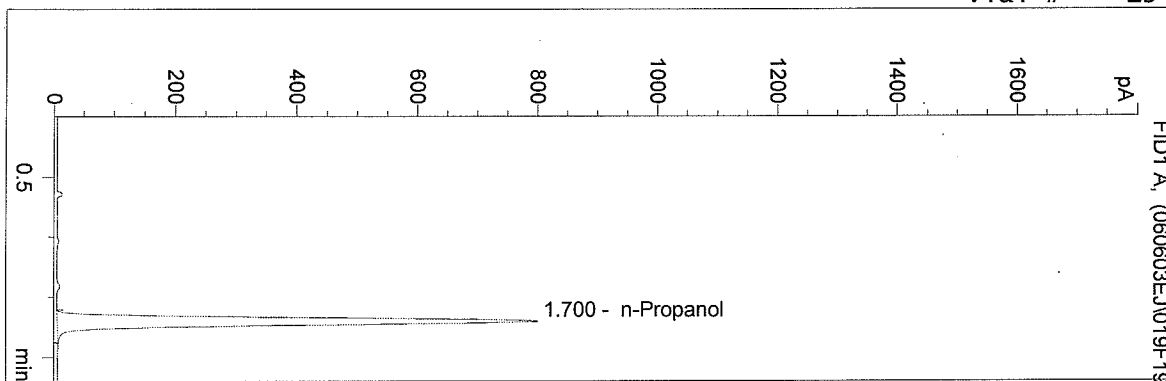
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Instrument 1

ALC1

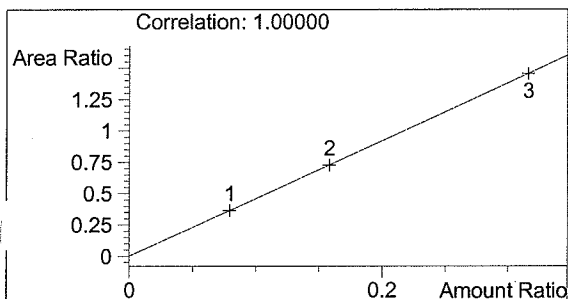
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Estuardo J. Miranda

vial # 19



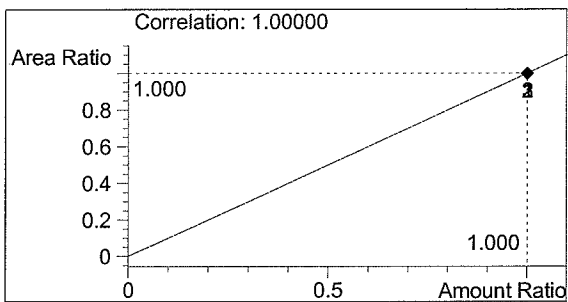
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1	Ethanol	0	0.000
2	n-Propanol	3318	1.700

Totals:



Ethanol 0.000 g/100ml

EM
1-15-2008

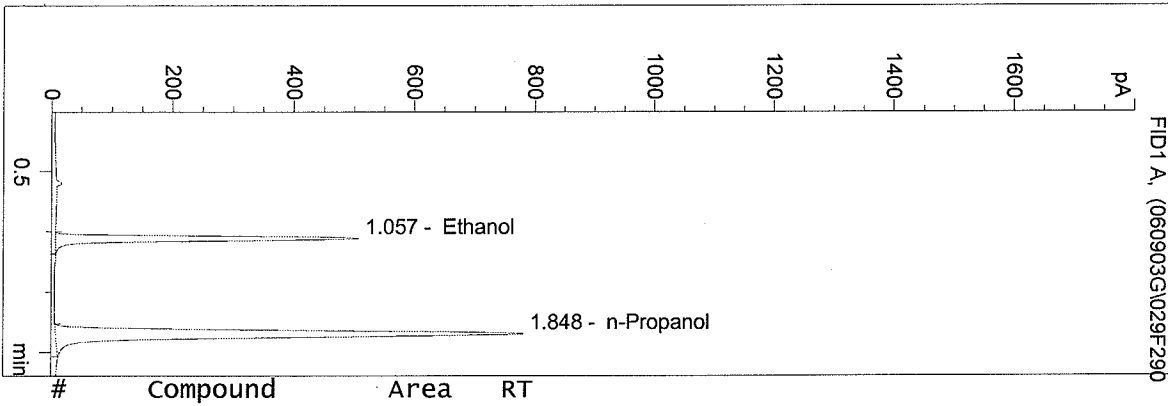


n-Propanol 1.000 g/100ml

STD5 033569

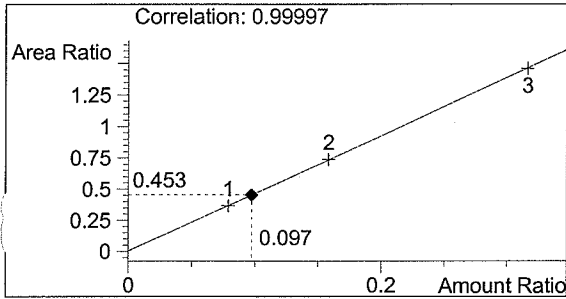
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 Instrument 2
 ALC1

0.08QASOL 03015
 Gene Schwilke
 vial # 29

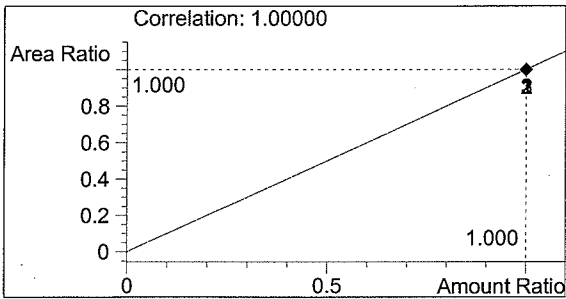


#	Compound	Area	RT
1	Ethanol	1355	1.057
2	n-Propanol	2993	1.848

Totals:



Ethanol 0.097 g/100ml

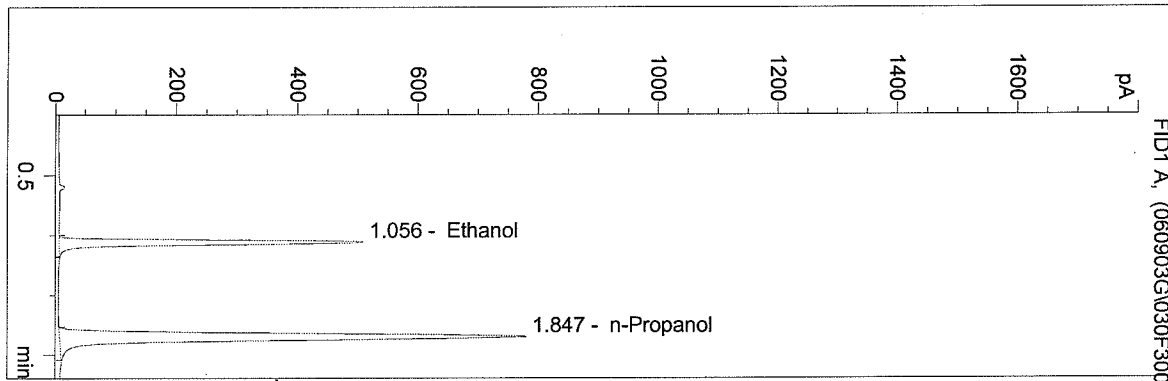


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M
 6/9/03 11:41:48 AM
 Instrument 2
 ALC1

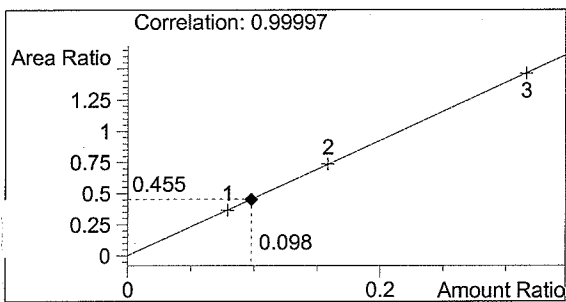
0.08QASOL 03015
 Gene Schwilke

vial # 30

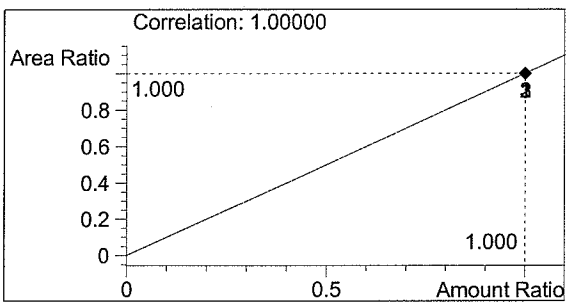


#	Compound	Area	RT
1	Ethanol	1364	1.056
2	n-Propanol	2998	1.847

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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

6/9/03 11:44:50 AM

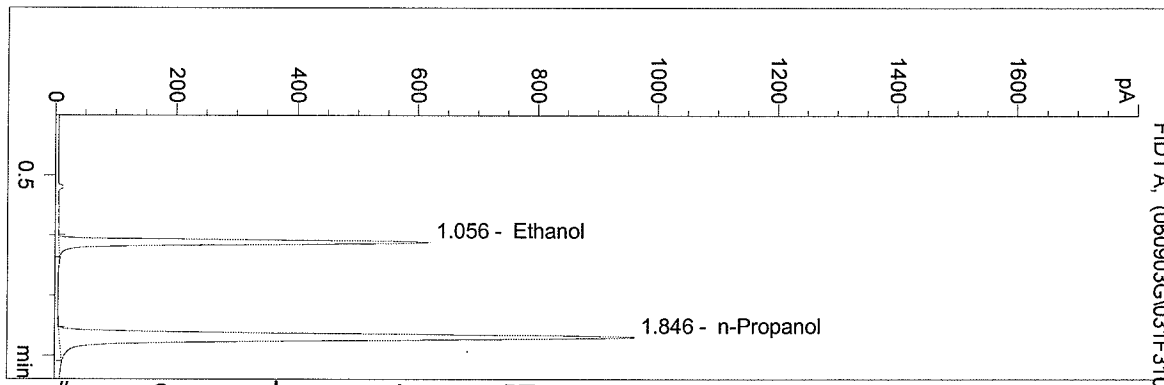
Instrument 2

ALC1

0.08QASOL 03015

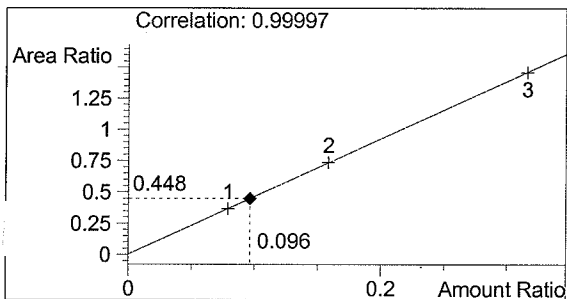
Gene Schwilke

vial # 31

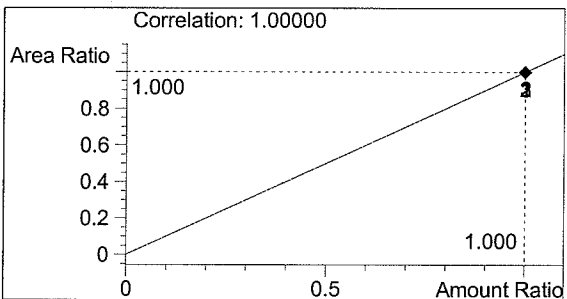


#	Compound	Area	RT
1	Ethanol	1656	1.056
2	n-Propanol	3694	1.846

Totals:



Ethanol 0.096 g/100ml

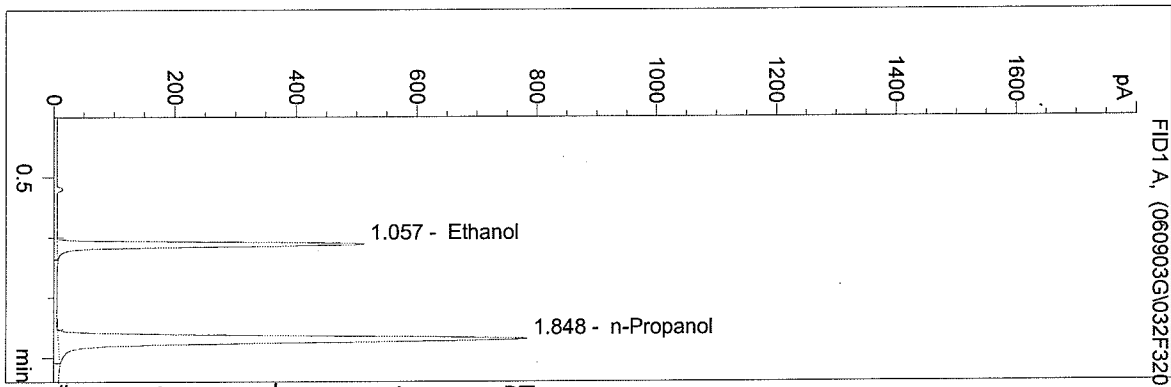


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M
 6/9/03 11:47:52 AM
 Instrument 2
 ALC1

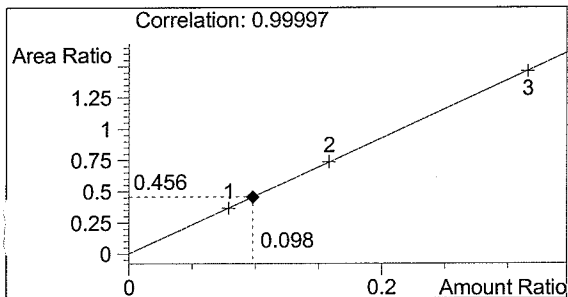
0.08QASOL 03015
 Gene Schwilke

vial # 32

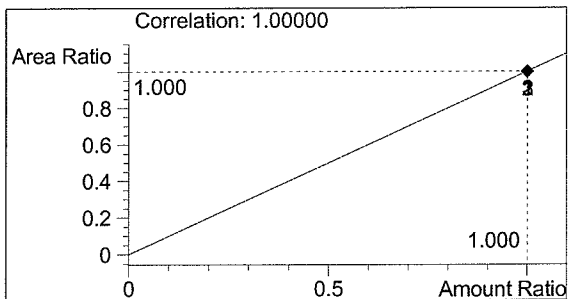


#	Compound	Area	RT
1	Ethanol	1374	1.057
2	n-Propanol	3012	1.848

Totals:



Ethanol 0.098 g/100ml

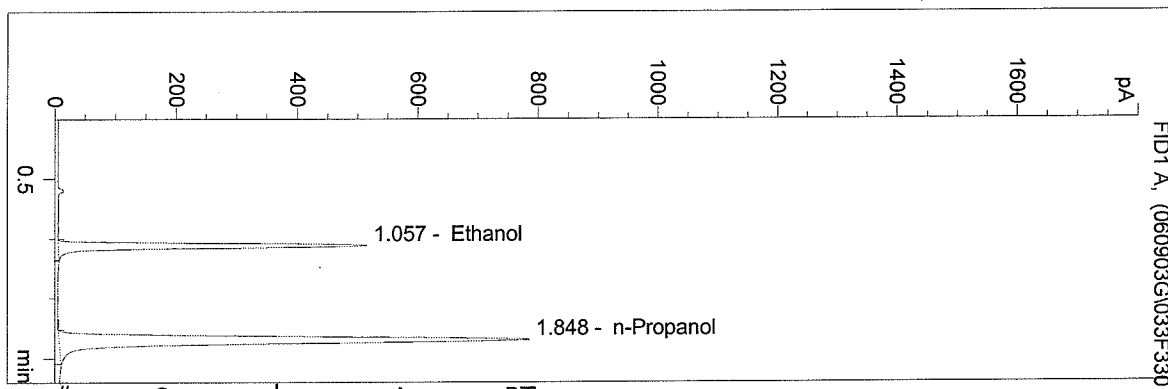


n-Propanol 1.000 g/100ml

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 Instrument 2
 ALC1

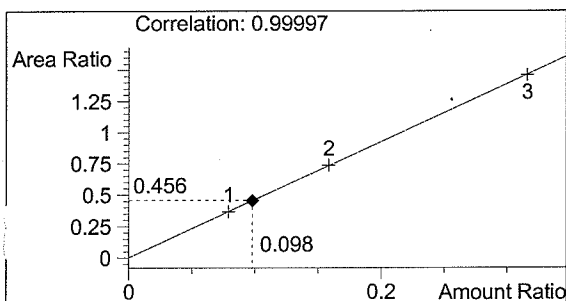
0.08QASOL 03015
 Gene Schwilke

vial # 33

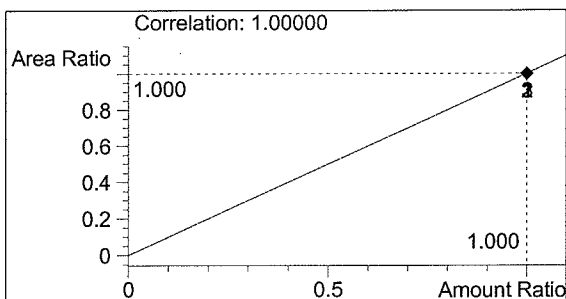


#	Compound	Area	RT
1	Ethanol	1378	1.057
2	n-Propanol	3020	1.848

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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

6/9/03 11:32:38 AM

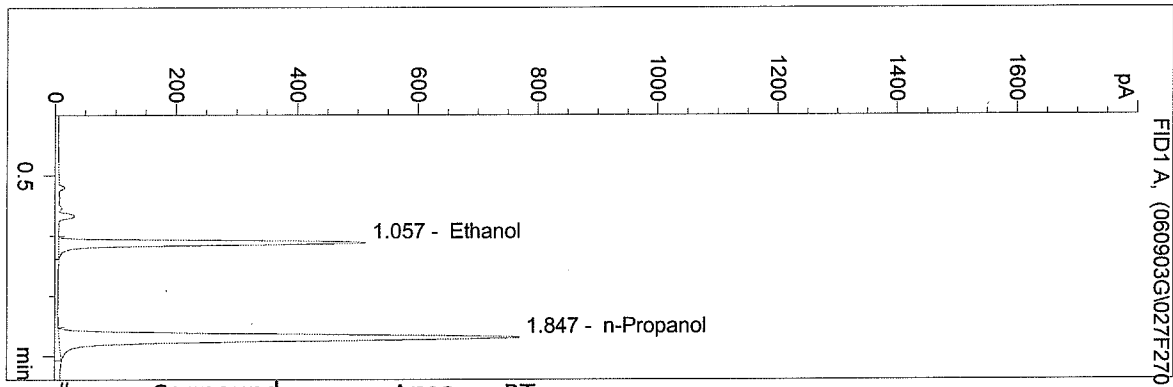
Instrument 2

ALC1

CAP 0.100

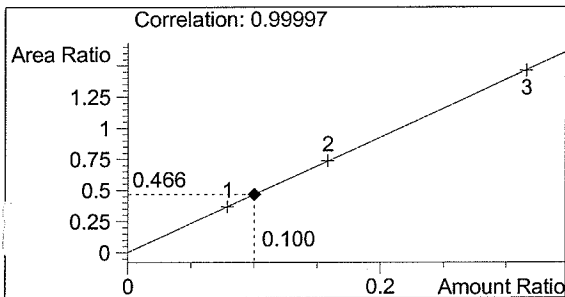
Gene Schwilke

vial # 27

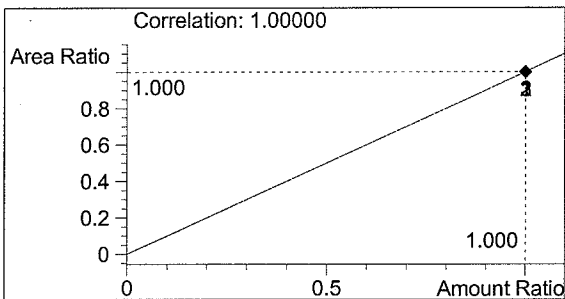


#	Compound	Area	RT
1	Ethanol	1383	1.057
2	n-Propanol	2965	1.847

Totals:



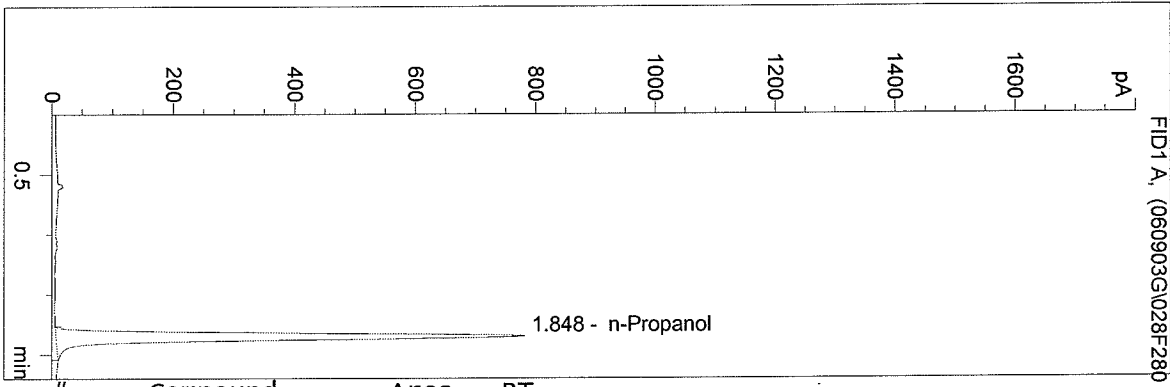
Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

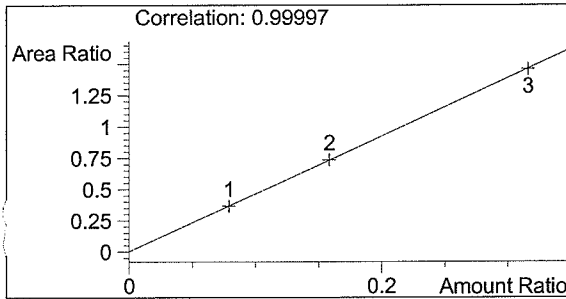
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 Instrument 2
 ALC1

BLANK
 Gene Schwilke
 vial # 28

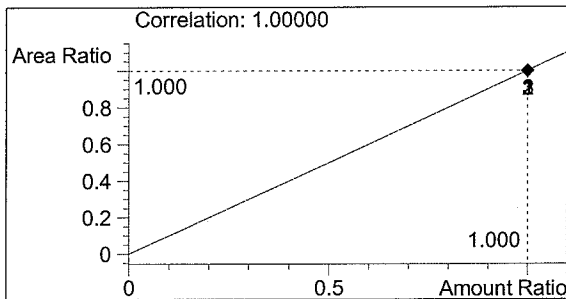


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3001	1.848

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml