WASHINGTON STATE TOXICOLOGY LABORATORY
FORENSIC LABORATORY SERVICES BUREAU
WASHINGTON STATE PATROL
2203 AIRPORT WAY S, SUITE 360
SEATTLE, WASHINGTON 98134-2027
(206) 262-6100 FAX (206) 262-6145

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

Date: 9/17/2003

Batch number **03032**

Preparation: 28.9 mL of absolute ethyl alcohol diluted to 18 Liters with water

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.130	0.126	0.128									
2	0.128	0.127	0.127									
3	0.129	0.127	0.129									
4	0.130	0.126	0.127									
5	0.130	0.127	0.127									
Ctrl	0.102	0.099	0.098									

External Control:

Lot #: A024546 Exp date: 09/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1279 g/100 mL

SD: 0.00141

Range (3xSD): 0.1236 to 0.1321

Precision CV (%): 1.1007 %

Equivalent vapor concent.: 0.1040 g/210L

Analyst	Name	Signature	Date
1	Estuardo J. Miranda		09/17/03
2	Edward Formoso		09/17/03
3	Mary E Wilson		09/19/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Estuardo J. Miranda 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, 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 03032 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1279 grams per 100ml.

Dated: 9/23/03
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/bf
EMQA

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, Edward J. Formoso, do certify under penalty of perjury as follows:

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

I possess the following qualifications: B.S. degree in Chemistry and twenty-eight years experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03032, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1279 grams per 100ml.

Dated: 9/23/03
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/bf
EFQA

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, Mary E. Wilson, 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 and a minor in Chemistry with two years of experience in toxicology, including one year in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03032, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1279 grams per 100ml.

Dated: 9/23/03
Seattle, WA

Mary E. Wilson
Forensic Toxicologist

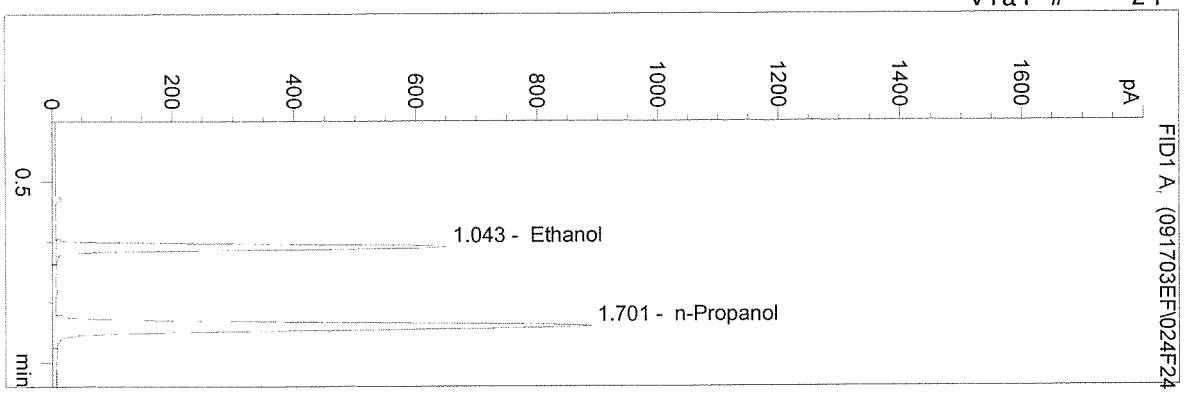
MEW/bf
MEWQA

WASHINGTON STATE TOXICOLOGY LABORATORY

\HPCHEM\1\METHODS\BLDALCO.M
'17/03 4:18:16 PM
ıstrument 1
ALC1

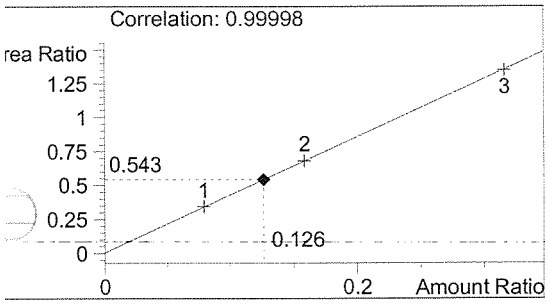
03032
ED FORMOSO

vial # 24

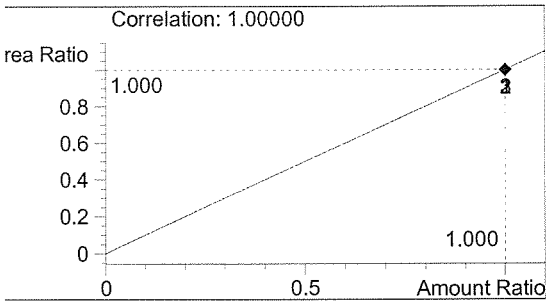


#	Compound	Area	RT
1	Ethanol	2065	1.043
2	n-Propanol	3800	1.701

Totals:



Ethanol 0.126 g/100ml



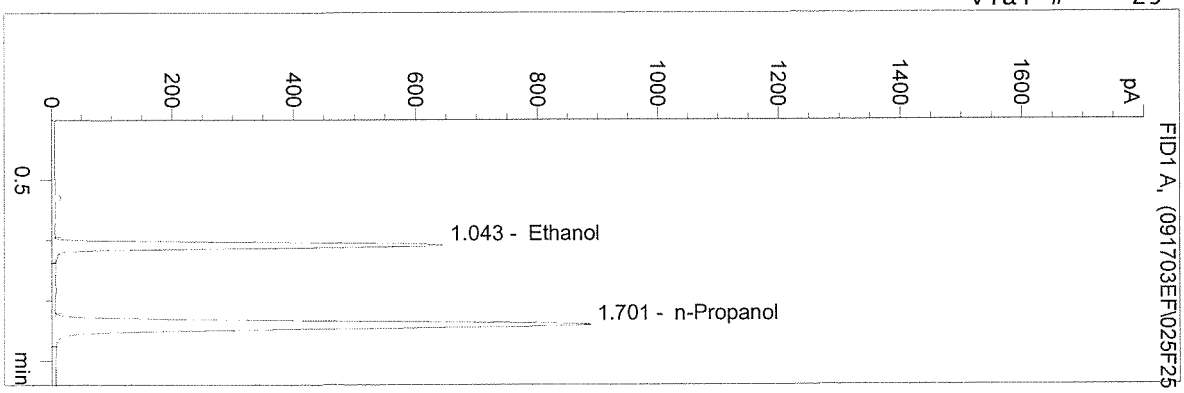
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

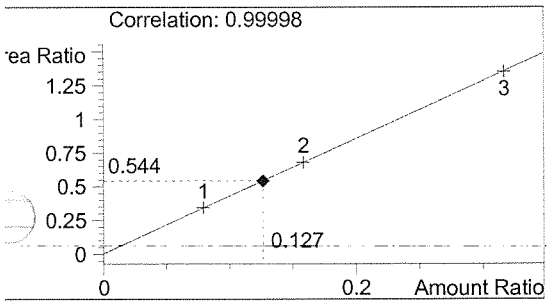
\HPCHEM\1\METHODS\BLDALCO.M
'17/03 4:21:29 PM
ıstrument 1
ALC1

03032
ED FORMOSO

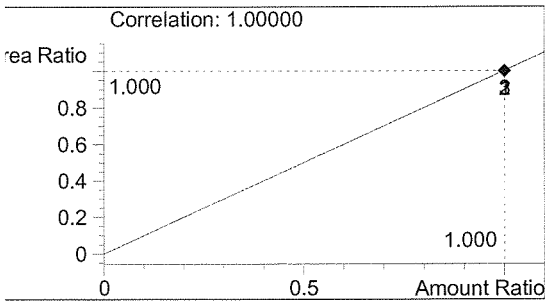
vial # 25



#	Compound	Area	RT
1	Ethanol	2074	1.043
2	n-Propanol	3813	1.701
Totals:			



Ethanol 0.127 g/100ml



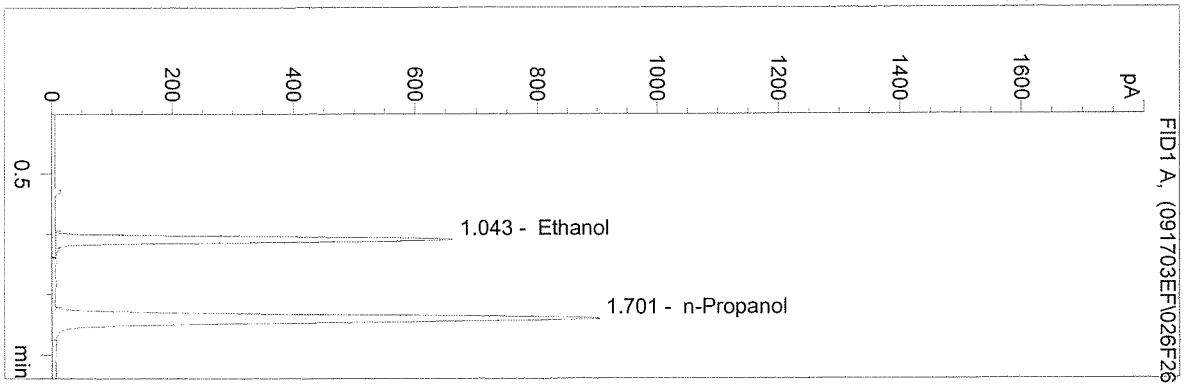
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO.M
'17/03 4:24:31 PM
ıstrument 1
ALC1

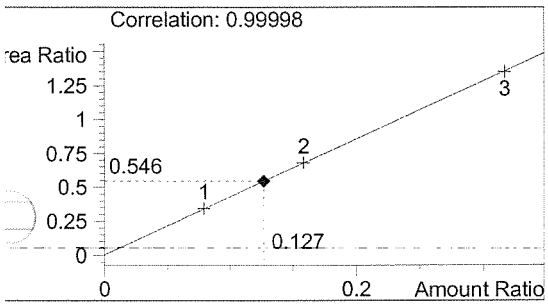
03032
ED FORMOSO

vial # 26

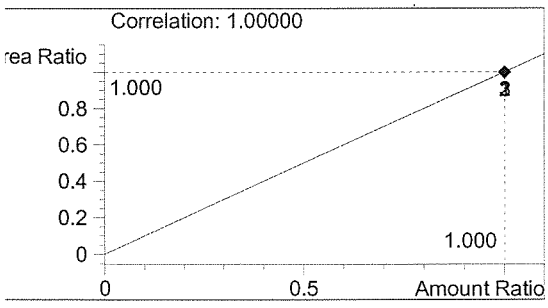


#	Compound	Area	RT
1	Ethanol	2108	1.043
2	n-Propanol	3863	1.701

Totals:



Ethanol 0.127 g/100ml



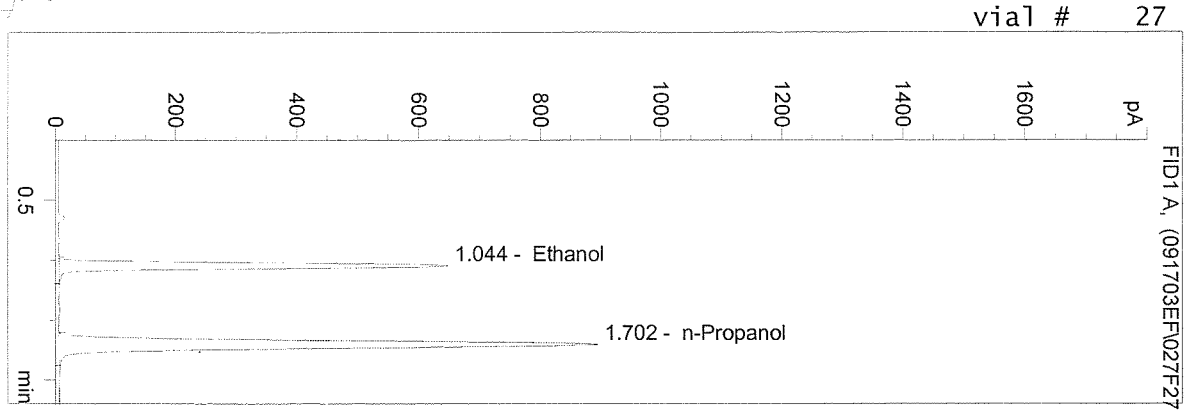
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO.M
/17/03 4:27:33 PM
ıstrument 1
ALC1

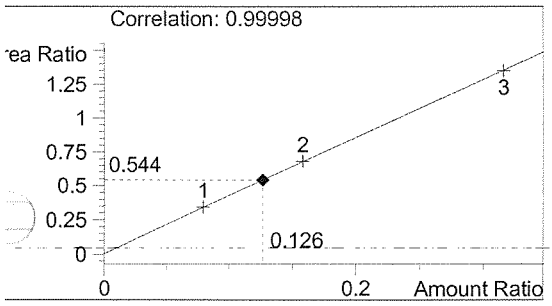
03032
ED FORMOSO

vial # 27

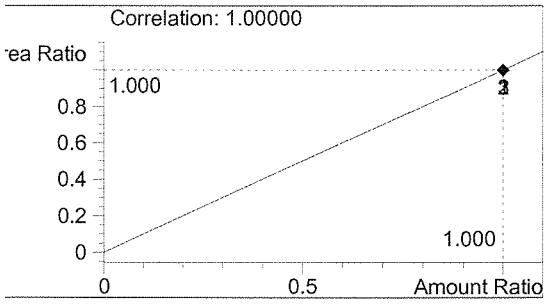


#	Compound	Area	RT
1	Ethanol	2089	1.044
2	n-Propanol	3841	1.702

Totals:



Ethanol 0.126 g/100ml



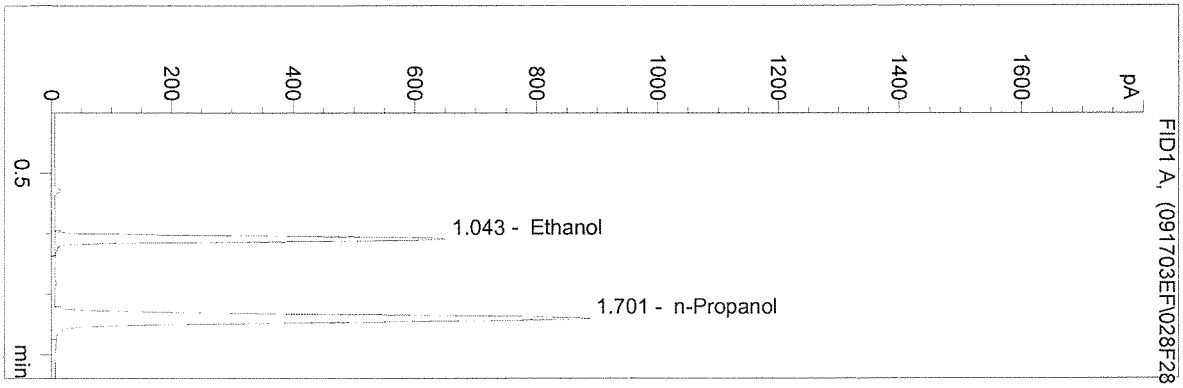
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

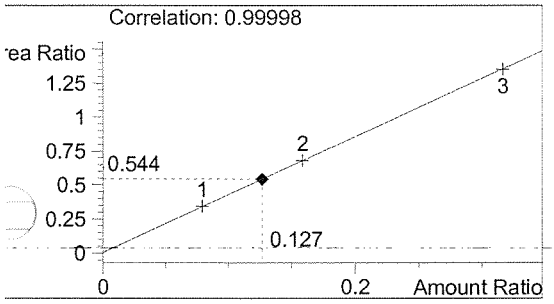
:\HPCHEM\1\METHODS\BLDALCO.M
/17/03 4:30:36 PM
ıstrument 1
ALC1

03032
ED FORMOSO

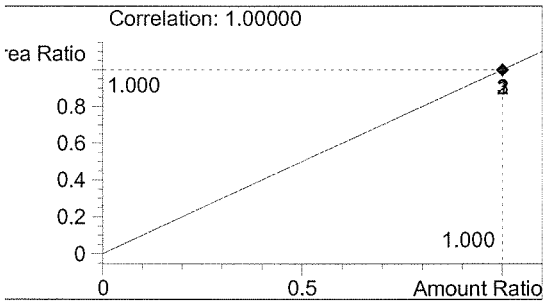
vial # 28



#	Compound	Area	RT
1	Ethanol	2066	1.043
2	n-Propanol	3794	1.701
Totals:			



Ethanol 0.127 g/100ml



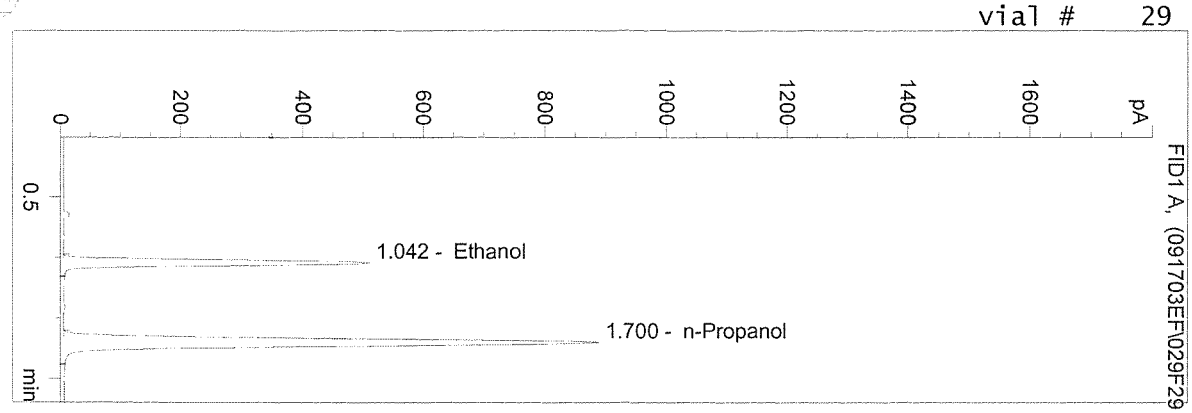
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO.M
/17/03 4:33:48 PM
nstrument 1
ALC1

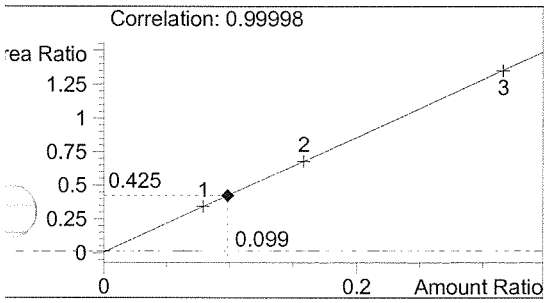
0.10 CONTROL
ED FORMOSO

vial # 29

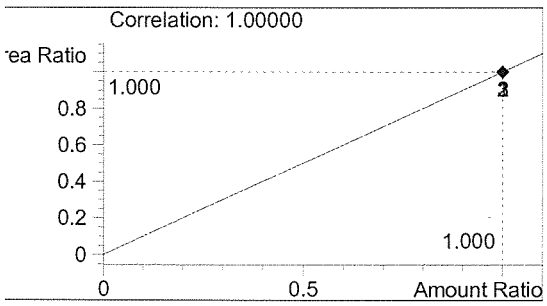


#	Compound	Area	RT
1	Ethanol	1607	1.042
2	n-Propanol	3780	1.700

Totals:



Ethanol 0.099 g/100ml



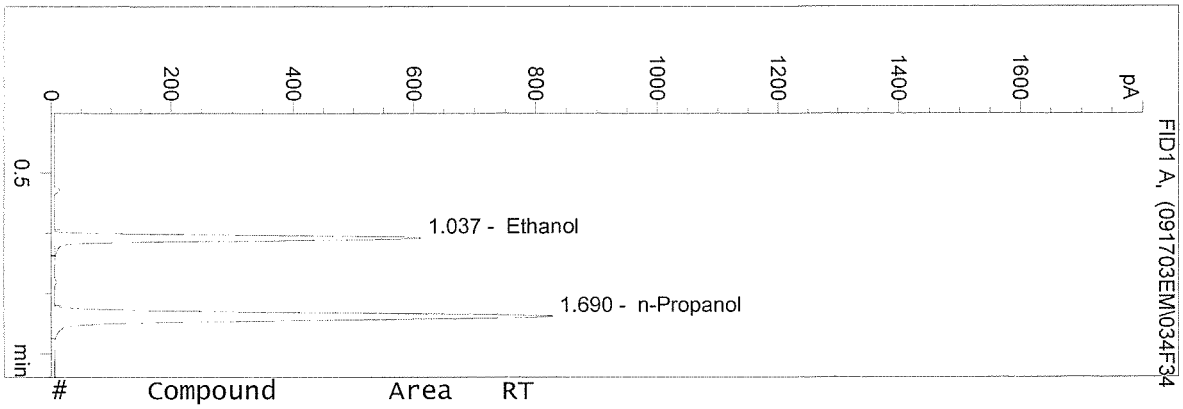
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:22:56 AM
ıstrument 2
ALC1

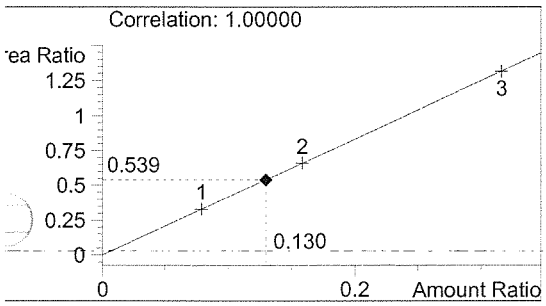
03032 Q.A. Sol.
Estuardo J. Miranda

vial # 34

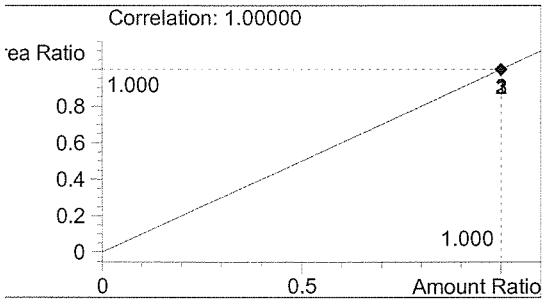


#	Compound	Area	RT
1	Ethanol	1889	1.037
2	n-Propanol	3503	1.690

Totals:



Ethanol 0.130 g/100ml



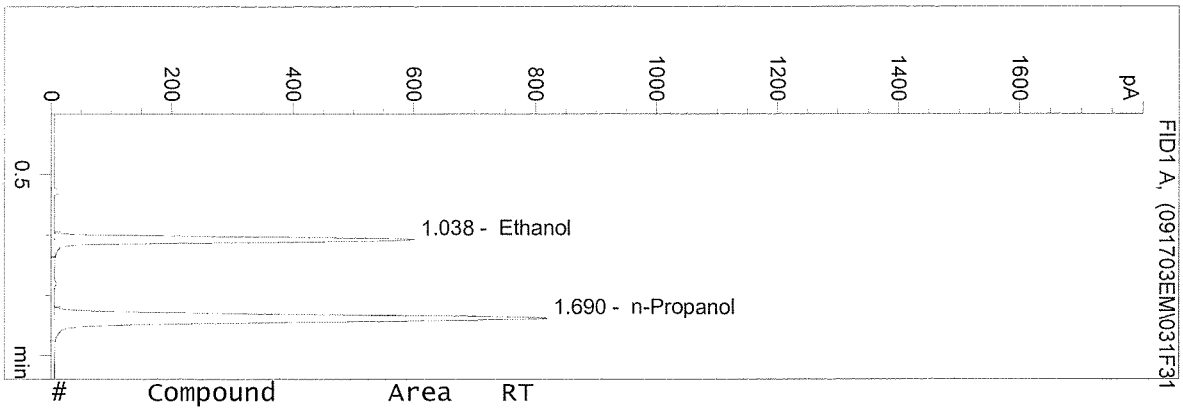
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:13:39 AM
ıstrument 2
ALC1

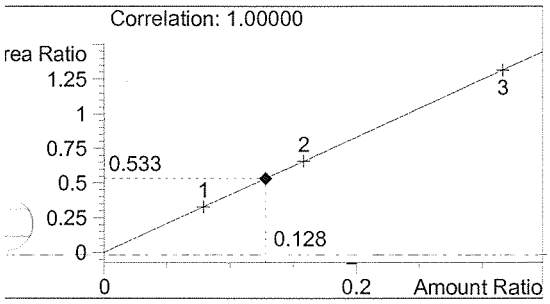
03032 Q.A. Sol.
Estuardo J. Miranda

vial # 31

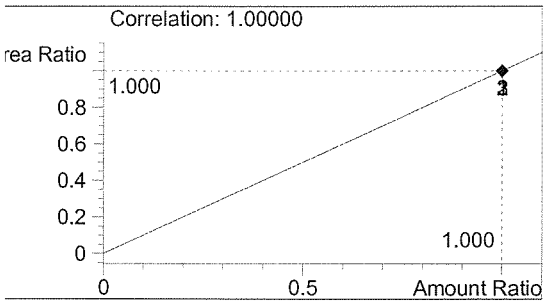


#	Compound	Area	RT
1	Ethanol	1844	1.038
2	n-Propanol	3459	1.690

Totals:



Ethanol 0.128 g/100ml



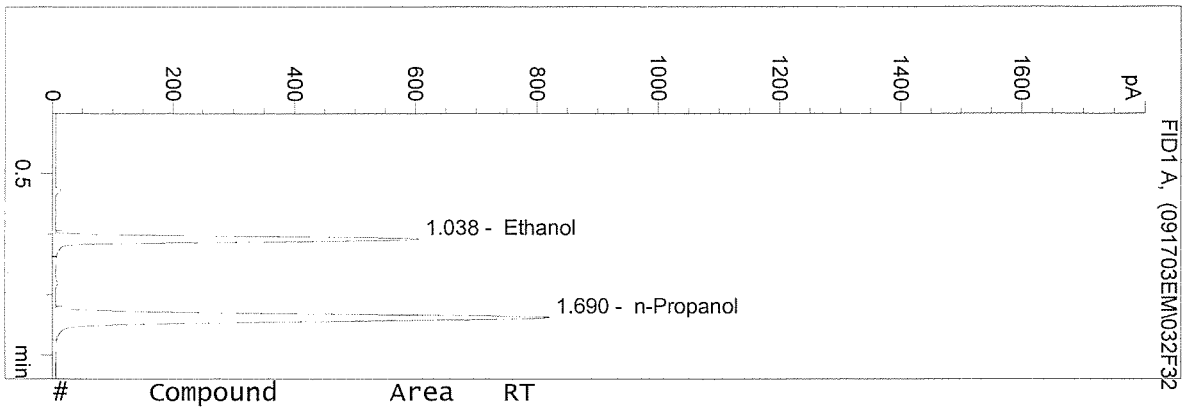
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:16:41 AM
ıstrument 2
ALC1

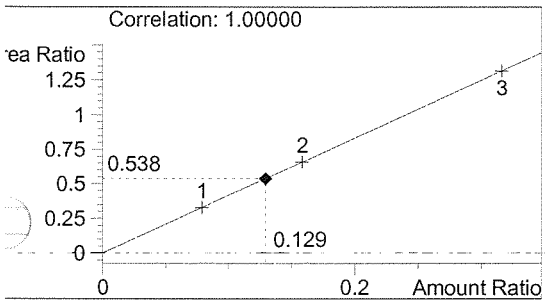
03032 Q.A. Sol.
Estuardo J. Miranda

vial # 32

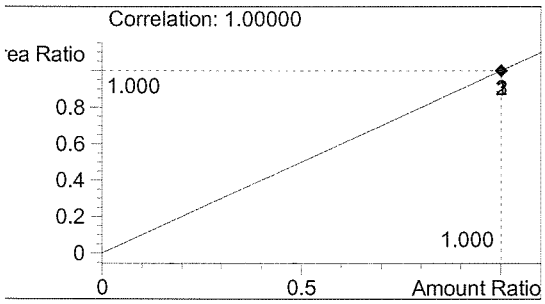


#	Compound	Area	RT
1	Ethanol	1866	1.038
2	n-Propanol	3465	1.690

Totals:



Ethanol 0.129 g/100ml



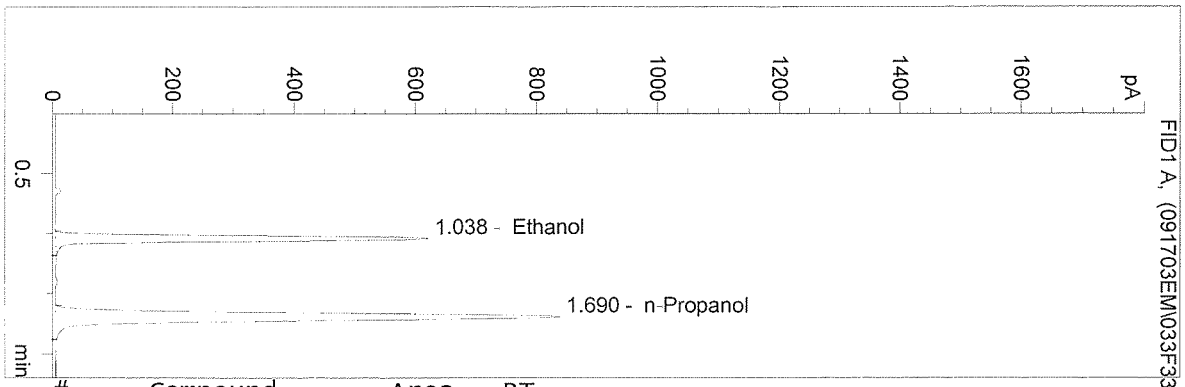
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:19:54 AM
ıstrument 2
ALC1

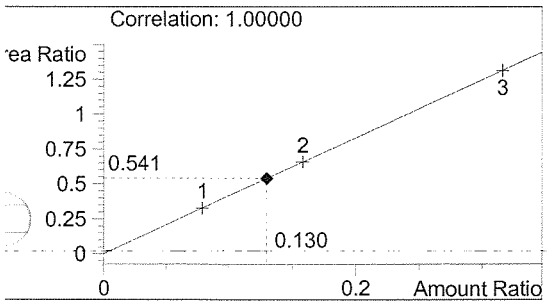
03032 Q.A. Sol.
Estuardo J. Miranda

vial # 33

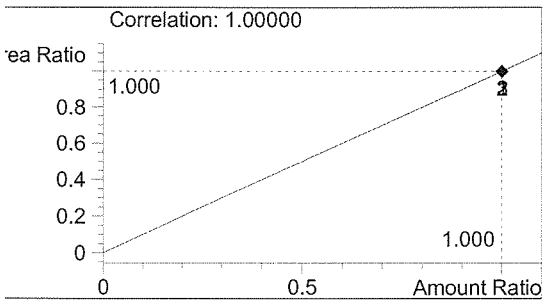


#	Compound	Area	RT
1	Ethanol	1919	1.038
2	n-Propanol	3549	1.690

Totals:



Ethanol 0.130 g/100ml



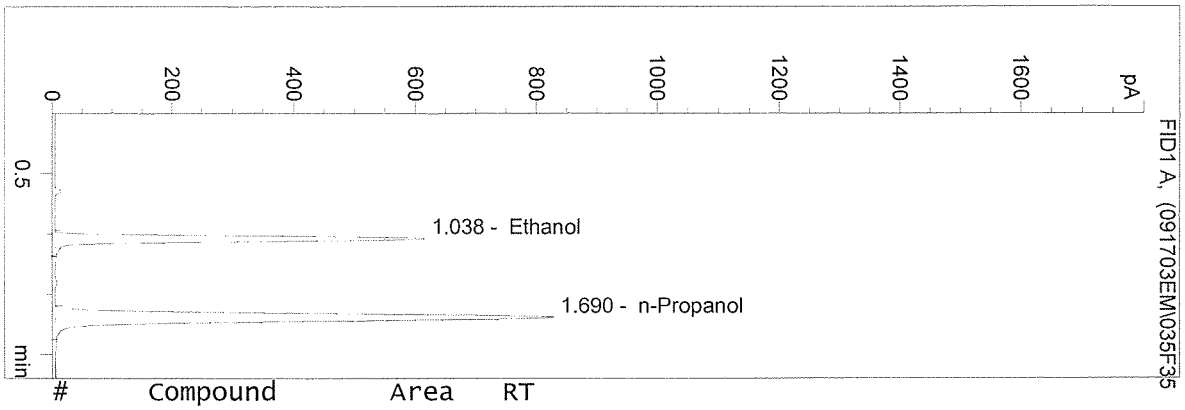
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:25:58 AM
ıstrument 2
ALC1

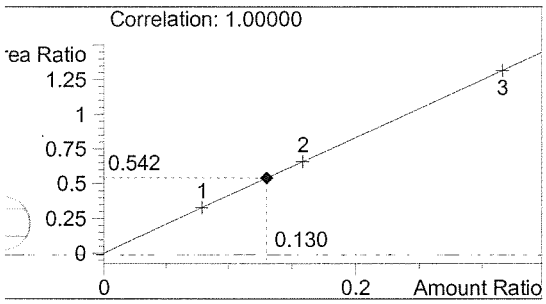
03032 Q.A. Sol.
Estuardo J. Miranda

vial # 35

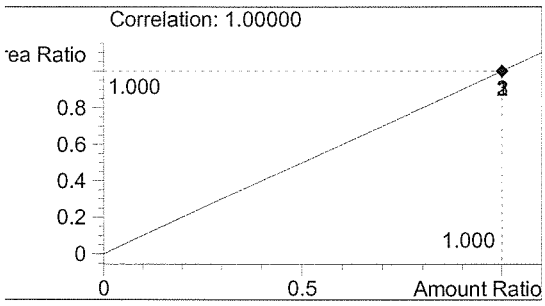


#	Compound	Area	RT
1	Ethanol	1901	1.038
2	n-Propanol	3509	1.690

Totals:



Ethanol 0.130 g/100ml



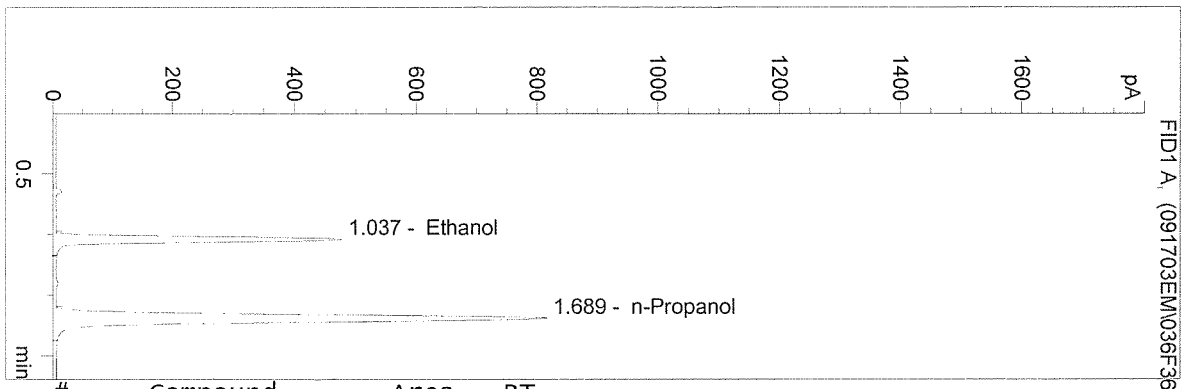
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:28:59 AM
ıstrument 2
ALC1

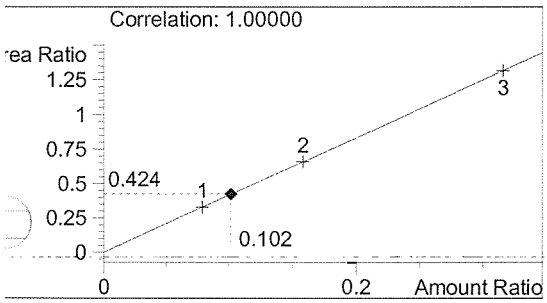
0.100 Control
Estuardo J. Miranda

vial # 36

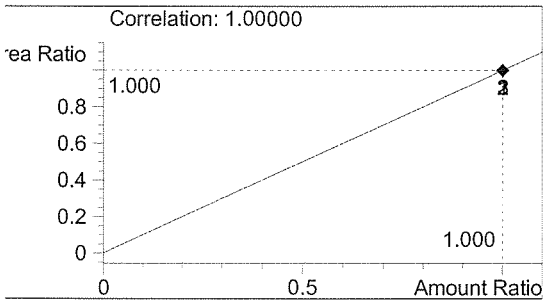


#	Compound	Area	RT
1	Ethanol	1463	1.037
2	n-Propanol	3448	1.689

Totals:



Ethanol 0.102 g/100ml



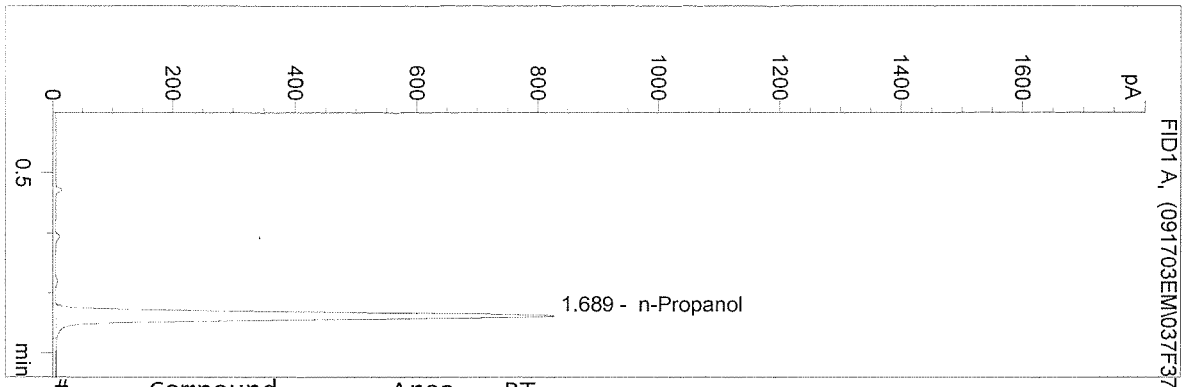
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

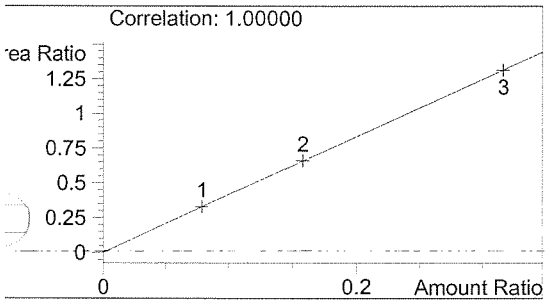
:\HPCHEM\2\METHODS\BLDALCO2.M
/17/03 11:32:13 AM
ıstrument 2
ALC1

BLANK
Estuardo J. Miranda

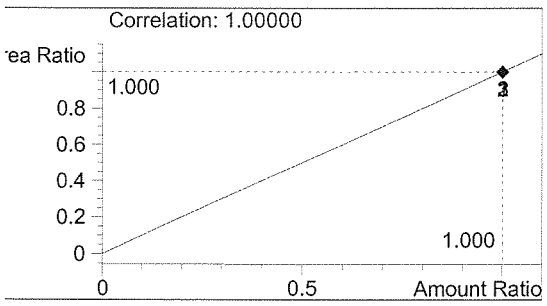
vial # 37



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3500	1.689
Totals:			



Ethanol 0.000 g/100ml

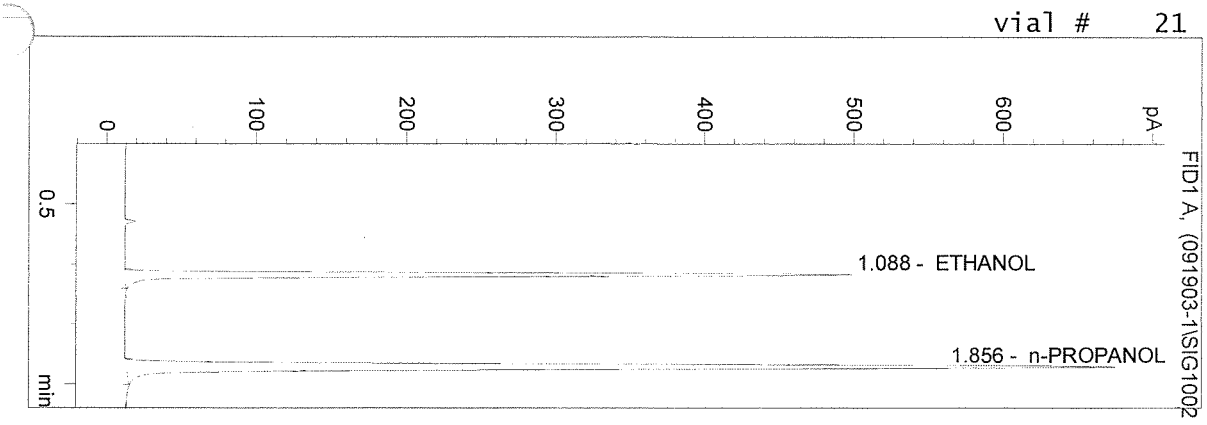


n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

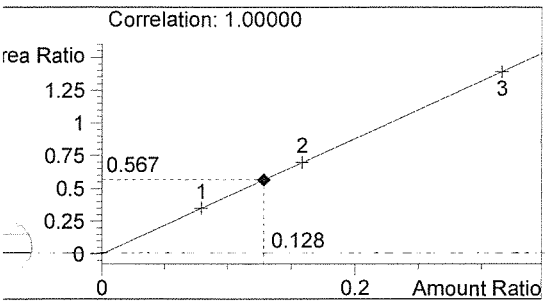
:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:27:13 AM
nstrument 3

03032QA
MARY WILSON

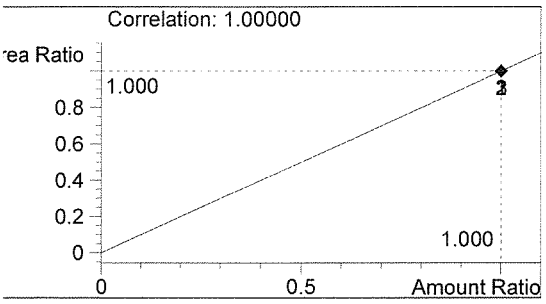


#	Compound	Area	RT
1	ETHANOL	1082	1.088
2	n-PROPANOL	1909	1.856

Totals:



ETHANOL 0.128 g/100mL

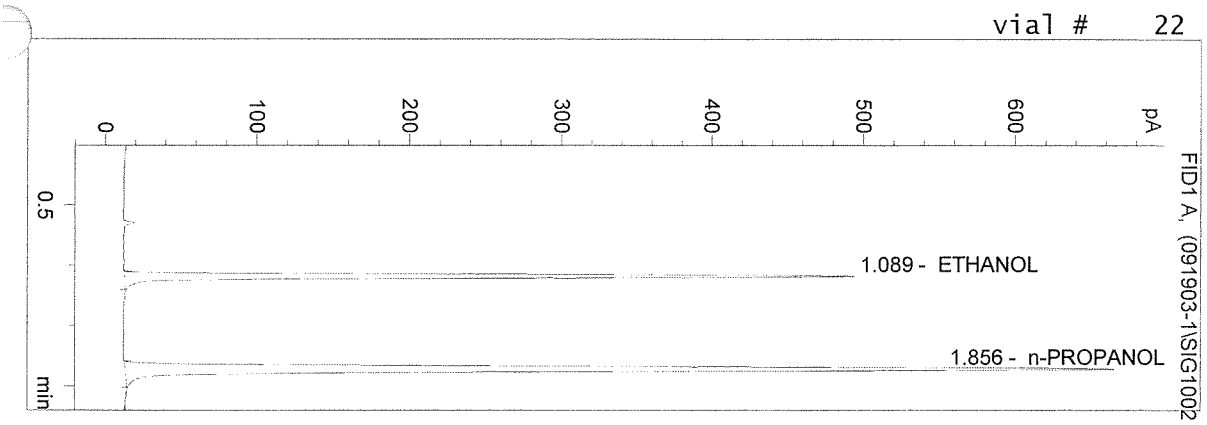


n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

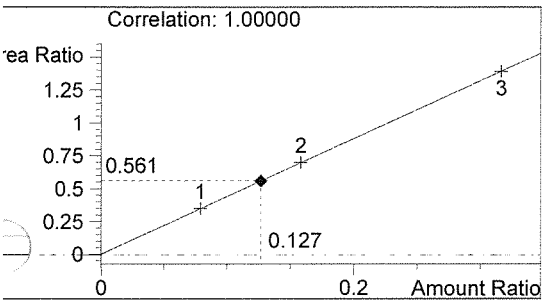
:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:30:17 AM
ıstrument 3

03032QA
MARY WILSON

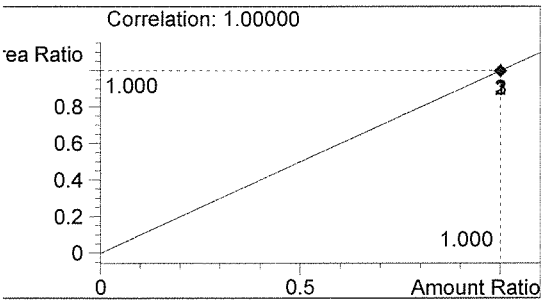


#	Compound	Area	RT
1	ETHANOL	1045	1.089
2	n-PROPANOL	1864	1.856

Totals:



ETHANOL 0.127 g/100mL

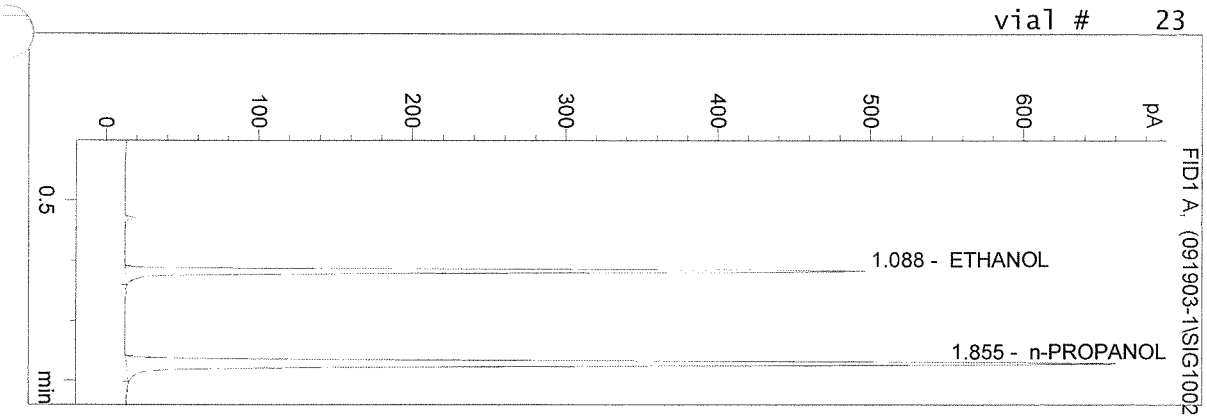


n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

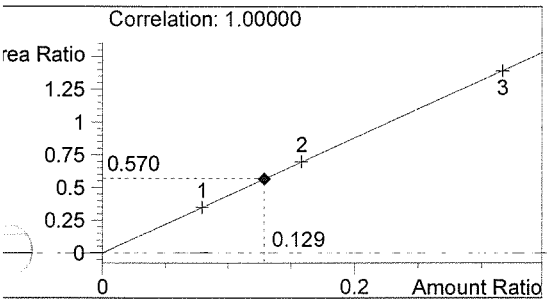
:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:33:21 AM
ıstrument 3

03032QA
MARY WILSON

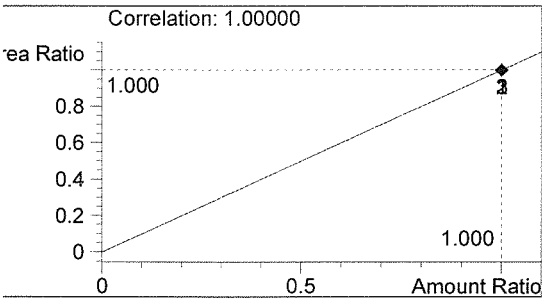


#	Compound	Area	RT
1	ETHANOL	1053	1.088
2	n-PROPANOL	1849	1.855

Totals:



ETHANOL 0.129 g/100mL

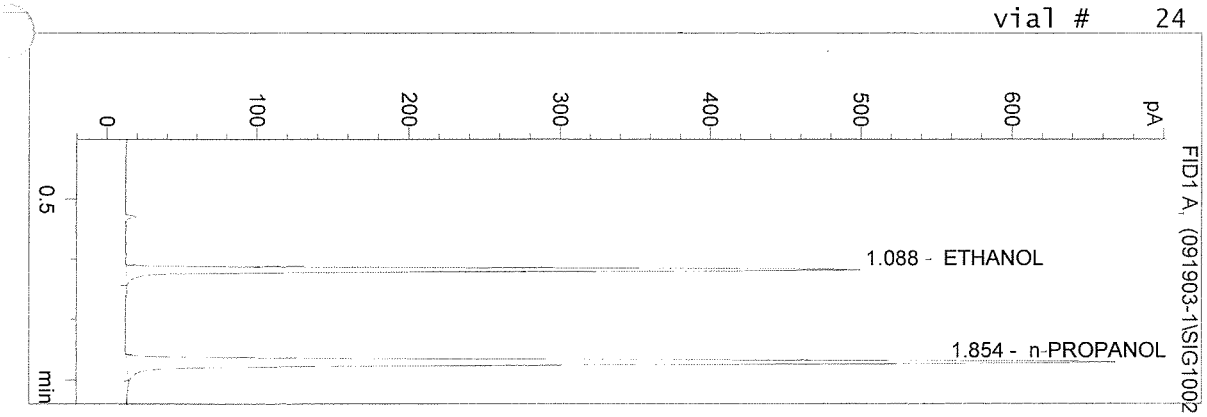


n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

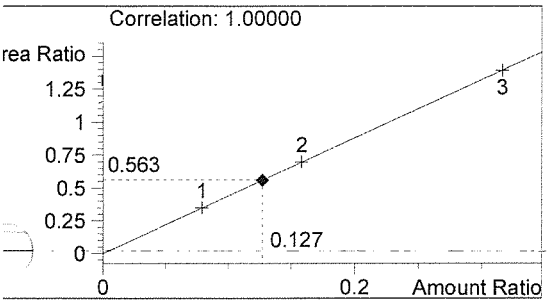
:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:36:25 AM
nstrument 3

03032QA
MARY WILSON

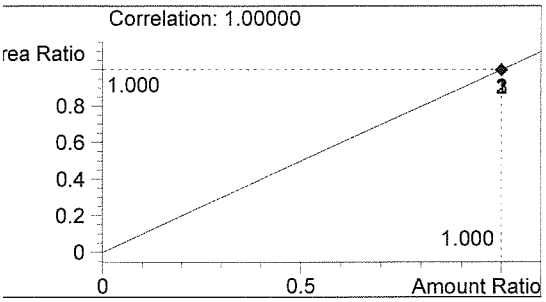


#	Compound	Area	RT
1	ETHANOL	1057	1.088
2	n-PROPANOL	1877	1.854

Totals:



ETHANOL 0.127 g/100mL

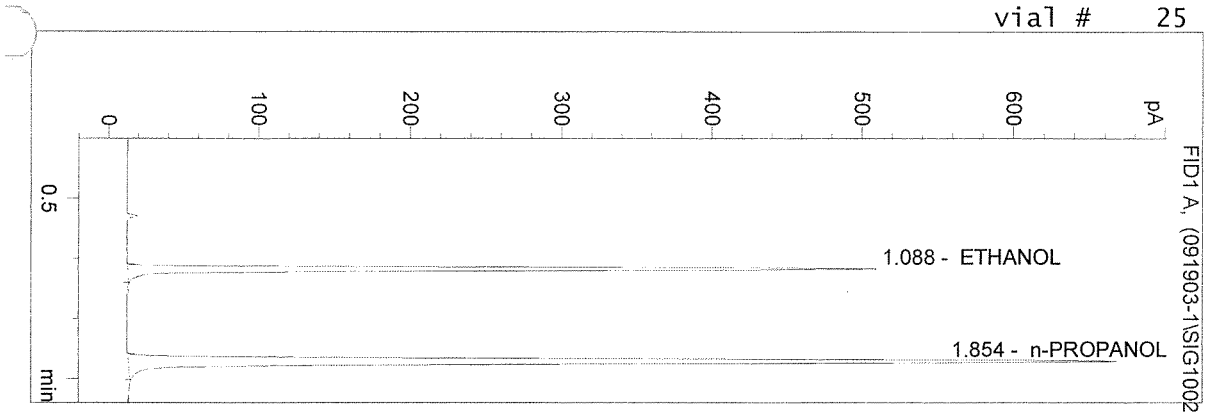


n-PROPANOL 1.000 g/100mL

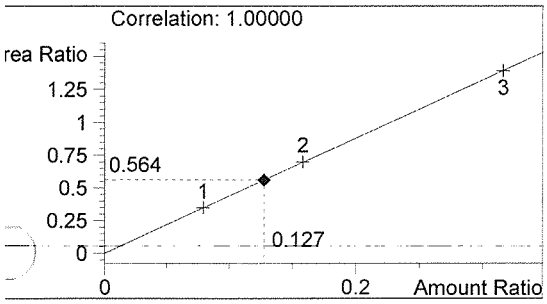
WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:39:45 AM
nstrument 3

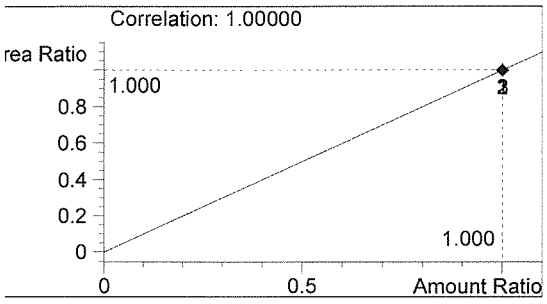
03032QA
MARY WILSON



#	Compound	Area	RT
1	ETHANOL	1050	1.088
2	n-PROPANOL	1863	1.854
Totals:			



ETHANOL 0.127 g/100mL



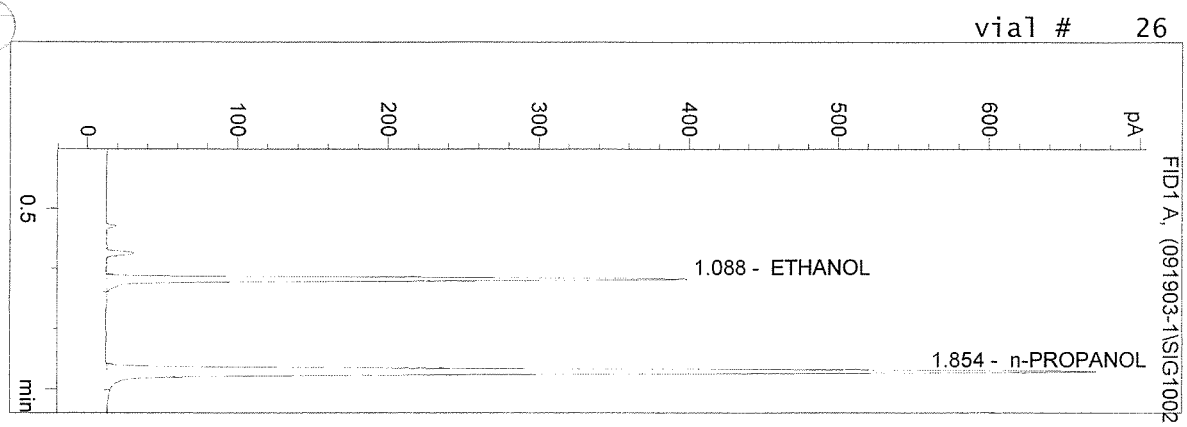
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:42:49 AM
nstrument 3

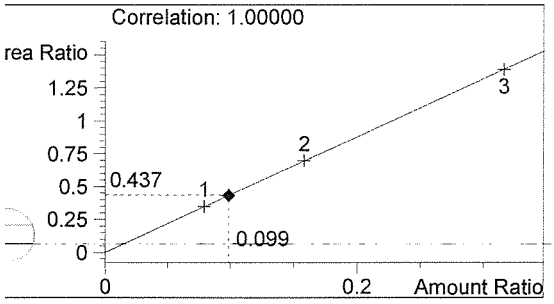
0.10CTL
MARY WILSON

vial # 26

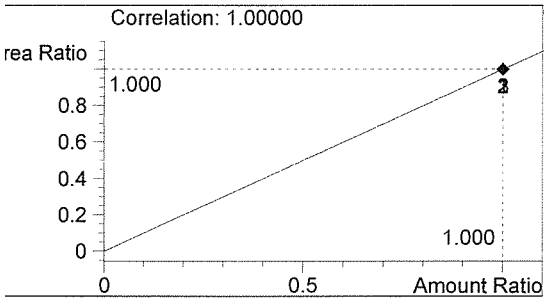


#	Compound	Area	RT
1	ETHANOL	818	1.088
2	n-PROPANOL	1875	1.854

Totals:



ETHANOL 0.099 g/100mL



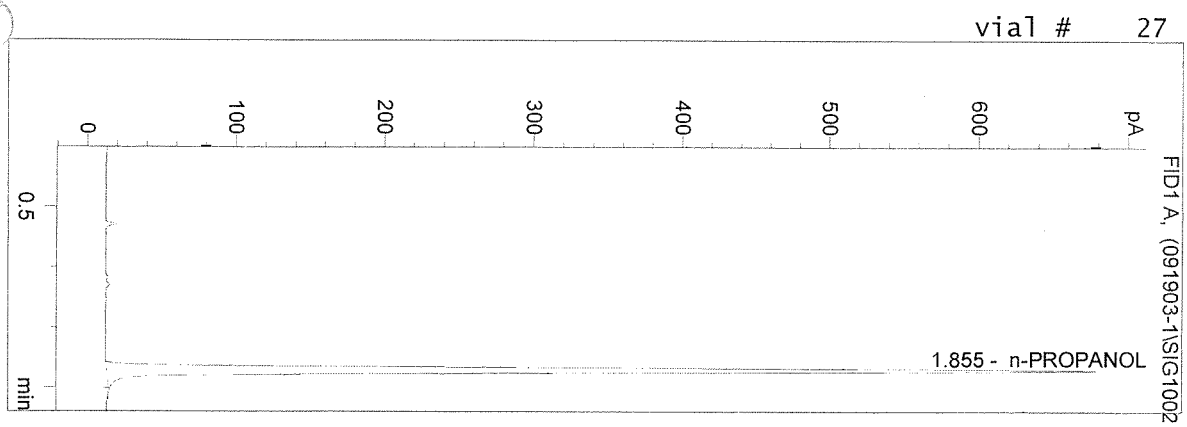
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO3.M
/19/03 10:45:53 AM
nstrument 3

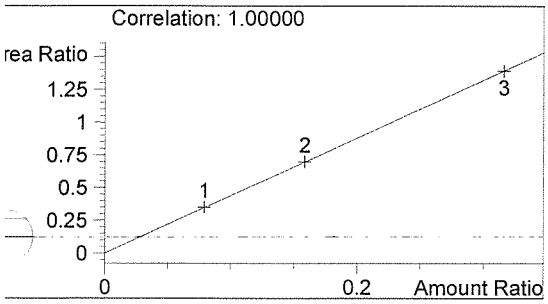
BLANK
MARY WILSON

vial # 27

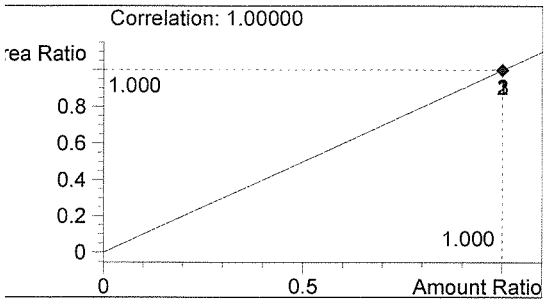


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1909	1.855

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL