WASHINGTON STATE PATROL - TOXICOLOGY LABORATORY DIVISION
2203 Airport Way S, Suite 360 SEATTLE, WA 98134

AN ASCLD/LAB-International ACCREDITED LABORATORY
SINCE 11/16/2009

QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 11046

CUSTOMER INFORMATION
Washington State Patrol – Breath Test Program
811 East Roanoke SEATTLE, WA 98102

TESTING PROCEDURE USED: TLD Technical Manual, Chapter 4.0 Certification of Simulator Solutions; Headspace-Gas Chromatography.

TESTING ITEM INFORMATION
TARGET VAPOR CONCENTRATION: 0.04 g/210L
DATE PREPARED: 10/31/2011
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Rebecca Flaherty

	RF	BP	DC
1	0.050	0.050	0.050
2	0.051	0.051	0.050
3	0.050	0.050	0.051
4	0.050	0.051	0.050
5	0.050	0.050	0.050
C	0.102	0.102	0.103

ETHANOL CONTROL INFORMATION
LOT NUMBER: A075806 EXPIRATION: 11/2014 CONCENTRATION: 0.10 g/100mL

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.0503 g/100mL
STANDARD DEVIATION: 0.00046
PRECISION CV (%): 0.91
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0409 g/210L**
COMBINED STANDARD UNCERTAINTY: ± 0.0005 (k=1, 68% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Melissa Pemberton FS-5
Melissa Pemberton Forensic Scientist Supervisor

11-18-2011
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
RF	Rebecca Flaherty		10/31/2011
BP	Brianna Peterson	Brianna Peterson	11/02/2011
DC	Dawn Cox		11/02/2011

This report applies only to the item being tested and shall not be reproduced except in full, without the written approval of the WSP Toxicology Laboratory Division.

Washington State Patrol - Toxicology Laboratory Division
QAP Test Report Calculation Record

QAP Solution Batch #: 11046 **Date Prepared:** 10/31/2011

Analyst:	RF	BP	DC
Date Tested:	10/31/2011	11/2/2011	11/2/2011
Instrument:	HS#1	HS#1	HS#1
1	0.050	0.050	0.050
2	0.051	0.051	0.050
3	0.050	0.050	0.051
4	0.050	0.051	0.050
5	0.050	0.050	0.050
C	0.102	0.102	0.103

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000055282	0.0000106102	0.0001016326

Ethanol Control Lot #: A075806
Control Uncertainty (%): 0.29

Average Solution Concentration: 0.0503 g/100mL
Standard Deviation: 0.00046 g/100mL
Precision CV (%): 0.91
Equivalent Vapor Concentration: 0.0409 g/210L
Combined Standard Uncertainty (±): 0.0005 g/210L

Calculations performed by: Melissa L. Pemberton [signature] 11-7-11
Name Signature Date

Calculations verified by: Jason Skleerov [signature] 11-16-11
Name Signature Date

Method: Hand Calculator

Tech. review performed by: [signature] 11-10-11 [signature] Melissa Pemberton 11-10-11
Name Signature Date

Washington State Patrol Toxicology Laboratory Division

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: JASON SKLEROV **Date:** 11-16-11

Location: WSP-FLSB; SEATTLE, WA **Solution Batch Number:** 11046

	YES	NO	N/A
Analysis dates do not precede preparation date:	☒	☐	☐
Declarations signed and properly dated:	☒	☐	☐
Data entry corresponds to all chromatograms:	☒	☐	☐
All signatures present on Test Report:	☒	☐	☐
Average solution concentration correct:	☒	☐	☐
Standard deviation correct:	☒	☐	☐
CV (%) correct:	☒	☐	☐
Equivalent vapor concentration correct:	☒	☐	☐
All chromatograms and sequences included in file:	☒	☐	☐
Ethanol control information present: (lot # present & used within expiration)	☒	☐	☐
Complies with accuracy and precision requirements established by the State Toxicologist:	☒	☐	☐

Comments:

Reviewer Signature: (SKLEROV) **Date:** 11-16-11

Reviewer Signature: N/A 11-16-11 **Date:**

Washington State Patrol Toxicology Laboratory Division

SOLUTION CERTIFICATE REVIEW

Please check that the data on your chromatograms is the data entered into the Test Report, that the date to the right of your name is the date that you tested the solution, and then sign the Test Report.

Please initial and date below to affirm that you have:

1) Checked your data
2) Checked the date to the right of your name on the Test Report
3) Signed the Test Report

	Initials	Date
Amanda Black		
Asa Louis		
Brian Capron		
Brianna Peterson	BP	11/7/11
Brianne O'Reilly		
Brittany Ball		
Christie Mitchell		
Christopher Johnston		
Dawn Cox	DC	11.7.11
Justin Knoy		
Lisa Noble		
Melissa Pemberton		
Naziha Nuwayhid		
Rebecca Flaherty	RF	11/7/11
Sarah Swenson		

Batch # 111046

CHRISTINE O. GREGOIRE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER 0.04 QAP SOLUTION CERTIFICATION FOR LOT 11046

I, Rebecca Flaherty, 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 DataMaster breath test instrument.

I possess the following qualifications: BS degrees in Biochemistry and Psychobiology and MS degree in Forensic Science.

The qap solution, Lot Number 11046, was prepared in the Washington State Toxicology Laboratory on 10/31/2011. 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 shall not be used to perform a quality assurance procedure after 10/31/2012.

Seattle, WA

11/7/11

Rebecca Flaherty — Date

Forensic Toxicologist

CHRISTINE O. GREGOIRE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
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DATAMASTER 0.04 QAP SOLUTION CERTIFICATION FOR LOT 11046

I, Brianna Peterson, 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 DataMaster breath test instrument.

I possess the following qualifications: BS degree in Chemistry, MS degree in Forensic Science, Ph.D. degree in Toxicology, and five years of experience in forensic toxicology.

The qap solution, Lot Number 11046, was prepared in the Washington State Toxicology Laboratory on 10/31/2011. 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 shall not be used to perform a quality assurance procedure after 10/31/2012.

Seattle, WA

Brianna Peterson 11/7/11

Brianna Peterson Date

Forensic Toxicologist

CHRISTINE O. GREGOIRE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER 0.04 QAP SOLUTION CERTIFICATION FOR LOT 11046

I, Dawn Cox, 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 DataMaster breath test instrument.

I possess the following qualifications: BS in Forensic Chemistry.

The qap solution, Lot Number 11046, was prepared in the Washington State Toxicology Laboratory on 10/31/2011. 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 shall not be used to perform a quality assurance procedure after 10/31/2012.

Seattle, WA

Dawn Cox 11.7.11

Dawn Cox Date

Forensic Toxicologist

Sequence Parameters:

Operator:	Rebecca Flaherty
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Counter:	0001
Signal 2 Prefix:	SIG2
Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	111031RF
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
Ethanol Calibrator 1, E0911-01 - Exp. 12/05/11
Ethanol Calibrator 2, E0911-02 - Exp. 12/05/11
Ethanol Calibrator 3, E0911-03 - Exp. 12/05/11

0.04 Control - Lot #A075264 - Exp. 10/2014
0.10 Control - Lot #A075806 - Exp. 11/2014
0.20 Control - Lot #A076521 - Exp. 12/2014

RF

Sequence Table (Front Injector):

Sample Information Part:

Line	Location	Sample Information
1	Vial 1	
2	Vial 2	E0911-01
3	Vial 3	E0911-02
4	Vial 4	E0911-03
5	Vial 5	
6	Vial 6	
7	Vial 7	
8	Vial 8	
9	Vial 9	
10	Vial 10	
11	Vial 11	
12	Vial 12	
13	Vial 13	
14	Vial 14	

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Line	Location	Sample Information
15	Vial 15	
16	Vial 16	
17	Vial 17	
18	Vial 18	
19	Vial 19	
20	Vial 20	
21	Vial 21	
22	Vial 22	
23	Vial 23	
24	Vial 24	
25	Vial 25	
26	Vial 26	
27	Vial 27	
28	Vial 28	
29	Vial 29	
30	Vial 30	
31	Vial 31	
32	Vial 32	
33	Vial 33	
34	Vial 34	
35	Vial 35	
36	Vial 36	
37	Vial 37	

RF

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	SIMALC1	1	Sample		
2	Vial 2	0.079 CAL 1	SIMALC1	1	Calib		
3	Vial 3	0.158 CAL 2	SIMALC1	1	Calib		
4	Vial 4	0.316 CAL 3	SIMALC1	1	Calib		
5	Vial 5	NEG CONTROL-RF	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CONTROL-RF	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CONTROL-RF	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CONTROL-RF	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CONTROL-RF	SIMALC1	1	Ctrl Samp		
10	Vial 10	QAP0.04 11046 #1	SIMALC1	1	Sample		
11	Vial 11	QAP0.04 11046 #2	SIMALC1	1	Sample		
12	Vial 12	QAP0.04 11046 #3	SIMALC1	1	Sample		
13	Vial 13	QAP0.04 11046 #4	SIMALC1	1	Sample		

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Sequence: C:\HPCHEM\1\SEQUENCE\RFQAP.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
14	Vial 14	QAP0.04 11046 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CONTROL-RF	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CONTROL-RF	SIMALC1	1	Ctrl Samp		
17	Vial 17	QAP0.08 11047 #1	SIMALC1	1	Sample		
18	Vial 18	QAP0.08 11047 #2	SIMALC1	1	Sample		
19	Vial 19	QAP0.08 11047 #3	SIMALC1	1	Sample		
20	Vial 20	QAP0.08 11047 #4	SIMALC1	1	Sample		
21	Vial 21	QAP0.08 11047 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CONTROL-RF	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CONTROL-RF	SIMALC1	1	Ctrl Samp		
24	Vial 24	QAP0.10 11048 #1	SIMALC1	1	Sample		
25	Vial 25	QAP0.10 11048 #2	SIMALC1	1	Sample		
26	Vial 26	QAP0.10 11048 #3	SIMALC1	1	Sample		
27	Vial 27	QAP0.10 11048 #4	SIMALC1	1	Sample		
28	Vial 28	QAP0.10 11048 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CONTROL-RF	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CONTROL-RF	SIMALC1	1	Ctrl Samp		
31	Vial 31	QAP0.15 11049 #1	SIMALC1	1	Sample		
32	Vial 32	QAP0.15 11049 #2	SIMALC1	1	Sample		
33	Vial 33	QAP0.15 11049 #3	SIMALC1	1	Sample		
34	Vial 34	QAP0.15 11049 #4	SIMALC1	1	Sample		
35	Vial 35	QAP0.15 11049 #5	SIMALC1	1	Sample		
36	Vial 36	0.10 CONTROL-RF	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CONTROL-RF	SIMALC1	1	Ctrl Samp		

RK

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	0.079 CAL 1	SIMALC1	1	Replace	Replace	
3	Vial 3	0.158 CAL 2	SIMALC1	2	Replace	Replace	
4	Vial 4	0.316 CAL 3	SIMALC1	3	Replace	Replace	

Sequence Table (Back Injector):

No entries - empty table!

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Calibration Table

Calib. Data Modified : Monday, October 31, 2011 1:10:00 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

RK

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

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

ISTD #	ISTD Amount [g/100mL]	Name
1	1.00000	n-Propanol

Signal 1: FID1 A,

RetTime [min]	Sig	Lvl	Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.045	1	1	8.12800e-2	949.70703	8.55843e-5	1		Ethanol
		2	1.60090e-1	1879.89380	8.51591e-5			
		3	3.22750e-1	3775.40625	8.54875e-5			
1.710	1	1	1.00000	2544.13599	3.93061e-4	I1		n-Propanol
		2	1.00000	2558.63428	3.90834e-4			
		3	1.00000	2590.90942	3.85965e-4			

Peak Sum Table

No Entries in table

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Calibration Curves

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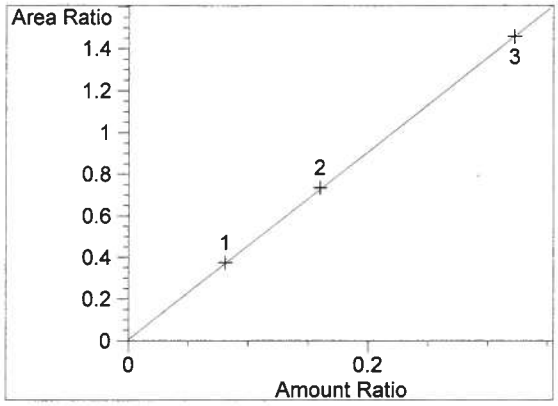
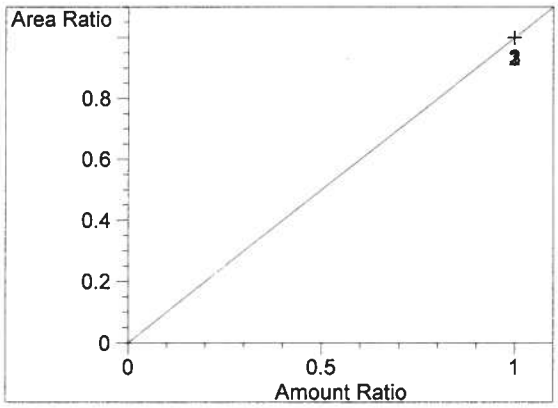


Ethanol at exp. RT: 1.045
FID1 A,
Correlation: 0.99996
Residual Std. Dev.: 0.00703
Formula: y = mx + b
m: 4.51223
b: 4.93883e-3
x: Amount Ratio
y: Area Ratio

RF



n-Propanol at exp. RT: 1.710
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

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11046

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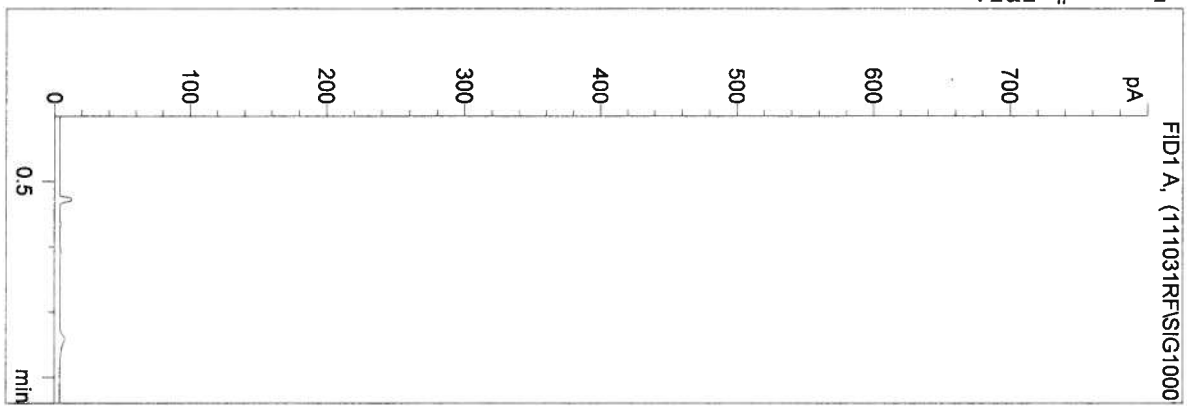
WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\SIMALC1.M
10/31/2011 12:58:33 PM
Instrument 1
DB-ALC1

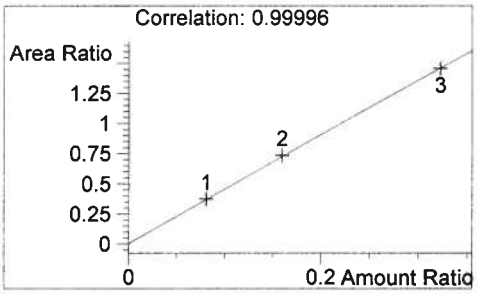
BLANK
Rebecca Flaherty

vial # 1

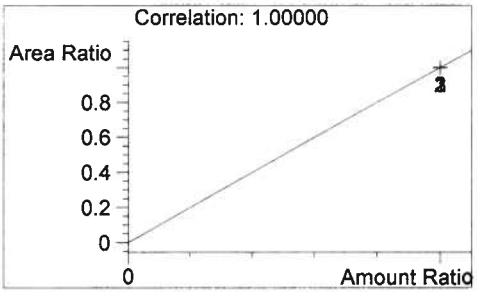


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	0	0.000
Tot			

RK



Ethanol 0.000 g/100 mL



n-Propanol 0.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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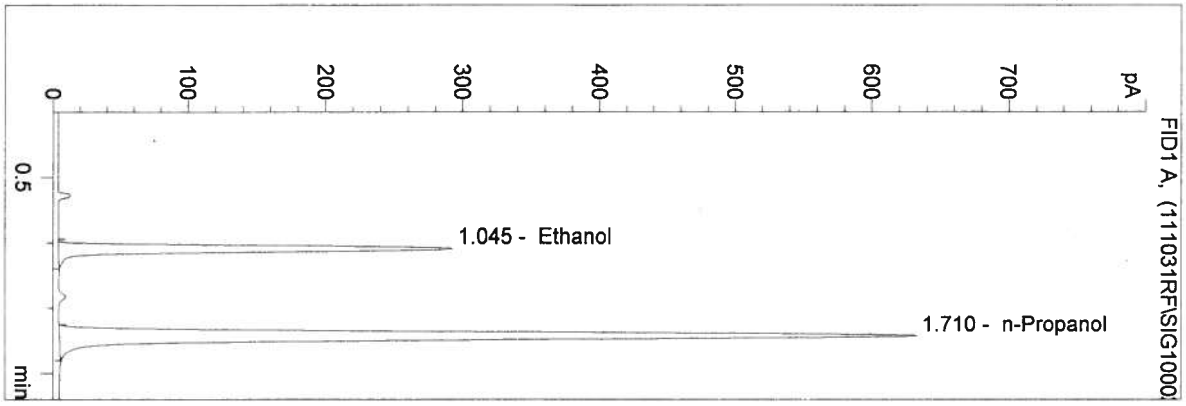
10/31/2011 1:01:37 PM
Instrument 1
DB-ALC1

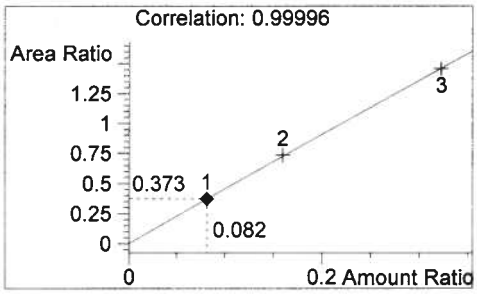
0.079 CAL 1
Rebecca Flaherty

vial # 2

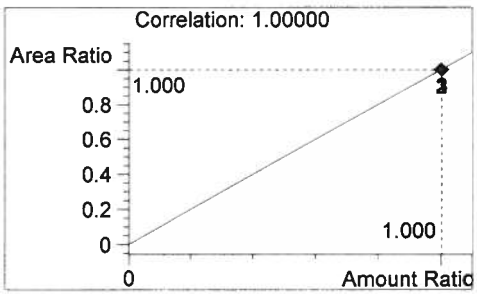


#	Compound	Area	RT
1	Ethanol	950	1.045
2	n-Propanol	2544	1.710
Tot			

RX



Ethanol 0.082 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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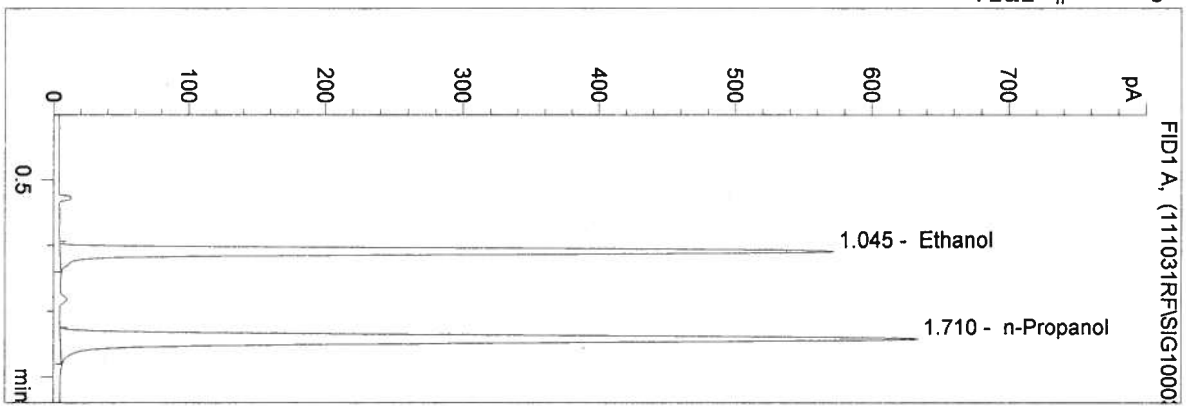
10/31/2011 1:04:42 PM
Instrument 1
DB-ALC1

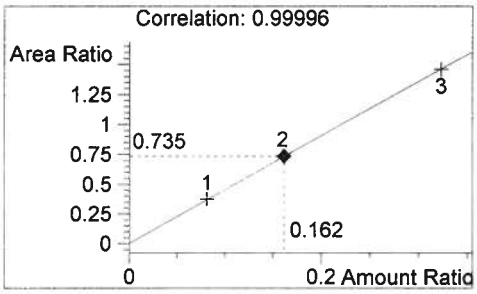
0.158 CAL 2
Rebecca Flaherty

vial # 3

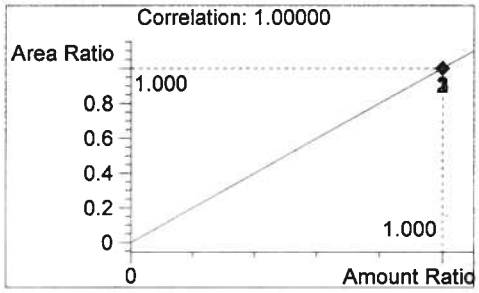


#	Compound	Area	RT
1	Ethanol	1880	1.045
2	n-Propanol	2559	1.710
Tot			

RF



Ethanol 0.162 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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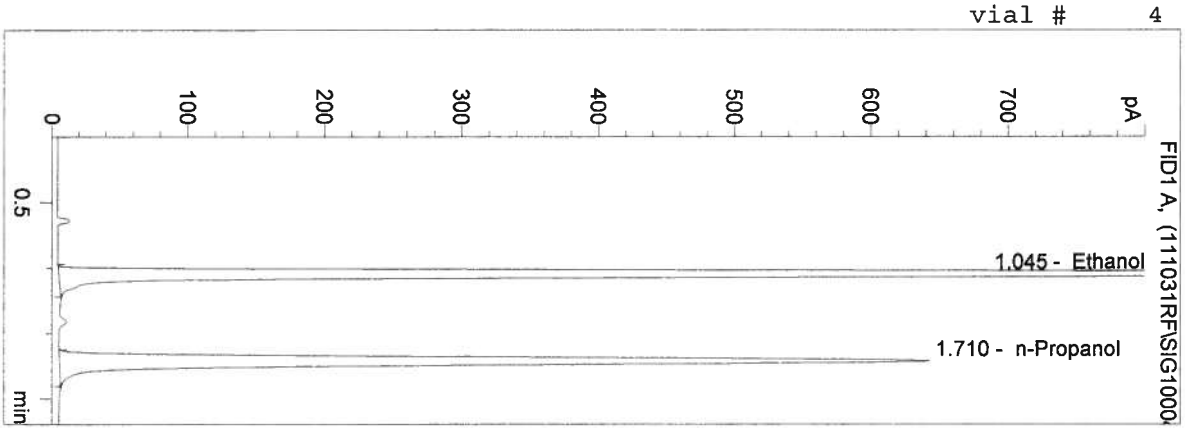
Instrument 1
DB-ALC1

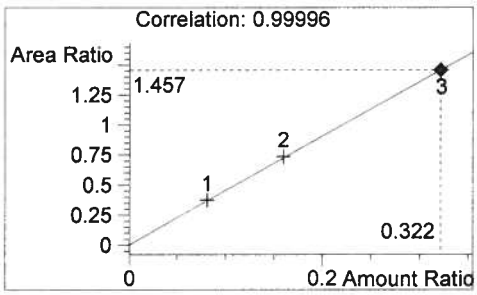
0.316 CAL 3
Rebecca Flaherty

vial # 4

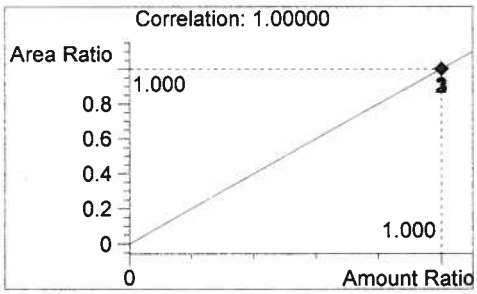


#	Compound	Area	RT
1	Ethanol	3775	1.045
2	n-Propanol	2591	1.710
Tot			

RF



Ethanol 0.322 g/100 mL



n-Propanol 1.000 g/100 mL

11046
11047
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WASHINGTON STATE TOXICOLOGY LABORATORY

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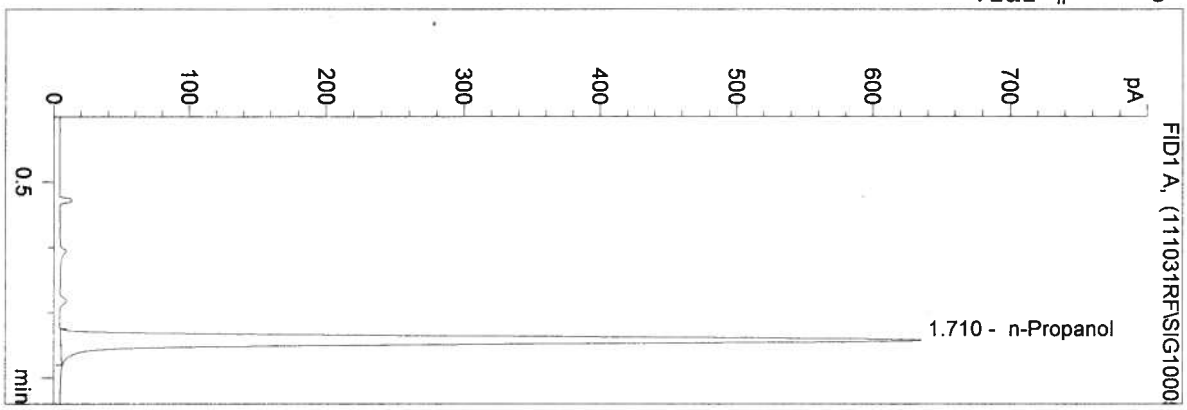
10/31/2011 1:10:51 PM
Instrument 1
DB-ALC1

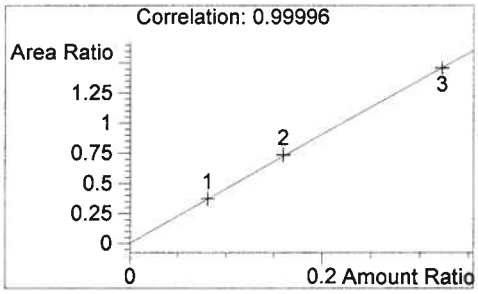
NEG CONTROL-RF
Rebecca Flaherty

vial # 5

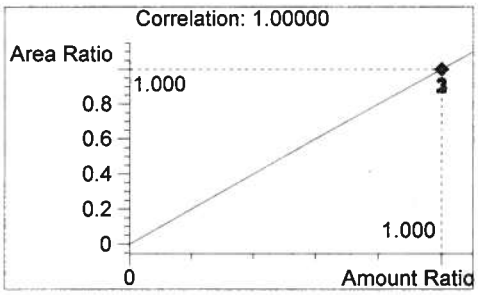


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2565	1.710
Tot			

RF



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11046
11047
11049

WASHINGTON STATE TOXICOLOGY LABORATORY

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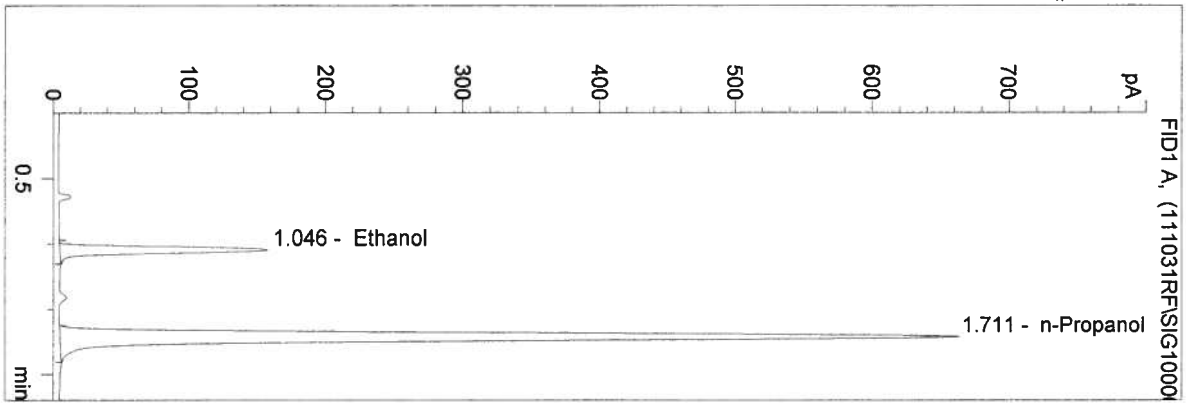
10/31/2011 1:13:56 PM
Instrument 1
DB-ALC1

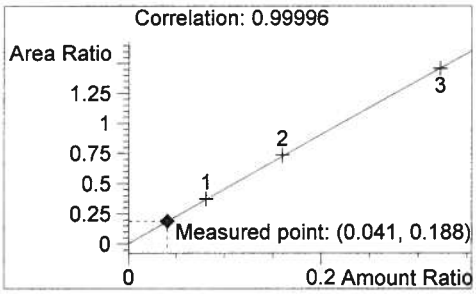
0.04 CONTROL-RF
Rebecca Flaherty

vial # 6

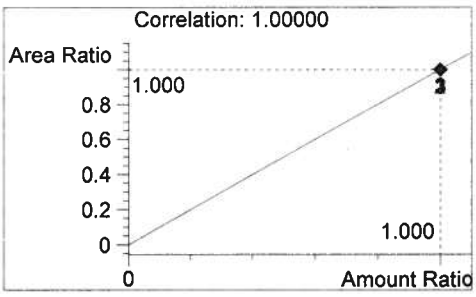


#	Compound	Area	RT
1	Ethanol	504	1.046
2	n-Propanol	2678	1.711
Tot			

RF



Ethanol 0.041 g/100 mL



n-Propanol 1.000 g/100 mL

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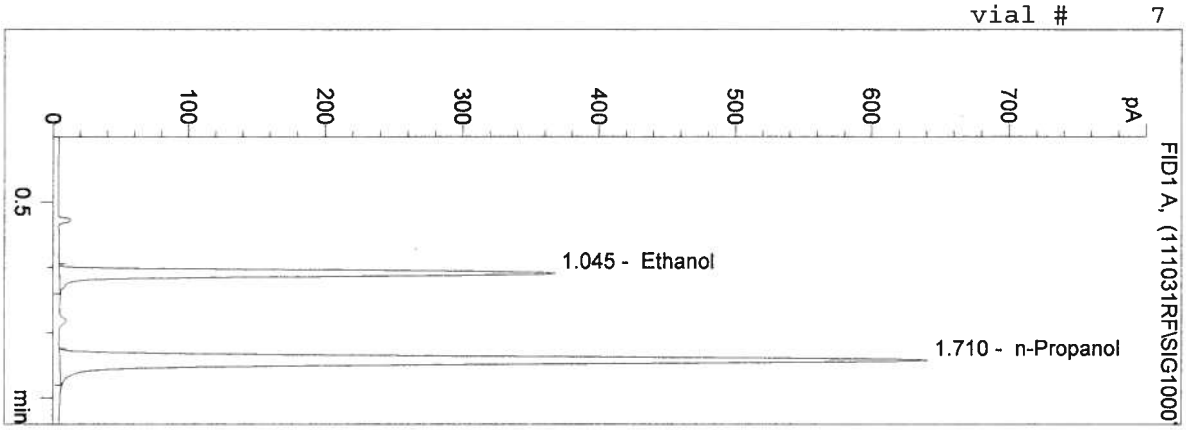
WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\SIMALC1.M
10/31/2011 1:17:01 PM
Instrument 1
DB-ALC1

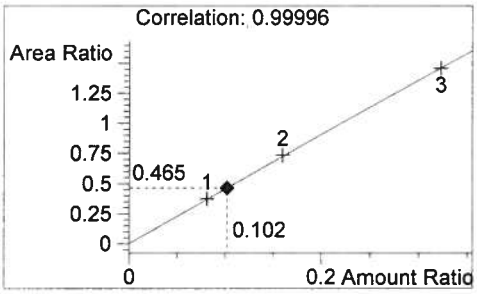
0.10 CONTROL-RF
Rebecca Flaherty

vial # 7

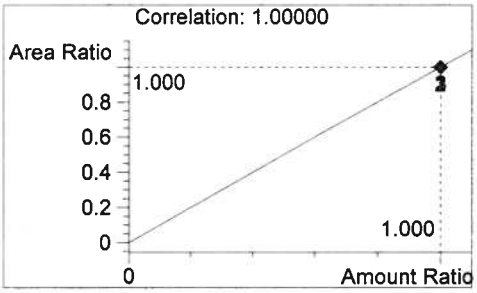


#	Compound	Area	RT
1	Ethanol	1204	1.045
2	n-Propanol	2590	1.710
Tot			

RF



Ethanol 0.102 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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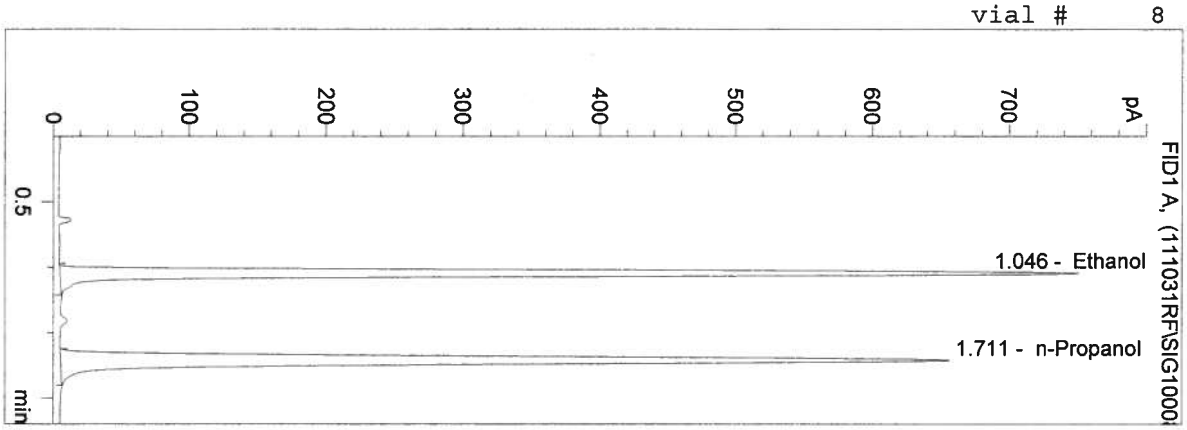
10/31/2011 1:20:05 PM
Instrument 1
DB-ALC1

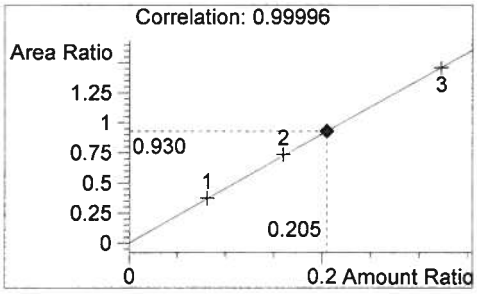
0.20 CONTROL-RF
Rebecca Flaherty

vial # 8

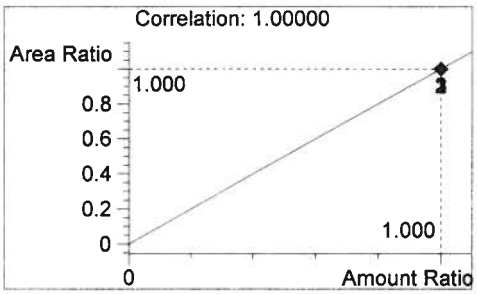


#	Compound	Area	RT
1	Ethanol	2466	1.046
2	n-Propanol	2652	1.711
Tot			

RF



Ethanol 0.205 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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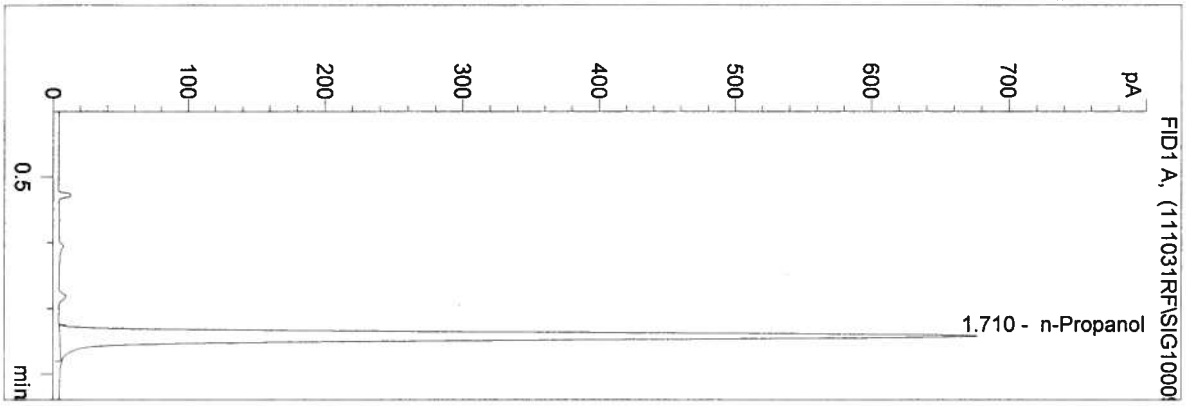
10/31/2011 1:23:10 PM
Instrument 1
DB-ALC1

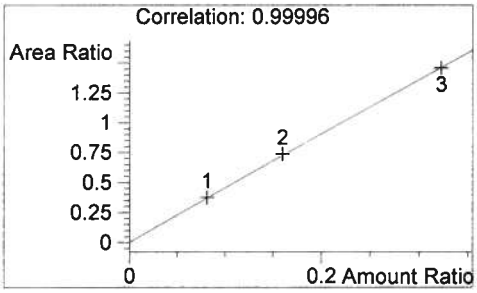
NEG CONTROL-RF
Rebecca Flaherty

vial # 9

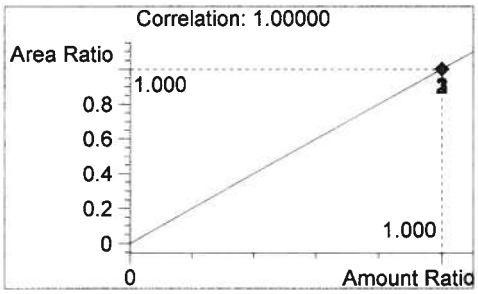


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2735	1.710
Tot			

RF



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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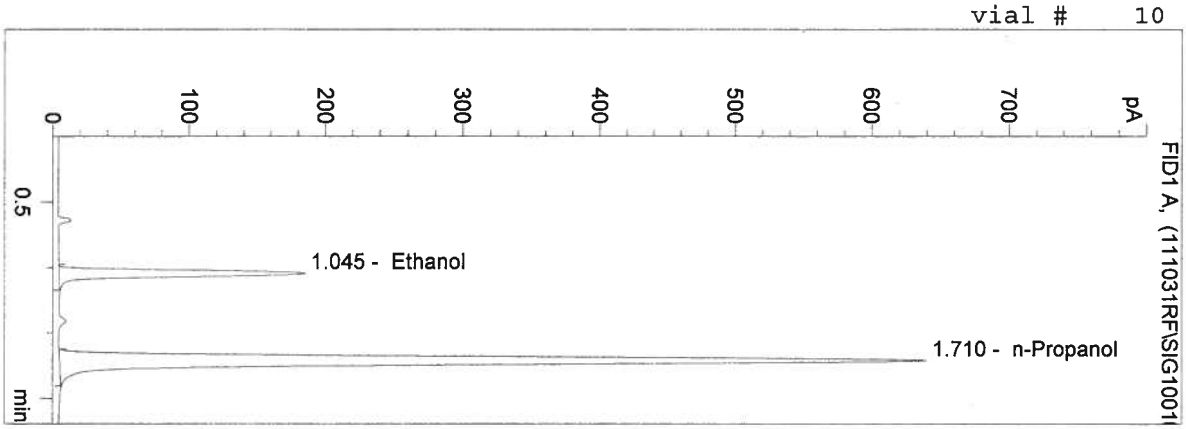
10/31/2011 1:26:15 PM
Instrument 1
DB-ALC1

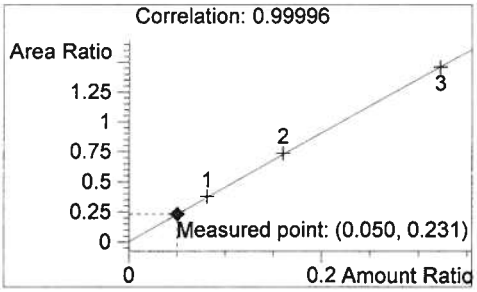
QAP0.04 11046 #1
Rebecca Flaherty

vial # 10

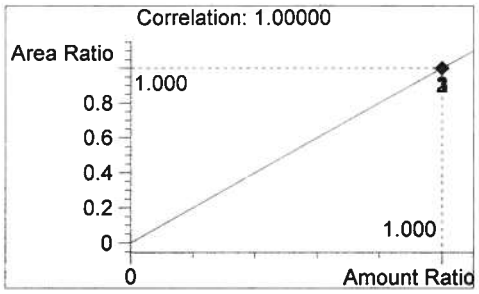


#	Compound	Area	RT
1	Ethanol	597	1.045
2	n-Propanol	2584	1.710
Tot			

RF



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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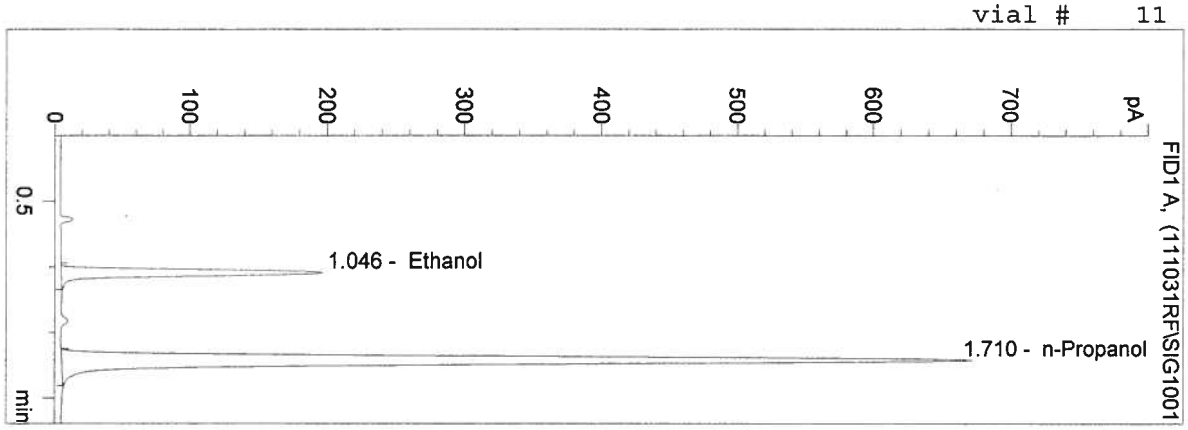
10/31/2011 1:29:19 PM
Instrument 1
DB-ALC1

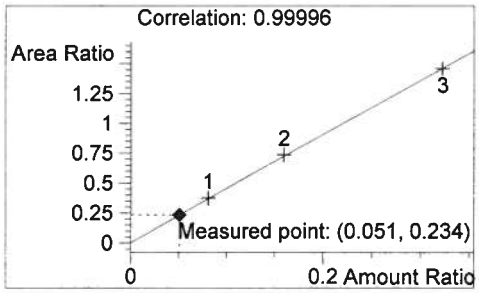
QAP0.04 11046 #2
Rebecca Flaherty

vial # 11

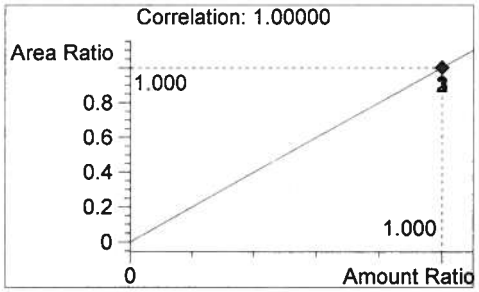


#	Compound	Area	RT
1	Ethanol	636	1.046
2	n-Propanol	2718	1.710
Tot			

RF



Ethanol 0.051 g/100 mL



n-Propanol 1.000 g/100 mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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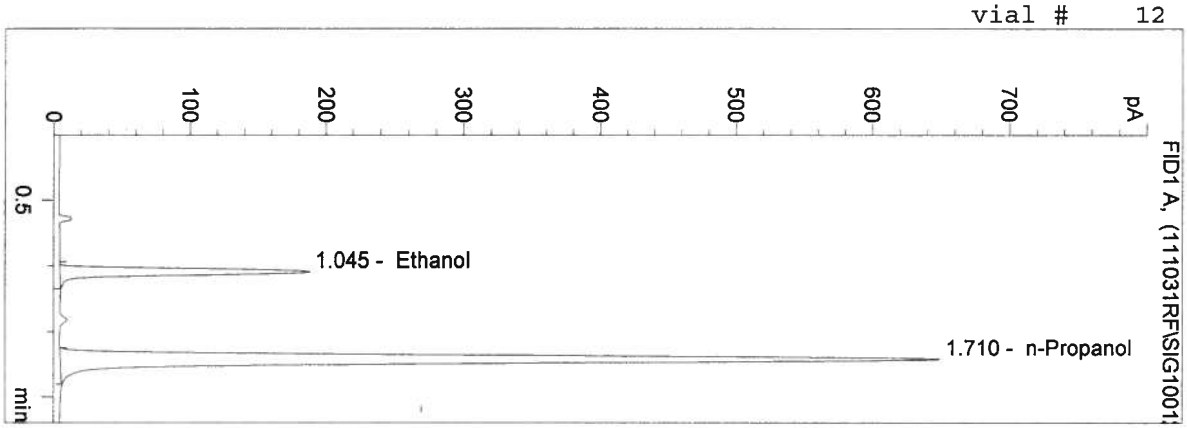
Instrument 1
DB-ALC1

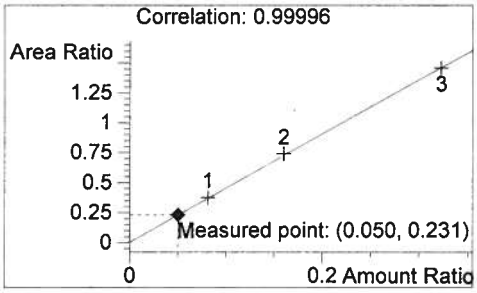
QAP0.04 11046 #3
Rebecca Flaherty

vial # 12

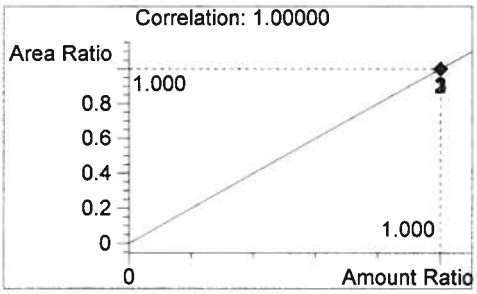


#	Compound	Area	RT
1	Ethanol	606	1.045
2	n-Propanol	2621	1.710
Tot			

RF



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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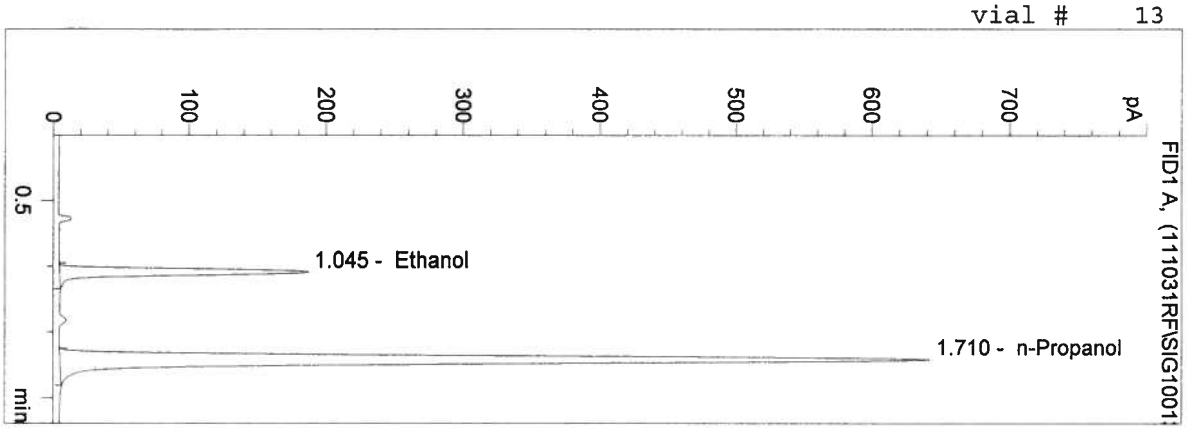
10/31/2011 1:35:29 PM
Instrument 1
DB-ALC1

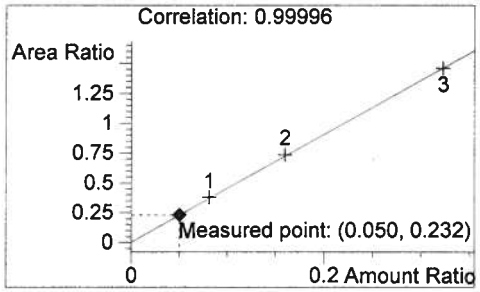
QAP0.04 11046 #4
Rebecca Flaherty

vial # 13

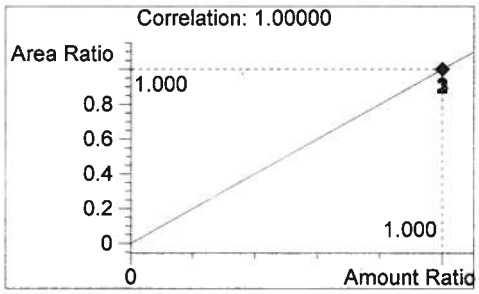


#	Compound	Area	RT
1	Ethanol	602	1.045
2	n-Propanol	2593	1.710
Tot			

RF



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

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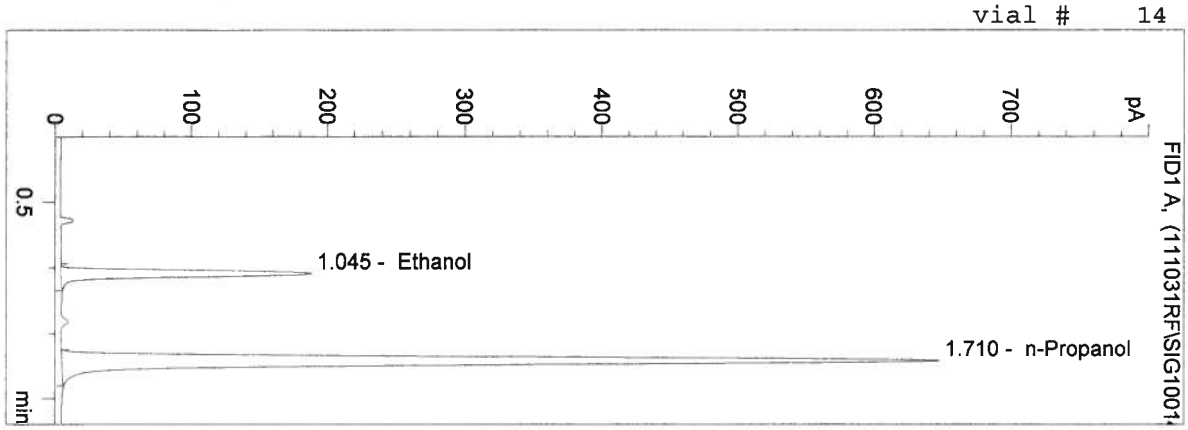
10/31/2011 1:38:34 PM
Instrument 1
DB-ALC1

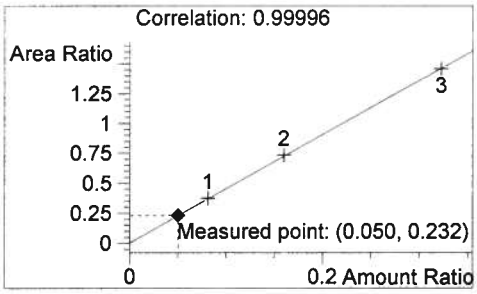
QAP0.04 11046 #5
Rebecca Flaherty

vial # 14

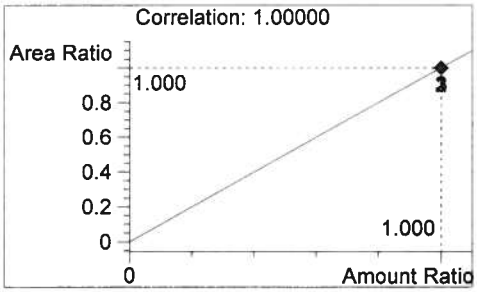


#	Compound	Area	RT
1	Ethanol	606	1.045
2	n-Propanol	2614	1.710
Tot			

RF



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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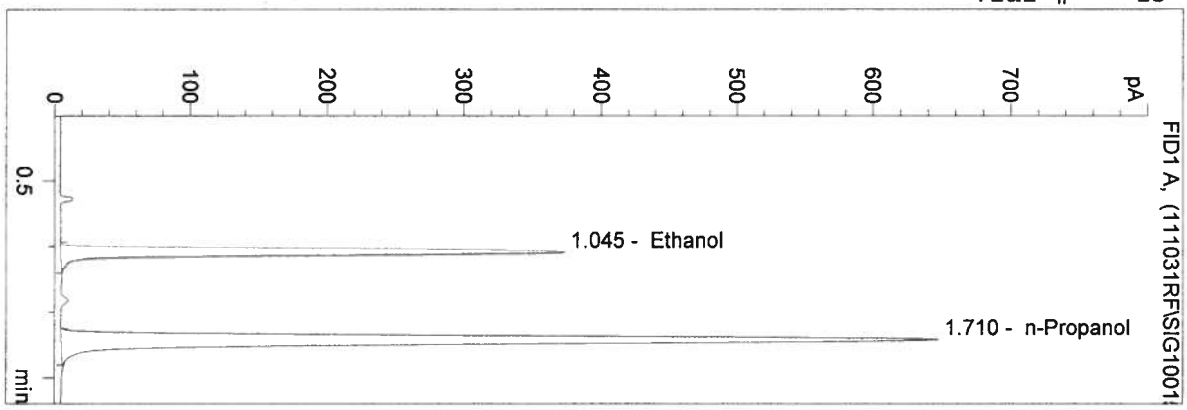
10/31/2011 1:41:38 PM
Instrument 1
DB-ALC1

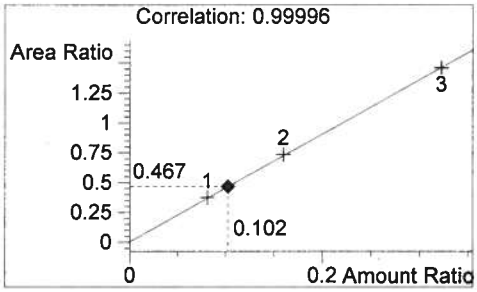
0.10 CONTROL-RF
Rebecca Flaherty

vial # 15

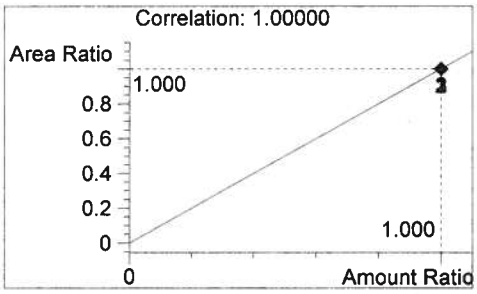


#	Compound	Area	RT
1	Ethanol	1222	1.045
2	n-Propanol	2616	1.710
Tot			

RF



Ethanol 0.102 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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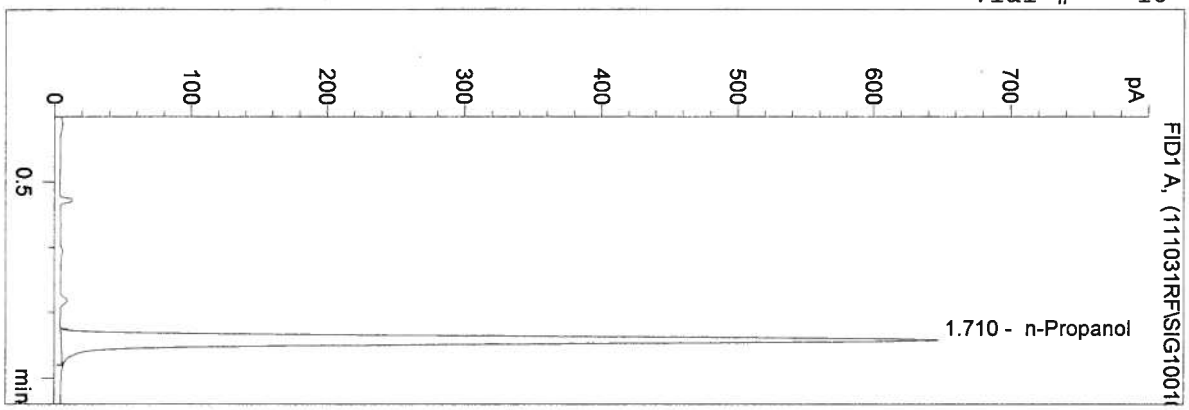
10/31/2011 1:44:43 PM
Instrument 1
DB-ALC1

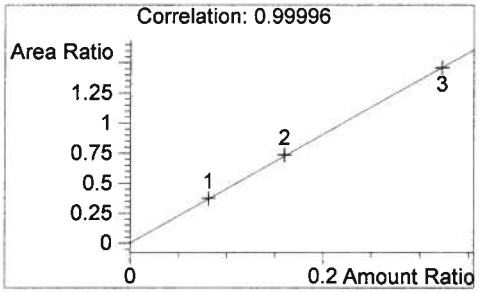
NEG CONTROL-RF
Rebecca Flaherty

vial # 16

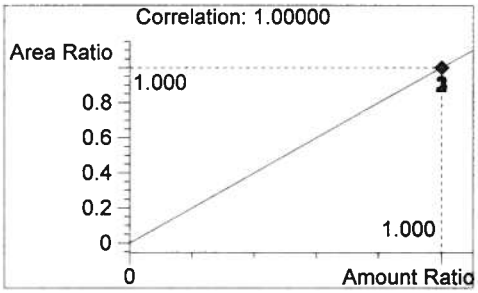


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2616	1.710
Tot			

RF



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11046

Sequence Parameters:

Operator:	Brianna Peterson
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Counter:	0001
Signal 2 Prefix:	SIG2
Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	111102BP
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
0.04 control Lot#A075264 - exp 10/2014
0.10 control Lot#A075806 - exp 11/2014
0.20 control Lot#A076521 - exp 12/2014

Sequence Table (Front Injector):

Sample Information Part:

Line	Location	Sample Information
1	Vial 1	
2	Vial 2	E0911-01
3	Vial 3	E0911-02
4	Vial 4	E0911-03
5	Vial 5	
6	Vial 6	
7	Vial 7	
8	Vial 8	
9	Vial 9	
10	Vial 10	
11	Vial 11	
12	Vial 12	
13	Vial 13	
14	Vial 14	
15	Vial 15	
16	Vial 16	

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BP

Line	Location	Sample Information
17	Vial 17	
18	Vial 18	
19	Vial 19	
20	Vial 20	
21	Vial 21	
22	Vial 22	
23	Vial 23	
24	Vial 24	
25	Vial 25	
26	Vial 26	
27	Vial 27	
28	Vial 28	
29	Vial 29	
30	Vial 30	
31	Vial 31	
32	Vial 32	
33	Vial 33	
34	Vial 34	
35	Vial 35	
36	Vial 36	
37	Vial 37	

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	SIMALC1	1	Sample		
2	Vial 2	0.079 CAL 1	SIMALC1	1	Calib		
3	Vial 3	0.158 CAL 2	SIMALC1	1	Calib		
4	Vial 4	0.316 CAL 3	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL BP	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL BP	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
10	Vial 10	QA11046-1	SIMALC1	1	Sample		
11	Vial 11	QA11046-2	SIMALC1	1	Sample		
12	Vial 12	QA11046-3	SIMALC1	1	Sample		
13	Vial 13	QA11046-4	SIMALC1	1	Sample		
14	Vial 14	QA11046-5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
17	Vial 17	QA11047-1	SIMALC1	1	Sample		

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BP

Sequence: C:\HPCHEM\1\SEQUENCE\BPQA.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
18	Vial 18	QA11047-2	SIMALC1	1	Sample		
19	Vial 19	QA11047-3	SIMALC1	1	Sample		
20	Vial 20	QA11047-4	SIMALC1	1	Sample		
21	Vial 21	QA11047-5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
24	Vial 24	QA11048-1	SIMALC1	1	Sample		
25	Vial 25	QA11048-2	SIMALC1	1	Sample		
26	Vial 26	QA11048-3	SIMALC1	1	Sample		
27	Vial 27	QA11048-4	SIMALC1	1	Sample		
28	Vial 28	QA11048-5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
31	Vial 31	QA11049-1	SIMALC1	1	Sample		
32	Vial 32	QA11049-2	SIMALC1	1	Sample		
33	Vial 33	QA11049-3	SIMALC1	1	Sample		
34	Vial 34	QA11049-4	SIMALC1	1	Sample		
35	Vial 35	QA11049-5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL BP	SIMALC1	1	Ctrl Samp		

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	0.079 CAL 1	SIMALC1	1	Replace	Replace	
3	Vial 3	0.158 CAL 2	SIMALC1	2	Replace	Replace	
4	Vial 4	0.316 CAL 3	SIMALC1	3	Replace	Replace	

Sequence Table (Back Injector):

No entries - empty table!

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BP

Calibration Table

Calib. Data Modified : Wednesday, November 02, 2011 1:21:31 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

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

ISTD #	ISTD Amount [g/100mL]	Name
1	1.00000	n-Propanol

Signal 1: FID1 A,

RetTime [min]	Lvl Sig		Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.046	1	1	8.12800e-2	944.73718	8.60345e-5	1		Ethanol
		2	1.60090e-1	1908.86853	8.38664e-5			
		3	3.22750e-1	3750.83569	8.60475e-5			
1.710	1	1	1.00000	2523.07227	3.96342e-4	I1		n-Propanol
		2	1.00000	2569.61011	3.89164e-4			
		3	1.00000	2555.46826	3.91318e-4			

Peak Sum Table

No Entries in table

11046
11047
11049

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Calibration Curves

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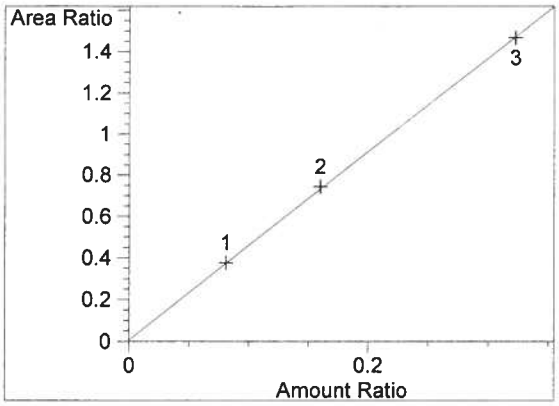
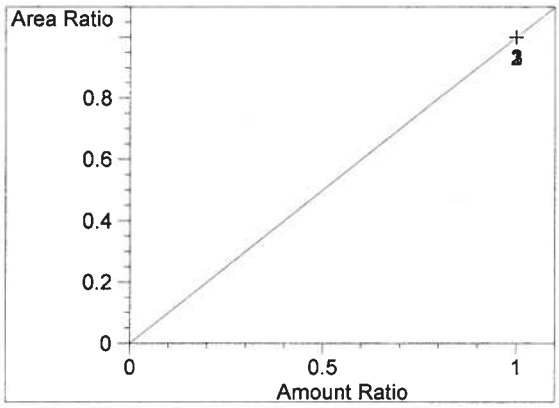


Ethanol at exp. RT: 1.046
FID1 A,
Correlation: 0.99994
Residual Std. Dev.: 0.00856
Formula: y = mx + b
m: 4.54762
b: 4.91731e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.710
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

11046
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WASHINGTON STATE TOXICOLOGY LABORATORY

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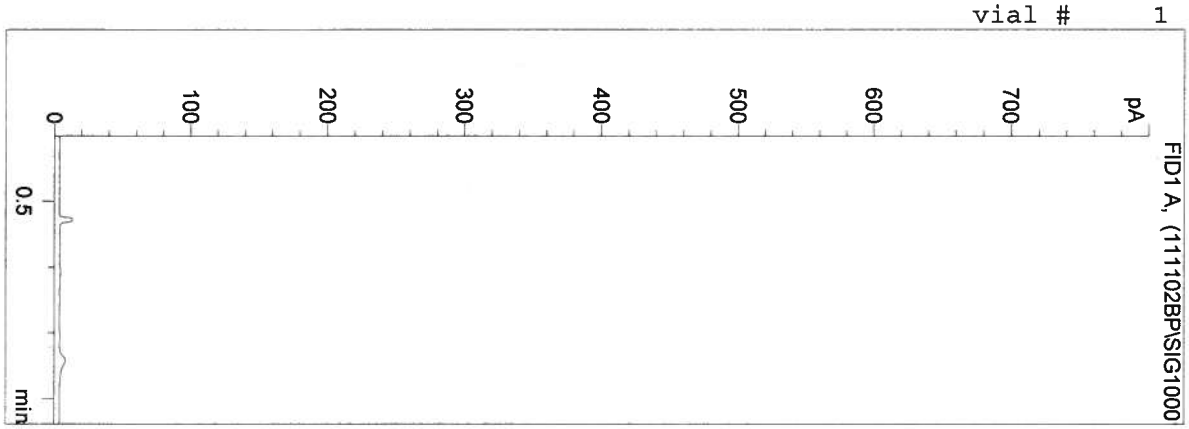
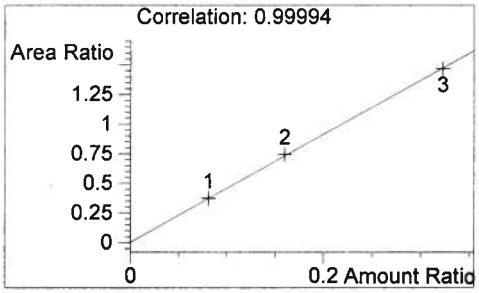
Instrument 1
DB-ALC1

BLANK
Brianna Peterson

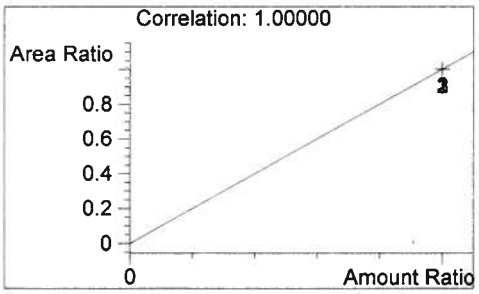
vial # 1



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



Ethanol 0.000 g/100 mL



n-Propanol 0.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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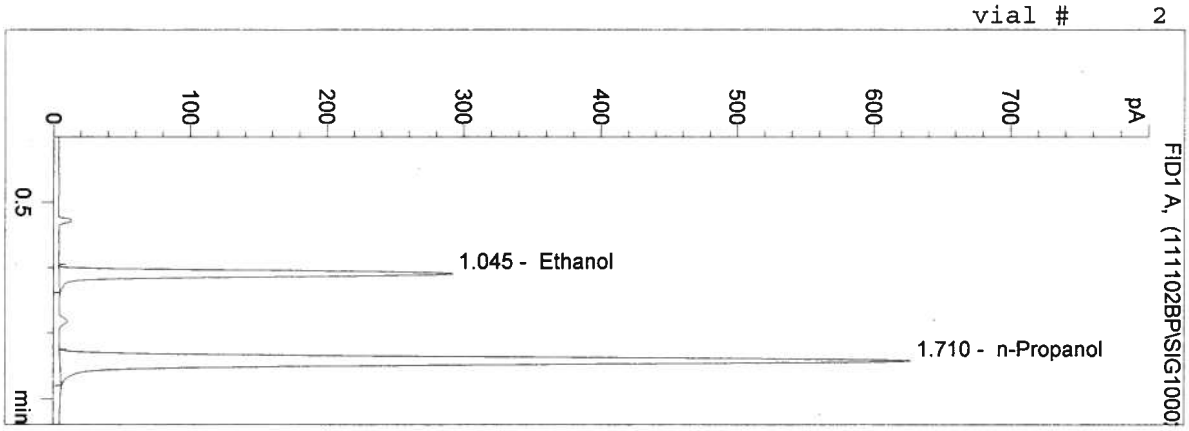
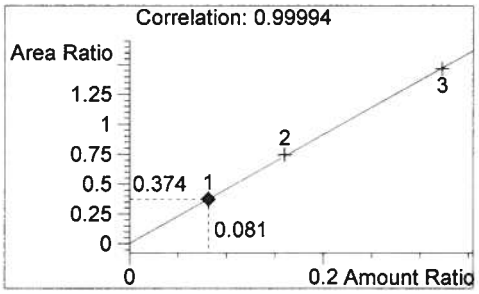
11/2/2011 1:13:09 PM
Instrument 1
DB-ALC1

0.079 CAL 1
Brianna Peterson

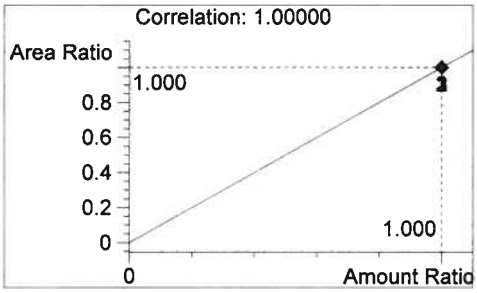
vial # 2



#	Compound	Area	RT
1	Ethanol	945	1.045
2	n-Propanol	2523	1.710
Tot			



Ethanol 0.081 g/100 mL



n-Propanol 1.000 g/100 mL

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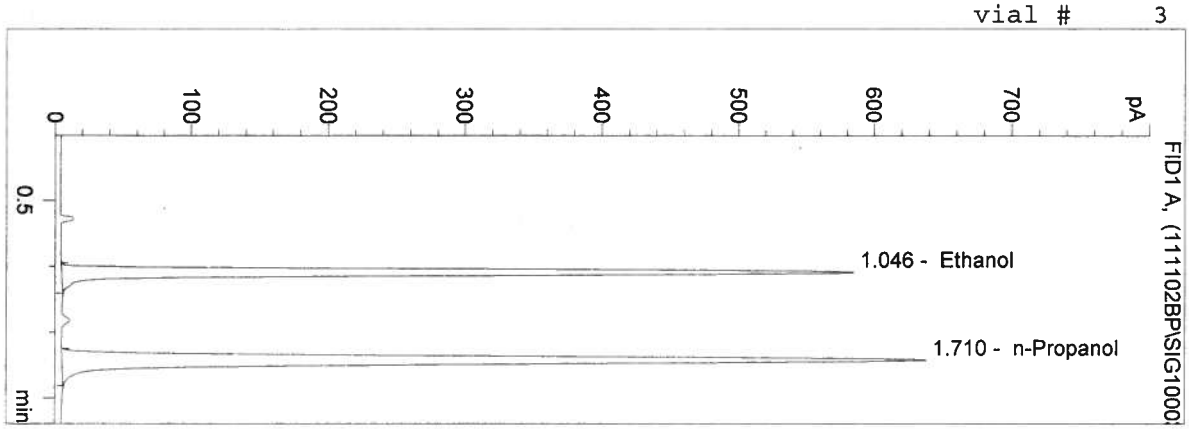
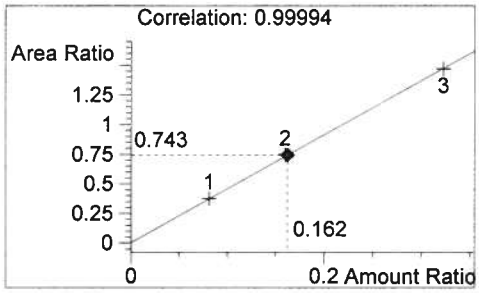
Instrument 1
DB-ALC1

0.158 CAL 2
Brianna Peterson

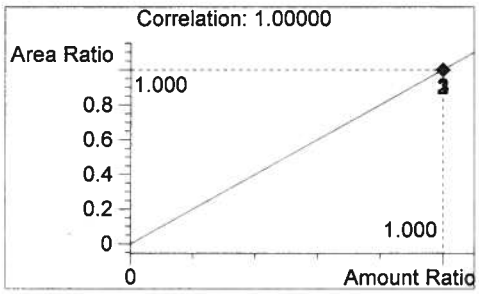
vial # 3



#	Compound	Area	RT
1	Ethanol	1909	1.046
2	n-Propanol	2570	1.710
Tot			



Ethanol 0.162 g/100 mL



n-Propanol 1.000 g/100 mL

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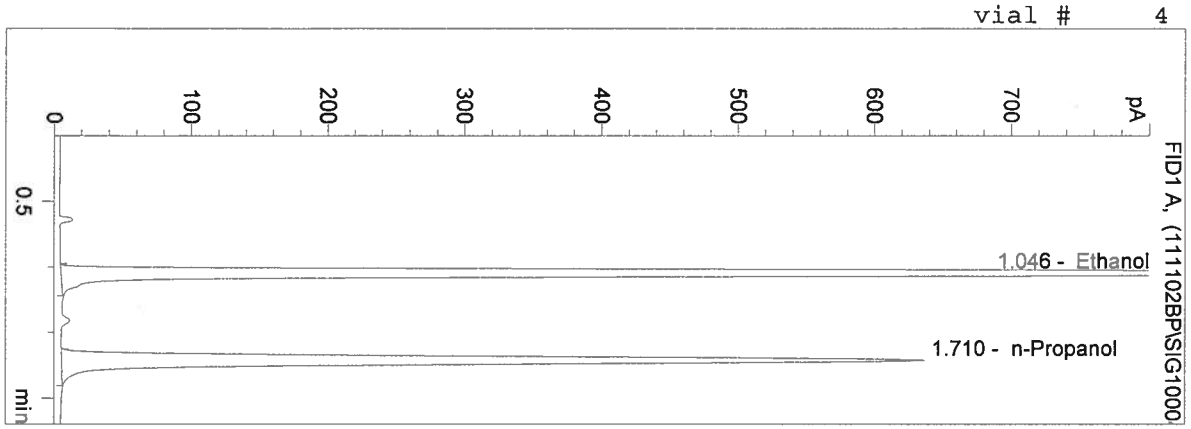
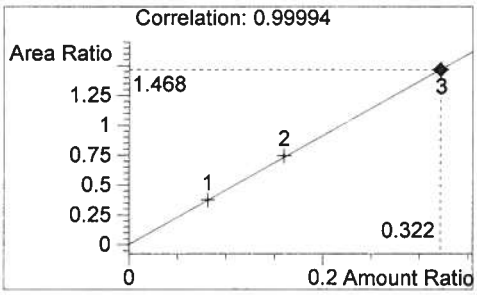
Instrument 1
DB-ALC1

0.316 CAL 3
Brianna Peterson

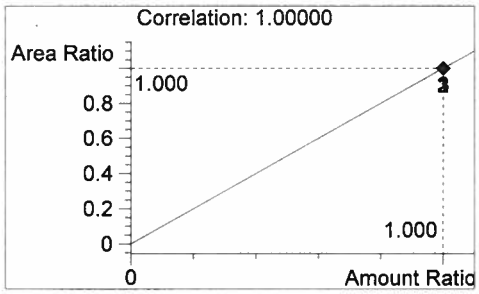
vial # 4



#	Compound	Area	RT
1	Ethanol	3751	1.046
2	n-Propanol	2555	1.710
Tot			



Ethanol 0.322 g/100 mL



n-Propanol 1.000 g/100 mL

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BP

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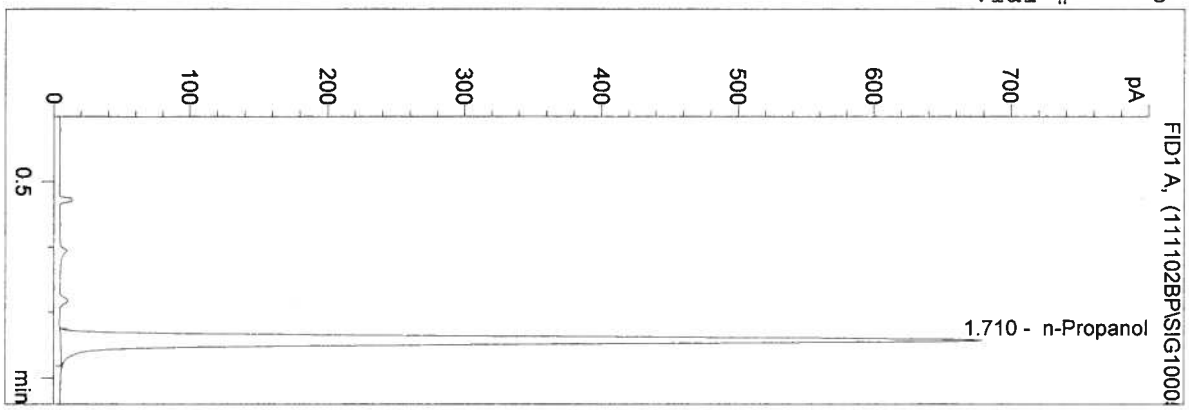
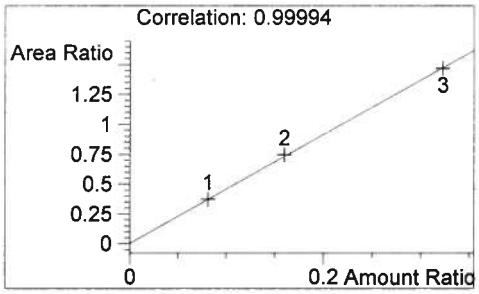
Instrument 1
DB-ALC1

NEG CTRL BP
Brianna Peterson

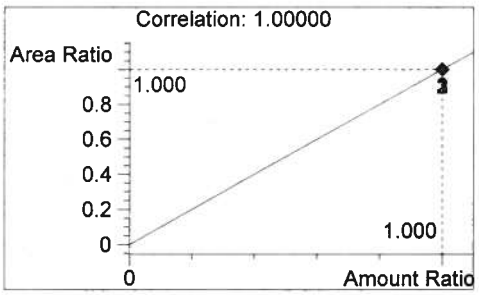
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2736	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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BP

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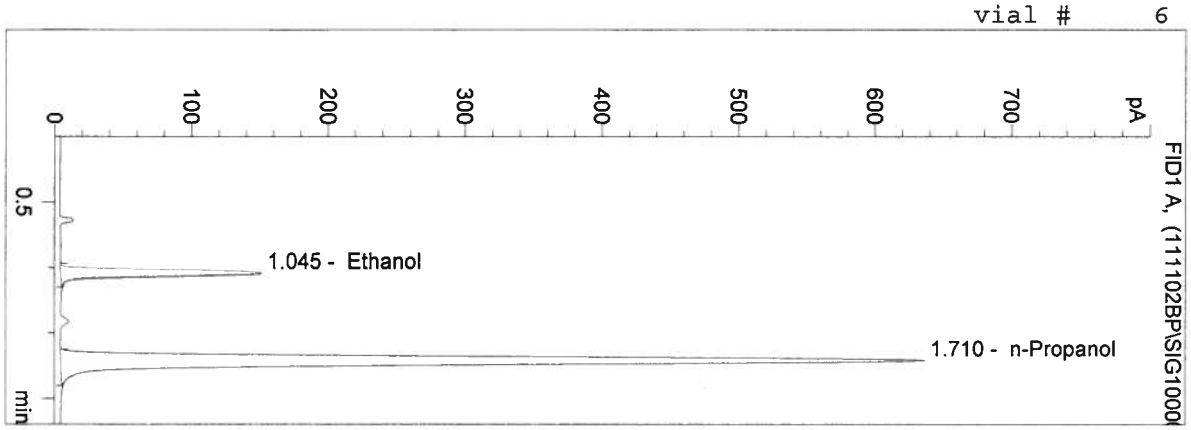
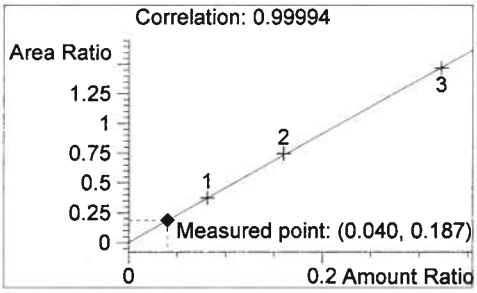
Instrument 1
DB-ALC1

0.04 CTRL BP
Brianna Peterson

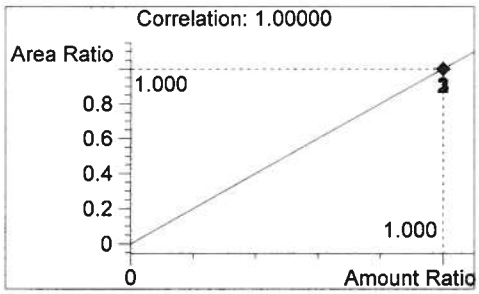
vial # 6



#	Compound	Area	RT
1	Ethanol	479	1.045
2	n-Propanol	2563	1.710
Tot			



Ethanol 0.040 g/100 mL



n-Propanol 1.000 g/100 mL

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BP

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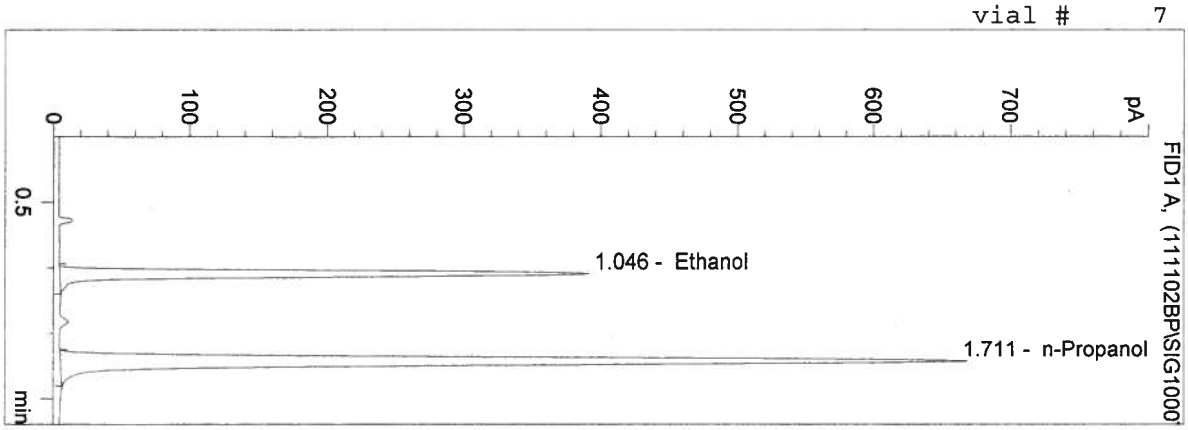
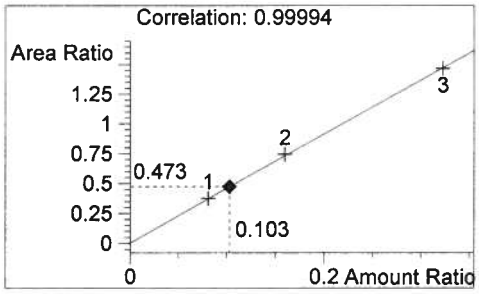
Instrument 1
DB-ALC1

0.10 CTRL BP
Brianna Peterson

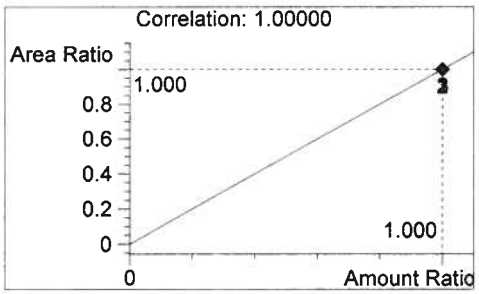
vial # 7



#	Compound	Area	RT
1	Ethanol	1277	1.046
2	n-Propanol	2697	1.711
Tot			



Ethanol 0.103 g/100 mL



n-Propanol 1.000 g/100 mL

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BP

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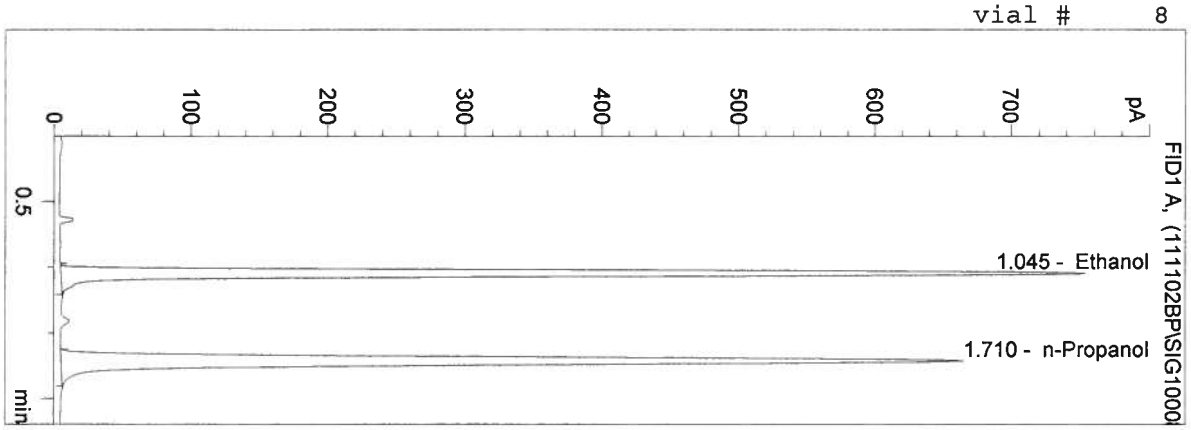
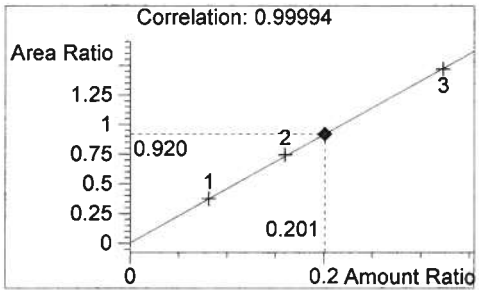
Instrument 1
DB-ALC1

0.20 CTRL BP
Brianna Peterson

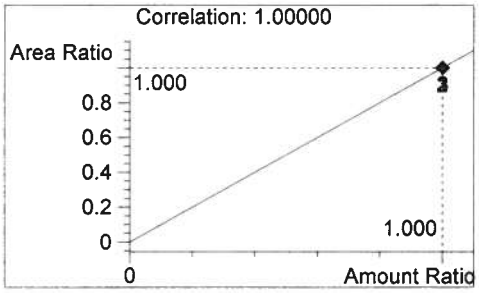
vial # 8



#	Compound	Area	RT
1	Ethanol	2466	1.045
2	n-Propanol	2682	1.710
Tot			



Ethanol 0.201 g/100 mL



n-Propanol 1.000 g/100 mL

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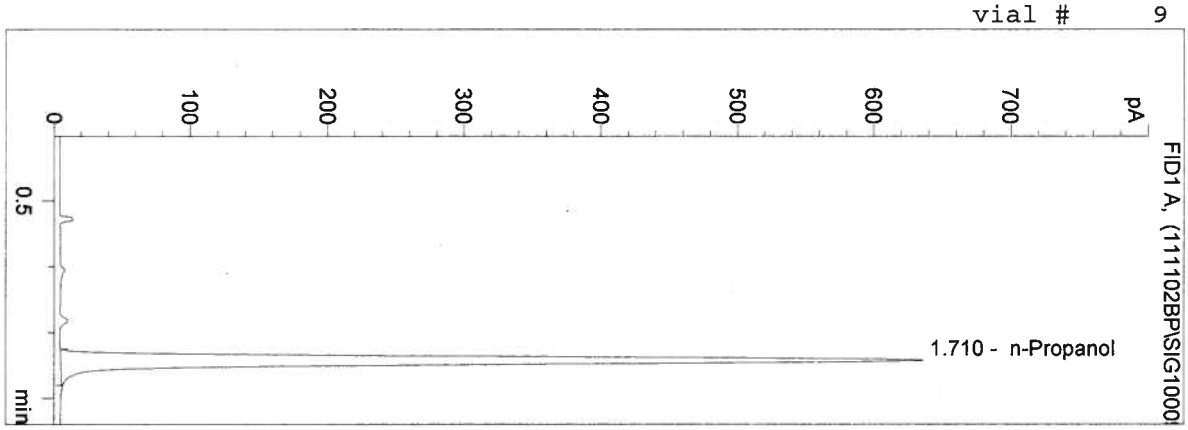
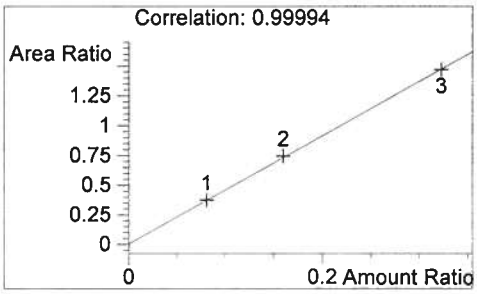
Instrument 1
DB-ALC1

NEG CTRL BP
Brianna Peterson

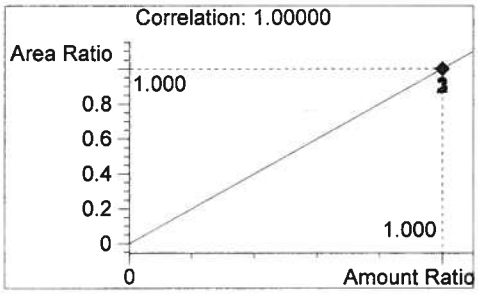
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2560	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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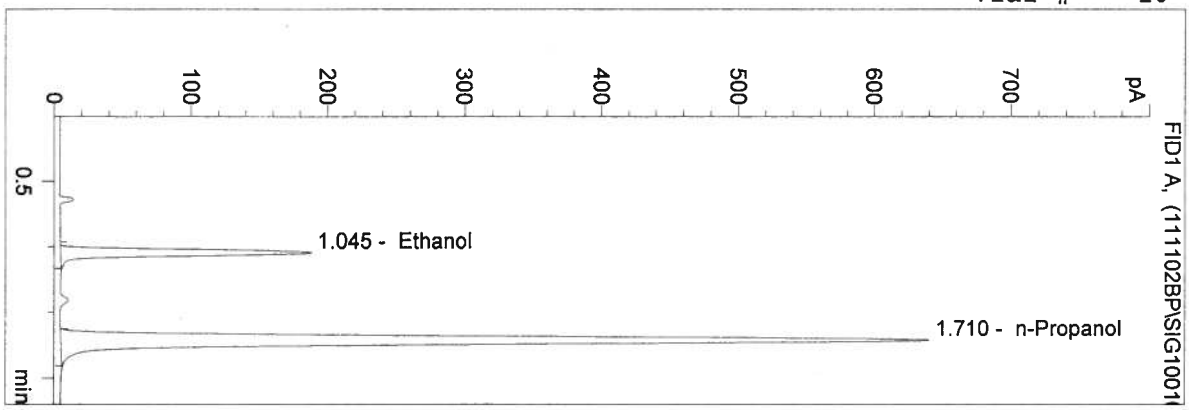
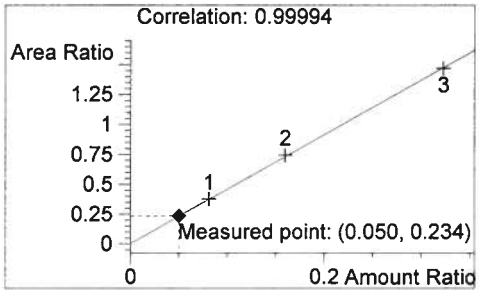
Instrument 1
DB-ALC1

QA11046-1
Brianna Peterson

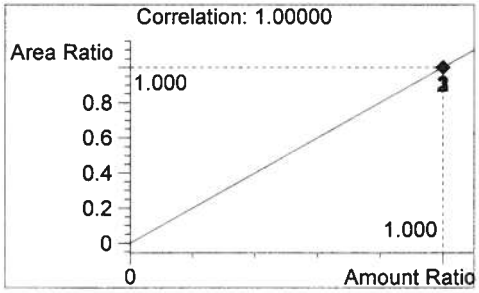
vial # 10



#	Compound	Area	RT
1	Ethanol	603	1.045
2	n-Propanol	2580	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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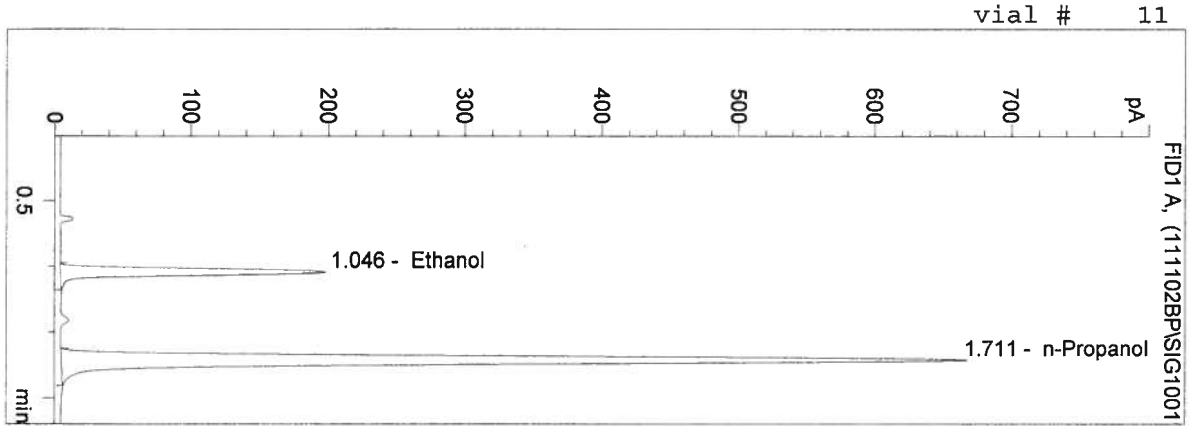
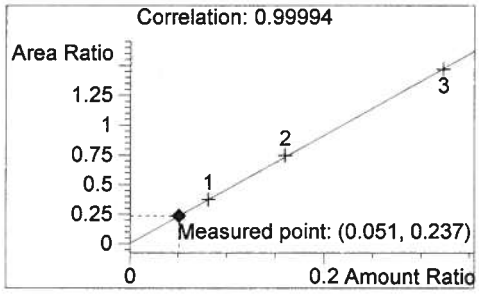
Instrument 1
DB-ALC1

QA11046-2
Brianna Peterson

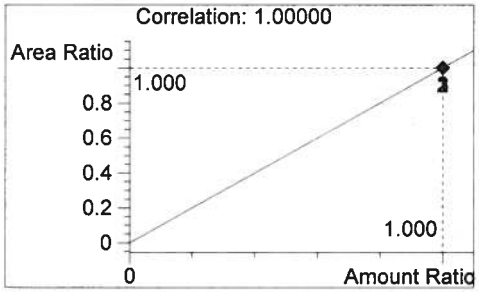
vial # 11



#	Compound	Area	RT
1	Ethanol	638	1.046
2	n-Propanol	2696	1.711
Tot			



Ethanol 0.051 g/100 mL



n-Propanol 1.000 g/100 mL

BP

WASHINGTON STATE TOXICOLOGY LABORATORY

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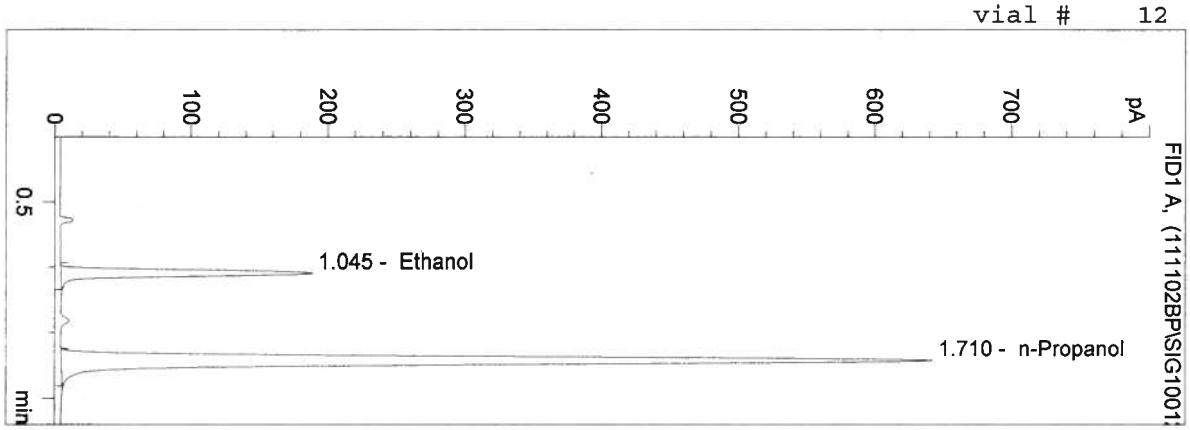
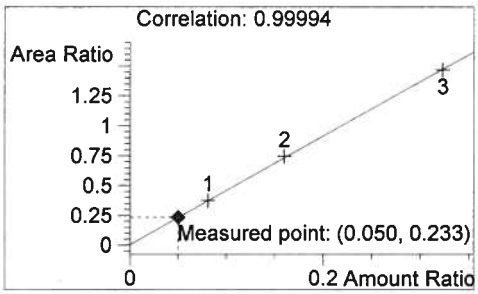
Instrument 1
DB-ALC1

QA11046-3
Brianna Peterson

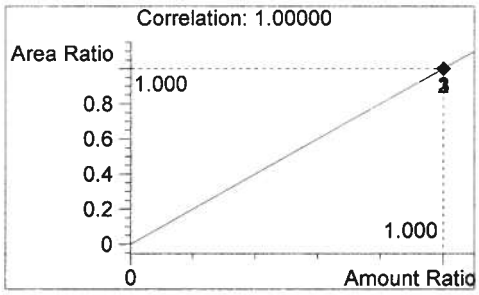
vial # 12



#	Compound	Area	RT
1	Ethanol	603	1.045
2	n-Propanol	2584	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

BP

WASHINGTON STATE TOXICOLOGY LABORATORY

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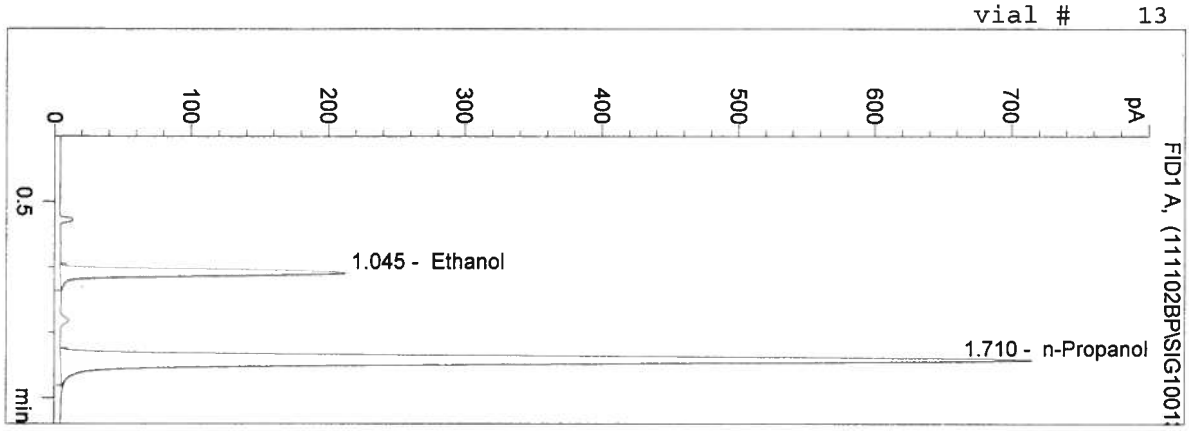
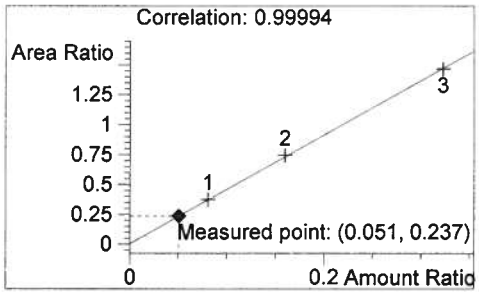
Instrument 1
DB-ALC1

QA11046-4
Brianna Peterson

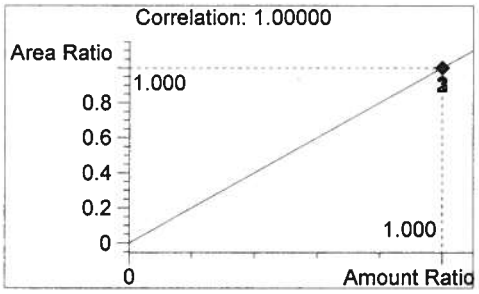
vial # 13



#	Compound	Area	RT
1	Ethanol	683	1.045
2	n-Propanol	2882	1.710
Tot			



Ethanol 0.051 g/100 mL



n-Propanol 1.000 g/100 mL

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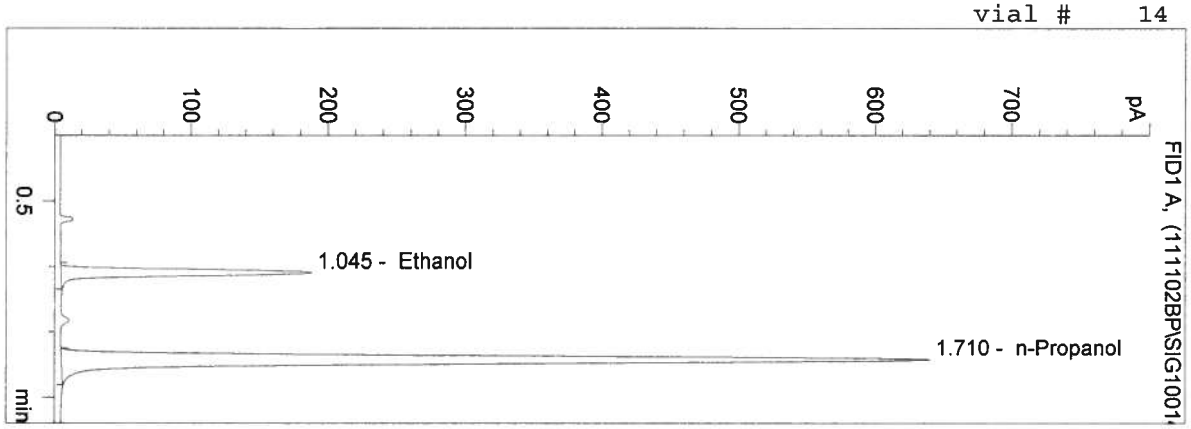
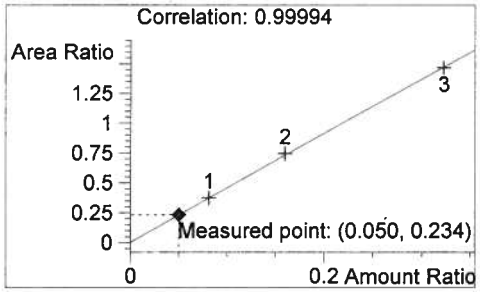
Instrument 1
DB-ALC1

QA11046-5
Brianna Peterson

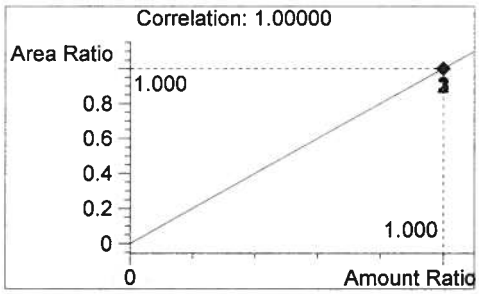
vial # 14



#	Compound	Area	RT
1	Ethanol	604	1.045
2	n-Propanol	2585	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

BP

WASHINGTON STATE TOXICOLOGY LABORATORY

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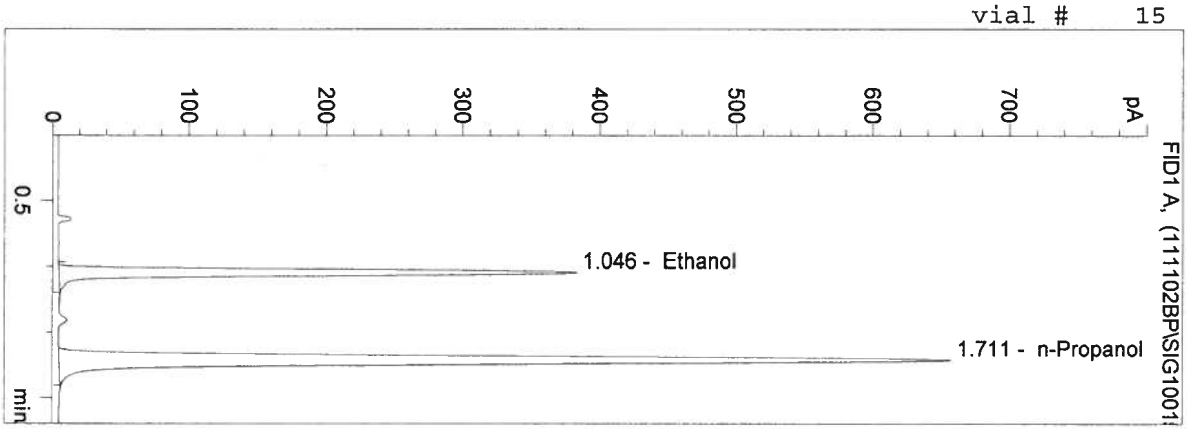
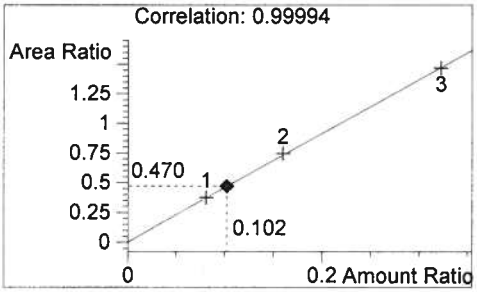
Instrument 1
DB-ALC1

0.10 CTRL BP
Brianna Peterson

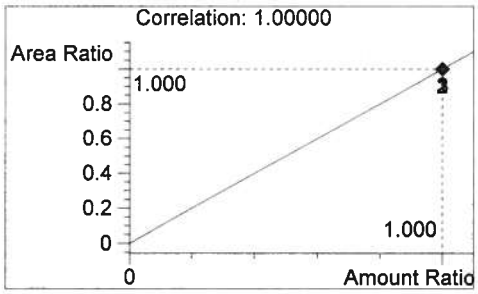
vial # 15



#	Compound	Area	RT
1	Ethanol	1246	1.046
2	n-Propanol	2651	1.711
Tot			



Ethanol 0.102 g/100 mL



n-Propanol 1.000 g/100 mL

11046

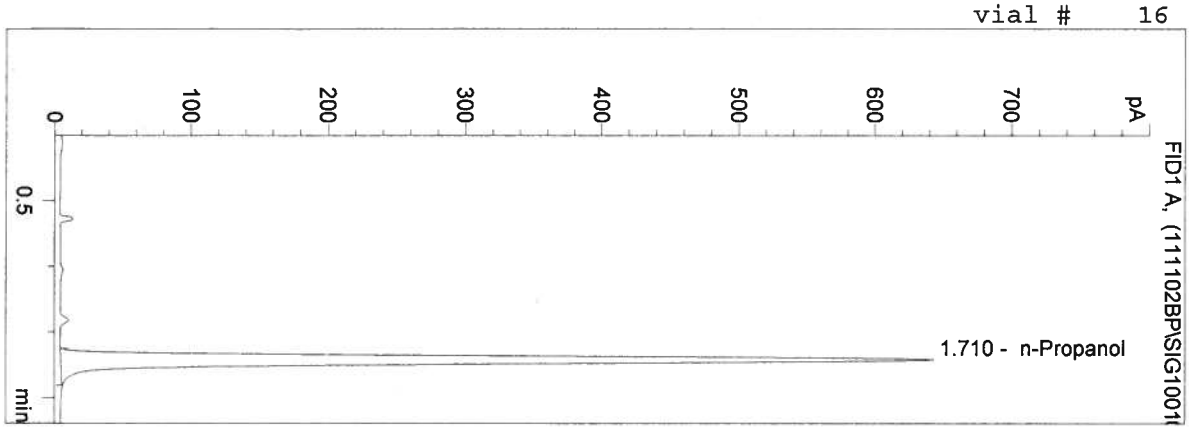
BP

WASHINGTON STATE TOXICOLOGY LABORATORY

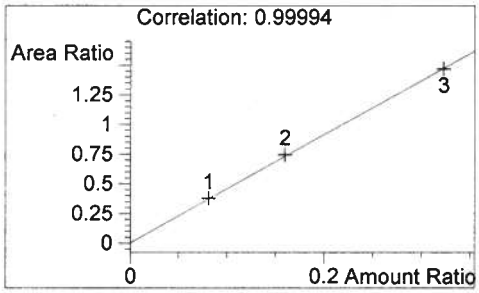
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 1:56:15 PM
Instrument 1
DB-ALC1

NEG CTRL BP
Brianna Peterson

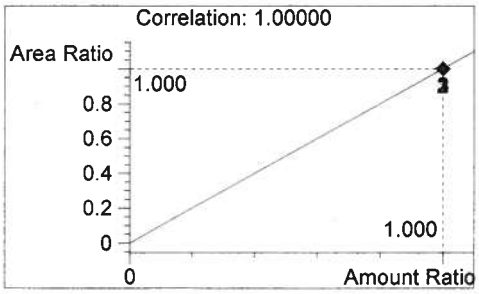
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2594	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11046

BB

Sequence Parameters:

Operator:	Dawn Cox
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Counter:	0001
Signal 2 Prefix:	SIG2
Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	111102DC
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

Cal 1 Lot# E0911-01
Cal 2 Lot# E0911-02
Cal 3 Lot# E0911-03

0.04 Control - Lot # A075264 - exp 10/2014
0.10 Control - Lot # A075806 - exp 11/2014
0.20 Control - Lot # A076521 - exp 12/2014

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	SIMALC1	1	Sample		
2	Vial 2	0.079 CAL 1	SIMALC1	1	Calib		
3	Vial 3	0.158 CAL 2	SIMALC1	1	Calib		
4	Vial 4	0.316 CAL 3	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL - DC	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL - DC	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL - DC	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL -DC	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL - DC	SIMALC1	1	Ctrl Samp		
10	Vial 10	11046 #1	SIMALC1	1	Sample		
11	Vial 11	11046 #2	SIMALC1	1	Sample		
12	Vial 12	11046 #3	SIMALC1	1	Sample		
13	Vial 13	11046 #4	SIMALC1	1	Sample		
14	Vial 14	11046 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL - DC	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL - DC	SIMALC1	1	Ctrl Samp		
17	Vial 17	11047 #1	SIMALC1	1	Sample		
18	Vial 18	11047 #2	SIMALC1	1	Sample		
19	Vial 19	11047 #3	SIMALC1	1	Sample		
20	Vial 20	11047 #4	SIMALC1	1	Sample		
21	Vial 21	11047 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL - DC	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL - DC	SIMALC1	1	Ctrl Samp		
24	Vial 24	11048 #1	SIMALC1	1	Sample		
25	Vial 25	11048 #2	SIMALC1	1	Sample		
26	Vial 26	11048 #3	SIMALC1	1	Sample		
27	Vial 27	11048 #4	SIMALC1	1	Sample		

11046
11047
11049

DC

Sequence: C:\HPCHEM\1\SEQUENCE\DCQAP.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
28	Vial 28	11048 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL - DC	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL - DC	SIMALC1	1	Ctrl Samp		
31	Vial 31	11049 #1	SIMALC1	1	Sample		
32	Vial 32	11049 #2	SIMALC1	1	Sample		
33	Vial 33	11049 #3	SIMALC1	1	Sample		
34	Vial 34	11049 #4	SIMALC1	1	Sample		
35	Vial 35	11049 #5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL - DC	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL - DC	SIMALC1	1	Ctrl Samp		

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	0.079 CAL 1	SIMALC1	1	Replace	Replace	
3	Vial 3	0.158 CAL 2	SIMALC1	2	Replace	Replace	
4	Vial 4	0.316 CAL 3	SIMALC1	3	Replace	Replace	

Sequence Table (Back Injector):

No entries - empty table!

11046
11047
11049

DC

Calibration Table

Calib. Data Modified : Wednesday, November 02, 2011 9:55:57 AM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

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

ISTD #	ISTD Amount [g/100mL]	Name
1	1.00000	n-Propanol

Signal 1: FID1 A,

RetTime [min]	Lvl	Sig		Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.045	1		1	8.12800e-2	1001.27966	8.11761e-5	1		Ethanol
			2	1.60090e-1	1902.30090	8.41560e-5			
			3	3.22750e-1	3761.39624	8.58059e-5			
1.710	1		1	1.00000	2641.64258	3.78552e-4	I1		n-Propanol
			2	1.00000	2580.88159	3.87465e-4			
			3	1.00000	2574.96094	3.88355e-4			

Peak Sum Table

No Entries in table

11046
11047
11049

DC

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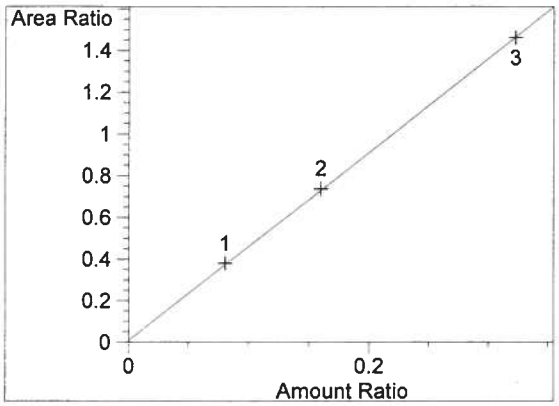
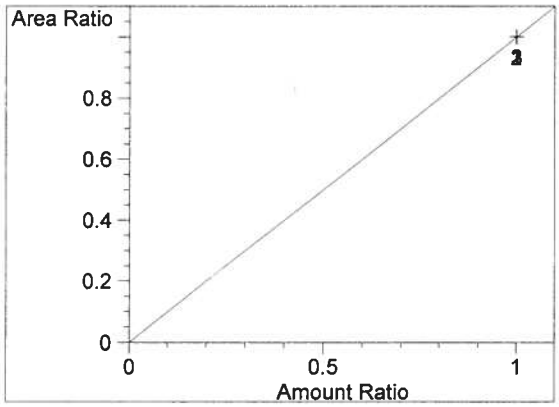
Calibration Curves

==========



Ethanol at exp. RT: 1.045
FID1 A,
Correlation: 0.99994
Residual Std. Dev.: 0.00830
Formula: y = mx + b
m: 4.51843
b: 6.98259e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.710
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

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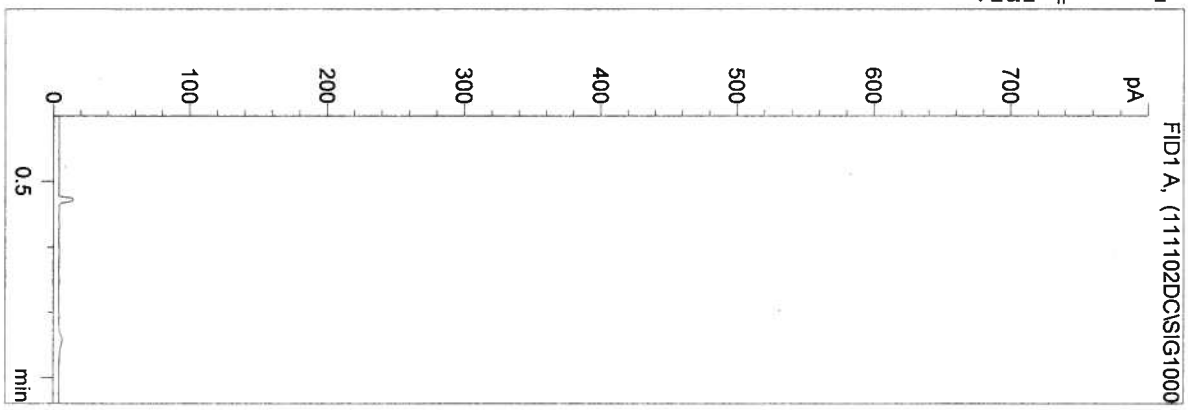
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

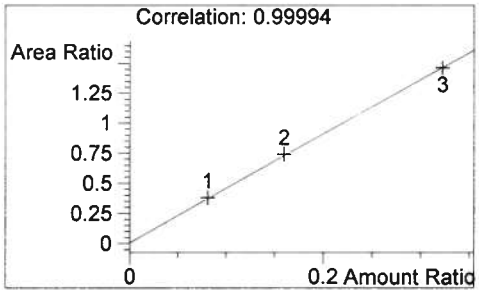
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 9:44:29 AM
Instrument 1
DB-ALC1

BLANK
Dawn Cox

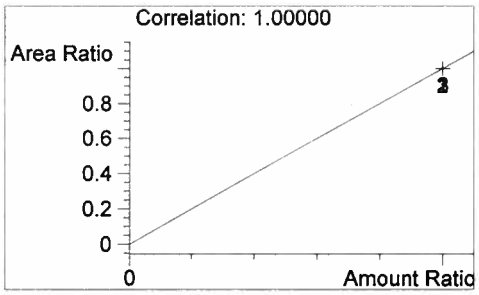
vial # 1



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



Ethanol 0.000 g/100 mL



n-Propanol 0.000 g/100 mL

11046
11047
11049

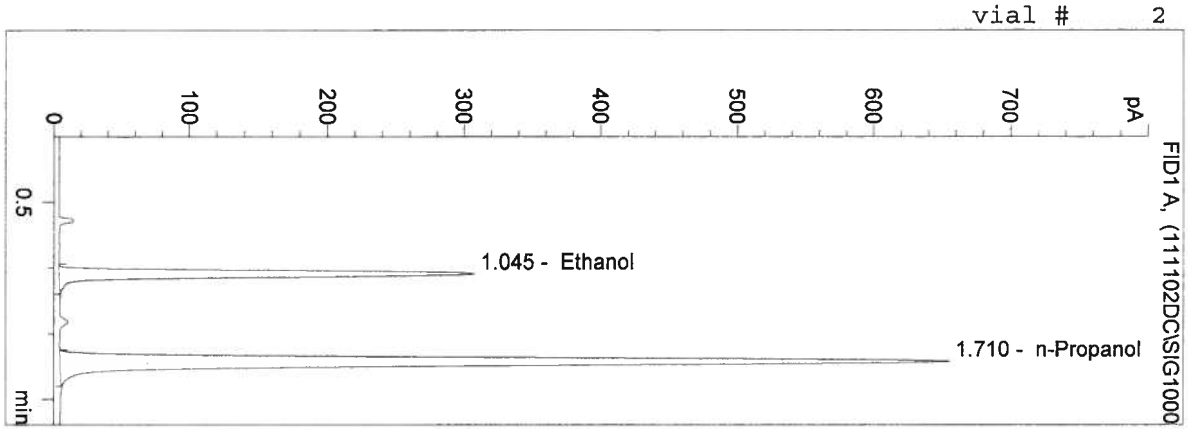
DL

WASHINGTON STATE TOXICOLOGY LABORATORY

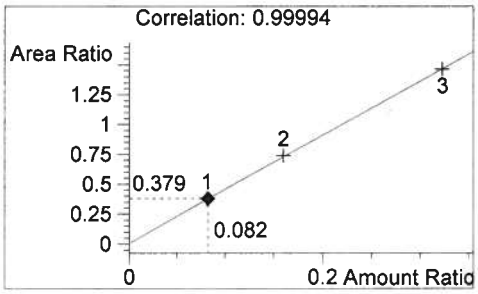
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 9:47:34 AM
Instrument 1
DB-ALC1

0.079 CAL 1
Dawn Cox

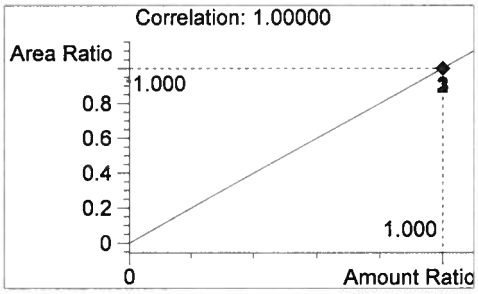
vial # 2



#	Compound	Area	RT
1	Ethanol	1001	1.045
2	n-Propanol	2642	1.710
Tot			



Ethanol 0.082 g/100 mL



n-Propanol 1.000 g/100 mL

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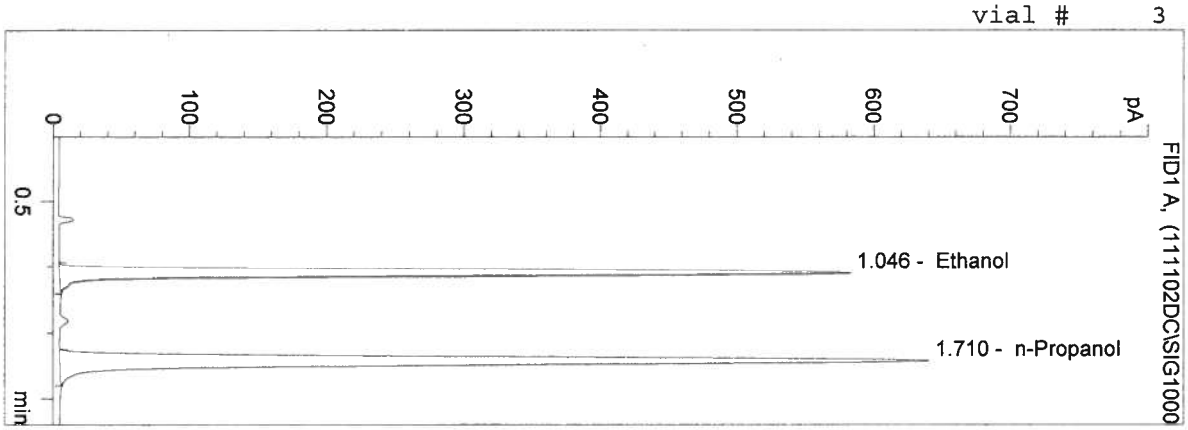
WASHINGTON STATE TOXICOLOGY LABORATORY

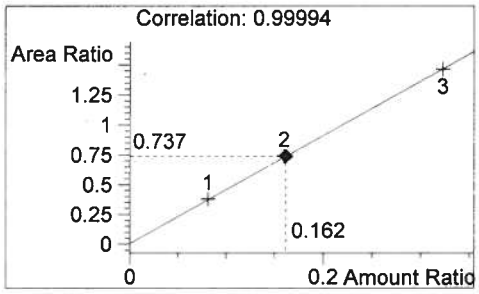
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 9:50:39 AM
Instrument 1
DB-ALC1

0.158 CAL 2
Dawn Cox

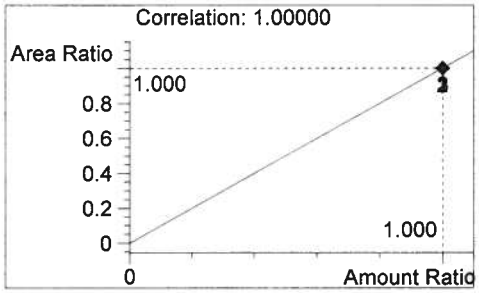
vial # 3



#	Compound	Area	RT
1	Ethanol	1902	1.046
2	n-Propanol	2581	1.710
Tot			



Ethanol 0.162 g/100 mL



n-Propanol 1.000 g/100 mL

11046
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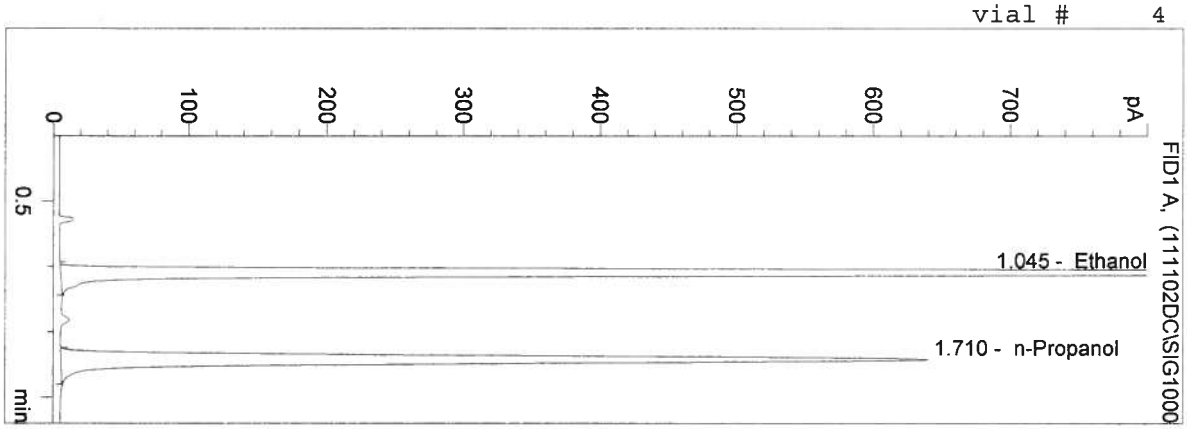
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

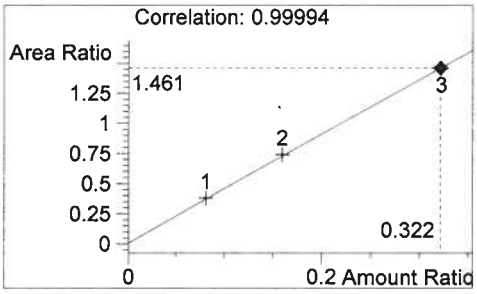
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 9:53:44 AM
Instrument 1
DB-ALC1

0.316 CAL 3
Dawn Cox

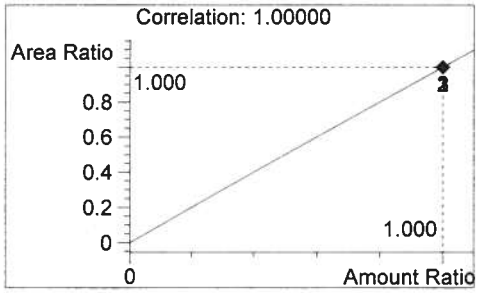
vial # 4



#	Compound	Area	RT
1	Ethanol	3761	1.045
2	n-Propanol	2575	1.710
Tot			



Ethanol 0.322 g/100 mL



n-Propanol 1.000 g/100 mL

11046
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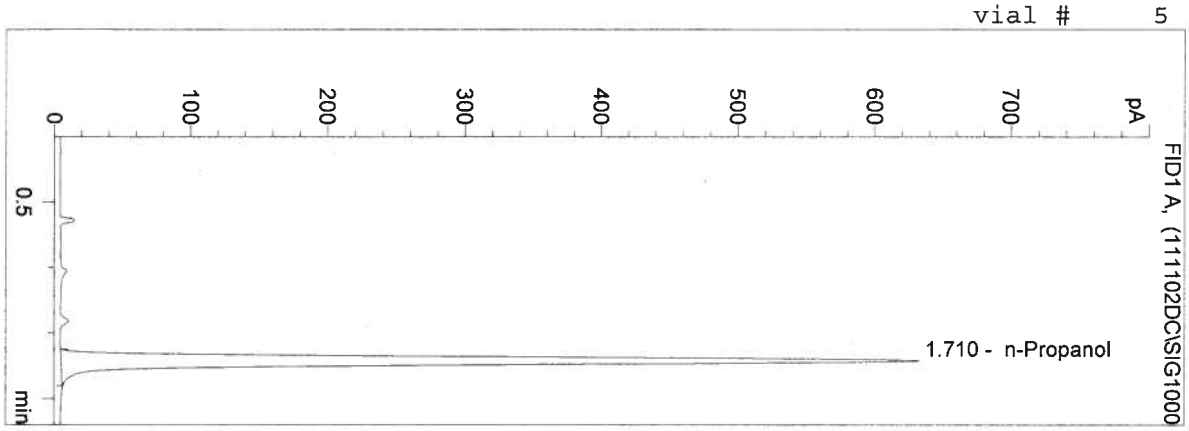
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

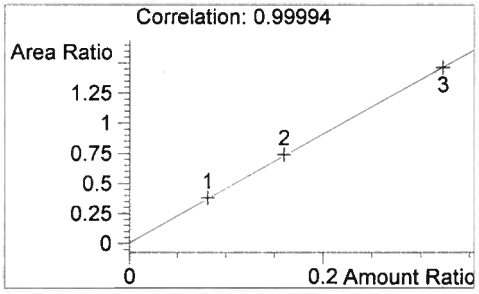
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 9:56:48 AM
Instrument 1
DB-ALC1

NEG CTRL - DC
Dawn Cox

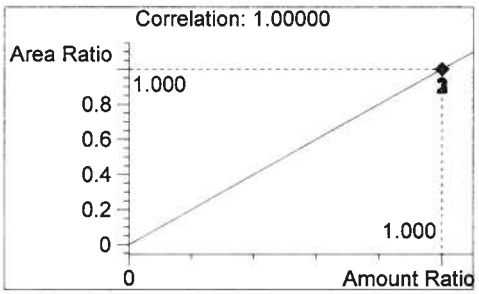
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2551	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11046
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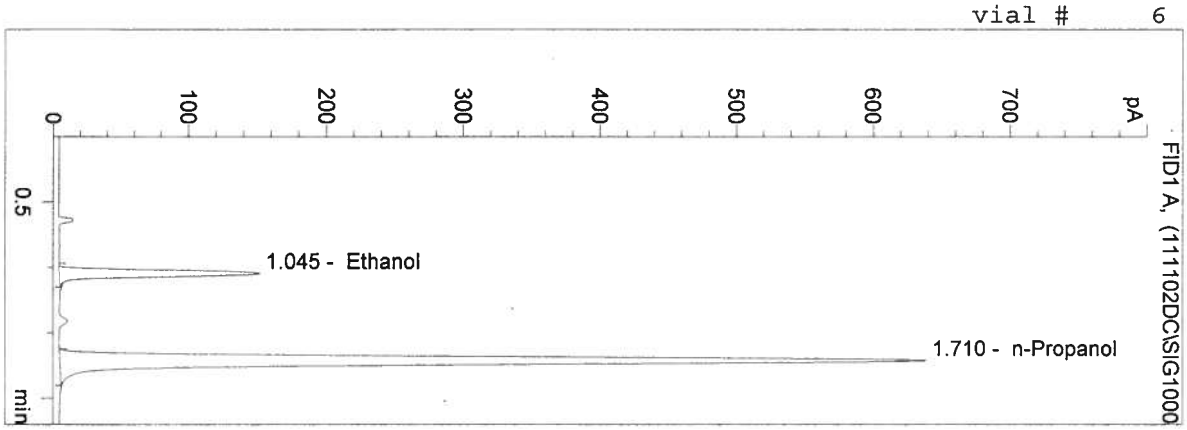
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

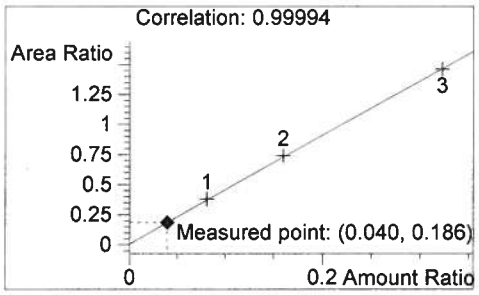
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 9:59:53 AM
Instrument 1
DB-ALC1

0.04 CTRL - DC
Dawn Cox

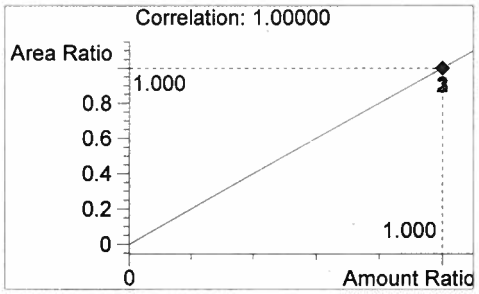
vial # 6



#	Compound	Area	RT
1	Ethanol	479	1.045
2	n-Propanol	2569	1.710
Tot			



Ethanol 0.040 g/100 mL



n-Propanol 1.000 g/100 mL

11046
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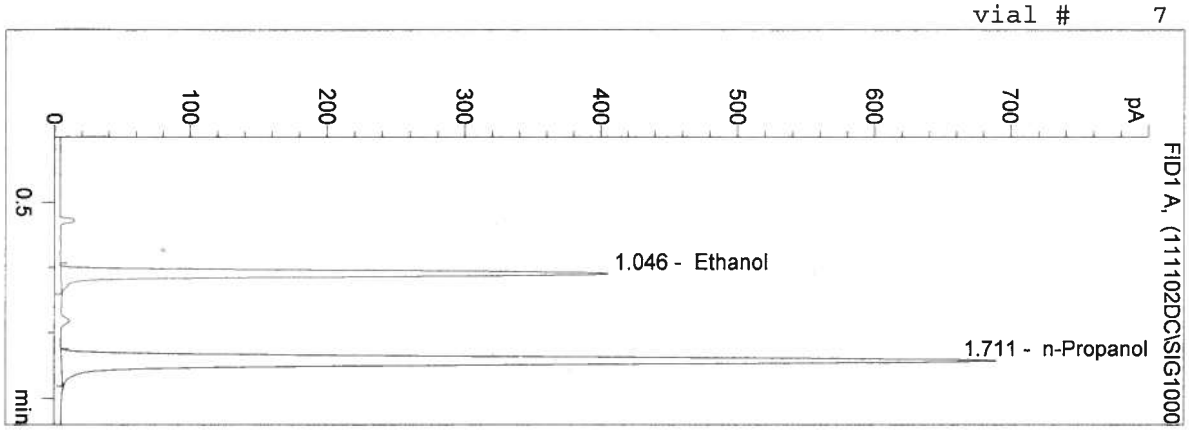
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

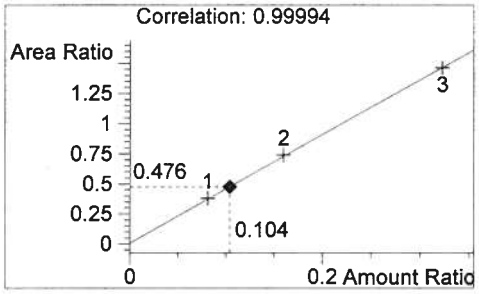
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 10:02:58 AM
Instrument 1
DB-ALC1

0.10 CTRL - DC
Dawn Cox

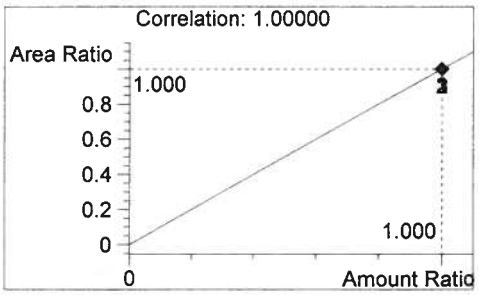
vial # 7



#	Compound	Area	RT
1	Ethanol	1326	1.046
2	n-Propanol	2786	1.711
Tot			



Ethanol 0.104 g/100 mL



n-Propanol 1.000 g/100 mL

11046
11047
11049

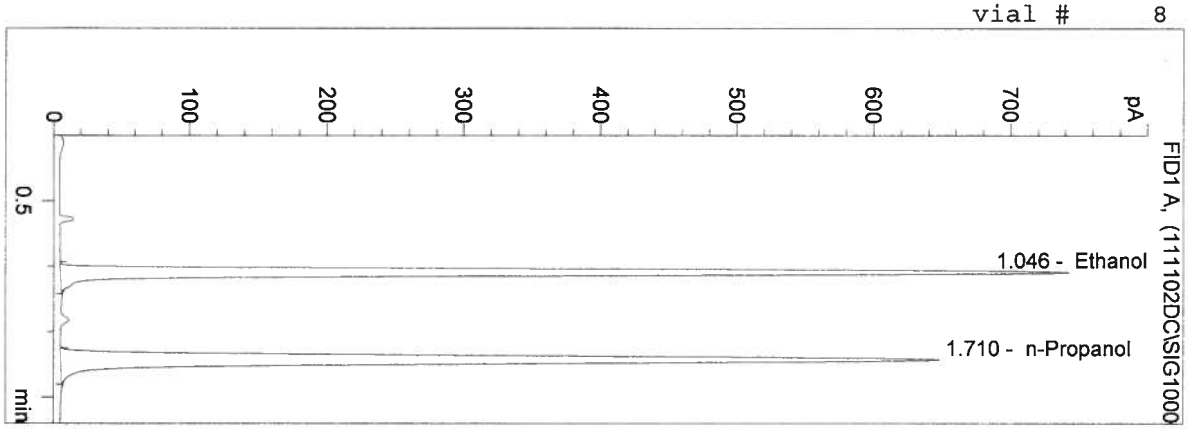
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

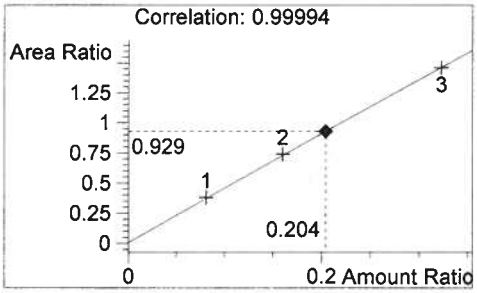
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 10:06:02 AM
Instrument 1
DB-ALC1

0.20 CTRL -DC
Dawn Cox

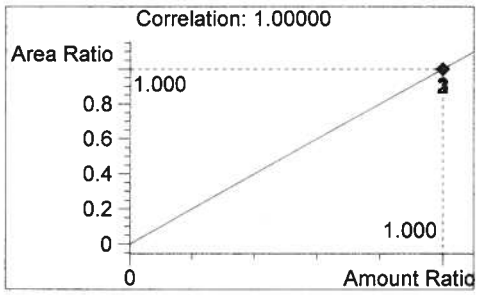
vial # 8



#	Compound	Area	RT
1	Ethanol	2418	1.046
2	n-Propanol	2602	1.710
Tot			



Ethanol 0.204 g/100 mL



n-Propanol 1.000 g/100 mL

11046
11047
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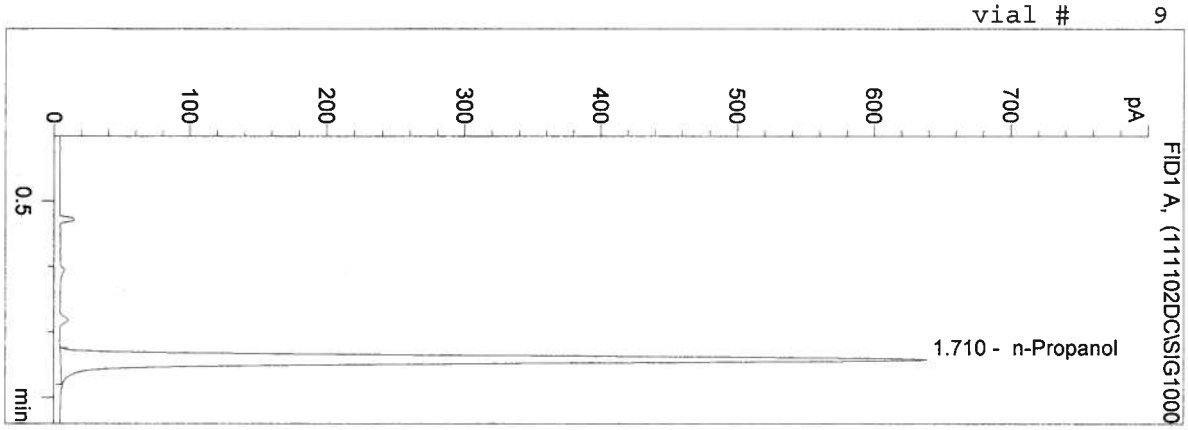
DC

WASHINGTON STATE TOXICOLOGY LABORATORY

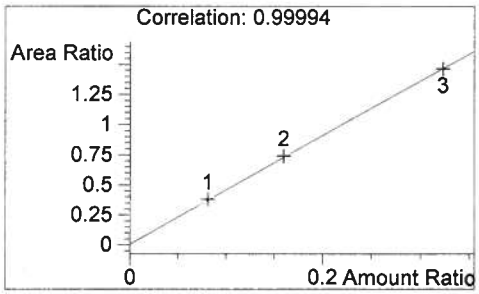
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 10:09:07 AM
Instrument 1
DB-ALC1

NEG CTRL - DC
Dawn Cox

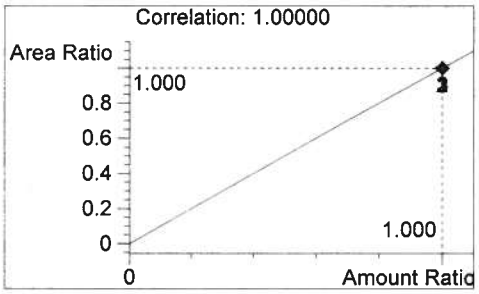
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2568	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

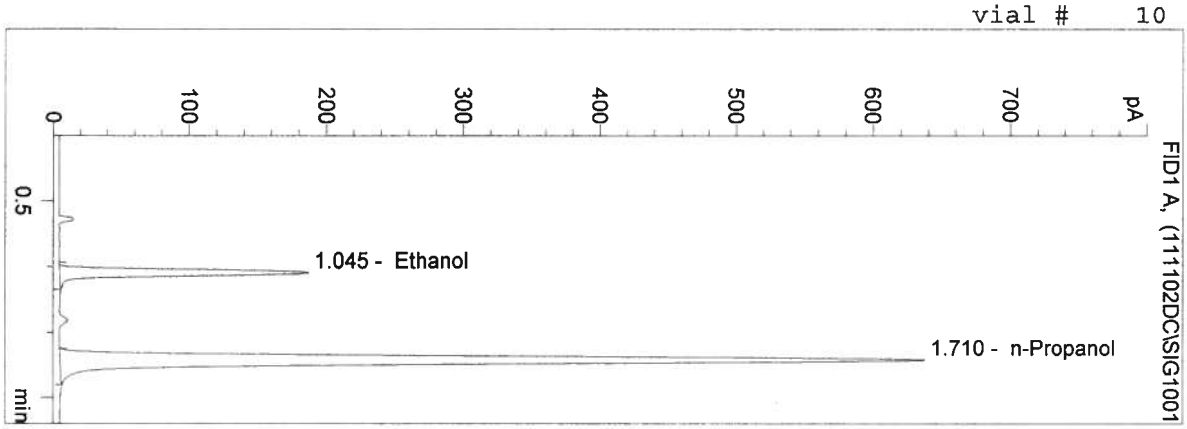
11046
11047
11049

WASHINGTON STATE TOXICOLOGY LABORATORY

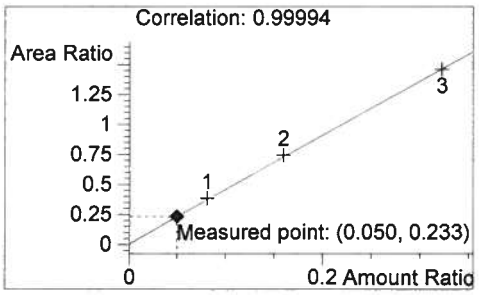
C:\HPCHEM\1\METHODS\SIMALC1.M
11/2/2011 10:12:12 AM
Instrument 1
DB-ALC1

11046 #1
Dawn Cox

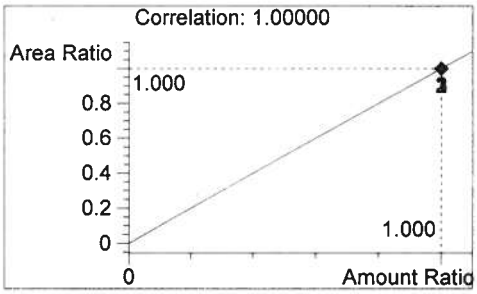
vial # 10



#	Compound	Area	RT
1	Ethanol	596	1.045
2	n-Propanol	2565	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

DC

WASHINGTON STATE TOXICOLOGY LABORATORY

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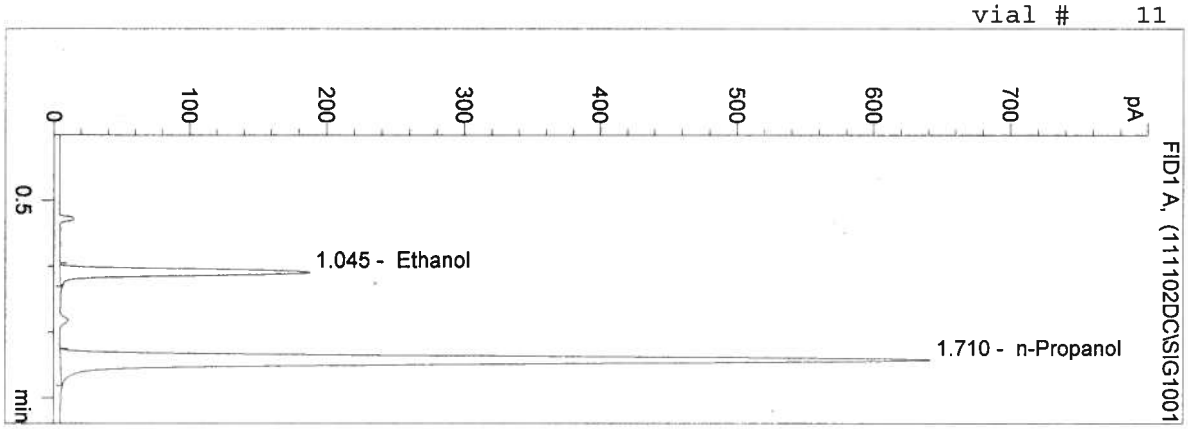
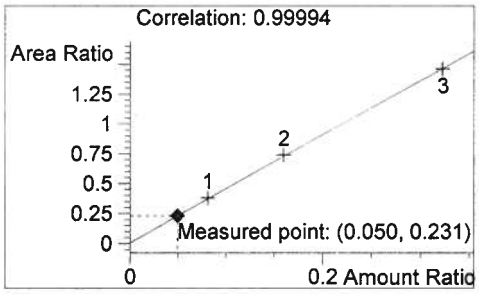
Instrument 1
DB-ALC1

11046 #2
Dawn Cox

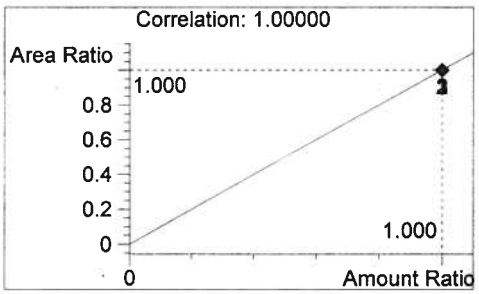
vial # 11



#	Compound	Area	RT
1	Ethanol	598	1.045
2	n-Propanol	2584	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

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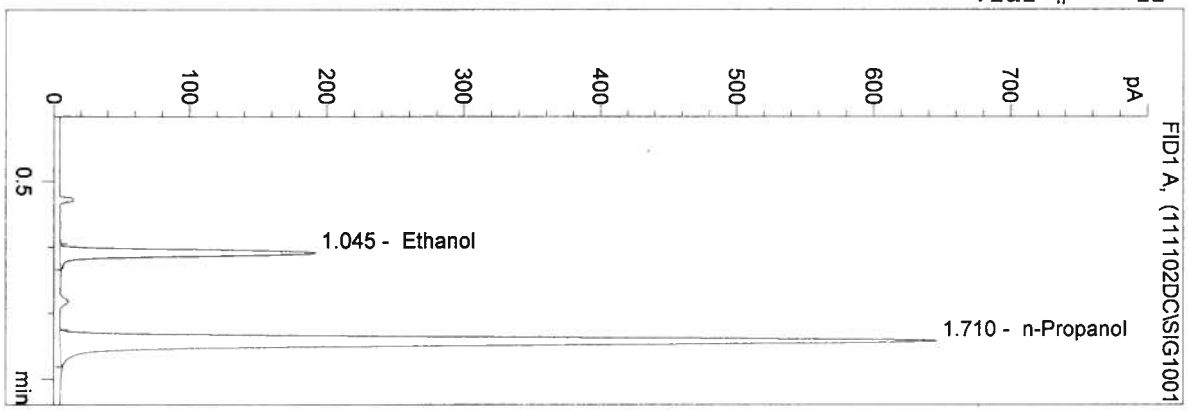
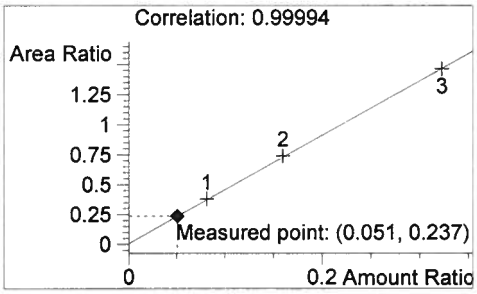
Instrument 1
DB-ALC1

11046 #3
Dawn Cox

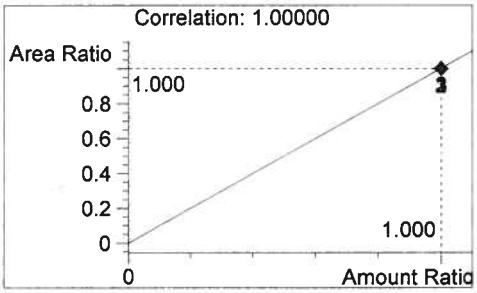
vial # 12



#	Compound	Area	RT
1	Ethanol	615	1.045
2	n-Propanol	2600	1.710
Tot			



Ethanol 0.051 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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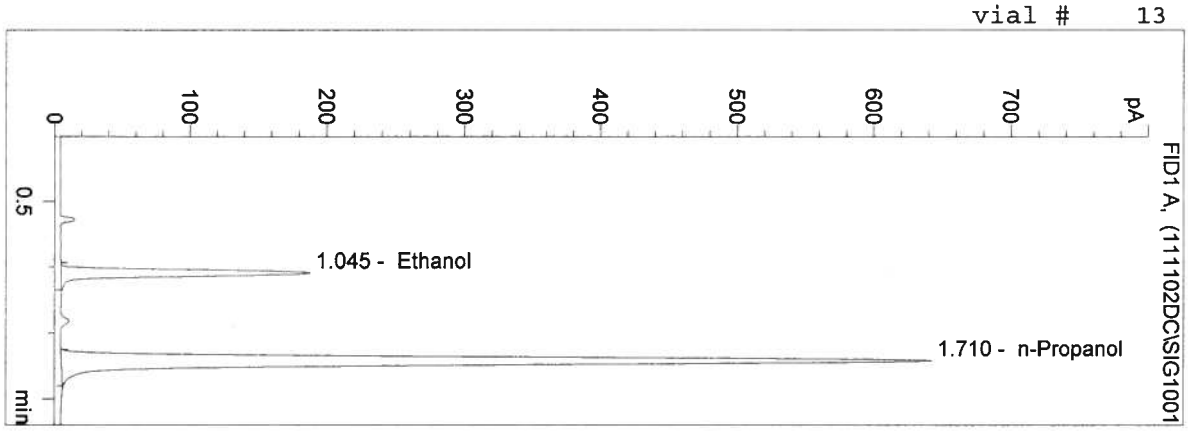
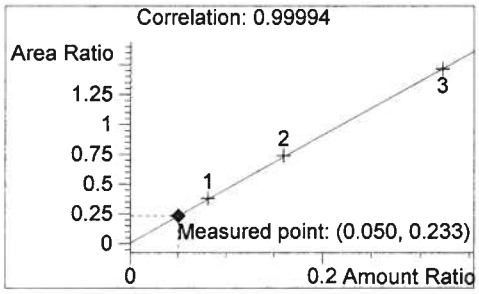
11/2/2011 10:21:26 AM
Instrument 1
DB-ALC1

11046 #4
Dawn Cox

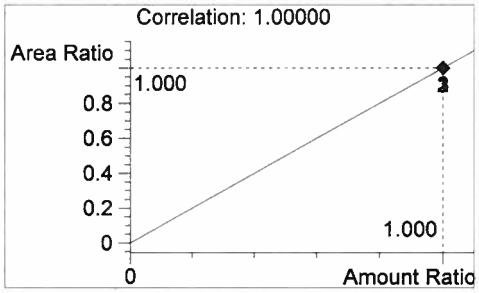
vial # 13



#	Compound	Area	RT
1	Ethanol	602	1.045
2	n-Propanol	2581	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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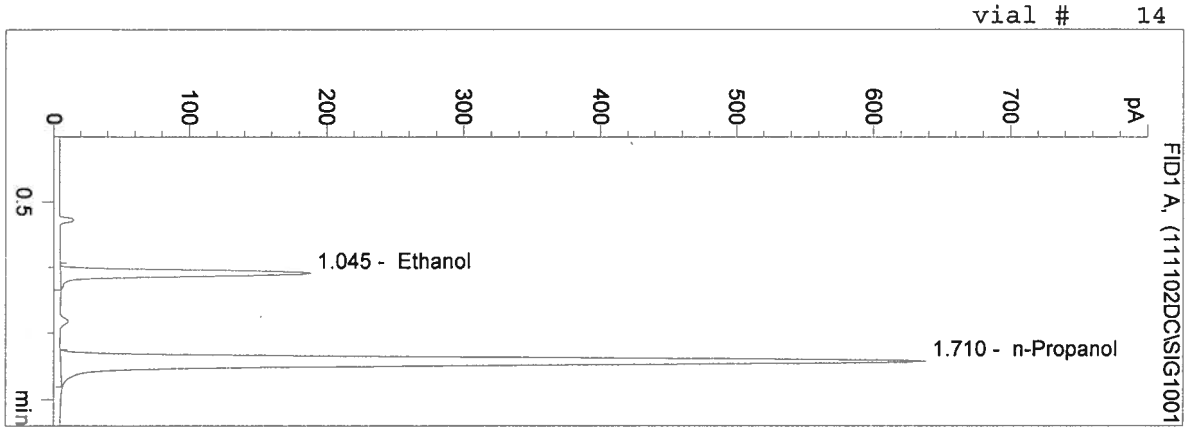
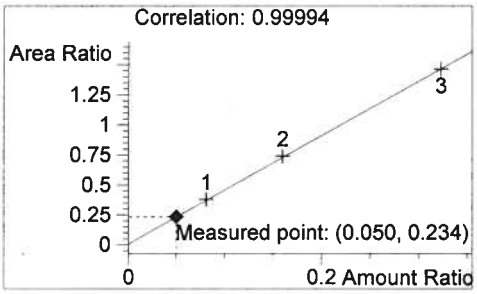
Instrument 1
DB-ALC1

11046 #5
Dawn Cox

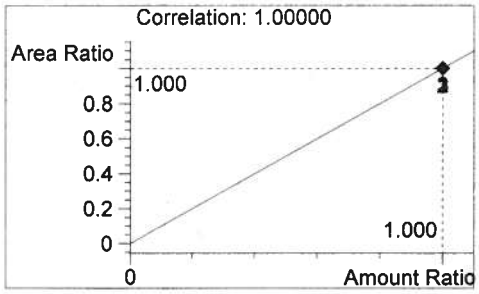
vial # 14



#	Compound	Area	RT
1	Ethanol	601	1.045
2	n-Propanol	2564	1.710
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

DC

WASHINGTON STATE TOXICOLOGY LABORATORY

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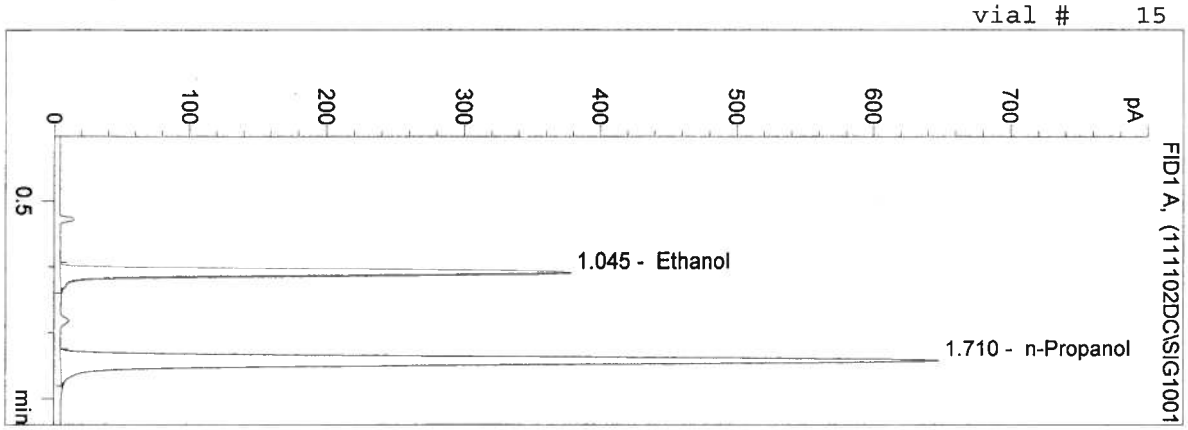
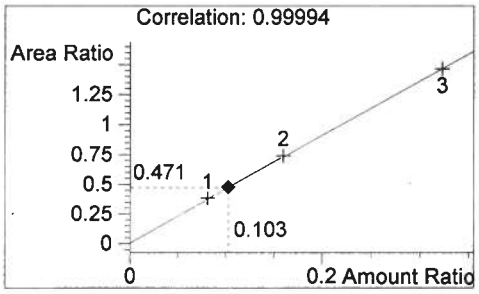
Instrument 1
DB-ALC1

0.10 CTRL - DC
Dawn Cox

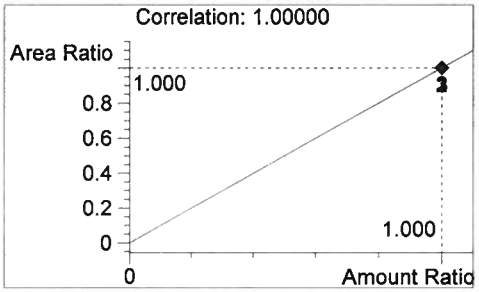
vial # 15



#	Compound	Area	RT
1	Ethanol	1233	1.045
2	n-Propanol	2616	1.710
Tot			



Ethanol 0.103 g/100 mL



n-Propanol 1.000 g/100 mL

11046

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WASHINGTON STATE TOXICOLOGY LABORATORY

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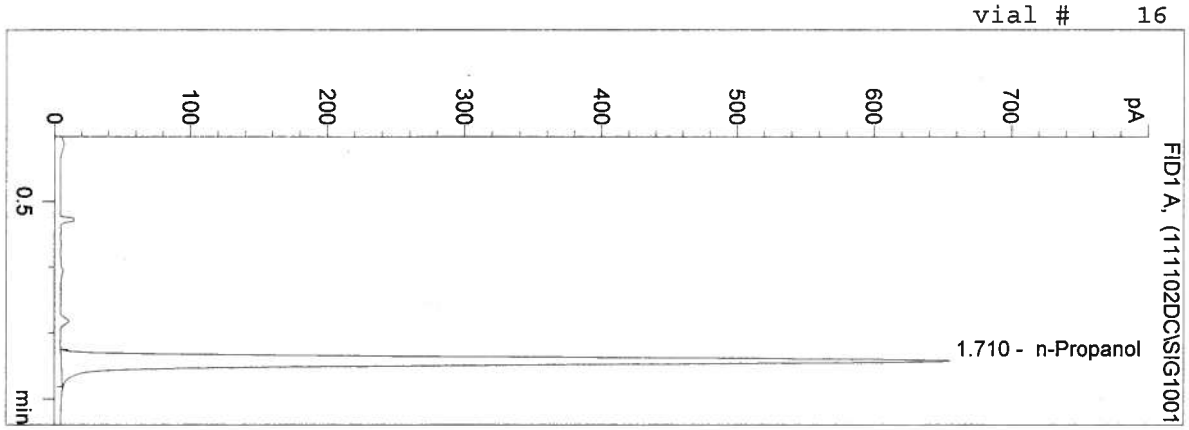
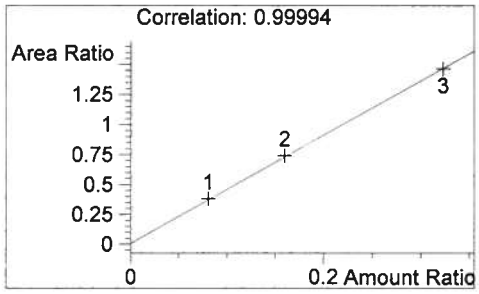
11/2/2011 10:30:40 AM
Instrument 1
DB-ALC1

NEG CTRL - DC
Dawn Cox

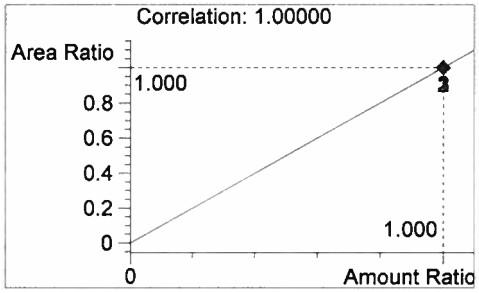
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2642	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11046

DC

WSP-TLD **COMBINED SIMULATOR SOLUTION PREPARATION WORKSHEET**

FILE A COPY IN THE BATCH FILE FOR EACH SOLUTION LISTED ON THE WORKSHEET

Preparation Date: 10-31-2011 Initials of Preparer: RF

Expiration Date: 10-31-2012

Lot # of 200-proof Ethanol used in preparation: ZW0039

Date the 200-proof Ethanol bottle was opened: 10-13-2011

After opening, each bottle of 200-proof Ethanol is approved for use for 6 months unless an extension is approved by the State Toxicologist. This timeframe applies to the 200-proof Ethanol only, not to simulator solutions which have a 1 year expiration.

Simulator Solution	Volume of Ethanol (mL)	Volume of Deionized Water (L)		Batch Number
QAP 0.04	11.2	18	✓	11046
QAP 0.08	22.4	18	✓	11047
QAP 0.10	28.1	18	✓	11048
QAP 0.15	42.0	18	✓	11049
ESS	66.5	52		

Stir bar is rotating	✓	
Stirred for minimum 30 minutes; 2 hours for ESS	✓	
Spigot purged	✓	
Aliquot taken	✓	
Batch labeled, packaged and sealed	✓	10-31-2011 Date

If different ethanol lot numbers are used in the preparation of solutions, record them and the corresponding solution batch numbers in the comments section.

Comments:

Analyst Signature

10-31-2011
Date