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

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

QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 17009

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: 0.08 g/210L
DATE PREPARED: 01/15/2017
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Brittany Thomas

	BT	KH	DN
1	0.099	0.100	0.102
2	0.099	0.100	0.103
3	0.099	0.102	0.102
4	0.099	0.102	0.101
5	0.099	0.102	0.102
C	0.100	0.101	0.103

ETHANOL CONTROL INFORMATION
LOT NUMBER: FN08051301 EXPIRATION: 10/2018 CONCENTRATION: 0.10 g/100mL

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.1007 g/100mL
STANDARD DEVIATION: 0.00149
PRECISION CV (%): 1.48
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0819 g/210L**
EXPANDED UNCERTAINTY: ± 0.0024 (k=2, 95.45% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Brianne E. O'Reilly Technical Lead

2.1.2017
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
BT	Brittany Thomas	Brittany Thomas	01/15/2017
KH	Katie Harris	Katie Harris	01/15/2017
DN	David Nguyen		01/18/2017

Washington State Patrol Toxicology Laboratory Division

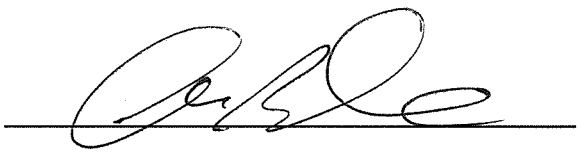
SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 2-2-17

Location: WSP-FLSB Seattle, WA Solution Batch Number: 17009

	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:  Date: 2-2-17

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

QAP Solution Batch #: 17009 **Date Prepared:** 1/15/2017

Analyst:	BT	KH	DN
Date Tested:	1/15/2017	1/15/2017	1/18/2017
Instrument:	HSGC 1	HSGC 1	HSGC 1
1	0.099	0.100	0.102
2	0.099	0.100	0.103
3	0.099	0.102	0.102
4	0.099	0.102	0.101
5	0.099	0.102	0.102
C	0.100	0.101	0.103

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000145165	0.0000757445	0.0001016326

Ethanol Control Lot #: FN08051301
Control Uncertainty (%): 0.29

Average Solution Concentration: 0.1007 g/100mL
Standard Deviation: 0.00149 g/100mL
Precision CV (%): 1.48
Equivalent Vapor Concentration: 0.0819 g/210L
Combined Standard Uncertainty (±): 0.0012 g/210L
Expanded Uncertainty (±): 0.0024 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Brianne E. O'Reilly (Name) Brianne E O'Reilly (Signature) 1.31.17 (Date)

Calculations verified by: Amanda M. Black (Name) (Signature) 2.2.17 (Date) Method: Hand calculation

Tech. review performed by: Brianne E. O'Reilly (Name) Brianne E O'Reilly (Signature) 1.31.17 (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 Chandler		
Andrew Gingras		
Asa Louis		
Brittany Thomas	BT	2/1/17
Christie Mitchell-Mata		
Christopher Johnston		
David Nguyen	DN	2/1/17
Dawn Sklerov		
Elizabeth Wehner		
Justin Knoy		
Katie Harris	KH	2/1/17
Lyndsey Knoy		
Naziha Nuwayhid		
Rebecca Flaherty		

Batch # 17009

RWO 1.31.17

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

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

0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 17009

I, Brittany Thomas, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS degree in Biology and a Masters in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 17009, was prepared in the Washington State Toxicology Laboratory on 1/15/2017. I tested this solution and 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 1/15/2018.

Seattle, WA

Brittany Thomas 2/1/17

Brittany Thomas Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
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0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 17009

I, Katie Harris, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

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

The quality assurance procedure (QAP) solution, Lot Number 17009, was prepared in the Washington State Toxicology Laboratory on 1/15/2017. I tested this solution and 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 1/15/2018.

Seattle, WA

Katie Harris 2/1/17

Katie Harris Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
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0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 17009

I, David Nguyen, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS degree in Chemistry.

The quality assurance procedure (QAP) solution, Lot Number 17009, was prepared in the Washington State Toxicology Laboratory on 1/15/2017. I tested this solution and 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 1/15/2018.

Seattle, WA

David Nguyen — 2/1/17
Date

Forensic Scientist

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

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

Preparation Date: 1/15/2017 Expiration Date: 1/15/2018 Initials of Preparer: BT

Lot # of 200-proof Ethanol used in preparation: 2FE0139

Date the 200-proof Ethanol bottle was opened: 1/7/17

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.

Environmental conditions verified as acceptable: ☑

Simulator Solution	Volume of Ethanol (mL)	Volume of Deionized Water (L)		Batch Number
QAP 0.04	11.2	18	☐	
QAP 0.08	22.4	18	☑	17009
QAP 0.10	28.1	18	☐	
QAP 0.15	42.1	18	☑	17008
QAP 0.20	56.1	18	☑	17007
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 ☑ 1/15/17 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: more than two values out for batch 17008 Batch not bottled or used for calibration activities (disposed) BT 1/18/17

Analyst Signature [signature] Date 1/15/17

17009
BWO 1.31.17

Sequence: C:\HPCHEM\1\SEQUENCE\BTQAP1.S

Sequence Parameters:

Operator:	Brittany Thomas
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:	170115BT
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

CAL 1 (0.079g/100mL) - LOT# E0915-01 - EXP 3/15/2017
CAL 2 (0.158g/100mL) - LOT# E0915-02 - EXP 3/15/2017
CAL 3 (0.316g/100mL) - LOT# E0915-03 - EXP 3/15/2017
CTRL 1 (0.04g/100mL) - LOT# FN12181501 - EXP 12/2020
CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
CTRL 3 (0.20g/100mL) - LOT# FN08101505 - EXP 02/2021
n-Propanol ISTD - LOT# P1116 - Exp 02/23/2017

Standard data located in Batch File 17007

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-BT	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL-BT	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL-BT	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL-BT	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL-BT	SIMALC1	1	Ctrl Samp		
10	Vial 10	QAP0.20 17007 #1	SIMALC1	1	Sample		
11	Vial 11	QAP0.20 17007 #2	SIMALC1	1	Sample		
12	Vial 12	QAP0.20 17007 #3	SIMALC1	1	Sample		
13	Vial 13	QAP0.20 17007 #4	SIMALC1	1	Sample		
14	Vial 14	QAP0.20 17007 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL-BT	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL-BT	SIMALC1	1	Ctrl Samp		
17	Vial 17	QAP0.15 17008 #1	SIMALC1	1	Sample		
18	Vial 18	QAP0.15 17008 #2	SIMALC1	1	Sample		
19	Vial 19	QAP0.15 17008 #3	SIMALC1	1	Sample		
20	Vial 20	QAP0.15 17008 #4	SIMALC1	1	Sample		
21	Vial 21	QAP0.15 17008 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL-BT	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL-BT	SIMALC1	1	Ctrl Samp		
24	Vial 24	QAP0.08 17009 #1	SIMALC1	1	Sample		
25	Vial 25	QAP0.08 17009 #2	SIMALC1	1	Sample		
26	Vial 26	QAP0.08 17009 #3	SIMALC1	1	Sample		

17009
BW 1.31.17

BT

Sequence: C:\HPCHEM\1\SEQUENCE\BTQAP1.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
27	Vial 27	QAP0.08 17009 #4	SIMALC1	1	Sample		
28	Vial 28	QAP0.08 17009 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL-BT	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL-BT	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!

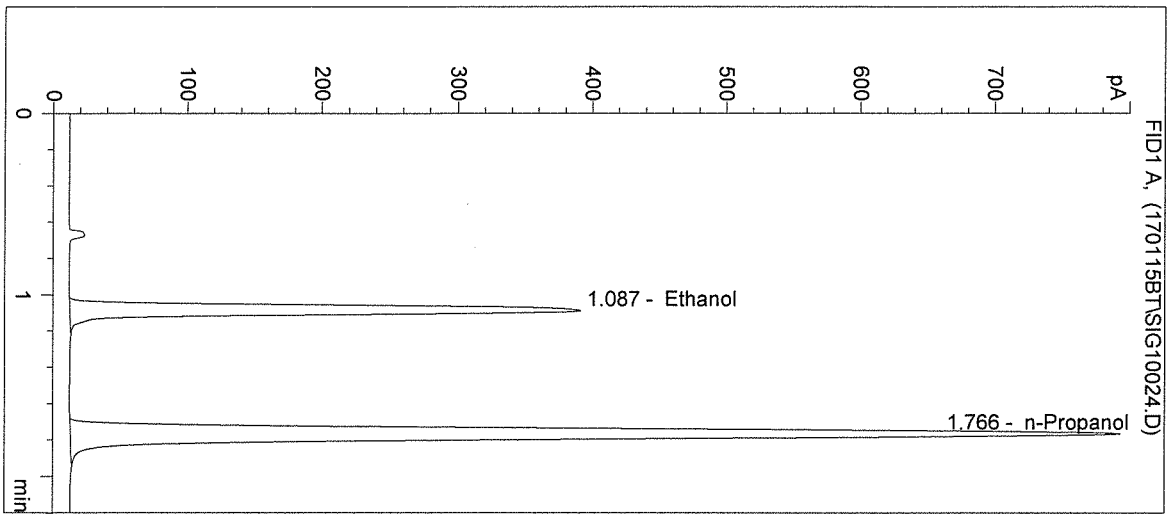
17009
BW01.31.17

BT

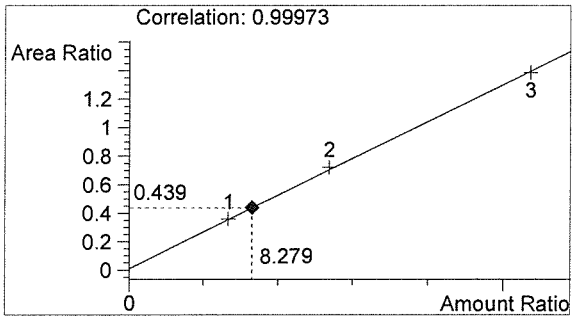
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 10:31:53 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #1
Operator: Brittany Thomas
Location: Vial 24

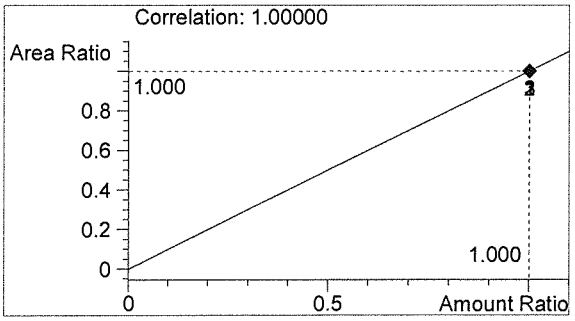


#	Compound	Peak Area	RT (min)
1	Ethanol	1301	1.087
2	n-Propanol	2964	1.766



Ethanol 0.099 g/100mL

BWO



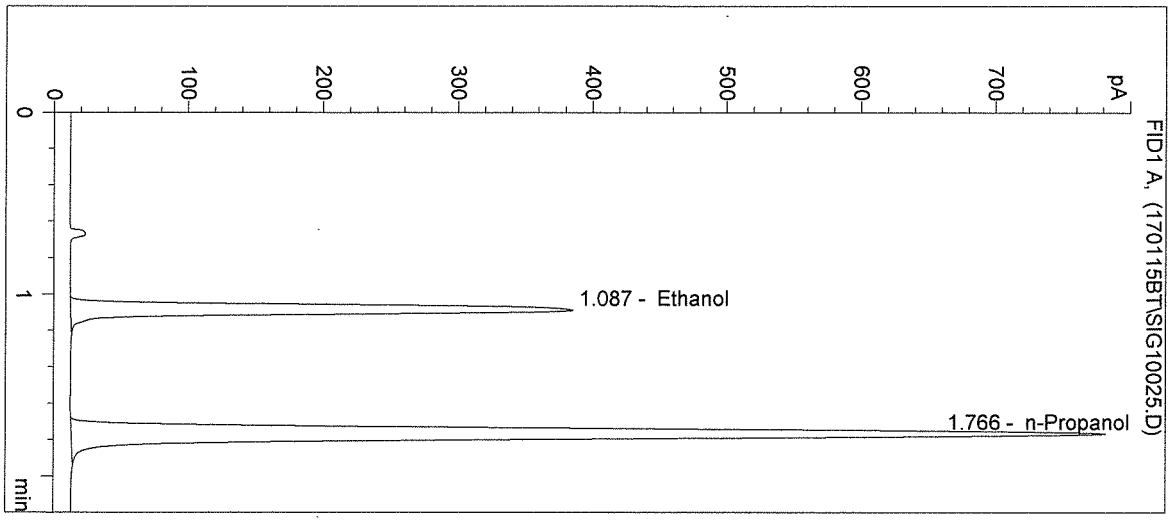
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170115BT\SIG10024.D

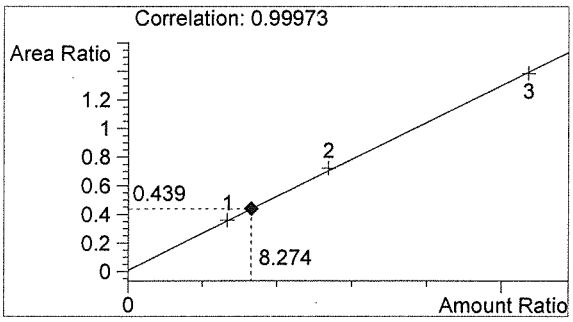
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 10:35:06 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #2
Operator: Brittany Thomas
Location: Vial 25

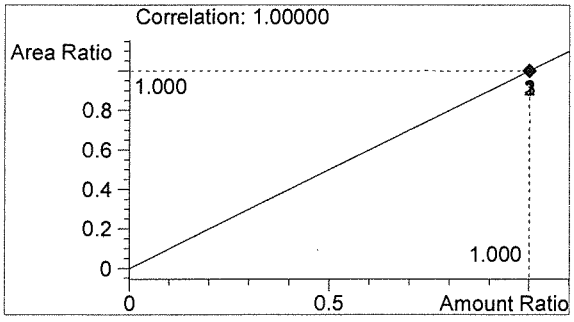


#	Compound	Peak Area	RT (min)
1	Ethanol	1279	1.087
2	n-Propanol	2915	1.766



Ethanol 0.099 g/100mL

BLW



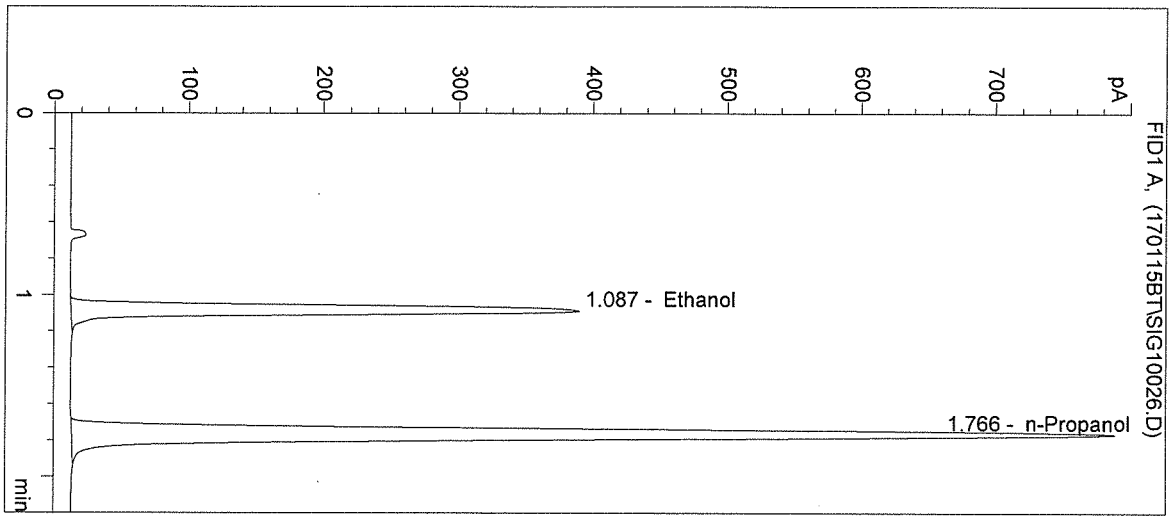
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170115BT\SIG10025.D

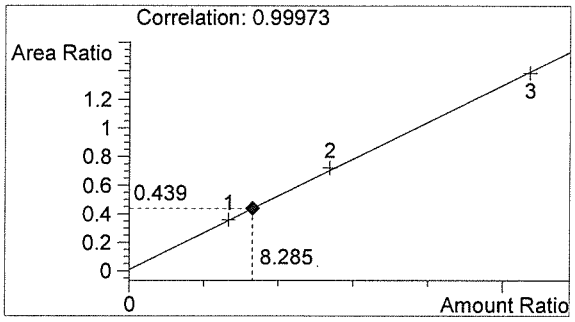
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 10:38:19 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #3
Operator: Brittany Thomas
Location: Vial 26

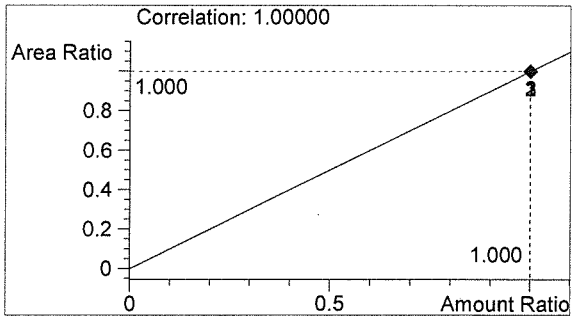


#	Compound	Peak Area	RT (min)
1	Ethanol	1296	1.087
2	n-Propanol	2950	1.766



Ethanol 0.099 g/100mL

RWO



n-Propanol 0.012 g/100mL

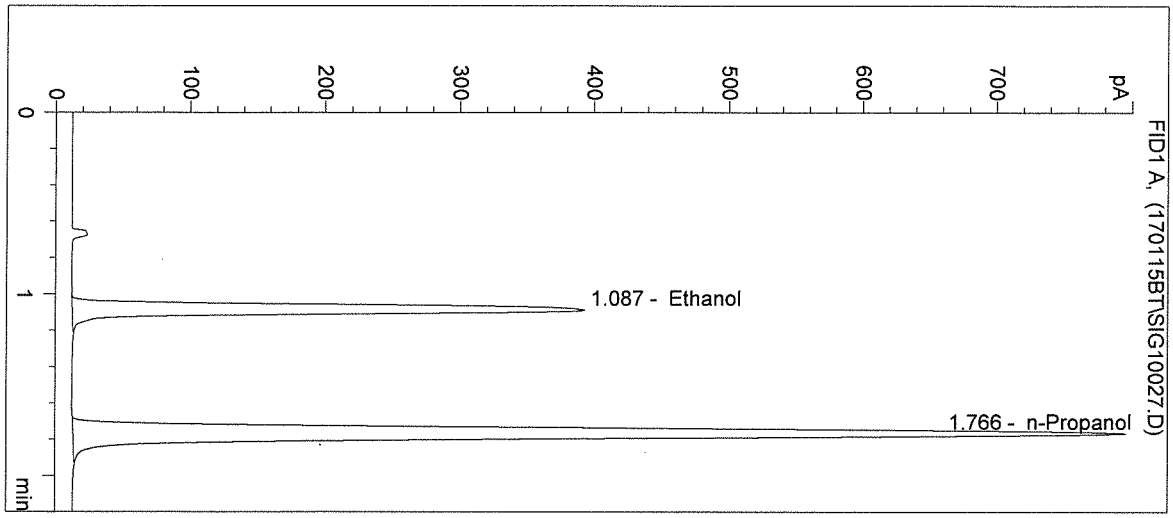
BOT

Data File: C:\HPCHEM\1\DATA\170115BT\SIG10026.D

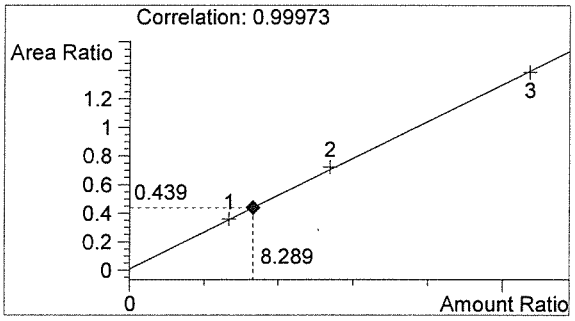
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 10:41:32 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #4
Operator: Brittany Thomas
Location: Vial 27

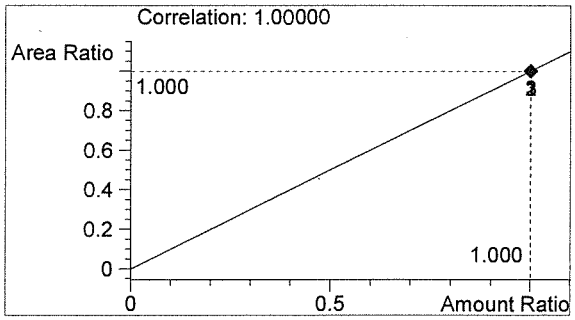


#	Compound	Peak Area	RT (min)
1	Ethanol	1305	1.087
2	n-Propanol	2971	1.766



Ethanol 0.099 g/100mL

RWO



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170115BT\SIG10027.D

Washington State Patrol Toxicology Laboratory
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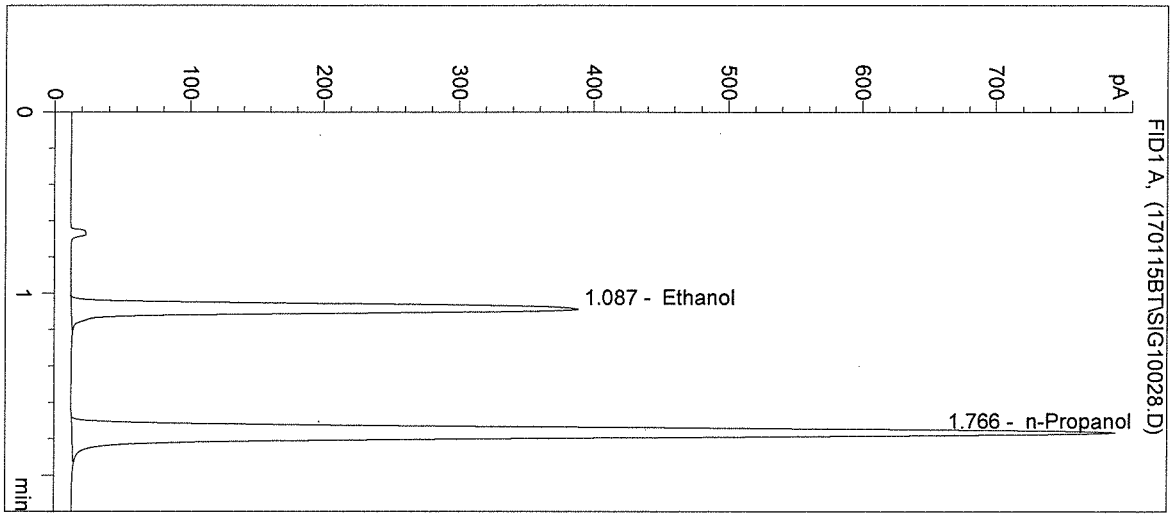
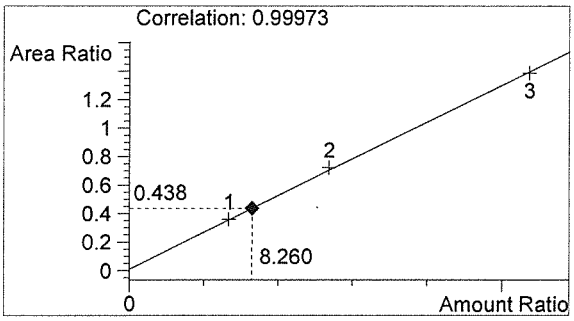
Inj. Date: 1/15/2017 10:44:45 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #5
Operator: Brittany Thomas
Location: Vial 28

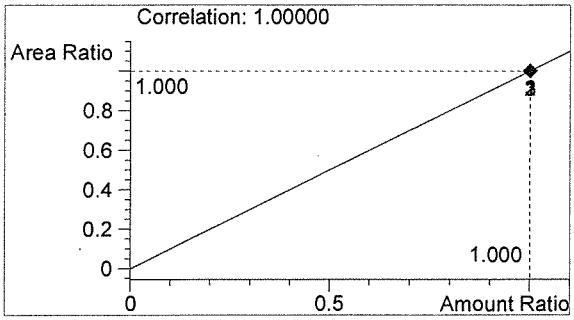


#	Compound	Peak Area	RT (min)
1	Ethanol	1287	1.087
2	n-Propanol	2939	1.766



Ethanol 0.099 g/100mL

BWO



n-Propanol 0.012 g/100mL

MT

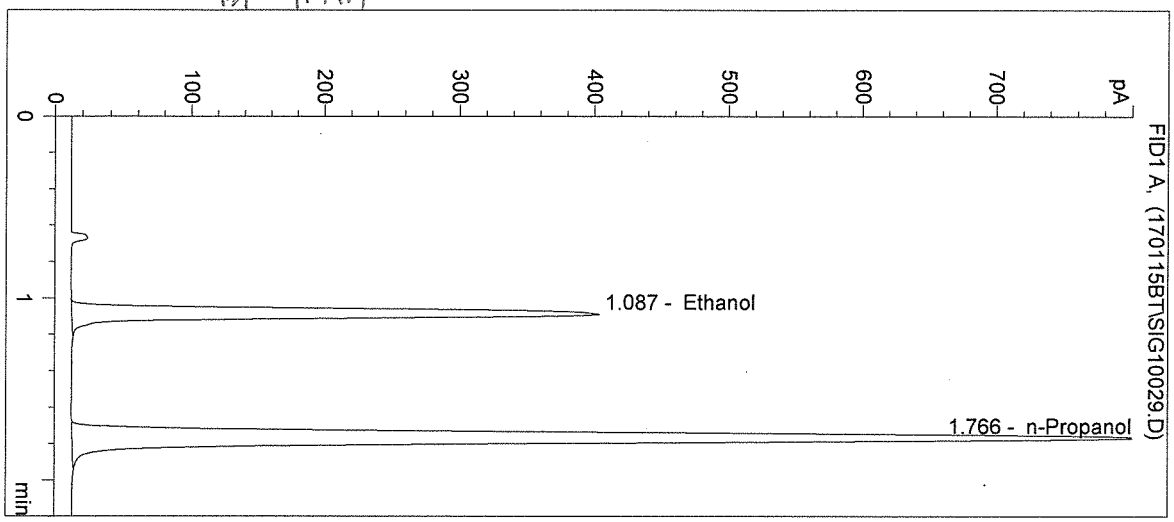
Data File: C:\HPCHEM\1\DATA\170115BT\SIG10028.D

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

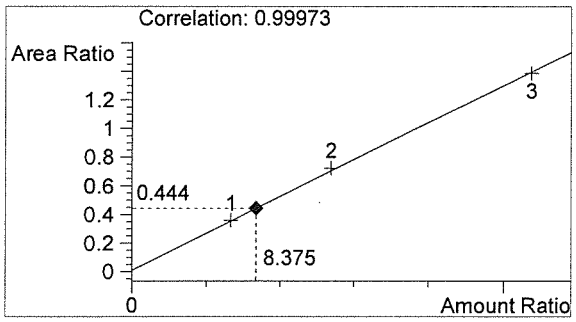
Inj. Date: 1/15/2017 10:48:01 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: ~~15030~~ 17009

Sample Name: 0.10 CTRL-BT
Operator: Brittany Thomas
Location: Vial 29

BT 1/17/17

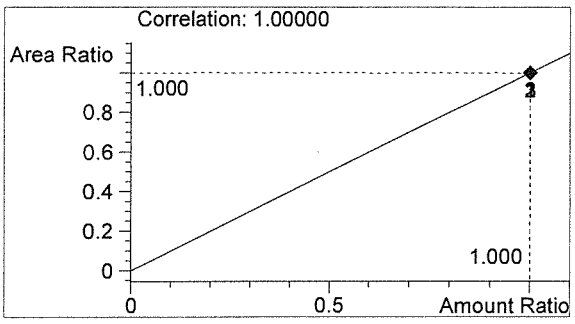


#	Compound	Peak Area	RT (min)
1	Ethanol	1348	1.087
2	n-Propanol	3038	1.766



Ethanol 0.100 g/100mL

BWO



n-Propanol 0.012 g/100mL

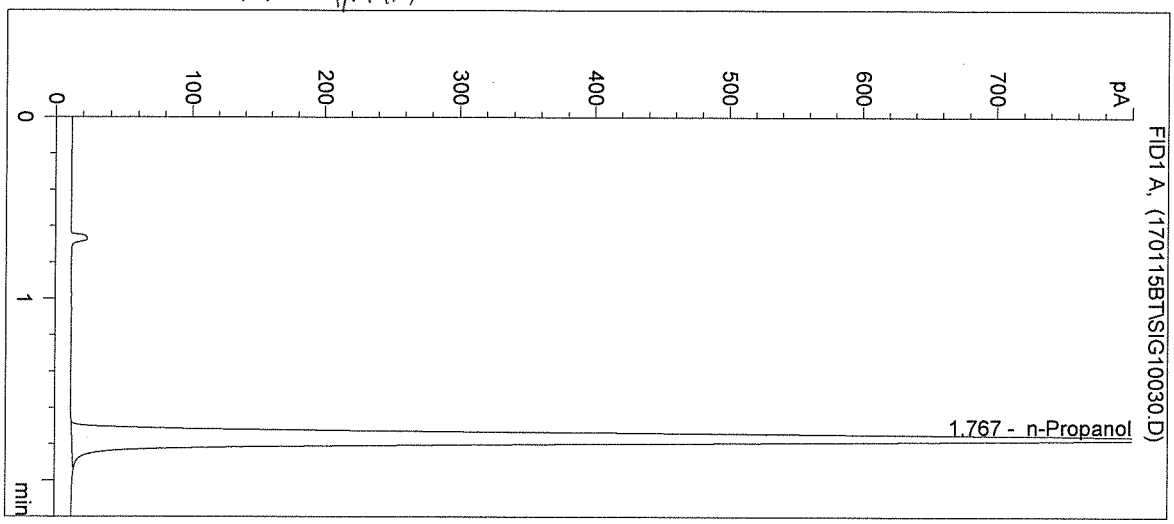
BT

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

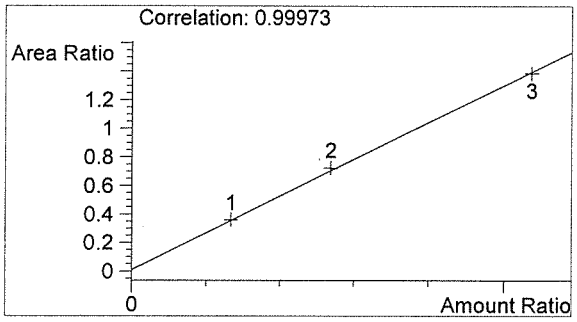
Inj. Date: 1/15/2017 10:51:12 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: ~~15030~~ 17009

Sample Name: NEG CTRL-BT
Operator: Brittany Thomas
Location: Vial 30

BT 1/17/17

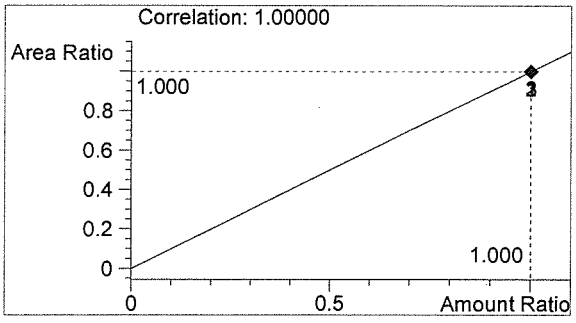


#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	3185	1.767



Ethanol 0.000 g/100mL

BLO



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170115BT\SIG10030.D

BT

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

Sequence Parameters:

Operator:	Katie Harris
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:	170115KH
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
CAL 1 (0.079g/100mL) - LOT# E0916-01 - EXP 3/15/2017
CAL 2 (0.158g/100mL) - LOT# E0916-02 - EXP 3/15/2017
CAL 3 (0.316g/100mL) - LOT# E0916-03 - EXP 3/15/2017
CTRL 1 (0.04g/100mL) - LOT# FN12181501 - EXP 12/2020
CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
CTRL 3 (0.20g/100mL) - LOT# FN08101505 - EXP 02/2021
n-Propanol ISTD - LOT# P1116 - Exp 02/23/2017

Standard data located in Batch File 17007

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	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	QAP0.20 17007 #1	SIMALC1	1	Sample		
11	Vial 11	QAP0.20 17007 #2	SIMALC1	1	Sample		
12	Vial 12	QAP0.20 17007 #3	SIMALC1	1	Sample		
13	Vial 13	QAP0.20 17007 #4	SIMALC1	1	Sample		
14	Vial 14	QAP0.20 17007 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		
17	Vial 17	QAP0.08 17009 #1	SIMALC1	1	Sample		
18	Vial 18	QAP0.08 17009 #2	SIMALC1	1	Sample		
19	Vial 19	QAP0.08 17009 #3	SIMALC1	1	Sample		
20	Vial 20	QAP0.08 17009 #4	SIMALC1	1	Sample		
21	Vial 21	QAP0.08 17009 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		

17009
BW 1.31.17

Calibration Part:

KH

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

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!

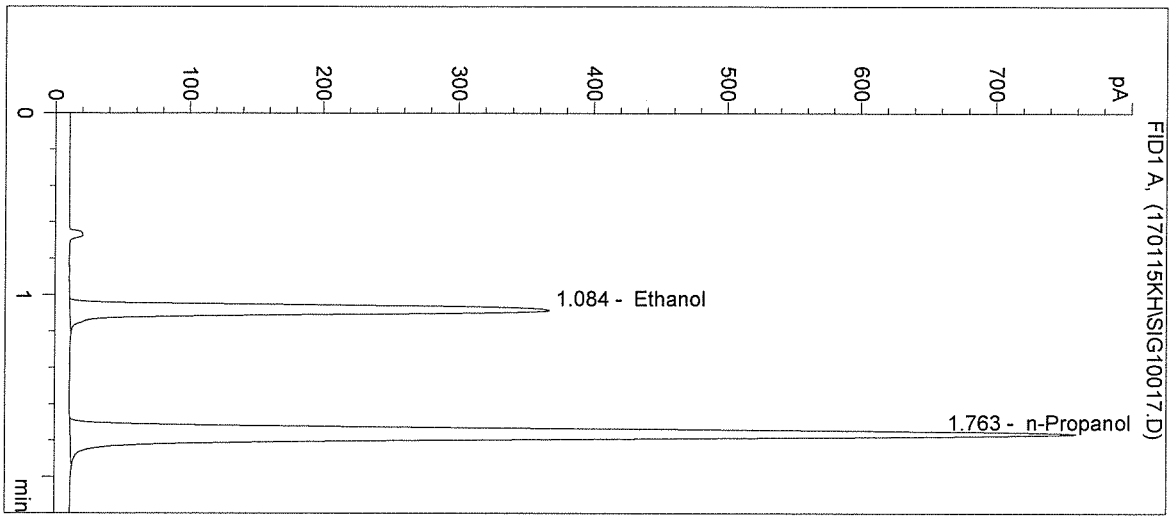
17009
BLO 1-31-17

KH

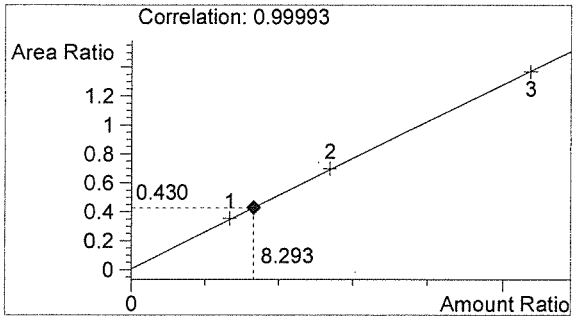
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 12:21:08 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #1
Operator: Katie Harris
Location: Vial 17

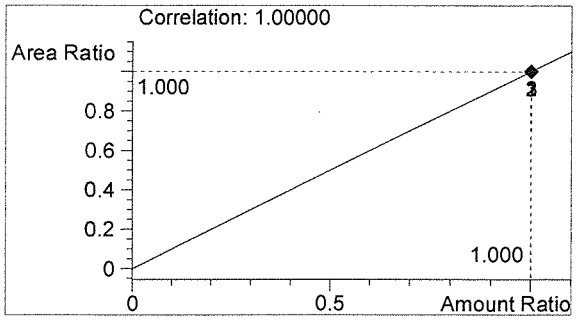


#	Compound	Peak Area	RT (min)
1	Ethanol	1213	1.084
2	n-Propanol	2821	1.763



Ethanol 0.100 g/100mL

BWO



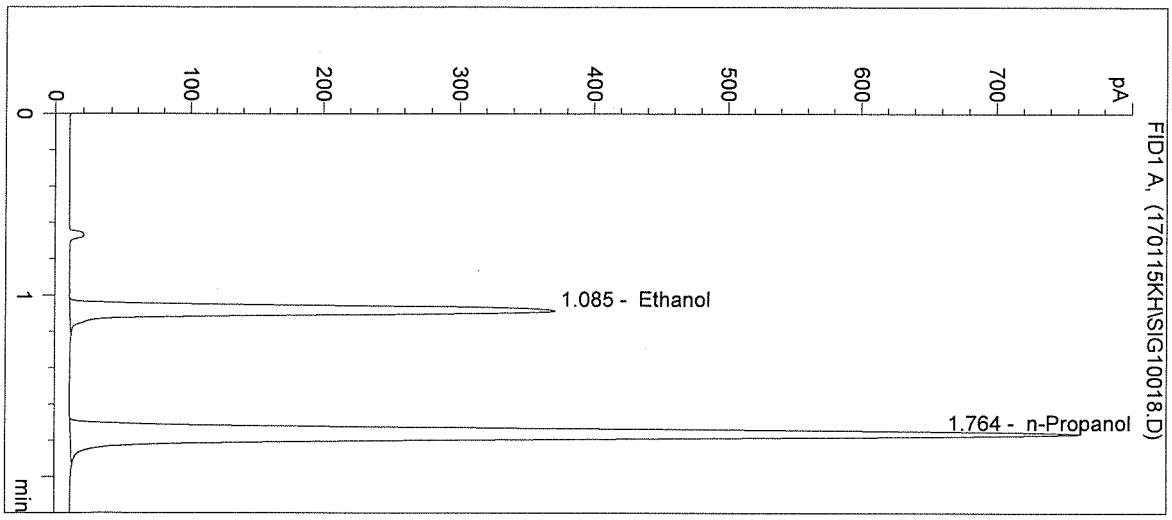
n-Propanol 0.012 g/100mL

KH

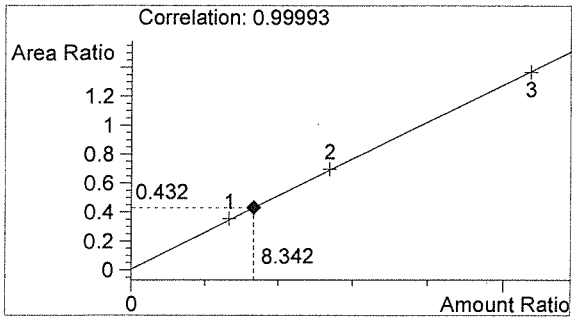
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 12:24:21 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #2
Operator: Katie Harris
Location: Vial 18

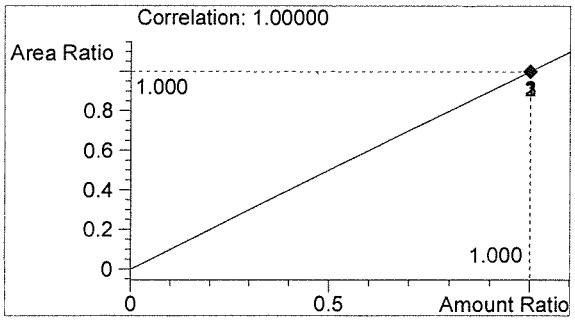


#	Compound	Peak Area	RT (min)
1	Ethanol	1227	1.085
2	n-Propanol	2836	1.764



Ethanol 0.100 g/100mL

BUO



n-Propanol 0.012 g/100mL

KH

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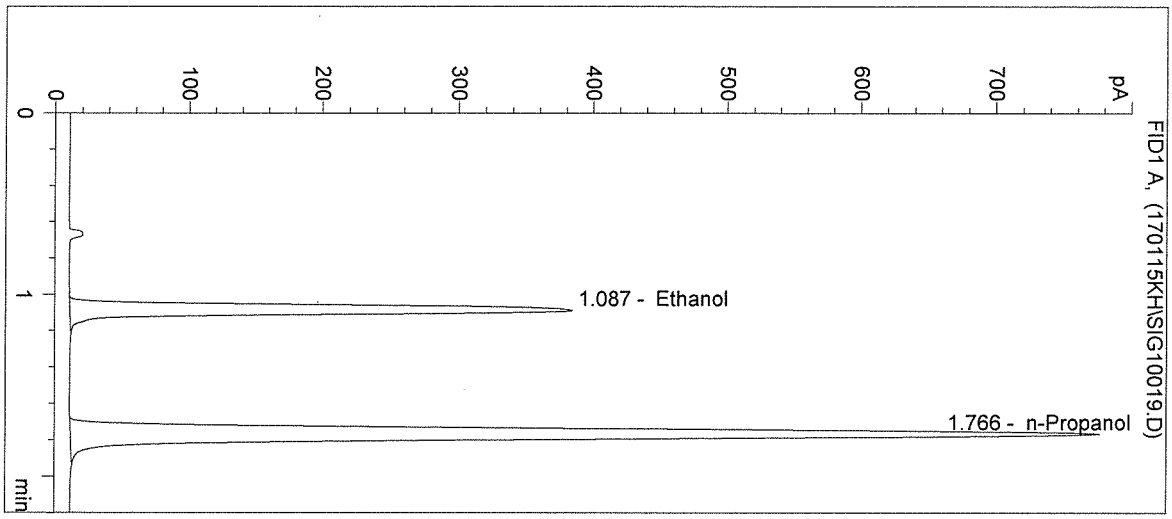
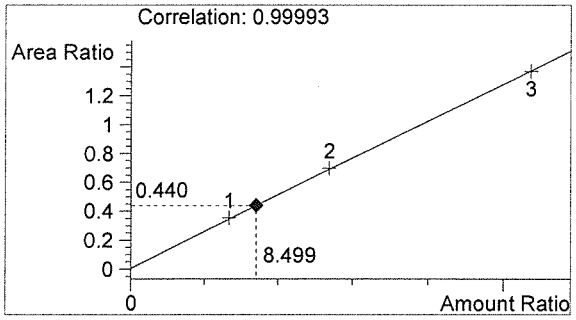
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 12:27:34 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #3
Operator: Katie Harris
Location: Vial 19

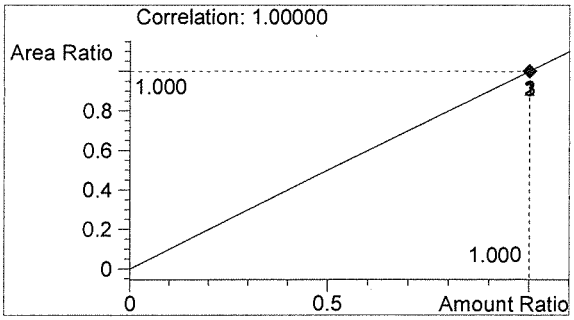


#	Compound	Peak Area	RT (min)
1	Ethanol	1280	1.087
2	n-Propanol	2905	1.766



Ethanol 0.102 g/100mL

RWO



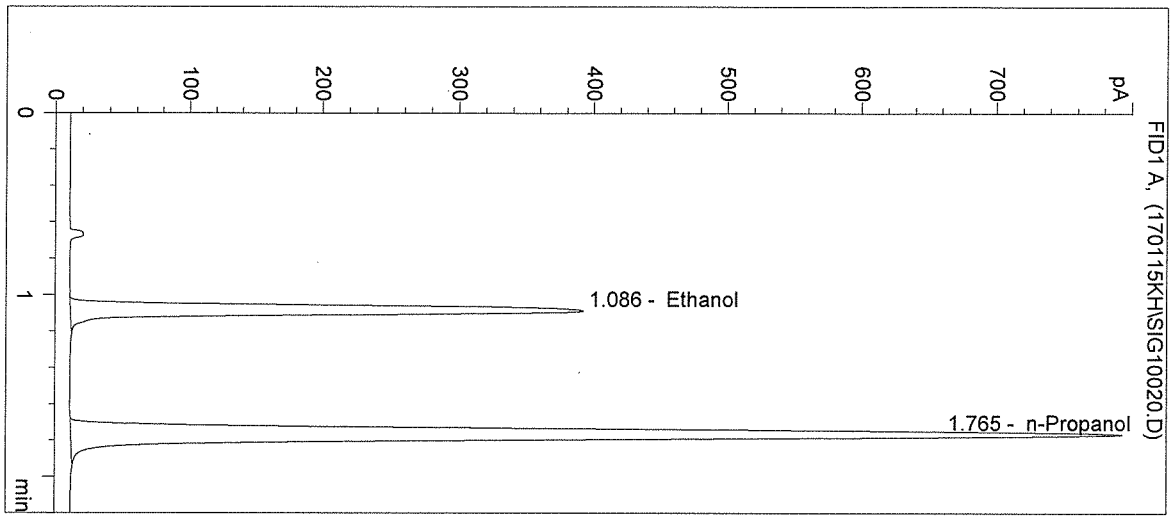
n-Propanol 0.012 g/100mL

KH

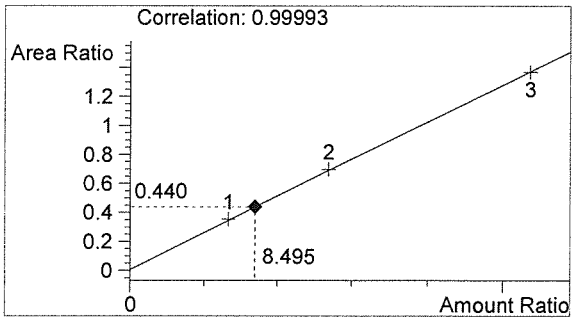
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 12:30:47 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: QAP0.08 17009 #4
Operator: Katie Harris
Location: Vial 20

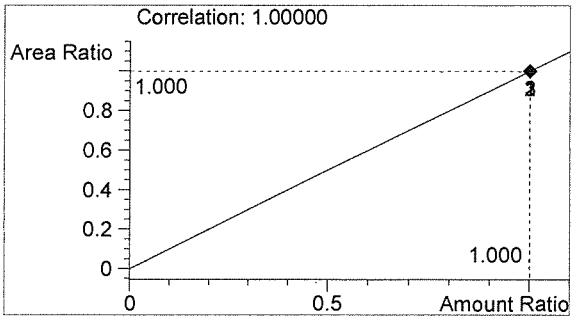


#	Compound	Peak Area	RT (min)
1	Ethanol	1307	1.086
2	n-Propanol	2968	1.765



Ethanol 0.102 g/100mL

BWO



n-Propanol 0.012 g/100mL

KH

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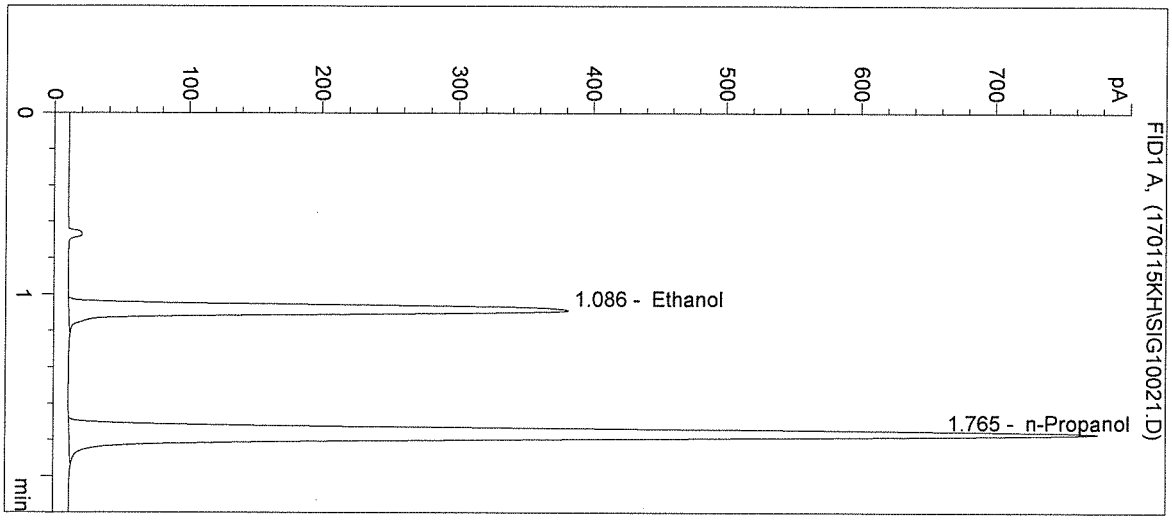
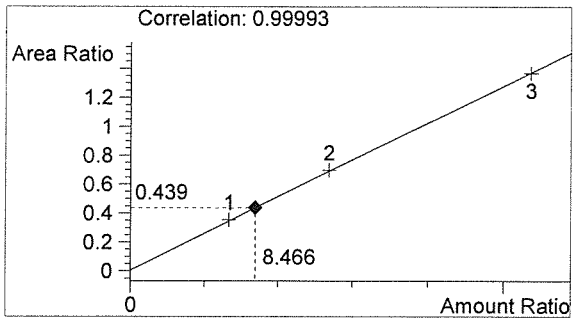
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 12:34:02 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

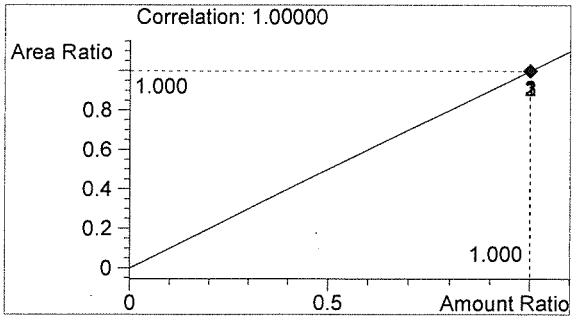
Sample Name: QAP0.08 17009 #5
Operator: Katie Harris
Location: Vial 21



#	Compound	Peak Area	RT (min)
1	Ethanol	1273	1.086
2	n-Propanol	2902	1.765



Ethanol 0.102 g/100mL

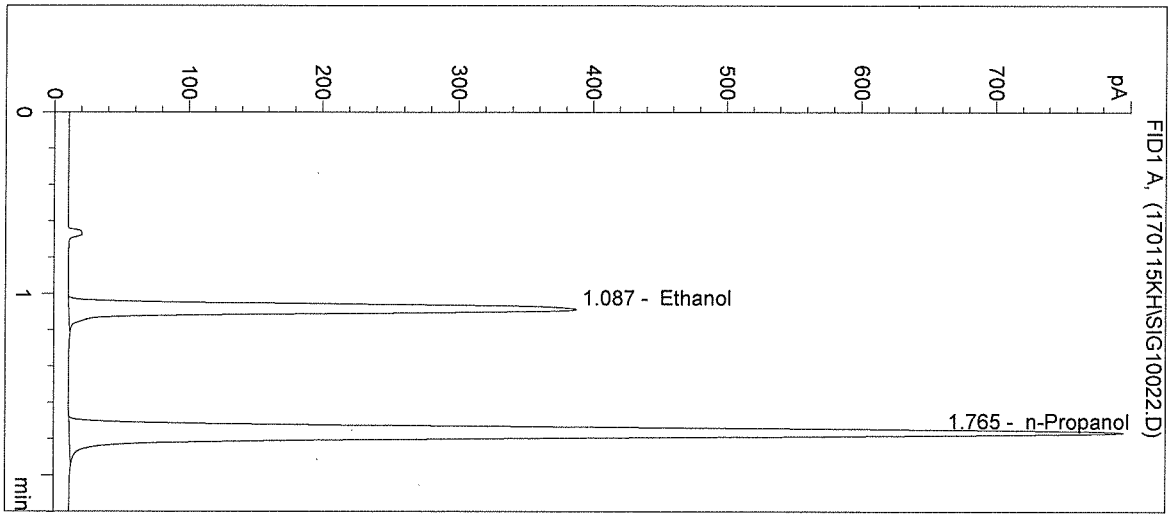


n-Propanol 0.012 g/100mL

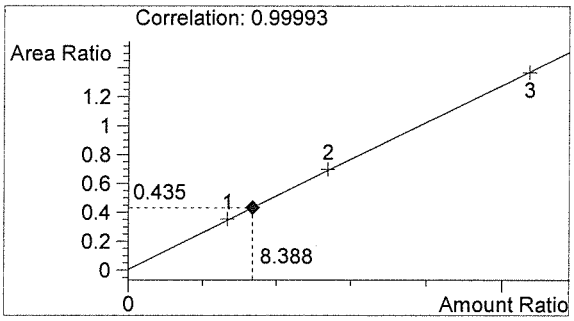
KH

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

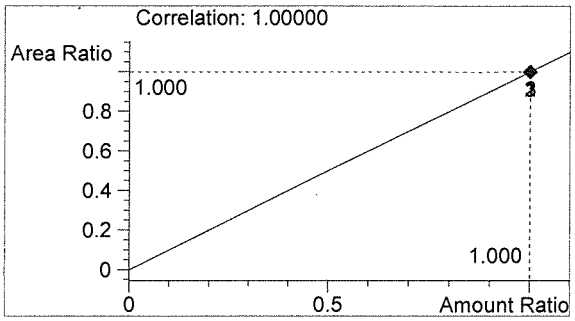
Inj. Date: 1/15/2017 12:37:13 PM Sample Name: 0.10 CTRL
Instrument: HSGC#1 Operator: Katie Harris
Column: DB-ALC1 Location: Vial 22
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17009



#	Compound	Peak Area	RT (min)
1	Ethanol	1295	1.087
2	n-Propanol	2978	1.765



Ethanol 0.101 g/100mL



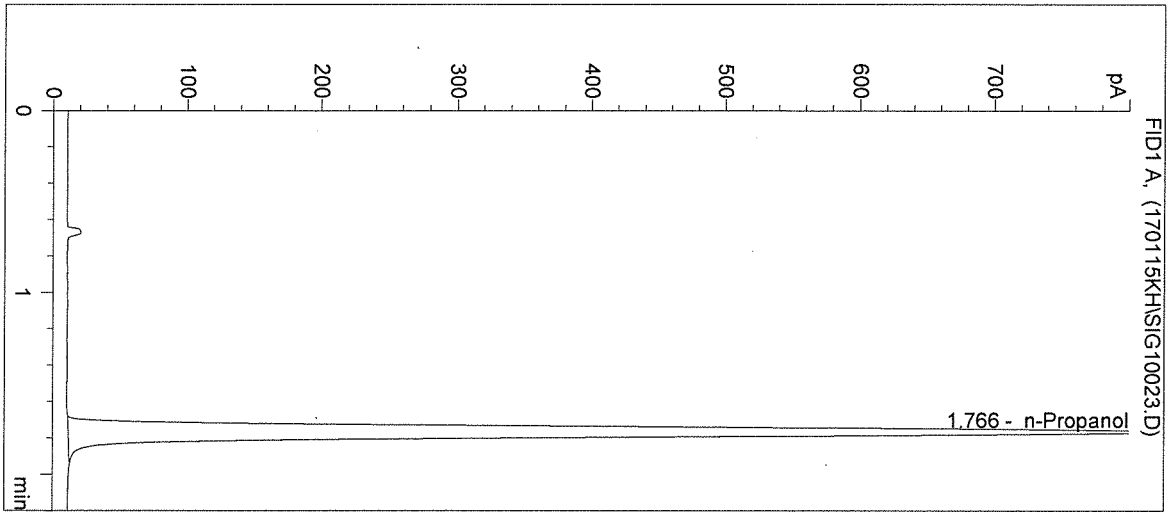
n-Propanol 0.012 g/100mL

KH

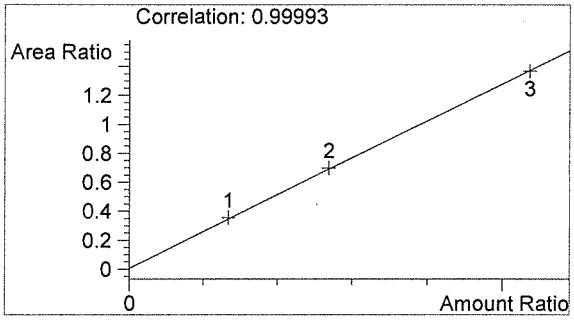
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/15/2017 12:40:27 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17009

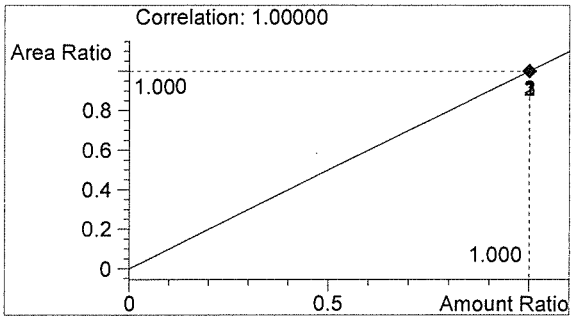
Sample Name: NEG CTRL
Operator: Katie Harris
Location: Vial 23



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	3106	1.766



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170115KH\SIG10023.D

Sequence: C:\HPCHEM\1\SEQUENCE\DN-QAP.S

Sequence Parameters:

Operator:	David Nguyen
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:	170118DN
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
CAL 1: 0.079 g/100mL - Lot: E0916-01 - X: 03/15/17
CAL 2: 0.158 g/100mL - Lot: E0916-02 - X: 03/15/17
CAL 3: 0.316 g/100mL - Lot: E0916-03 - X: 03/15/17

CTRL 1: 0.04 g/100mL - Lot: FN12181501 - X: 12/2020
CTRL 2: 0.10 g/100mL - Lot: FN08051301 - X: 10/2018
CTRL 3: 0.20 g/100mL - Lot: FN08101505 - X: 02/2021

n-Propanol ISTD - Lot: P1116 - X: 02/23/17

Calibration vials 1-9 filed with 17009.

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	CAL 1 (0.079)	SIMALC1	1	Calib		
3	Vial 3	CAL 2 (0.158)	SIMALC1	1	Calib		
4	Vial 4	CAL 3 (0.316)	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL	SIMALC1	1	Ctrl Samp		
6	Vial 6	CTRL 1 (0.04)	SIMALC1	1	Ctrl Samp		
7	Vial 7	CTRL 2 (0.10)	SIMALC1	1	Ctrl Samp		
8	Vial 8	CTRL 3 (0.20)	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	17009 #1	SIMALC1	1	Sample		
11	Vial 11	17009 #2	SIMALC1	1	Sample		
12	Vial 12	17009 #3	SIMALC1	1	Sample		
13	Vial 13	17009 #4	SIMALC1	1	Sample		
14	Vial 14	17009 #5	SIMALC1	1	Sample		
15	Vial 15	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		

BWO

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	CAL 1 (0.079)	SIMALC1	1	Replace	Replace	

DN

Sequence: C:\HPCHEM\1\SEQUENCE\DN-QAP.S

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

Sequence Table (Back Injector):

No entries - empty table!

17009
BWO 1.31.17

DN

Method C:\HPCHEM\1\METHODS\SIMALC1.M

Calibration Table

Calib. Data Modified : Wednesday, January 18, 2017 9:24:28 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
Multiplier : 1.0000
Dilution : 1.0000
Sample Amount : 0.00000
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

Sample ISTD Information:

ISTD #	ISTD Amount [g/100mL]	Name
1	1.20000e-2	n-Propanol

Signal 1: FID1 A,

RetTime [min]	Sig	Lvl	Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.085	1	1	8.00100e-2	994.23730	8.04737e-5		1	Ethanol
		2	1.61200e-1	2097.20068	7.68644e-5			
		3	3.21790e-1	4068.25000	7.90979e-5			
1.765	1	1	1.20000e-2	2888.54834	4.15434e-6		I1	n-Propanol
		2	1.20000e-2	3017.41382	3.97692e-6			
		3	1.20000e-2	2951.74146	4.06540e-6			

17009
RWO 1.31.17

Peak Sum Table

No Entries in table

DN

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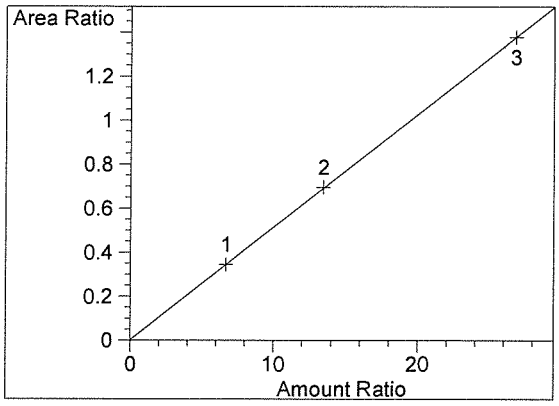
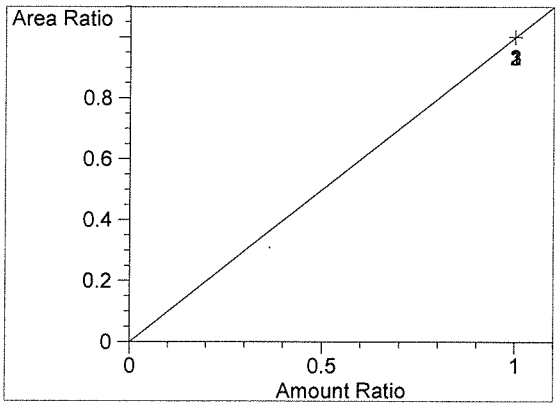
Calibration Curves

==========



Ethanol at exp. RT: 1.085
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 0.00266
Formula: y = mx + b
m: 5.13975e-2
b: 1.52145e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.765
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

==========

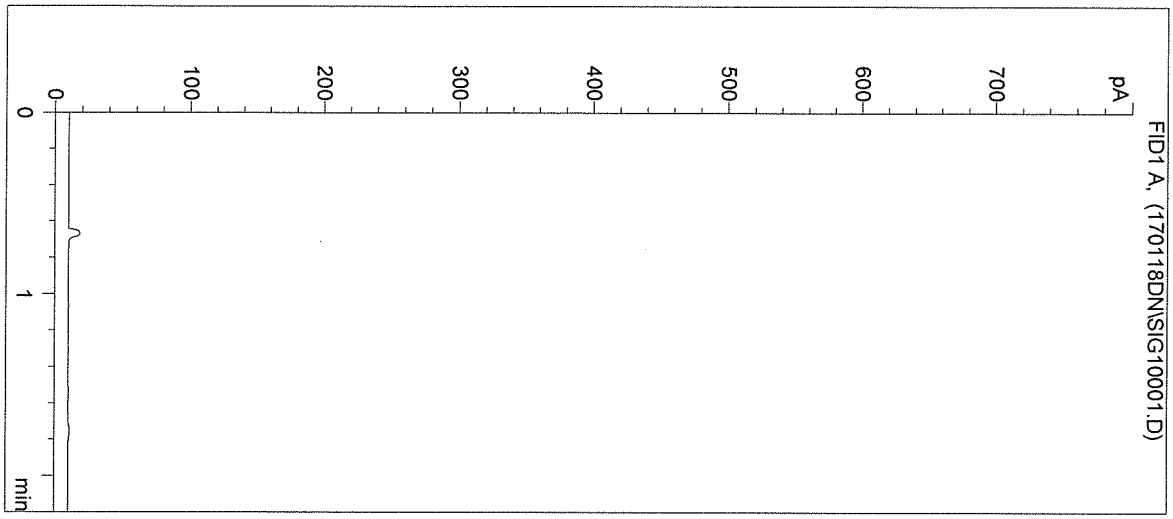
17009
RWO 1.31.17

DN

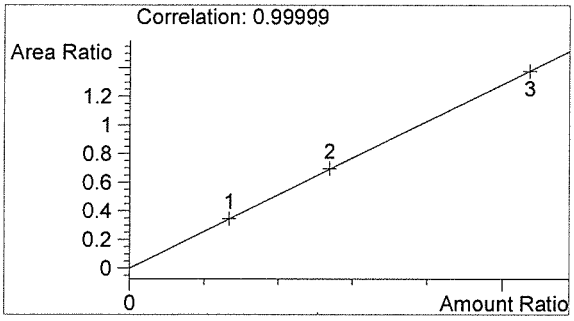
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:12:24 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17009

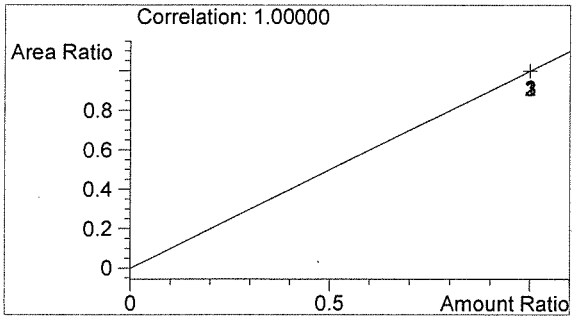
Sample Name: BLANK
Operator: David Nguyen
Location: Vial 1



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	0	0.000



Ethanol 0.000 g/100mL

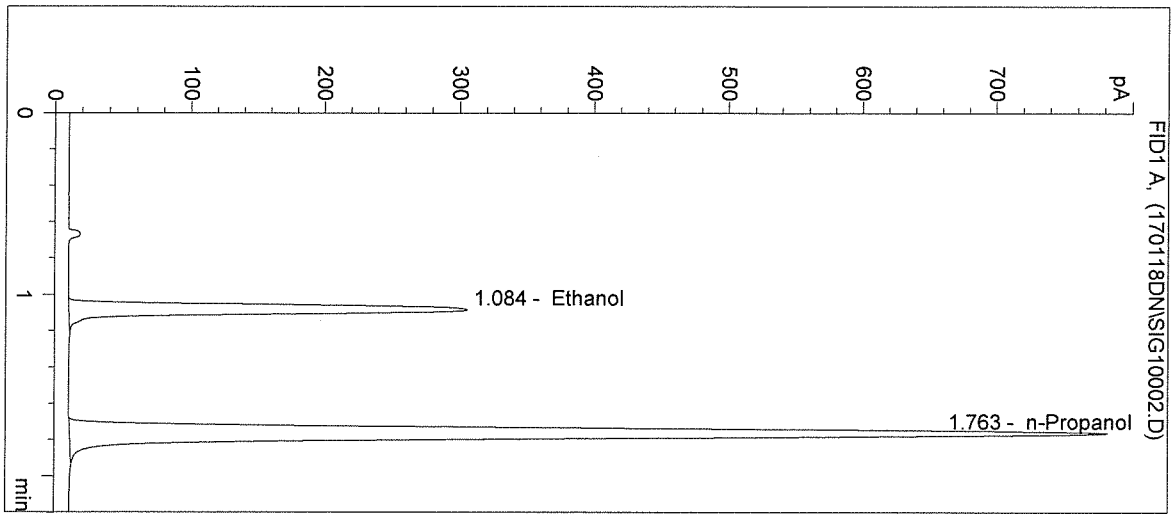


n-Propanol 0.000 g/100mL

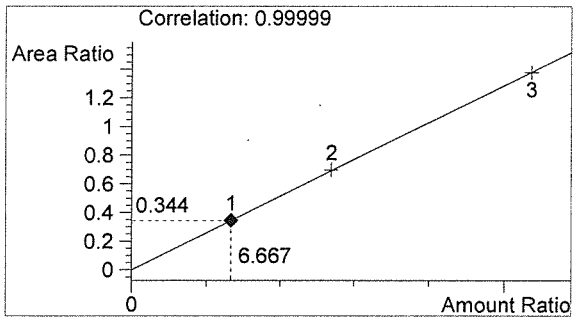
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:15:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 1: 0.079 g/100mL
17009

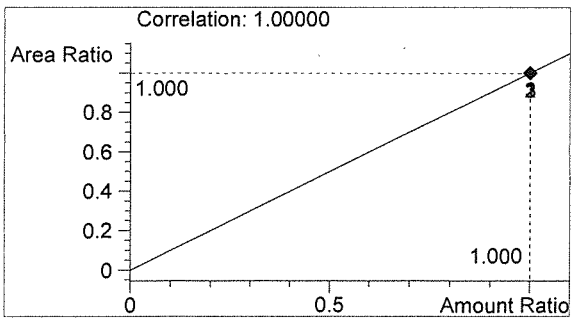
Sample Name: CAL 1 (0.079)
Operator: David Nguyen
Location: Vial 2



#	Compound	Peak Area	RT (min)
1	Ethanol	994	1.084
2	n-Propanol	2889	1.763



Ethanol 0.080 g/100mL



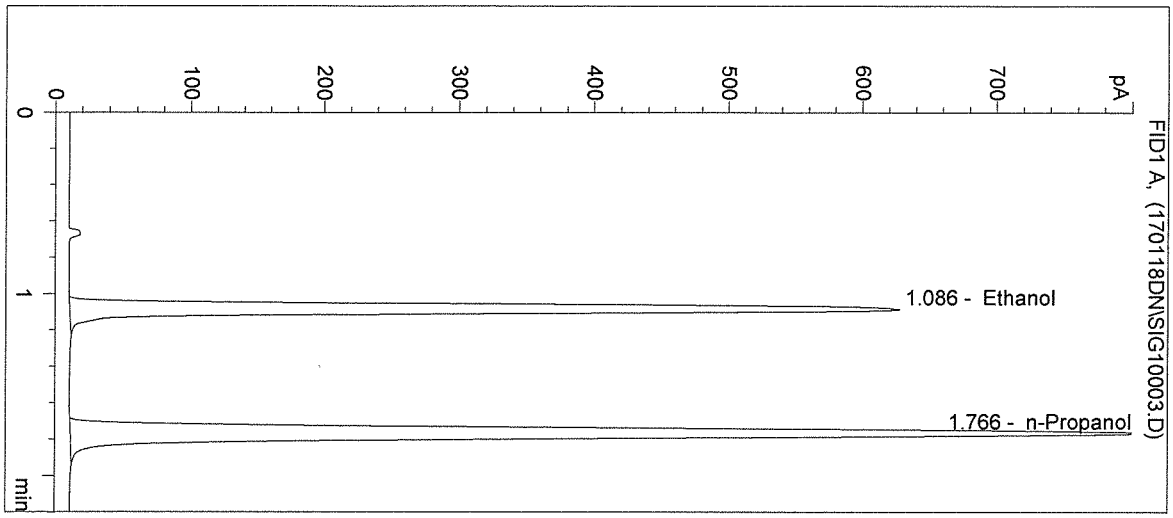
n-Propanol 0.012 g/100mL

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

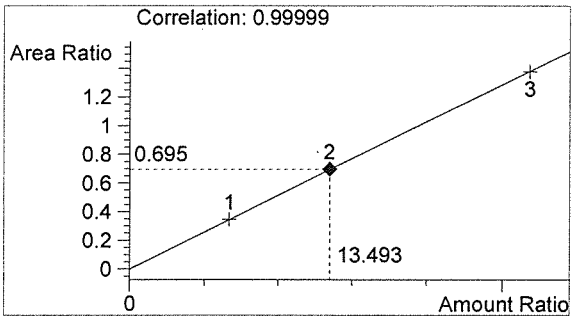
Inj. Date: 1/18/2017 9:18:58 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 2: 0.158 g/100mL
17009

Sample Name: CAL 2 (0.158)
Operator: David Nguyen
Location: Vial 3

->

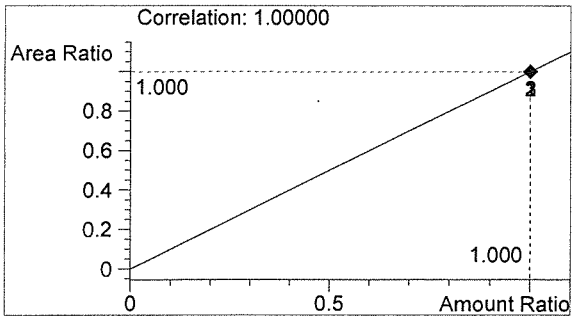


#	Compound	Peak Area	RT (min)
1	Ethanol	2097	1.086
2	n-Propanol	3017	1.766



Ethanol 0.162 g/100mL

BWO



n-Propanol 0.012 g/100mL

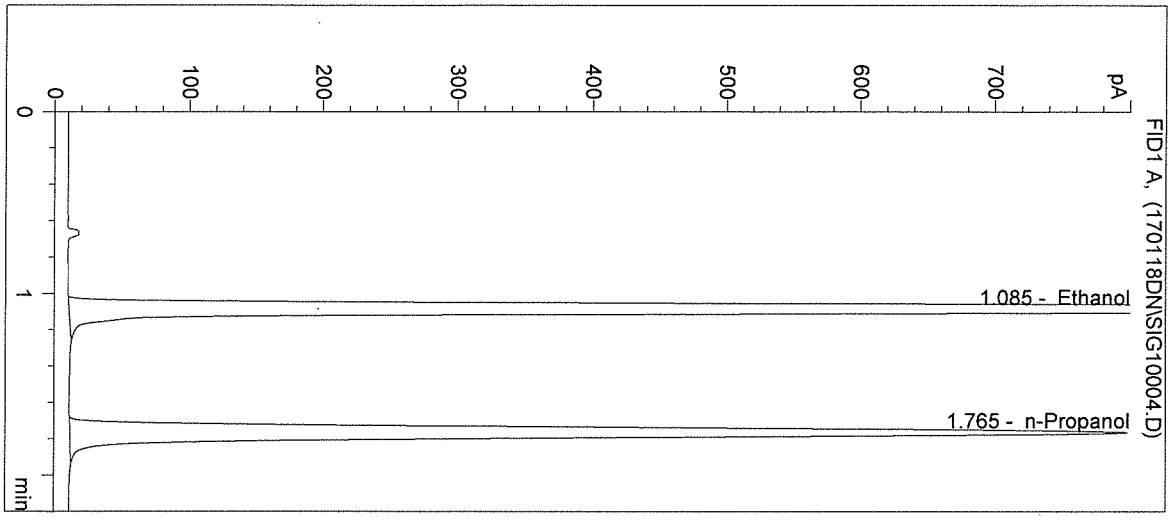
DN

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

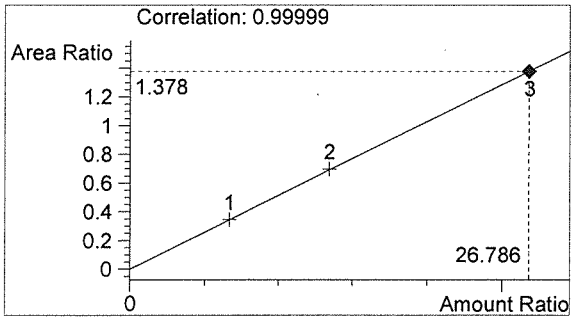
Inj. Date: 1/18/2017 9:22:15 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 3: 0.316 g/100mL
17009

Sample Name: CAL 3 (0.316)
Operator: David Nguyen
Location: Vial 4

->

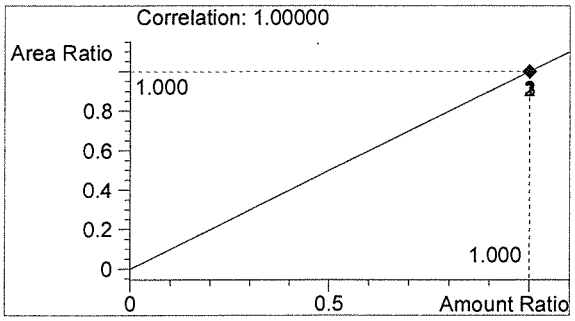


#	Compound	Peak Area	RT (min)
1	Ethanol	4068	1.085
2	n-Propanol	2952	1.765



Ethanol 0.321 g/100mL

BLO



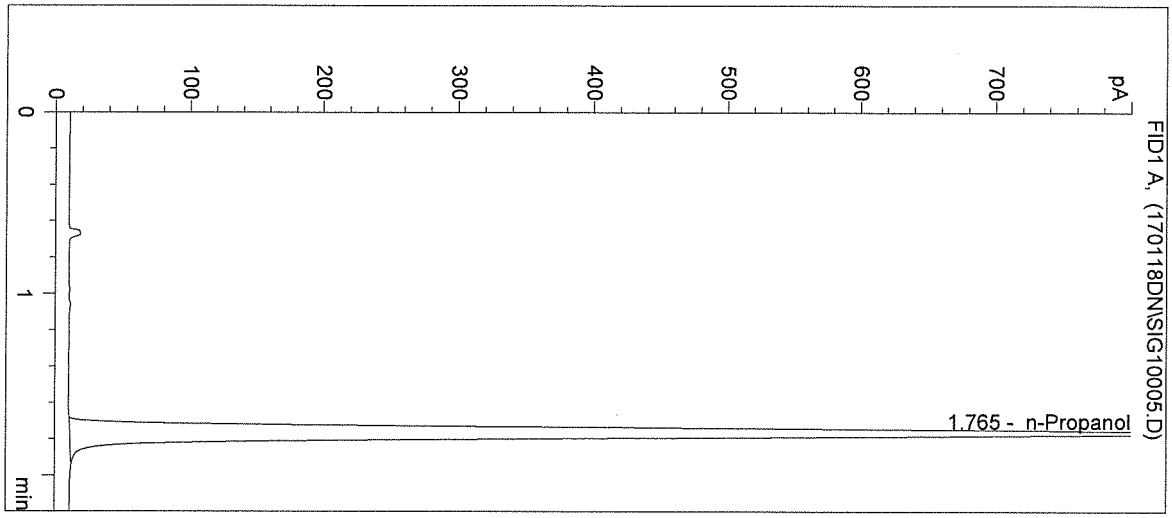
n-Propanol 0.012 g/100mL

DN

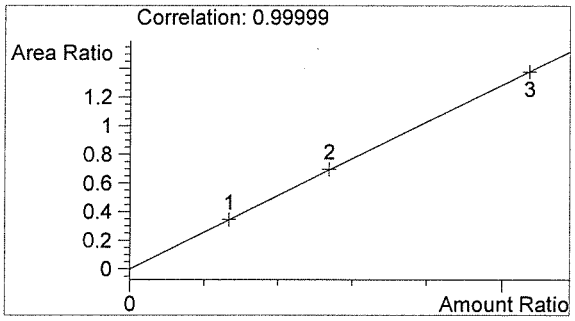
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:25:29 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17009

Sample Name: NEG CTRL
Operator: David Nguyen
Location: Vial 5

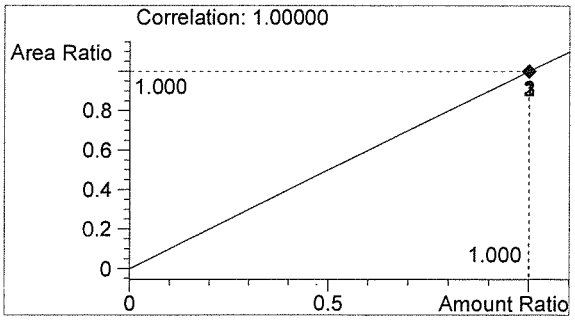


#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	3167	1.765



Ethanol 0.000 g/100mL

RW0



n-Propanol 0.012 g/100mL

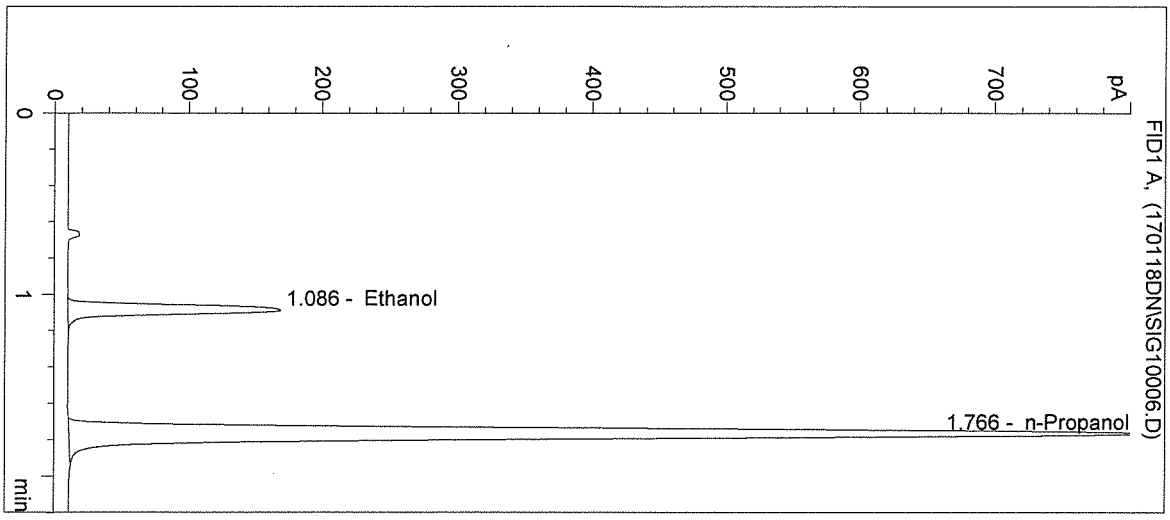
DN

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

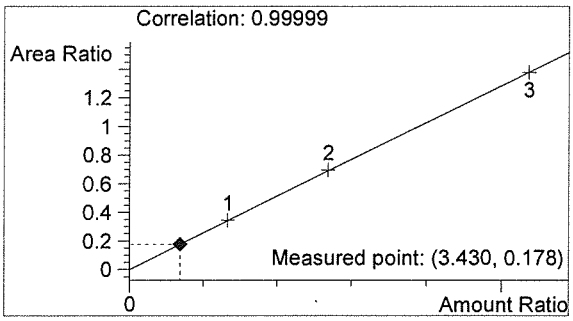
Inj. Date: 1/18/2017 9:28:42 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 1: 0.04 g/100mL
17009

Sample Name: CTRL 1 (0.04)
Operator: David Nguyen
Location: Vial 6

->

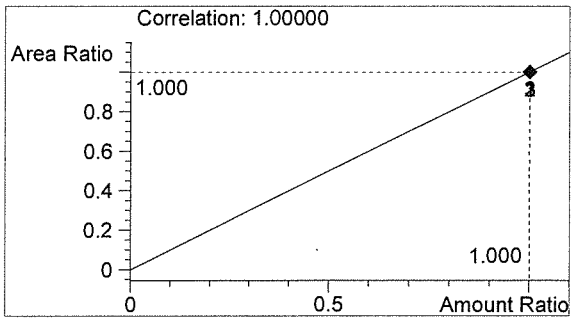


#	Compound	Peak Area	RT (min)
1	Ethanol	539	1.086
2	n-Propanol	3030	1.766



Ethanol 0.041 g/100mL

BLO



n-Propanol 0.012 g/100mL

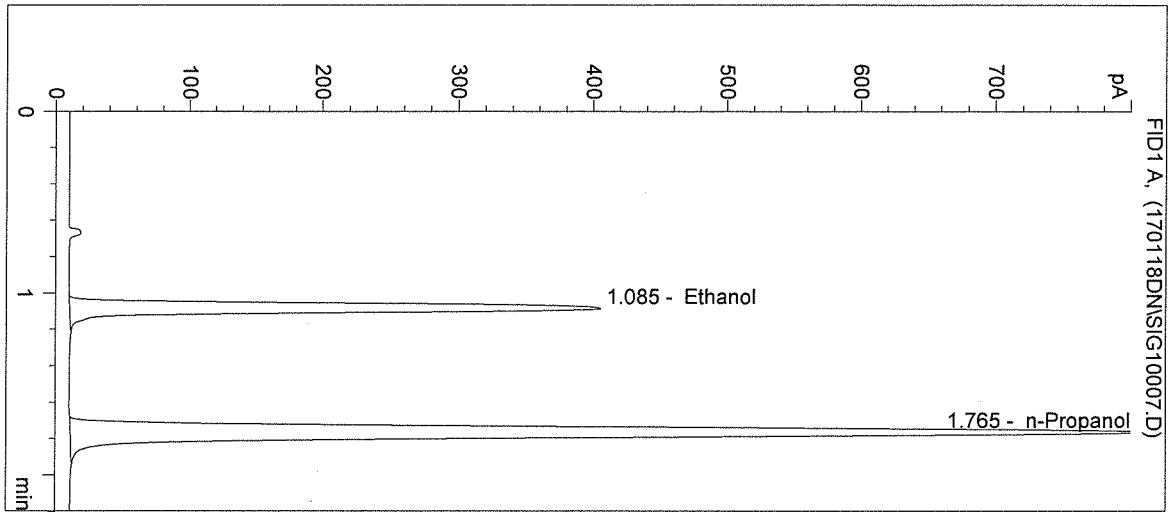
DN

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

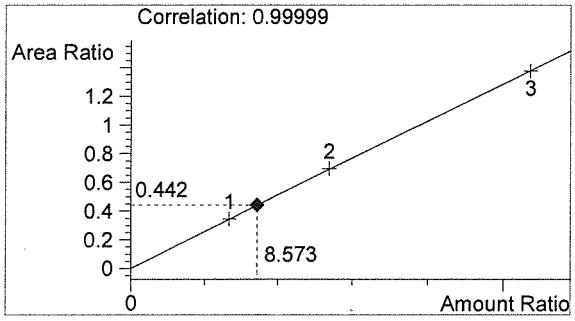
Inj. Date: 1/18/2017 9:31:55 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 2: 0.10 g/100mL
17009

Sample Name: CTRL 2 (0.10)
Operator: David Nguyen
Location: Vial 7

->

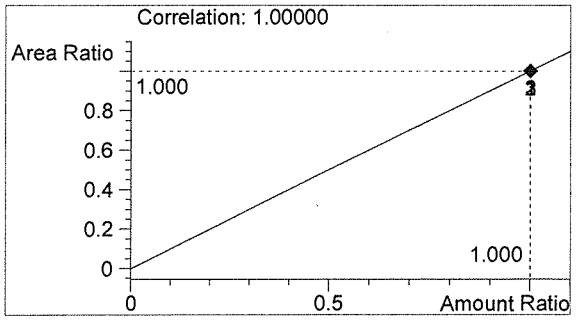


#	Compound	Peak Area	RT (min)
1	Ethanol	1336	1.085
2	n-Propanol	3022	1.765



Ethanol 0.103 g/100mL

BWO



n-Propanol 0.012 g/100mL

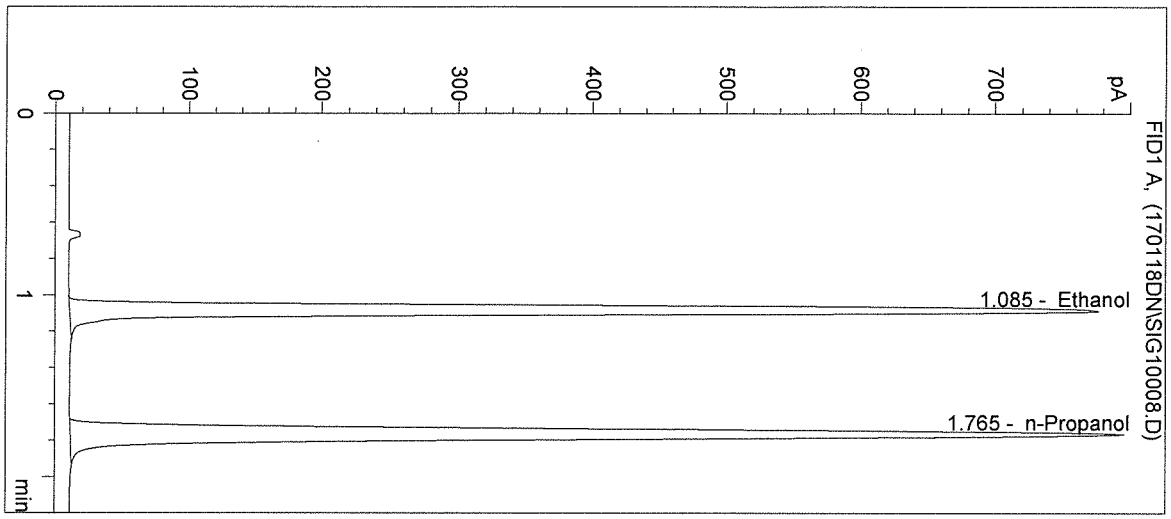
DN

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

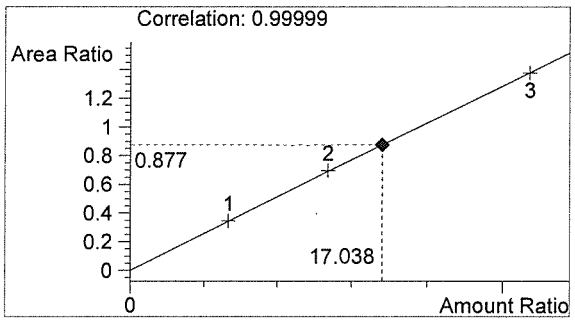
Inj. Date: 1/18/2017 9:35:07 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 3: 0.20 g/100mL
17009

Sample Name: CTRL 3 (0.20)
Operator: David Nguyen
Location: Vial 8

->

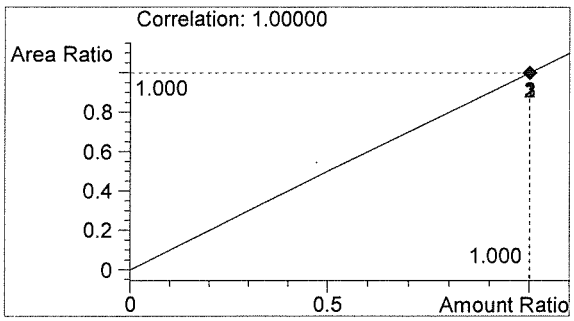


#	Compound	Peak Area	RT (min)
1	Ethanol	2585	1.085
2	n-Propanol	2947	1.765



Ethanol 0.204 g/100mL

BWO



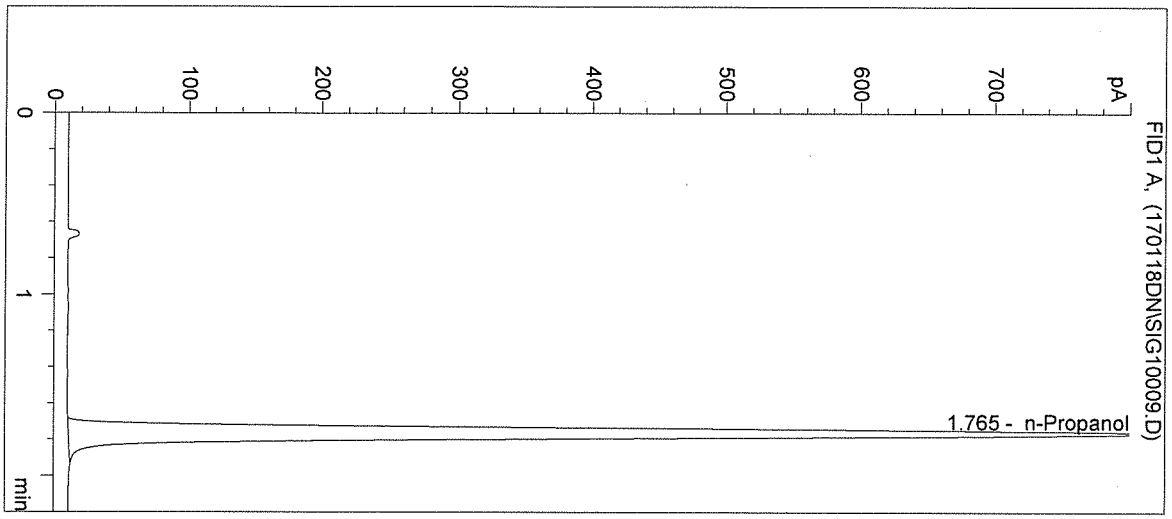
n-Propanol 0.012 g/100mL

DN

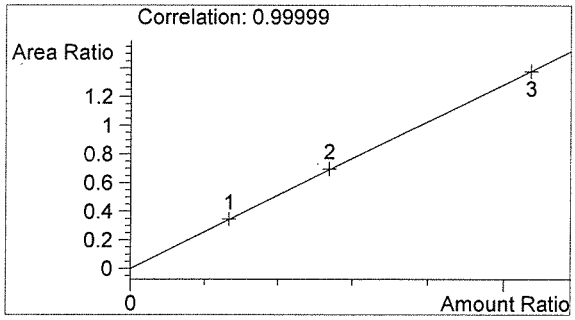
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:38:21 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17009

Sample Name: NEG CTRL
Operator: David Nguyen
Location: Vial 9

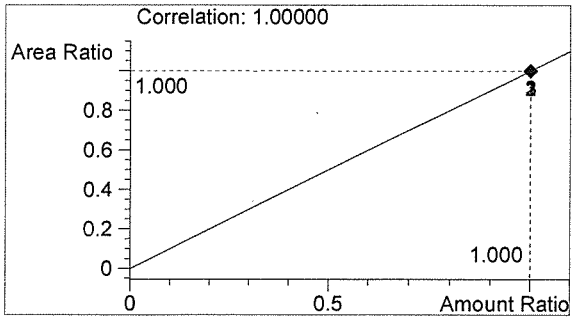


#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	3028	1.765



Ethanol 0.000 g/100mL

BWO



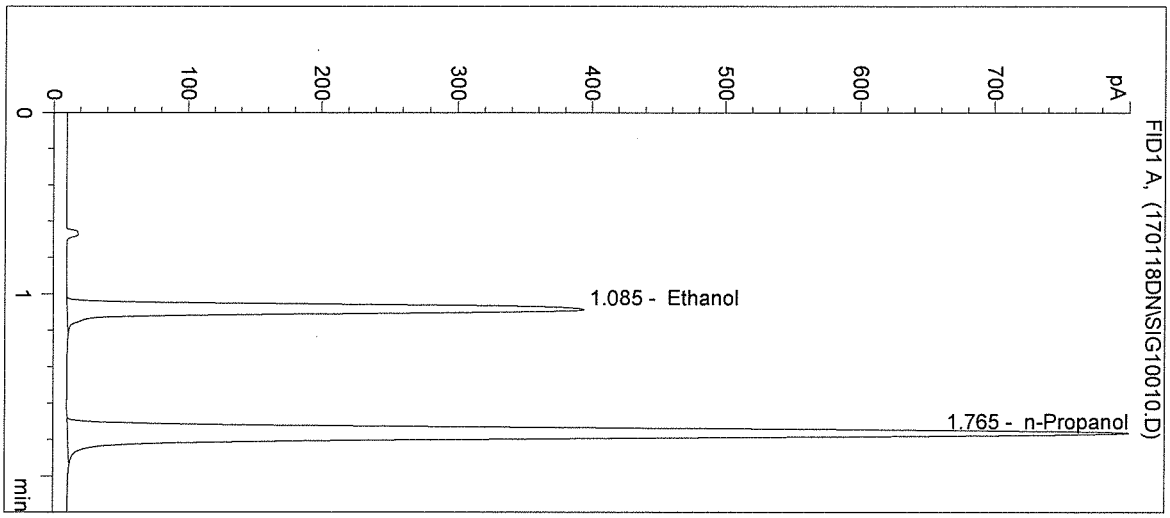
n-Propanol 0.012 g/100mL

DN

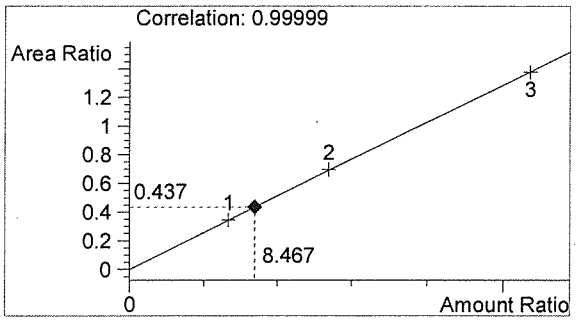
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:41:34 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17009 #1
Operator: David Nguyen
Location: Vial 10

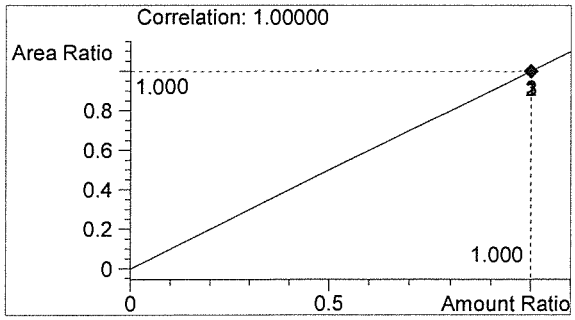


#	Compound	Peak Area	RT (min)
1	Ethanol	1293	1.085
2	n-Propanol	2960	1.765



Ethanol 0.102 g/100mL

BWO



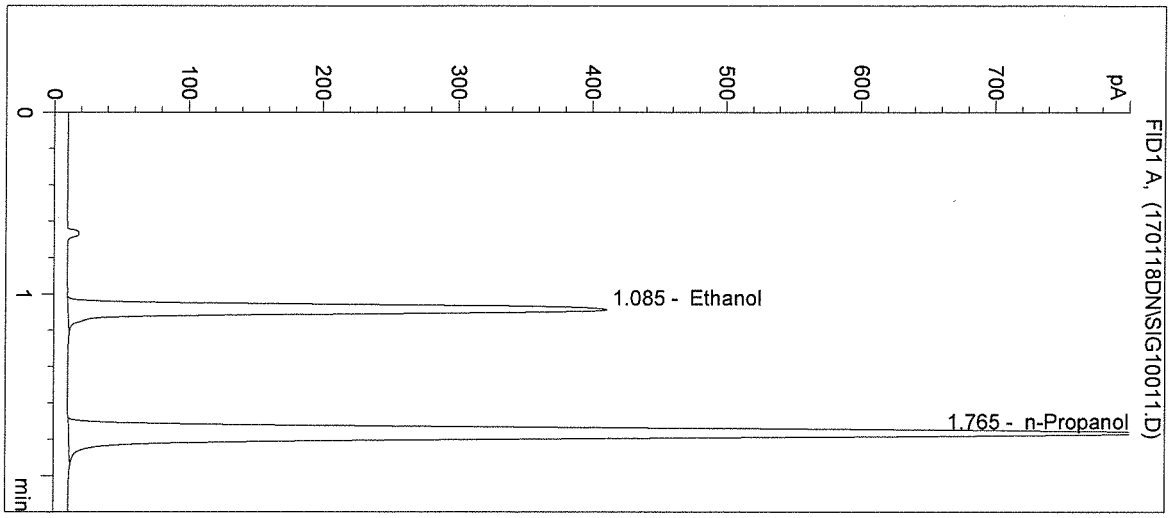
n-Propanol 0.012 g/100mL

DN

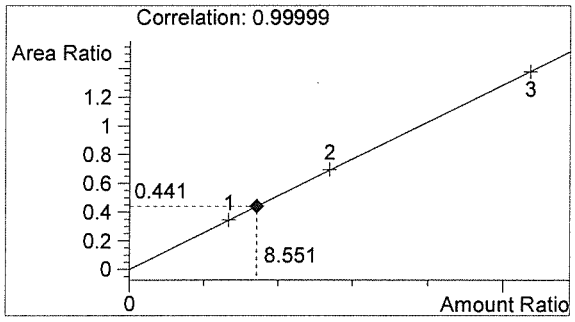
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:44:47 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17009 #2
Operator: David Nguyen
Location: Vial 11

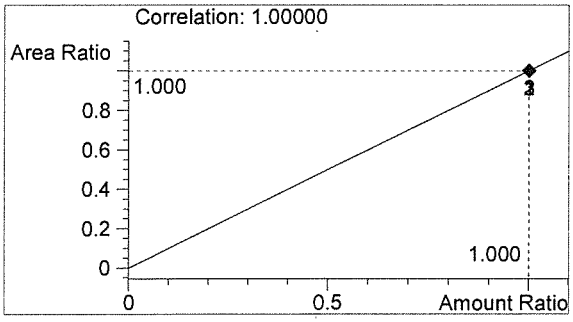


#	Compound	Peak Area	RT (min)
1	Ethanol	1354	1.085
2	n-Propanol	3071	1.765



Ethanol 0.103 g/100mL

BW



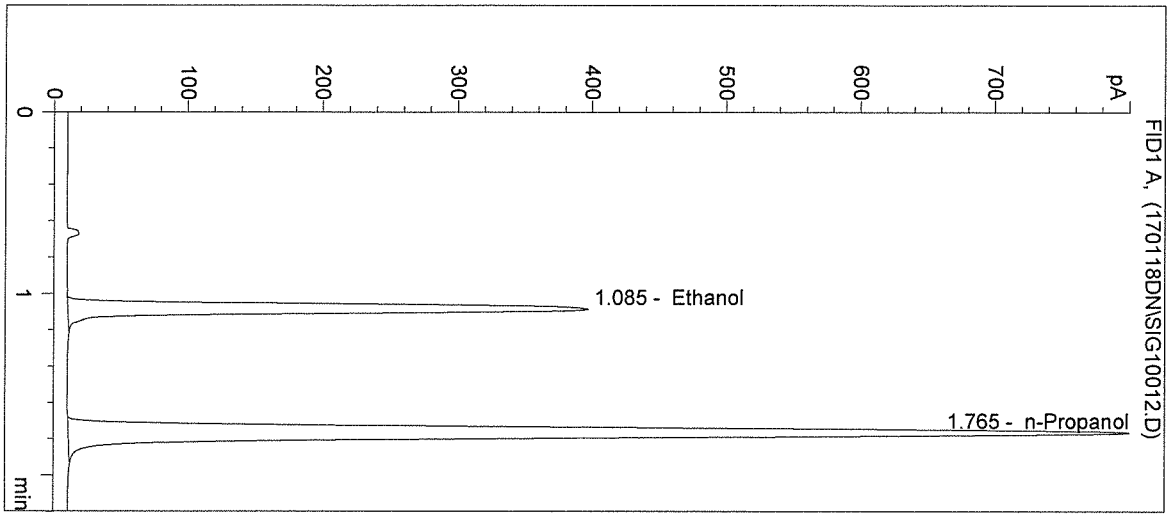
n-Propanol 0.012 g/100mL

DN

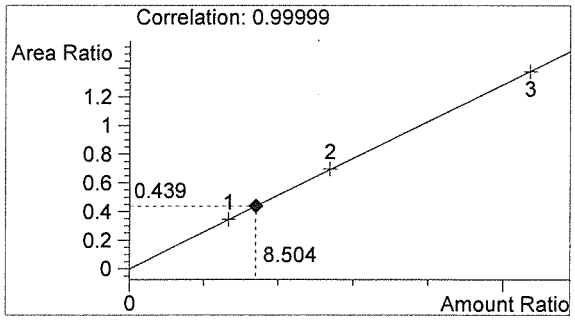
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:48:01 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17009 #3
Operator: David Nguyen
Location: Vial 12

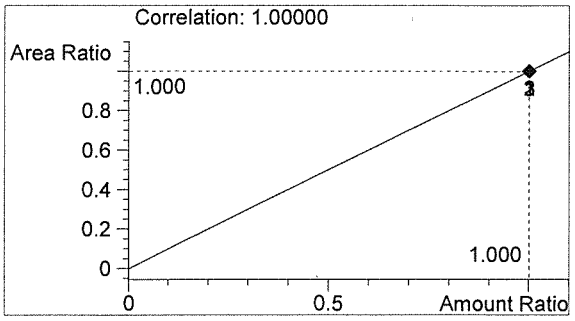


#	Compound	Peak Area	RT (min)
1	Ethanol	1304	1.085
2	n-Propanol	2973	1.765



Ethanol 0.102 g/100mL

BWD



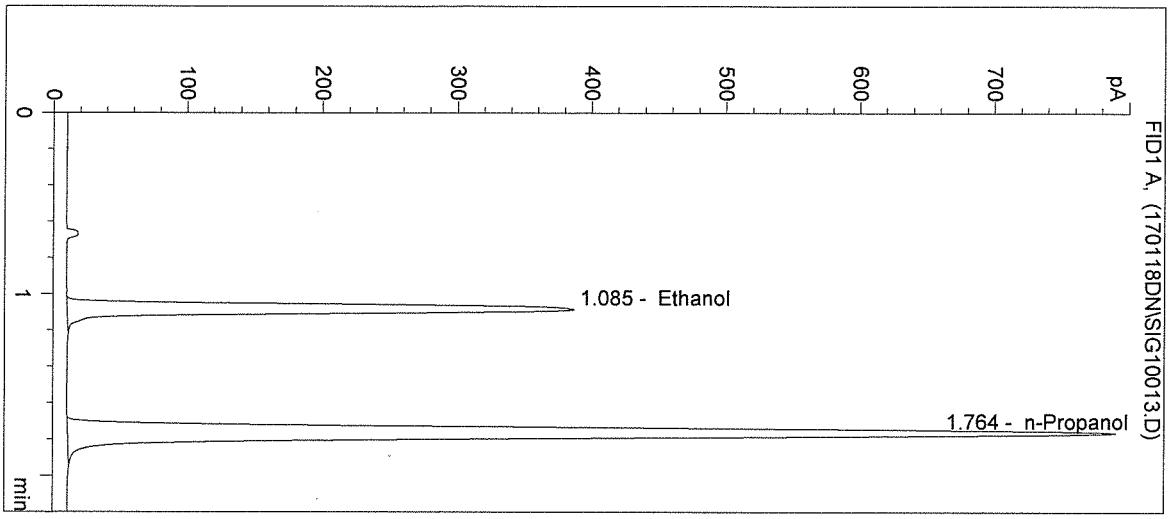
n-Propanol 0.012 g/100mL

DN

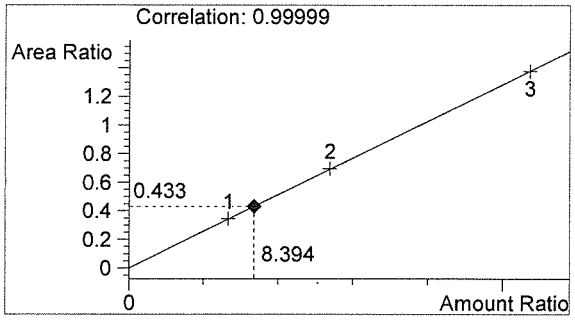
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:51:14 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17009 #4
Operator: David Nguyen
Location: Vial 13

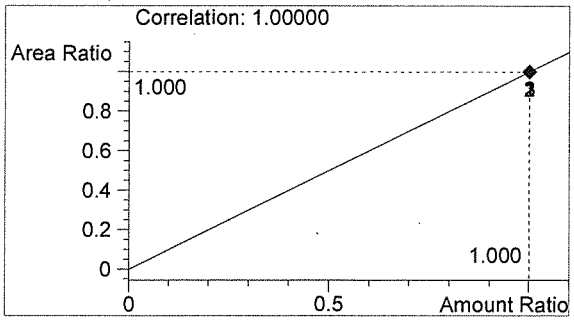


#	Compound	Peak Area	RT (min)
1	Ethanol	1264	1.085
2	n-Propanol	2919	1.764



Ethanol 0.101 g/100mL

BWD



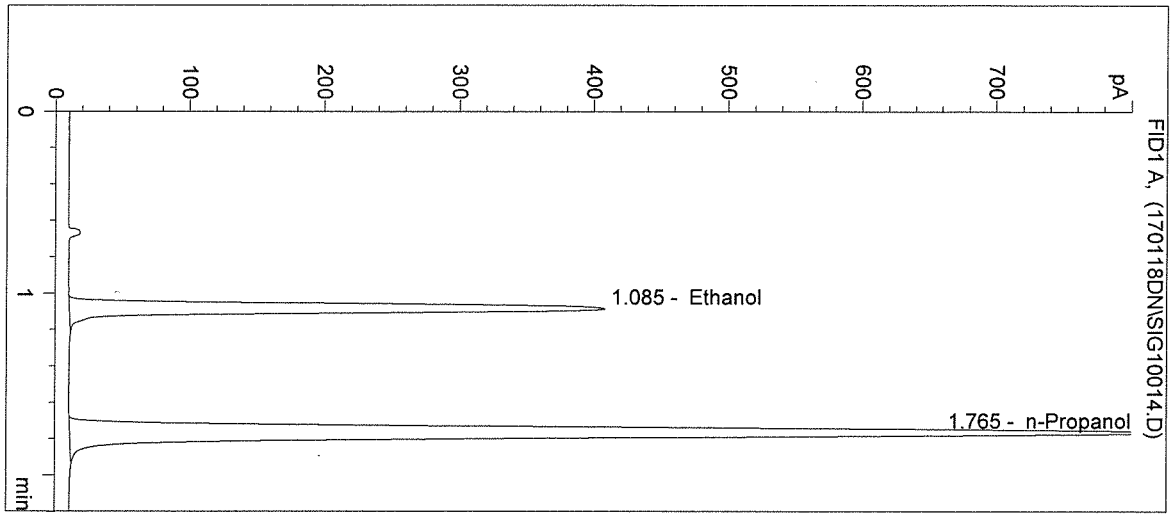
n-Propanol 0.012 g/100mL

DN

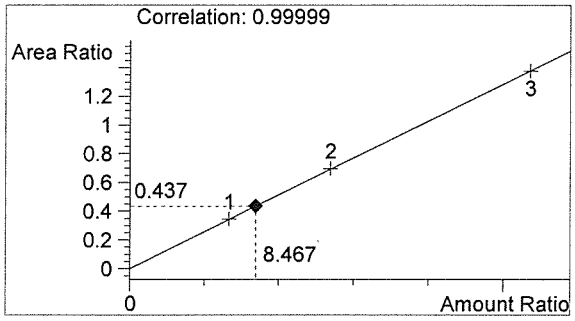
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 9:54:27 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17009 #5
Operator: David Nguyen
Location: Vial 14

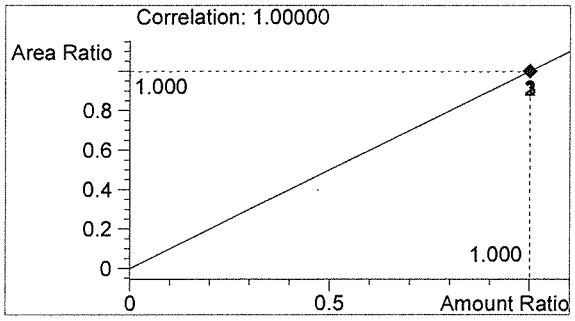


#	Compound	Peak Area	RT (min)
1	Ethanol	1344	1.085
2	n-Propanol	3079	1.765



Ethanol 0.102 g/100mL

RWO



n-Propanol 0.012 g/100mL

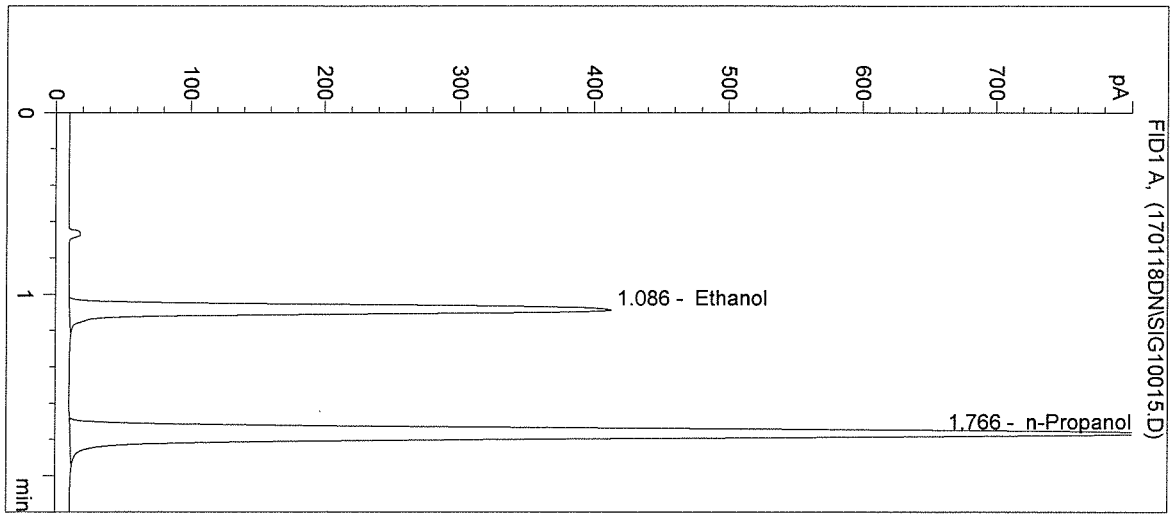
DN

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

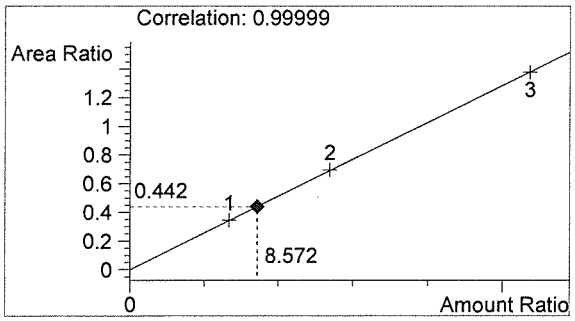
Inj. Date: 1/18/2017 9:57:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: POS CTRL: 0.10 g/100mL
17009

Sample Name: POS CTRL (0.10)
Operator: David Nguyen
Location: Vial 15

->

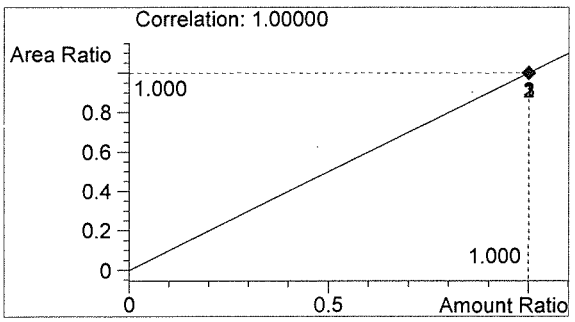


#	Compound	Peak Area	RT (min)
1	Ethanol	1360	1.086
2	n-Propanol	3076	1.766



Ethanol 0.103 g/100mL

BLD



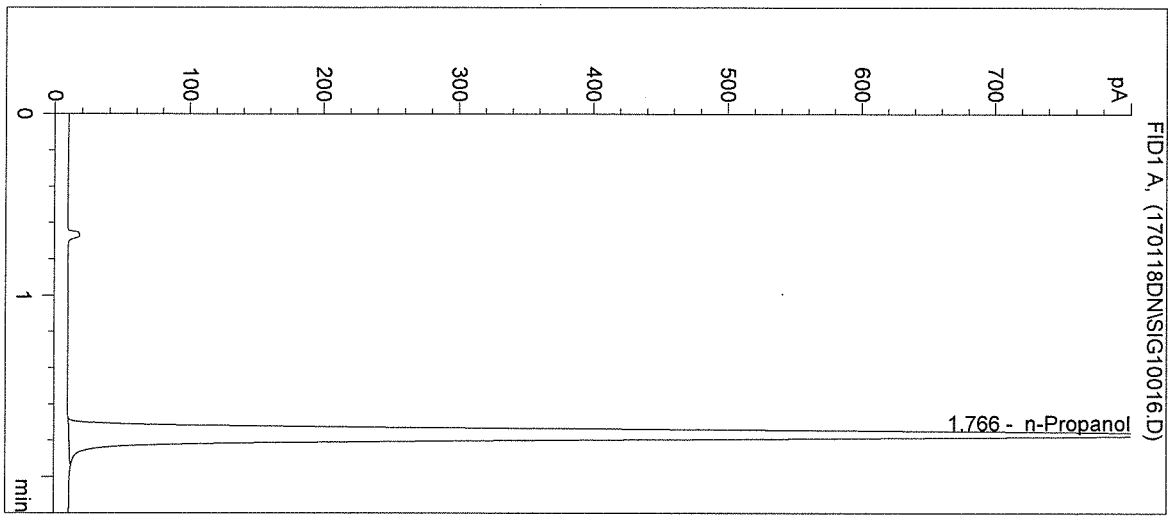
n-Propanol 0.012 g/100mL

DN

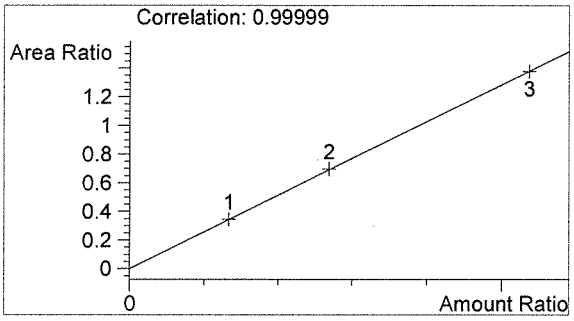
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 1/18/2017 10:00:54 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17009

Sample Name: NEG CTRL
Operator: David Nguyen
Location: Vial 16

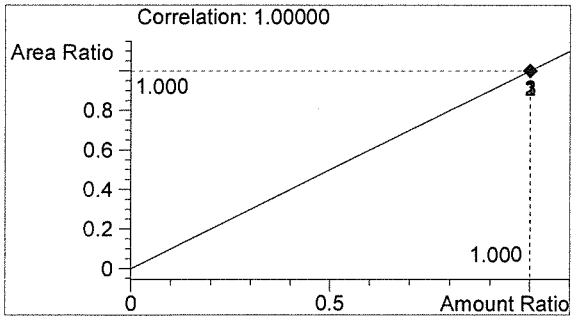


#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	3182	1.766



Ethanol 0.000 g/100mL

BW



n-Propanol 0.012 g/100mL

DN
