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

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

QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 16035

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: 10/03/2016
BATCH UNITS: g/100mL
IDENTITY: QAP Solution
PREPARED BY: Rebecca Flaherty

	RF	AG	DN
1	0.051	0.051	0.051
2	0.051	0.051	0.051
3	0.051	0.051	0.051
4	0.050	0.051	0.051
5	0.051	0.051	0.051
C	0.102	0.101	0.102

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

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.0509 g/100mL
STANDARD DEVIATION: 0.00026
PRECISION CV (%): 0.51
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0414 g/210L**
EXPANDED UNCERTAINTY: ± 0.0010 (k=2, 95.45% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Lisa Noble — Forensic Scientist Supervisor

10/24/16
DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
RF	Rebecca Flaherty		10/03/2016
AG	Andrew Gingras		10/05/2016
DN	David Nguyen		10/11/2016

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 #: 16035 **Date Prepared:** 10/3/2016

Analyst:	RF	AG	DN
Date Tested:	10/3/2016	10/5/2016	10/11/2016
Instrument:	HSGC #1	HSGC #1	HSGC #1
1	0.051	0.051	0.051
2	0.051	0.051	0.051
3	0.051	0.051	0.051
4	0.050	0.051	0.051
5	0.051	0.051	0.051
C	0.102	0.101	0.102

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000017132	0.0000107498	0.0001016326

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

Average Solution Concentration: 0.0509 g/100mL
Standard Deviation: 0.00026 g/100mL
Precision CV (%): 0.51
Equivalent Vapor Concentration: 0.0414 g/210L
Combined Standard Uncertainty (±): 0.0005 g/210L
Expanded Uncertainty (±): 0.0010 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Lisa Noble (Name) Lnahoble (Signature) 10/12/16 (Date)

Calculations verified by: Amanda M. Black (Name) (Signature) 10-21-16 (Date)

Method: Hand calculation

Tech. review performed by: Lisa Noble (Name) Lnahoble (Signature) 10/12/16 (Date)

Washington State Patrol Toxicology Laboratory Division

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black **Date:** 10-21-16

Location: WSP-FLSB Seattle, WA **Solution Batch Number:** 16035

	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: [signature] **Date:** 10-21-16

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	AG	10/12/16
Asa Louis		
Brittany Thomas		
Christie Mitchell-Mata		
Christopher Johnston		
David Nguyen	DN	10/12/16
Dawn Sklerov		
Elizabeth Wehner		
Justin Knoy		
Katie Harris		
Lyndsey Lowe		
Naziha Nuwayhid		
Rebecca Flaherty	RF	10/12/16

Batch # 16035 fn 10/12/16

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

0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16035

I, Rebecca Flaherty, 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 degrees in Biochemistry and Psychobiology and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 16035, was prepared in the Washington State Toxicology Laboratory on 10/3/2016. 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 10/3/2017.

Seattle, WA

10/12/16

Rebecca Flaherty — Date

Forensic Scientist

JAY INSLEE
Governor

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Chief

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0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16035

I, Andrew Gingras, 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 Cell and Molecular Biology and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 16035, was prepared in the Washington State Toxicology Laboratory on 10/3/2016. 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 10/3/2017.

Seattle, WA

10/12/2016

Andrew Gingras Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

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0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16035

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 16035, was prepared in the Washington State Toxicology Laboratory on 10/3/2016. 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 10/3/2017.

Seattle, WA

10/12/16

David Nguyen — 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: 10·3·16 Expiration Date: 10·3·17 Initials of Preparer: RF

Lot # of 200-proof Ethanol used in preparation: 2DK0010

Date the 200-proof Ethanol bottle was opened: 8·8·16

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	☑	16035
QAP 0.08	22.4	18	☑	16036
QAP 0.10	28.1	18	☑	16038
QAP 0.15	42.1	18	☑	16039
QAP ~~0.20~~ 0.08 RF10·3·16	~~56.1~~ 11.2 RF10·3·16	18	☑	16037
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 ☑ 10·3·16 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:
Batch 16036 not bottled due to testing outside acceptable range - RF 10·3·16

Analyst Signature 10·3·16 Date

Sequence: C:\HPCHEM\1\SEQUENCE\RFQAP1.S

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:	161003RF
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
Ethanol Calibrator 1, E0916-01 - Exp. 3/15/17
Ethanol Calibrator 2, E0916-02 - Exp. 3/15/17
Ethanol Calibrator 3, E0916-03 - Exp. 3/15/17
CTRL1 (0.04g/100mL), Lot#FN05011301 - Exp: 5/2018
CTRL2 (0.10g/100mL), Lot#FN08051301 - Exp. 10/2018
CTRL3 (0.20g/100mL), Lot#FN03211401 - Exp. 06/2019
Internal Standard Lot#P0916 - Exp. 12/21/16

Calibration vials 1-9 filed with 16035.

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	16035-1	SIMALC1	1	Sample		
11	Vial 11	16035-2	SIMALC1	1	Sample		
12	Vial 12	16035-3	SIMALC1	1	Sample		
13	Vial 13	16035-4	SIMALC1	1	Sample		
14	Vial 14	16035-5	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	16036-1	SIMALC1	1	Sample		
18	Vial 18	16036-2	SIMALC1	1	Sample		
19	Vial 19	16036-3	SIMALC1	1	Sample		
20	Vial 20	16036-4	SIMALC1	1	Sample		
21	Vial 21	16036-5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	16037-1	SIMALC1	1	Sample		
25	Vial 25	16037-2	SIMALC1	1	Sample		

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RF

Sequence: C:\HPCHEM\1\SEQUENCE\RFQAP1.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
26	Vial 26	16037-3	SIMALC1	1	Sample		
27	Vial 27	16037-4	SIMALC1	1	Sample		
28	Vial 28	16037-5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	16038-1	SIMALC1	1	Sample		
32	Vial 32	16038-2	SIMALC1	1	Sample		
33	Vial 33	16038-3	SIMALC1	1	Sample		
34	Vial 34	16038-4	SIMALC1	1	Sample		
35	Vial 35	16038-5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	SIMALC1	1	Ctrl Samp		
38	Vial 38	16039-1	SIMALC1	1	Sample		
39	Vial 39	16039-2	SIMALC1	1	Sample		
40	Vial 40	16039-3	SIMALC1	1	Sample		
41	Vial 41	16039-4	SIMALC1	1	Sample		
42	Vial 42	16039-5	SIMALC1	1	Sample		
43	Vial 43	0.10 CTRL	SIMALC1	1	Ctrl Samp		
44	Vial 44	NEG CTRL	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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Method C:\HPCHEM\1\METHODS\SIMALC1.M

Calibration Table

Calib. Data Modified : Monday, October 03, 2016 1:14:17 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
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,

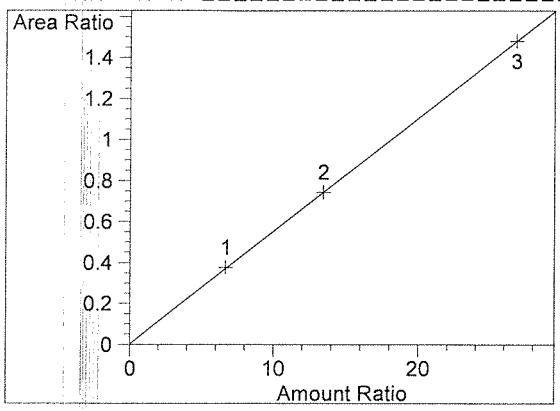
RetTime [min]	Lvl Sig		Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.085	1	1	8.00100e-2	989.65228	8.08466e-5	1		Ethanol
		2	1.61200e-1	1952.14746	8.25757e-5			
		3	3.21790e-1	3890.50781	8.27116e-5			
1.764	1	1	1.20000e-2	2627.40259	4.56725e-6	I1		n-Propanol
		2	1.20000e-2	2625.52417	4.57052e-6			
		3	1.20000e-2	2626.49585	4.56883e-6			

16035

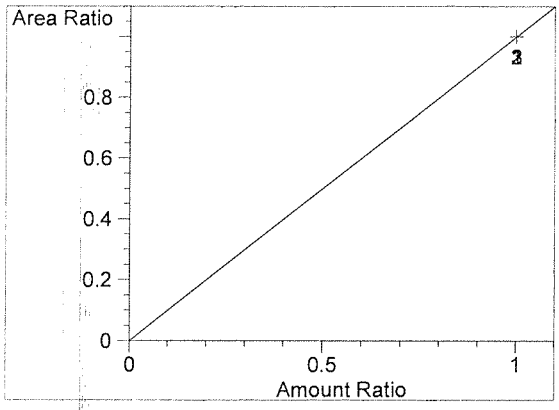
Peak Sum Table

No Entries in table

Calibration Curves



Ethanol at exp. RT: 1.085
FID1 A,
Correlation: 0.99998
Residual Std. Dev.: 0.00468
Formula: y = mx + b
m: 5.51370e-2
b: 3.65105e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.764
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

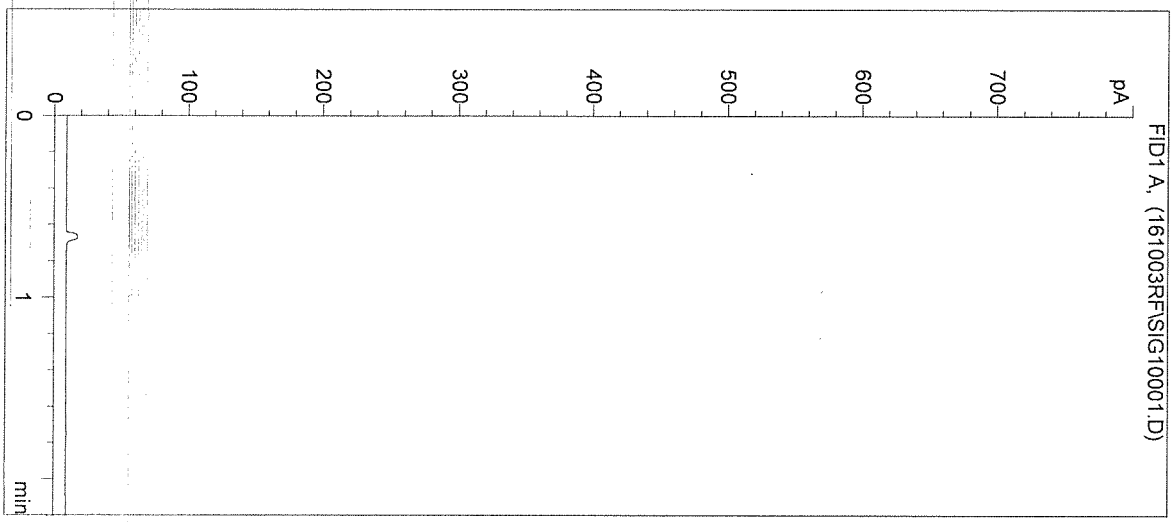
16035
fn 10/12/16

RF

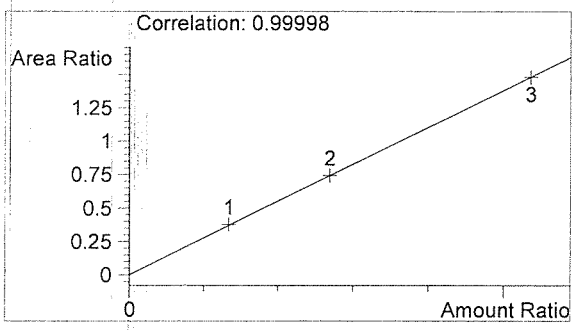
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:02:13 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

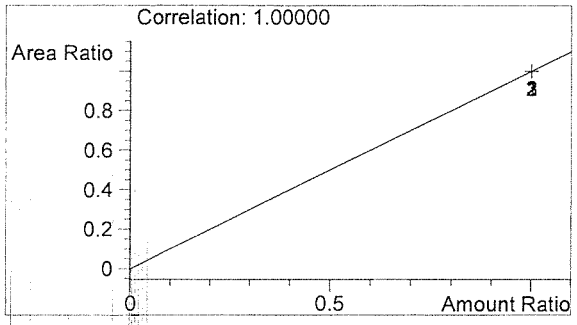
Sample Name: BLANK
Operator: Rebecca Flaherty
Location: Vial 1



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



Ethanol 0.000 g/100mL



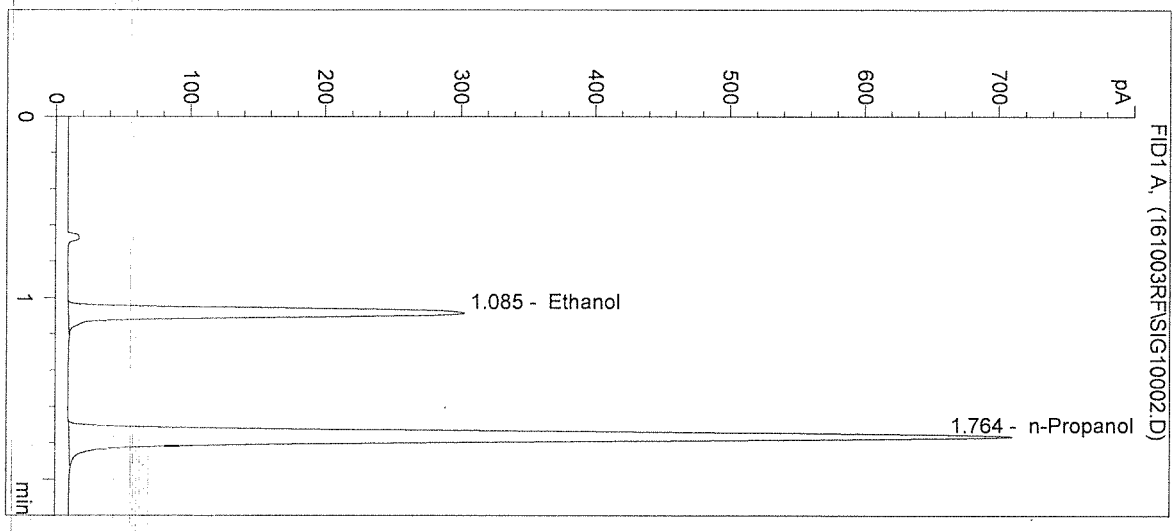
n-Propanol 0.000 g/100mL

RF

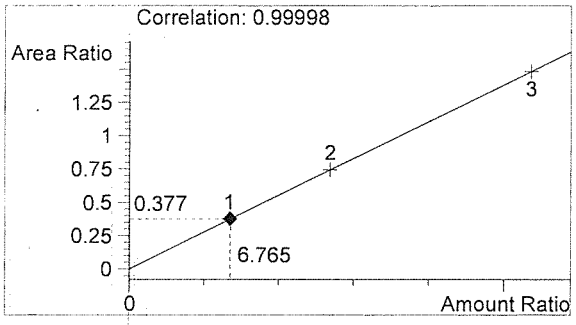
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:05:30 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

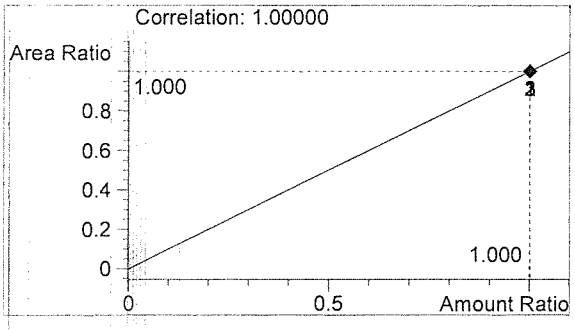
Sample Name: 0.079 CAL 1
Operator: Rebecca Flaherty
Location: Vial 2



#	Compound	Peak Area	RT (min)
1	Ethanol	990	1.085
2	n-Propanol	2627	1.764



Ethanol 0.081 g/100mL



n-Propanol 0.012 g/100mL

RF

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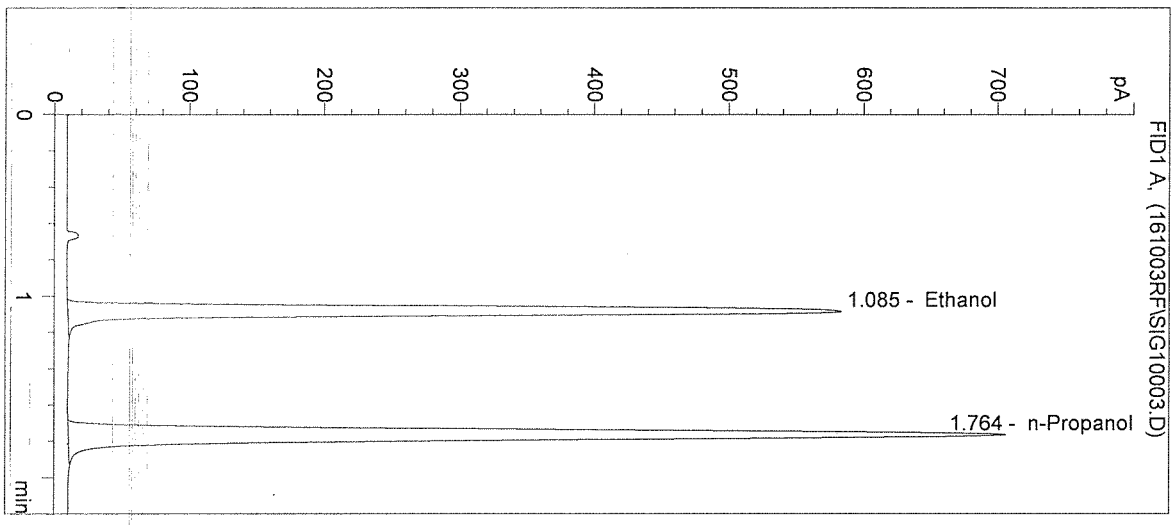
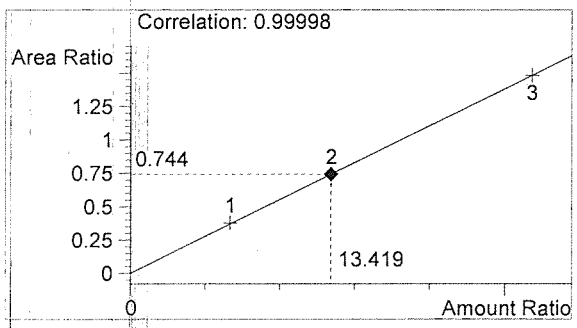
Inj. Date: 10/3/2016 1:08:47 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

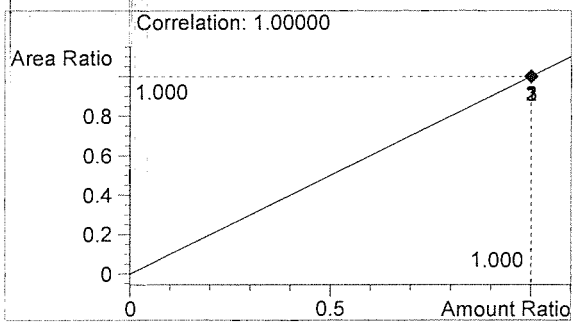
Sample Name: 0.158 CAL 2
Operator: Rebecca Flaherty
Location: Vial 3



#	Compound	Peak Area	RT (min)
1	Ethanol	1952	1.085
2	n-Propanol	2626	1.764



Ethanol 0.161 g/100mL



n-Propanol 0.012 g/100mL

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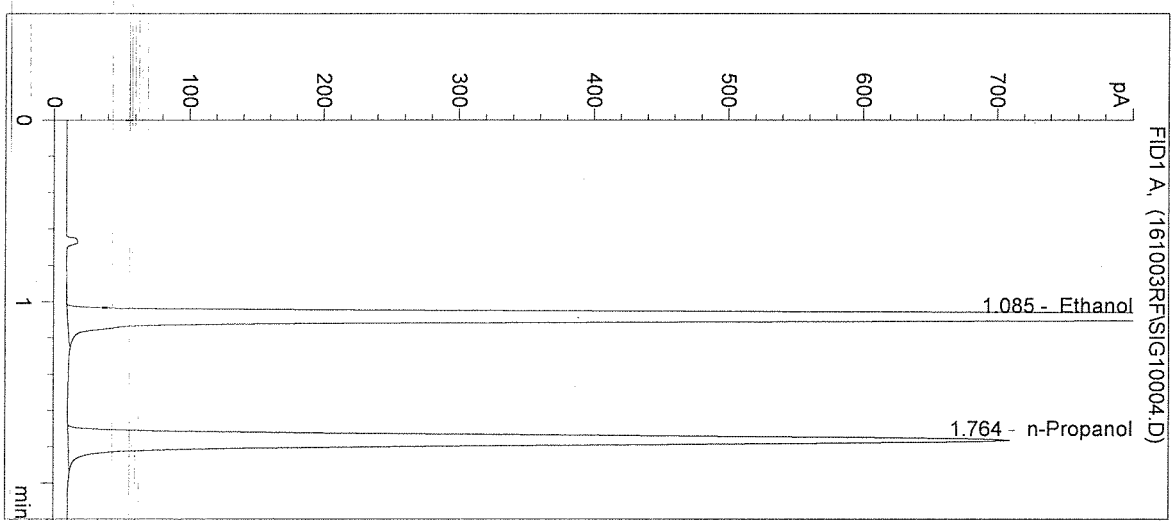
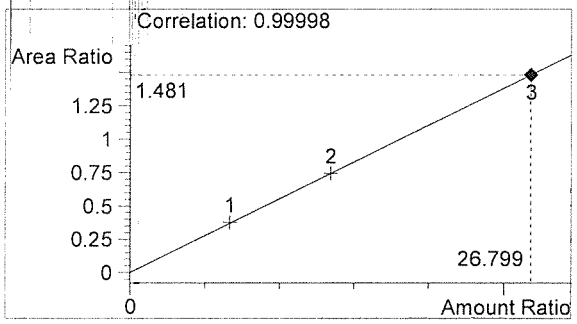
Inj. Date: 10/3/2016 1:12:04 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

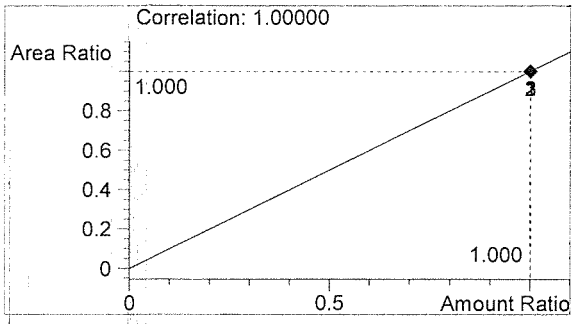
Sample Name: 0.316 CAL 3
Operator: Rebecca Flaherty
Location: Vial 4



#	Compound	Peak Area	RT (min)
1	Ethanol	3891	1.085
2	n-Propanol	2626	1.764



Ethanol 0.322 g/100mL



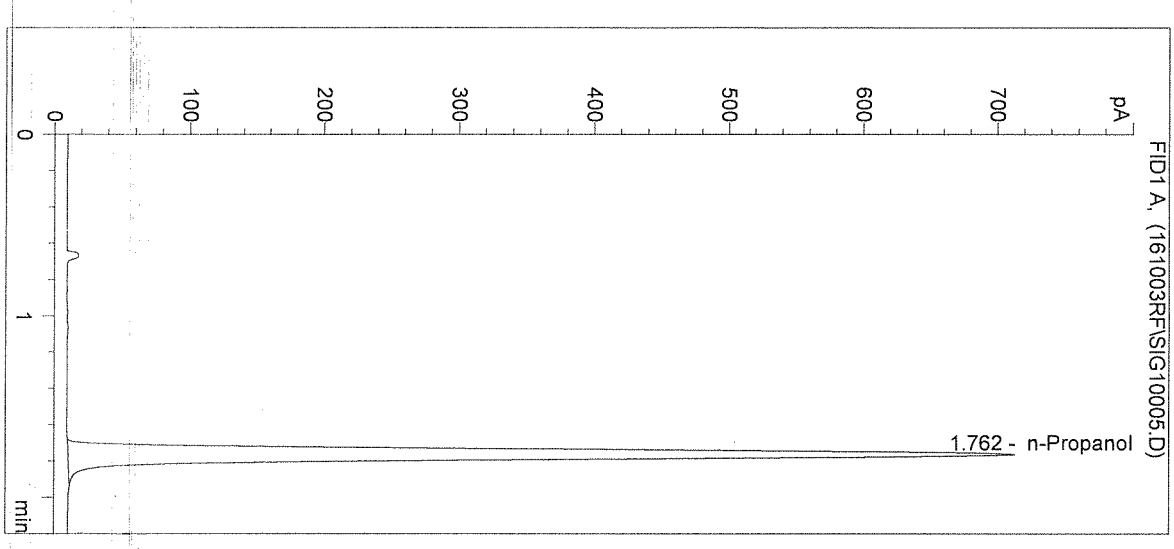
n-Propanol 0.012 g/100mL

RF

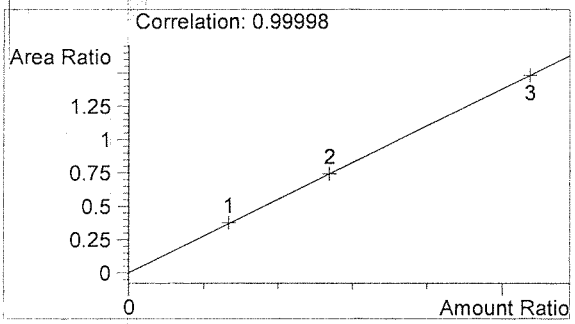
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:15:16 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

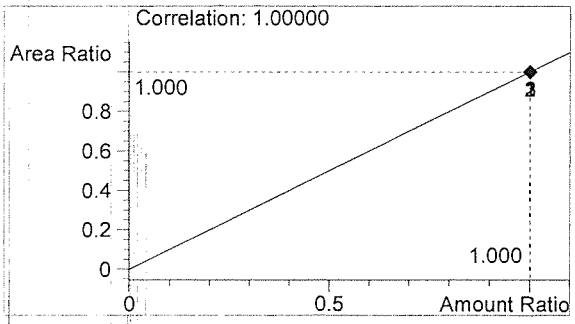
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 5



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2636	1.762



Ethanol 0.000 g/100mL



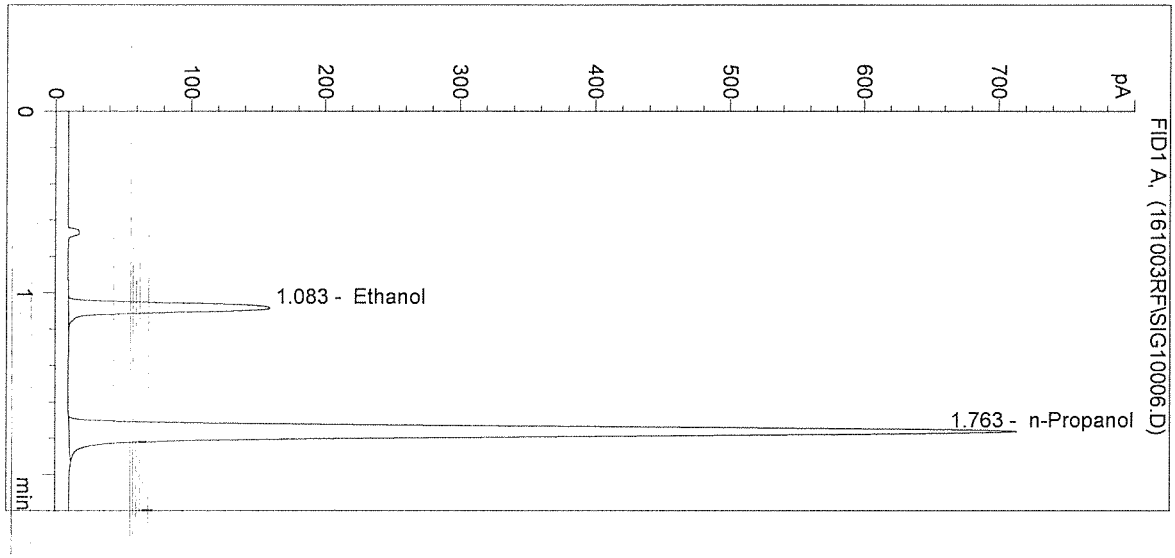
n-Propanol 0.012 g/100mL

RF

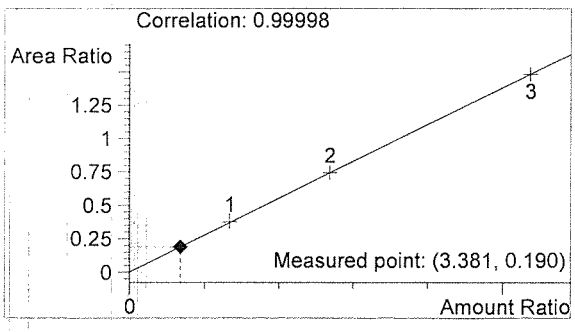
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:18:30 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

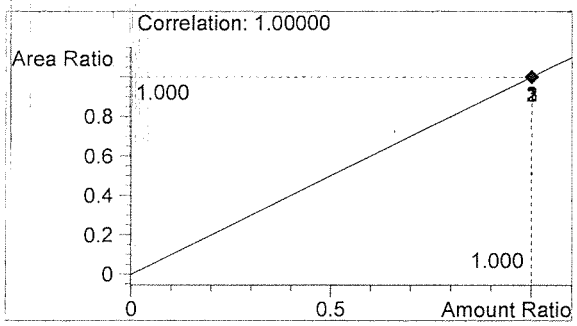
Sample Name: 0.04 CTRL
Operator: Rebecca Flaherty
Location: Vial 6



#	Compound	Peak Area	RT (min)
1	Ethanol	501	1.083
2	n-Propanol	2637	1.763



Ethanol 0.041 g/100mL



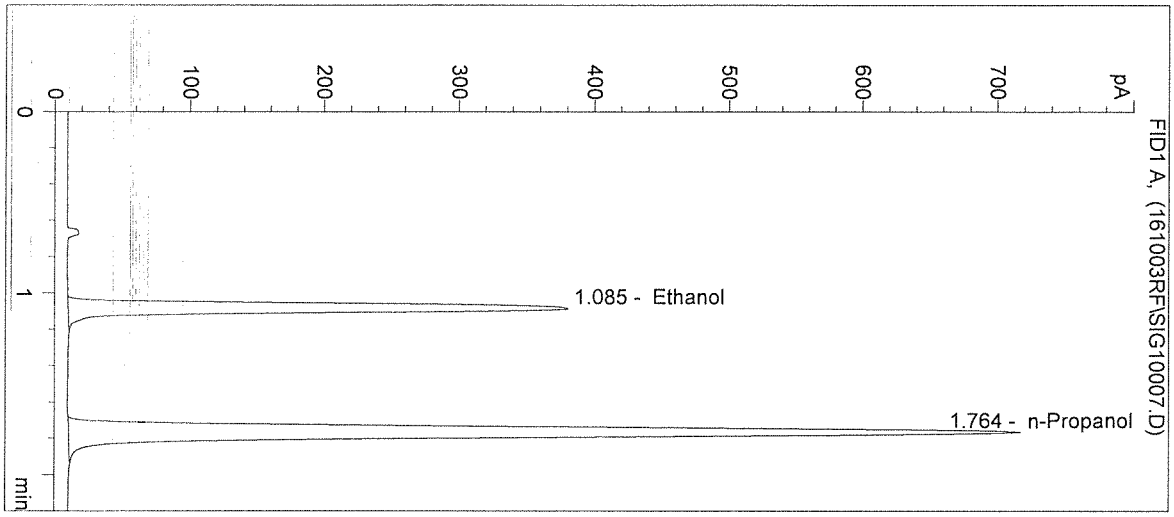
n-Propanol 0.012 g/100mL

RF

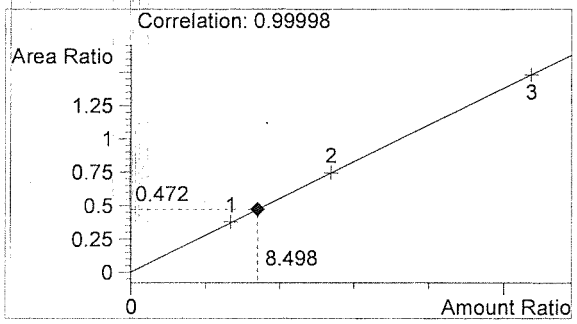
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:21:43 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

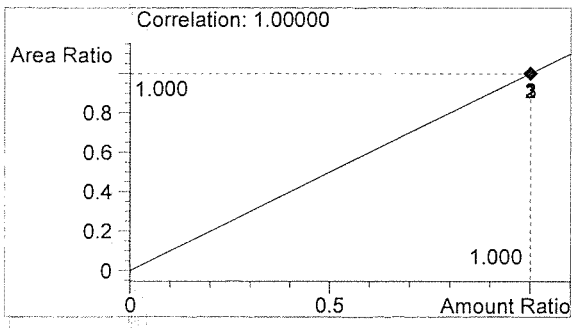
Sample Name: 0.10 CTRL
Operator: Rebecca Flaherty
Location: Vial 7



#	Compound	Peak Area	RT (min)
1	Ethanol	1257	1.085
2	n-Propanol	2662	1.764



Ethanol 0.102 g/100mL



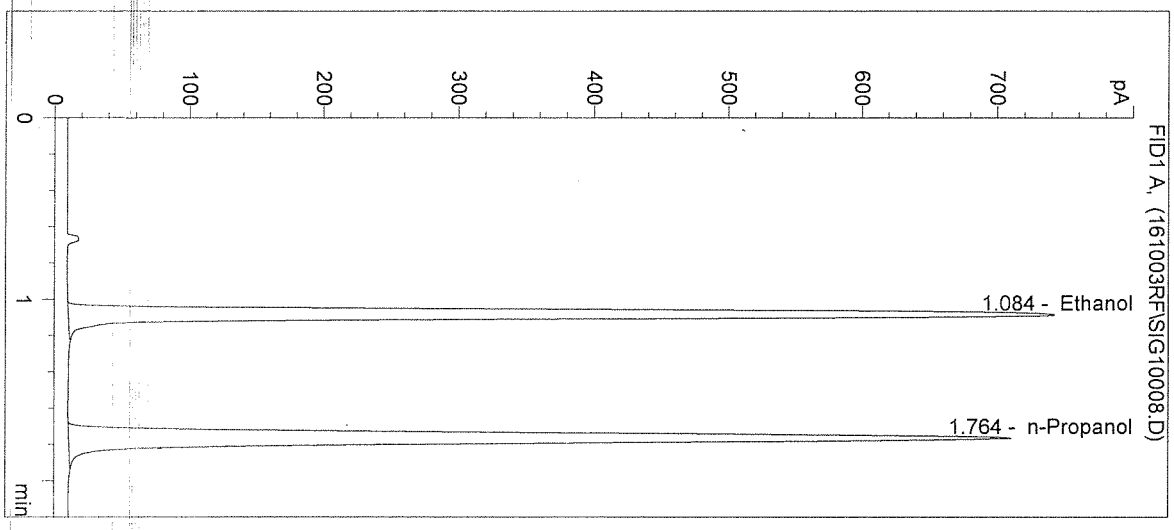
n-Propanol 0.012 g/100mL

RF

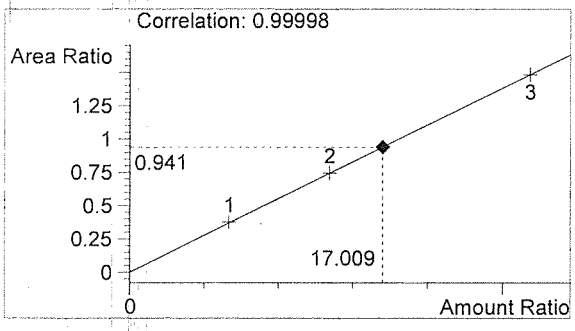
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:24:56 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

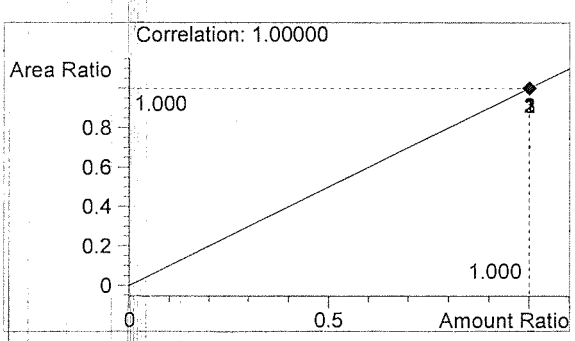
Sample Name: 0.20 CTRL
Operator: Rebecca Flaherty
Location: Vial 8



#	Compound	Peak Area	RT (min)
1	Ethanol	2477	1.084
2	n-Propanol	2631	1.764



Ethanol 0.204 g/100mL



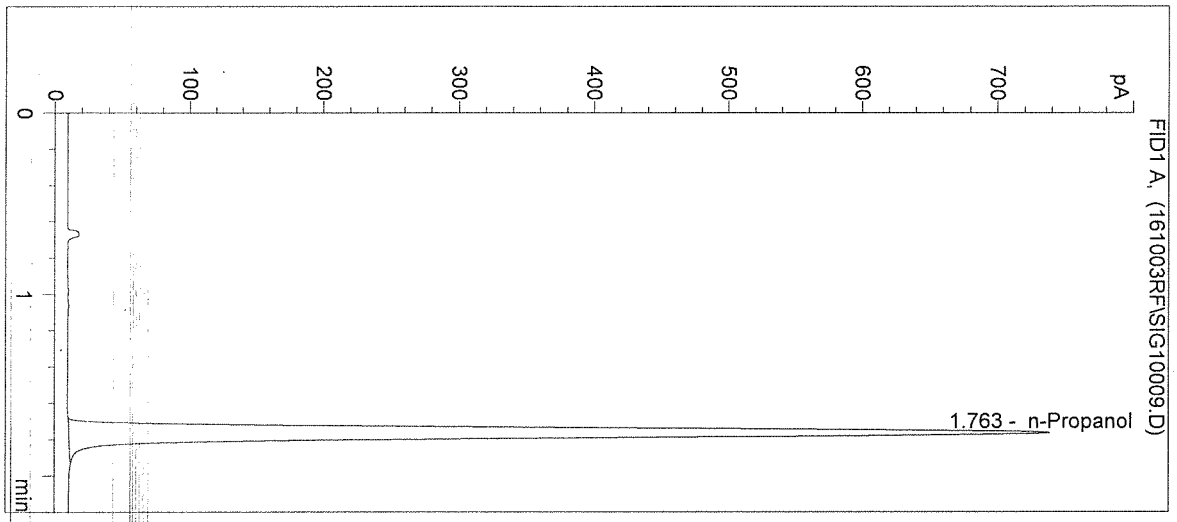
n-Propanol 0.012 g/100mL

RF

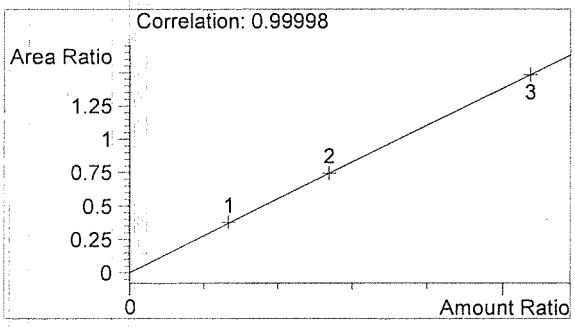
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:28:10 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

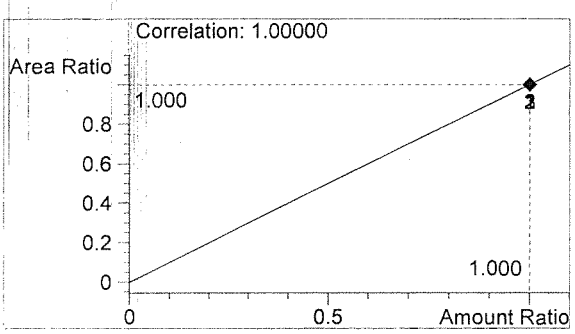
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 9



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2737	1.763



Ethanol 0.000 g/100mL



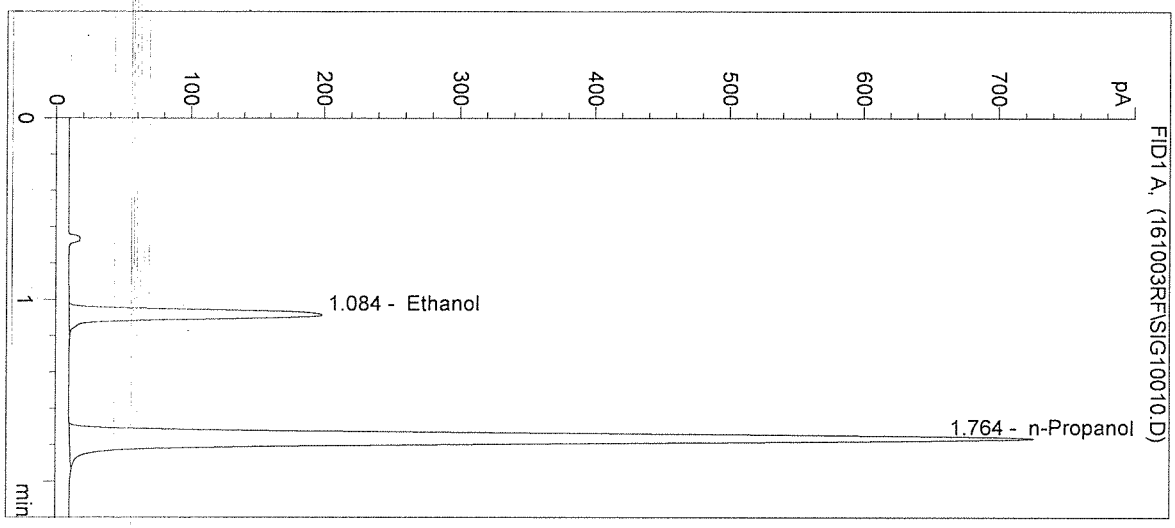
n-Propanol 0.012 g/100mL

RF

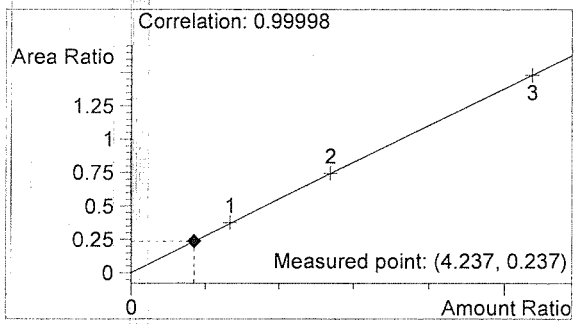
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:31:23 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

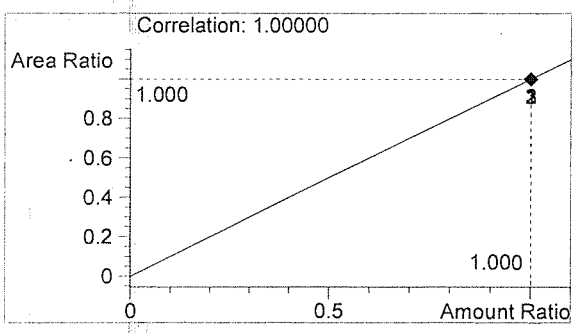
Sample Name: 16035-1
Operator: Rebecca Flaherty
Location: Vial 10



#	Compound	Peak Area	RT (min)
1	Ethanol	640	1.084
2	n-Propanol	2695	1.764



Ethanol 0.051 g/100mL

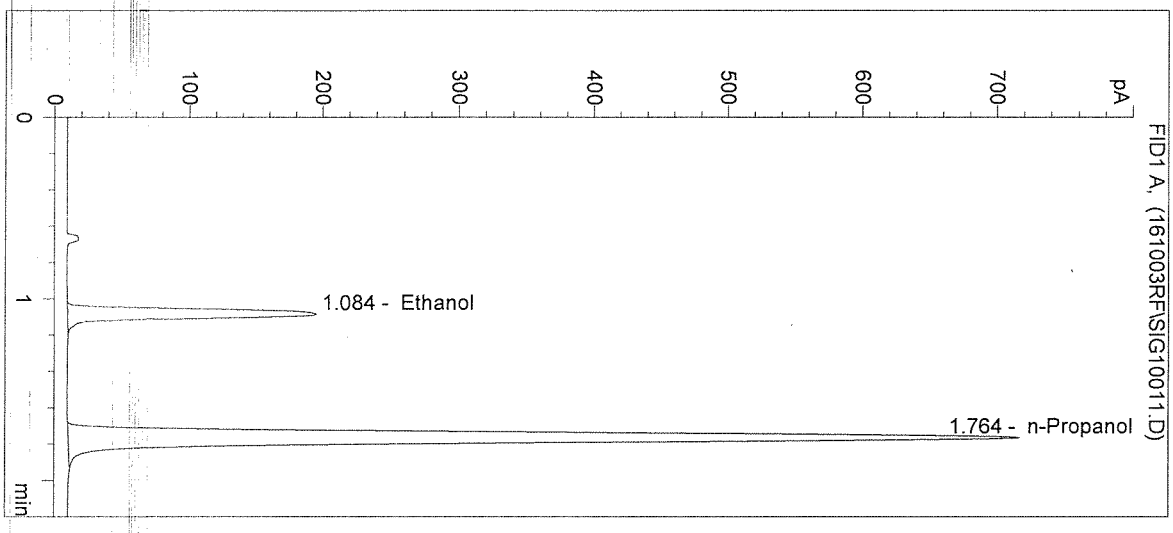


n-Propanol 0.012 g/100mL

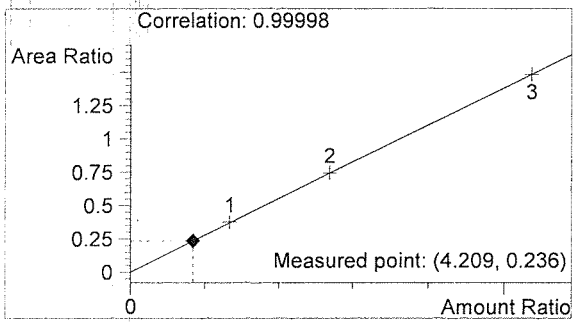
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:34:36 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

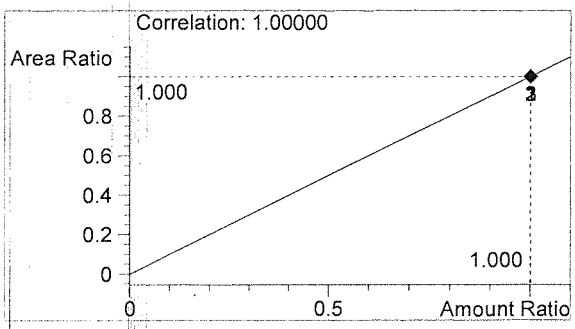
Sample Name: 16035-2
Operator: Rebecca Flaherty
Location: Vial 11



#	Compound	Peak Area	RT (min)
1	Ethanol	625	1.084
2	n-Propanol	2653	1.764



Ethanol 0.051 g/100mL



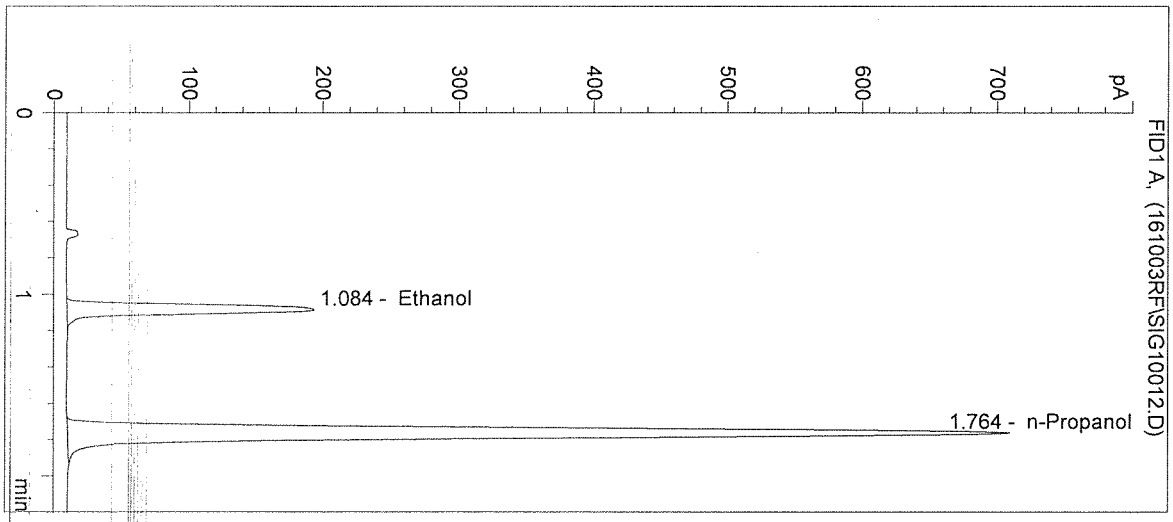
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\161003RF\SIG10011.D

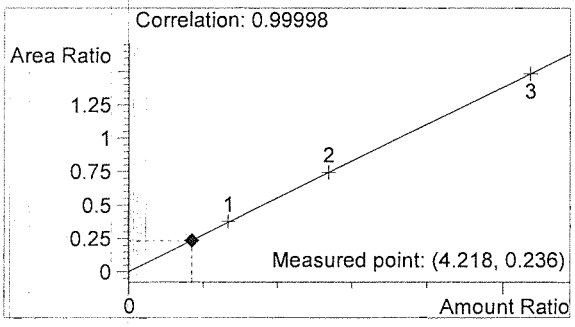
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:37:50 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

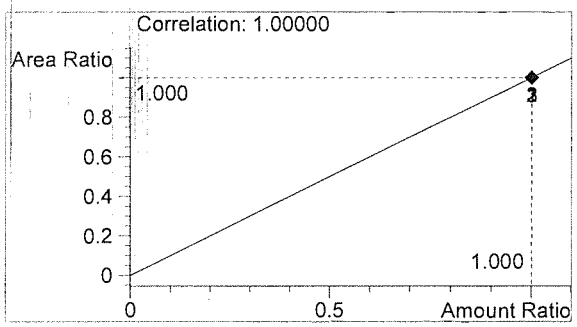
Sample Name: 16035-3
Operator: Rebecca Flaherty
Location: Vial 12



#	Compound	Peak Area	RT (min)
1	Ethanol	621	1.084
2	n-Propanol	2630	1.764



Ethanol 0.051 g/100mL



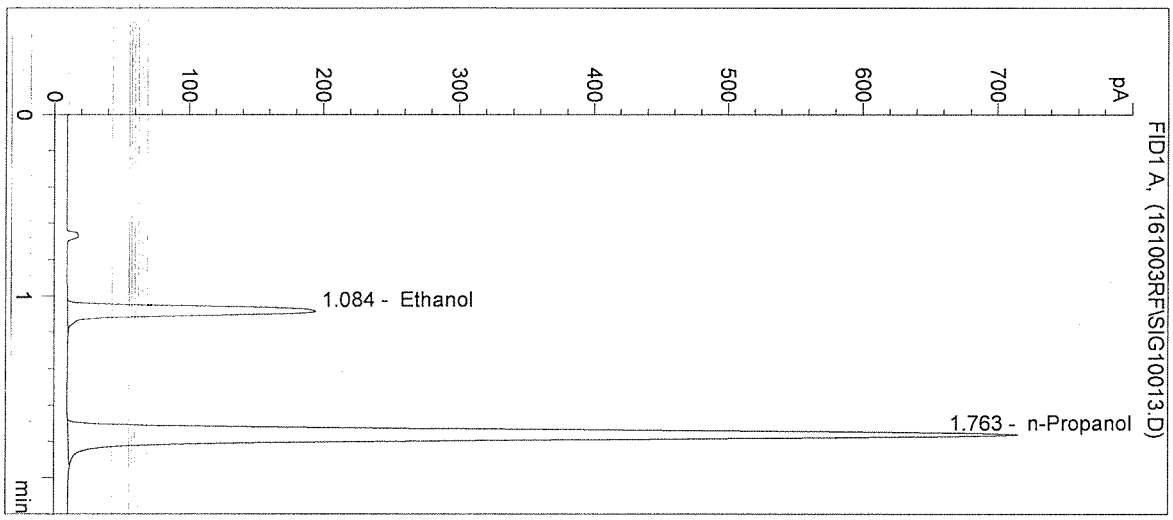
n-Propanol 0.012 g/100mL

RF

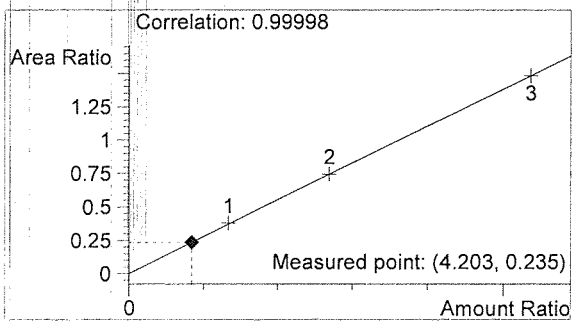
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:41:03 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

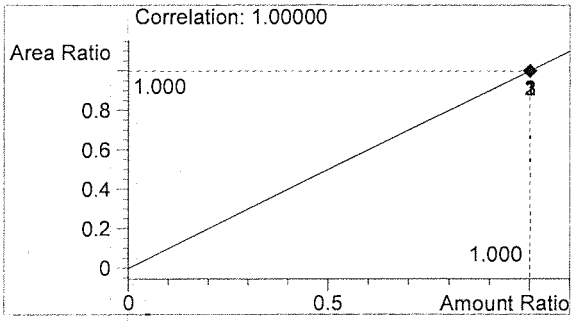
Sample Name: 16035-4
Operator: Rebecca Flaherty
Location: Vial 13



#	Compound	Peak Area	RT (min)
1	Ethanol	622	1.084
2	n-Propanol	2643	1.763



Ethanol 0.050 g/100mL

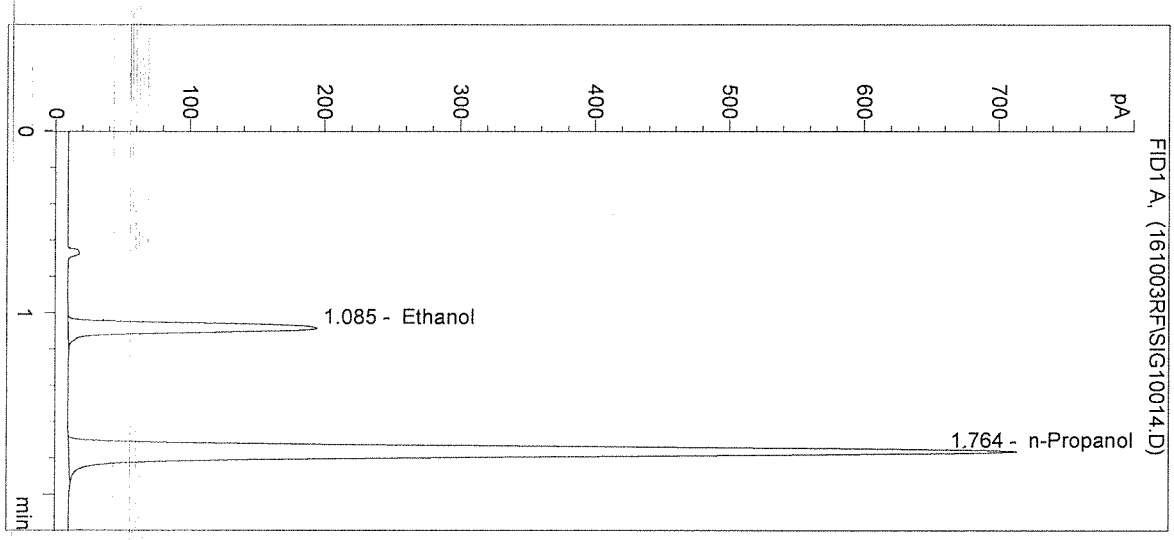


n-Propanol 0.012 g/100mL

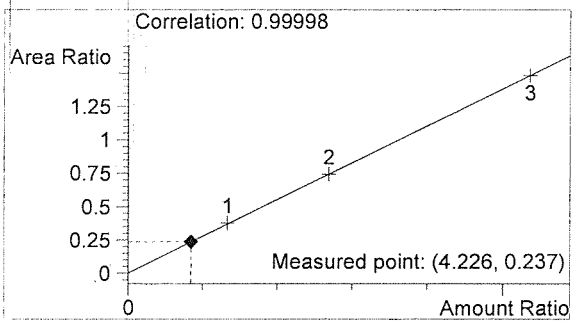
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:44:16 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

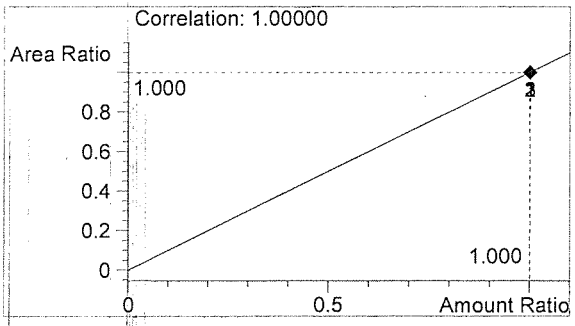
Sample Name: 16035-5
Operator: Rebecca Flaherty
Location: Vial 14



#	Compound	Peak Area	RT (min)
1	Ethanol	626	1.085
2	n-Propanol	2643	1.764



Ethanol 0.051 g/100mL

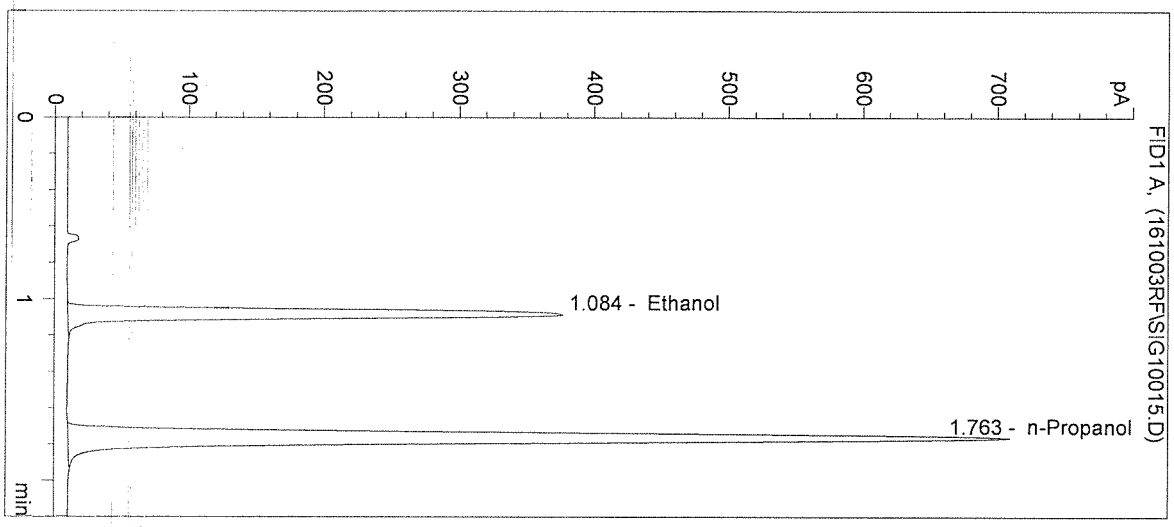


n-Propanol 0.012 g/100mL

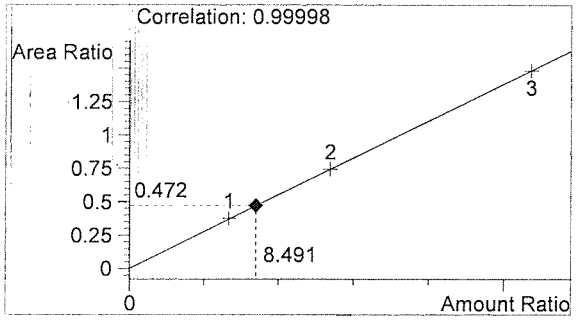
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:47:29 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

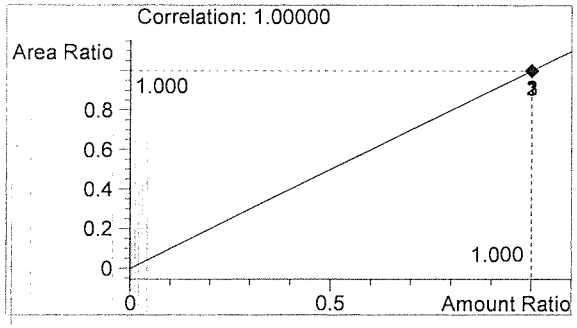
Sample Name: 0.10 CTRL
Operator: Rebecca Flaherty
Location: Vial 15



#	Compound	Peak Area	RT (min)
1	Ethanol	1239	1.084
2	n-Propanol	2626	1.763



Ethanol 0.102 g/100mL

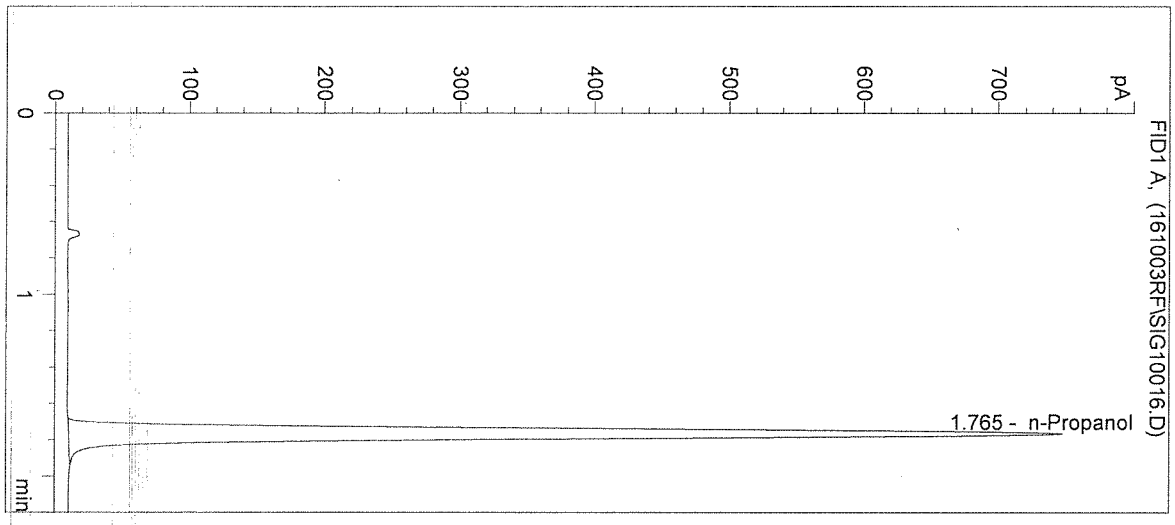


n-Propanol 0.012 g/100mL

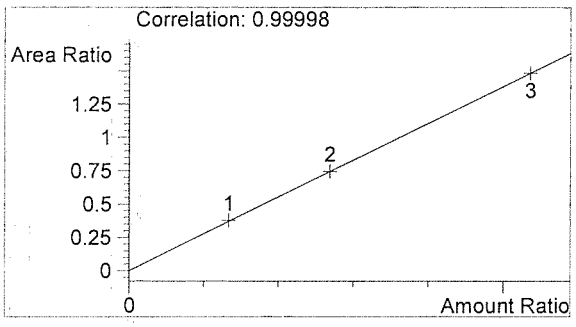
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/3/2016 1:50:42 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

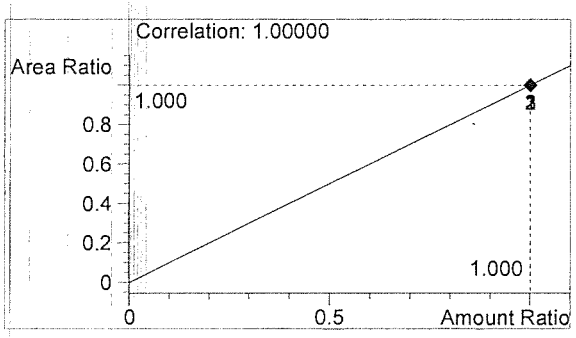
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 16



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2785	1.765



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

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

Sequence Parameters:

Operator:	Andrew Gingras
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:	161005AG
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
n-Propanol ISTD - LOT# P0916 - 12/21/2016
CTRL 1 (0.04g/100mL) - LOT# FN05011301 - EXP 5/2018
CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
CTRL 3 (0.20g/100mL) - LOT# FN03211401 - EXP 6/2019

Calibrators and controls filed with 16035.

Diluter # 3

AG 10/5/16

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	QAP 16035 #1	SIMALC1	1	Sample		
11	Vial 11	QAP 16035 #2	SIMALC1	1	Sample		
12	Vial 12	QAP 16035 #3	SIMALC1	1	Sample		
13	Vial 13	QAP 16035 #4	SIMALC1	1	Sample		
14	Vial 14	QAP 16030 #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	QAP 16037 #1	SIMALC1	1	Sample		
18	Vial 18	QAP 16037 #2	SIMALC1	1	Sample		
19	Vial 19	QAP 16037 #3	SIMALC1	1	Sample		
20	Vial 20	QAP 16037 #4	SIMALC1	1	Sample		
21	Vial 21	QAP 16037 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	QAP 16038 #1	SIMALC1	1	Sample		
25	Vial 25	QAP 16038 #2	SIMALC1	1	Sample		
26	Vial 26	QAP 16038 #3	SIMALC1	1	Sample		

16035
Jn 10/12/16

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

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
27	Vial 27	QAP 16038 #4	SIMALC1	1	Sample		
28	Vial 28	QAP 16038 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	QAP 16039 #1	SIMALC1	1	Sample		
32	Vial 32	QAP 16039 #2	SIMALC1	1	Sample		
33	Vial 33	QAP 16039 #3	SIMALC1	1	Sample		
34	Vial 34	QAP 16039 #4	SIMALC1	1	Sample		
35	Vial 35	QAP 16039 #5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	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!

16035

fn 10/12/16

AG

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

Calibration Table

Calib. Data Modified : Wednesday, October 05, 2016 10:48:03 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]	Lvl	Sig	Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.086	1	1	8.00100e-2	995.56036	8.03668e-5	1		Ethanol
		2	1.61200e-1	1967.86450	8.19162e-5			
		3	3.21790e-1	3900.73755	8.24947e-5			
1.765	1	1	1.20000e-2	2688.28638	4.46381e-6	I1		n-Propanol
		2	1.20000e-2	2667.38745	4.49878e-6			
		3	1.20000e-2	2649.38525	4.52935e-6			

16035

10/12/16

Peak Sum Table

No Entries in table

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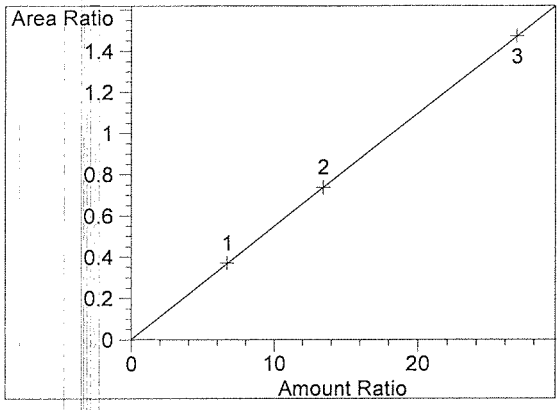
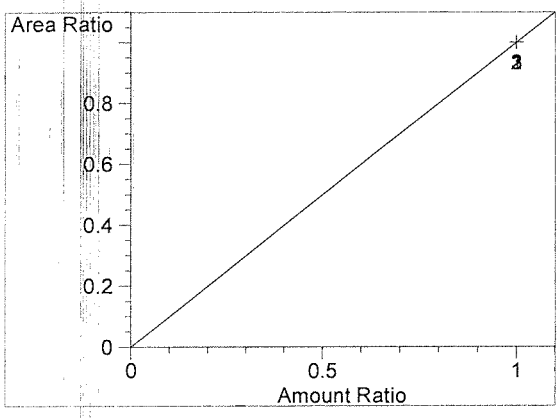
Calibration Curves

==========



Ethanol at exp. RT: 1.086
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 0.00245
Formula: y = mx + b
m: 5.48509e-2
b: 1.74427e-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

==========

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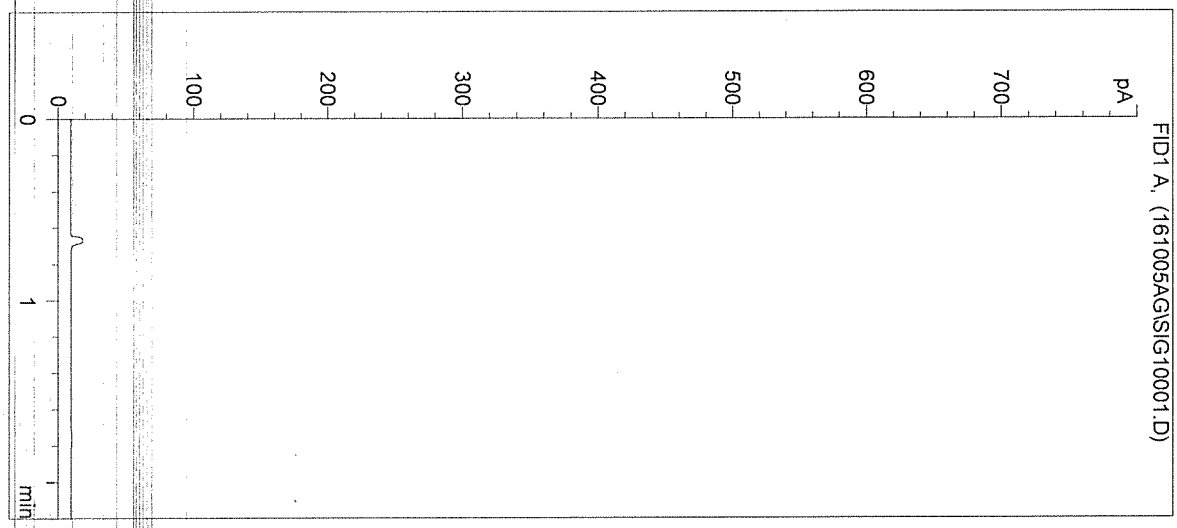
10/12/16

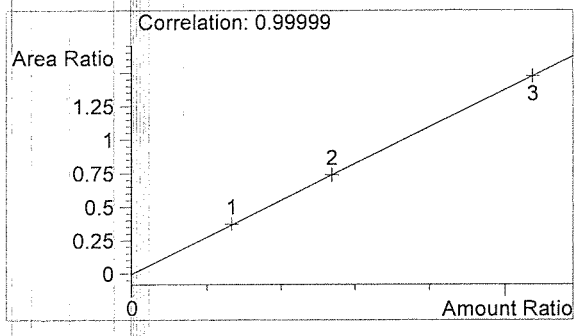
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:35:59 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

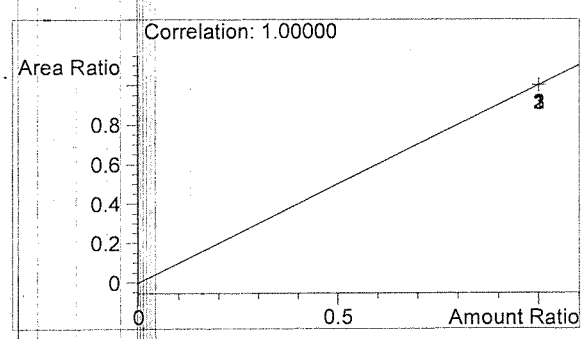
Sample Name: BLANK
Operator: Andrew Gingras
Location: Vial 1



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



Ethanol 0.000 g/100mL

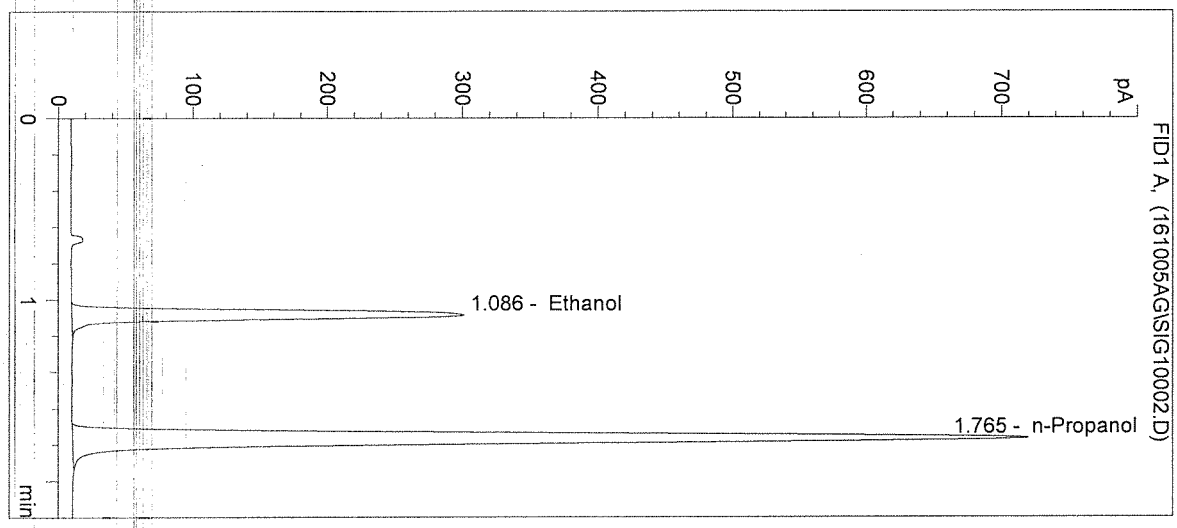


n-Propanol 0.000 g/100mL

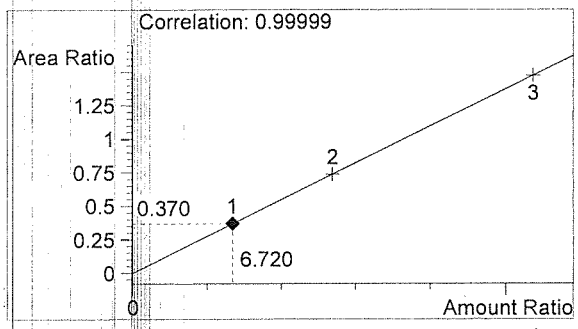
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:39:17 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

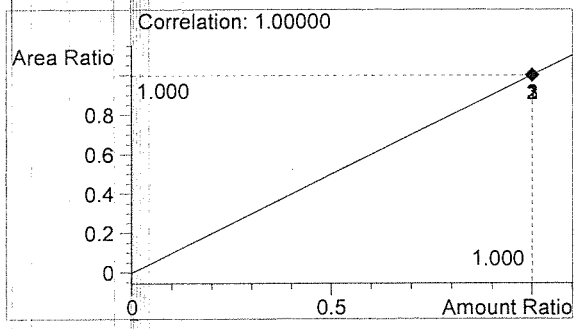
Sample Name: 0.079 CAL 1
Operator: Andrew Gingras
Location: Vial 2



#	Compound	Peak Area	RT (min)
1	Ethanol	996	1.086
2	n-Propanol	2688	1.765



Ethanol 0.081 g/100mL

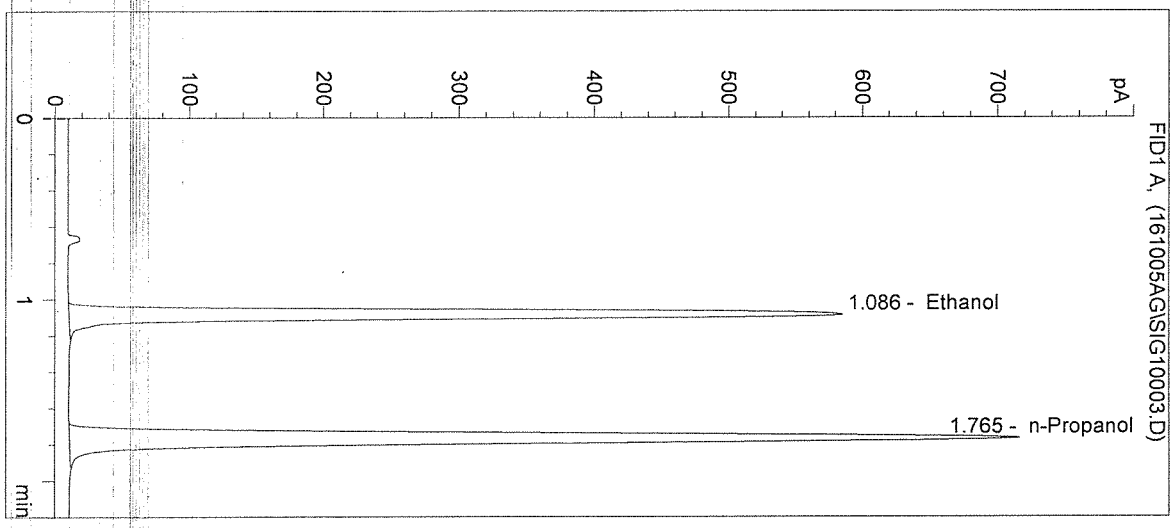


n-Propanol 0.012 g/100mL

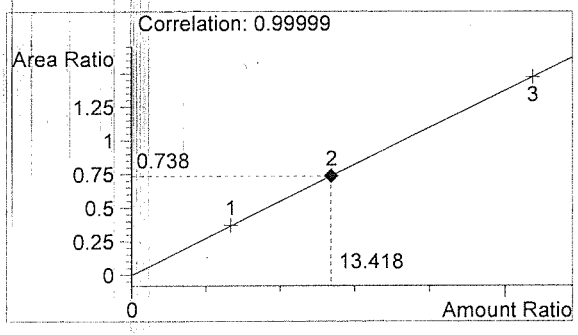
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:42:33 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

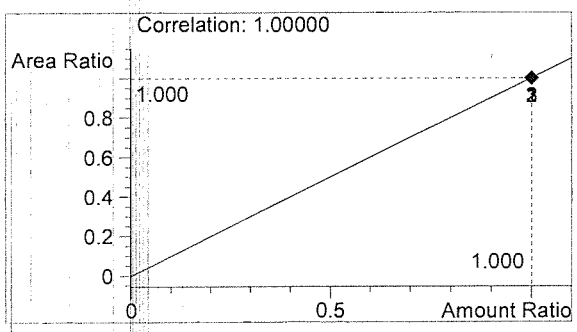
Sample Name: 0.158 CAL 2
Operator: Andrew Gingras
Location: Vial 3



#	Compound	Peak Area	RT (min)
1	Ethanol	1968	1.086
2	n-Propanol	2667	1.765



Ethanol 0.161 g/100mL

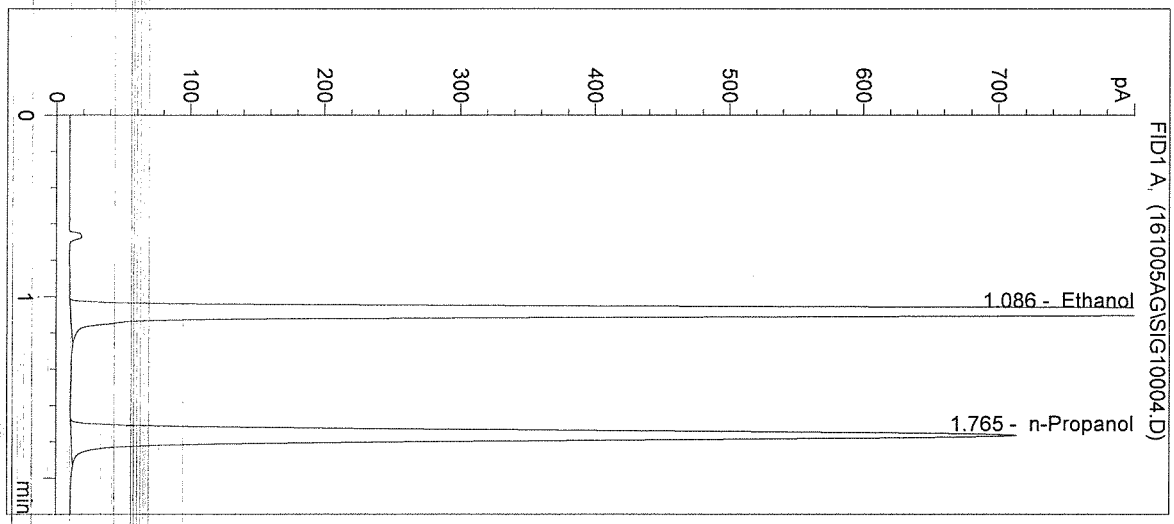


n-Propanol 0.012 g/100mL

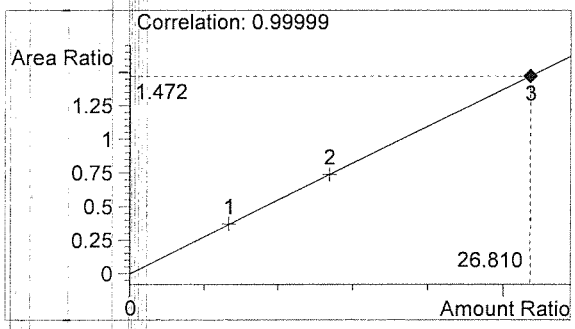
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:45:50 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

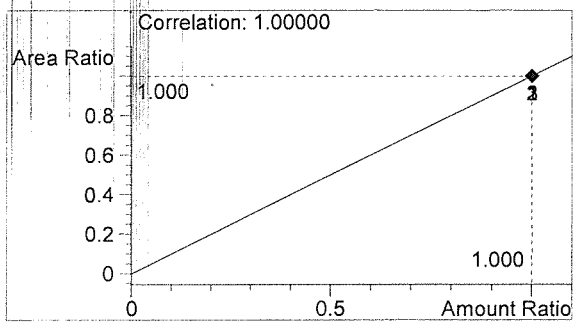
Sample Name: 0.316 CAL 3
Operator: Andrew Gingras
Location: Vial 4



#	Compound	Peak Area	RT (min)
1	Ethanol	3901	1.086
2	n-Propanol	2649	1.765



Ethanol 0.322 g/100mL

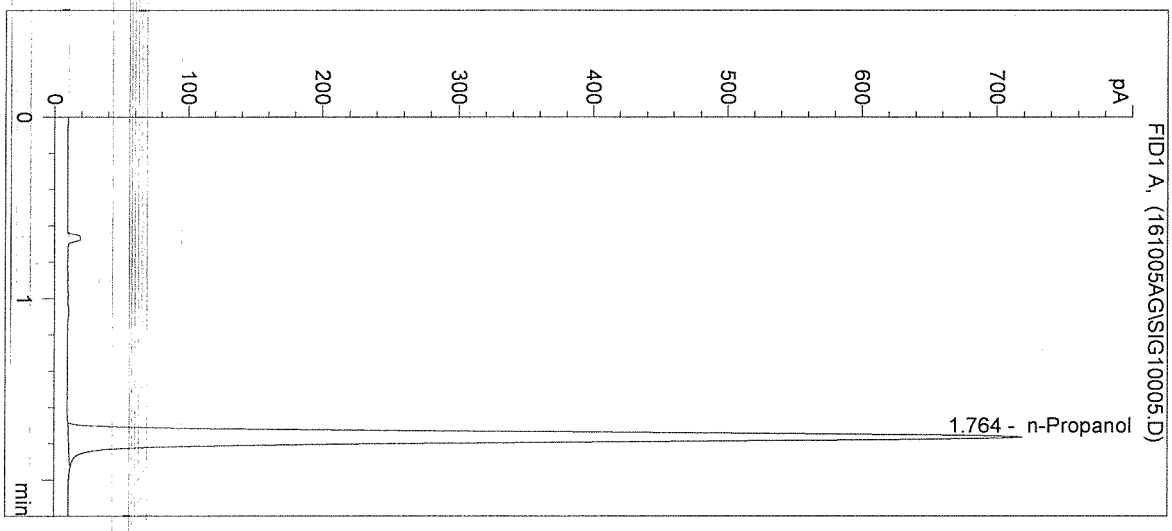


n-Propanol 0.012 g/100mL

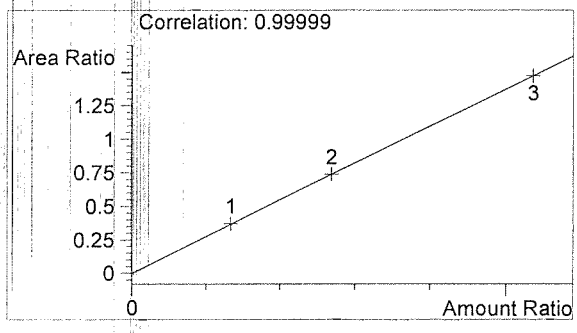
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:49:03 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

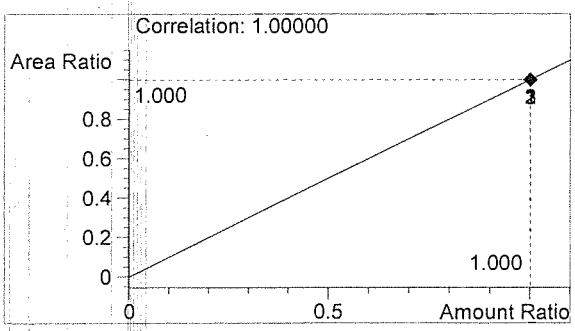
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 5



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2666	1.764



Ethanol 0.000 g/100mL

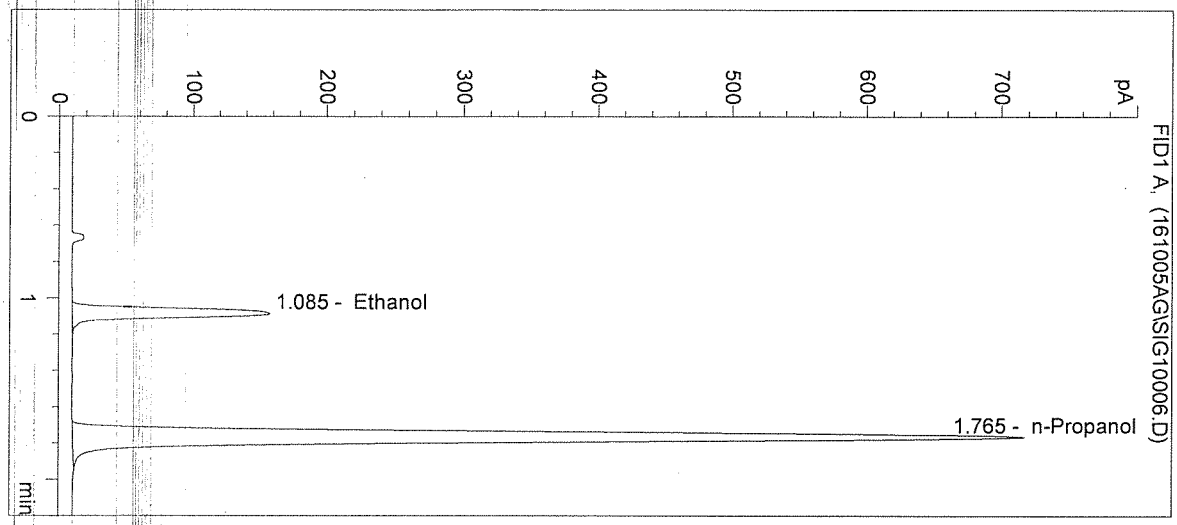


n-Propanol 0.012 g/100mL

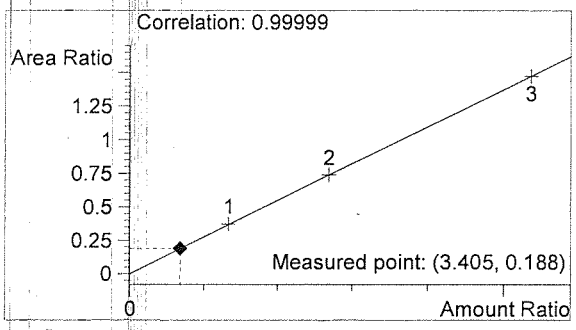
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:52:17 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

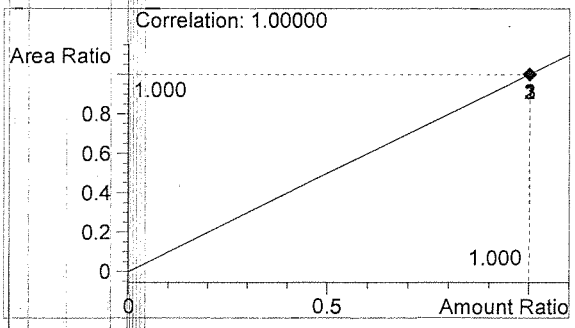
Sample Name: 0.04 CTRL
Operator: Andrew Gingras
Location: Vial 6



#	Compound	Peak Area	RT (min)
1	Ethanol	503	1.085
2	n-Propanol	2670	1.765



Ethanol 0.041 g/100mL

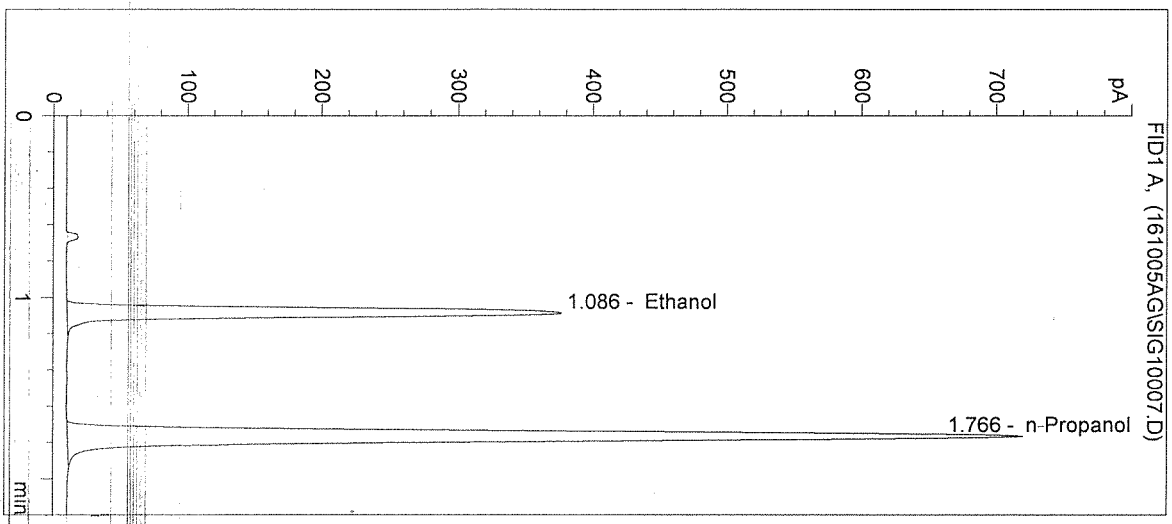


n-Propanol 0.012 g/100mL

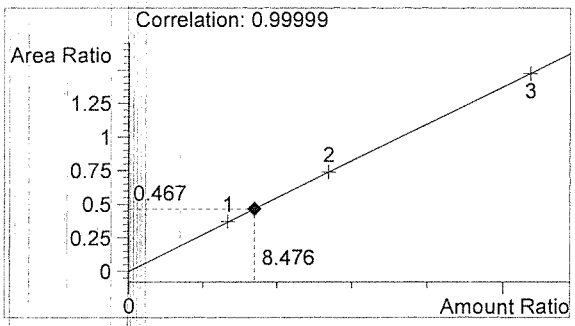
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:55:30 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

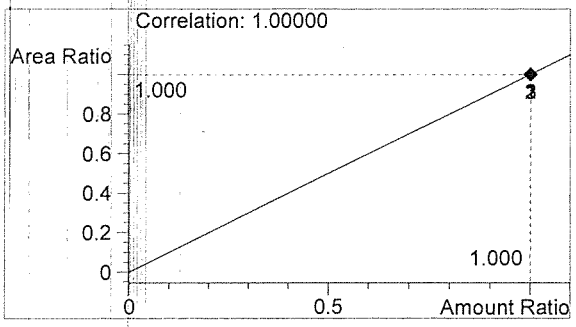
Sample Name: 0.10 CTRL
Operator: Andrew Gingras
Location: Vial 7



#	Compound	Peak Area	RT (min)
1	Ethanol	1251	1.086
2	n-Propanol	2680	1.766



Ethanol 0.102 g/100mL

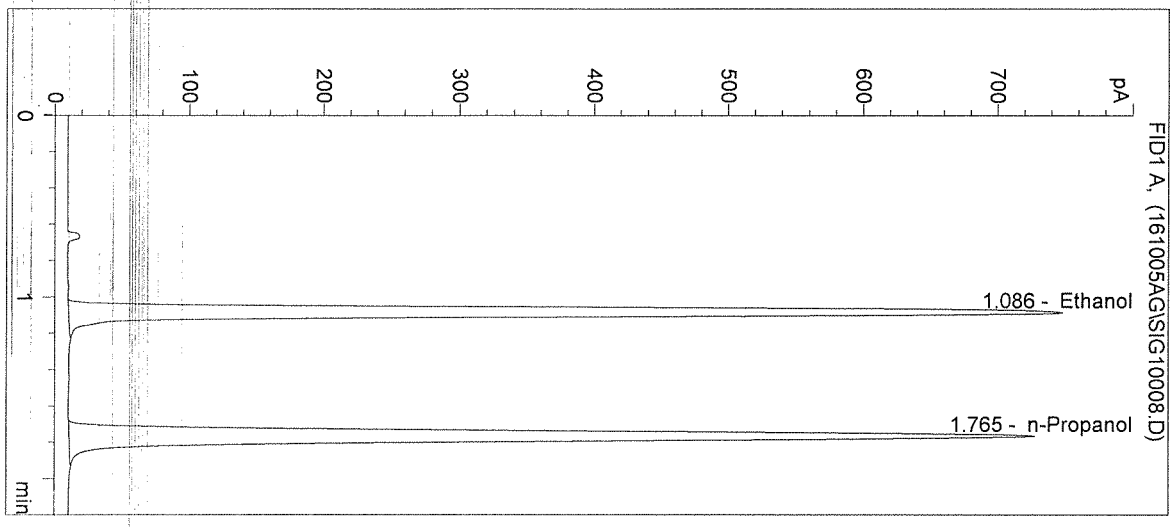


n-Propanol 0.012 g/100mL

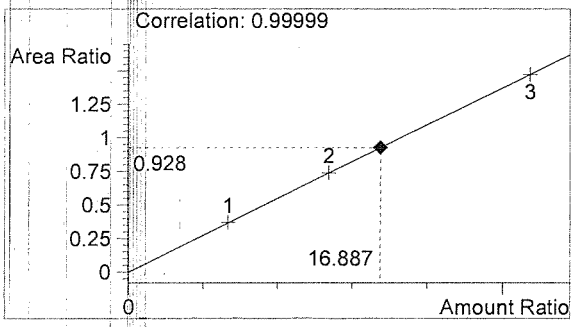
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 10:58:43 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

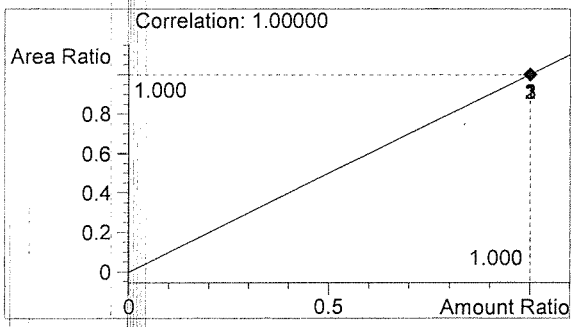
Sample Name: 0.20 CTRL
Operator: Andrew Gingras
Location: Vial 8



#	Compound	Peak Area	RT (min)
1	Ethanol	2507	1.086
2	n-Propanol	2701	1.765



Ethanol 0.203 g/100mL

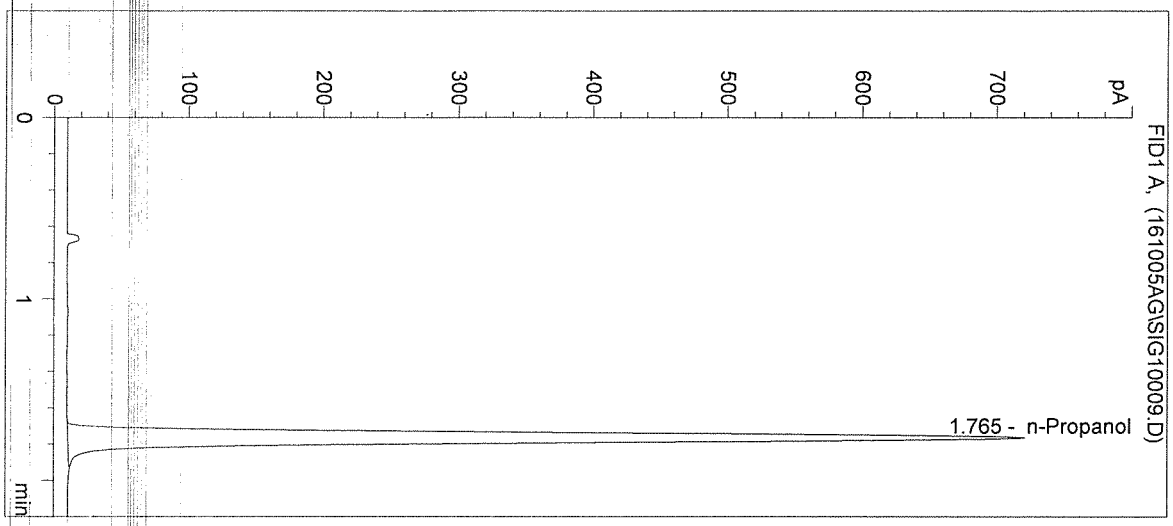


n-Propanol 0.012 g/100mL

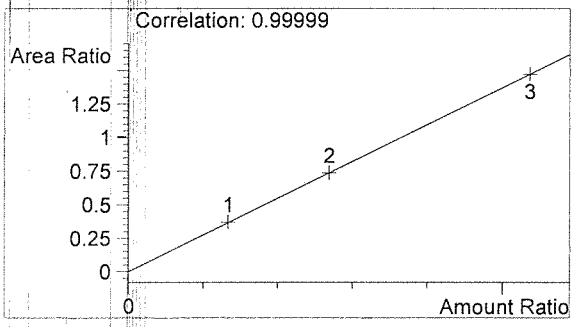
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:01:56 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

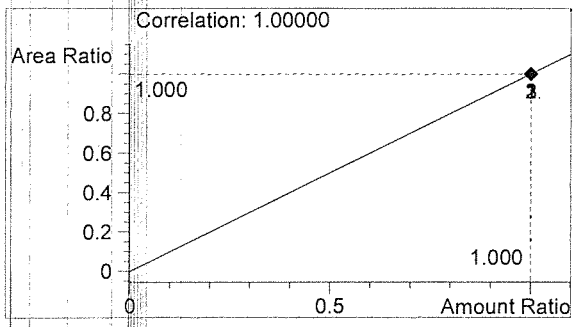
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 9



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2674	1.765



Ethanol 0.000 g/100mL

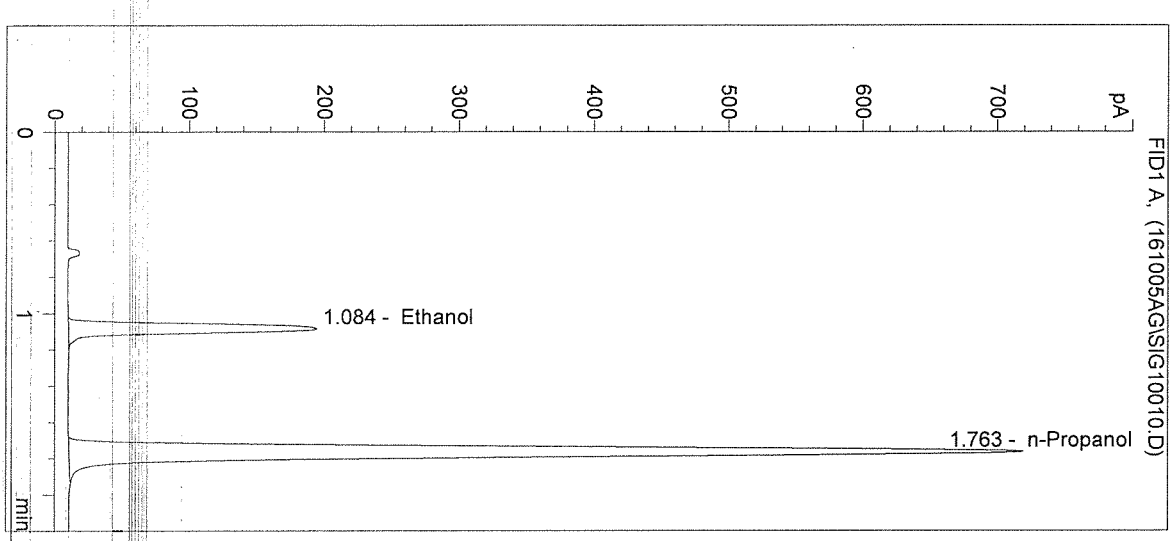


n-Propanol 0.012 g/100mL

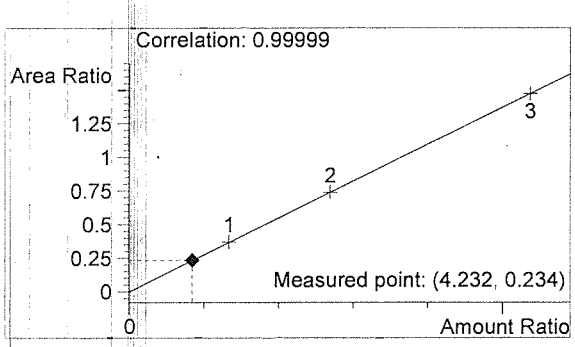
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:05:10 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

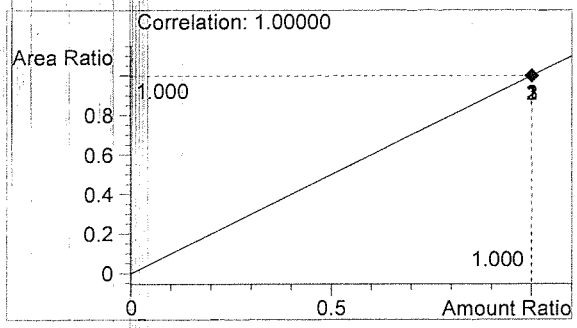
Sample Name: QAP 16035 #1
Operator: Andrew Gingras
Location: Vial 10



#	Compound	Peak Area	RT (min)
1	Ethanol	624	1.084
2	n-Propanol	2669	1.763



Ethanol 0.051 g/100mL

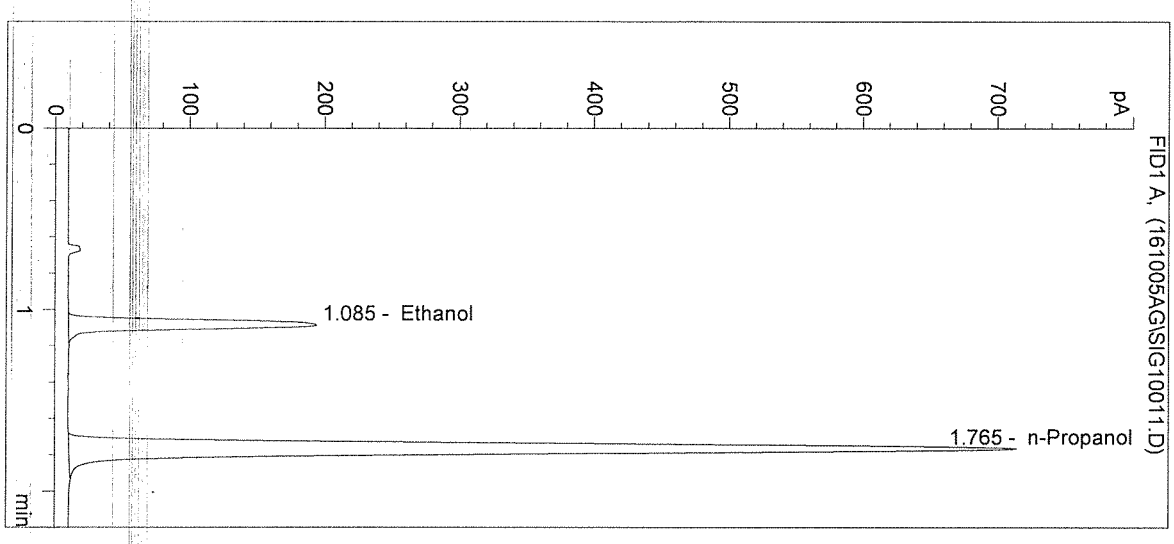


n-Propanol 0.012 g/100mL

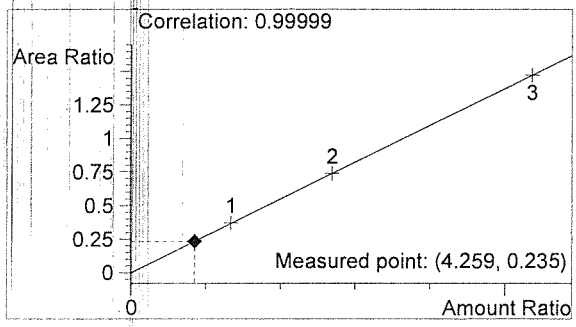
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:08:23 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

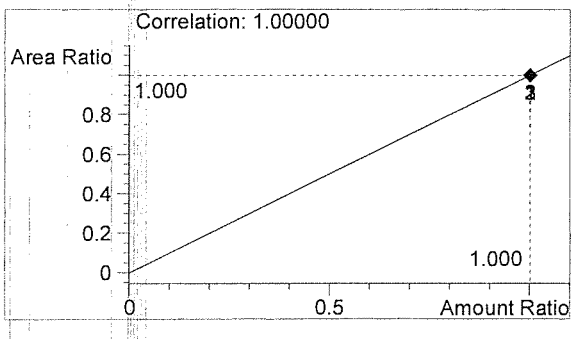
Sample Name: QAP 16035 #2
Operator: Andrew Gingras
Location: Vial 11



#	Compound	Peak Area	RT (min)
1	Ethanol	625	1.085
2	n-Propanol	2656	1.765



Ethanol 0.051 g/100mL

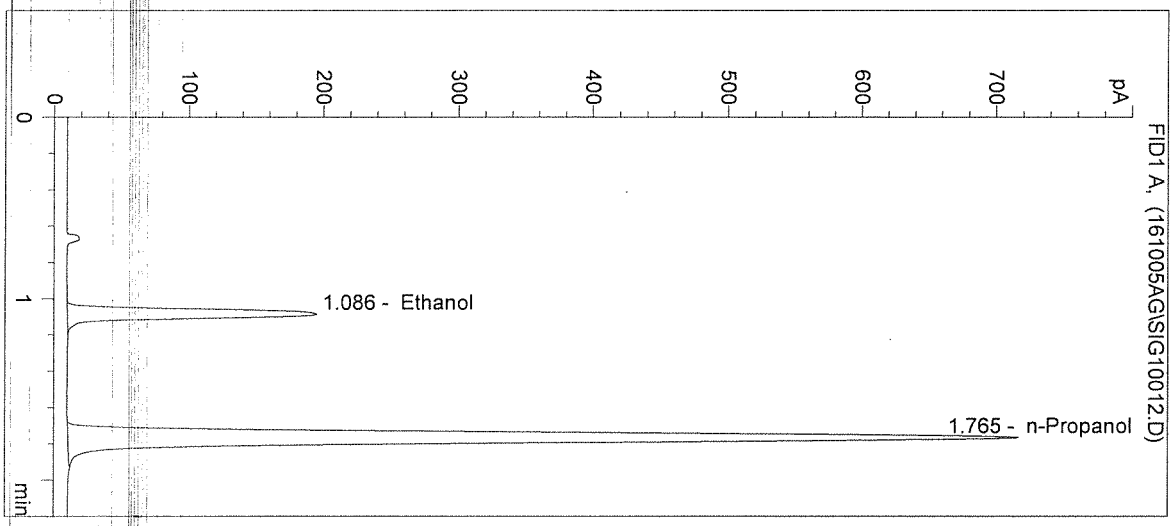


n-Propanol 0.012 g/100mL

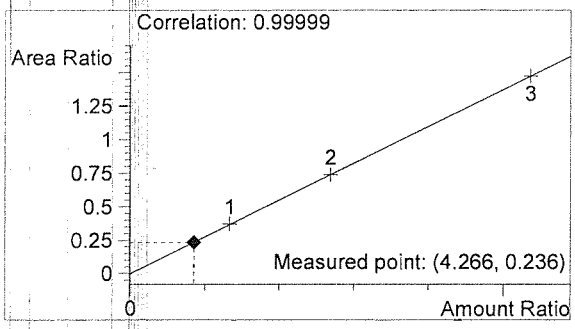
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:11:36 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

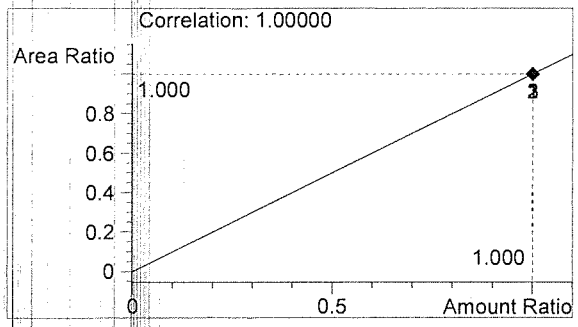
Sample Name: QAP 16035 #3
Operator: Andrew Gingras
Location: Vial 12



#	Compound	Peak Area	RT (min)
1	Ethanol	628	1.086
2	n-Propanol	2663	1.765



Ethanol 0.051 g/100mL

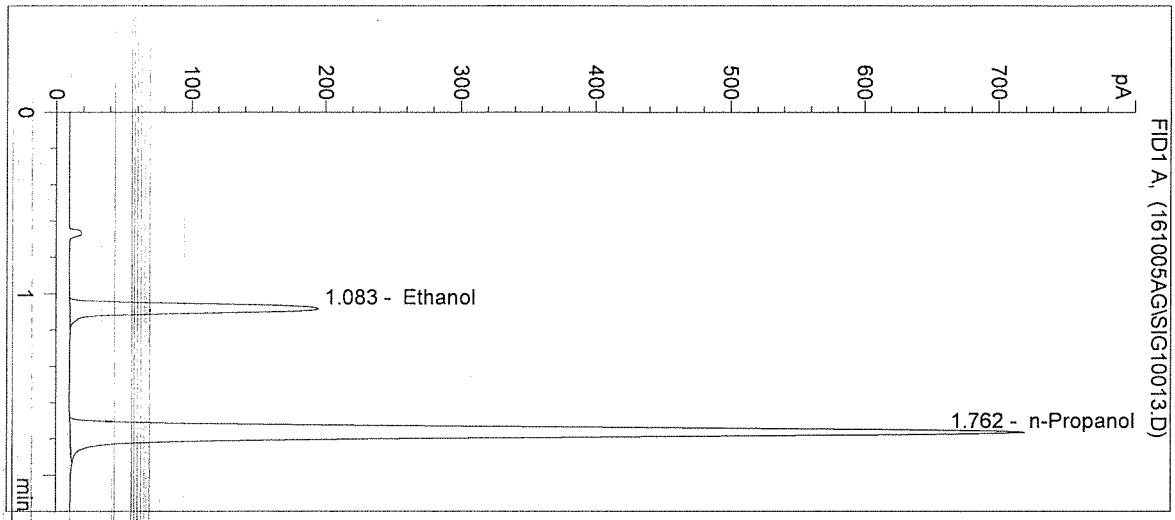


n-Propanol 0.012 g/100mL

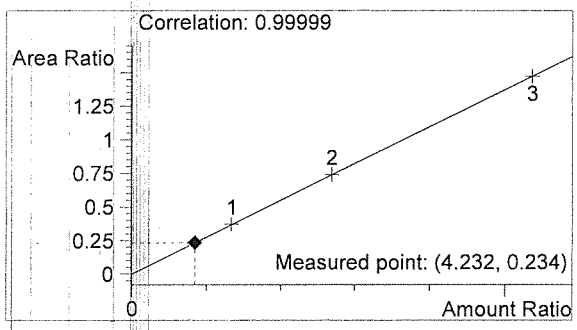
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:14:50 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

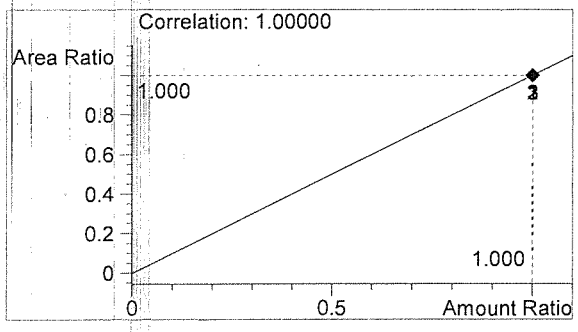
Sample Name: QAP 16035 #4
Operator: Andrew Gingras
Location: Vial 13



#	Compound	Peak Area	RT (min)
1	Ethanol	621	1.083
2	n-Propanol	2657	1.762



Ethanol 0.051 g/100mL

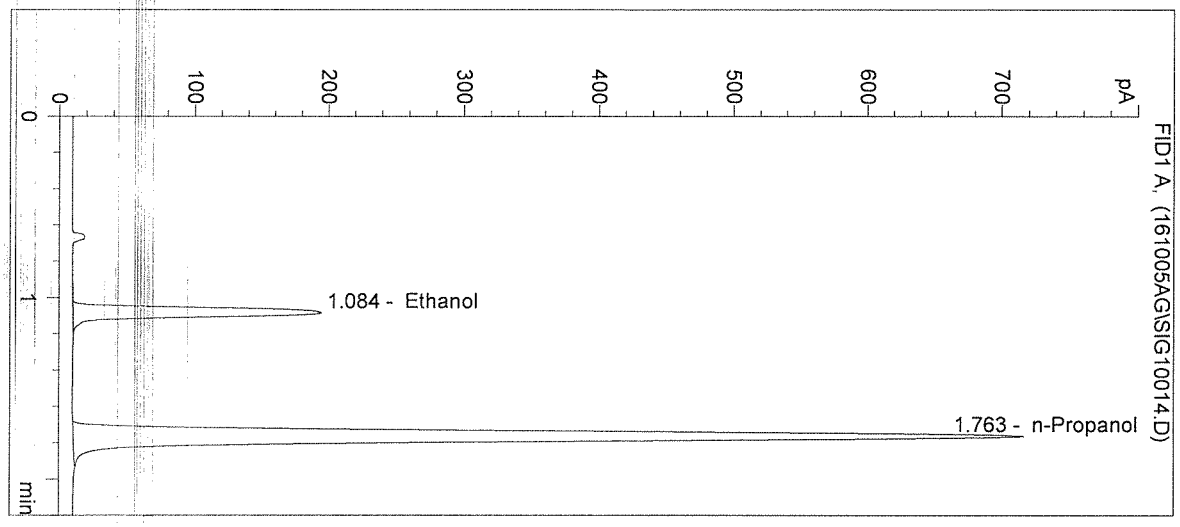


n-Propanol 0.012 g/100mL

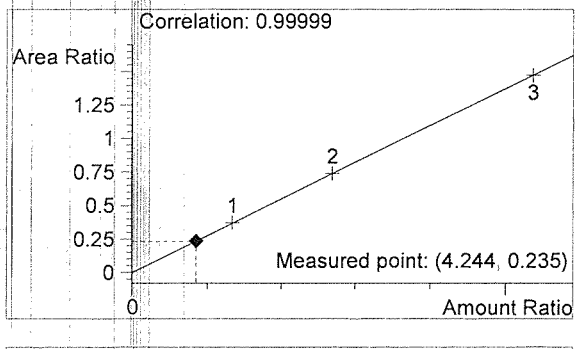
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:18:03 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

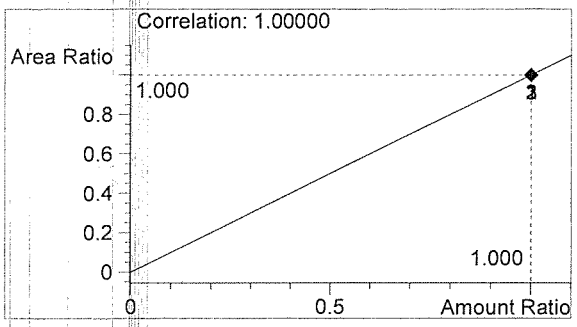
Sample Name: QAP 16030 #5
Operator: Andrew Gingras
Location: Vial 14



#	Compound	Peak Area	RT (min)
1	Ethanol	622	1.084
2	n-Propanol	2651	1.763



Ethanol 0.051 g/100mL

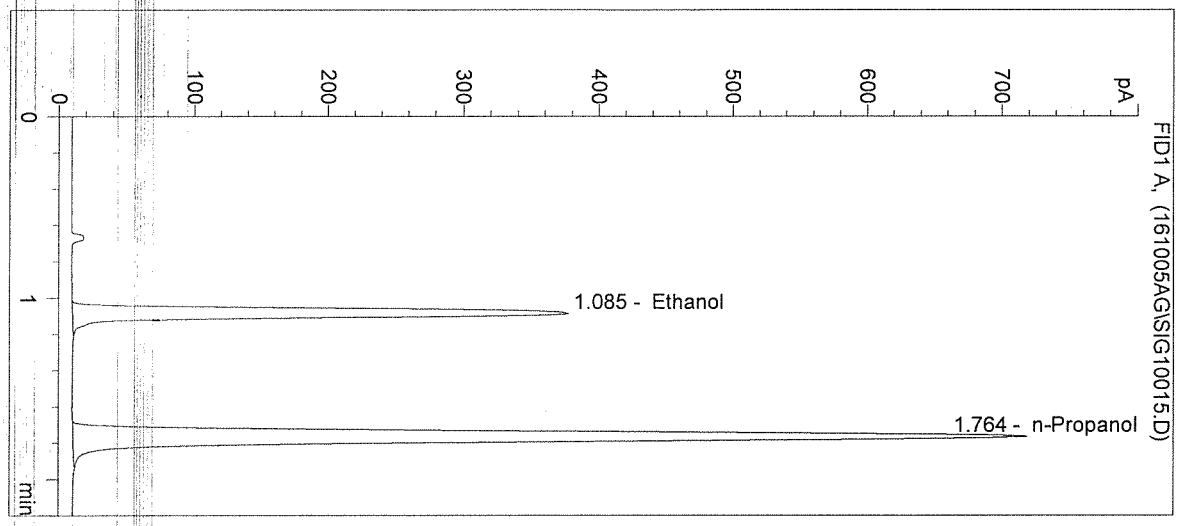


n-Propanol 0.012 g/100mL

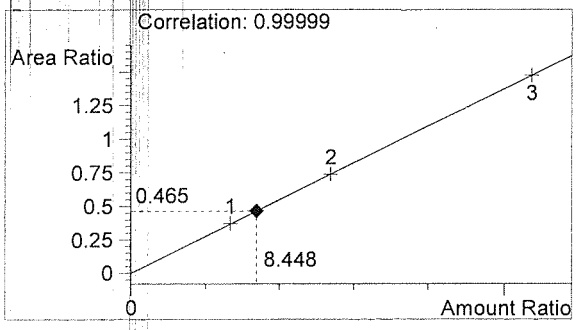
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:21:16 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

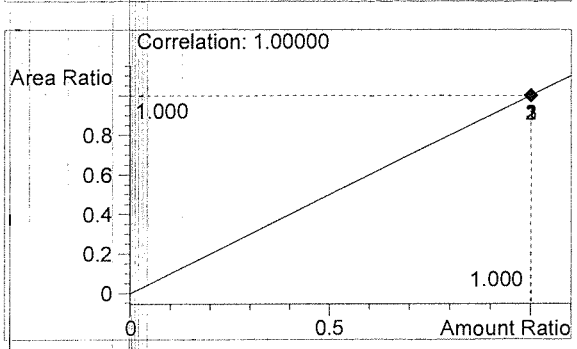
Sample Name: 0.10 CTRL
Operator: Andrew Gingras
Location: Vial 15



#	Compound	Peak Area	RT (min)
1	Ethanol	1238	1.085
2	n-Propanol	2661	1.764



Ethanol 0.101 g/100mL

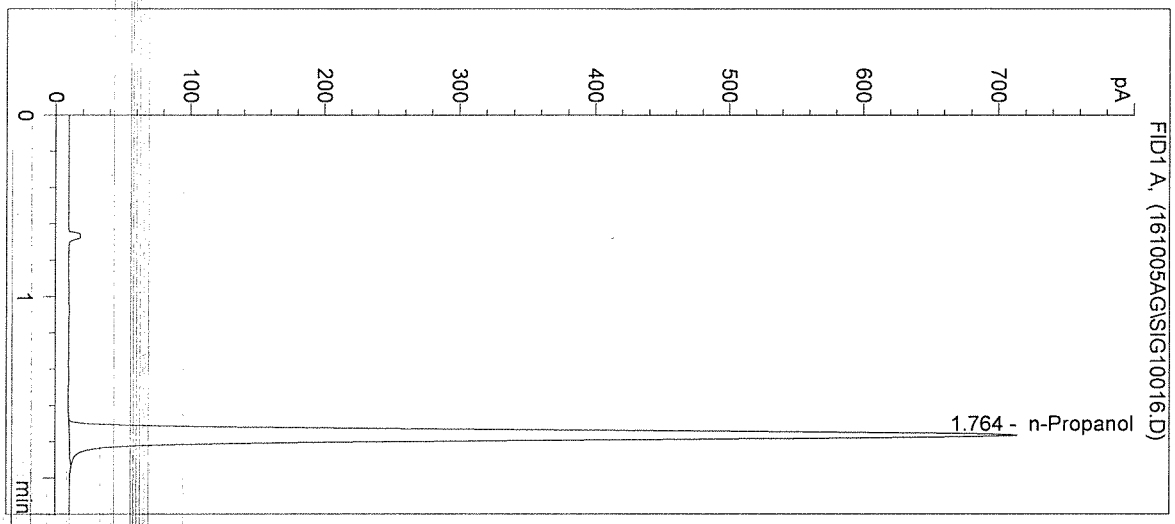


n-Propanol 0.012 g/100mL

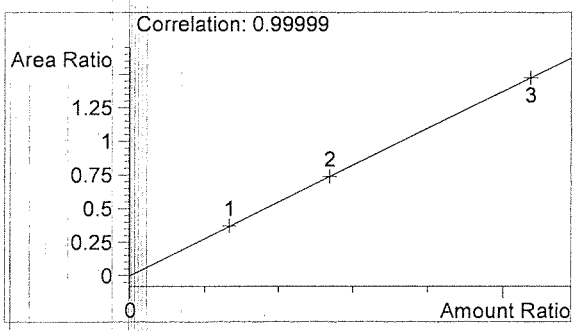
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/5/2016 11:24:30 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

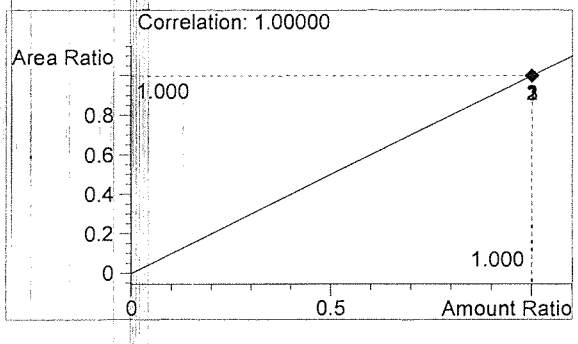
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 16



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2642	1.764



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

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:	161011DN
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: FN05011301 - X: 05/2018
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: P0916 - X: 12/21/16

Calibration vials 1-9 filed with 16035.

Extraneous peak in baseline at around 0.744-0.745 appears sporadically throughout run. Completely resolved from both ethanol and n-propanol. Run acceptable.
fn 10/12/16

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	16035 #1	SIMALC1	1	Sample		
11	Vial 11	16035 #2	SIMALC1	1	Sample		
12	Vial 12	16035 #3	SIMALC1	1	Sample		
13	Vial 13	16035 #4	SIMALC1	1	Sample		
14	Vial 14	16035 #5	SIMALC1	1	Sample		
15	Vial 15	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		
17	Vial 17	16037 #1	SIMALC1	1	Sample		
18	Vial 18	16037 #2	SIMALC1	1	Sample		
19	Vial 19	16037 #3	SIMALC1	1	Sample		
20	Vial 20	16037 #4	SIMALC1	1	Sample		
21	Vial 21	16037 #5	SIMALC1	1	Sample		
22	Vial 22	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	16038 #1	SIMALC1	1	Sample		

16035
fn 10/12/16

DN

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

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
25	Vial 25	16038 #2	SIMALC1	1	Sample		
26	Vial 26	16038 #3	SIMALC1	1	Sample		
27	Vial 27	16038 #4	SIMALC1	1	Sample		
28	Vial 28	16038 #5	SIMALC1	1	Sample		
29	Vial 29	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	16039 #1	SIMALC1	1	Sample		
32	Vial 32	16039 #2	SIMALC1	1	Sample		
33	Vial 33	16039 #3	SIMALC1	1	Sample		
34	Vial 34	16039 #4	SIMALC1	1	Sample		
35	Vial 35	16039 #5	SIMALC1	1	Sample		
36	Vial 36	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	SIMALC1	1	Ctrl Samp		

Calibration Part:

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

16035

10/12/16

DN

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

Calibration Table

Calib. Data Modified : Tuesday, October 11, 2016 10:49:02 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]	Lvl Sig		Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.088	1	1	8.00100e-2	989.02313	8.08980e-5	1		Ethanol
		2	1.61200e-1	1975.14294	8.16143e-5			
		3	3.21790e-1	3950.19141	8.14619e-5			
1.768	1	1	1.20000e-2	2647.41333	4.53273e-6	I1		n-Propanol
		2	1.20000e-2	2653.13623	4.52295e-6			
		3	1.20000e-2	2654.17358	4.52118e-6			

Peak Sum Table

No Entries in table

16035
10/12/16

DN

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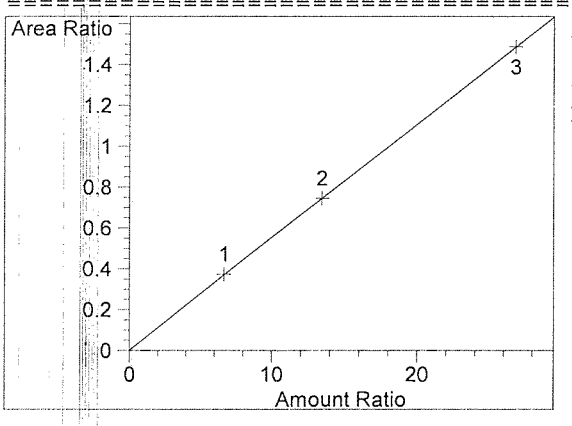
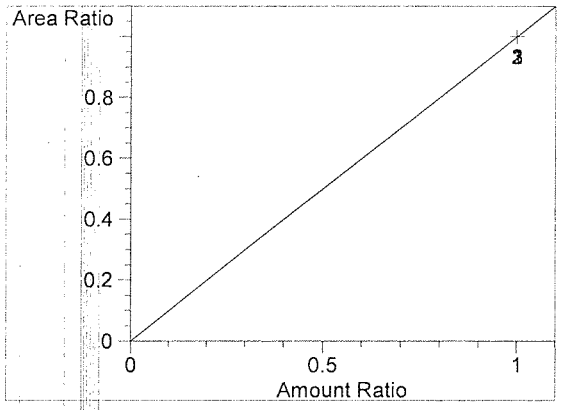
Calibration Curves

==========



Ethanol at exp. RT: 1.088
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00237
Formula: y = mx + b
m: 5.54504e-2
b: 1.19561e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.768
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

==========

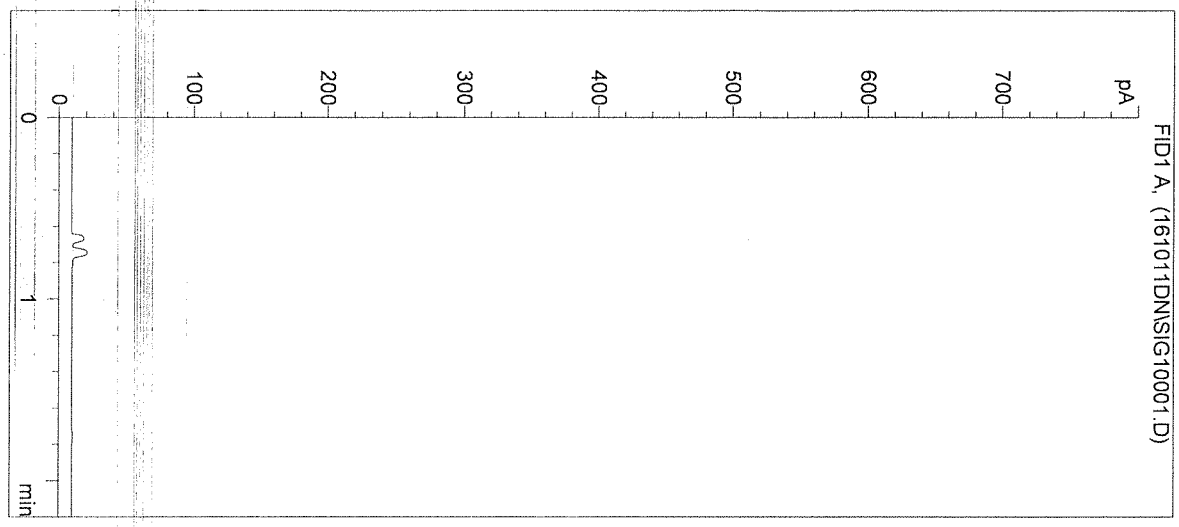
16035
fn 10/12/16

DN

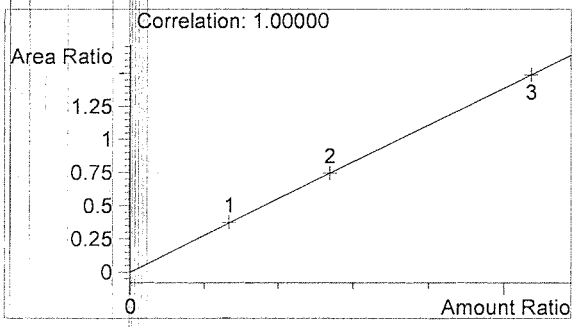
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 10:36:58 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

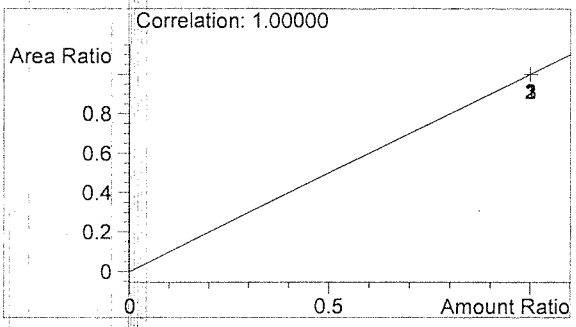
Sample Name: BLANK
Operator: David Nguyen
Location: Vial 1



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



Ethanol 0.000 g/100mL



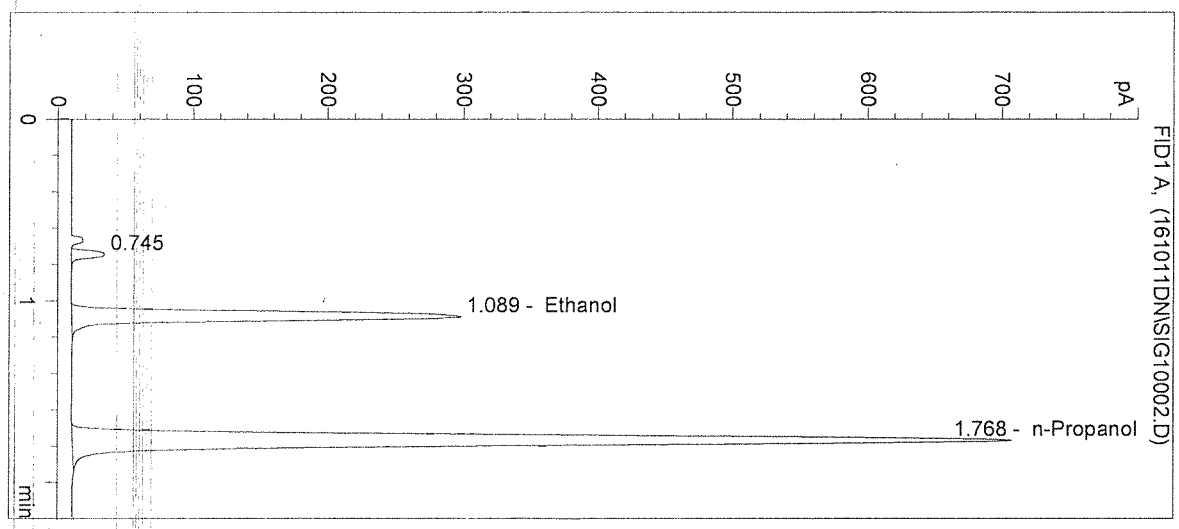
n-Propanol 0.000 g/100mL

DN

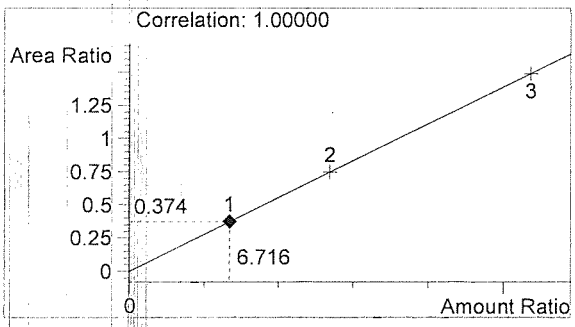
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 10:40:15 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 1: 0.079 g/100mL
16035

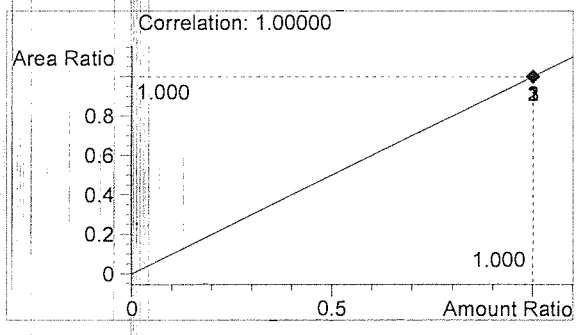
Sample Name: CAL 1 (0.079)
Operator: David Nguyen
Location: Vial 2



#	Compound	Peak Area	RT (min)
1		65	0.745
2	Ethanol	989	1.089
3	n-Propanol	2647	1.768



Ethanol 0.081 g/100mL



n-Propanol 0.012 g/100mL

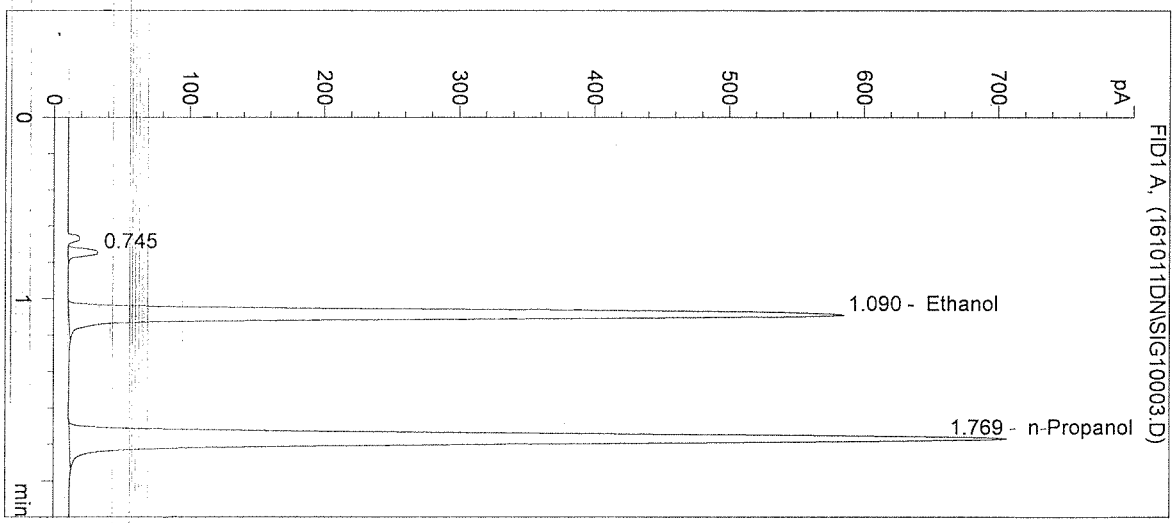
DN

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

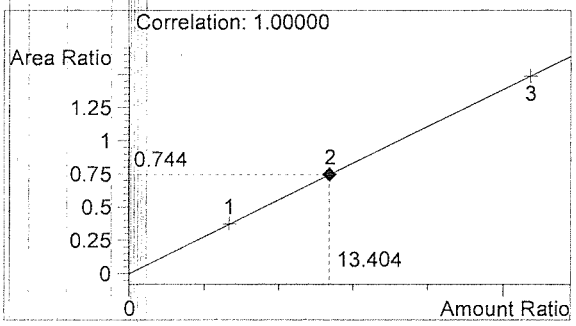
Inj. Date: 10/11/2016 10:43:32 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 2: 0.158 g/100mL
16035

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

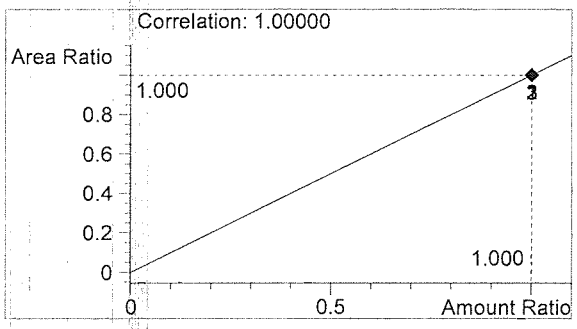
->



#	Compound	Peak Area	RT (min)
1		59	0.745
2	Ethanol	1975	1.090
3	n-Propanol	2653	1.769



Ethanol 0.161 g/100mL



n-Propanol 0.012 g/100mL

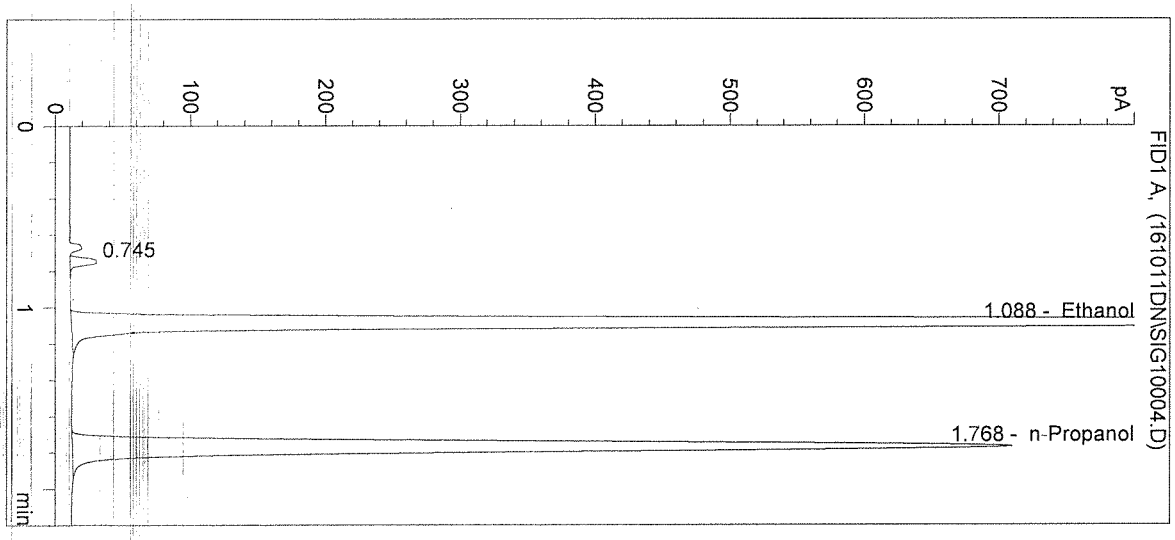
DN

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

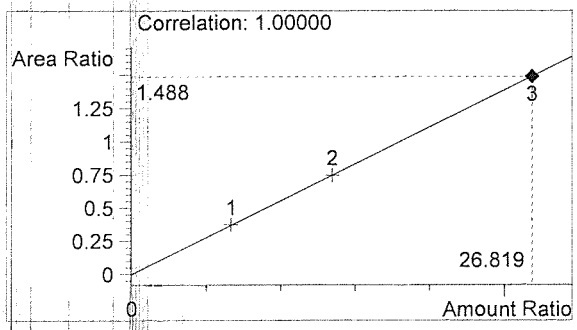
Inj. Date: 10/11/2016 10:46:49 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 3: 0.316 g/100mL
16035

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

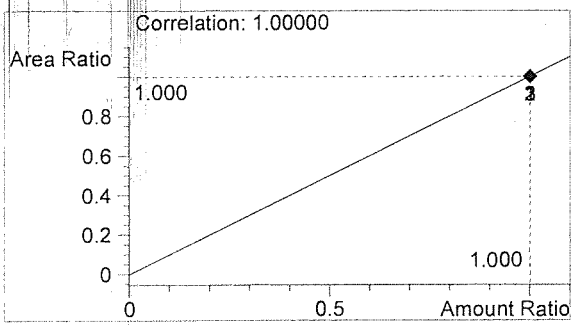
->



#	Compound	Peak Area	RT (min)
1		53	0.745
2	Ethanol	3950	1.088
3	n-Propanol	2654	1.768



Ethanol 0.322 g/100mL



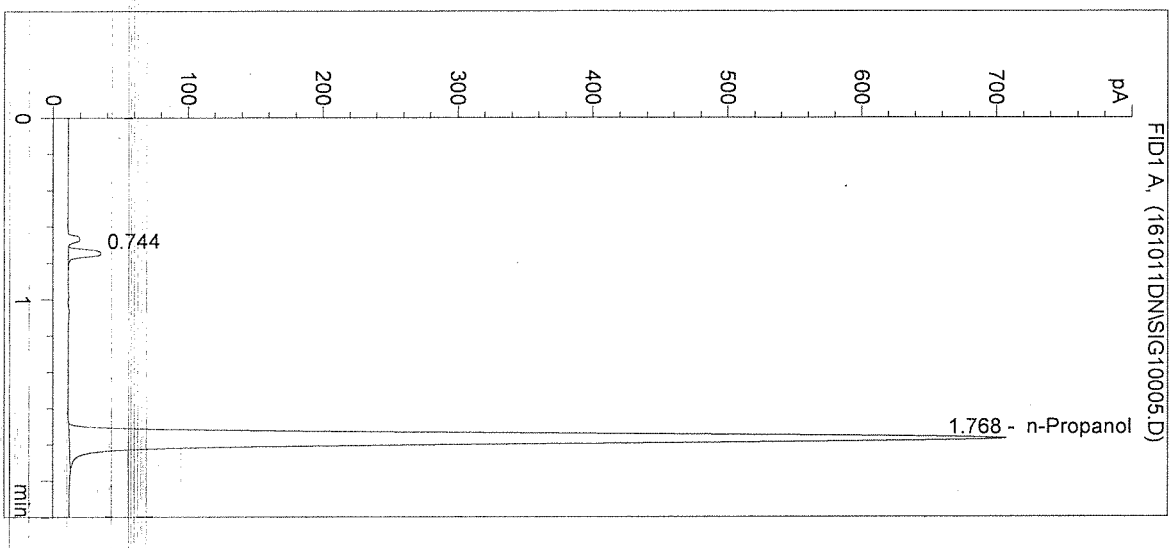
n-Propanol 0.012 g/100mL

DN

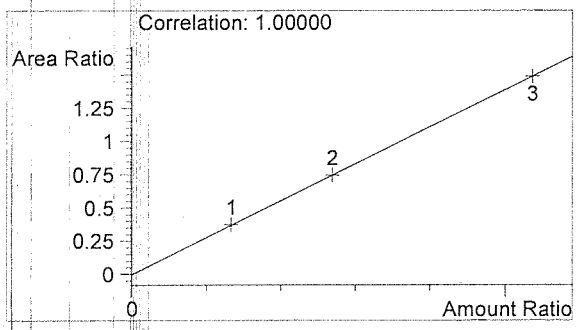
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 10:50:02 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

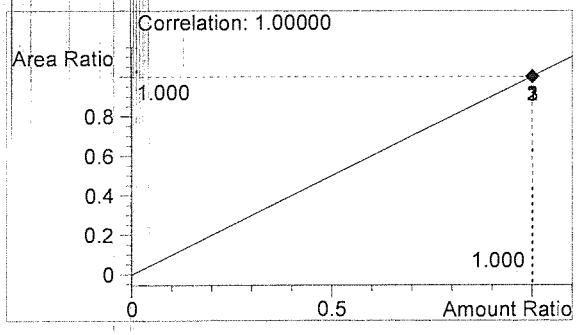
Sample Name: NEG CTRL
Operator: David Nguyen
Location: Vial 5



#	Compound	Peak Area	RT (min)
1		65	0.744
2	Ethanol	0	0.000
3	n-Propanol	2644	1.768



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

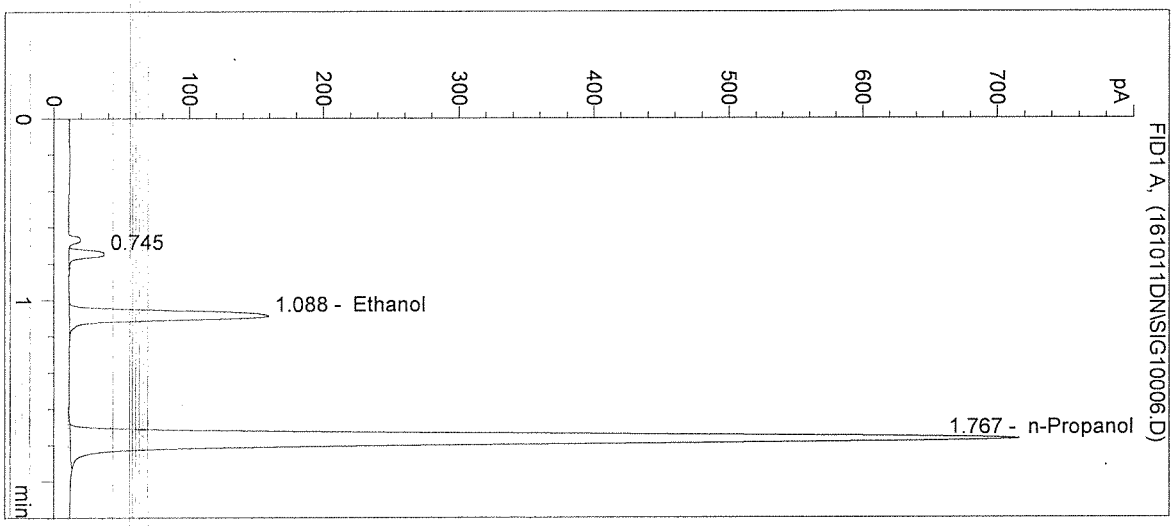
DN

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

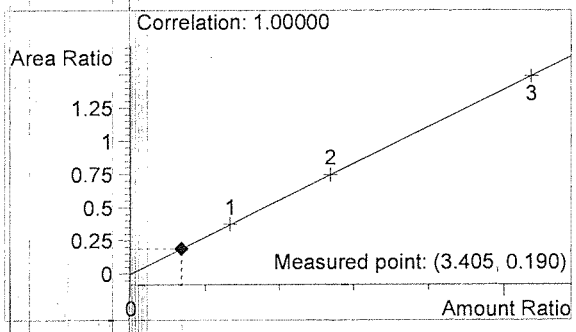
Inj. Date: 10/11/2016 10:53:16 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 1: 0.04 g/100mL
16035

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

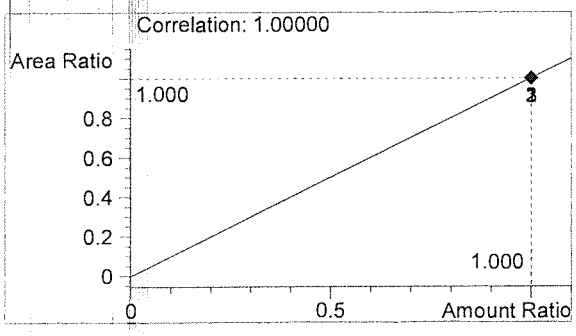
->



#	Compound	Peak Area	RT (min)
1		70	0.745
2	Ethanol	509	1.088
3	n-Propanol	2679	1.767



Ethanol 0.041 g/100mL



n-Propanol 0.012 g/100mL

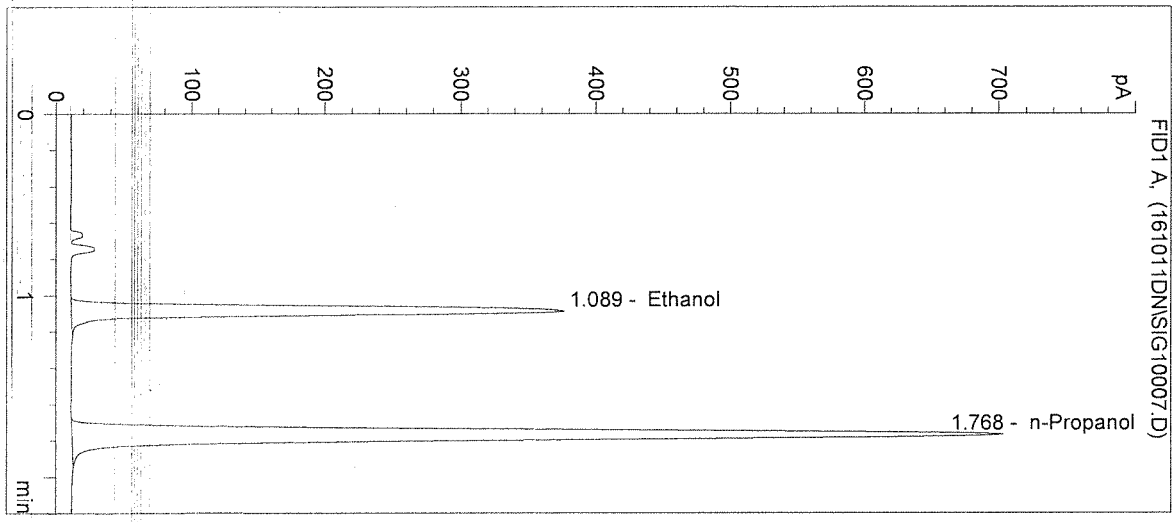
DN

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

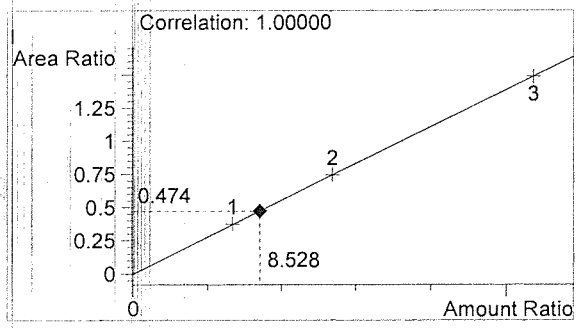
Inj. Date: 10/11/2016 10:56:29 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 2: 0.10 g/100mL
16035

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

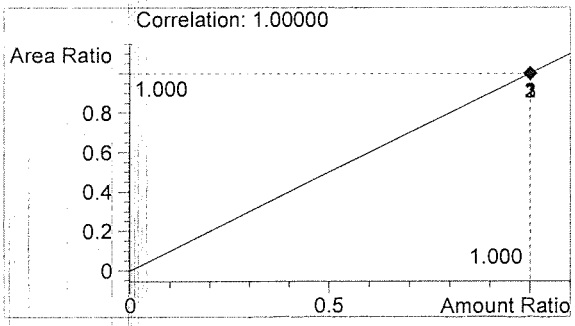
->



#	Compound	Peak Area	RT (min)
1	Ethanol	1249	1.089
2	n-Propanol	2635	1.768



Ethanol 0.102 g/100mL



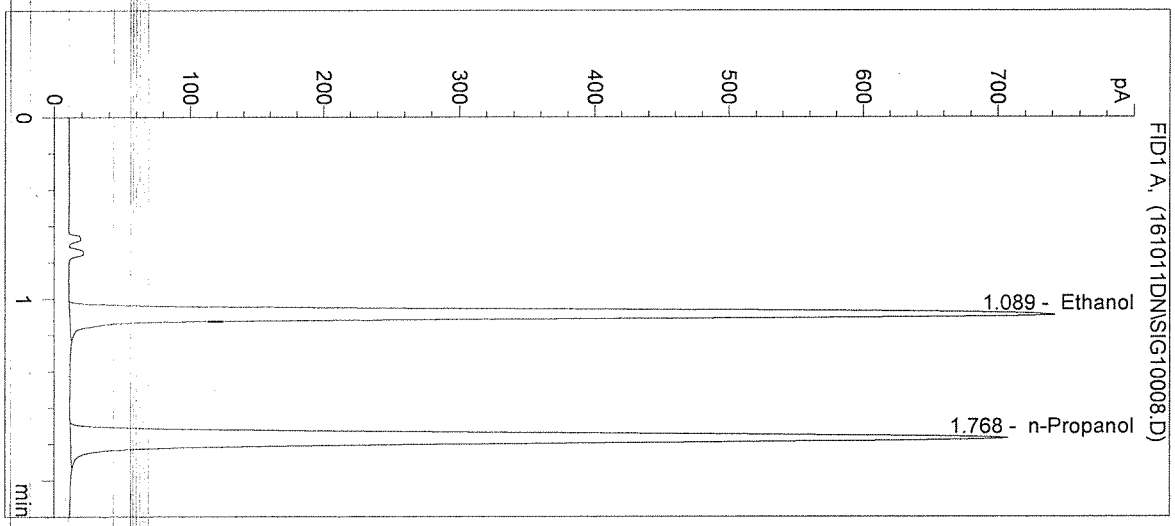
n-Propanol 0.012 g/100mL

DN

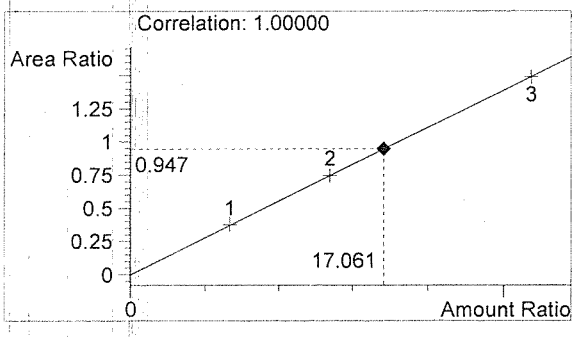
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 10:59:42 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 3: 0.20 g/100mL
16035

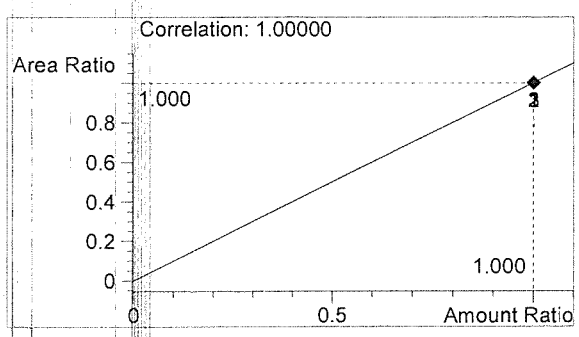
Sample Name: CTRL 3 (0.20)
Operator: David Nguyen
Location: Vial 8



#	Compound	Peak Area	RT (min)
1	Ethanol	2509	1.089
2	n-Propanol	2649	1.768



Ethanol 0.205 g/100mL



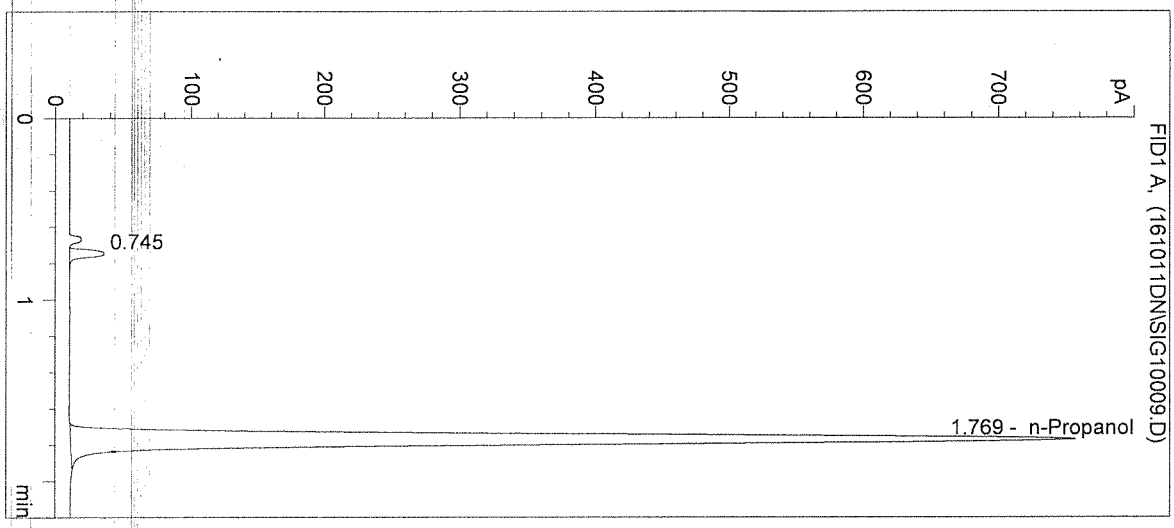
n-Propanol 0.012 g/100mL

DN

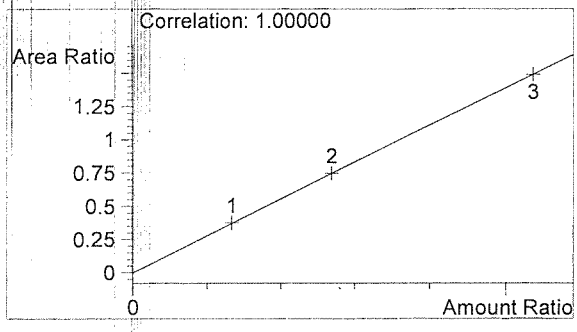
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 11:02:55 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

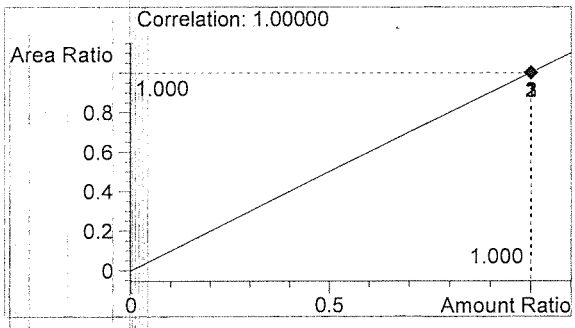
Sample Name: NEG CTRL
Operator: David Nguyen
Location: Vial 9



#	Compound	Peak Area	RT (min)
1		67	0.745
2	Ethanol	0	0.000
3	n-Propanol	2855	1.769



Ethanol 0.000 g/100mL



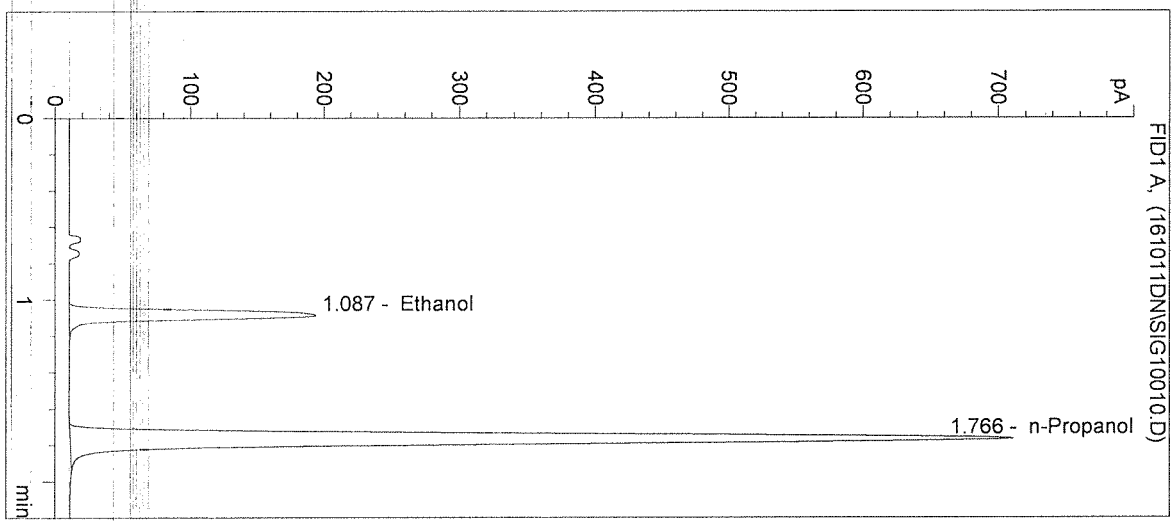
n-Propanol 0.012 g/100mL

DN

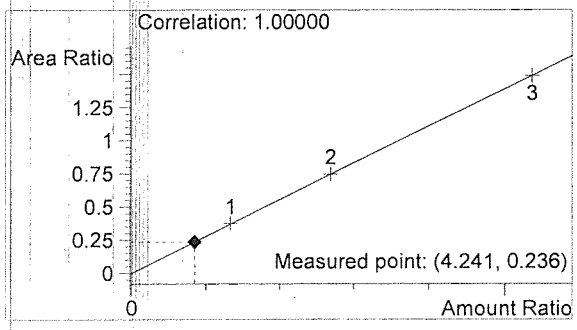
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 11:06:08 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

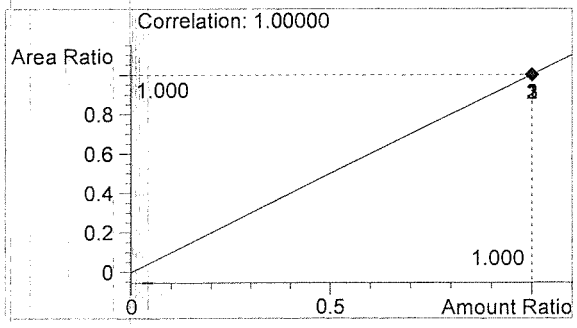
Sample Name: 16035 #1
Operator: David Nguyen
Location: Vial 10



#	Compound	Peak Area	RT (min)
1	Ethanol	627	1.087
2	n-Propanol	2651	1.766



Ethanol 0.051 g/100mL



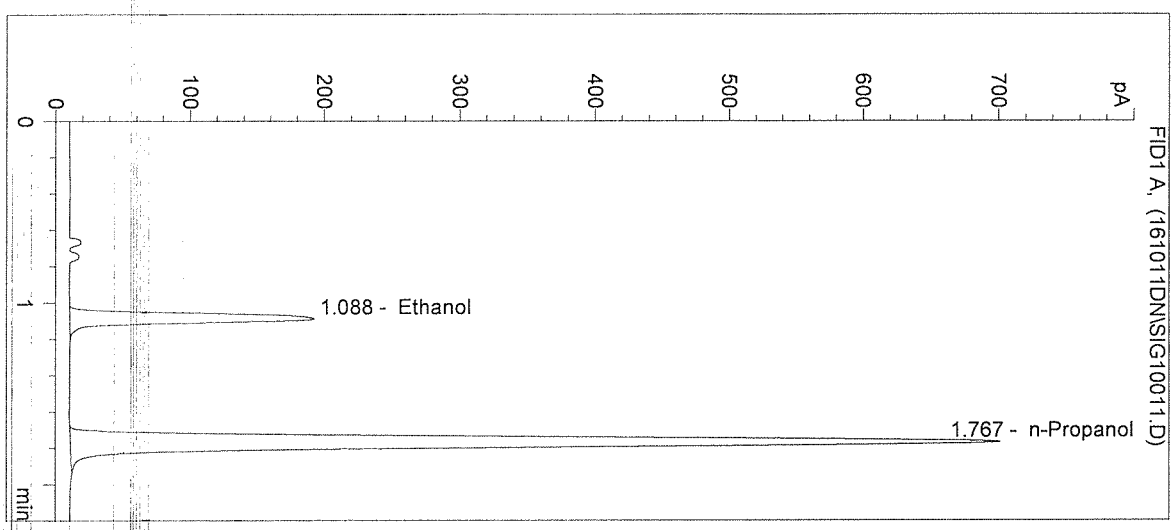
n-Propanol 0.012 g/100mL

DN

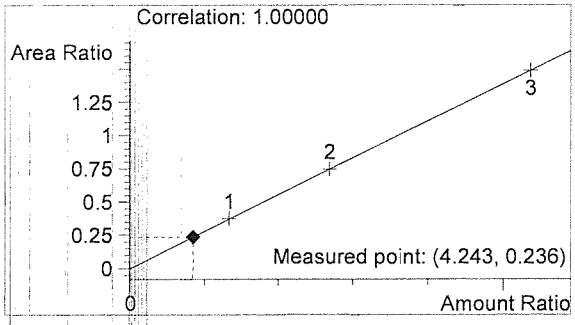
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 11:09:22 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

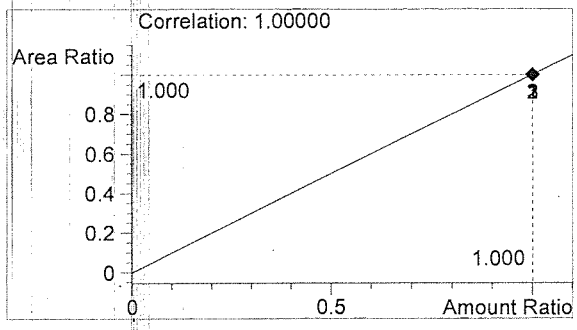
Sample Name: 16035 #2
Operator: David Nguyen
Location: Vial 11



#	Compound	Peak Area	RT (min)
1	Ethanol	621	1.088
2	n-Propanol	2626	1.767



Ethanol 0.051 g/100mL



n-Propanol 0.012 g/100mL

DN

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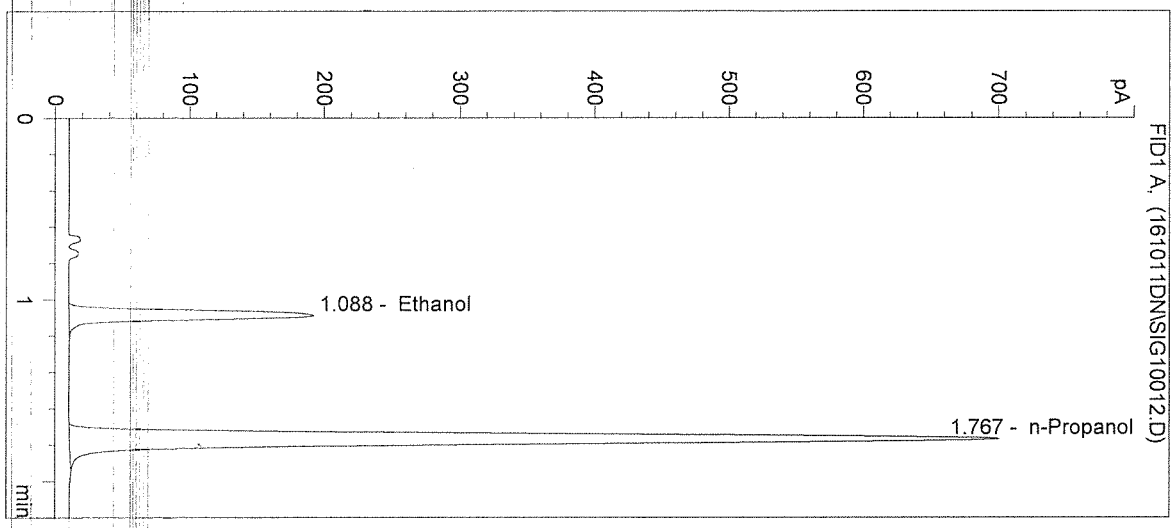
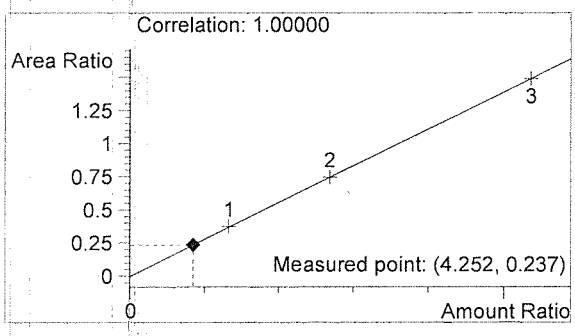
2203 Airport Way S Seattle, WA 98134

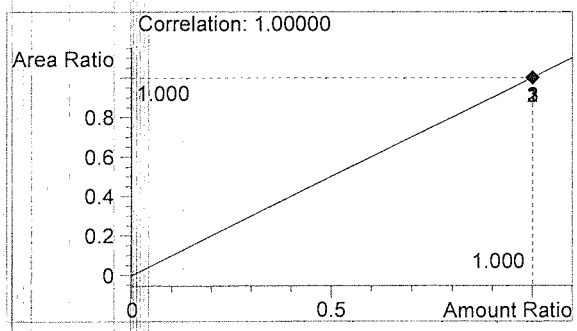
Inj. Date: 10/11/2016 11:12:35 AM
Sample Name: 16035 #3
Instrument: HSGC#1
Operator: David Nguyen
Column: DB-ALC1
Location: Vial 12
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:



#	Compound	Peak Area	RT (min)
1	Ethanol	621	1.088
2	n-Propanol	2620	1.767



Ethanol 0.051 g/100mL



n-Propanol 0.012 g/100mL

DN

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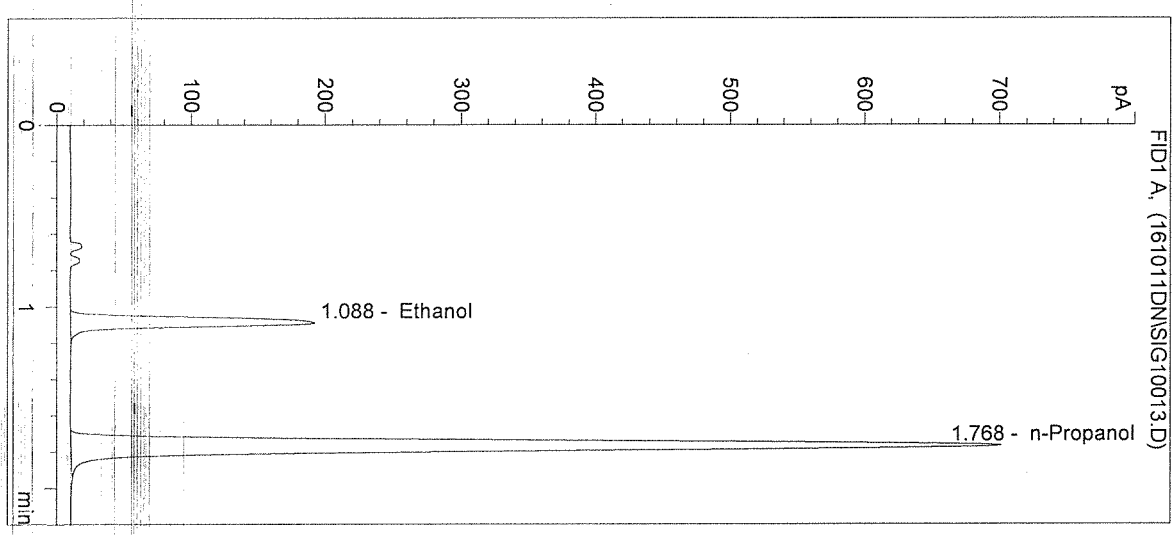
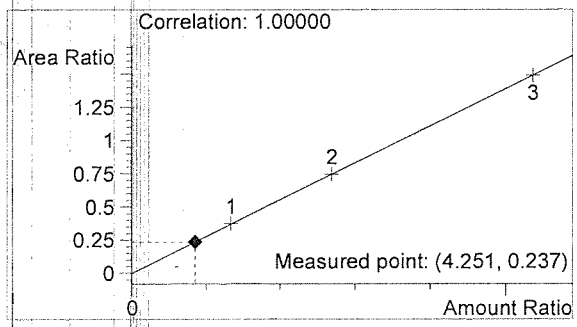
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 11:15:48 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

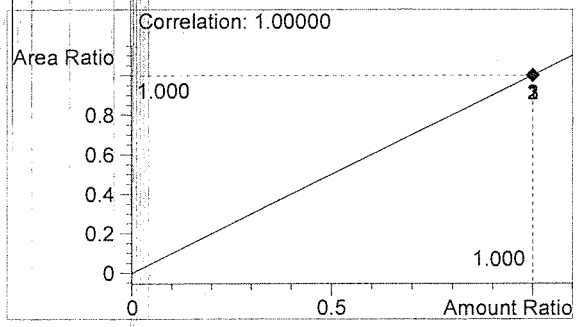
Sample Name: 16035 #4
Operator: David Nguyen
Location: Vial 13



#	Compound	Peak Area	RT (min)
1	Ethanol	625	1.088
2	n-Propanol	2637	1.768



Ethanol 0.051 g/100mL



n-Propanol 0.012 g/100mL

DN

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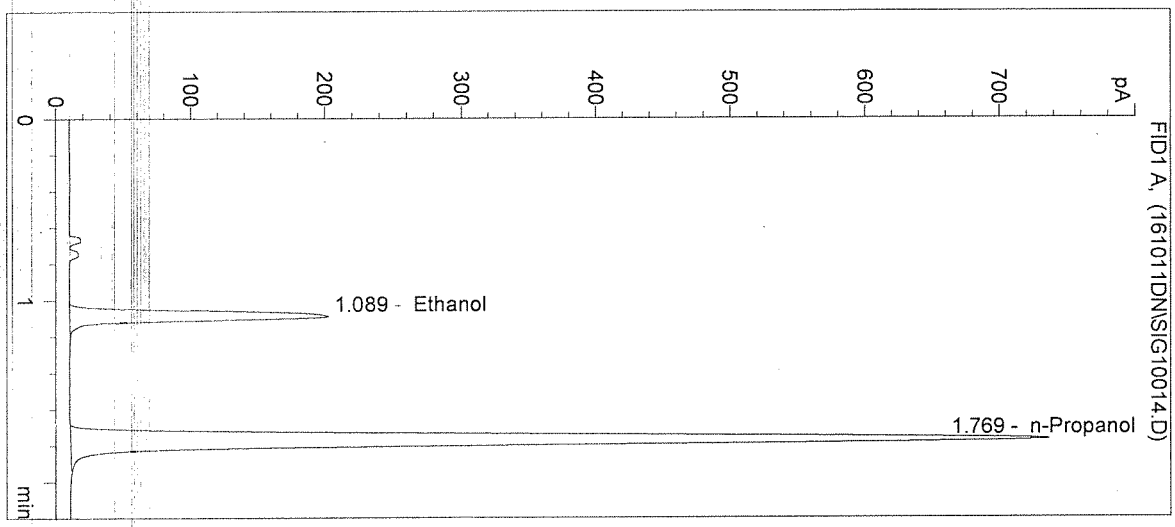
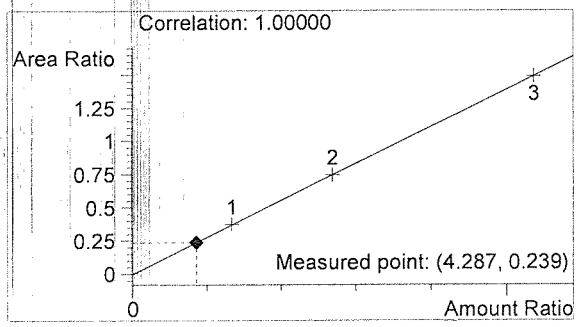
Inj. Date: 10/11/2016 11:19:02 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

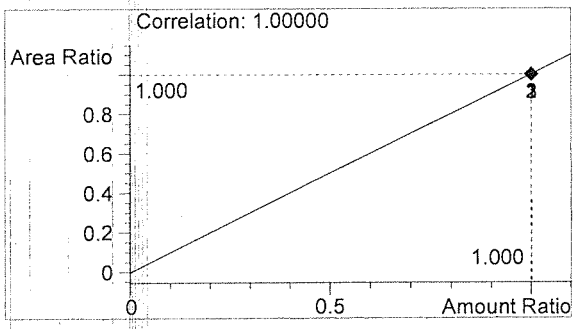
Sample Name: 16035 #5
Operator: David Nguyen
Location: Vial 14



#	Compound	Peak Area	RT (min)
1	Ethanol	662	1.089
2	n-Propanol	2770	1.769



Ethanol 0.051 g/100mL



n-Propanol 0.012 g/100mL

DN

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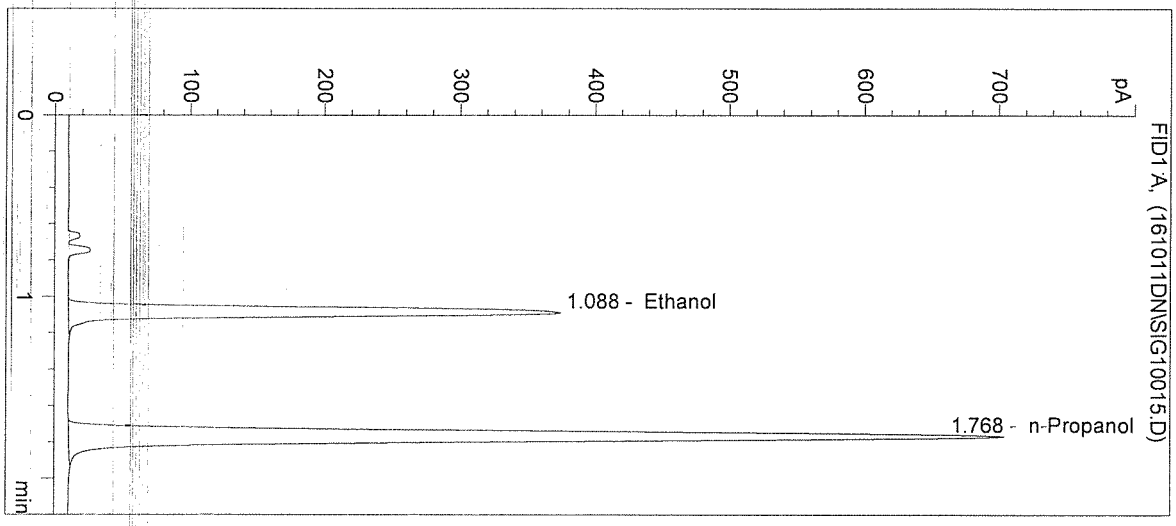
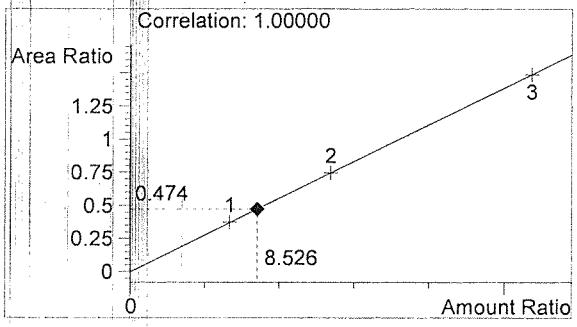
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 11:22:14 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: POS CTRL: 0.10 g/100mL
16035

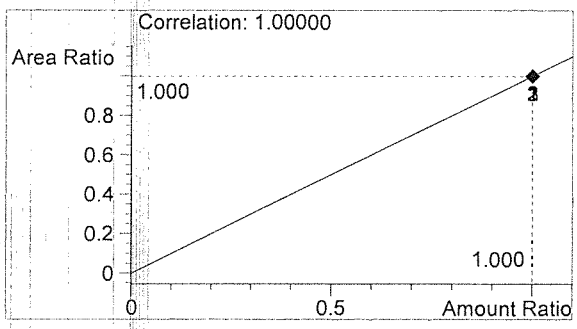
Sample Name: POS CTRL (0.10)
Operator: David Nguyen
Location: Vial 15



#	Compound	Peak Area	RT (min)
1	Ethanol	1246	1.088
2	n-Propanol	2629	1.768



Ethanol 0.102 g/100mL



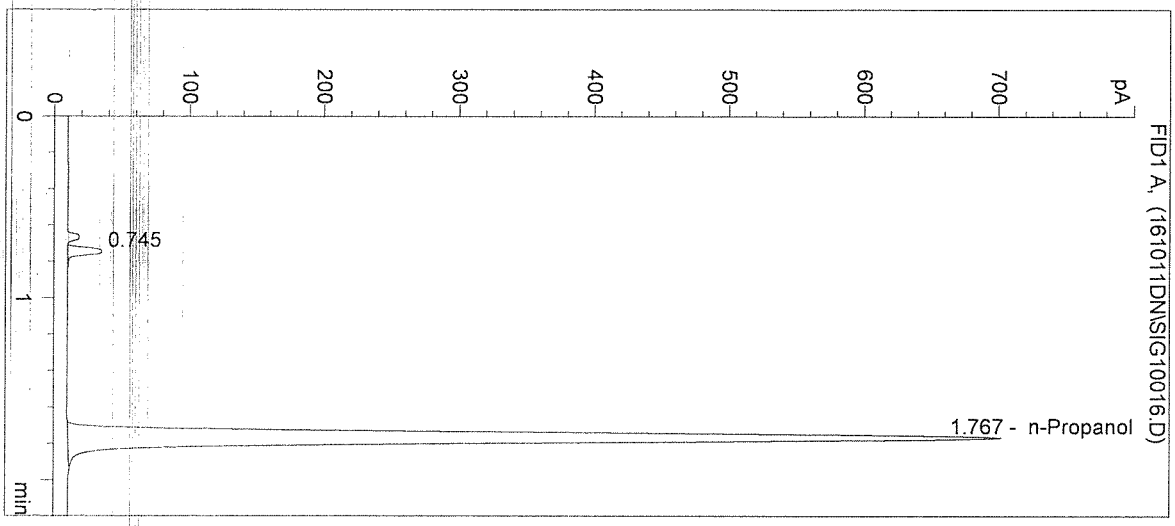
n-Propanol 0.012 g/100mL

DN

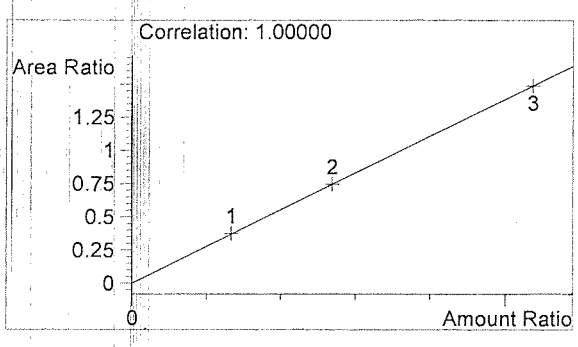
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 10/11/2016 11:25:27 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16035

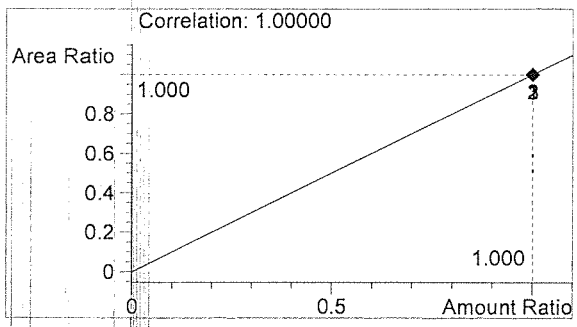
Sample Name: NEG CTRL
Operator: David Nguyen
Location: Vial 16



#	Compound	Peak Area	RT (min)
1		68	0.745
2	Ethanol	0	0.000
3	n-Propanol	2626	1.767



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

DN