

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 06/05/2016 SEQUENCE NAME 05Jul16

EQUIPMENT

Pipettor Hamilton MD91JC4962 Hamilton MD91JF5016
 Gas Chromatograph Agilent US14173023 Perkin Elmer 650N9042002

INSTRUMENT CALIBRATION

Vial 1 0.02 calibrator Lot FN08101401 Coefficient of determination (r^2)
 Vial 2 0.10 calibrator Lot FN06181501 0.99999
 Vial 3 0.20 calibrator Lot FN07201502
 Vial 4 0.40 calibrator Lot FN11191402

CALIBRATION VERIFICATION AND RESOLUTION TEST

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	blank	Not detected	Not detected	SPD lab 110215
6	volatiles mixture	6 Compounds	6 Compounds	SPD lab 030916ASL
7	aqueous control	0.400 g/dL	0.402g/dL	Lipomed 05012012-C
8	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
9	blood control	0.200 g/dL	0.203g/dL	ACQ 402101060/6
20	aqueous control	0.080 g/dL	0.081g/dL	Lipomed 14112011-A
31	aqueous control	0.150 g/dL	0.152g/dL	Lipomed 11012012-C
42	aqueous control	0.400 g/dL	0.405g/dL	Lipomed 05012012-C
43	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
44	blood control	0.200 g/dL	0.202 g/dL	ACQ 402101060/6
45	blank	Not detected	Not detected	SPD lab 110215

SUBJECT SAMPLES

Subjects in the sequence 15 Subjects requiring reanalysis 2

ADDITIONAL NOTES: Vials 18 & 19 and 21 & 22 duplicates fell outside of the expected 2% agreement range.

Run valid
 Run invalid

Amudangan
 Analyst

Run valid
 Run invalid

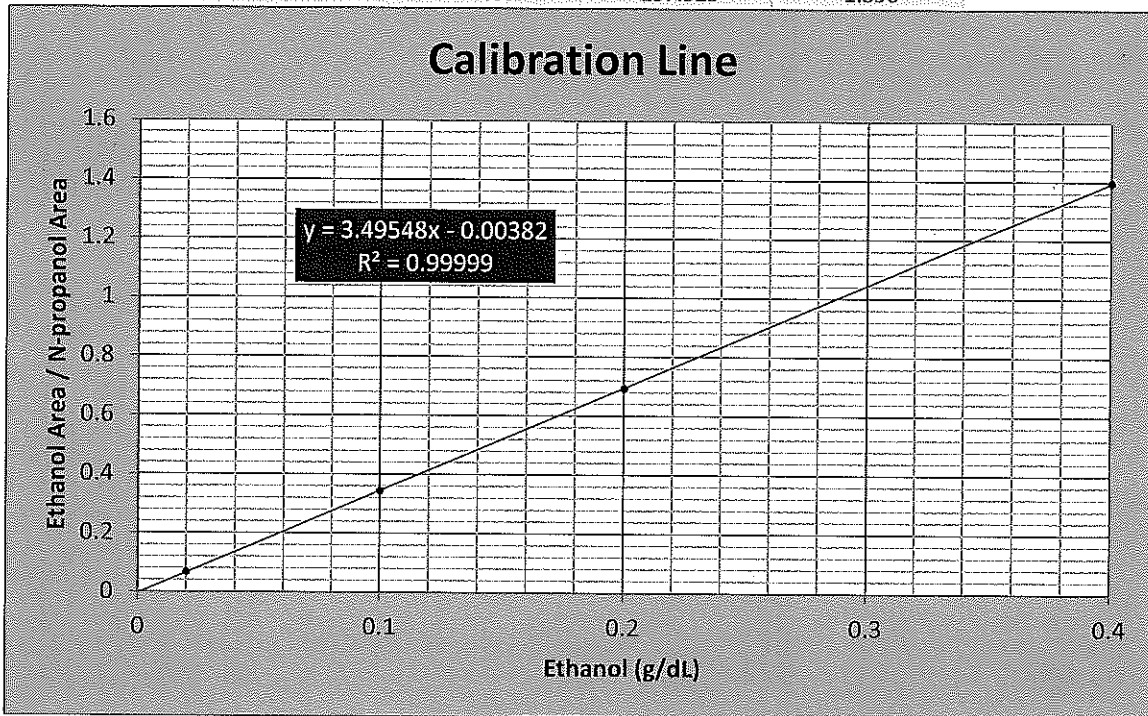
MM 7/1/16
 Technical Reviewer

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
SEQUENCE QUALITY ASSURANCE SUMMARY

SEQUENCE NAME: 05Jul16

Control	Vial	Expected Value (g/dL)	Measured Value (g/dL)	Percent Difference	Absolute Difference (g/dl)
1	5	negative	negative	-	-
2	7	0.400	0.402	0.50	0.002
3	8	0.040	0.040	0.00	0.000
4	9	0.200	0.203	1.50	0.003
5	20	0.080	0.081	1.25	0.001
6	31	0.150	0.152	1.33	0.002
7	42	0.400	0.405	1.25	0.005
8	43	0.040	0.040	0.00	0.000
9	44	0.200	0.202	1.00	0.002
10	45	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	10.679	156.346	0.068
0.100	55.755	162.011	0.344
0.200	108.129	155.926	0.693
0.400	219.837	157.525	1.396



Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.02 Cerilliant FN08101401	Item number:
Injection date: 7/5/2016 4:10:28 PM	Vial: 1
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan M
Data file: C:\Chem32\1\Data\05Jul16\1.D	

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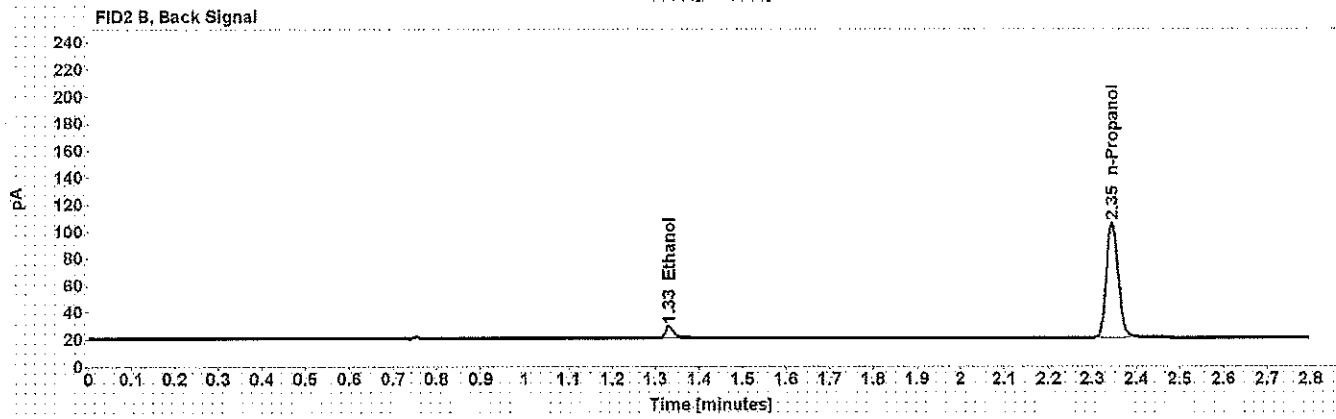
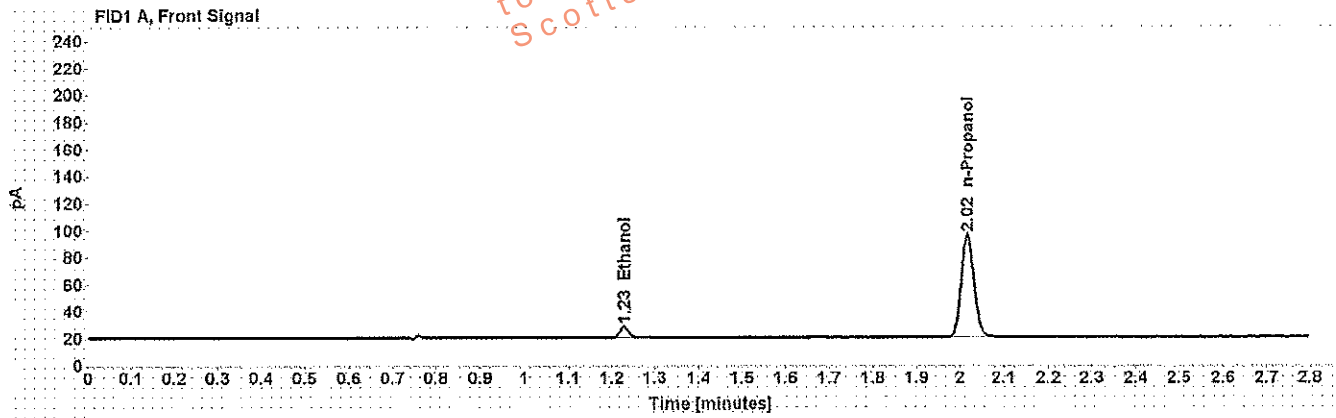


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
>Ethanol	1.228	10.679
>n-Propanol	2.017	156.346

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.331	10.735
>n-Propanol	2.345	159.148

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.10 Cerilliant FN06181501	Item number:
Injection date: 7/5/2016 4:14:28 PM	Vial: 2
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan M
Data file: C:\Chem32\1\Data\05Jul16\2.D	

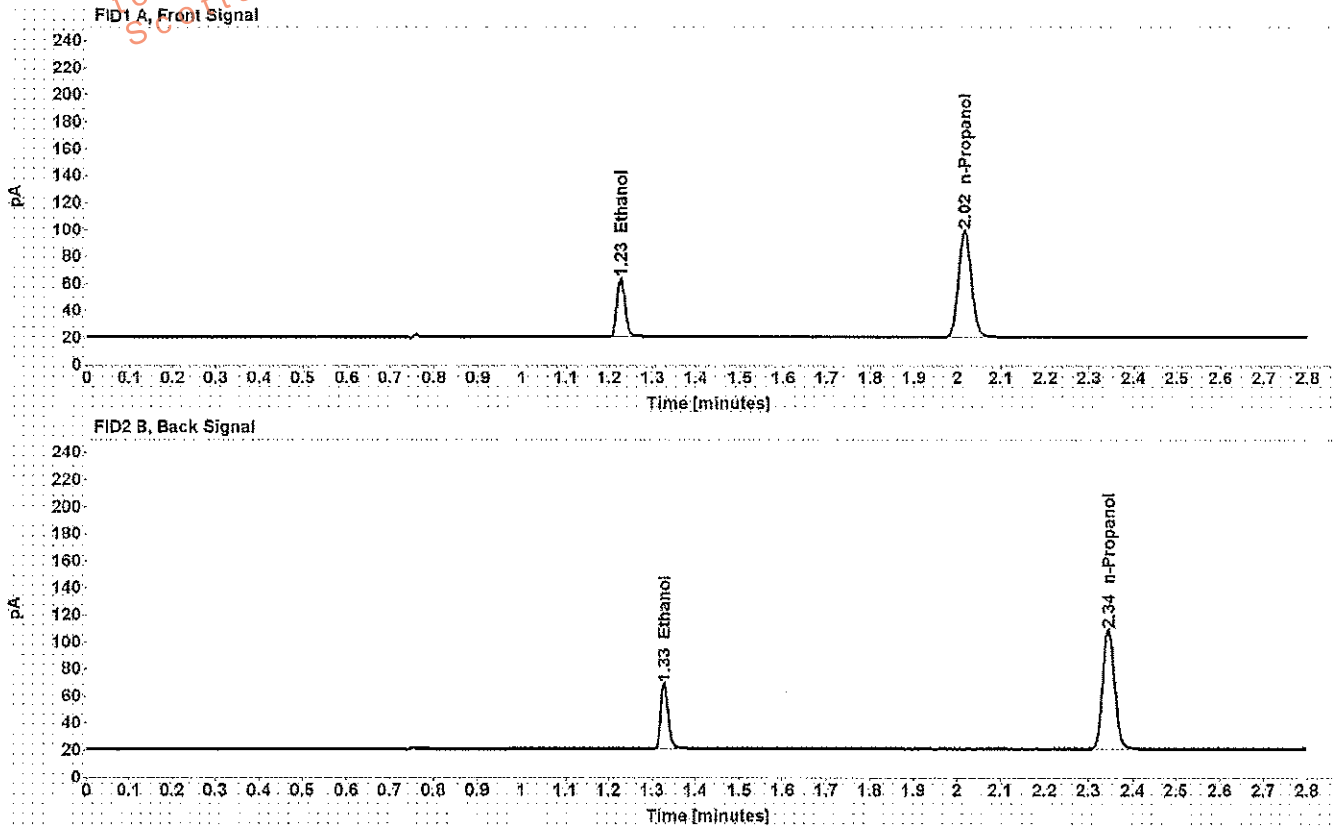


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
>Ethanol	1.226	55.755
>n-Propanol	2.016	162.011

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	56.849
>n-Propanol	2.345	165.022

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 Cerilliant FN07201502	Item number:
Injection date: 7/5/2016 4:18:28 PM	Vial: 3
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023-CN14160045	Analyst: Langan M
Data file: C:\Chem3211\Data\05Jul16\3.D	

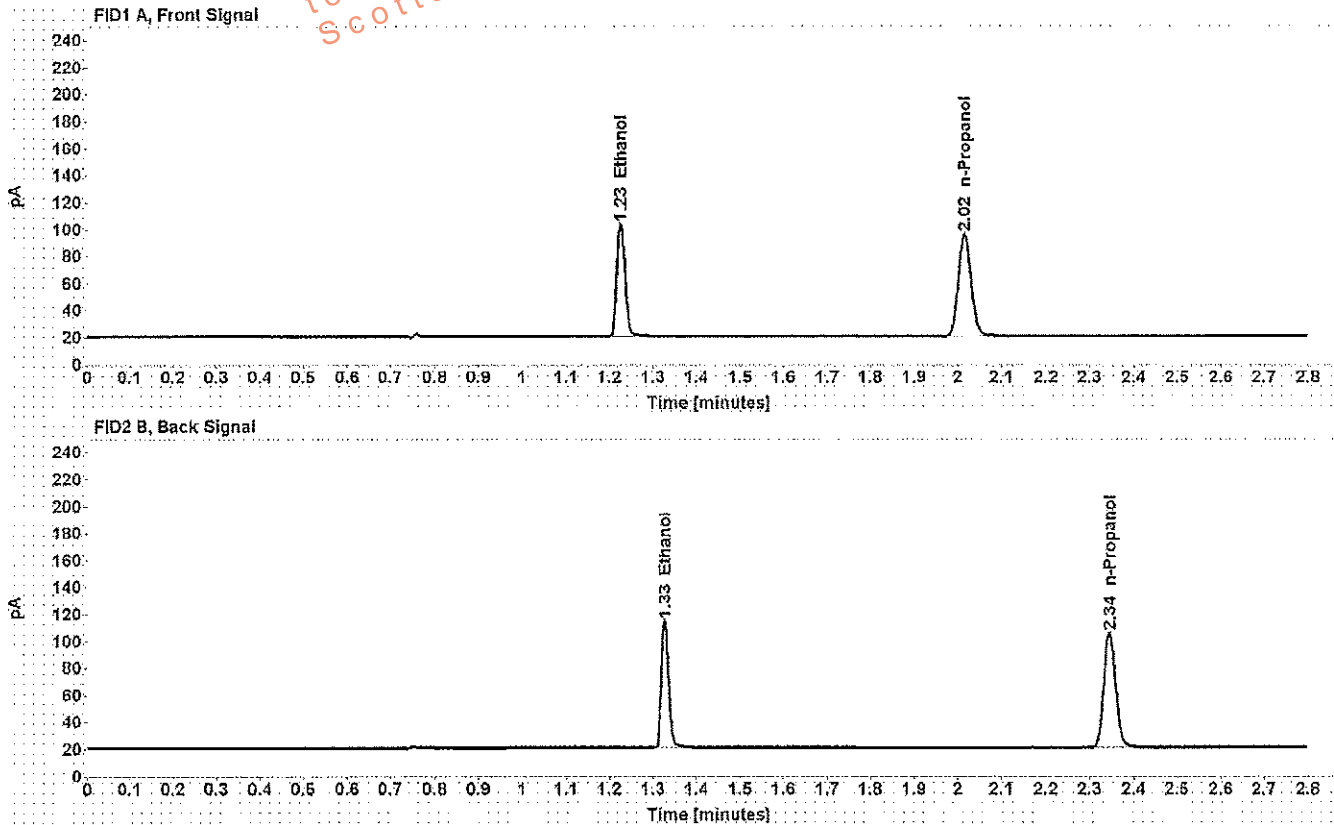


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
>Ethanol	1.226	108.129
>n-Propanol	2.016	155.926

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.327	110.131
>n-Propanol	2.345	158.924

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Cerilliant FN11191402	Item number:
Injection date: 7/5/2016 4:22:28 PM	Vial: 4
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan <i>M</i>
Data file: C:\Chem32\1\Data\05Jul16\4.D	

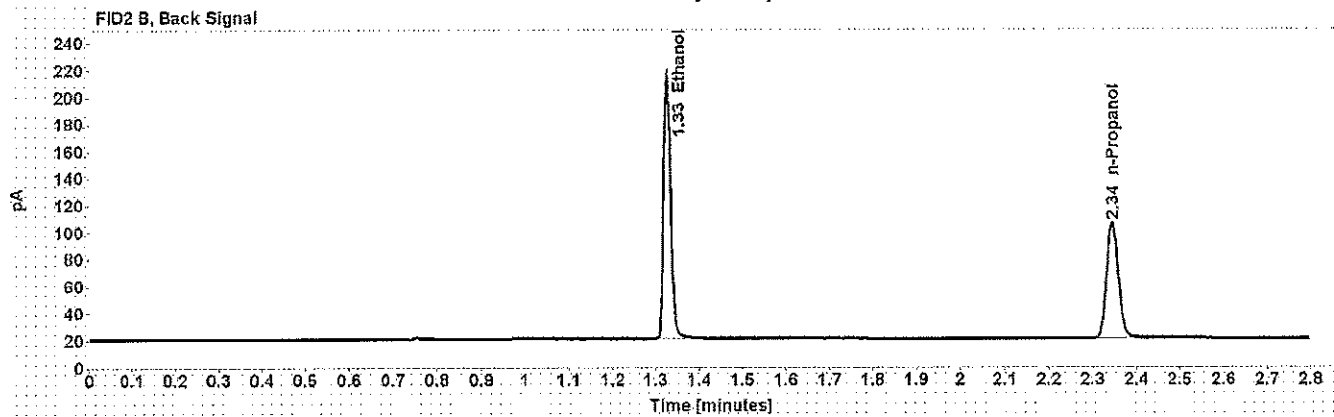
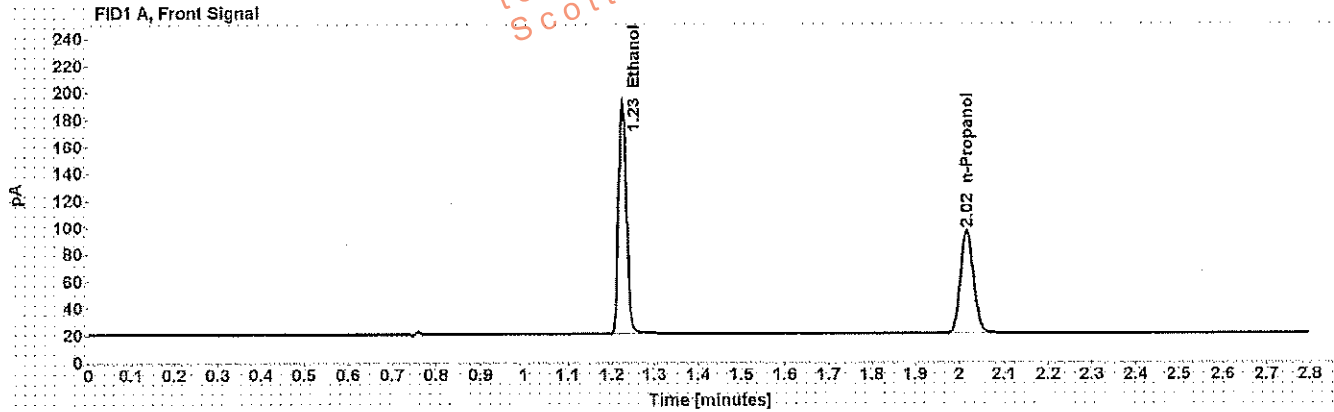


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
>Ethanol	1.225	219.837
>n-Propanol	2.016	157.525

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.326	225.167
>n-Propanol	2.344	160.427

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	blank 110215	Item number:	
Injection date:	7/5/2016 4:26:28 PM	Vial:	5
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan <i>ML</i>
Data file:	C:\Chem32\11\Data\05Jul16\5.D		

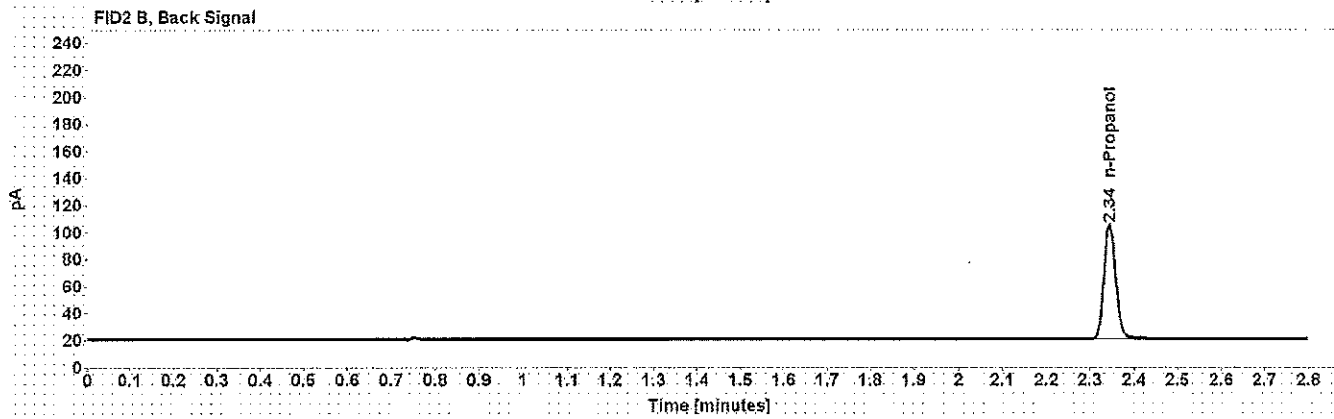
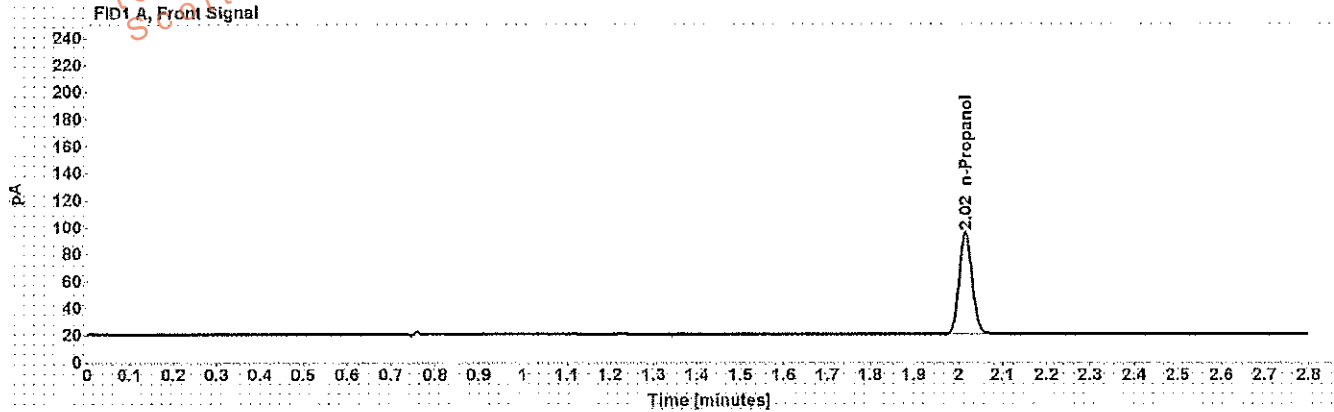


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>n-Propanol	-----	2.016	155.078

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>n-Propanol	2.344	158.059

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: volatiles mix 030916 ASL	Item number:
Injection date: 7/5/2016 4:30:29 PM	Vial: 6
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023-CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem3211\Data\05Jul16\6.D	

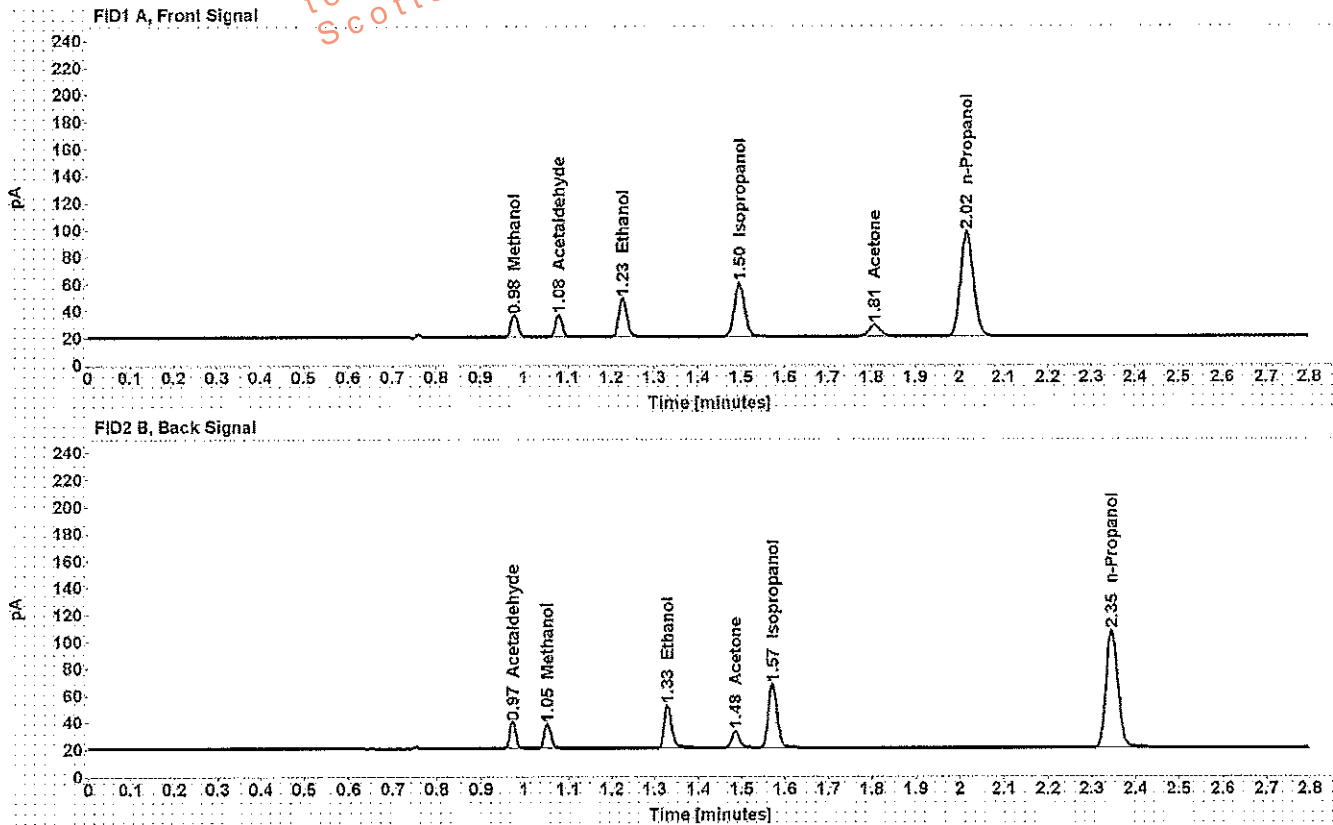


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Methanol	-----	0.979	18.305
>Acetaldehyde	-----	1.080	17.965
>Ethanol	0.0672	1.227	36.709
>Isopropanol	-----	1.496	65.612
>Acetone	-----	1.807	15.472
>n-Propanol	-----	2.017	158.952

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.973	18.584
>Methanol	1.052	18.325
>Ethanol	1.329	37.164
>Acetone	1.485	15.632
>Isopropanol	1.571	66.718
>n-Propanol	2.345	161.911

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C
Injection date: 7/5/2016 4:34:44 PM
Method: ethanol quant.M
Instrument: US14173023 CN14160045
Data file: C:\Chem32\1\Data\05Jul16\7.D

Item number:
Vial: 7
Sequence: 05Jul16.S
Analyst: Langan

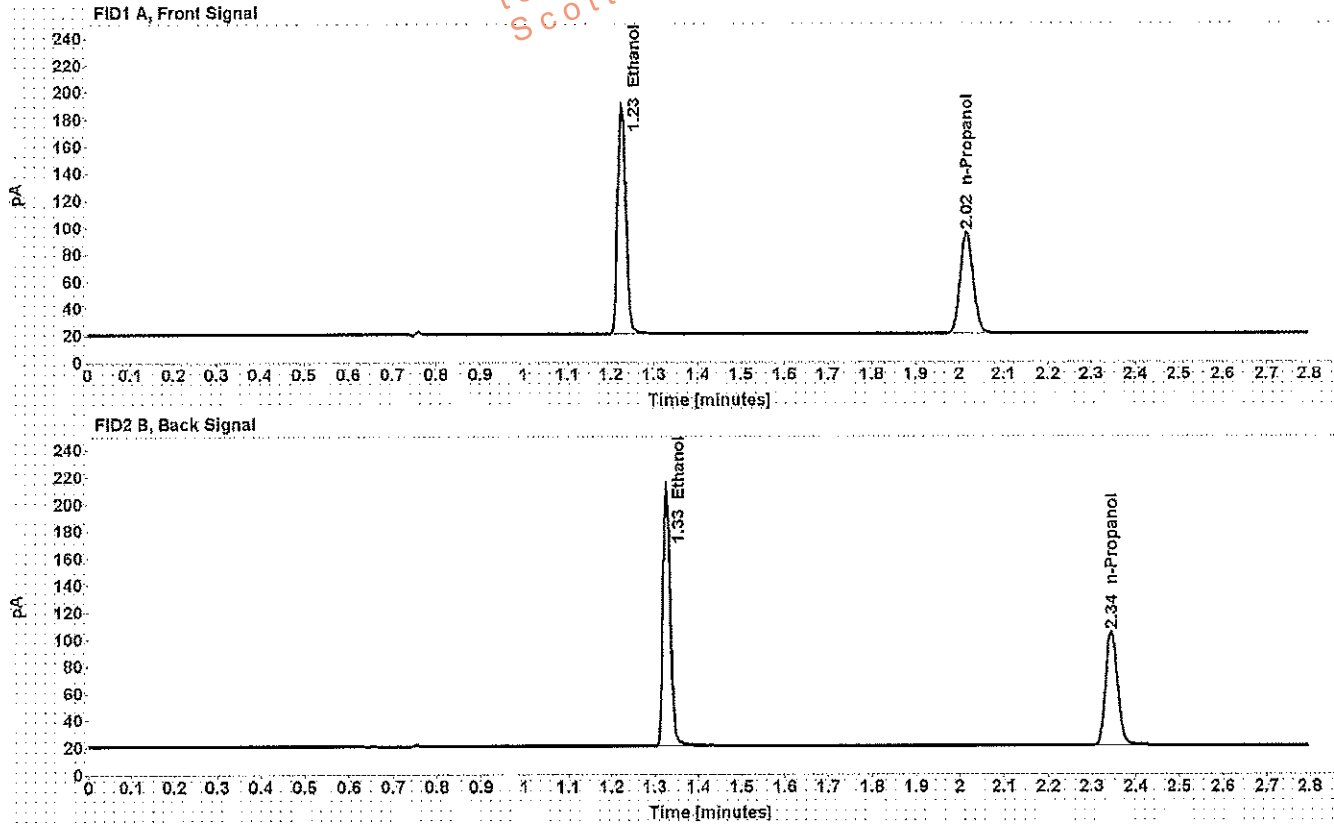


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4022	1.225	216.841
>n-Propanol	-----	2.016	154.656

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.327	221.787
>n-Propanol	2.345	157.571

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B	Item number:
Injection date: 7/5/2016 4:38:43 PM	Vial: 8
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan M
Data file: C:\Chem3211\Data\05Jul16\8.D	

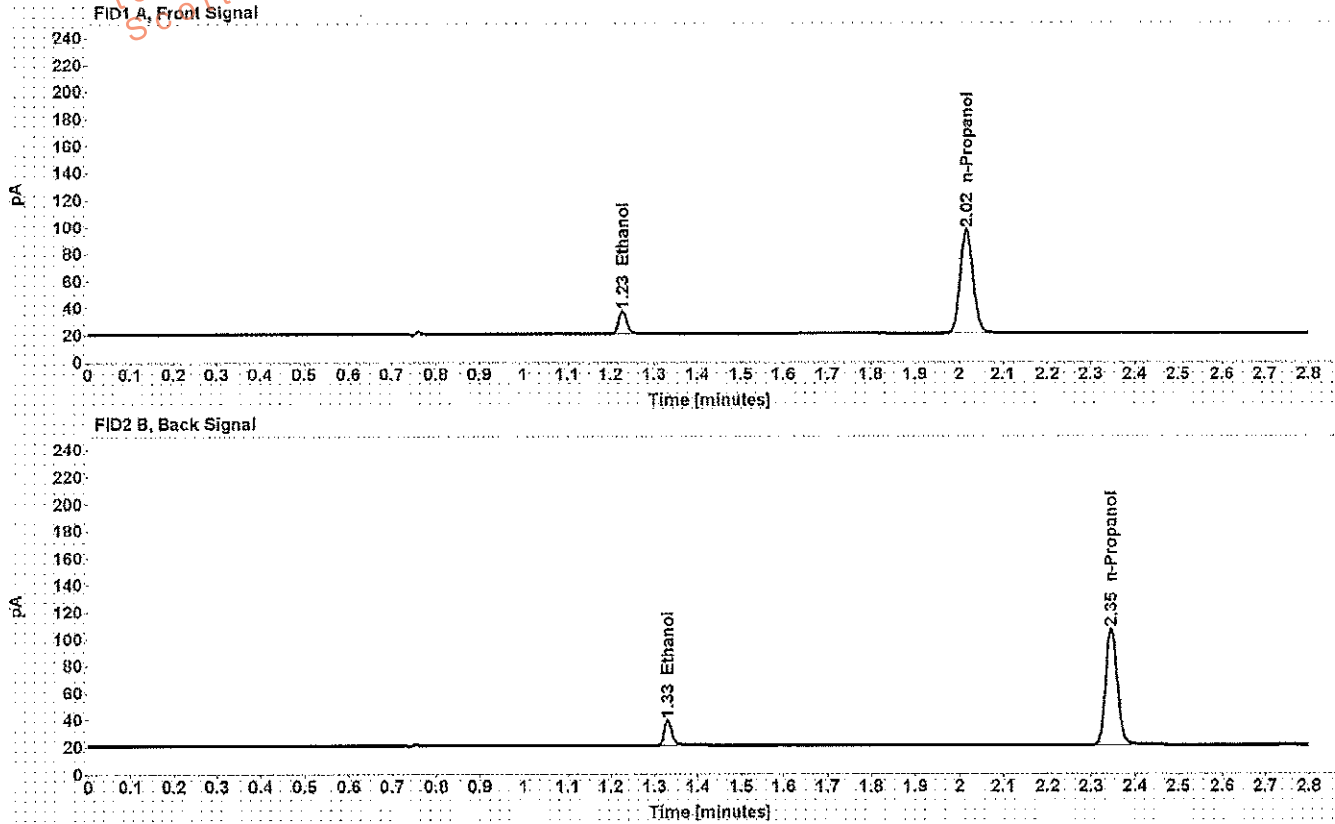


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0403	1.228	21.585
>n-Propanol	-----	2.017	157.615

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.330	21.751
>n-Propanol	2.346	160.667

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 7/5/2016 4:42:44 PM	Vial: 9
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023-CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\11\Data\05Jul16\9.D	

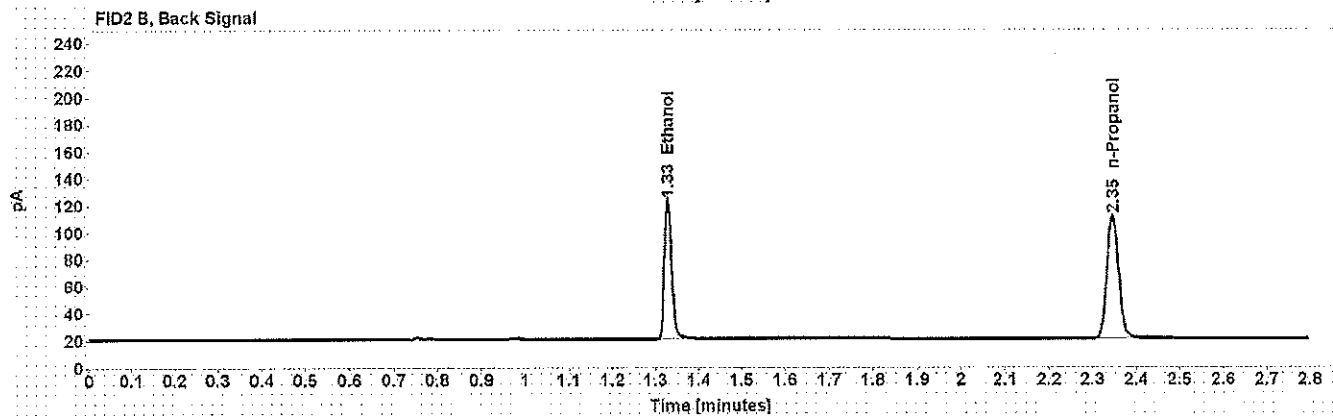
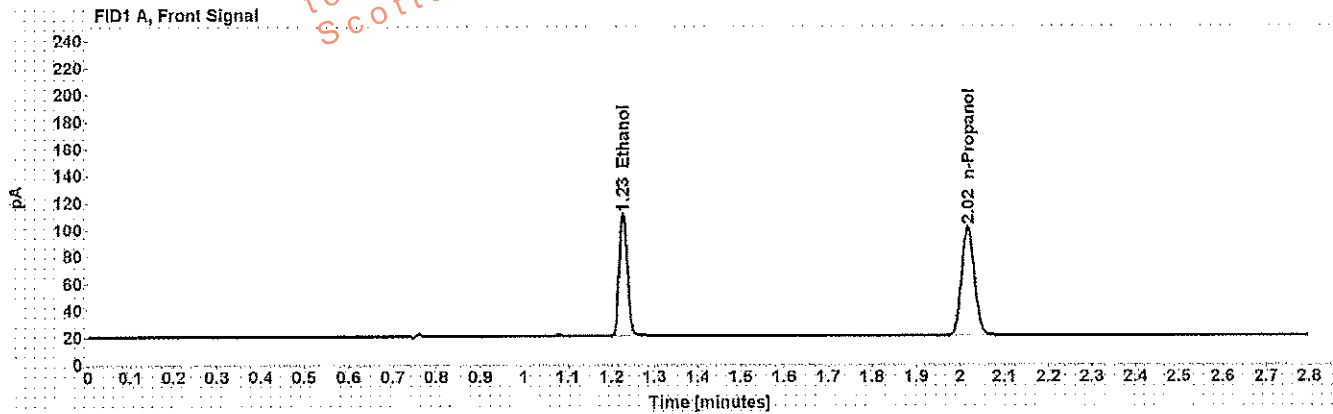


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2033	1.226	117.633
>n-Propanol	-----	2.017	166.409

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	119.587
>n-Propanol	2.346	169.812

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.080 Lipomed 14112011-A	Item number:
Injection date: 7/5/2016 5:27:13 PM	Vial: 20
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan <i>M</i>
Data file: C:\Chem32\1\Data\05Jul16\20.D	

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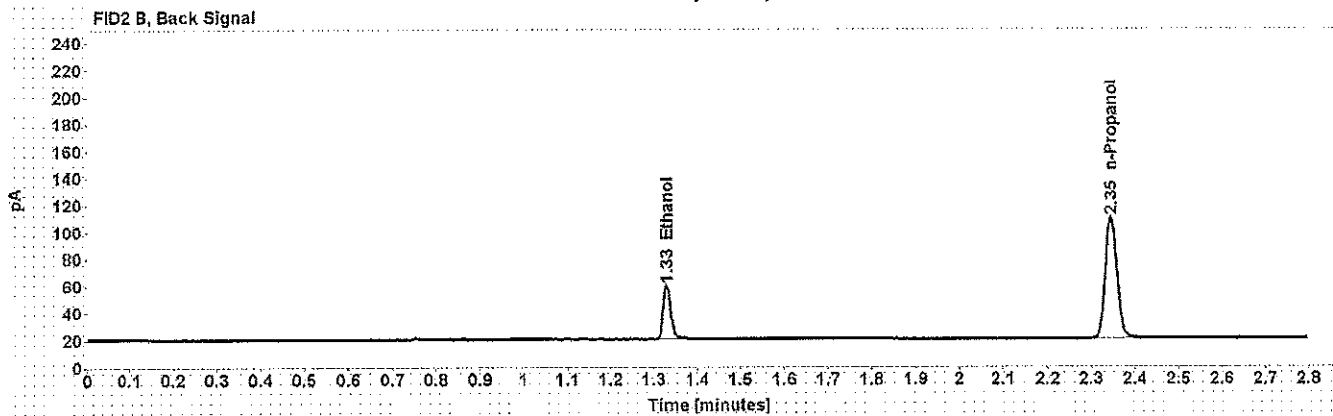
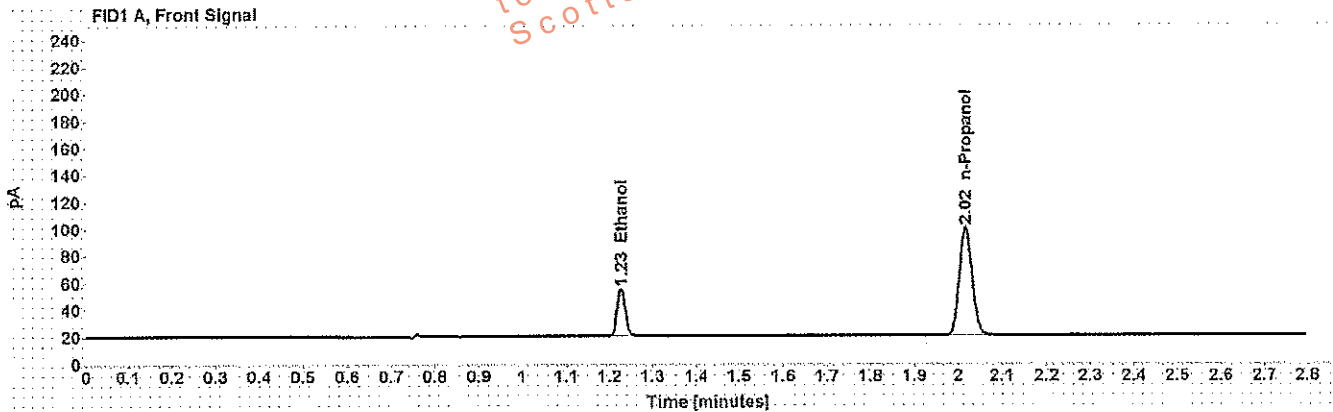


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0810	1.227	46.008
>n-Propanol	-----	2.017	164.679

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.329	46.571
>n-Propanol	2.345	167.561

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.150 Lipomed 11012012-C	Item number:
Injection date: 7/5/2016 6:11:43 PM	Vial: 31
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan M
Data file: C:\Chem32\11\Data\05Jul16\31.D	

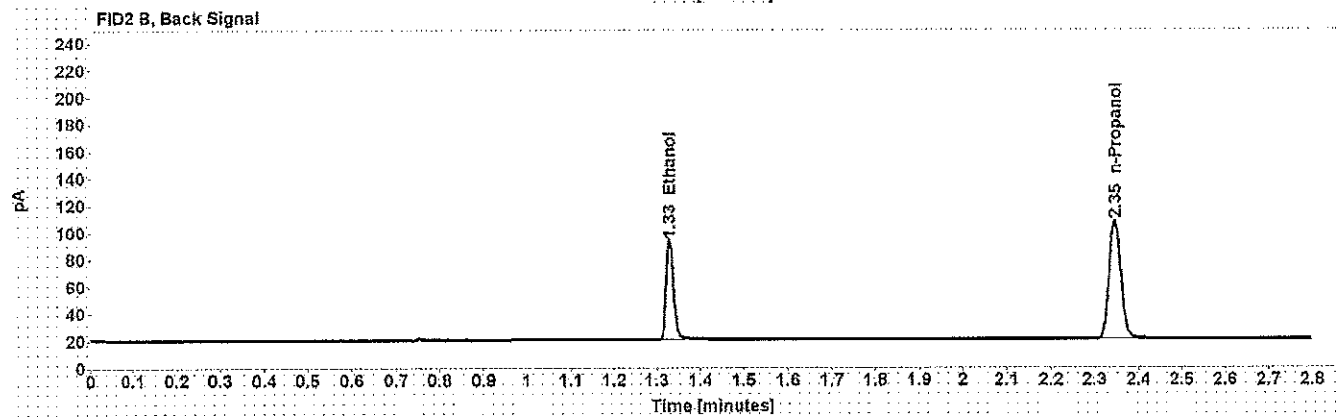
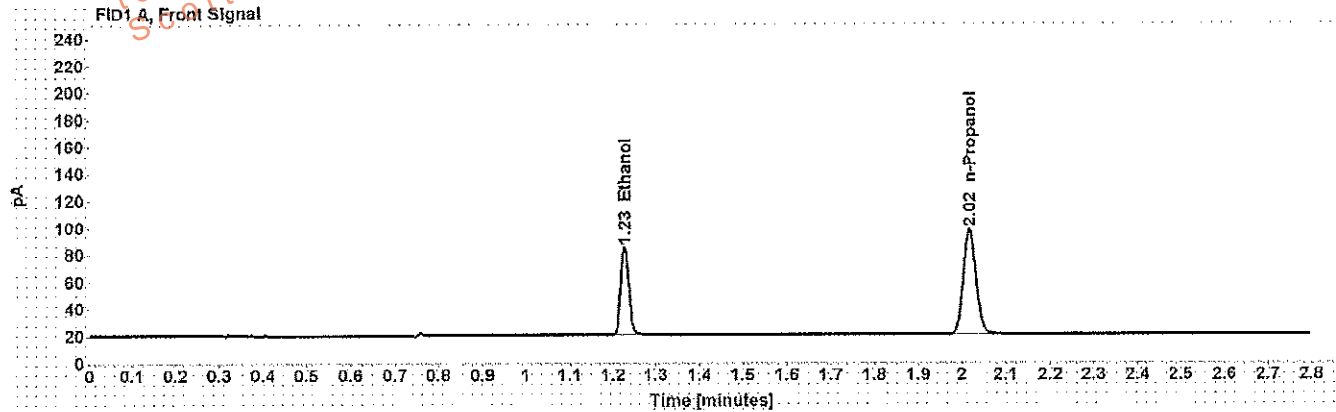


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1520	1.227	84.313
>n-Propanol	-----	2.017	159.785

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.329	85.720
>n-Propanol	2.346	162.582

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number:
Injection date: 7/5/2016 6:55:59 PM	Vial: 42
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
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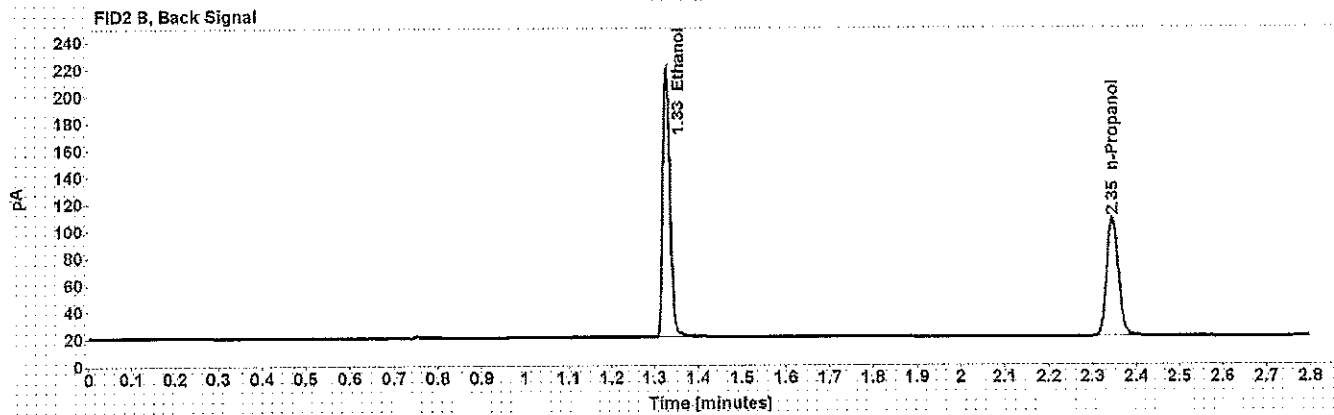
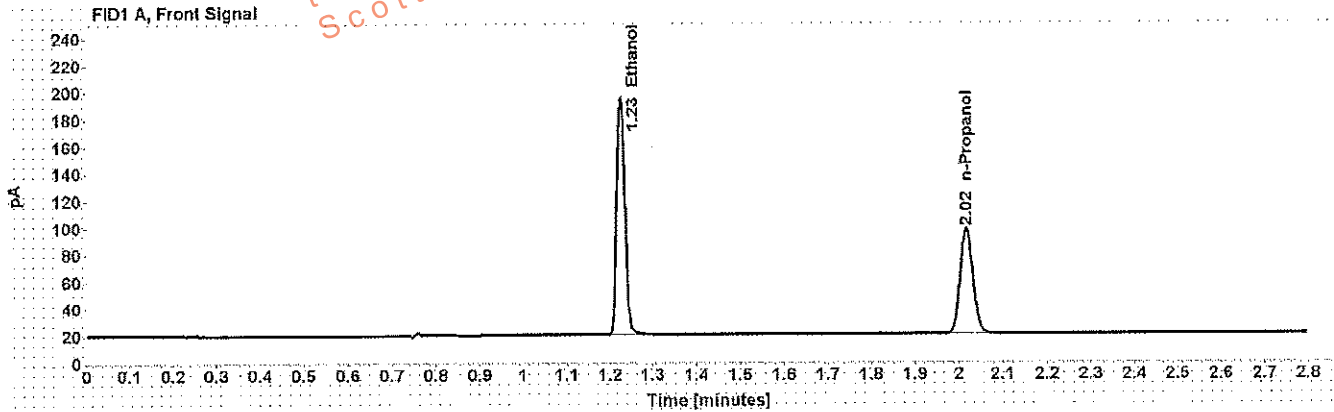


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4054	1.226	226.711
>n-Propanol	-----	2.017	160.422

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	231.810
>n-Propanol	2.346	163.008

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B	Item number:
Injection date: 7/5/2016 7:00:13 PM	Vial: 43
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
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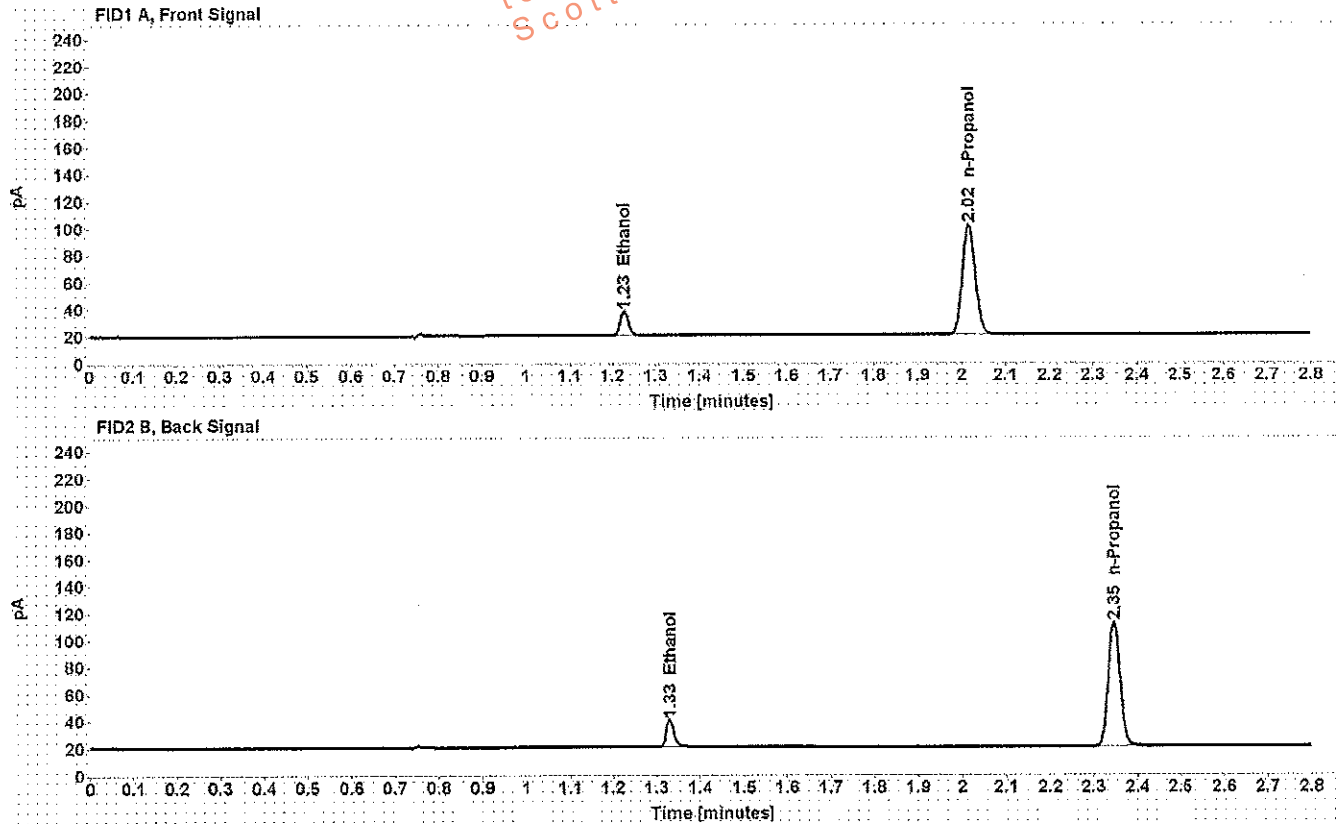


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0409	1.227	23.365
>n-Propanol	-----	2.017	168.059

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.330	23.597
>n-Propanol	2.345	171.185

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6 Injection date: 7/5/2016 7:04:13 PM Method: ethanol quant.M Instrument: US14173023 CN14160045 Data file: C:\Chem32\1\Data\05Jul16\44.D	Item number: Vial: 44 Sequence: 05Jul16.S Analyst: Langan <i>M</i>
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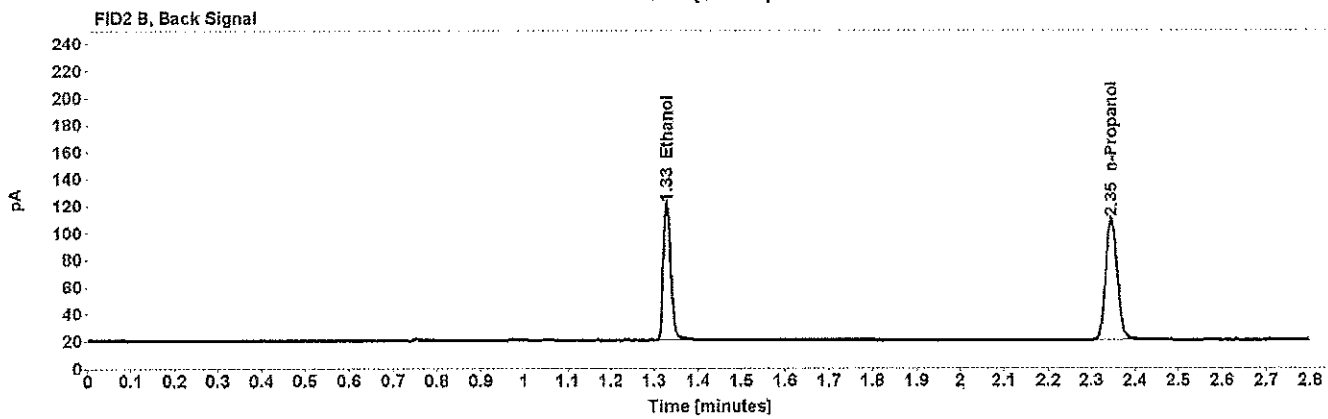
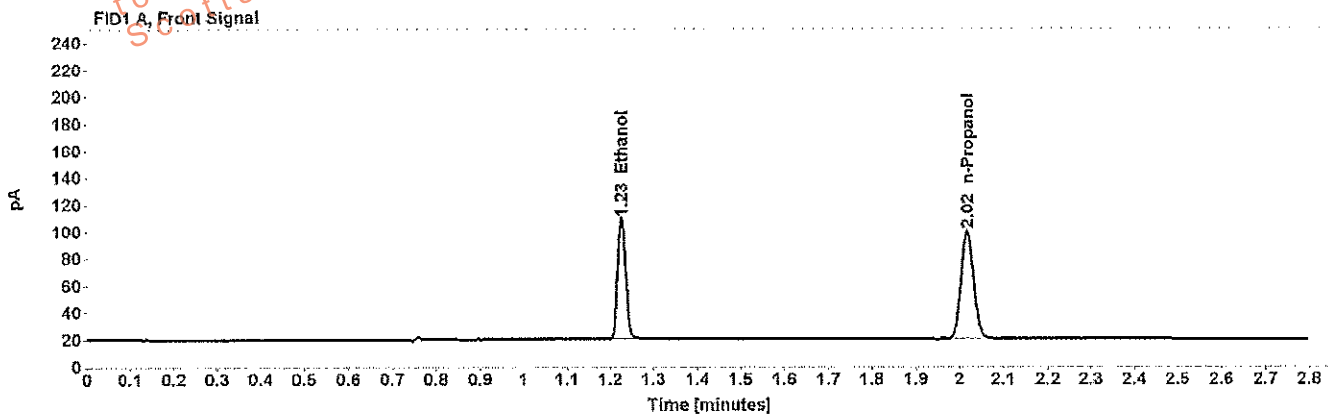


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2022	1.226	115.507
>n-Propanol	-----	2.017	164.283

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	117.637
>n-Propanol	2.346	167.424

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number: 45
Injection date: 7/5/2016 7:08:14 PM	Vial: 45
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023-CN14160045	Analyst: Langan <i>ML</i>
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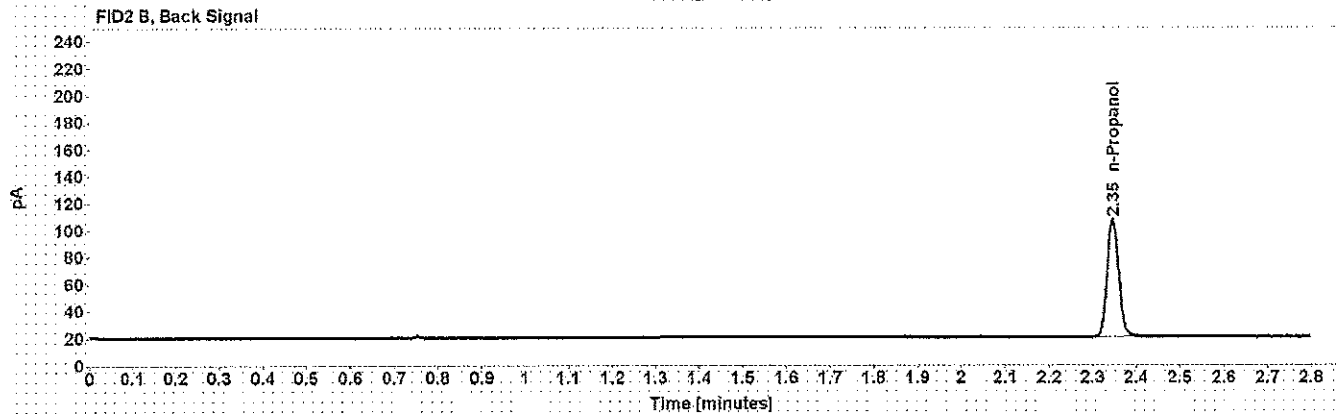
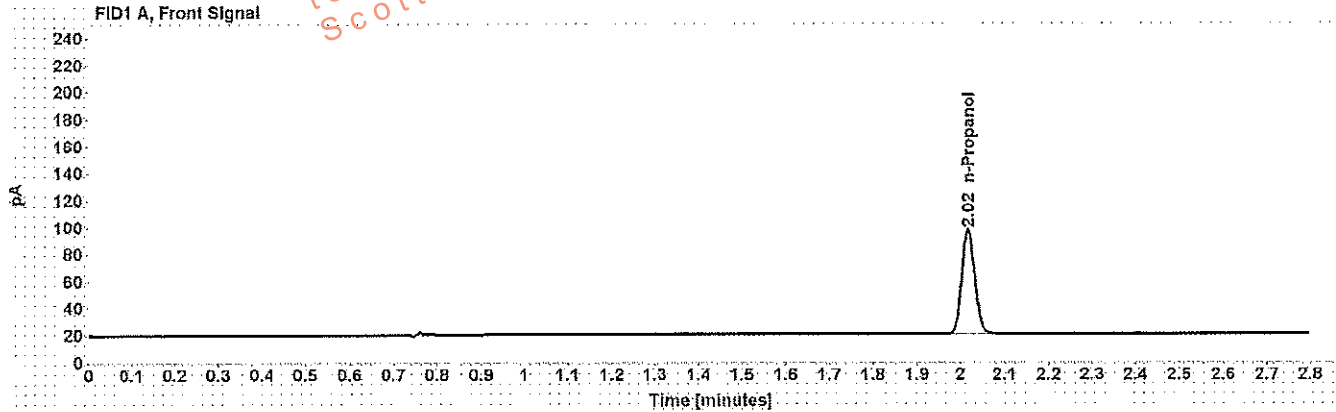


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>n-Propanol	-----	2.017	159.368

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>n-Propanol	2.346	162.207

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
SEQUENCE SUMMARY OF CASES

SEQUENCE NAME: 05Jul16

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.2159	0.2145	0.21520	0.33	0.00070
12 13	0.2769	0.2802	0.27855	0.59	0.00165
14 15	0.1768	0.1760	0.17640	0.23	0.00040
16 17	0.2546	0.2517	0.25315	0.57	0.00145
18 19	0.1061	0.1108	0.10845	2.17	0.00235
21 22	0.1801	0.1728	0.17645	2.07	0.00365
23 24	0.0692	0.0695	0.06935	0.22	0.00015
25 26	0.0591	0.0595	0.05930	0.34	0.00020
27 28	0.1011	0.1004	0.10075	0.35	0.00035
29 30	0.1898	0.1895	0.18965	0.08	0.00015
32 33	0.3804	0.3763	0.37835	0.54	0.00205
34 35	0.1861	0.1839	0.18500	0.59	0.00110
36 37	0.3068	0.3087	0.30775	0.31	0.00095
38 39	0.2399	0.2434	0.24165	0.72	0.00175
40 41	0.1088	0.1094	0.10910	0.27	0.00030

*Calculated differences are differences from the mean of the two results.

AA

SEQUENCE TABLE:

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 Location : 1
 Sample Information : 0.02
 Sample Name : 0.02 Cerilliant FN08101401
 Method Name : ethanol quant
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=====
 Line : 2
 Location : 2
 Sample Information : 0.1
 Sample Name : 0.10 Cerilliant FN06181501
 Method Name : ethanol quant
 =====

=====
 Line : 3
 Location : 3
 Sample Information : 0.2
 Sample Name : 0.20 Cerilliant FN07201502
 Method Name : ethanol quant
 =====

=====
 Line : 4
 Location : 4
 Sample Information : 0.4
 Sample Name : 0.40 Cerilliant FN11191402
 Method Name : ethanol quant
 =====

=====
 Line : 5
 Location : 5
 Sample Information : Negative
 Sample Name : blank 110215
 Method Name : ethanol quant
 =====

=====
 Line : 6
 Location : 6
 Sample Information :
 Sample Name : volatiles mix 030916 ASL
 Method Name : ethanol quant
 =====

=====
 Line : 7
 =====

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Location : 7
Sample Information : 0.4
Sample Name : 0.40 Lipomed 05012012-C
Method Name : ethanol quant


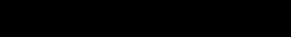
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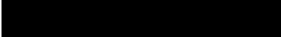
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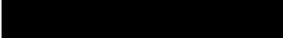
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Sample Name : 0.04 Lipomed 30112011-B
Method Name : ethanol quant

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Line : 9
Location : 9
Sample Information : .200
Sample Name : 0.20 ACQ 402101060/6
Method Name : ethanol quant

=====
Line : 10
Location : 10
Sample Information : 
Sample Name : 
Method Name : ethanol quant

=====
Line : 11
Location : 11
Sample Information : 
Sample Name : 
Method Name : ethanol quant

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Line : 12
Location : 12
Sample Information : 
Sample Name : 
Method Name : ethanol quant

=====
Line : 13
Location : 13
Sample Information : 
Sample Name : 
Method Name : ethanol quant

Line : 14
Location : 14
Sample Information :
Sample Name :
Method Name : ethanol quant

Line : 15
Location : 15
Sample Information :
Sample Name :
Method Name : ethanol quant

Line : 16
Location : 16
Sample Information :
Sample Name :
Method Name : ethanol quant

Line : 17
Location : 17
Sample Information :
Sample Name :
Method Name : ethanol quant

Line : 18
Location : 18
Sample Information :
Sample Name :
Method Name : ethanol quant

Line : 19
Location : 19
Sample Information :
Sample Name :
Method Name : ethanol quant

Line : 20
Location : 20
Sample Information : 0.080
Sample Name : 0.080 Lipomed 14112011-A
Method Name : ethanol quant

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AY

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=====
Line : 21
Location : 21
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 22
Location : 22
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 23
Location : 23
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 24
Location : 24
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 25
Location : 25
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 26
Location : 26
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 27
Location : 27
Sample Information :
Sample Name :
=====

Method Name : ethanol quant

=====
Line : 28
Location : 28
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 29
Location : 29
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 30
Location : 30
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 31
Location : 31
Sample Information : 0.150
Sample Name : 0.150 Lipomed 11012012-C
Method Name : ethanol quant
=====

=====
Line : 32
Location : 32
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 33
Location : 33
Sample Information :
Sample Name :
Method Name : ethanol quant
=====

=====
Line : 34
Location : 34
=====

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Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

=====
Line : 35
Location : 35
Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

=====
Line : 36
Location : 36
Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

=====
Line : 37
Location : 37
Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

=====
Line : 38
Location : 38
Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

=====
Line : 39
Location : 39
Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

=====
Line : 40
Location : 40
Sample Information : [REDACTED]
Sample Name : [REDACTED]
Method Name : ethanol quant

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Line : 41
Location : 41
Sample Information :
Sample Name :
Method Name : ethanol quant

AK

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=====
Line : 42
Location : 42
Sample Information : 0.4
Sample Name : 0.40 Lipomed 05012012-C
Method Name : ethanol quant

=====
Line : 43
Location : 43
Sample Information : 0.04
Sample Name : 0.04 Lipomed 30112011-B
Method Name : ethanol quant

=====
Line : 44
Location : 44
Sample Information : .200
Sample Name : 0.20 ACQ 402101060/6
Method Name : ethanol quant

=====
Line : 45
Location : 45
Sample Information : Negative
Sample Name : blank 110215
Method Name : ethanol quant
=====

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	960692
Injection date:	7/5/2016 4:46:43 PM	Vial:	10
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\10.D		

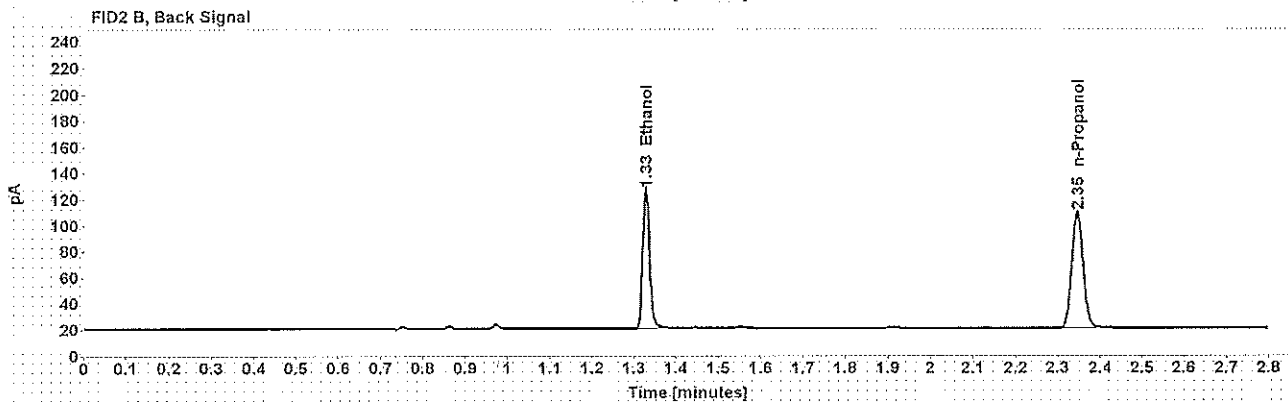
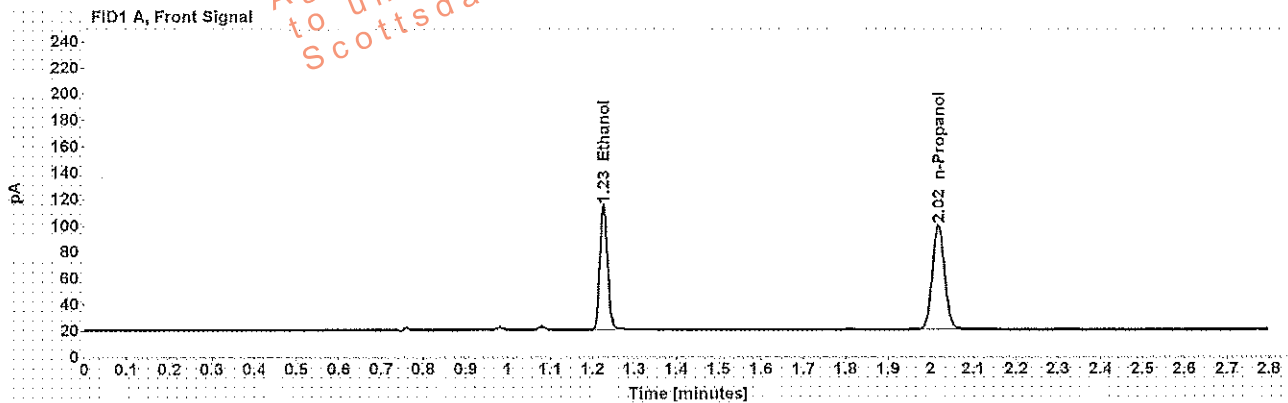


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2159	1.226	121.859
>n-Propanol	-----	2.017	162.294

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	124.545
>n-Propanol	2.346	165.801

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	Item number: 960692
Injection date: 7/5/2016 4:50:43 PM	Vial: 11
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\11.D	

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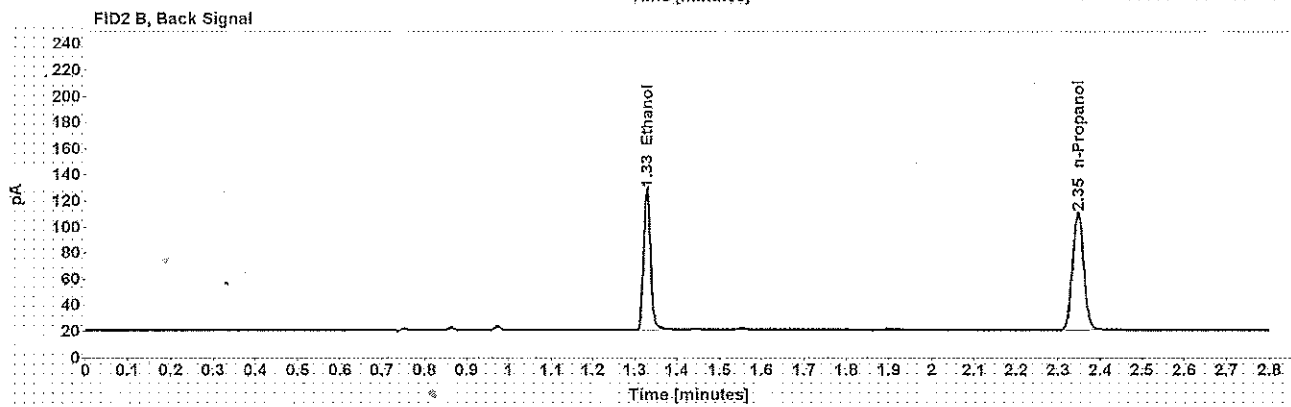
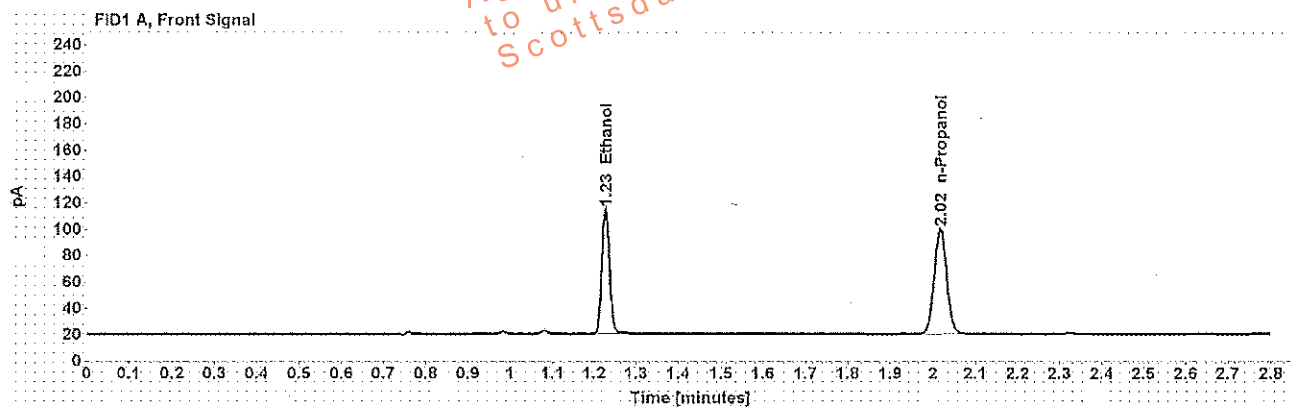


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2145	1.226	123.266
>n-Propanol	-----	2.017	165.258

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	127.046
>n-Propanol	2.345	167.574

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1051552
Injection date: 7/5/2016 4:54:44 PM	Vial: 12
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 ON14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\12.D	

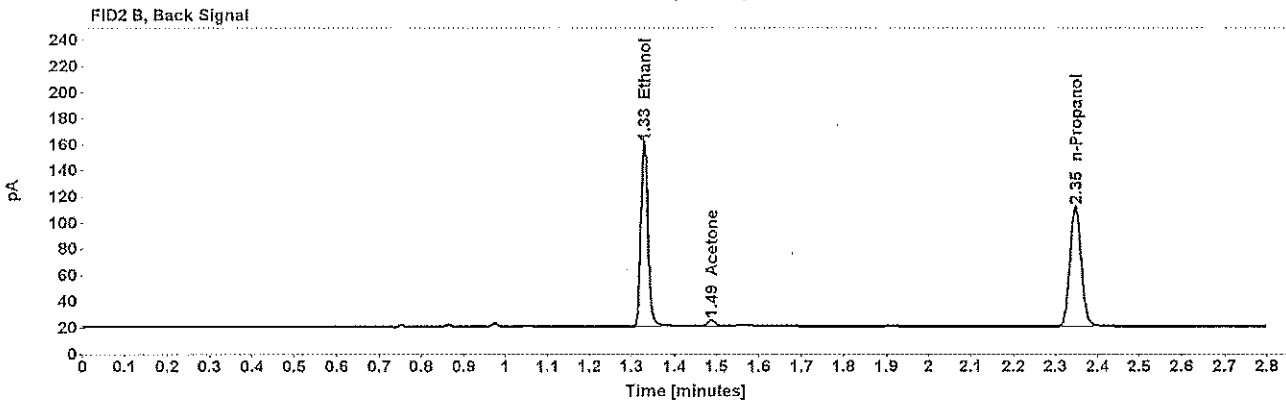
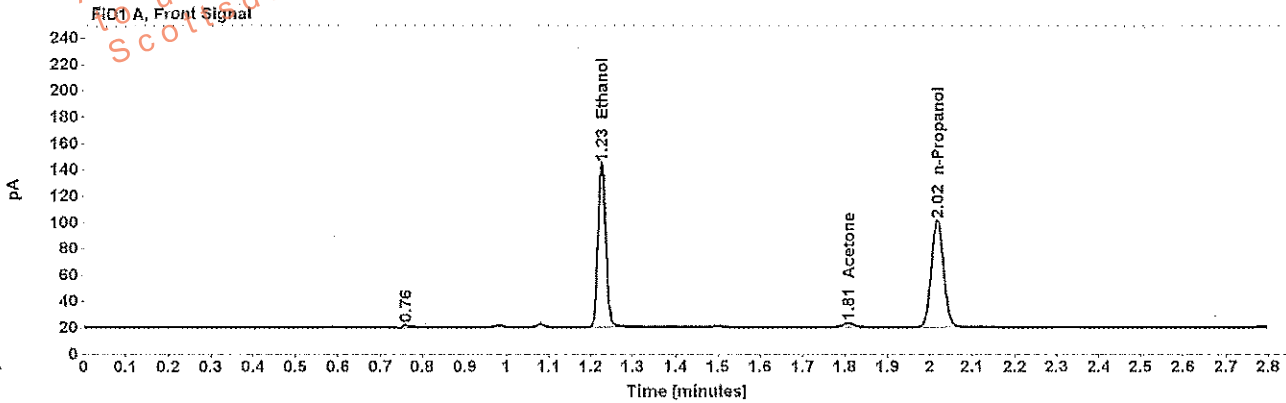


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2769	1.227	160.646
>Acetone	-----	1.808	5.612
>n-Propanol	-----	2.018	166.630

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.329	164.760
>Acetone	1.487	6.069
>n-Propanol	2.346	170.195

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1051552
Injection date:	7/5/2016 4:58:59 PM	Vial:	13
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\05Jul16\13.D		

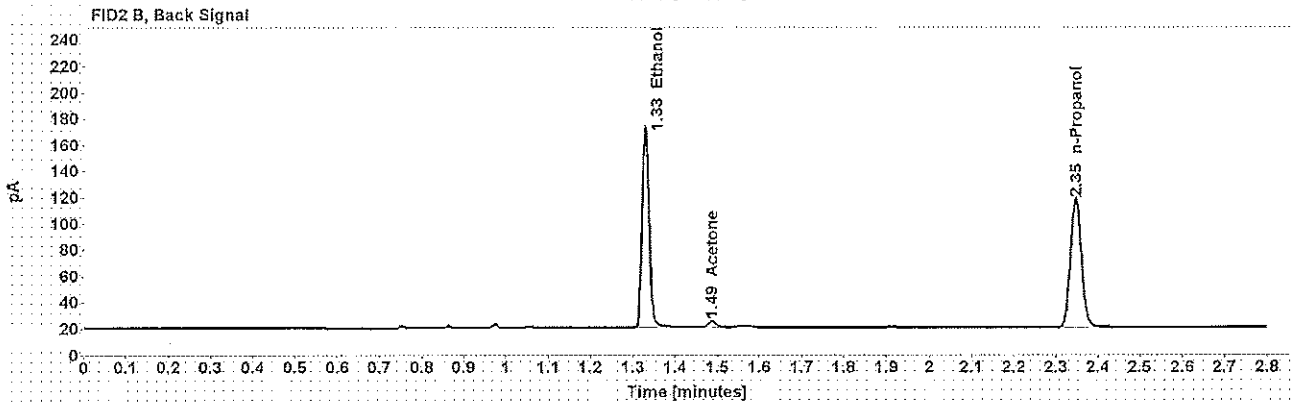
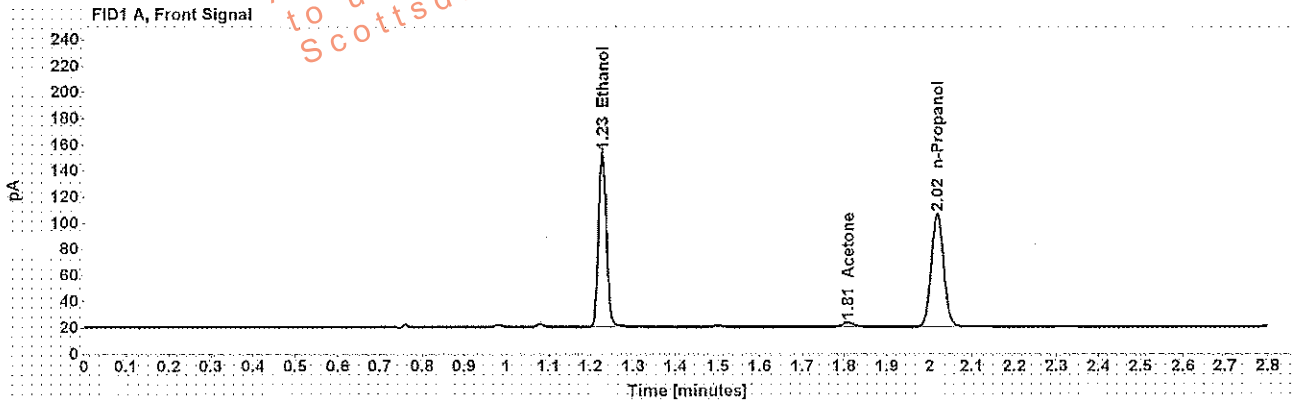


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2802	1.227	173.032
>Acetone	-----	1.809	5.841
>n-Propanol	-----	2.018	177.379

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.329	176.413
>Acetone	1.487	5.523
>n-Propanol	2.347	181.138

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	Item number: 1071762
Injection date: 7/5/2016 5:02:58 PM	Vial: 14
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\14.D	

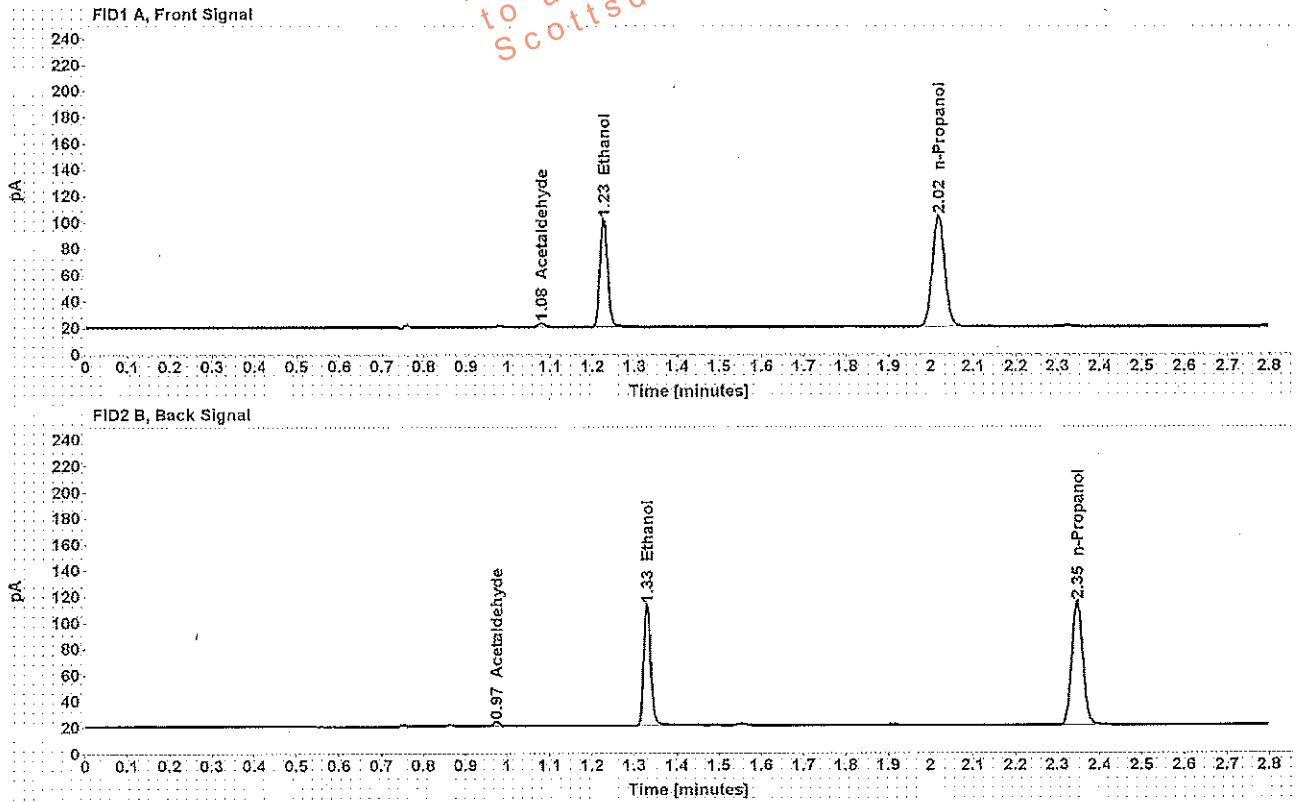


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.049
>Ethanol	0.1768	1.227	105.893
>n-Propanol	-----	2.017	172.443

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.206
>Ethanol	1.329	107.860
>n-Propanol	2.346	176.418

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1071762
Injection date: 7/5/2016 5:06:58 PM	Vial: 15
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11\Data\05Jul16\15.D	

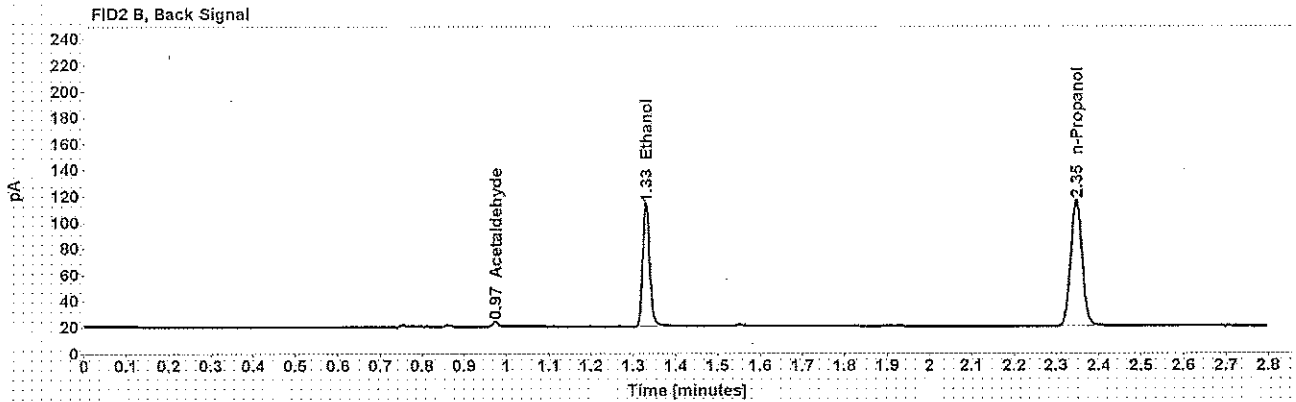
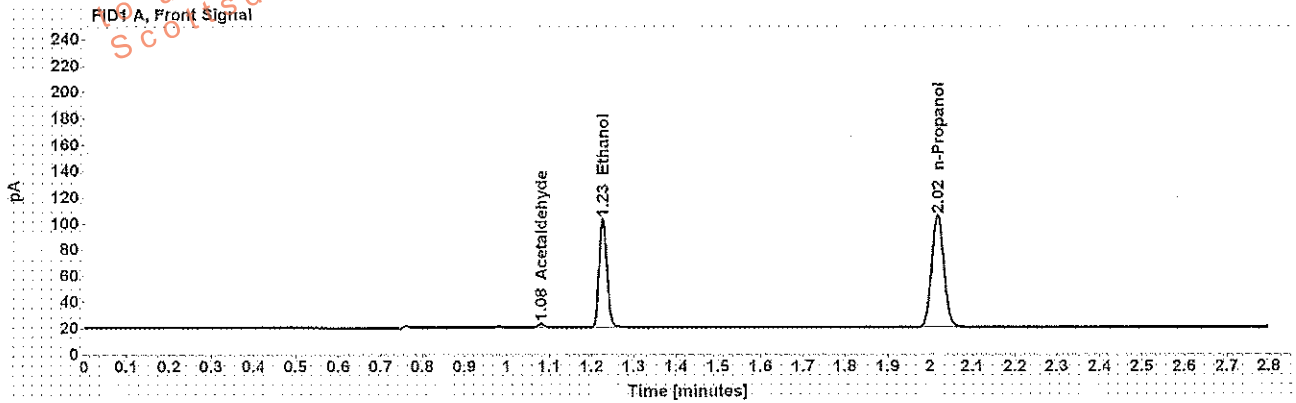


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.114
>Ethanol	0.1760	1.227	107.177
>n-Propanol	-----	2.017	175.316

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.245
>Ethanol	1.329	109.000
>n-Propanol	2.346	178.894

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:		Item number:	1083976
Injection date:	7/5/2016 5:11:00 PM	Vial:	16
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\16.D		

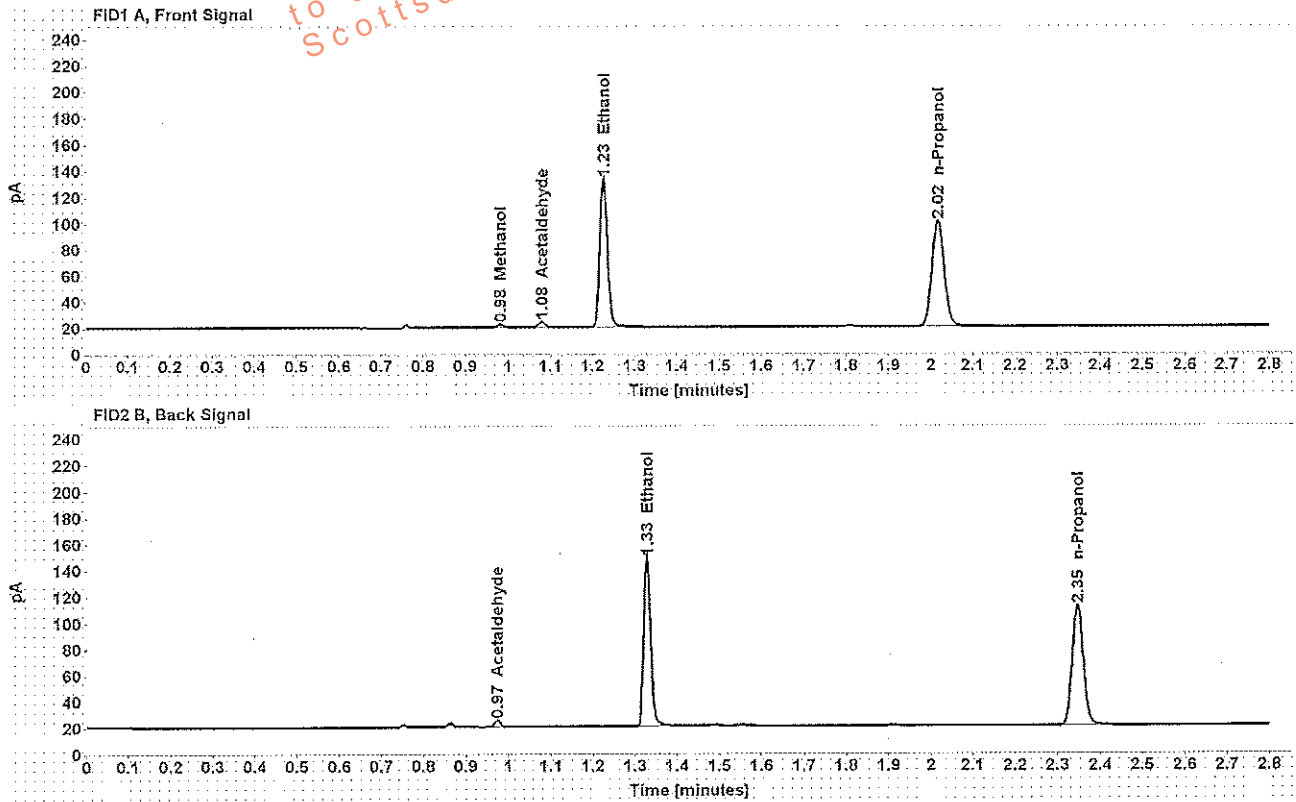


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Methanol	-----	0.982	2.860
>Acetaldehyde	-----	1.080	4.502
>Ethanol	0.2546	1.226	146.933
>n-Propanol	-----	2.017	165.798

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.728
>Ethanol	1.328	149.809
>n-Propanol	2.346	169.529

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX	Item number: 1083976
Injection date: 7/5/2016 5:14:58 PM	Vial: 17
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\17.D	

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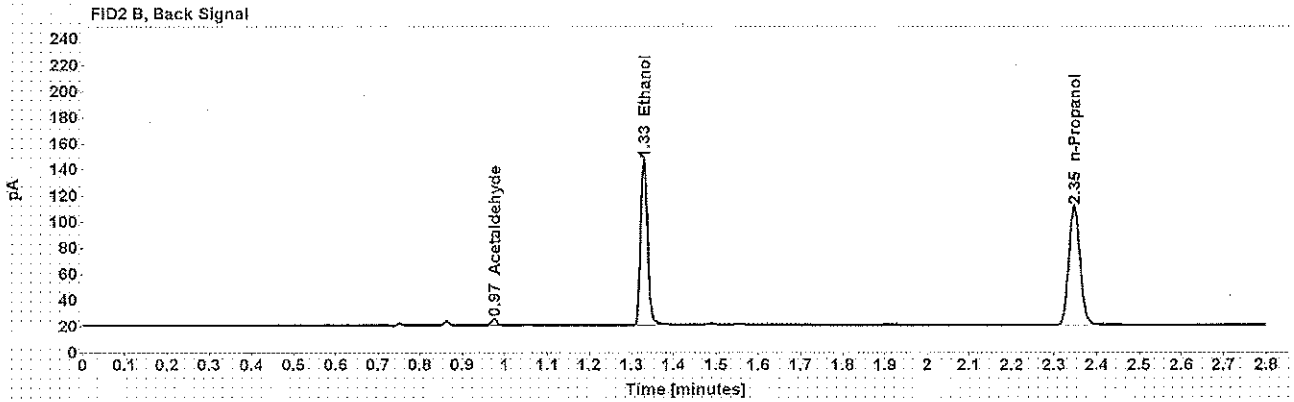
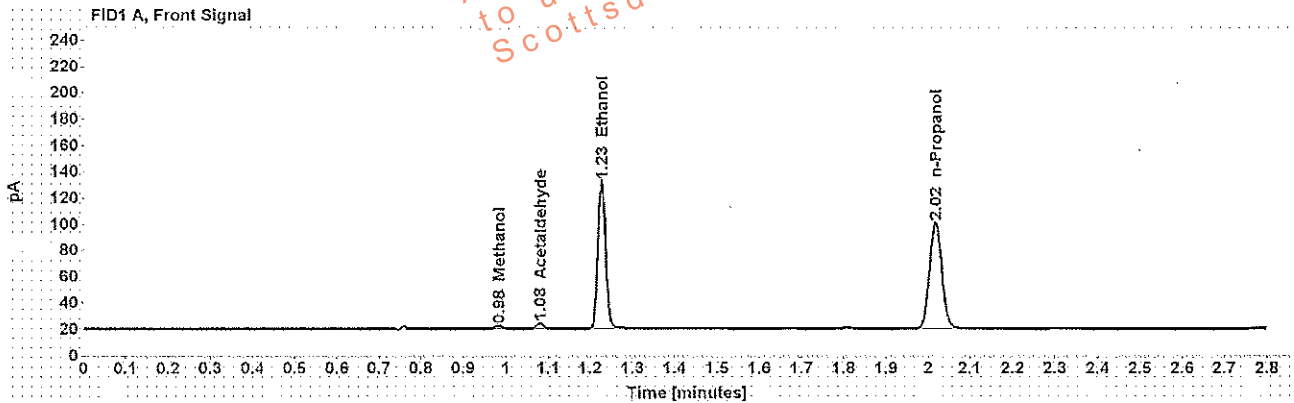


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Methanol	-----	0.982	2.920
>Acetaldehyde	-----	1.080	4.531
>Ethanol	0.2517	1.227	144.730
>n-Propanol	-----	2.018	165.248

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.748
>Ethanol	1.329	147.313
>n-Propanol	2.346	168.932

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1087948
Injection date:	7/5/2016 5:18:59 PM	Vial:	18
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\05Jul16\18.D		

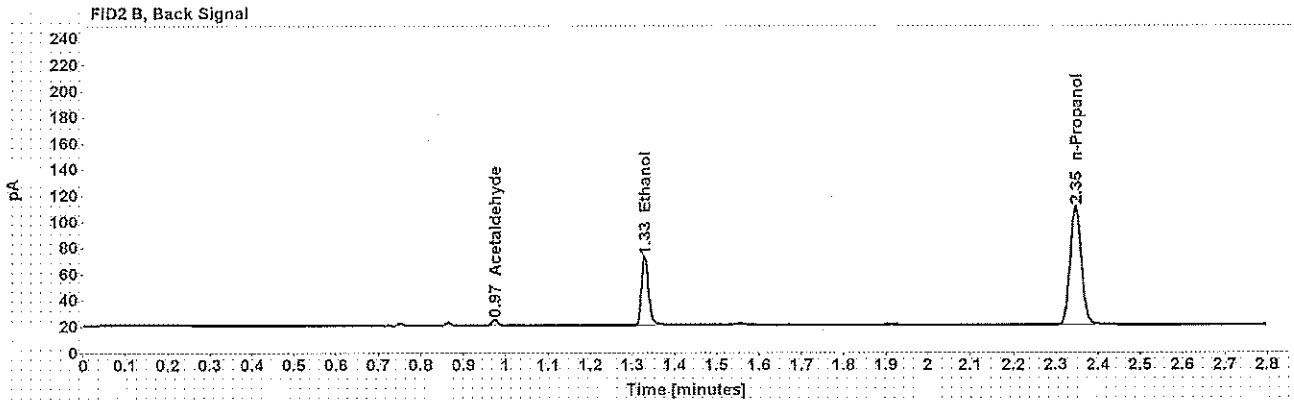
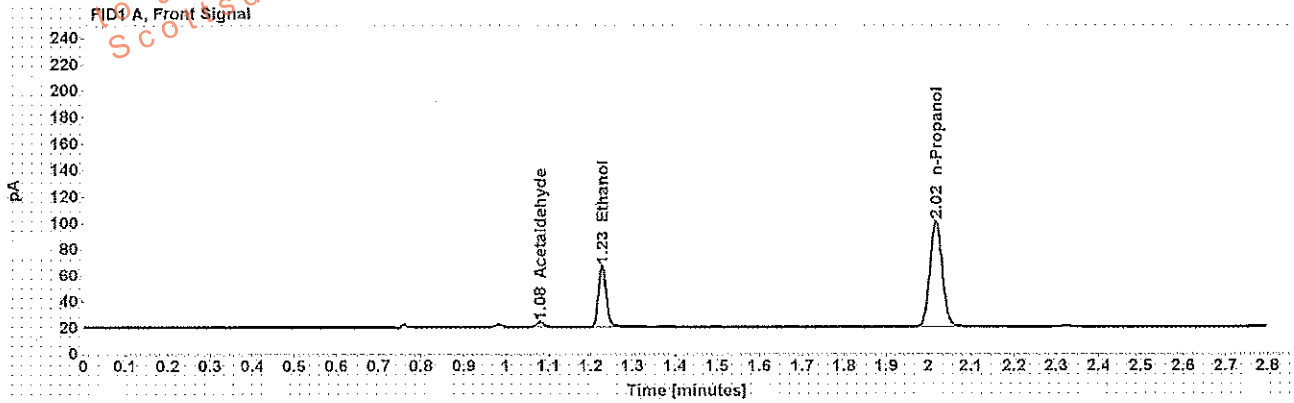


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	4.102
>Ethanol	0.1061	1.227	60.642
>n-Propanol	-----	2.017	165.267

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.321
>Ethanol	1.329	61.647
>n-Propanol	2.346	168.606

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1087948
Injection date:	7/5/2016 5:23:13 PM	Vial:	19
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\05Jul16\19.D		

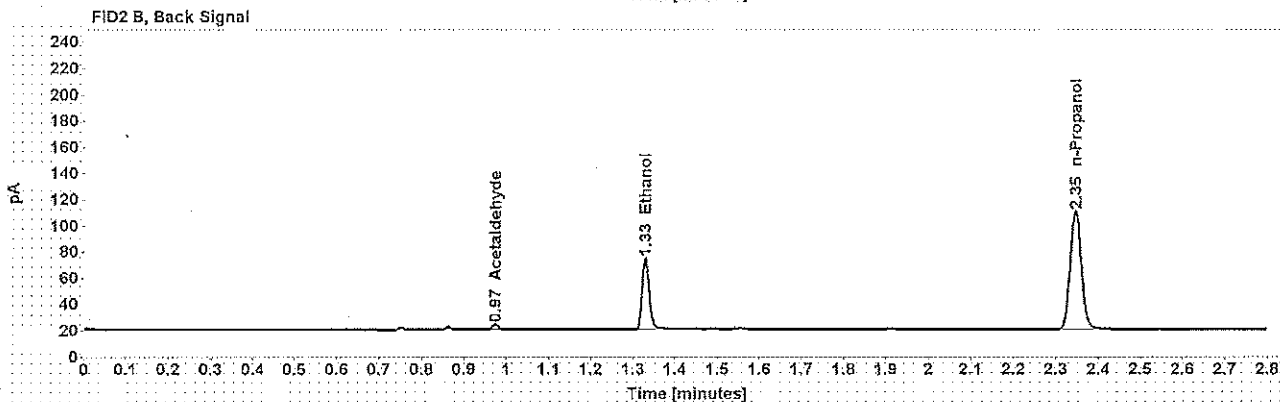
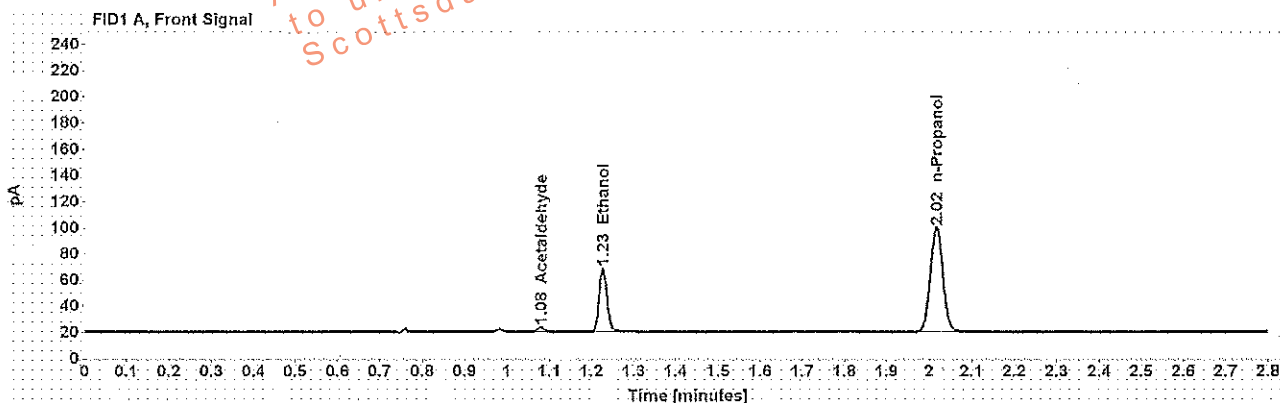


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.709
>Ethanol	0.1108	1.227	62.756
>n-Propanol	-----	2.017	163.633

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.914
>Ethanol	1.329	63.690
>n-Propanol	2.346	167.300

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1089121
Injection date:	7/5/2016 5:31:14 PM	Vial:	21
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\21.D		

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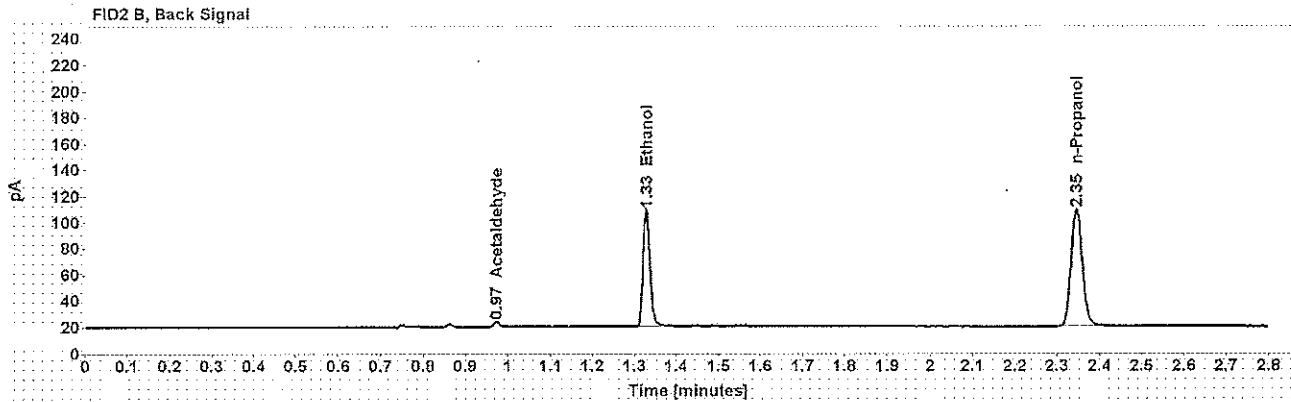
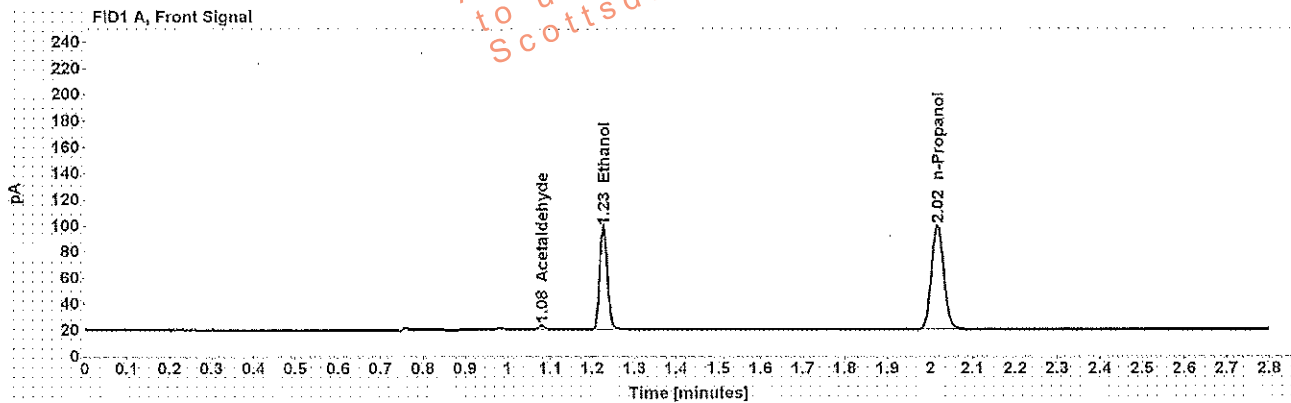


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.333
>Ethanol	0.1801	1.226	101.701
>n-Propanol	-----	2.017	162.518

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.515
>Ethanol	1.328	103.468
>n-Propanol	2.346	166.131

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX	Item number: 1089121
Injection date: 7/5/2016 5:35:13 PM	Vial: 22
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
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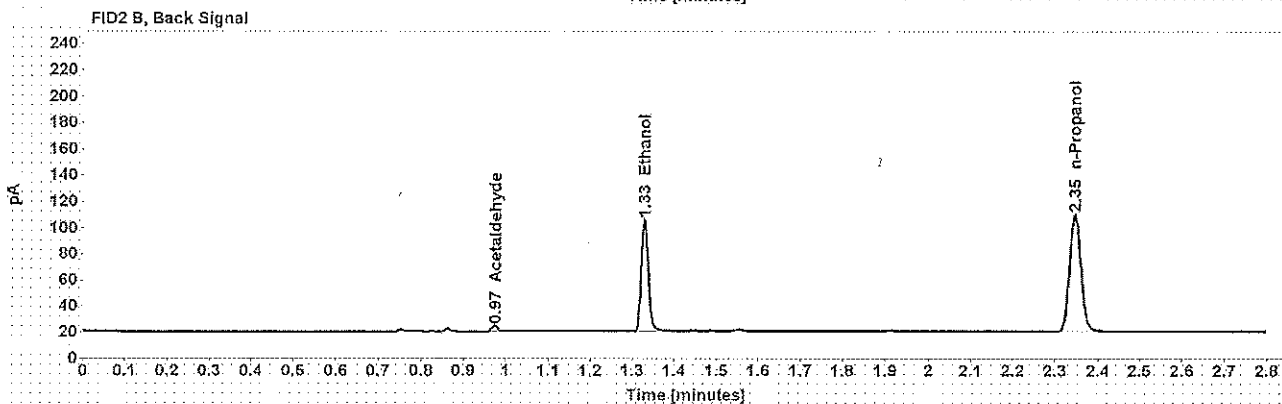
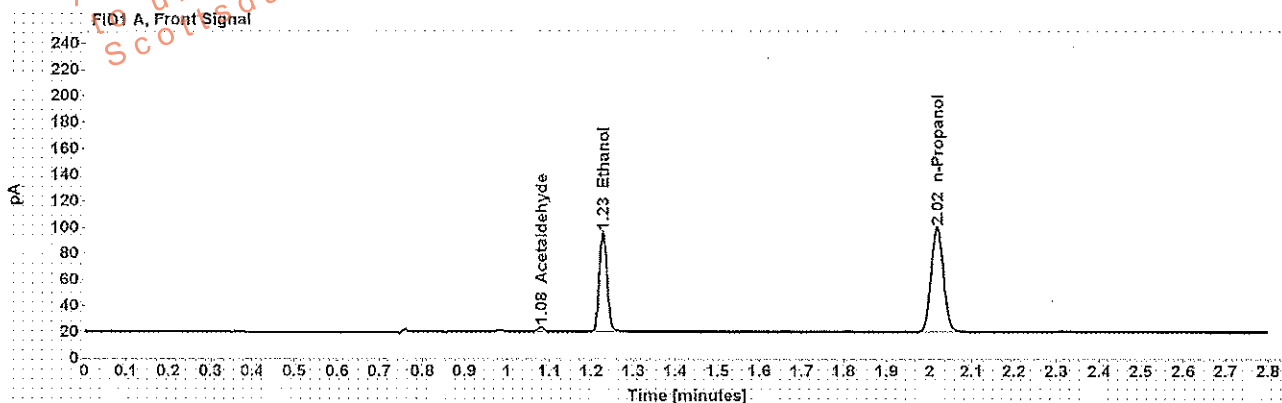


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.792
>Ethanol	0.1728	1.227	98.143
>n-Propanol	-----	2.017	163.559

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.948
>Ethanol	1.329	100.141
>n-Propanol	2.346	167.282

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1089436
Injection date:	7/5/2016 5:39:13 PM	Vial:	23
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\05Jul16\23.D		

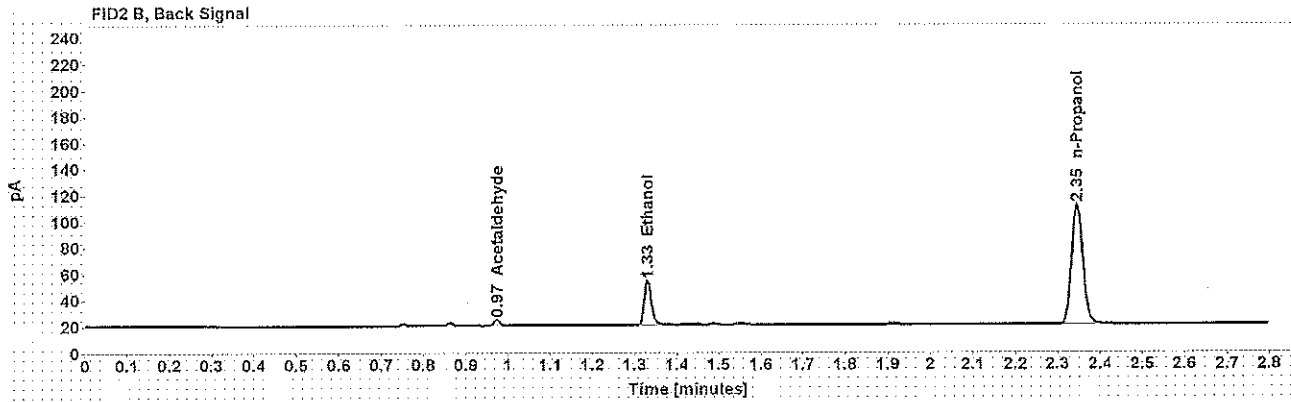
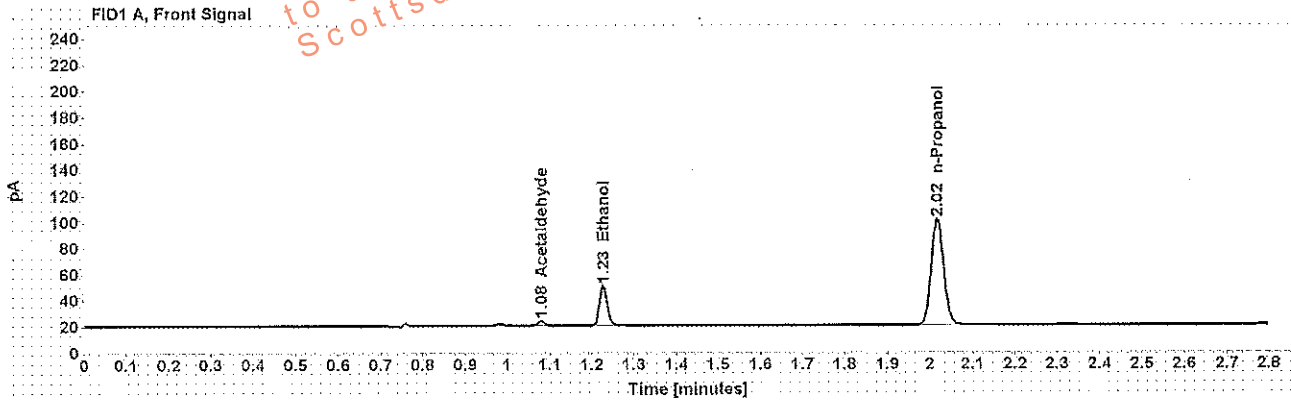


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	4.023
>Ethanol	0.0692	1.227	39.521
>n-Propanol	-----	2.017	166.120

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.236
>Ethanol	1.329	40.725
>n-Propanol	2.346	169.738

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1089436
 Injection date: 7/5/2016 5:43:13 PM Via: 24
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
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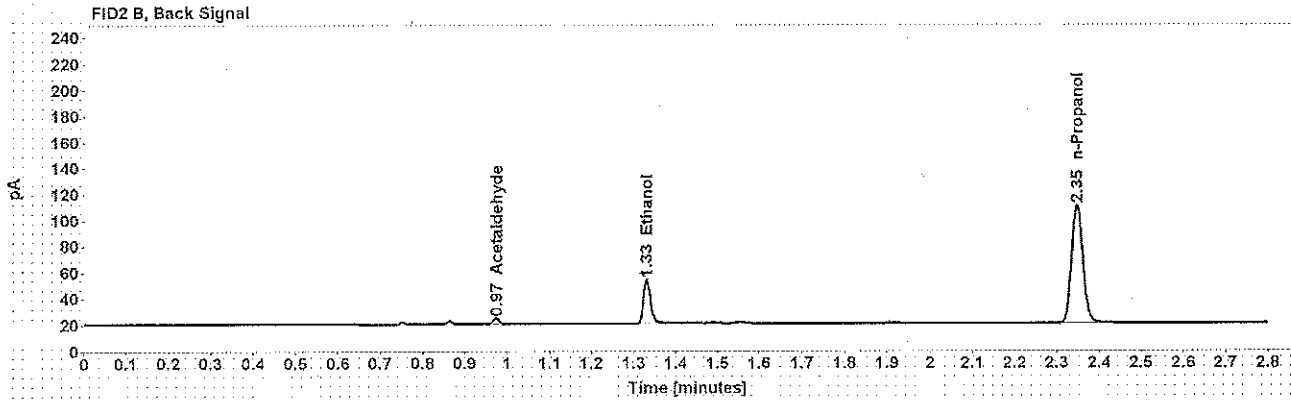
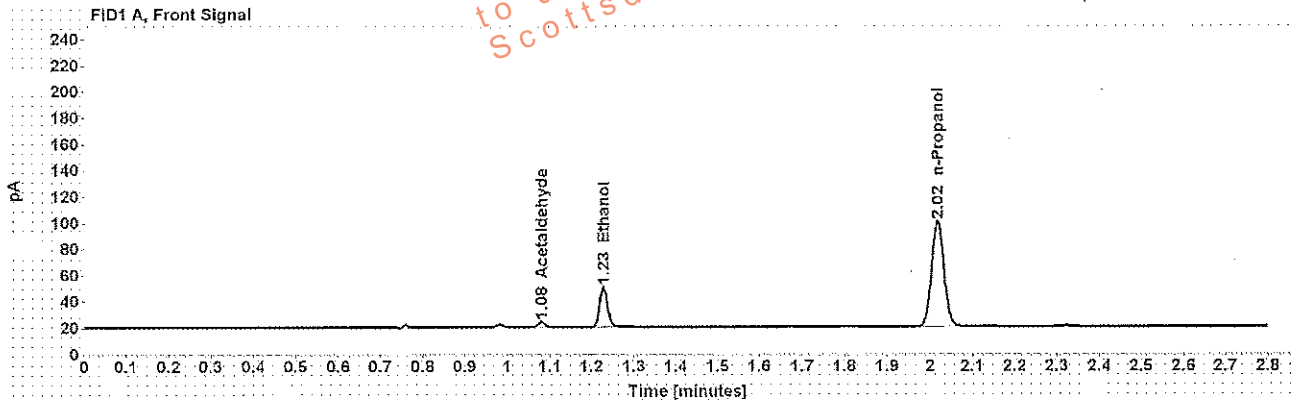


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.081	4.009
>Ethanol	0.0695	1.228	39.253
>n-Propanol	-----	2.018	164.273

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.139
>Ethanol	1.331	40.629
>n-Propanol	2.347	168.090

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1089568
Injection date: 7/5/2016 5:47:28 PM	Vial: 25
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11\Data\05Jul16\25.D	

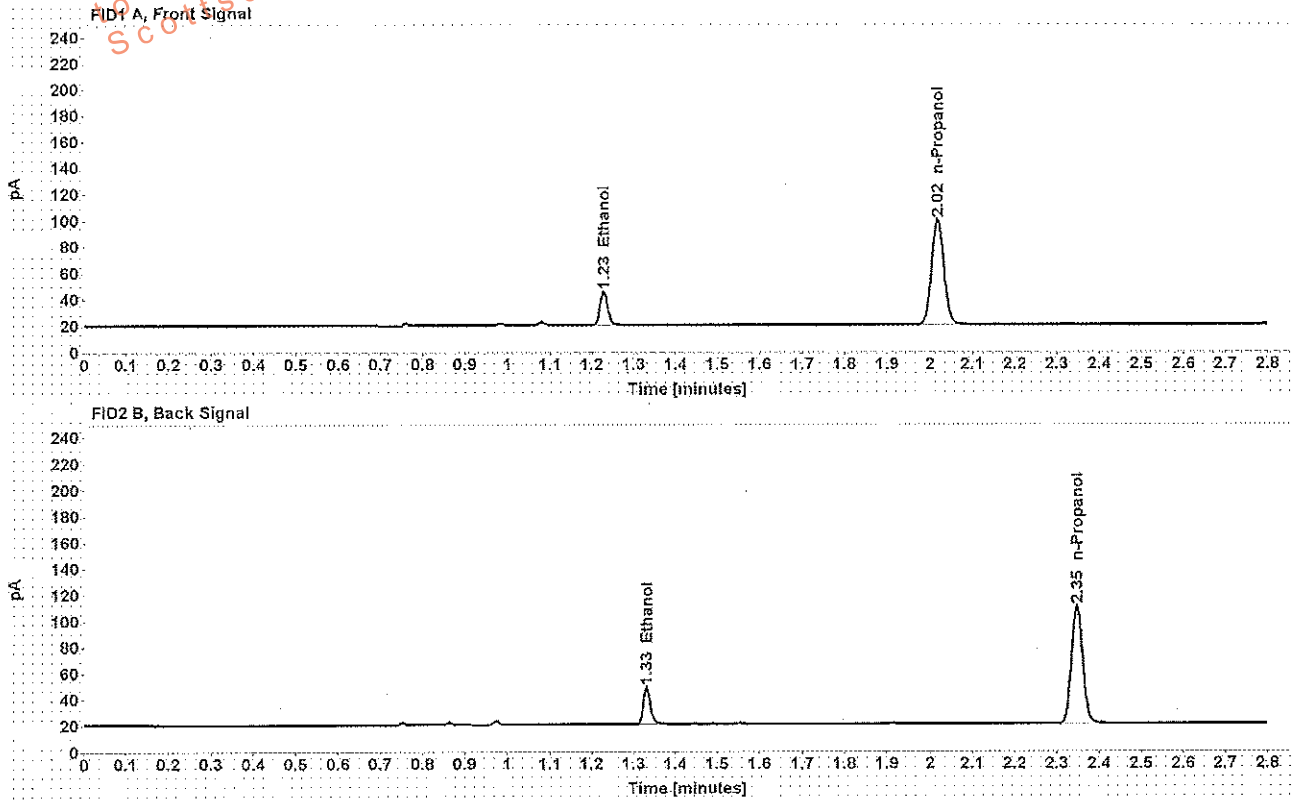


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0591	1.228	33.267
>n-Propanol	-----	2.018	163.971

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.331	34.262
>n-Propanol	2.347	167.293

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1089568
Injection date:	7/5/2016 5:51:30 PM	Vial:	26
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
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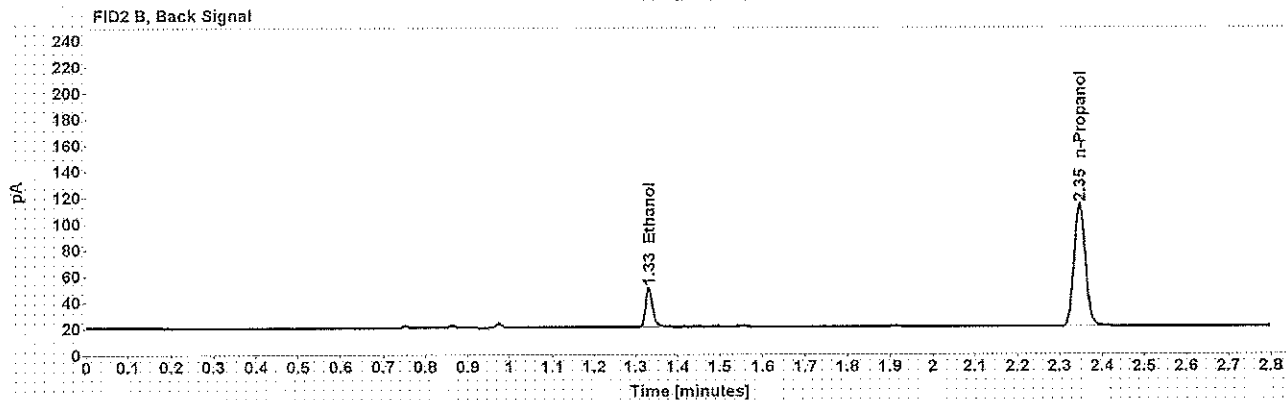
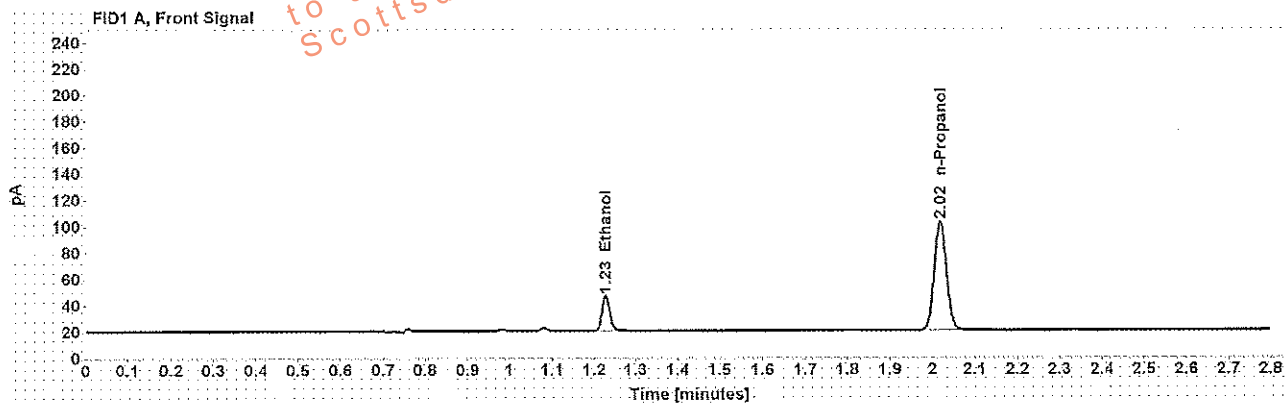


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0595	1.228	34.562
>n-Propanol	-----	2.018	169.335

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.331	35.544
>n-Propanol	2.347	172.900

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX Item number: 1089584
 Injection date: 7/5/2016 5:55:29 PM Vial: 27
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\05Jul16\27.D

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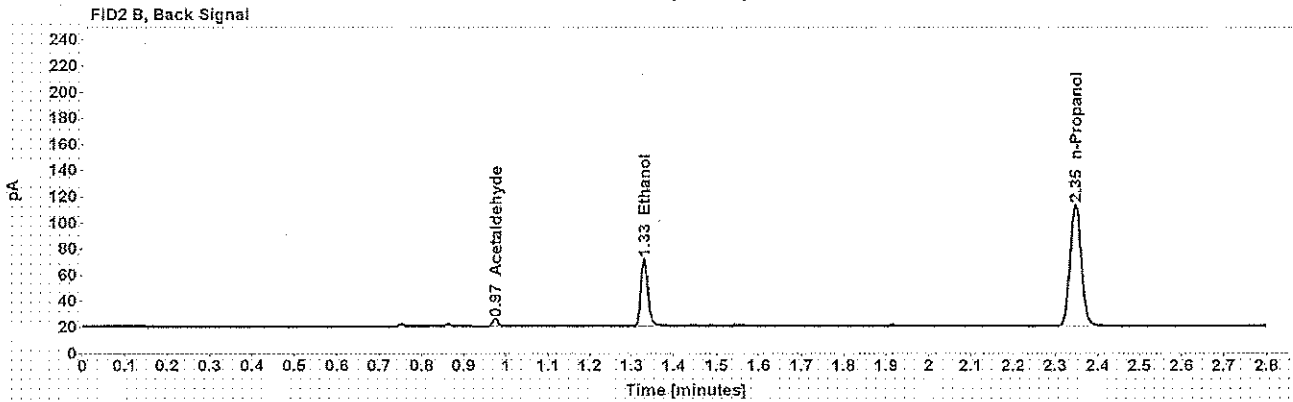
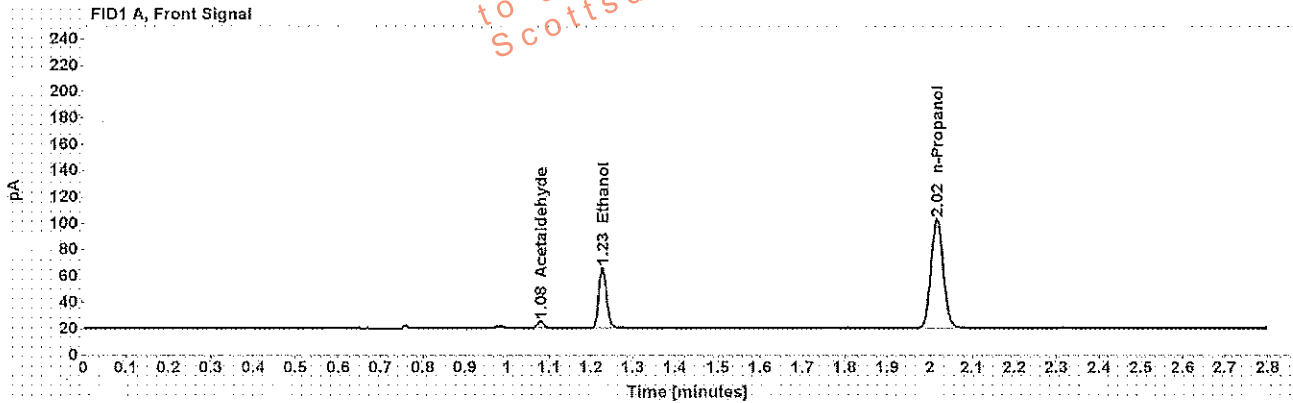


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	5.118
>Ethanol	0.1011	1.227	59.347
>n-Propanol	-----	2.018	169.724

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	5.316
>Ethanol	1.330	60.173
>n-Propanol	2.346	173.314

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1089584
Injection date:	7/5/2016 5:59:28 PM	Vial:	28
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173028 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\05Jul16\28.D		

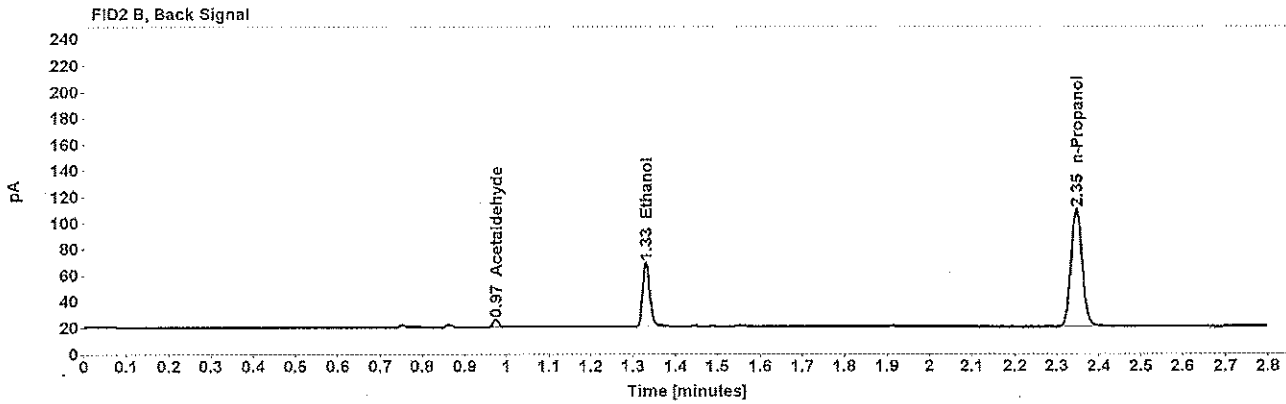
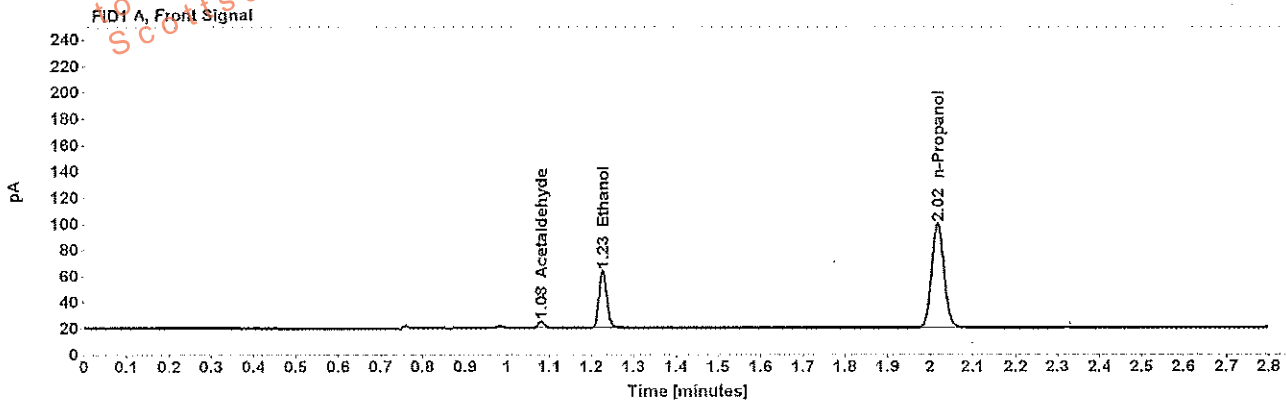


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	5.123
>Ethanol	0.1004	1.227	56.646
>n-Propanol	-----	2.017	163.169

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	5.291
>Ethanol	1.329	58.249
>n-Propanol	2.346	166.797

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1090873
Injection date:	7/5/2016 6:03:28 PM	Vial:	29
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\29.D		

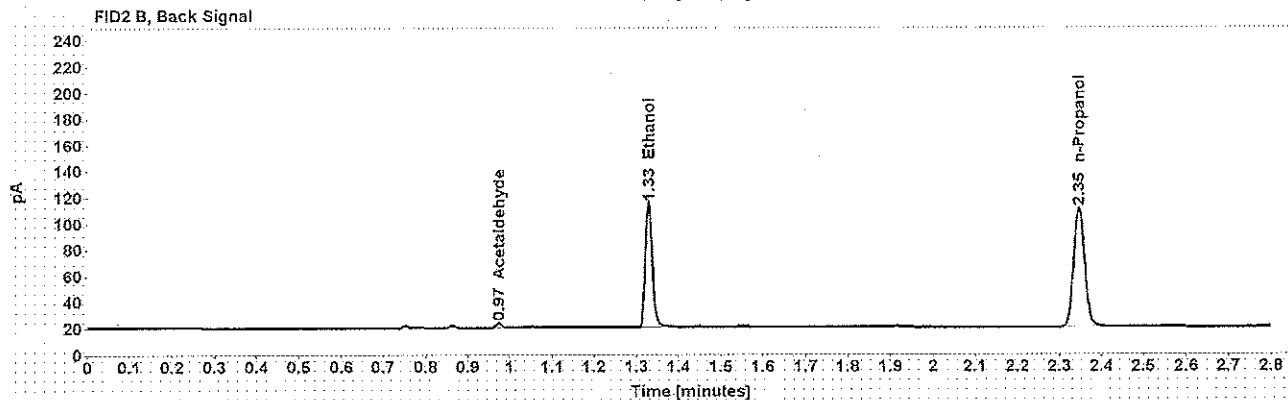
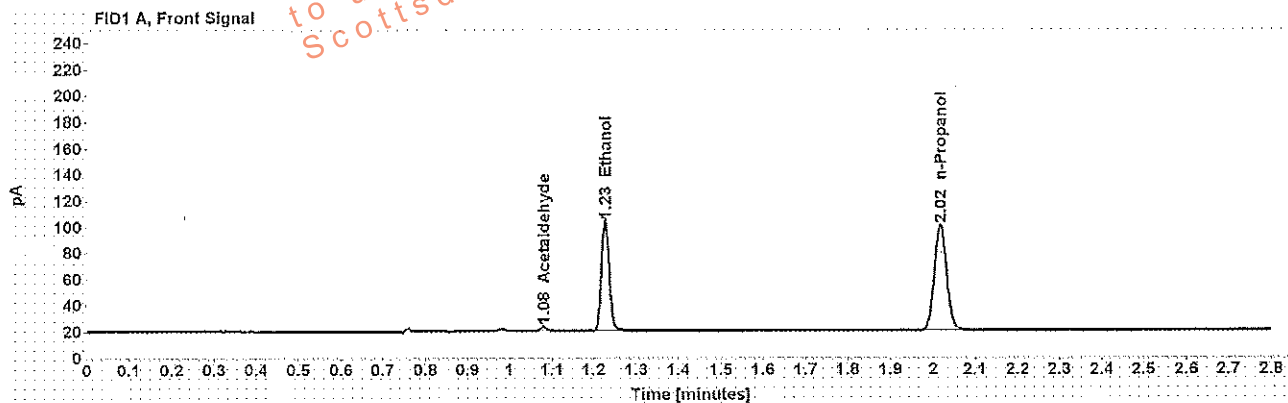


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.155
>Ethanol	0.1898	1.227	108.831
>n-Propanol	-----	2.017	165.027

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.299
>Ethanol	1.328	110.659
>n-Propanol	2.346	168.493

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1090873
Injection date: 7/5/2016 6:07:30 PM	Vial: 30
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\30.D	

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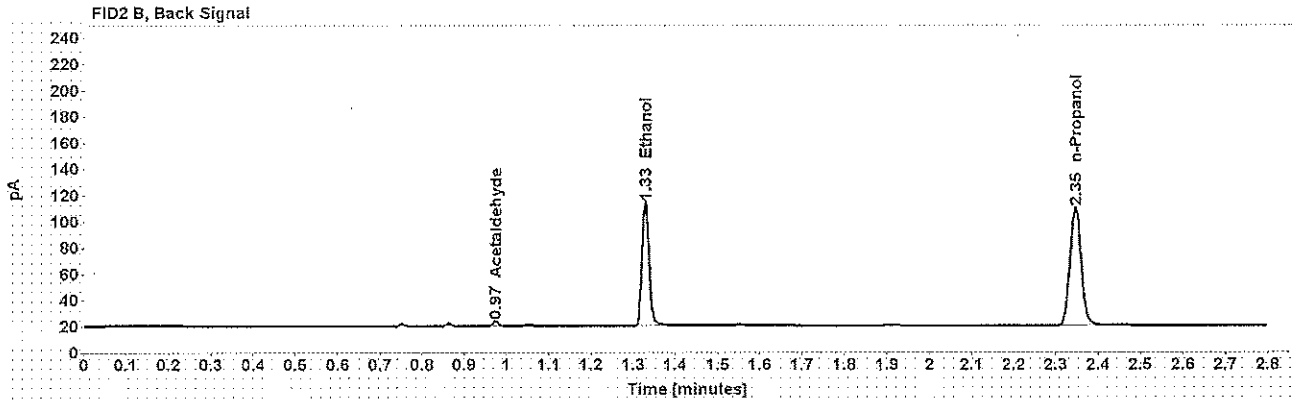
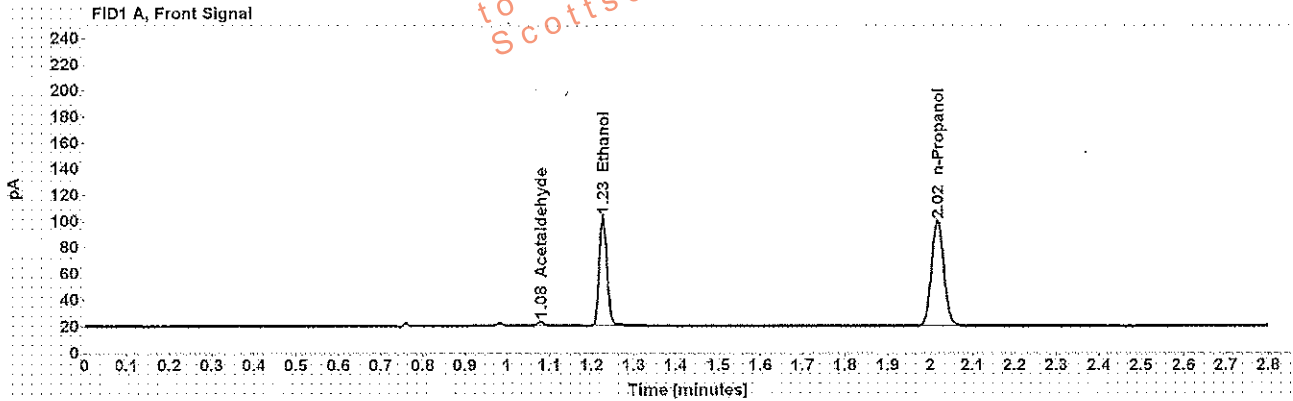


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.103
>Ethanol	0.1895	1.227	107.971
>n-Propanol	-----	2.017	163.920

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.265
>Ethanol	1.328	109.588
>n-Propanol	2.346	167.089

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1091019
Injection date: 7/5/2016 6:15:44 PM	Vial: 32
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11\Data\05Jul16\32.D	

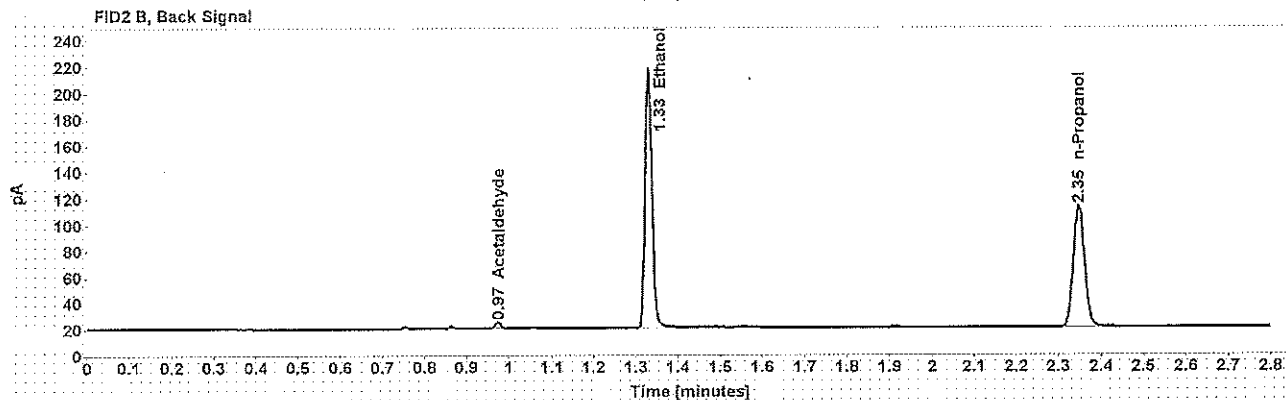
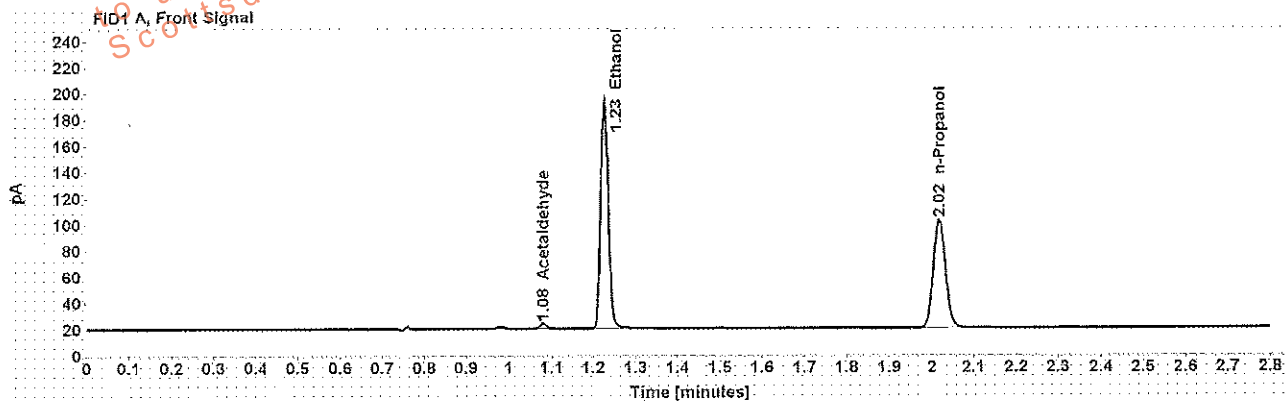


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.081	4.275
>Ethanol	0.3804	1.227	223.721
>n-Propanol	-----	2.018	168.752

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.459
>Ethanol	1.329	229.420
>n-Propanol	2.347	172.290

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:		Item number:	1091019
Injection date:	7/5/2016 6:19:43 PM	Vial:	33
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\05Jul16\33.D		

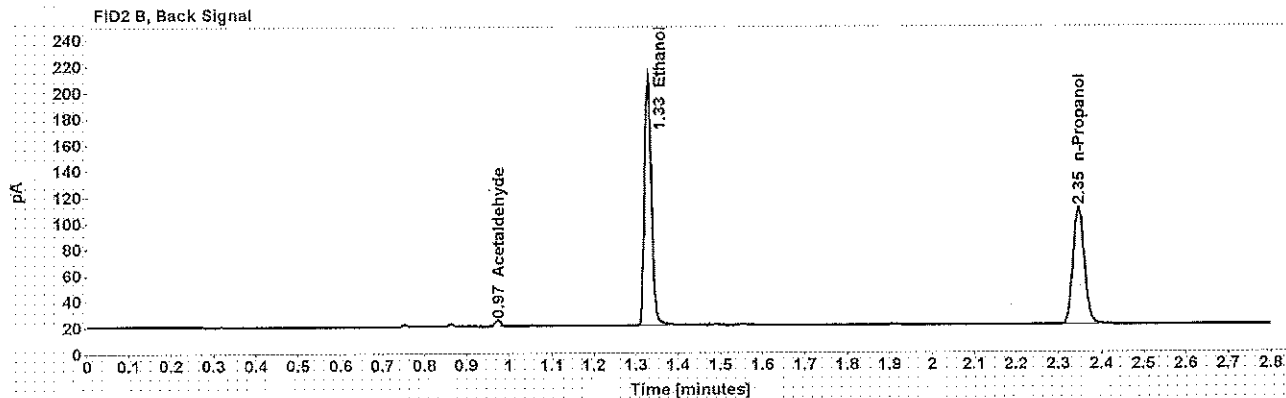
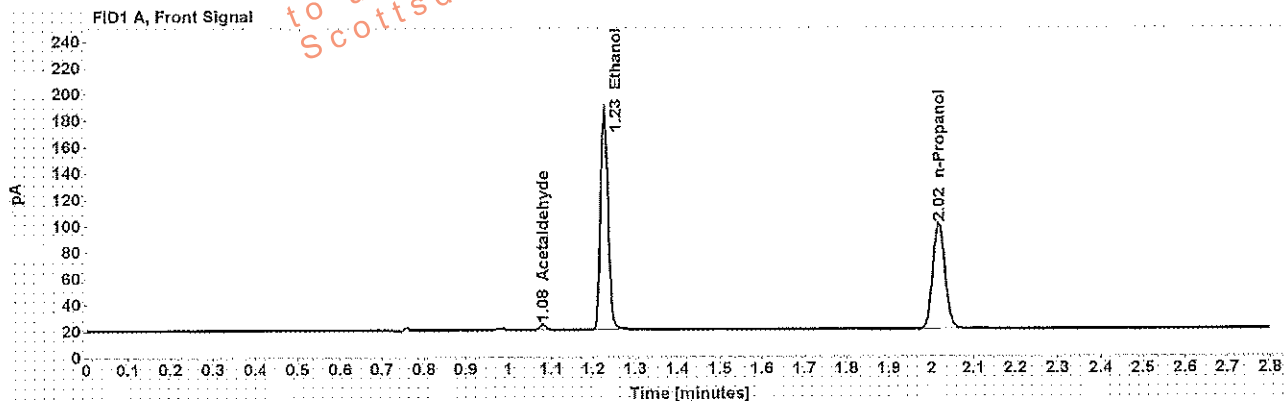


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	4.190
>Ethanol	0.3763	1.226	215.027
>n-Propanol	-----	2.018	163.933

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.416
>Ethanol	1.328	220.961
>n-Propanol	2.346	167.449

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX	Item number: 1091104
Injection date: 7/5/2016 6:23:45 PM	Vial: 34
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\34.D	

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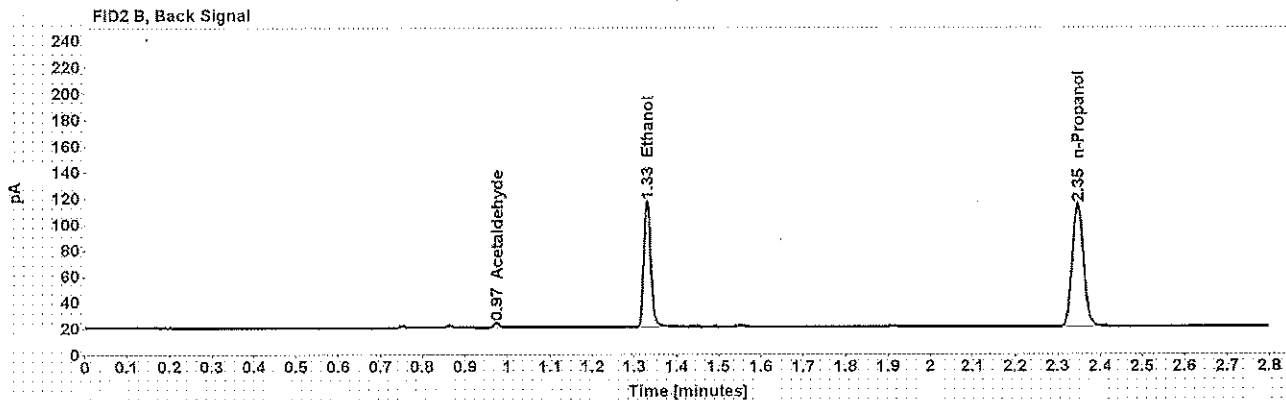
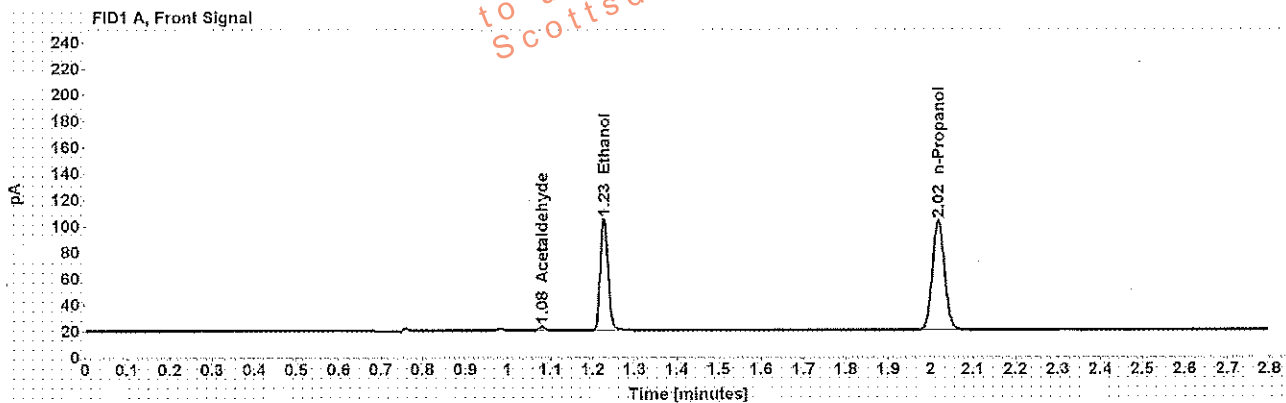


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.081	3.031
>Ethanol	0.1861	1.227	110.292
>n-Propanol	-----	2.018	170.589

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.149
>Ethanol	1.329	112.413
>n-Propanol	2.347	174.431

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1091104
Injection date:	7/5/2016 6:27:43 PM	Vial:	35
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173028 CN14160045	Analyst:	Langan
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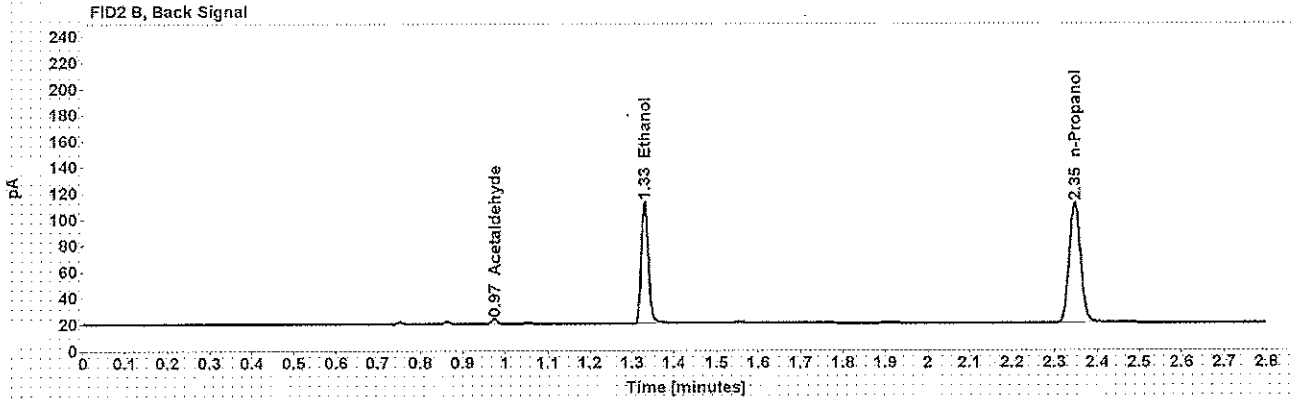
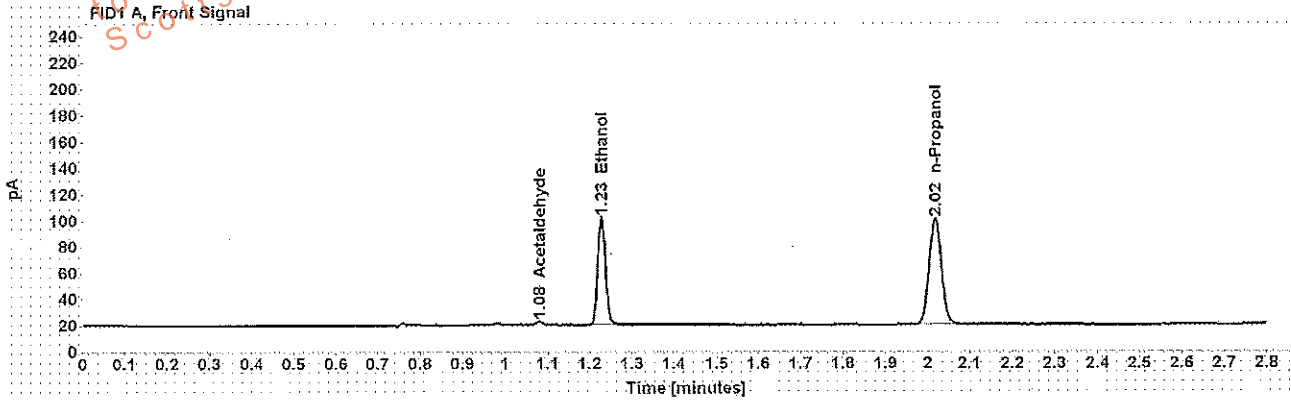


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	3.029
>Ethanol	0.1839	1.227	106.429
>n-Propanol	-----	2.018	166.534

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	3.135
>Ethanol	1.329	108.218
>n-Propanol	2.347	169.858

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1091134
Injection date:	7/5/2016 6:31:44 PM	Vial:	36
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\36.D		

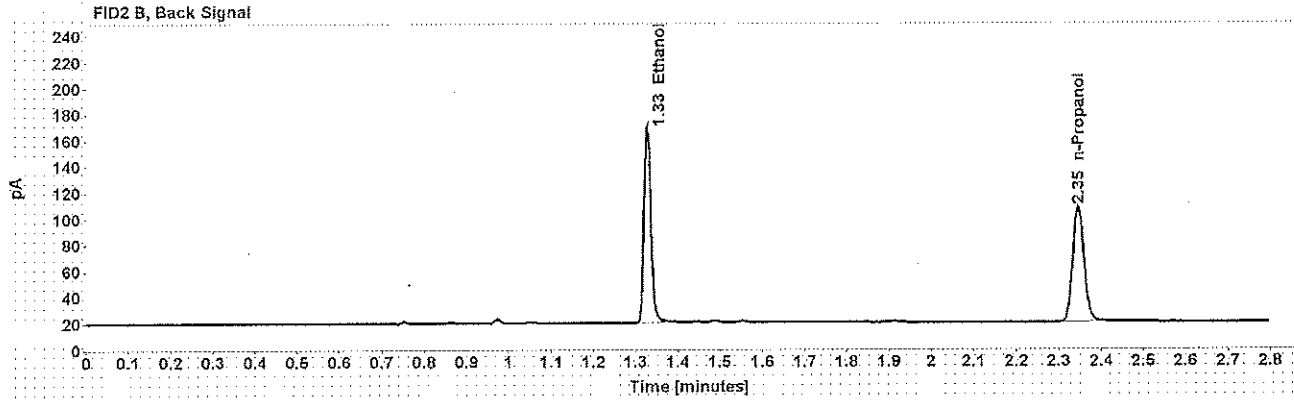
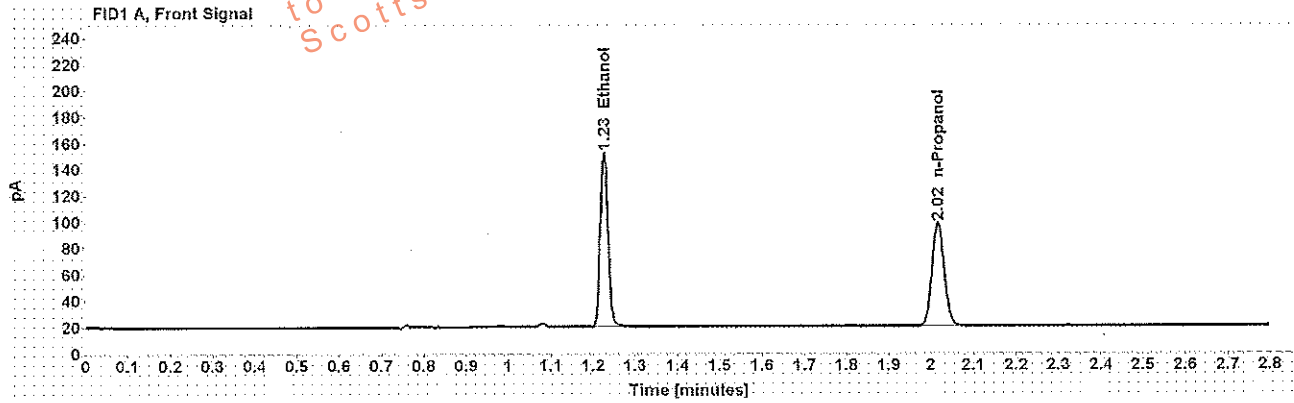


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3068	1.226	171.691
>n-Propanol	-----	2.017	160.665

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.328	175.160
>n-Propanol	2.346	164.195

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1091134
Injection date: 7/5/2016 6:35:59 PM	Vial: 37
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
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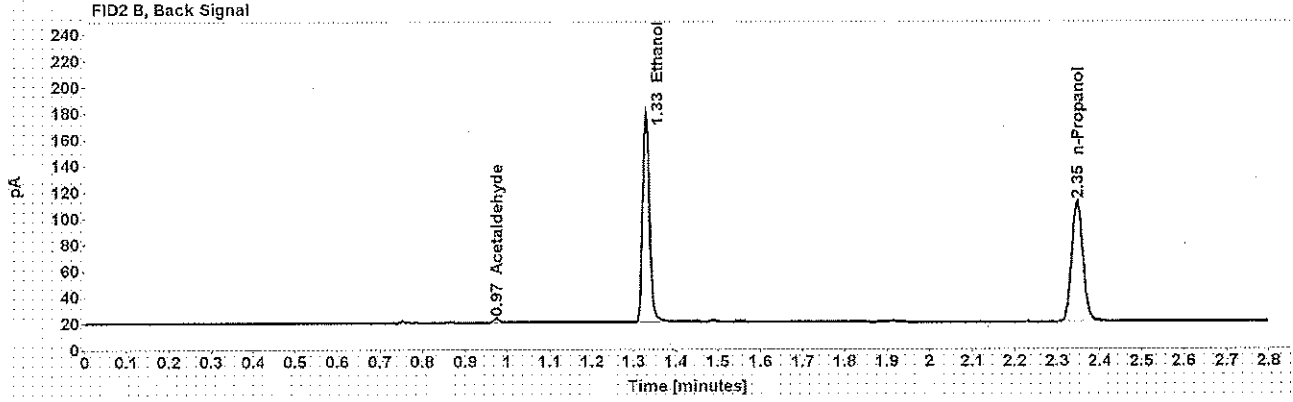
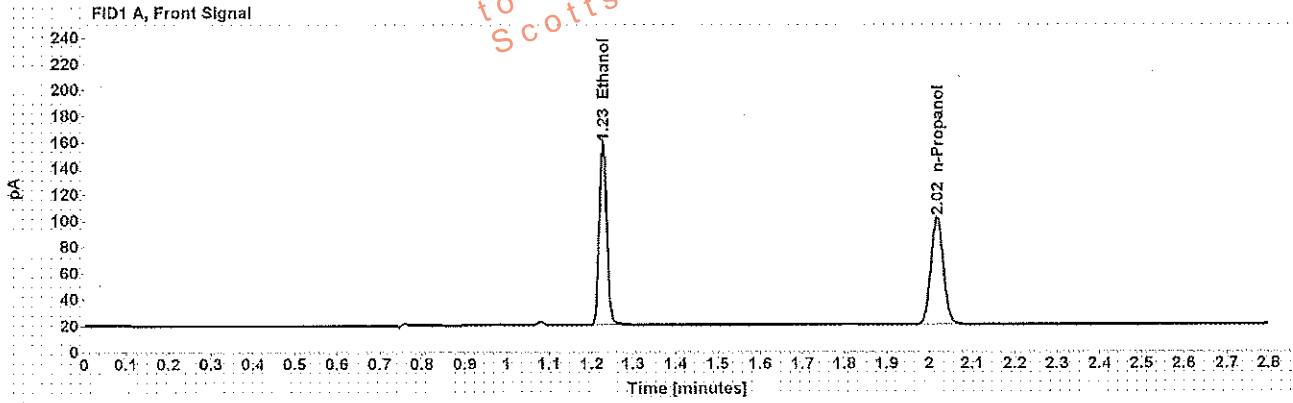


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	.03087	1.226	179.734
>n-Propanol	-----	2.017	167.173

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	2.835
>Ethanol	1.328	184.883
>n-Propanol	2.346	171.086

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX	Item number: 1091559
Injection date: 7/5/2016 6:39:58 PM	Vial: 38
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173028 CN14160045	Analyst: Langan
Data file: C:\Chem32\11\Data\05Jul16\38.D	

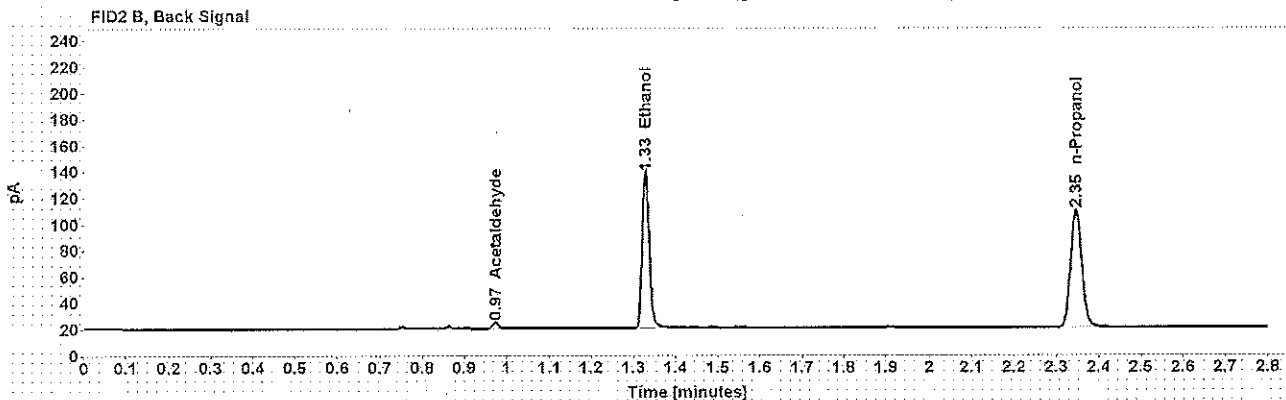
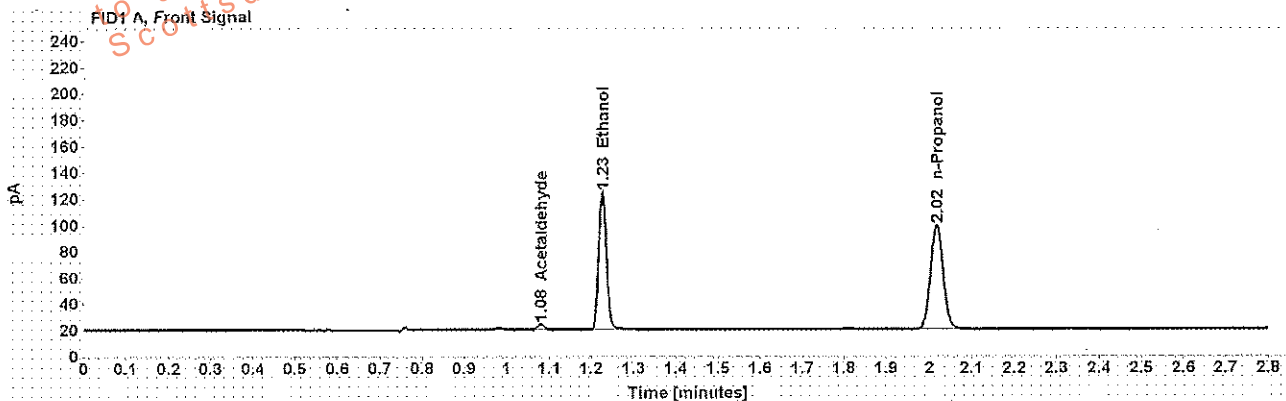


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	4.253
>Ethanol	0.2399	1.226	136.095
>n-Propanol	-----	2.017	163.036

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.470
>Ethanol	1.328	138.640
>n-Propanol	2.346	166.286

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1091559
Injection date:	7/5/2016 6:43:58 PM	Vial:	39
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Instrument:	US14173023 CN14160045	Analyst:	Langan
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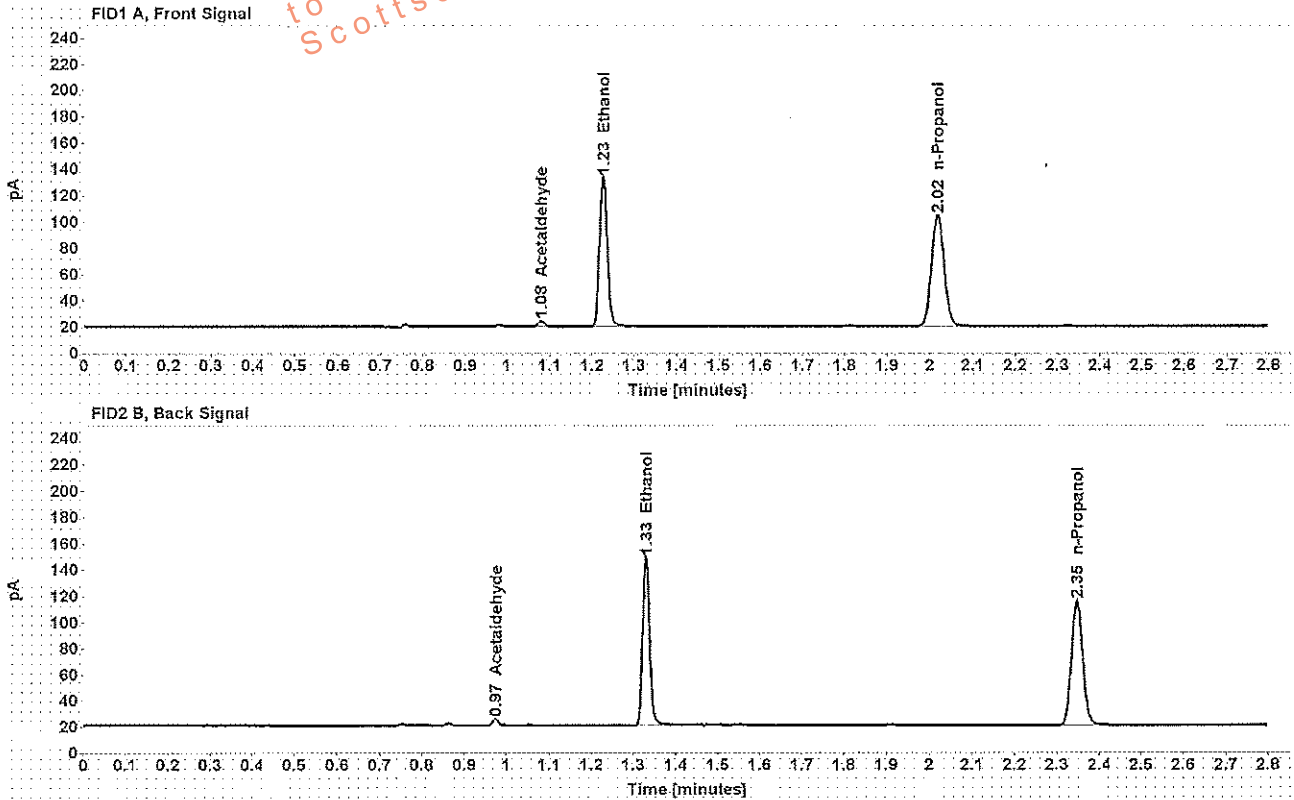


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Acetaldehyde	-----	1.080	4.457
>Ethanol	0.2434	1.227	146.857
>n-Propanol	-----	2.018	173.409

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Acetaldehyde	0.974	4.679
>Ethanol	1.329	149.748
>n-Propanol	2.347	177.102

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX	Item number: 1073204
Injection date: 7/5/2016 6:47:58 PM	Vial: 40
Method: ethanol quant.M	Sequence: 05Jul16.S
Instrument: US14173023 CN14160045	Analyst: Langan
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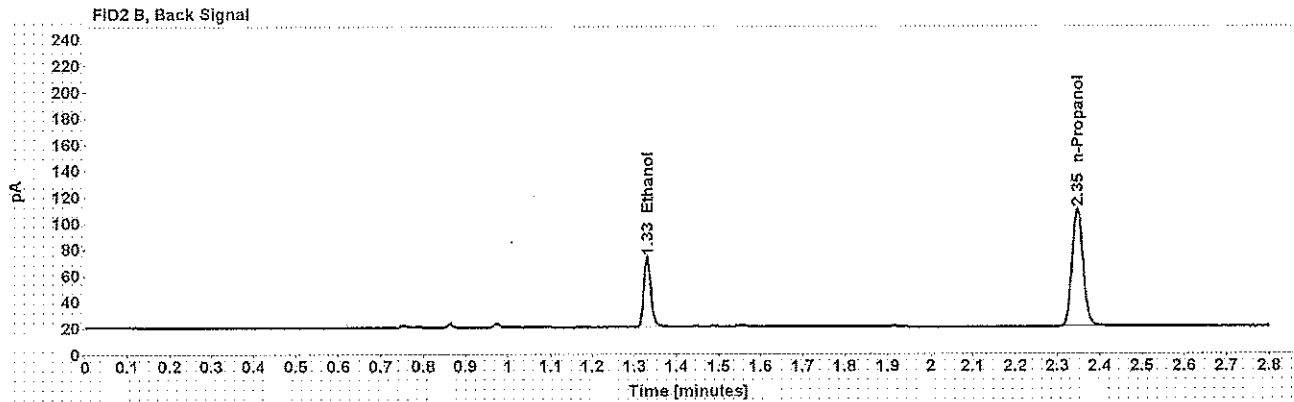
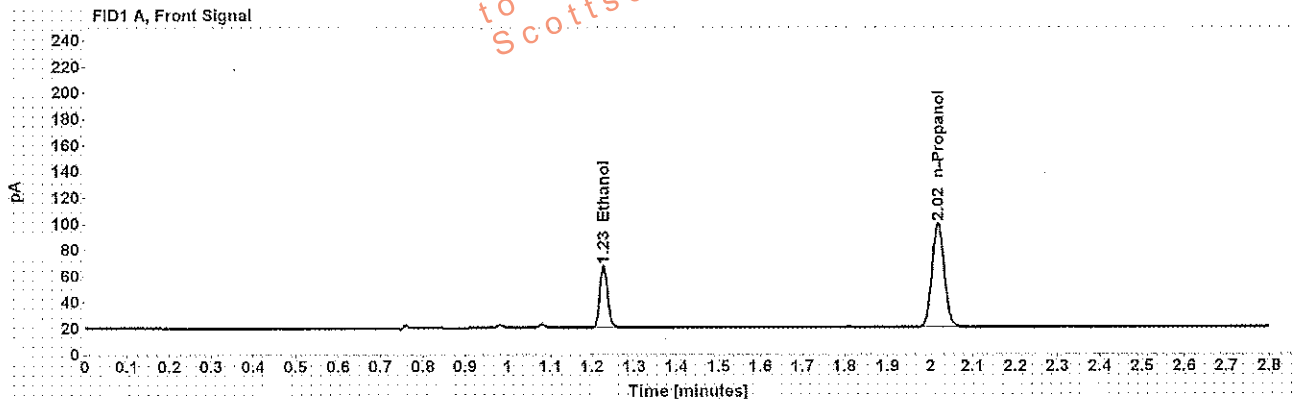


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1088	1.227	61.314
>n-Propanol	-----	2.018	162.816

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.330	62.400
>n-Propanol	2.347	166.316

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1073204
Injection date:	7/5/2016 6:52:00 PM	Vial:	41
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
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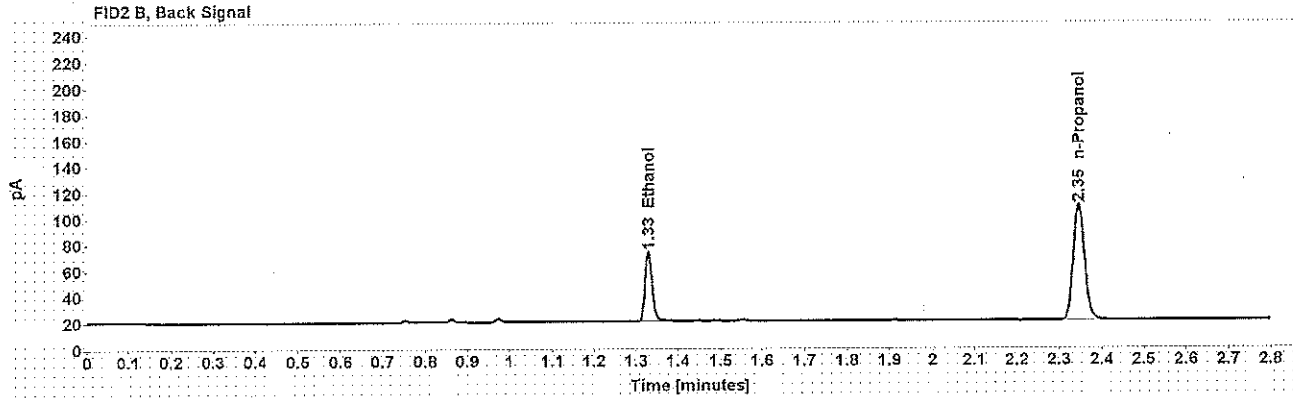
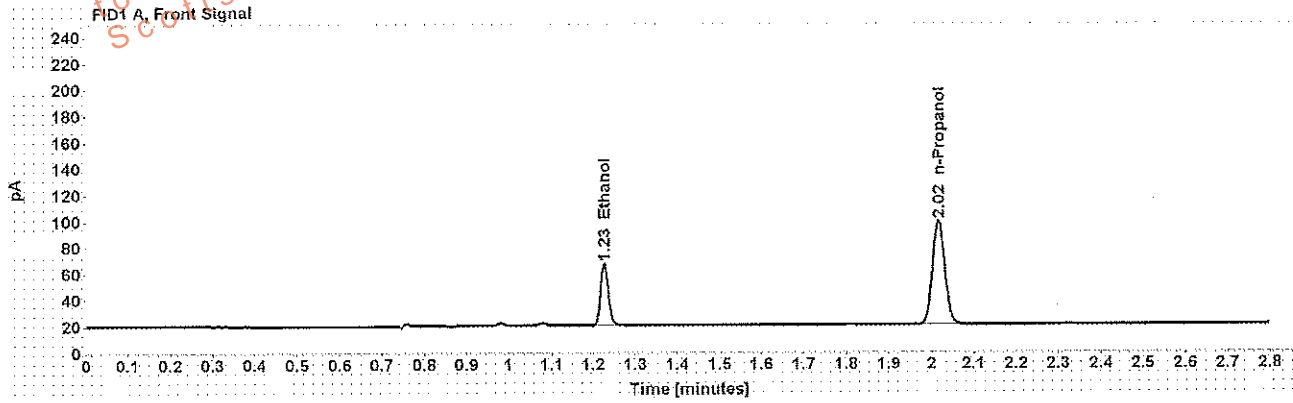


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1094	1.227	61.303
>n-Propanol	-----	2.017	161.892

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
>Ethanol	1.329	62.388
>n-Propanol	2.345	165.642