

**SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY  
BLOOD ALCOHOL FACE SHEET**

ANALYSIS DATE 07/20/2016 SEQUENCE NAME 20Jul16

**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<sup>2</sup>)  
 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	0.202g/dL	ACQ 402101060/6
20	aqueous control	0.080 g/dL	0.079g/dL	Lipomed 14112011-A
31	aqueous control	0.150 g/dL	0.151g/dL	Lipomed 11012012-C
42	blood control	0.200 g/dL	0.202g/dL	ACQ 402101060/6
45	aqueous control	0.400 g/dL	0.406g/dL	Lipomed 05012012-C
46	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
47	blood control	0.200 g/dL	0.206g/dL	ACQ 402101060/6
48	blank	Not detected	Not detected	SPD lab 110215

**SUBJECT SAMPLES**

Subjects in the sequence 16 Subjects requiring reanalysis 0

**ADDITIONAL NOTES: Vials 40 and 41 are reanalyzed samples from run 12Jul16 1. All testing proceeded as expected.**

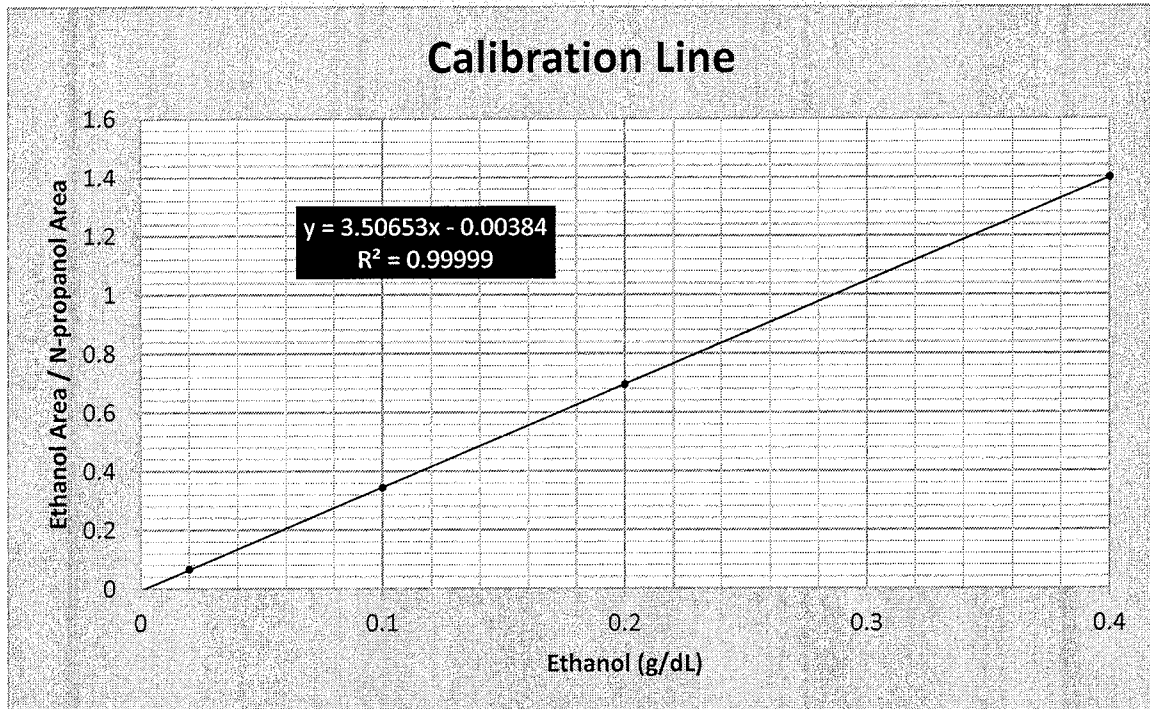
Run valid  Run invalid  Analyst Run valid  Run invalid  KOSECKI 7/20/16  
 Technical Reviewer

**SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY  
SEQUENCE QUALITY ASSURANCE SUMMARY**

SEQUENCE NAME: 20Jul16

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	0.202	1.00	0.002
5	20	0.080	0.079	1.25	-0.001
6	31	0.150	0.151	0.67	0.001
7	42	0.200	0.202	1.00	0.002
8	45	0.400	0.406	1.50	0.006
9	46	0.040	0.040	0.00	0.000
10	47	0.200	0.206	3.00	0.006
11	48	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	10.725	157.782	0.068
0.100	53.842	155.778	0.346
0.200	107.417	154.322	0.696
0.400	216.687	154.810	1.400



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.02 Cerilliant FN08101401	Item number:
Injection date: 7/20/2016 2:26:49 PM	Vial: 1
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\1\Data\20Jul16\1.D	

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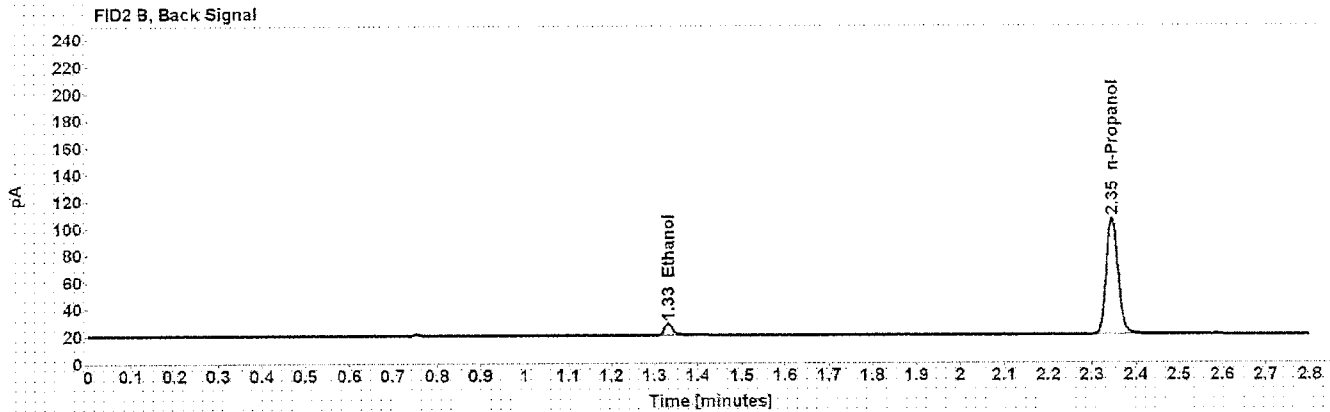
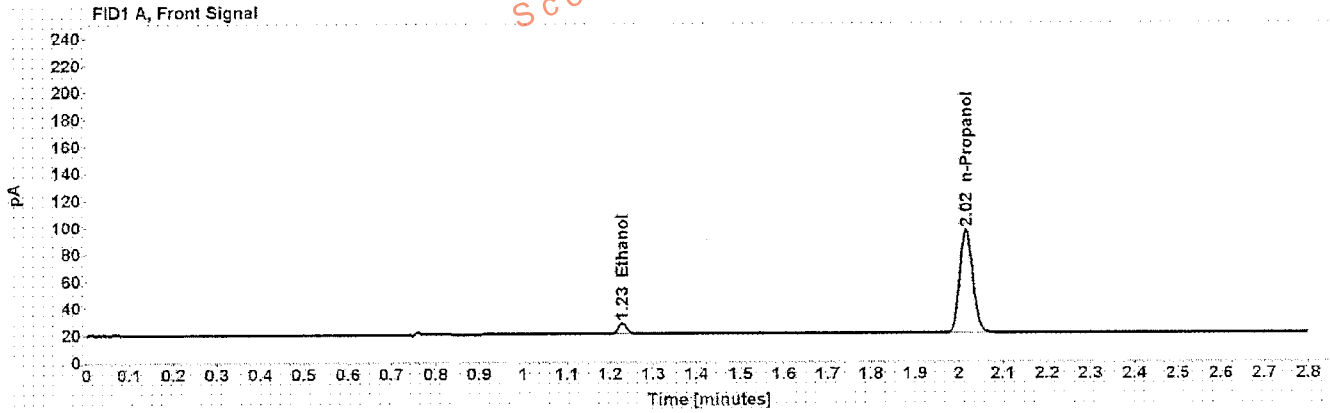


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.228	10.725
n-Propanol	2.017	157.782

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

Compound	Time (min)	Peak Area
Ethanol	1.331	10.760
n-Propanol	2.345	160.845

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.10 Cerilliant FN06181501	<b>Item number:</b>
<b>Injection date:</b> 7/20/2016 2:30:49 PM	<b>Vial:</b> 2
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan <i>LL</i>
<b>Data file:</b> C:\Chem3211\Data\20Jul16\2.D	

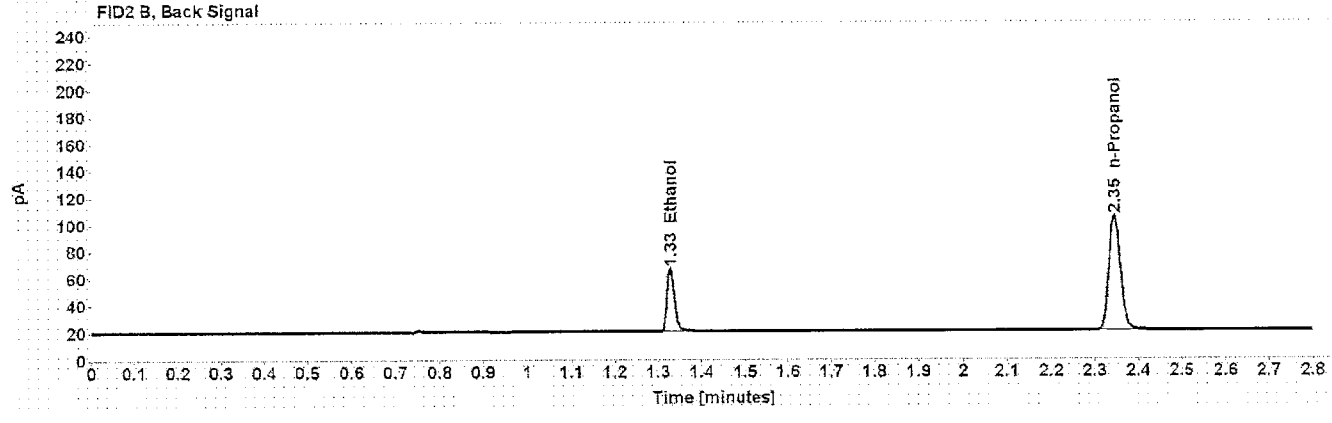
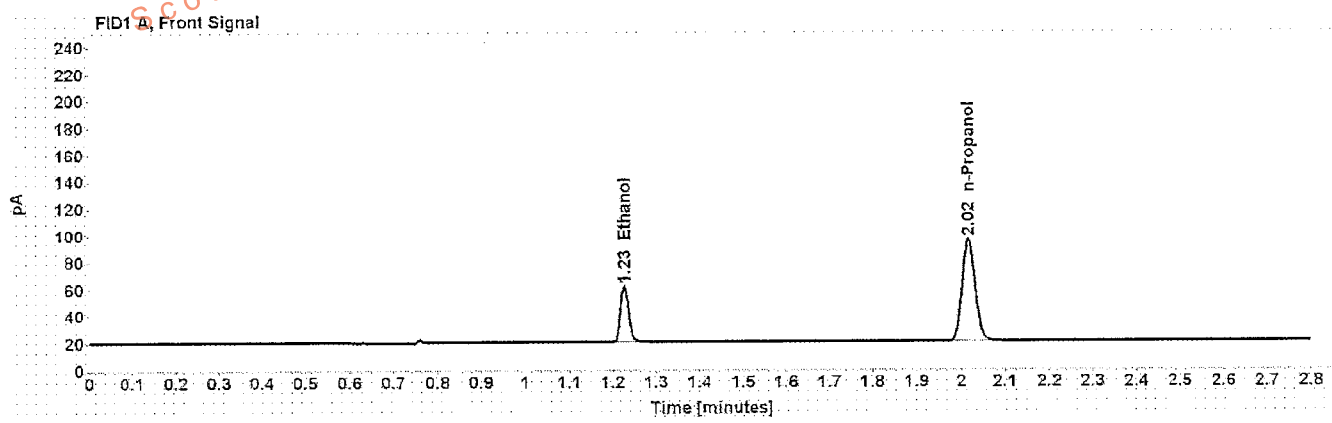


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.226	53.842
n-Propanol	2.017	155.778

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

Compound	Time (min)	Peak Area
Ethanol	1.328	54.382
n-Propanol	2.345	158.650

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 Cerilliant FN07201502	Item number:
Injection date: 7/20/2016 2:34:49 PM	Vial: 3
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem3211\Data\20Jul16\3.D	

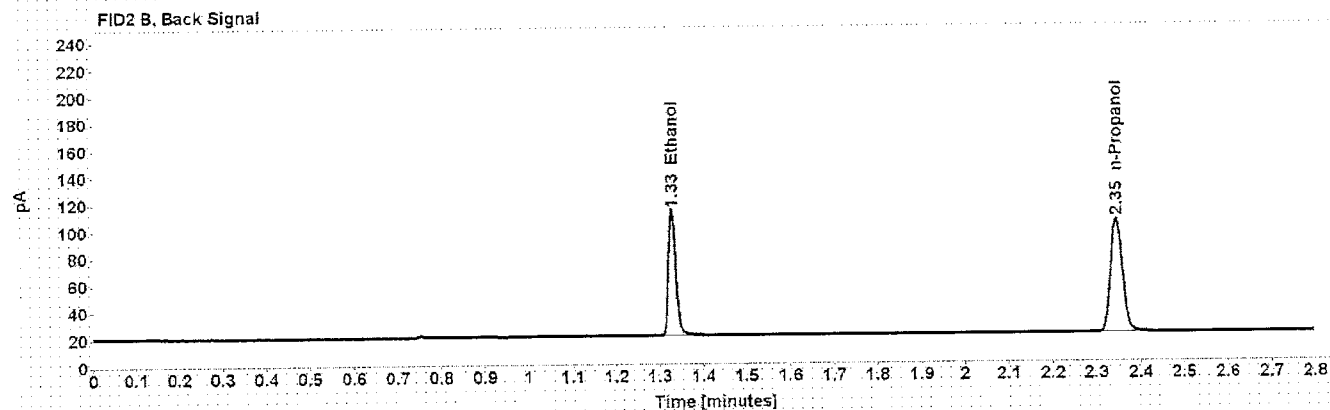
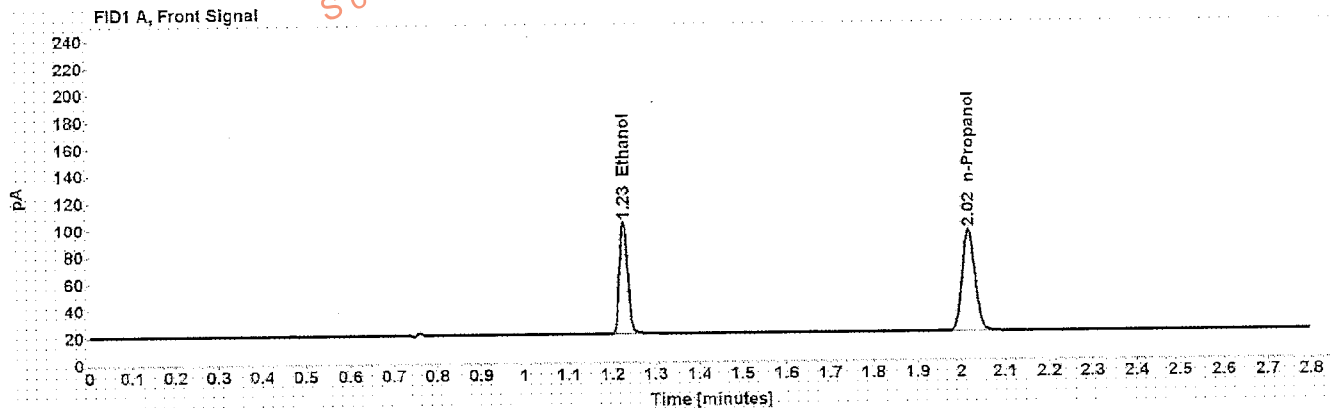


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.226	107.417
n-Propanol	2.017	154.322

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

Compound	Time (min)	Peak Area
Ethanol	1.327	108.965
n-Propanol	2.345	157.167

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Cerilliant FN11191402	Item number:
Injection date: 7/20/2016 2:38:49 PM	Vial: 4
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\1\Data\20Jul16\4.D	

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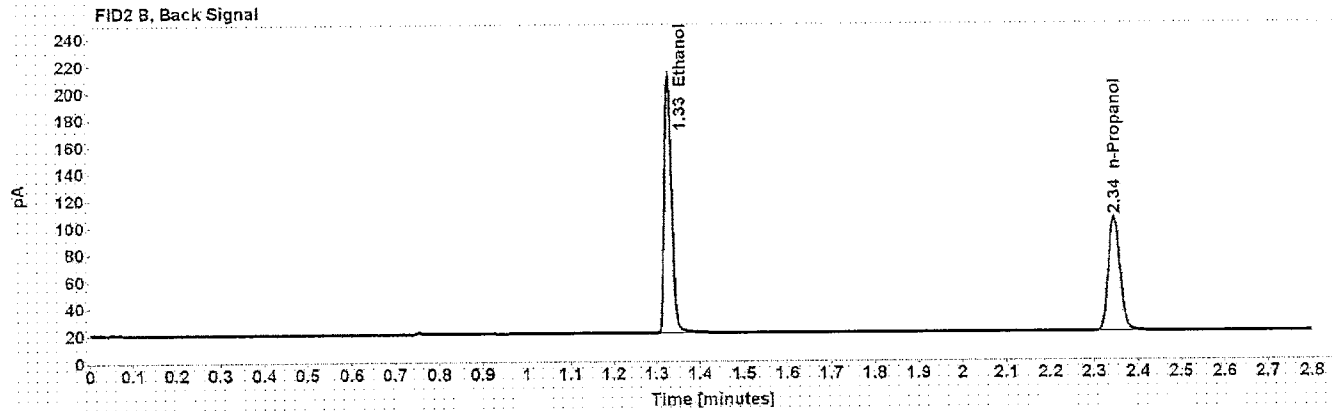
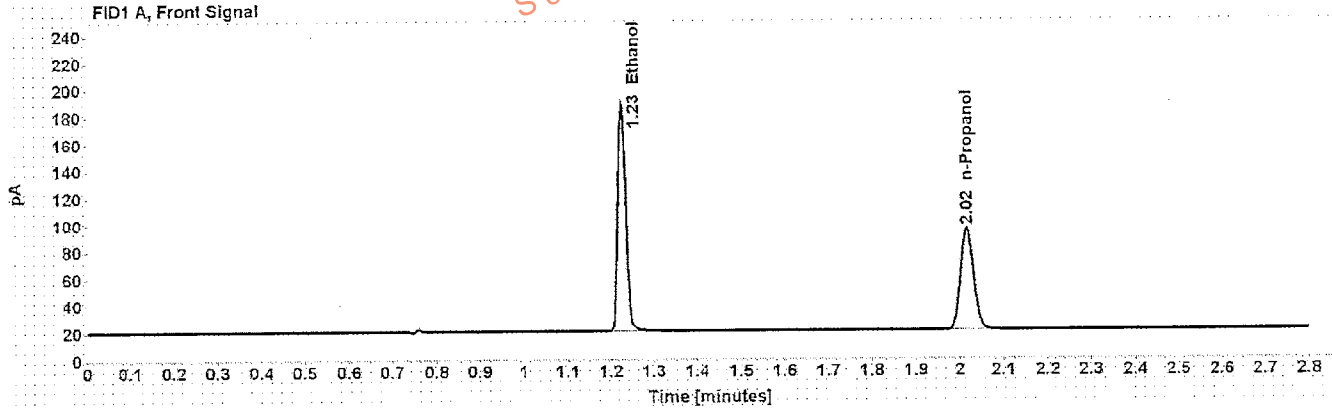


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.226	216.687
n-Propanol	2.017	154.810

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

Compound	Time (min)	Peak Area
Ethanol	1.327	221.818
n-Propanol	2.345	157.860

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number:
Injection date: 7/20/2016 2:42:49 PM	Vial: 5
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\11\Data\20Jul16\5.D	

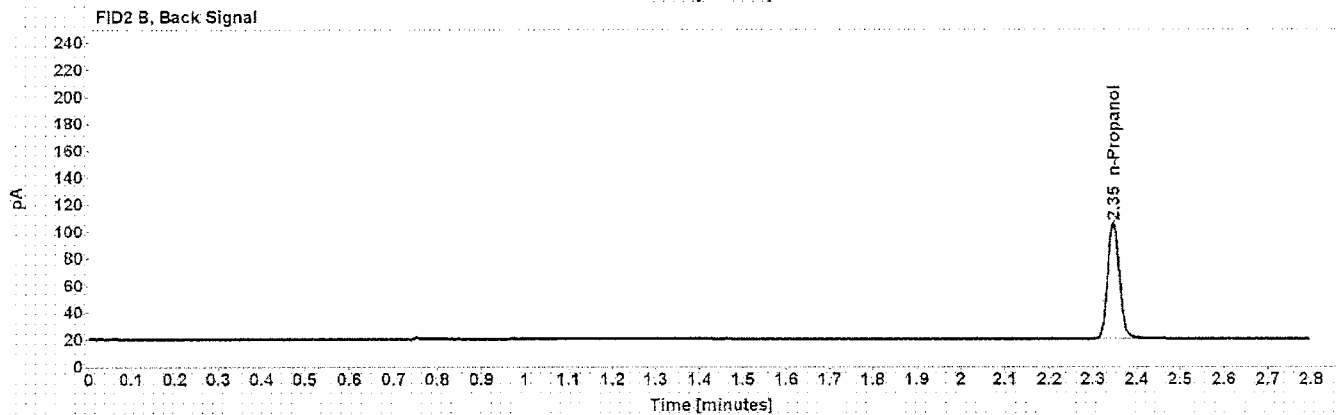
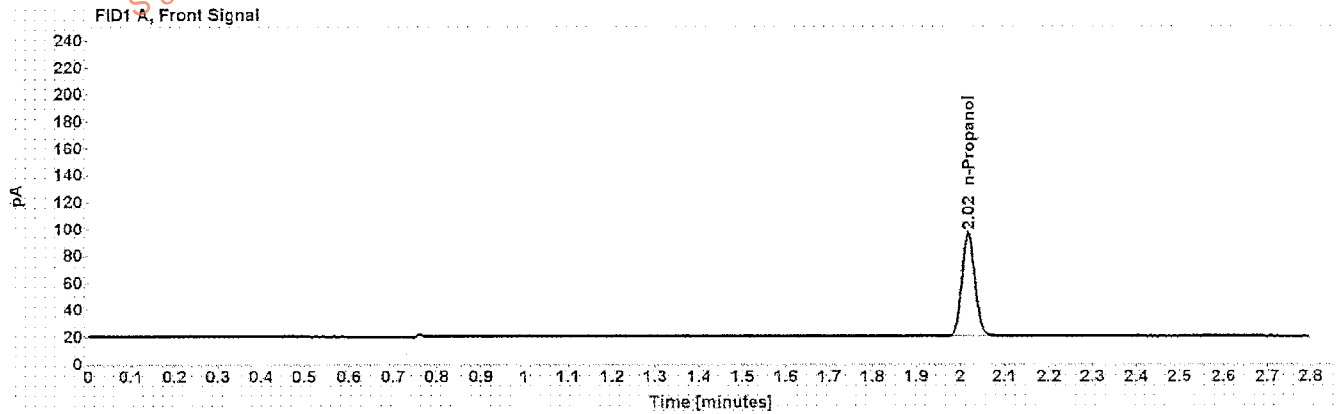


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	157.703

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

Compound	Time (min)	Peak Area
n-Propanol	2.346	160.823



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> volatiles mix 030916 ASL	<b>Item number:</b>
<b>Injection date:</b> 7/20/2016 2:46:49 PM	<b>Vial:</b> 6
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan <i>NR</i>
<b>Data file:</b> C:\Chem32\11Data\20Jul16\6.D	

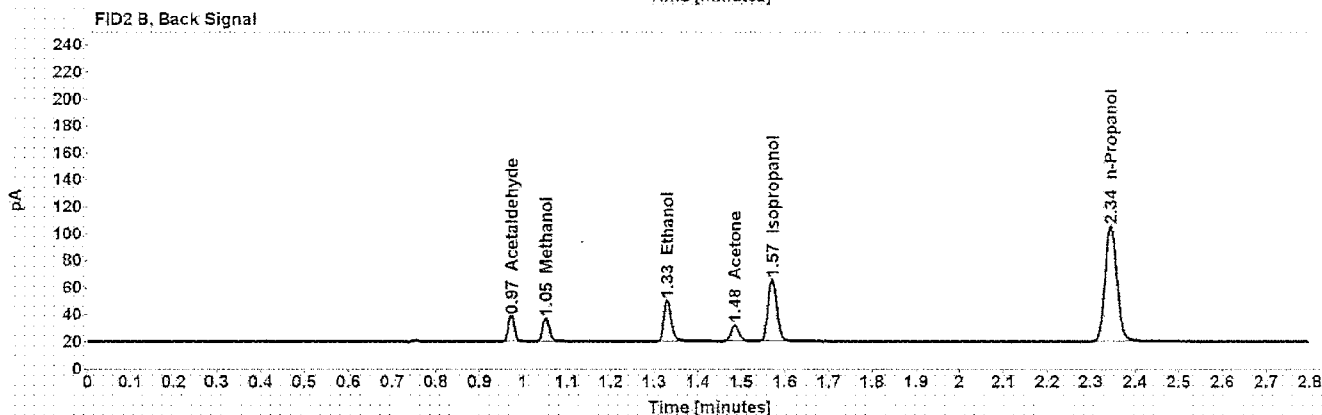
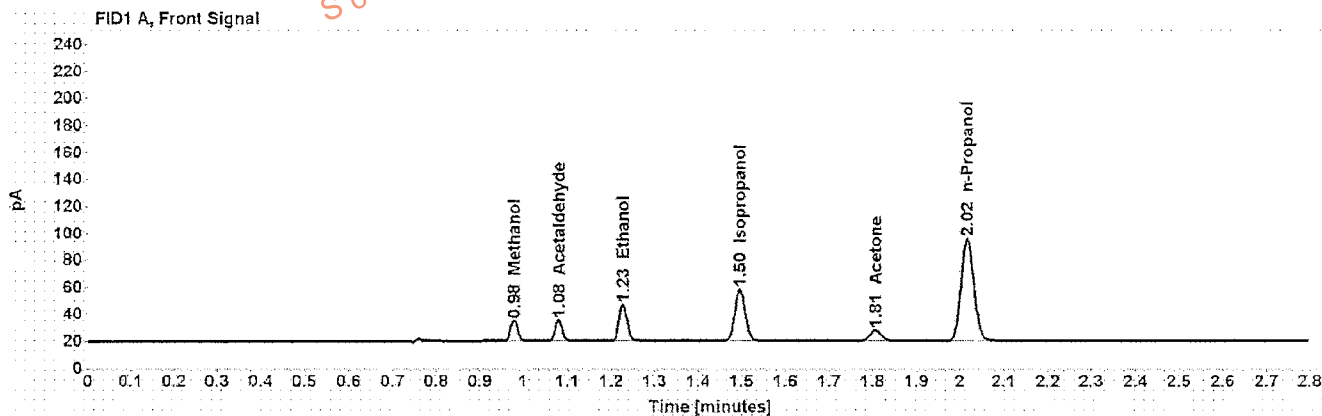


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.978	17.224
Acetaldehyde	-----	1.080	17.541
>Ethanol	0.0652	1.227	35.146
Isopropanol	-----	1.496	63.501
Acetone	-----	1.807	14.880
n-Propanol	-----	2.016	156.301

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	18.083
Methanol	1.052	17.328
Ethanol	1.329	35.640
Acetone	1.485	14.978
Isopropanol	1.571	64.510
n-Propanol	2.345	159.314



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number: 7
Injection date: 7/20/2016 2:51:04 PM	Vial: 7
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\1\Data\20Jul16\7.D	

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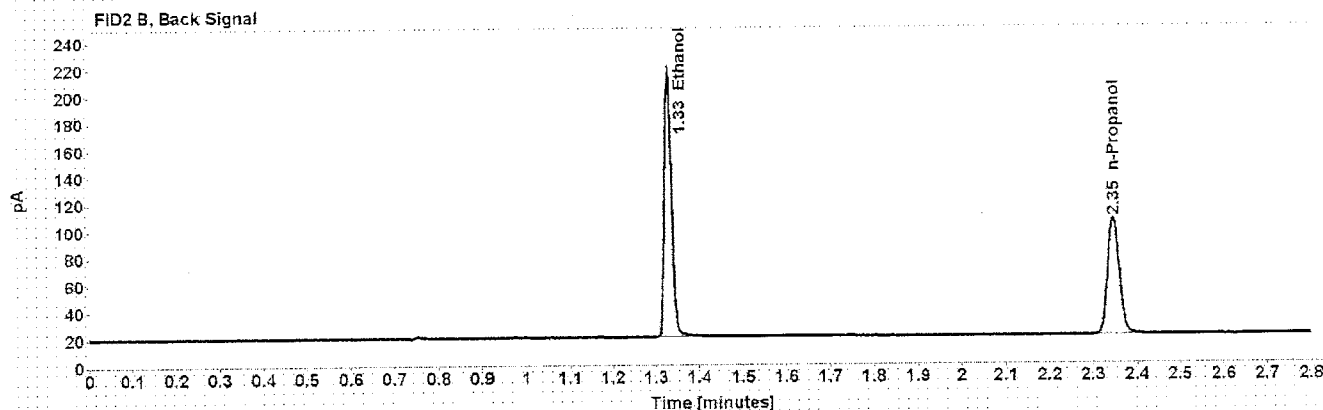
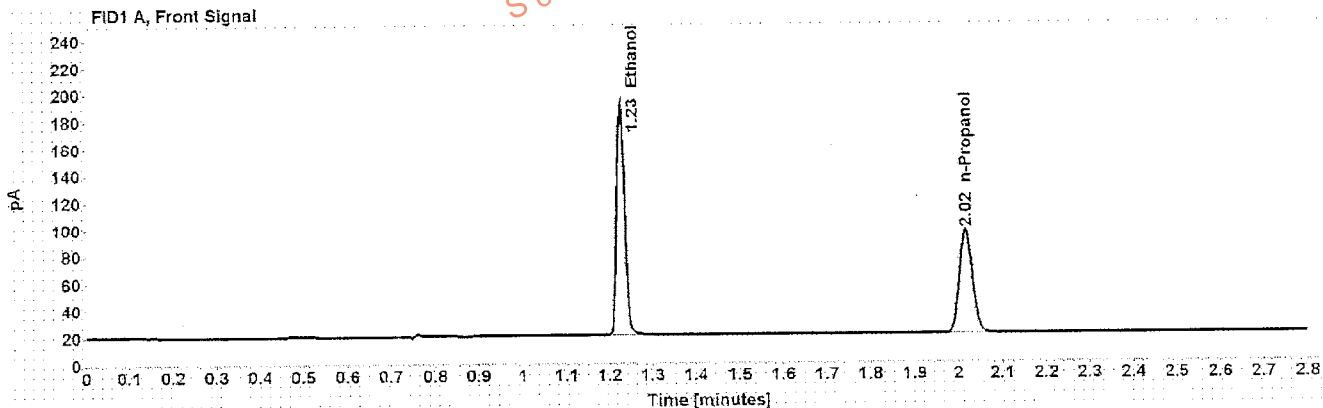


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4027	1.226	221.413
n-Propanol	-----	2.017	157.224

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

Compound	Time (min)	Peak Area
Ethanol	1.329	226.990
n-Propanol	2.346	160.367

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B	Item number:
Injection date: 7/20/2016 2:55:04 PM	Vial: 8
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\11\Data\20Jul16\8.D	

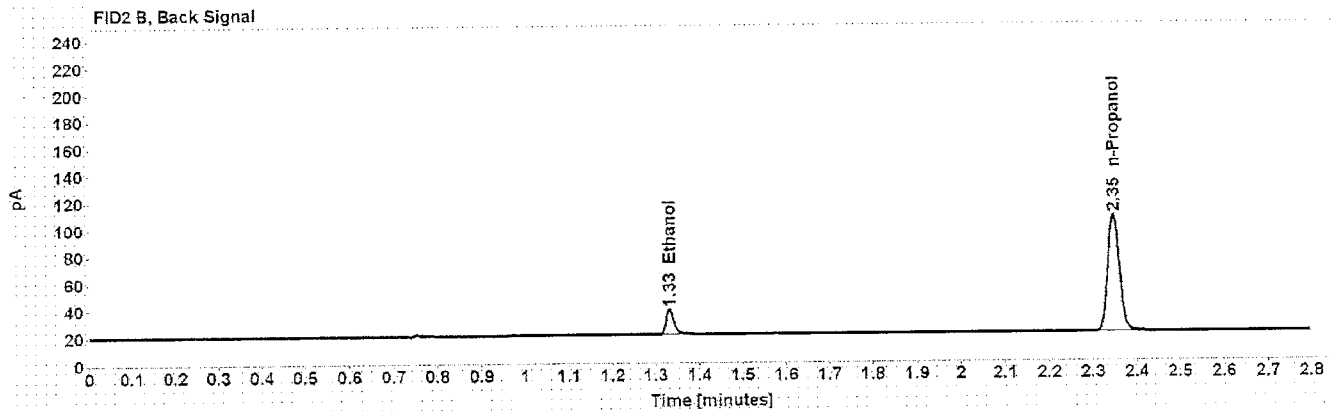
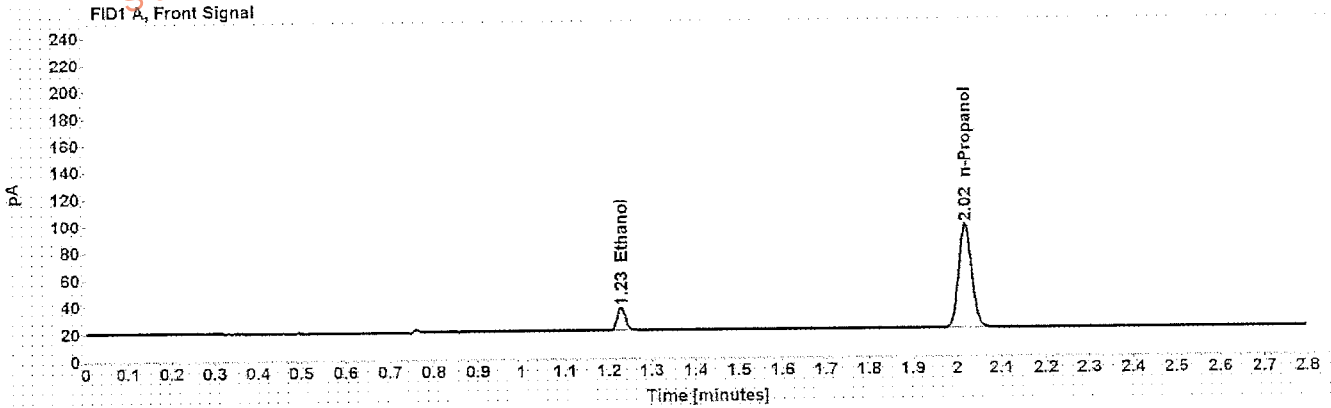


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0404	1.228	21.848
n-Propanol	-----	2.018	158.347

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

Compound	Time (min)	Peak Area
Ethanol	1.331	22.046
n-Propanol	2.346	161.223

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.20 ACQ 402101060/6	Item number:	
Injection date:	7/20/2016 2:59:04 PM	Vial:	9
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 GN14160045	Analyst:	Langan <i>ML</i>
Data file:	C:\Chem32\11Data\20Jul16\9.D		

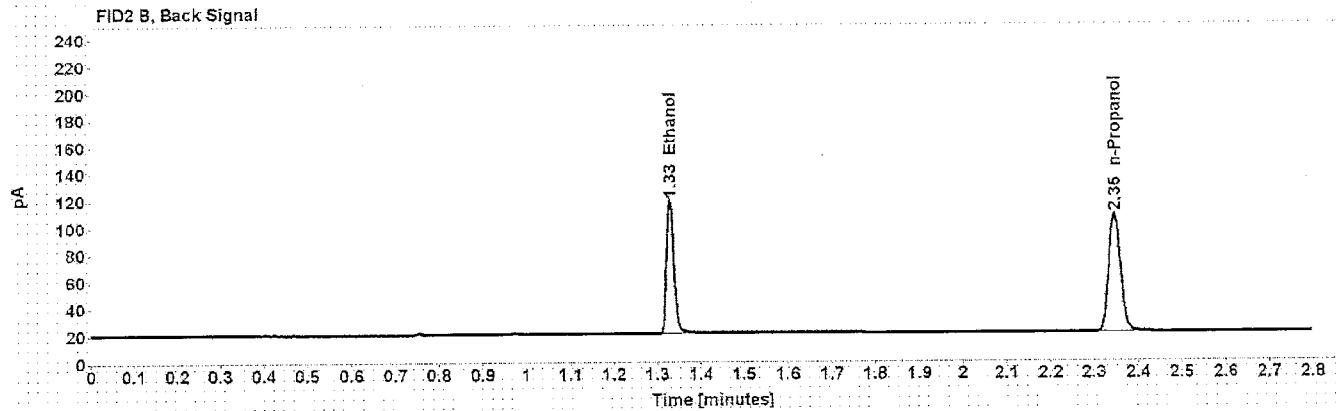
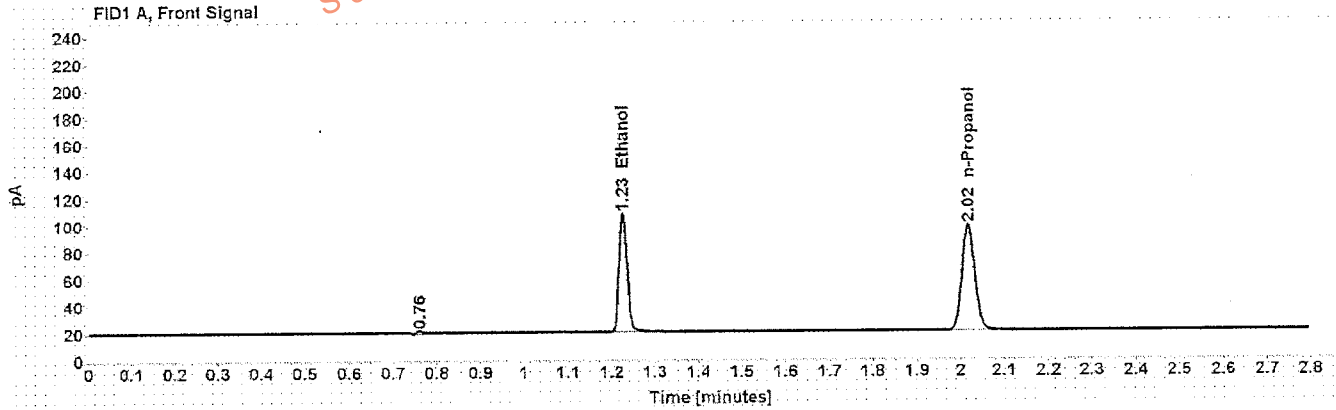


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2023	1.227	112.943
n-Propanol	-----	2.017	160.095

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

Compound	Time (min)	Peak Area
Ethanol	1.329	114.769
n-Propanol	2.346	163.521

# Scottsdale Police Department Crime Lab Volatiles Analysis

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Sample: 0.080 Lipomed 14112011-A	Item number: 20
Injection date: 7/20/2016 3:43:35 PM	Vial: 20
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\20Jul16\20.D	

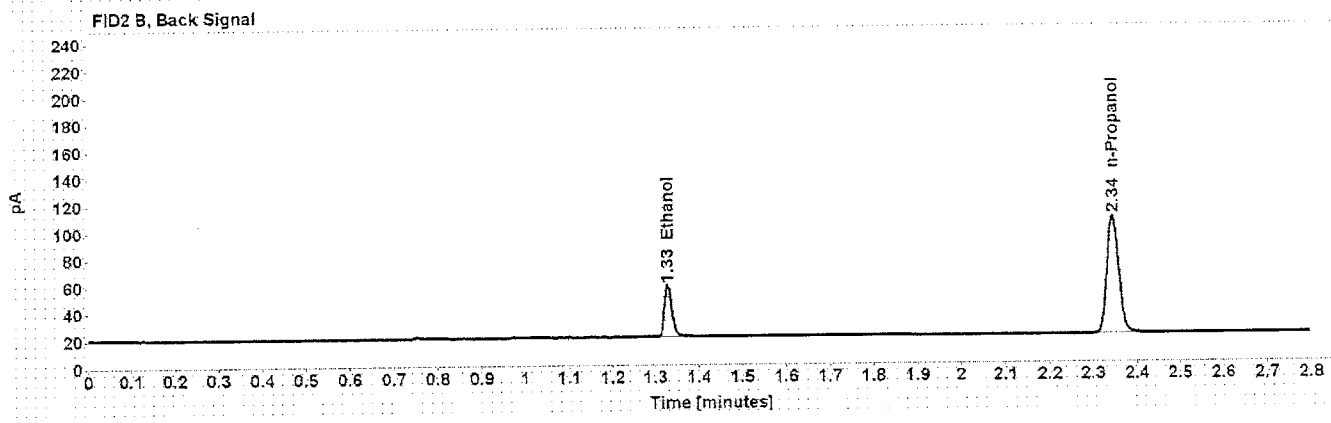
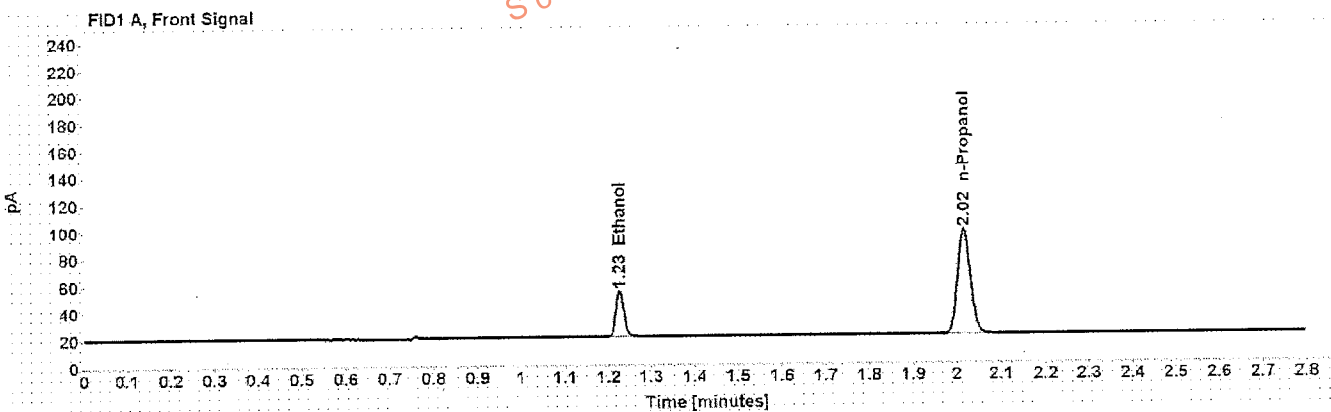


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0799	1.227	44.235
n-Propanol	-----	2.017	160.011

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

Compound	Time (min)	Peak Area
Ethanol	1.329	44.766
n-Propanol	2.345	162.604

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.150 Lipomed 11012012-C	Item number:
Injection date: 7/20/2016 4:28:04 PM	Vial: 31
Method: ethanol quant M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan N
Data file: C:\Chem32\1\Data\20Jul16\31.D	

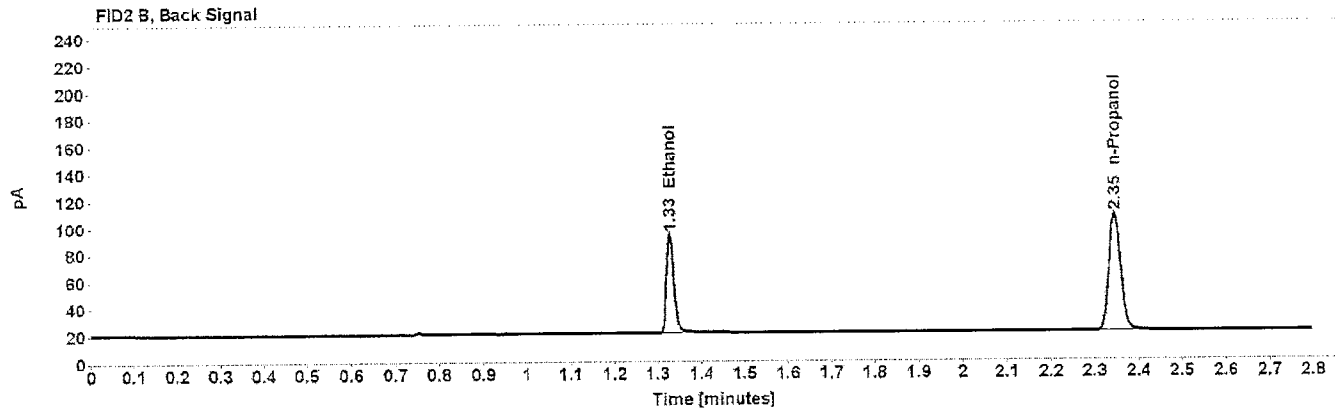
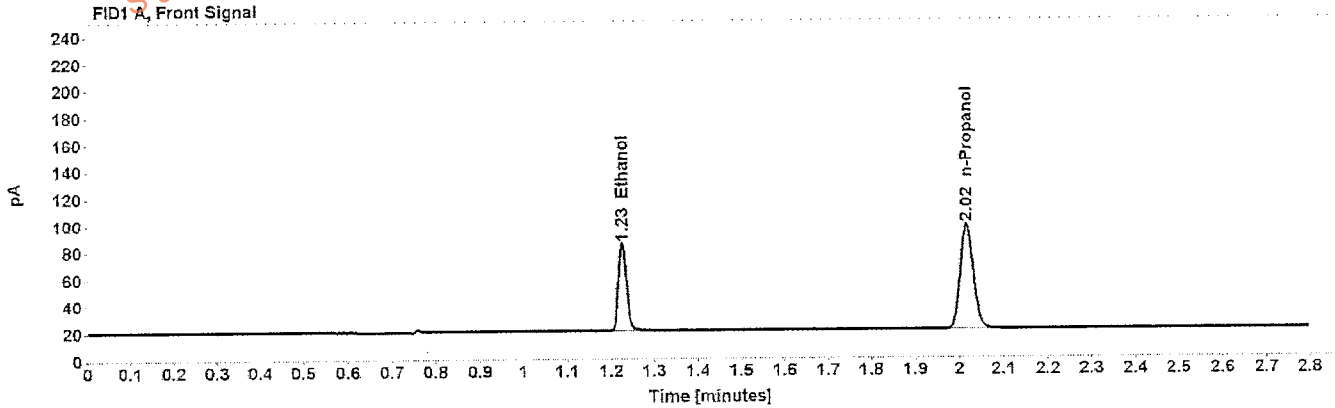


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1514	1.226	83.926
n-Propanol	-----	2.017	159.206

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

Compound	Time (min)	Peak Area
Ethanol	1.328	85.180
n-Propanol	2.345	162.207

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.20 ACQ 402101060/6	Item number:	
Injection date:	7/20/2016 5:12:19 PM	Vial:	42
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan <i>ML</i>
Data file:	C:\Chem3211\Data\20Jul16\42.D		

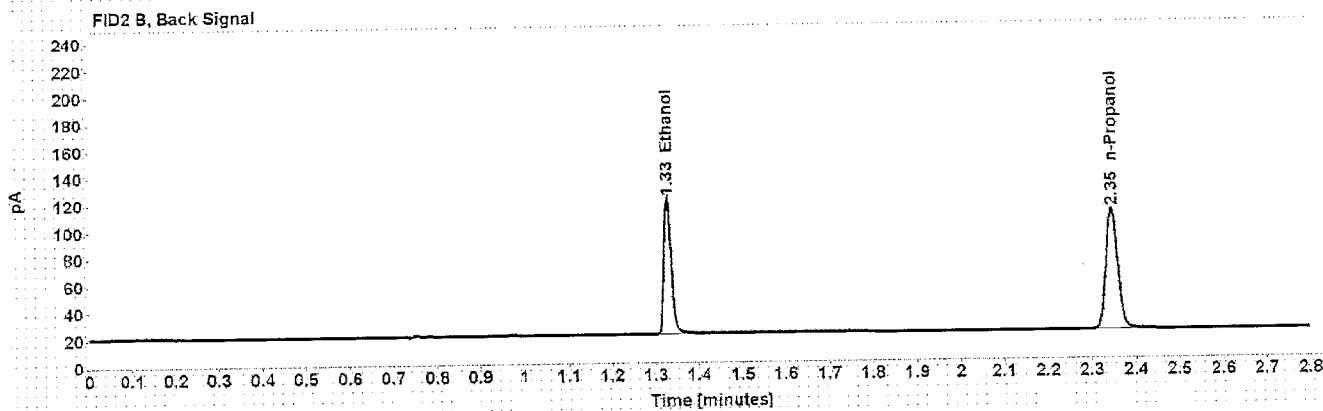
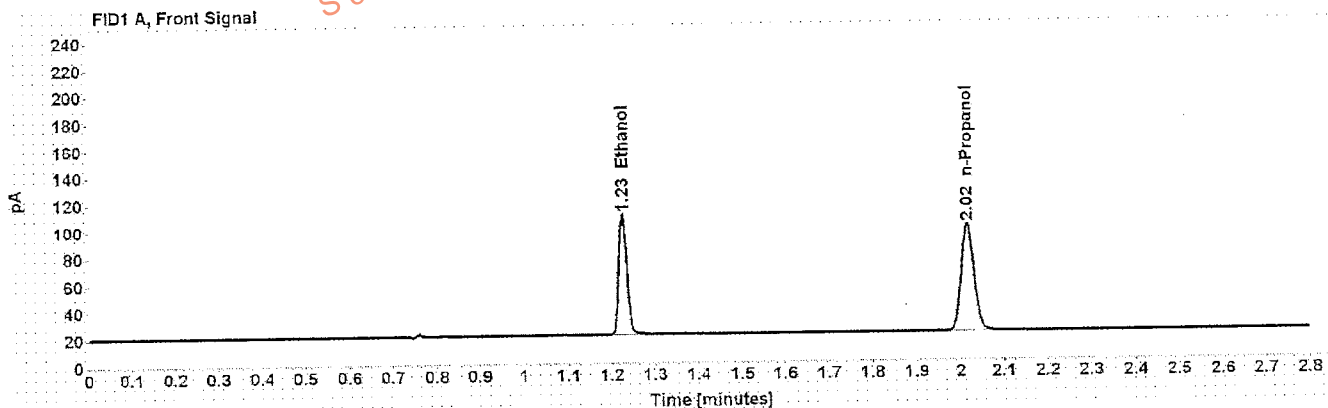


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2025	1.226	115.465
n-Propanol	-----	2.017	163.457

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

Compound	Time (min)	Peak Area
Ethanol	1.328	117.446
n-Propanol	2.346	166.583

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.40 Lipomed 05012012-C	<b>Item number:</b>
<b>Injection date:</b> 7/20/2016 5:24:34 PM	<b>Vial:</b> 45
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan <i>jr</i>
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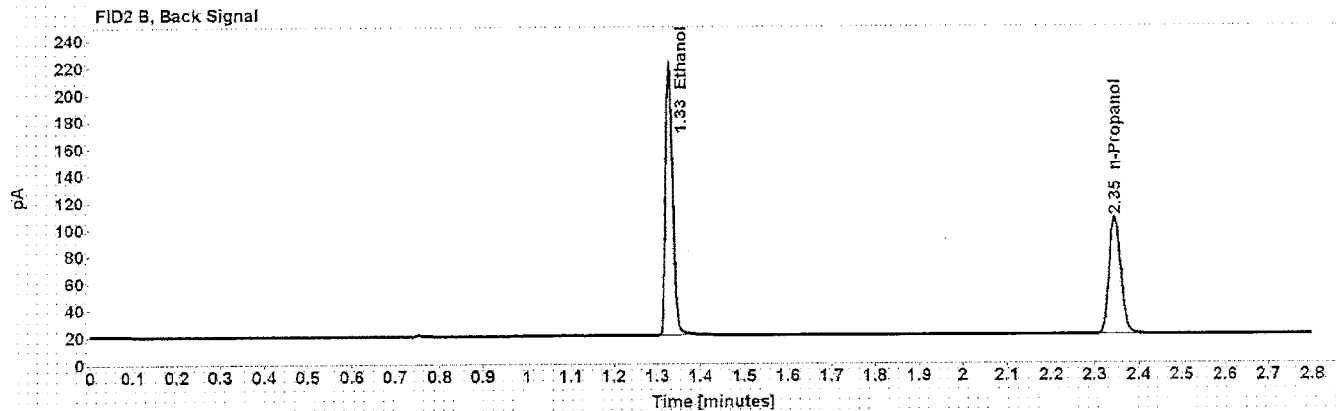
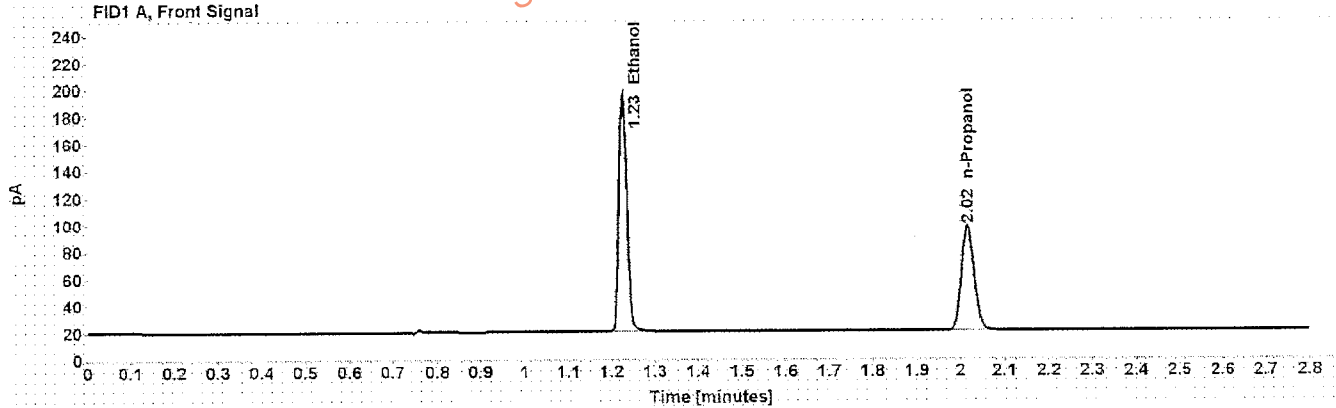


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4063	1.226	225.835
n-Propanol	-----	2.017	158.953

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

Compound	Time (min)	Peak Area
Ethanol	1.329	230.176
n-Propanol	2.346	161.737



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B	Item number:
Injection date: 7/20/2016 5:28:35 PM	Vial: 46
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\20Jul16\46.D	

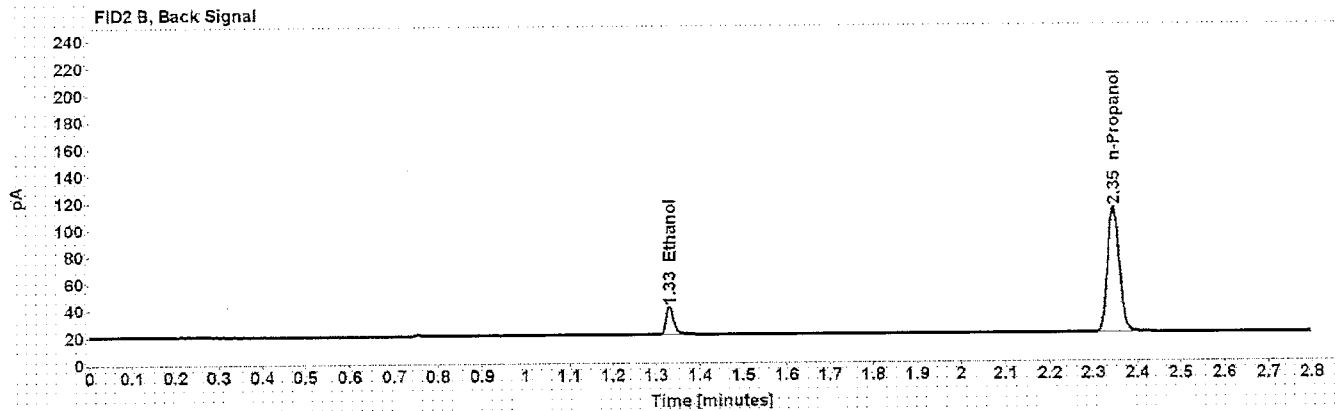
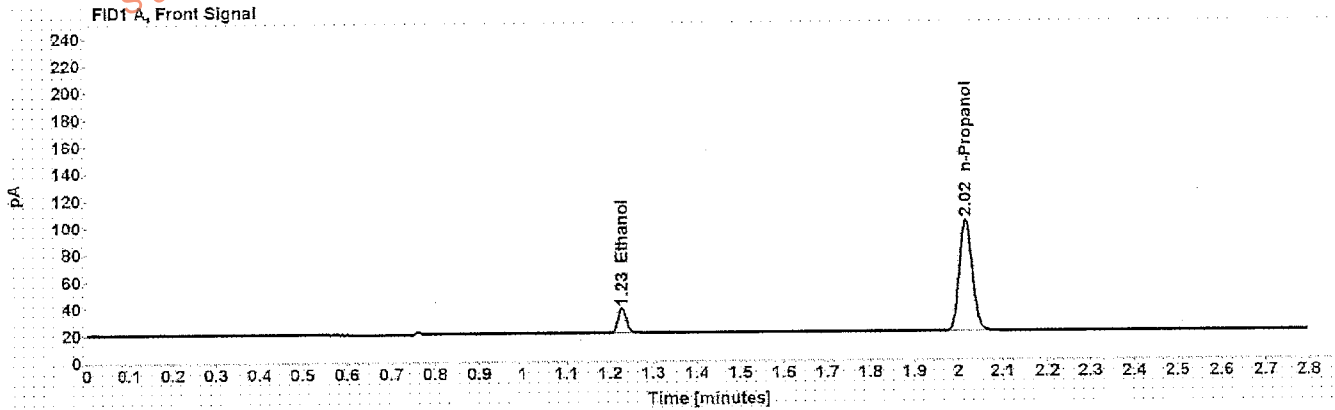


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0409	1.228	23.720
n-Propanol	-----	2.017	169.733

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

Compound	Time (min)	Peak Area
Ethanol	1.330	23.878
n-Propanol	2.346	173.170

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	0.20 ACQ 402101060/6	<b>Item number:</b>	
<b>Injection date:</b>	7/20/2016 5:32:34 PM	<b>Vial:</b>	47
<b>Method:</b>	ethanol quant M	<b>Sequence:</b>	20Jul16
<b>Instrument:</b>	US14173023 CN14160045	<b>Analyst:</b>	Langan <i>LL</i>
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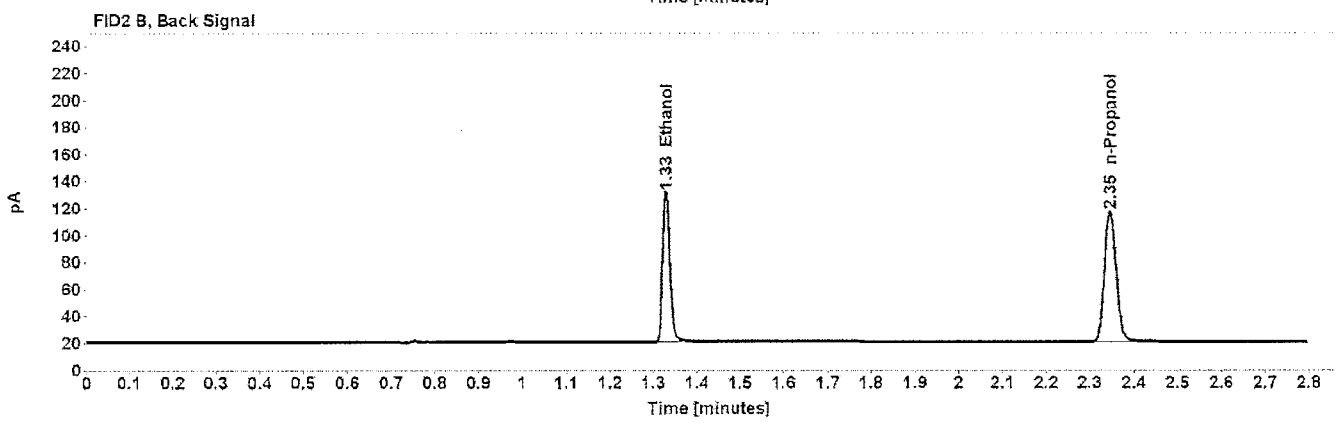
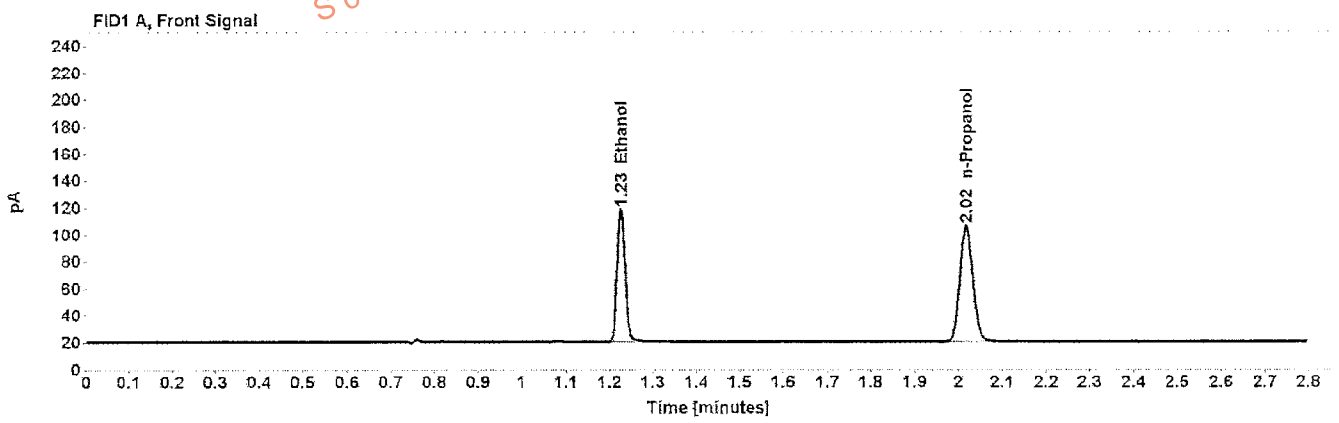


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2065	1.227	127.220
n-Propanol	-----	2.017	176.648

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

Compound	Time (min)	Peak Area
Ethanol	1.329	129.420
n-Propanol	2.346	179.920

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number: 48
Injection date: 7/20/2016 5:36:34 PM	Vial: 48
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan <i>jl</i>
Data file: C:\Chem32\1\Data\20Jul16\48.D	

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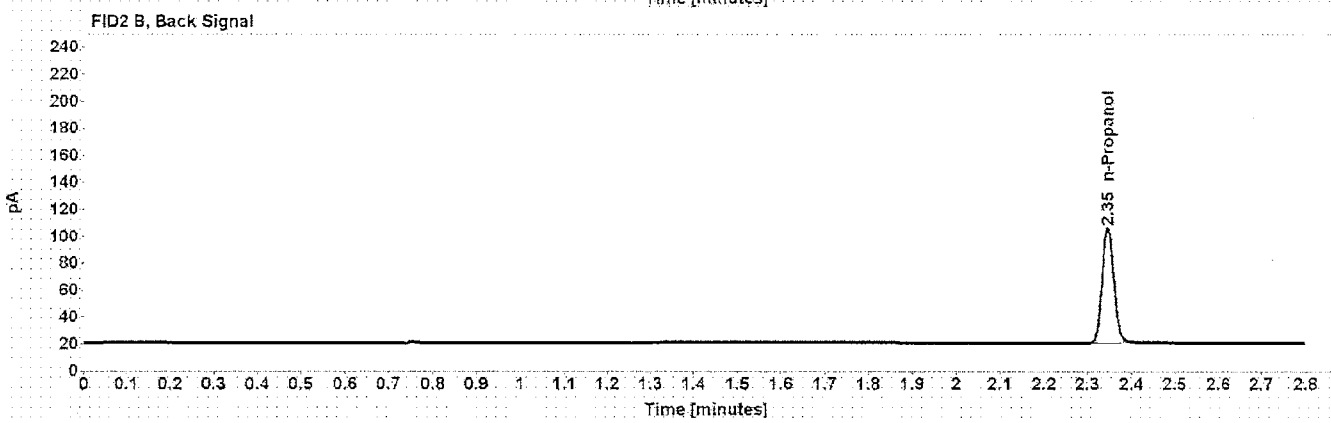
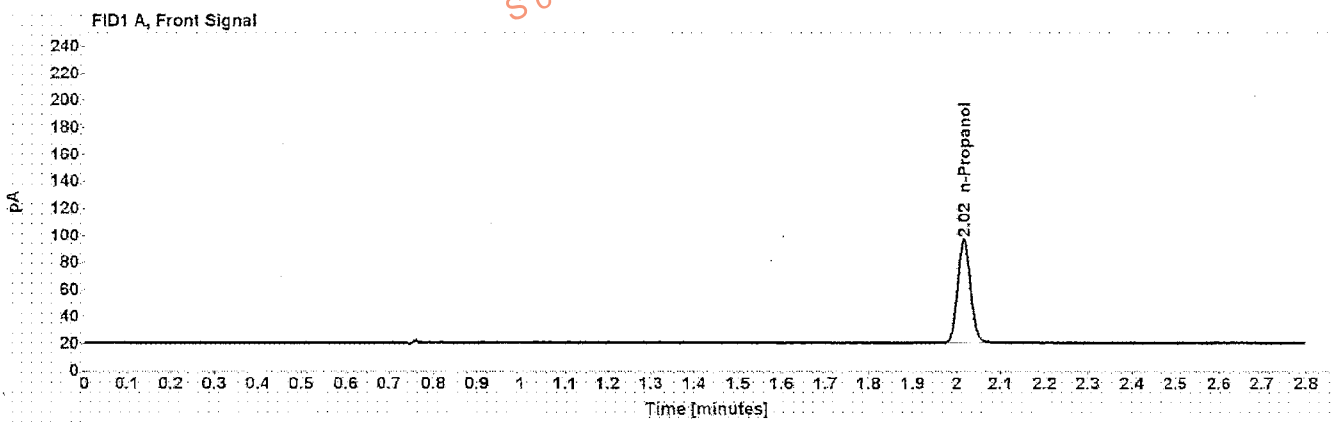


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	157.729

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

Compound	Time (min)	Peak Area
n-Propanol	2.346	160.352

# Sequence Summary

Sequence name: 20Jul16 Instrument: US1473023 CN14160045 Analyst: Langan

Vial	Sample	Type	Item Number	Method
1	0.02 Cerilliant FN08101401	Calibration		ethanol quant.M
2	0.10 Cerilliant FN06181501	Calibration		ethanol quant.M
3	0.20 Cerilliant FN07201502	Calibration		ethanol quant.M
4	0.40 Cerilliant FN11191402	Calibration		ethanol quant.M
5	blank 110215	Control		ethanol quant.M
6	volatiles mix 030916 ASL	Control		ethanol quant.M
7	0.40 Lipomed 05012012-C	Control		ethanol quant.M
8	0.04 Lipomed 30112011-B	Control		ethanol quant.M
9	0.20 ACQ 402101060/6	Control		ethanol quant.M
10		Sample	1051964	ethanol quant.M
11		Sample	1051964	ethanol quant.M
12		Sample	1055308	ethanol quant.M
13		Sample	1055308	ethanol quant.M
14		Sample	1097587	ethanol quant.M
15		Sample	1097587	ethanol quant.M
16		Sample	1052253	ethanol quant.M
17		Sample	1052253	ethanol quant.M
18		Sample	1052775	ethanol quant.M
19		Sample	1052775	ethanol quant.M
20	0.080 Lipomed 14112011-A	Control		ethanol quant.M
21		Sample	1053131	ethanol quant.M
22		Sample	1053131	ethanol quant.M
23		Sample	1054208	ethanol quant.M
24		Sample	1054208	ethanol quant.M
25		Sample	1054481	ethanol quant.M
26		Sample	1054481	ethanol quant.M
27		Sample	1054800	ethanol quant.M
28		Sample	1054800	ethanol quant.M
29		Sample	1054819	ethanol quant.M
30		Sample	1054819	ethanol quant.M
31	0.150 Lipomed 11012012-C	Control		ethanol quant.M
32		Sample	1054983	ethanol quant.M
33		Sample	1054983	ethanol quant.M
34		Sample	1055095	ethanol quant.M
35		Sample	1055095	ethanol quant.M
36		Sample	1055099	ethanol quant.M
37		Sample	1055099	ethanol quant.M
38		Sample	1055923	ethanol quant.M
39		Sample	1055923	ethanol quant.M
40		Sample	1091845	ethanol quant.M
41		Sample	1091845	ethanol quant.M
42	0.20 ACQ 402101060/6	Control		ethanol quant.M
43		Sample	1095316	ethanol quant.M
44		Sample	1095316	ethanol quant.M
45	0.40 Lipomed 05012012-C	Control		ethanol quant.M
46	0.04 Lipomed 30112011-B	Control		ethanol quant.M
47	0.20 ACQ 402101060/6	Control		ethanol quant.M

# Sequence Summary

48	blank 110215	Control	ethanol quant.M
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## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> ██████████	<b>Item number:</b> 1051964
<b>Injection date:</b> 7/20/2016 3:03:04 PM	<b>Vial:</b> 10
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14473023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem32\1\Data\20Jul16\10.D	

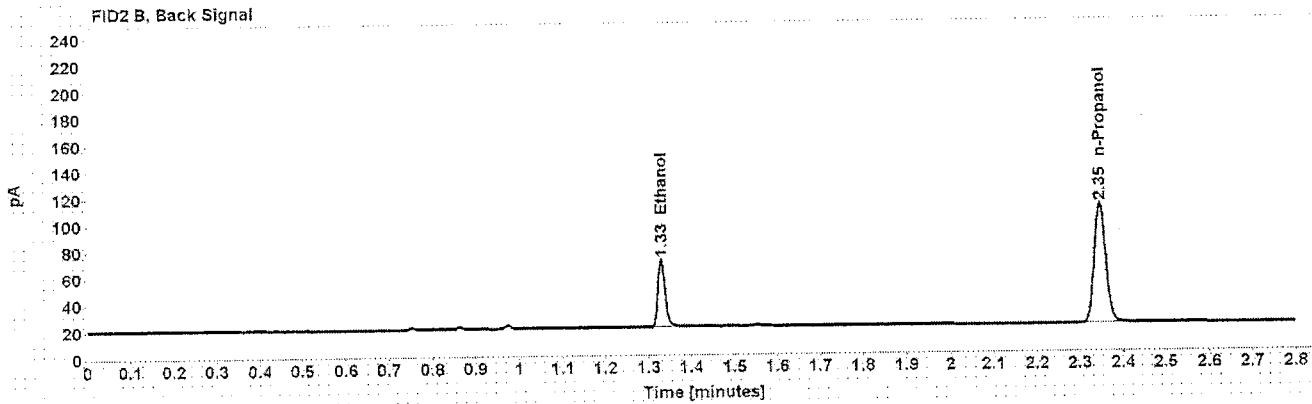
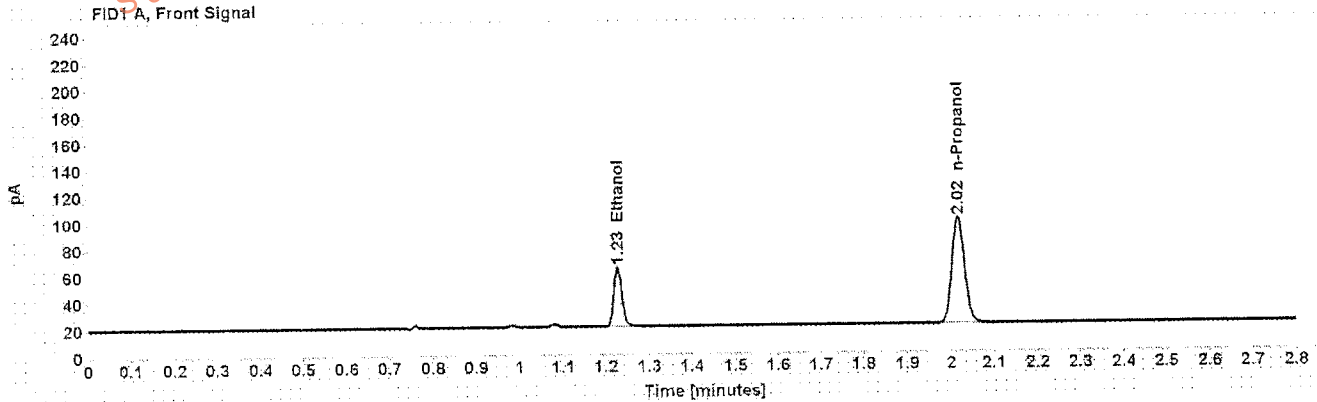


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1025	1.227	57.824
n-Propanol	-----	2.018	162.569

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

Compound	Time (min)	Peak Area
Ethanol	1.330	58.714
n-Propanol	2.347	166.148



## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1051964
Injection date:	7/20/2016 3:07:04 PM	Vial:	11
Method:	ethanol quant M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\20Jul16\11.D		

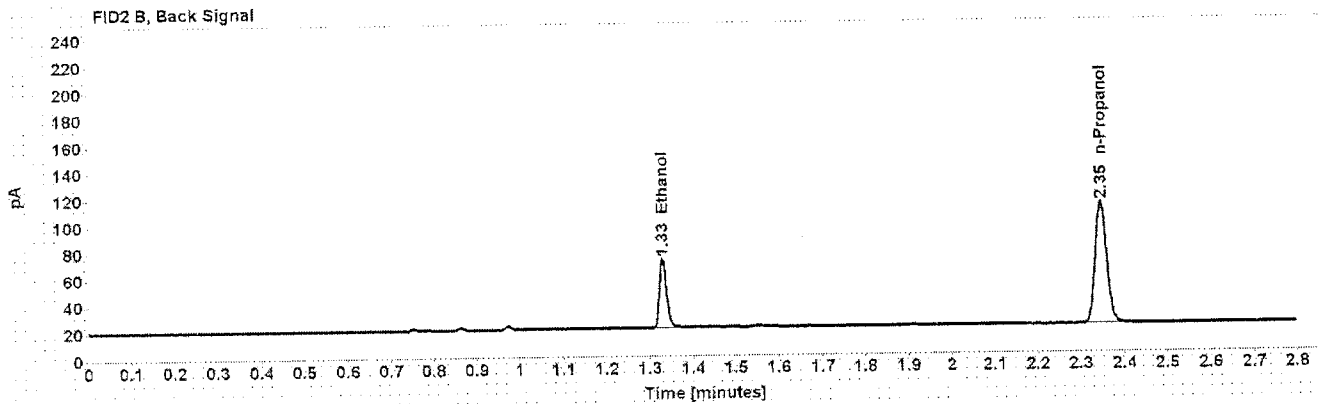
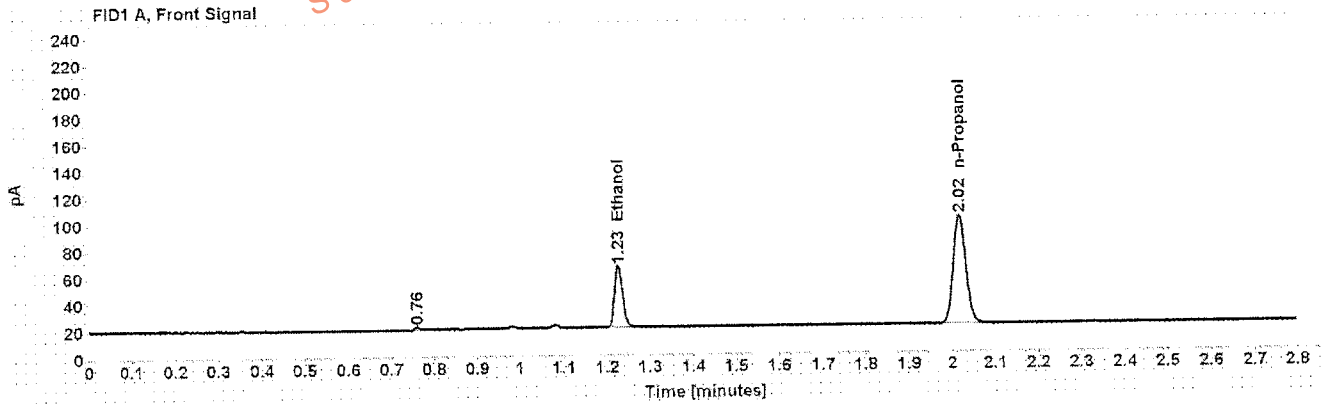


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1034	1.227	59.651
n-Propanol	-----	2.018	166.265

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

Compound	Time (min)	Peak Area
Ethanol	1.330	60.651
n-Propanol	2.347	170.026

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1055308  
 Injection date: 7/20/2016 3:11:04 PM Vial: 12  
 Method: ethanol quant.M Sequence: 20Jul16  
 Instrument: US14173023 CN14160045 Analyst: Langan  
 Data file: C:\Chem32\1\Data\20Jul16\12.D

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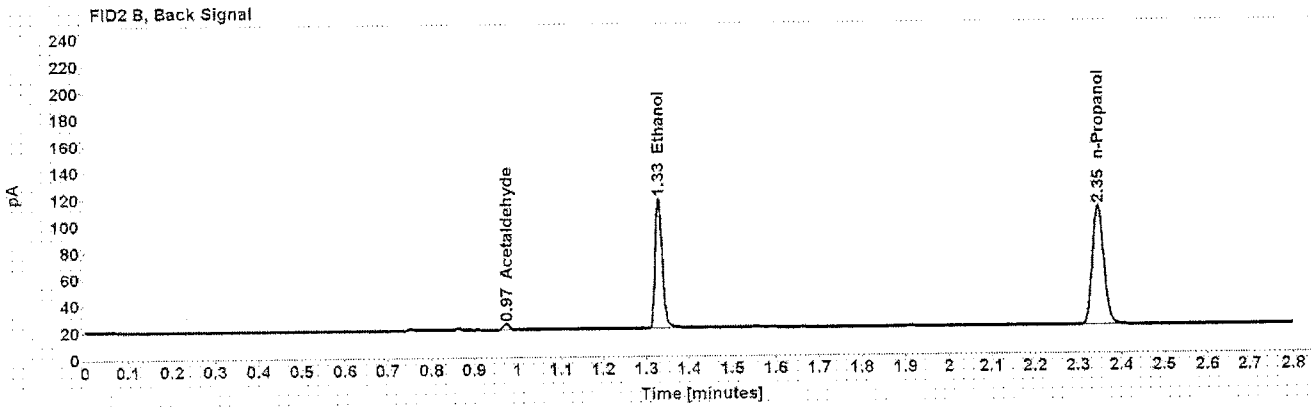
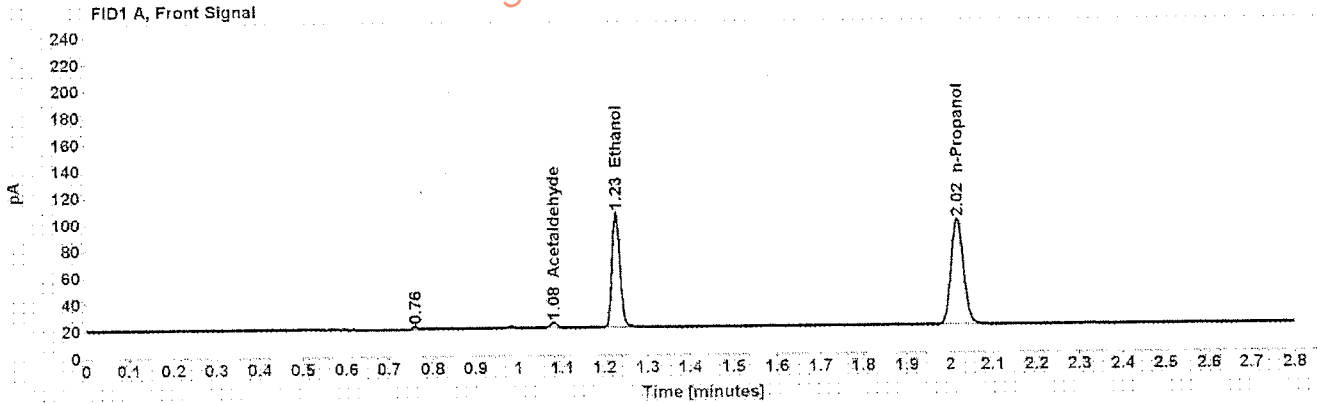


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.224
>Ethanol	0.1976	1.227	111.609
n-Propanol	-----	2.017	162.004

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.409
Ethanol	1.329	113.430
n-Propanol	2.346	165.742

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1055308
Injection date: 7/20/2016 3:15:19 PM	Vial: 13
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\20Jul16\13.D	

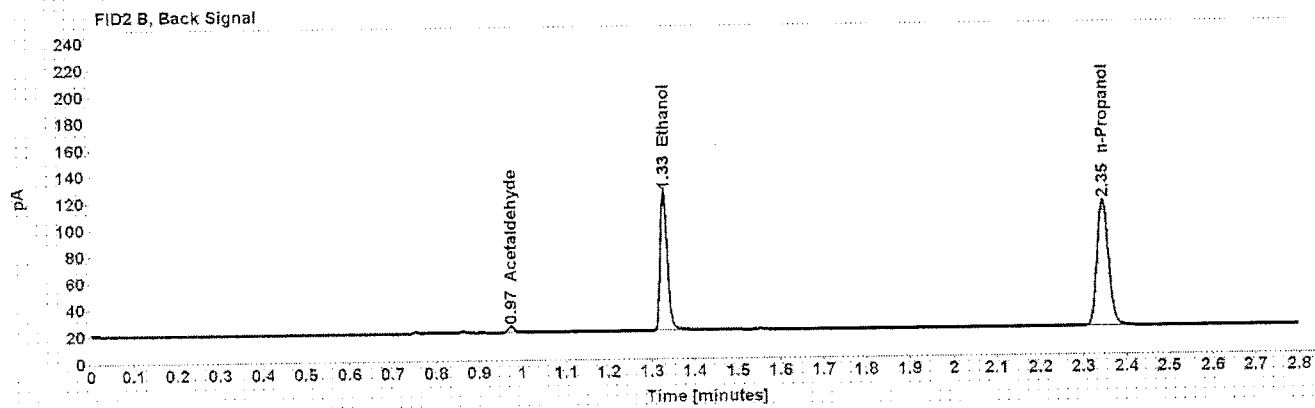
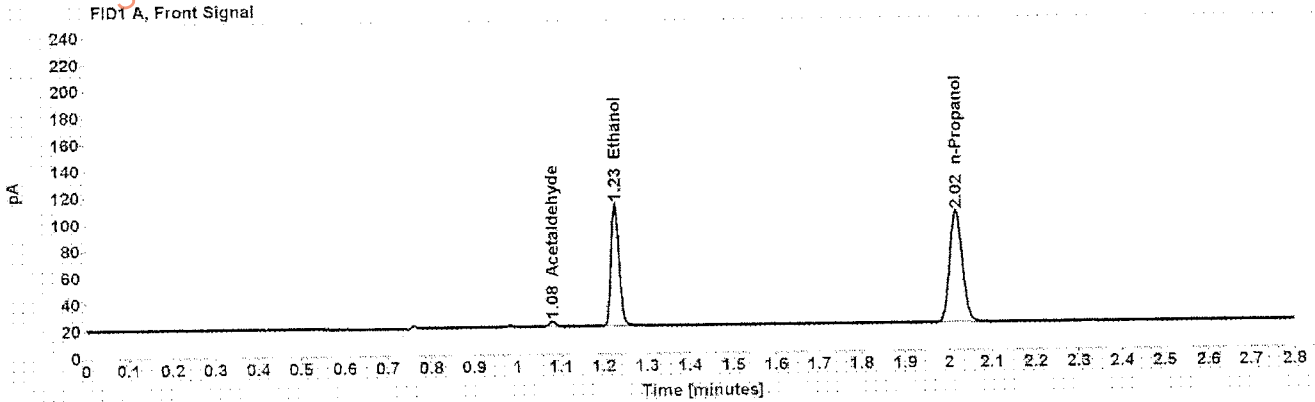


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.210
>Ethanol	0.1983	1.226	118.512
n-Propanol	-----	2.017	171.353

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.437
Ethanol	1.328	120.572
n-Propanol	2.346	175.180

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1097587
Injection date:	7/20/2016 3:19:19 PM	Vial:	14
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\20Jul16\14.D		

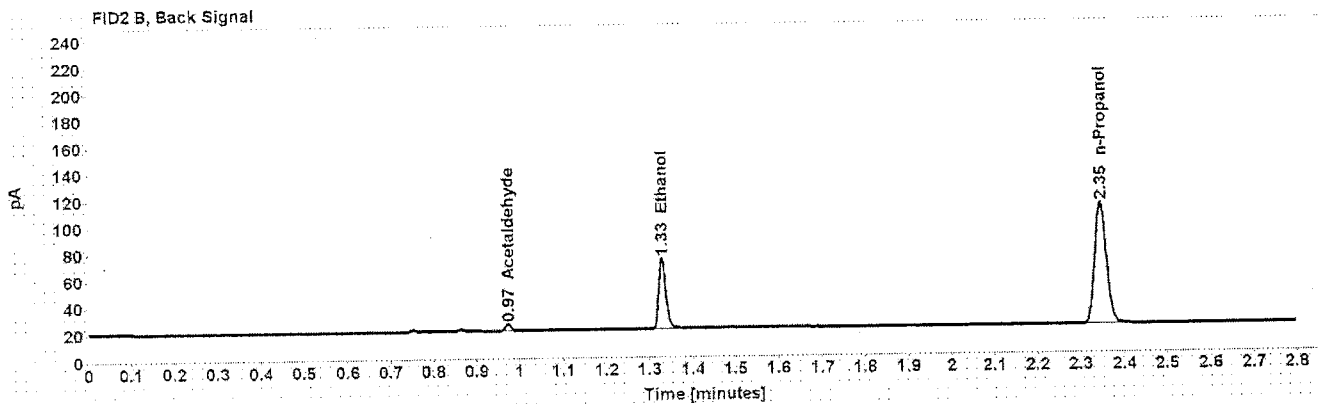
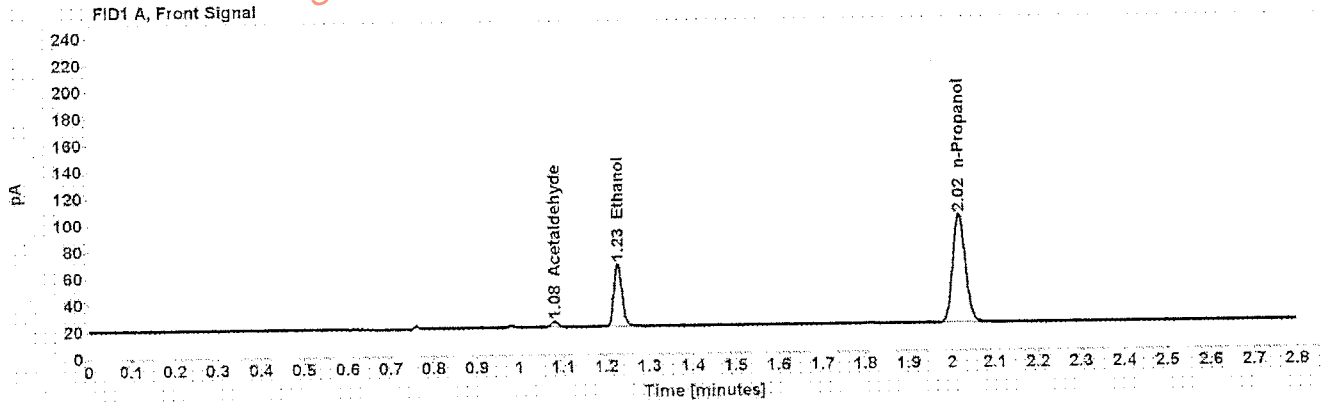


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.426
>Ethanol	0.1053	1.227	60.709
n-Propanol	-----	2.017	166.133

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.613
Ethanol	1.329	62.384
n-Propanol	2.346	169.492

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: <span style="background-color: black; color: black;">XXXXXXXXXX</span>	Item number: 1097587
Injection date: 7/20/2016 3:23:19 PM	Vial: 15
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\20Jul16\15.D	

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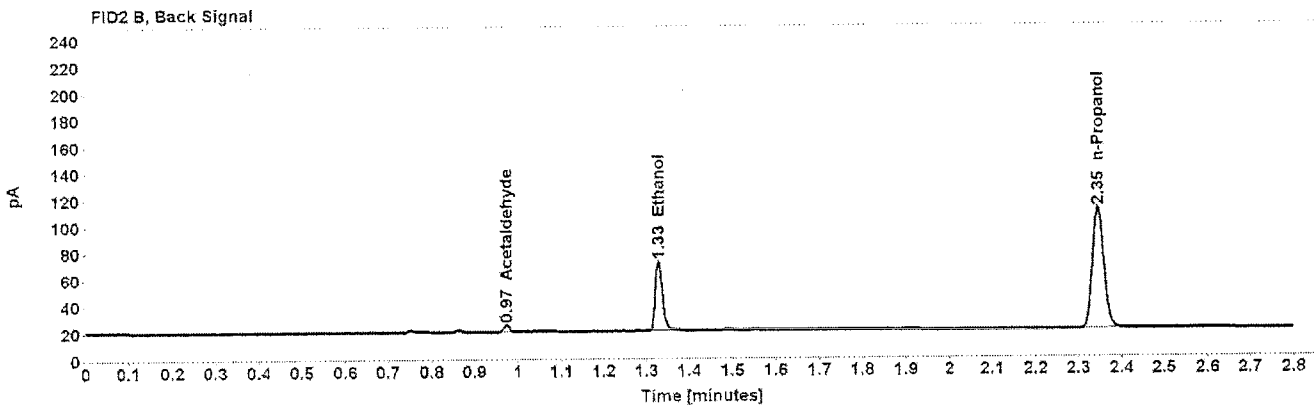
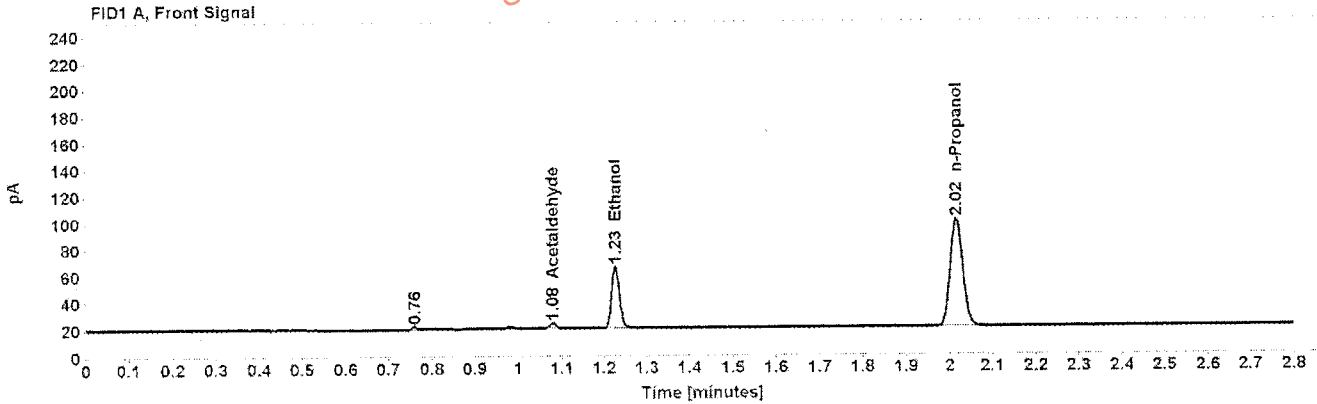


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.429
>Ethanol	0.1044	1.227	59.954
n-Propanol	-----	2.017	165.543

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.614
Ethanol	1.329	60.695
n-Propanol	2.345	168.671

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1052253
Injection date: 7/20/2016 3:27:20 PM	Vial: 16
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\20Jul16\16.D	

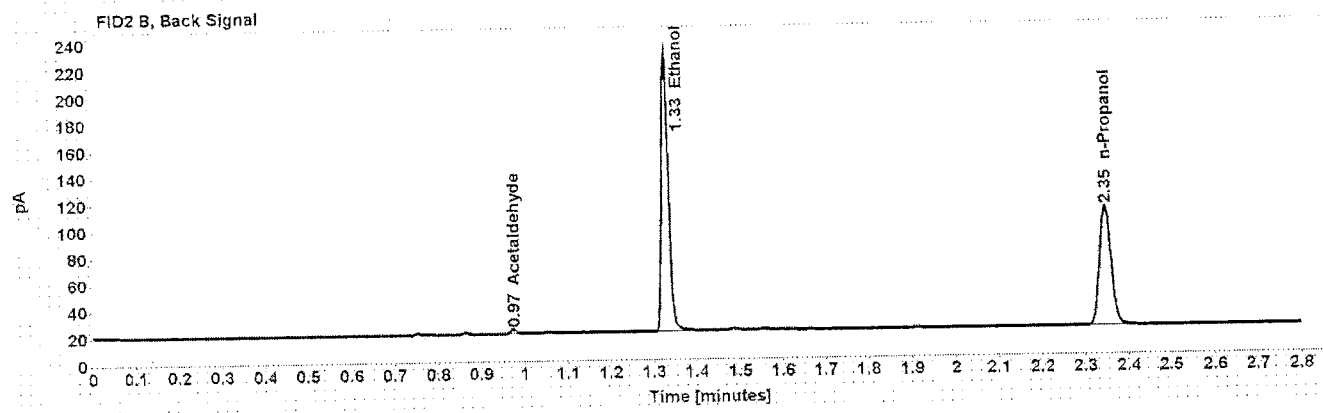
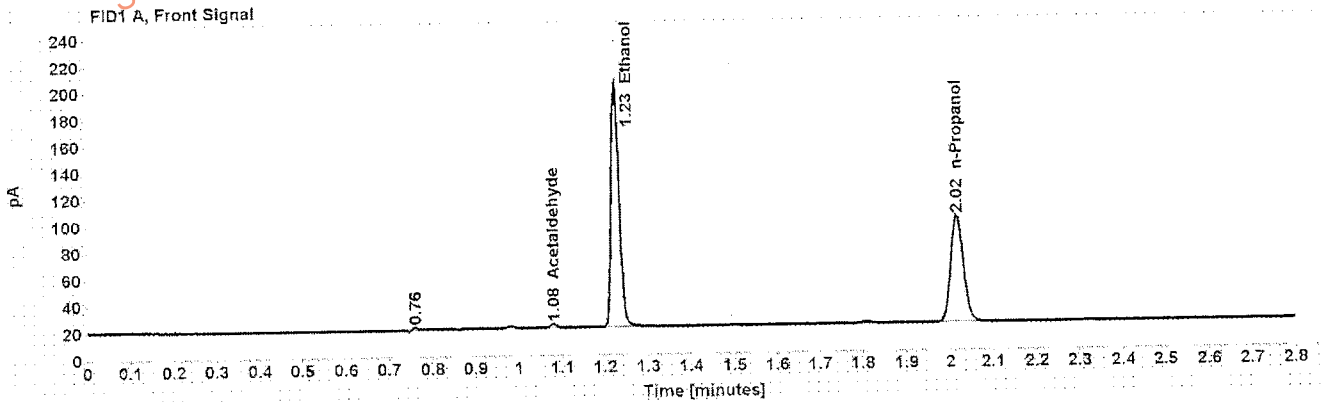


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	2.978
>Ethanol	0.4152	1.226	236.968
n-Propanol	-----	2.017	163.204

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.094
Ethanol	1.328	243.321
n-Propanol	2.346	166.785

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1052253
Injection date:	7/20/2016 3:31:19 PM	Vial:	17
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\20Jul16\17.D		

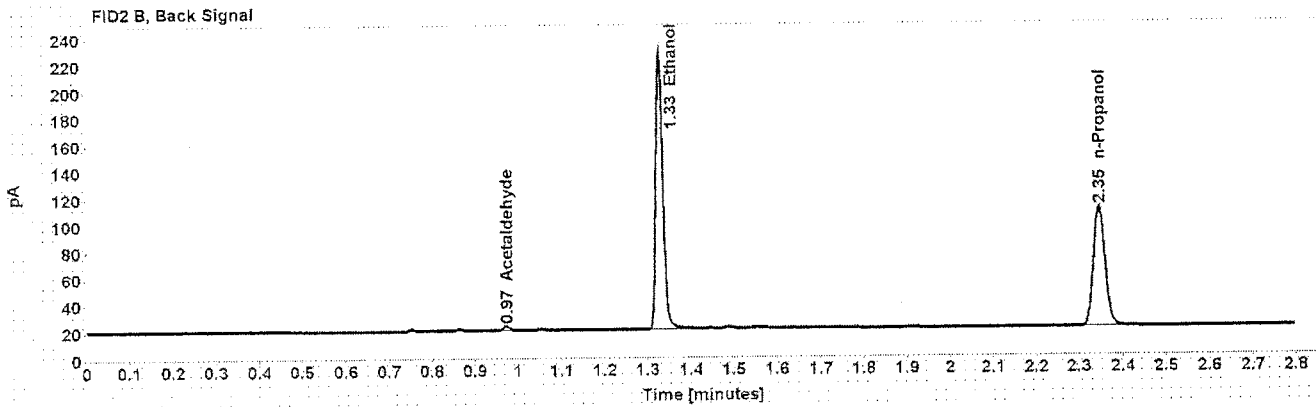
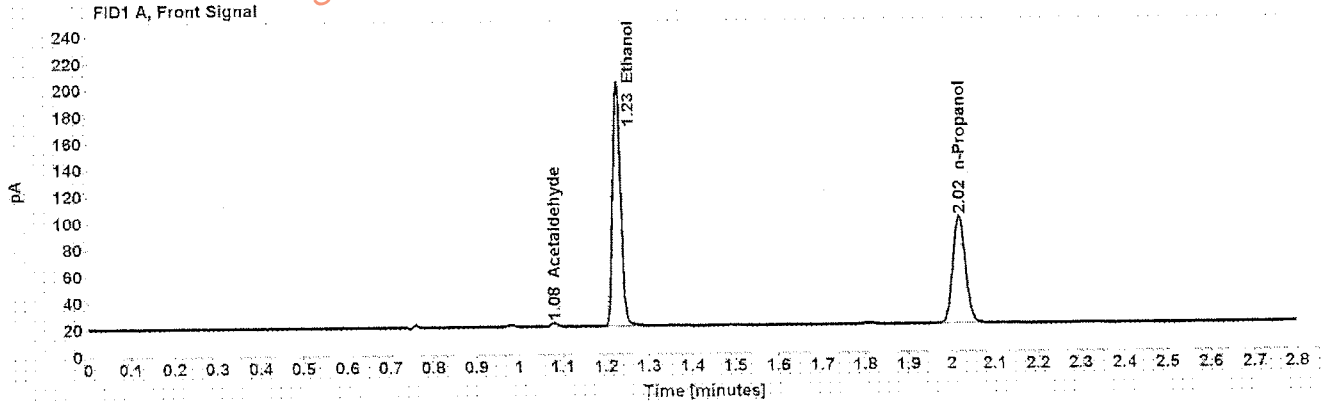


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	2.974
>Ethanol	0.4123	1.226	236.939
n-Propanol	-----	2.017	164.327

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.166
Ethanol	1.328	243.302
n-Propanol	2.346	167.694



Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1052775  
 Injection date: 7/20/2016 3:35:19 PM Vial: 18  
 Method: ethanol quant.M Sequence: 20Jul16  
 Instrument: US14173023 CN14160045 Analyst: Langan  
 Data file: C:\Chem32\11\Data\20Jul16\18.D

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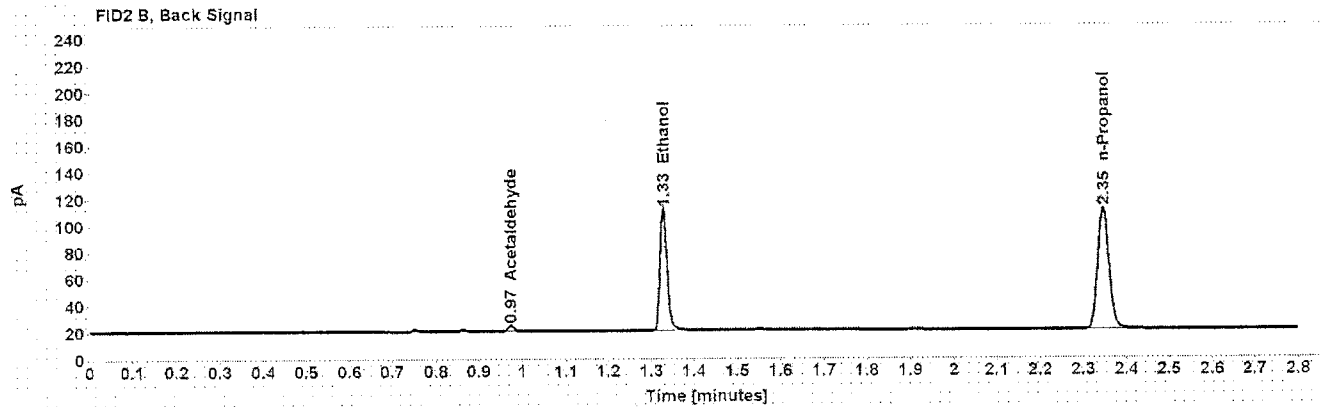
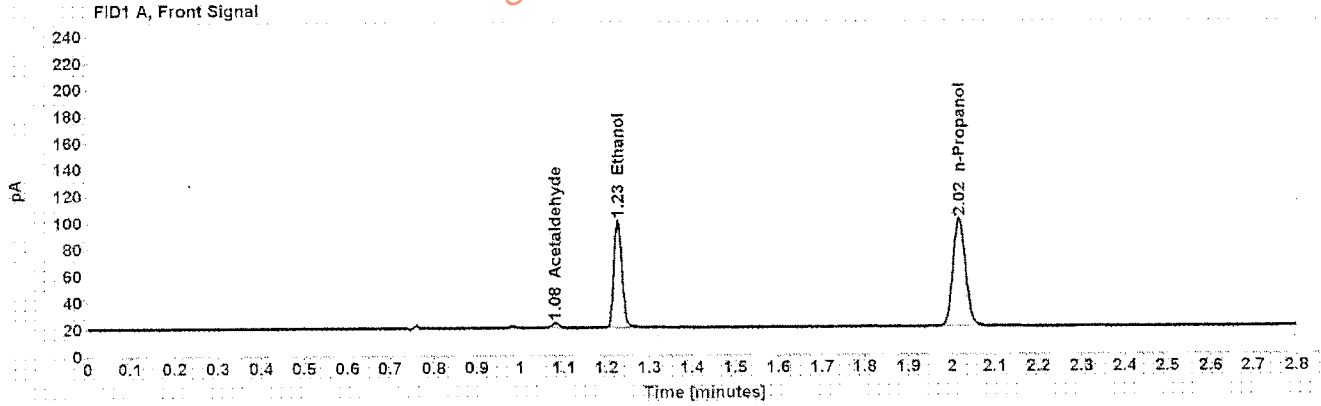


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.911
>Ethanol	0.1808	1.227	104.102
n-Propanol	-----	2.017	165.234

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.113
Ethanol	1.329	106.064
n-Propanol	2.346	168.936

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1052775
<b>Injection date:</b> 7/20/2016 3:39:34 PM	<b>Vial:</b> 19
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem32\1\Data\20Jul16\19.D	

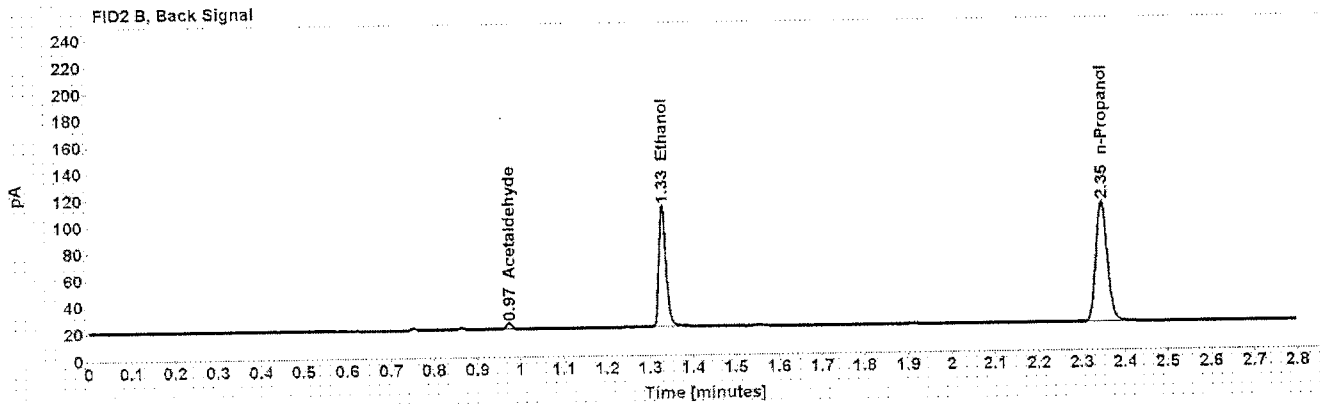
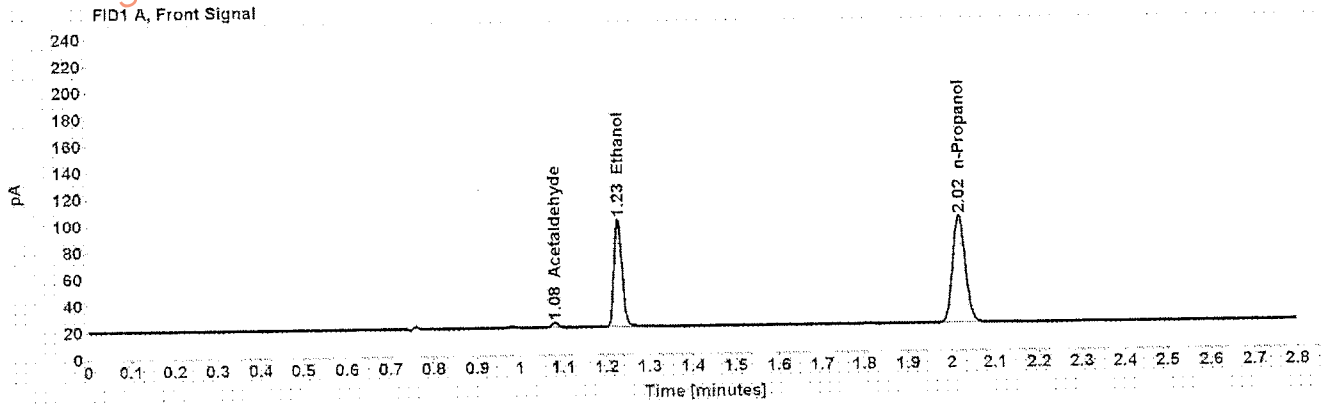


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.838
>Ethanol	0.1817	1.227	103.954
n-Propanol	-----	2.017	164.155

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.008
Ethanol	1.329	105.973
n-Propanol	2.346	167.917

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1053131
Injection date:	7/20/2016 3:47:35 PM	Vial:	21
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\20Jul16\21.D		

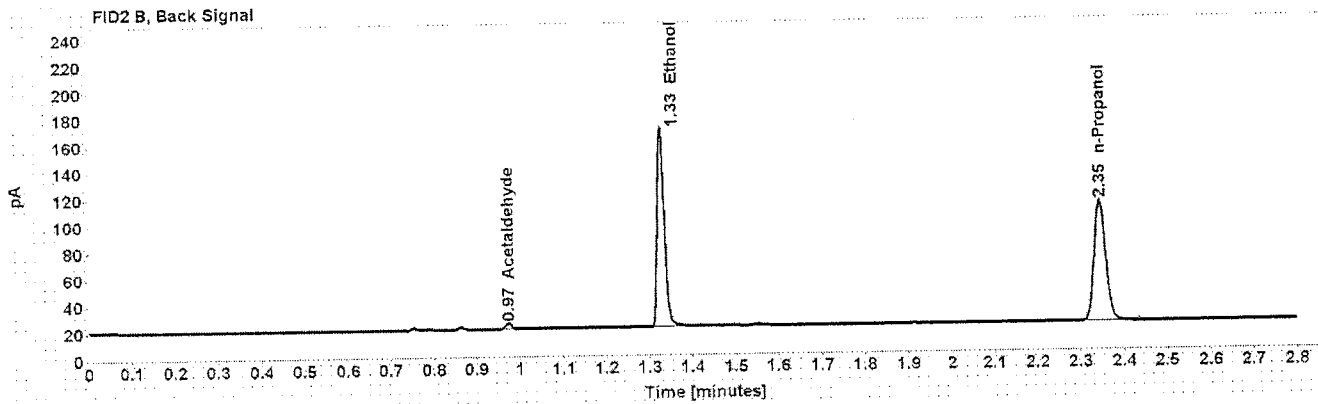
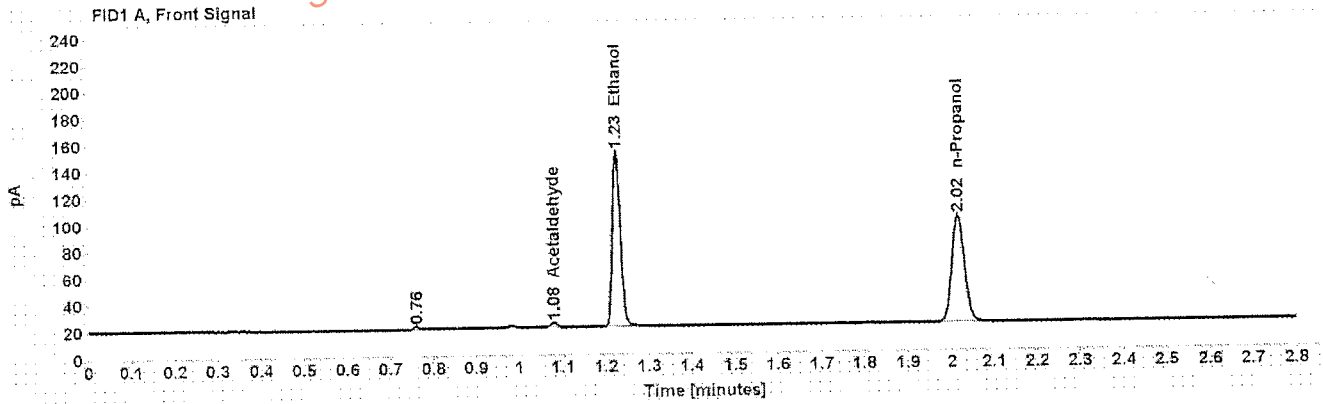


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.925
>Ethanol	0.2975	1.226	170.805
n-Propanol	-----	2.017	164.356

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	4.045
Ethanol	1.327	173.977
n-Propanol	2.345	167.755

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1053131
<b>Injection date:</b> 7/20/2016 3:51:34 PM	<b>Vial:</b> 22
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem32\1\Data\20Jul16\22.D	

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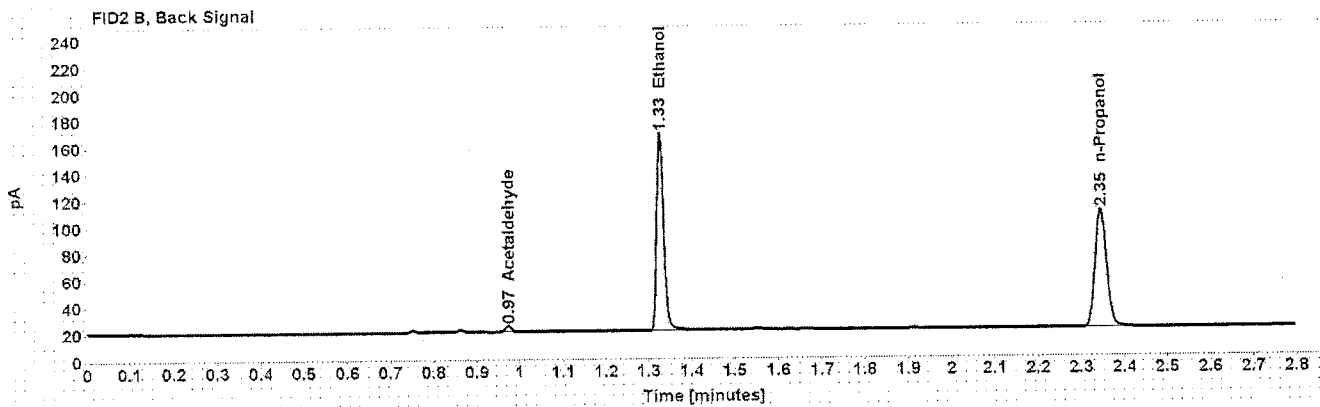
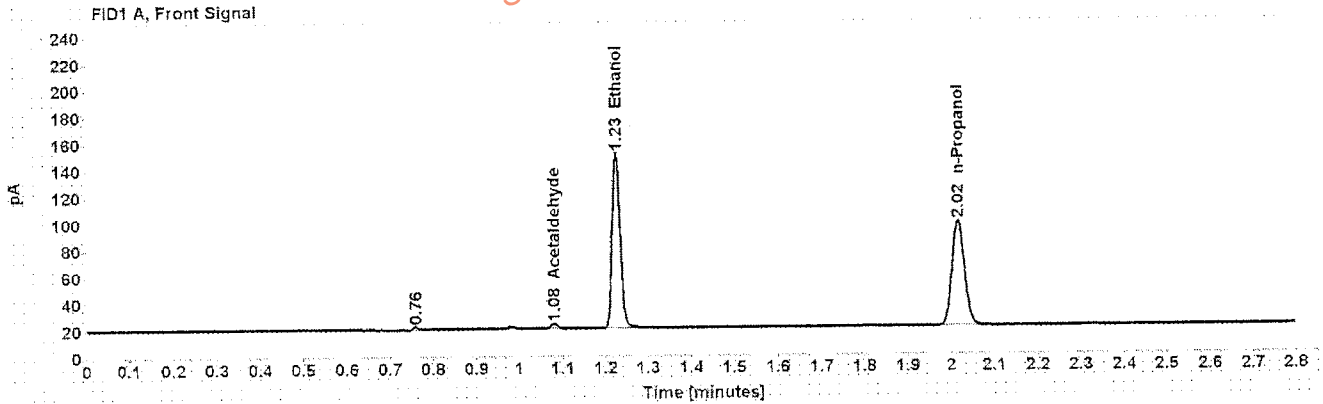


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.958
>Ethanol	0.3020	1.226	169.949
n-Propanol	-----	2.017	161.054

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	4.045
Ethanol	1.328	174.423
n-Propanol	2.345	164.653

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1054208
Injection date: 7/20/2016 3:55:34 PM	Vial: 23
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023\CN14160045	Analyst: Langan
Data file: C:\Chem321\1\Data\20Jul16\23.D	

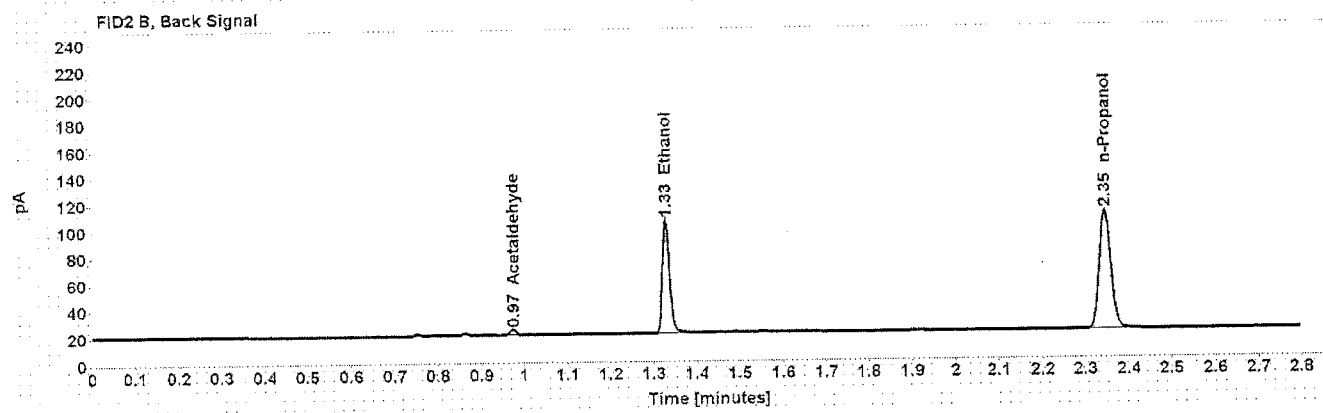
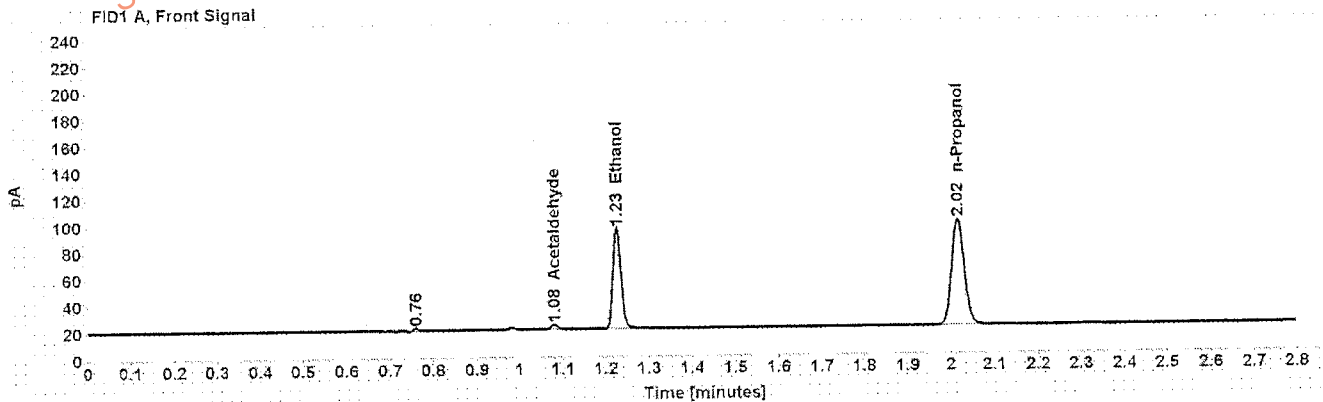


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.748
>Ethanol	0.1722	1.226	97.683
n-Propanol	-----	2.017	162.807

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	3.921
Ethanol	1.328	99.358
n-Propanol	2.345	166.379

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1054208
<b>Injection date:</b> 7/20/2016 3:59:34 PM	<b>Vial:</b> 24
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
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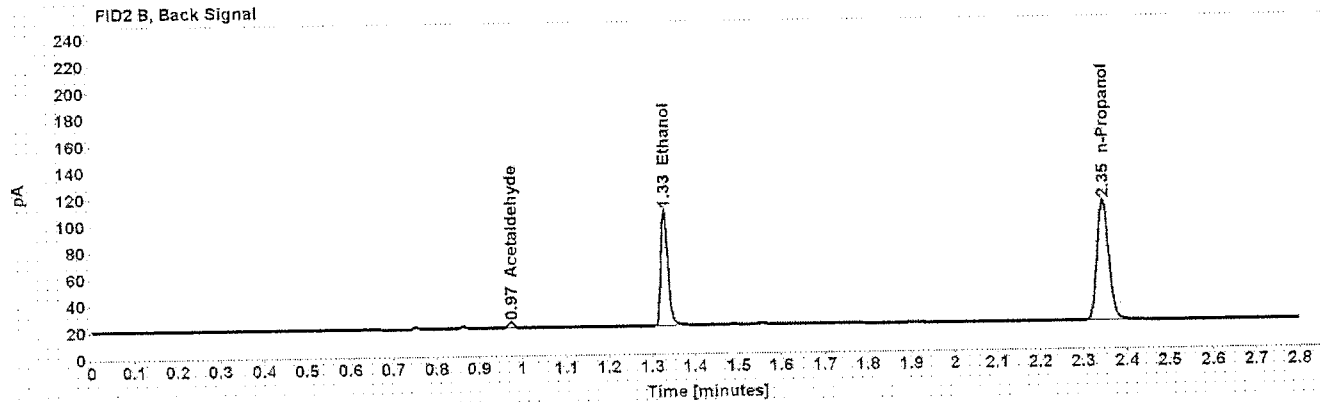
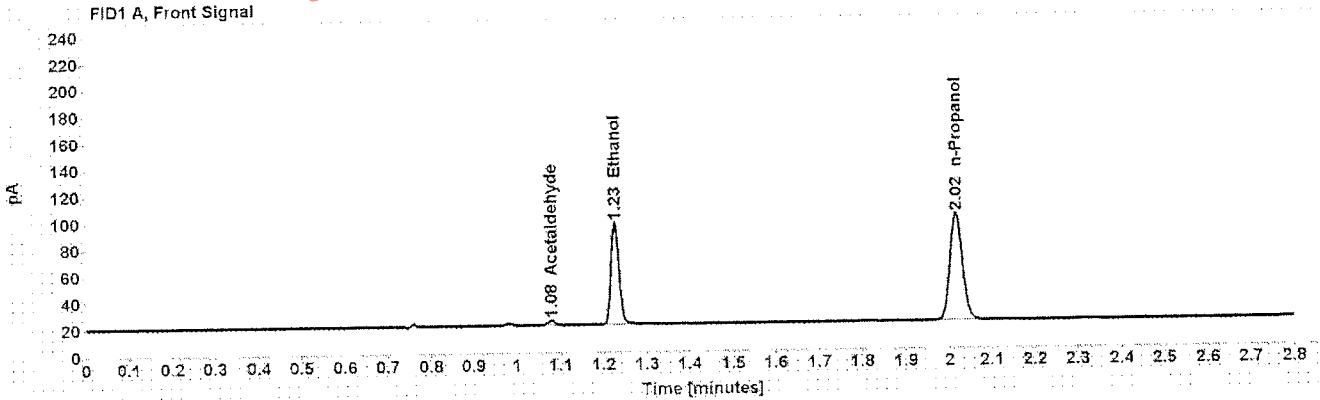


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.740
>Ethanol	0.1724	1.227	98.709
n-Propanol	-----	2.017	164.347

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.930
Ethanol	1.329	100.641
n-Propanol	2.346	168.257

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: <span style="background-color: black; color: black;">XXXXXXXXXX</span> Injection date: 7/20/2016 4:03:49 PM Method: ethanol quant.M Instrument: US14173023 CN14160045 Data file: C:\Chem32\1\Data\20Jul16\25.D	Item number: 1054481 Vial: 25 Sequence: 20Jul16 Analyst: Langan
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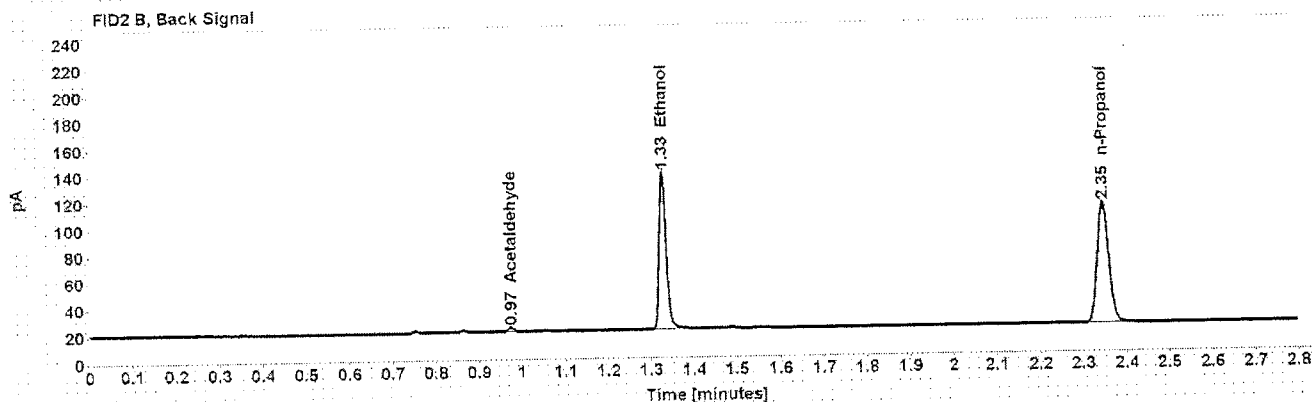
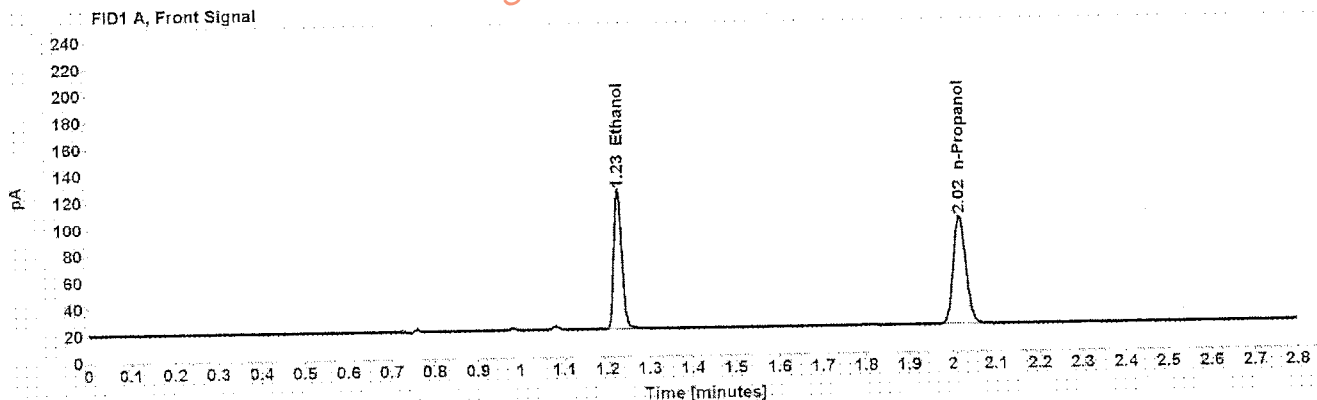


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2331	1.226	134.516
n-Propanol	-----	2.017	165.365

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	2.804
Ethanol	1.328	137.248
n-Propanol	2.346	168.619



Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1054481
Injection date:	7/20/2016 4:07:49 PM	Vial:	26
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\14Data\20Jul16\26.D		

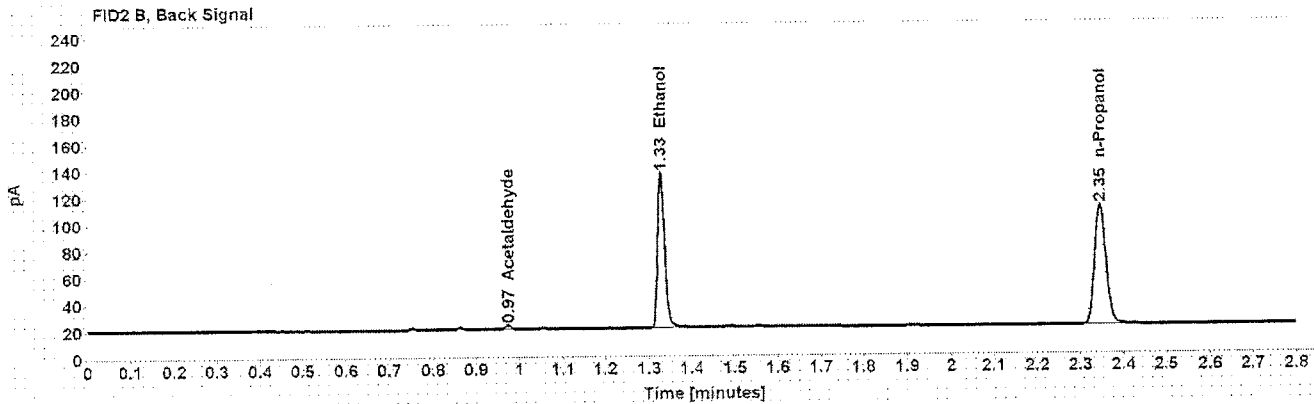
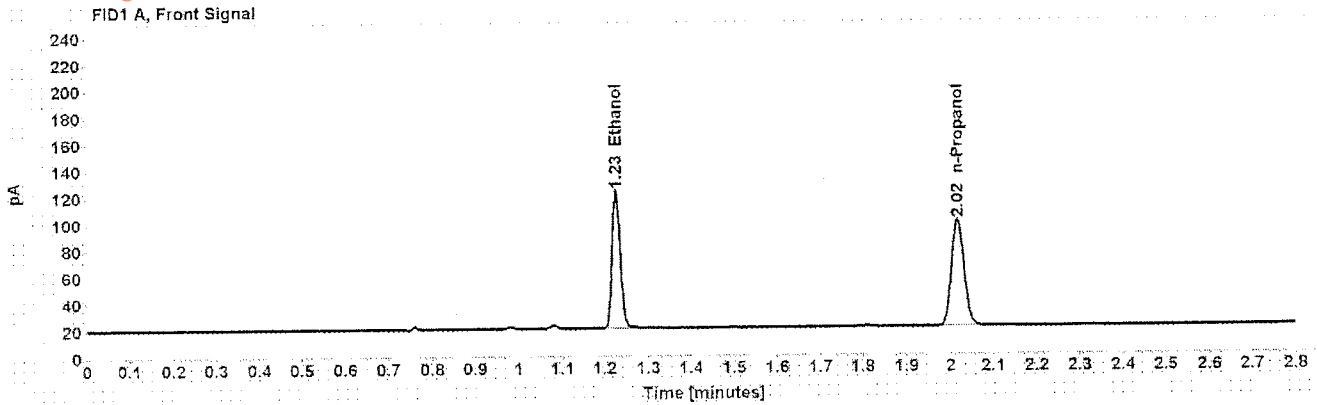


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2340	1.227	133.184
n-Propanol	-----	2.018	163.043

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	2.804
Ethanol	1.329	135.419
n-Propanol	2.347	166.598

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: <span style="background-color: black; color: black;">XXXXXXXXXX</span>	Item number: 1054800
Injection date: 7/20/2016 4:11:49 PM	Vial: 27
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem321\1Data\20Jul16\27.D	

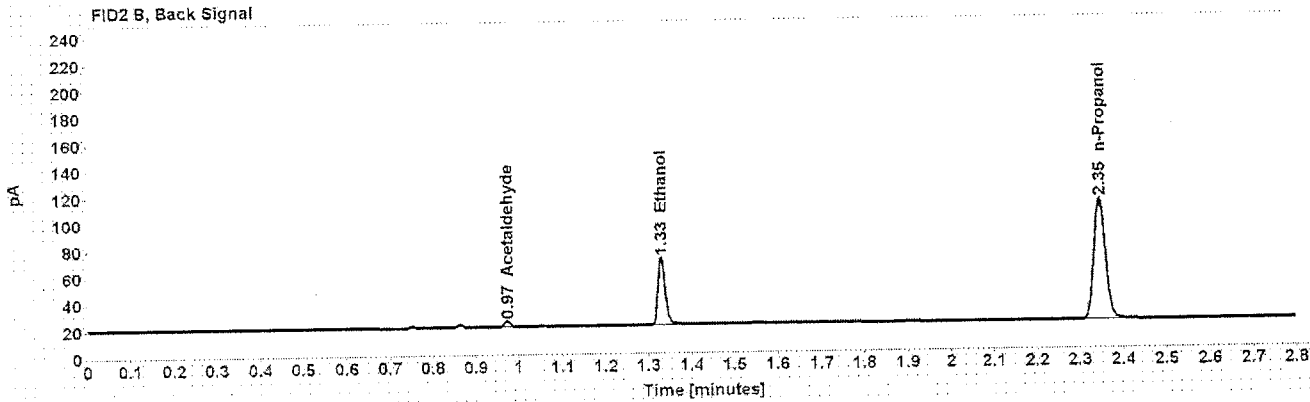
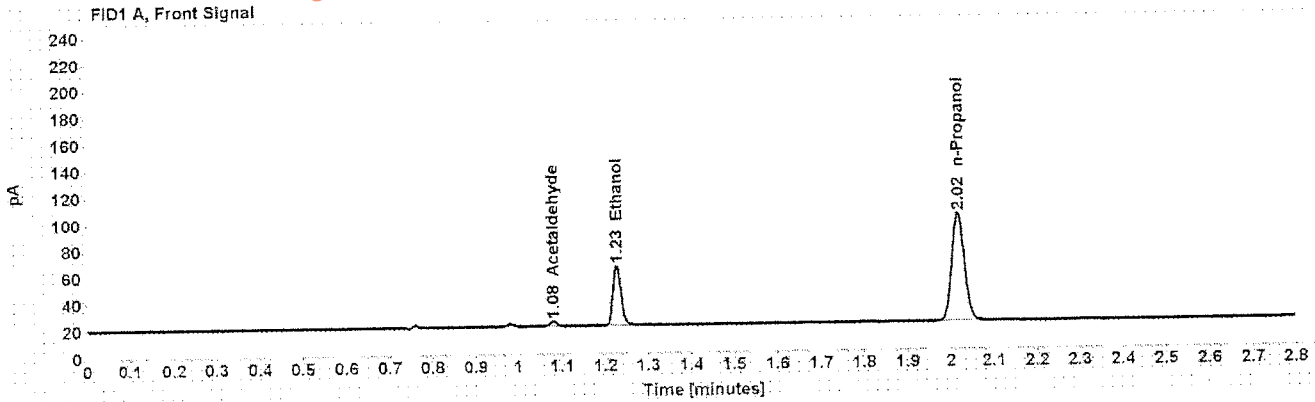


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.940
>Ethanol	0.1012	1.227	58.057
n-Propanol	-----	2.017	165.425

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.079
Ethanol	1.329	59.618
n-Propanol	2.346	169.344

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1054800
Injection date:	7/20/2016 4:15:49 PM	Vial:	28
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\20Jul16\28.D		

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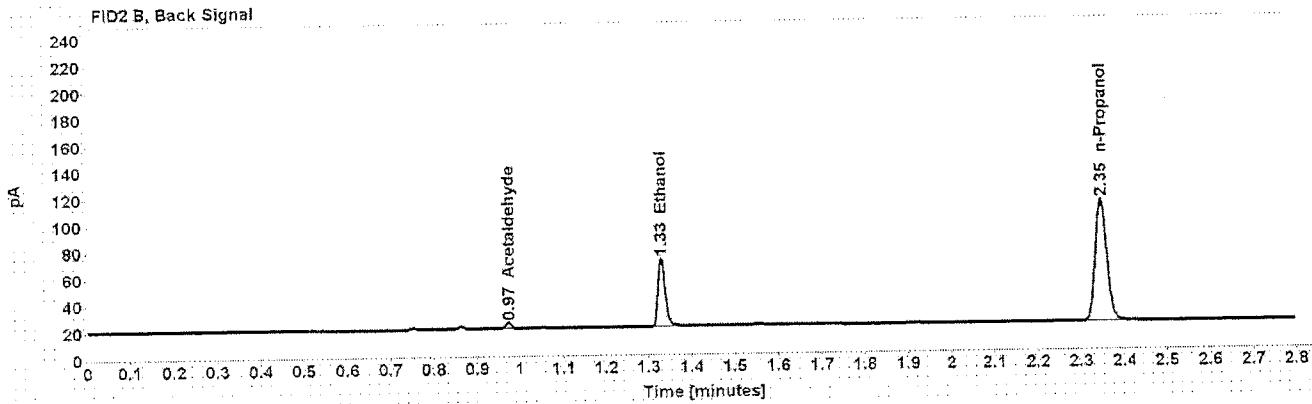
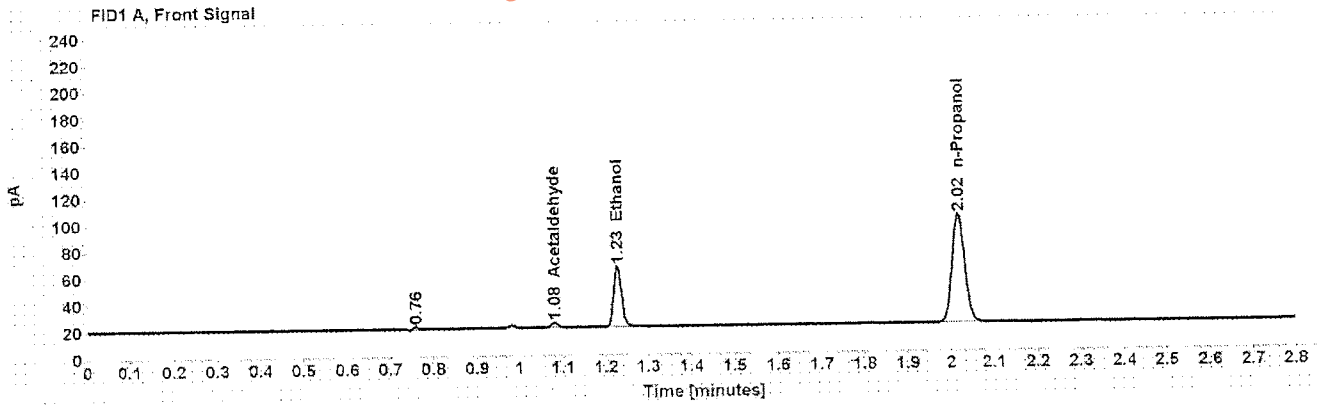


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.960
>Ethanol	0.1016	1.227	58.468
n-Propanol	-----	2.017	165.859

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.991
Ethanol	1.330	59.450
n-Propanol	2.346	169.688

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: <span style="background-color: black; color: black;">XXXXXXXXXX</span> Injection date: 7/20/2016 4:19:49 PM Method: ethanol quant.M Instrument: US14173023 CN14160045 Data file: C:\Chem32\11\Data\20Jul16\29.D	Item number: 1054819 Vial: 29 Sequence: 20Jul16 Analyst: Langan
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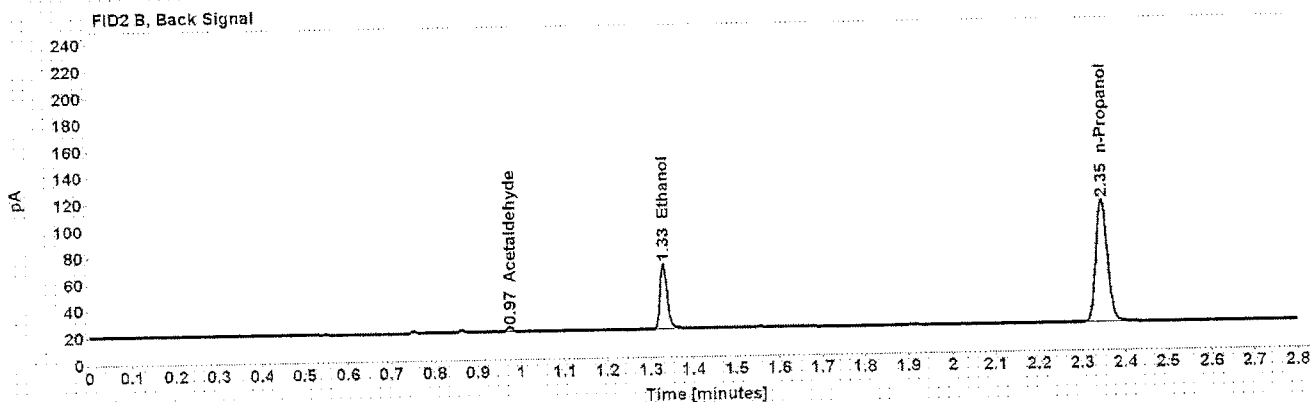
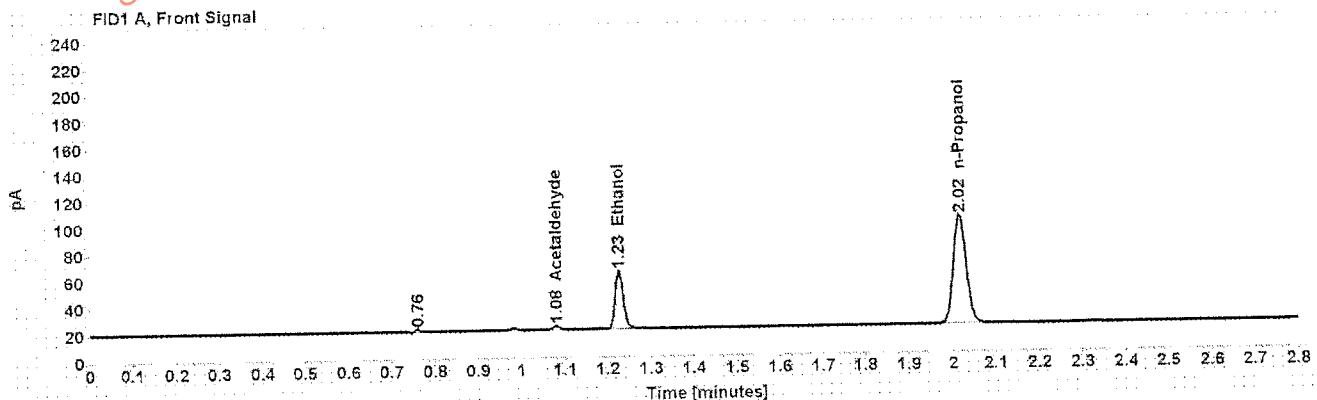


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.080
>Ethanol	0.0978	1.227	56.607
n-Propanol	-----	2.017	166.876

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.209
Ethanol	1.330	57.301
n-Propanol	2.346	170.551

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1054819
Injection date:	7/20/2016 4:23:50 PM	Vial:	30
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem\3211\Data\20Jul16\30.D		

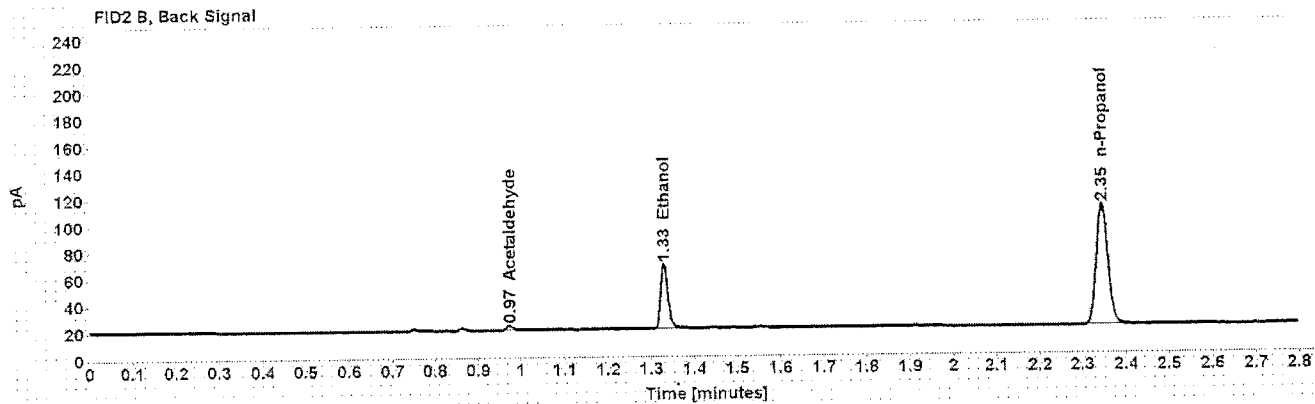
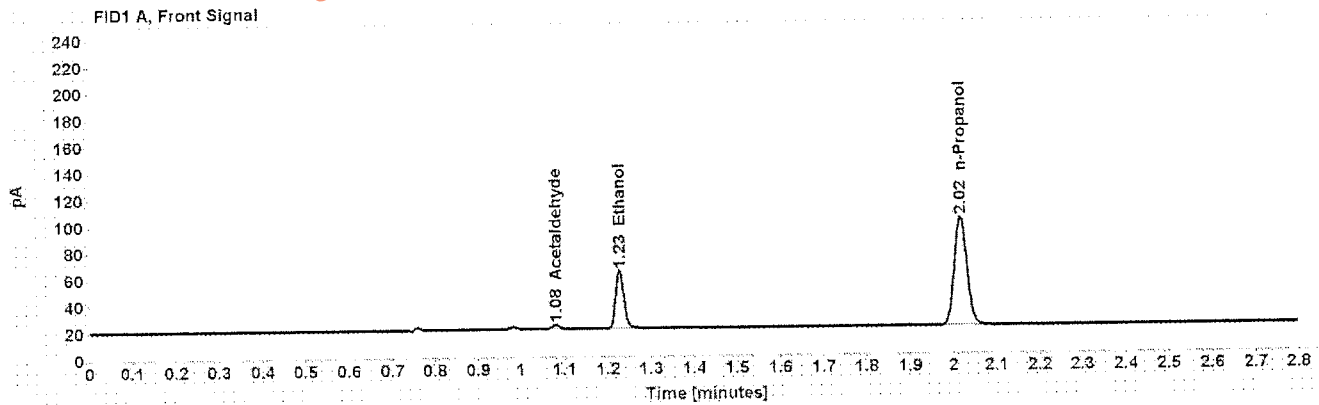


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.104
>Ethanol	0.0975	1.227	55.940
n-Propanol	-----	2.017	165.419

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.281
Ethanol	1.329	57.518
n-Propanol	2.346	168.854

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1054983  
 Injection date: 7/20/2016 4:32:04 PM Vial: 32  
 Method: ethanol quant.M Sequence: 20Jul16  
 Instrument: US14173023 CN14160045 Analyst: Langan  
 Data file: C:\Chem32\1\Data\20Jul16\32.D

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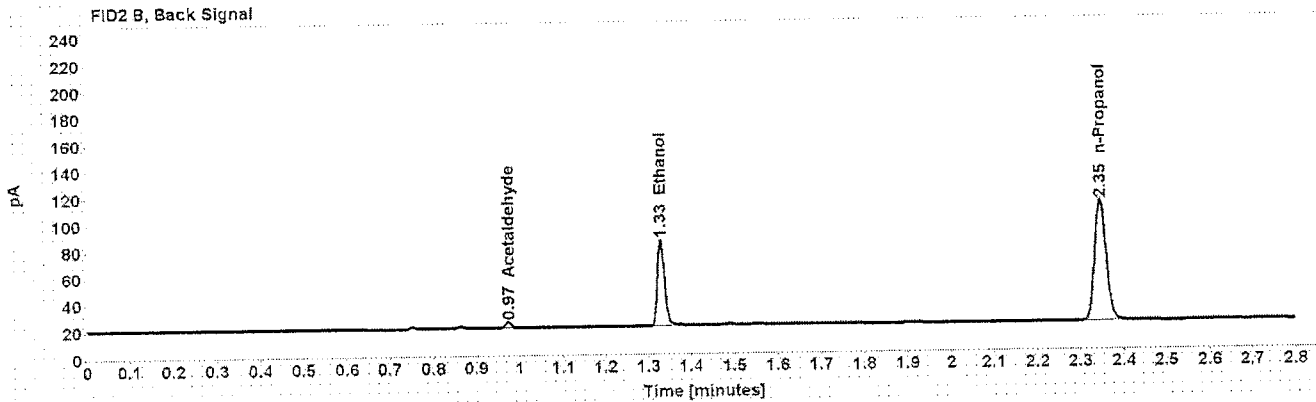
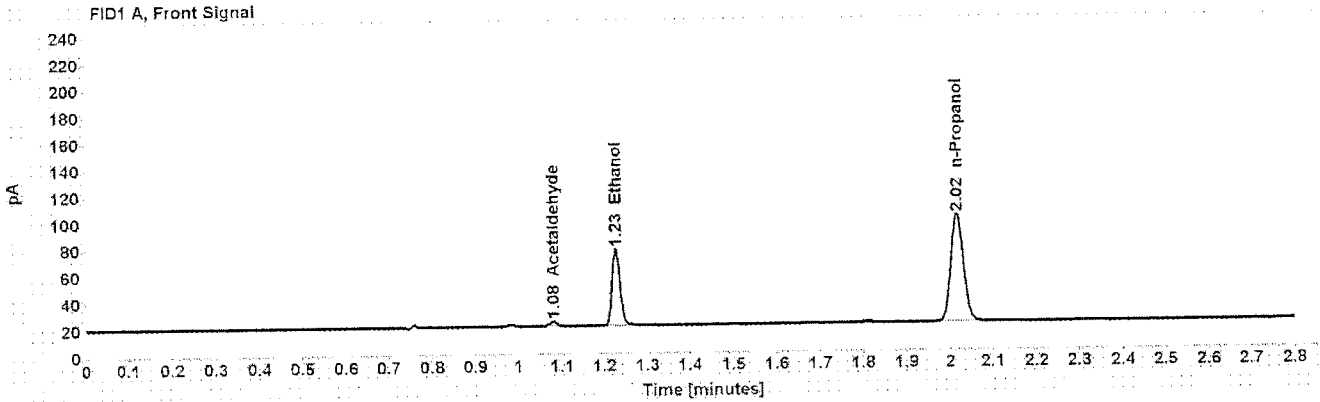


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.828
>Ethanol	0.1297	1.227	74.176
n-Propanol	-----	2.017	164.474

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.945
Ethanol	1.329	75.630
n-Propanol	2.346	168.302

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: <span style="background-color: black; color: black;">XXXXXXXXXX</span>	Item number: 1054983
Injection date: 7/20/2016 4:36:04 PM	Vial: 33
Method: ethanol quant.M	Sequence: 20Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\20Jul16\33.D	

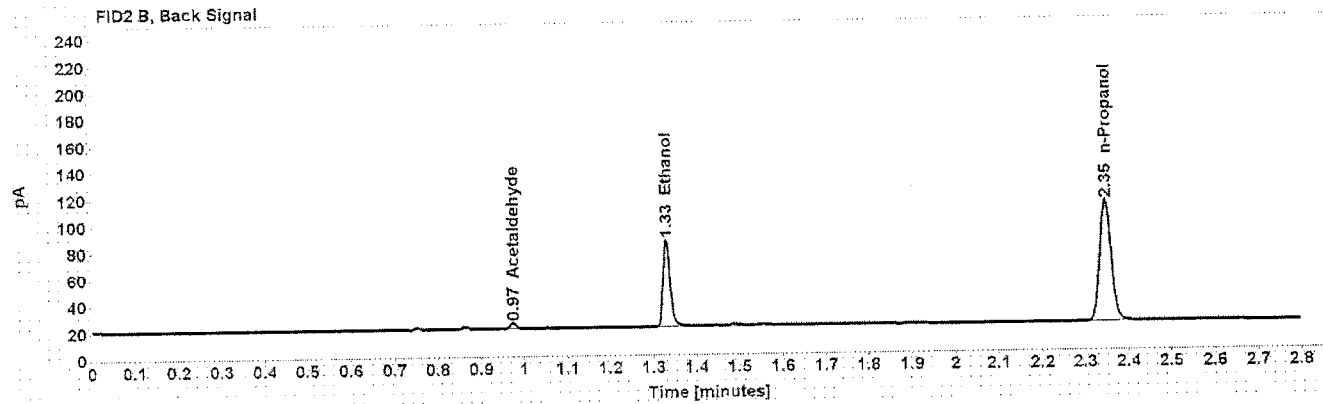
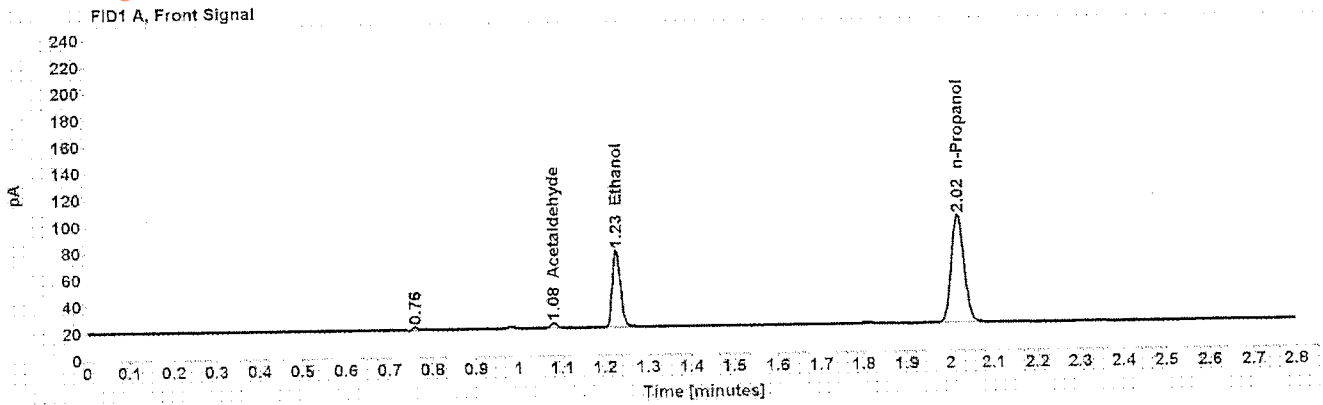


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.879
>Ethanol	0.1300	1.227	74.549
n-Propanol	-----	2.018	164.958

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.005
Ethanol	1.330	75.775
n-Propanol	2.347	168.877

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1055095
<b>Injection date:</b> 7/20/2016 4:40:04 PM	<b>Vial:</b> 34
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem3211\Data\20Jul16\34.D	

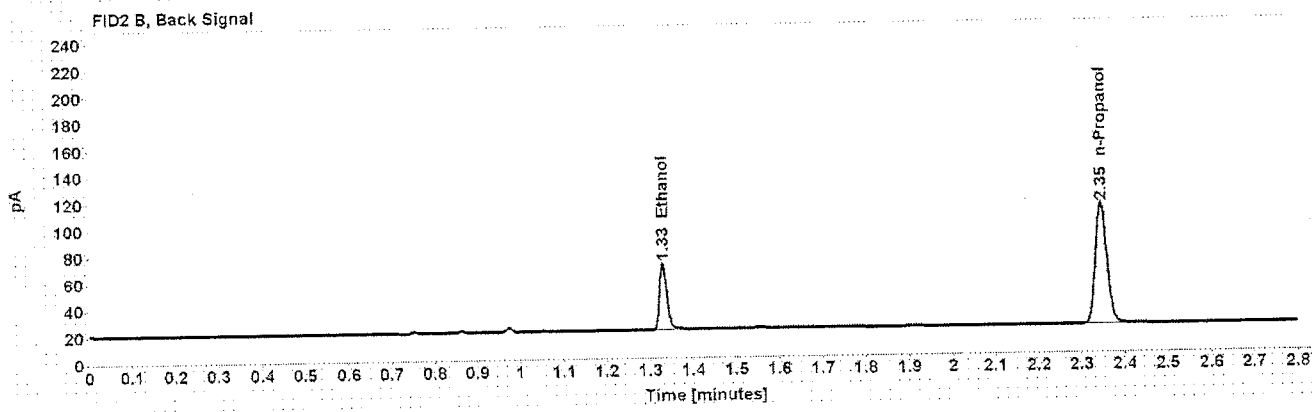
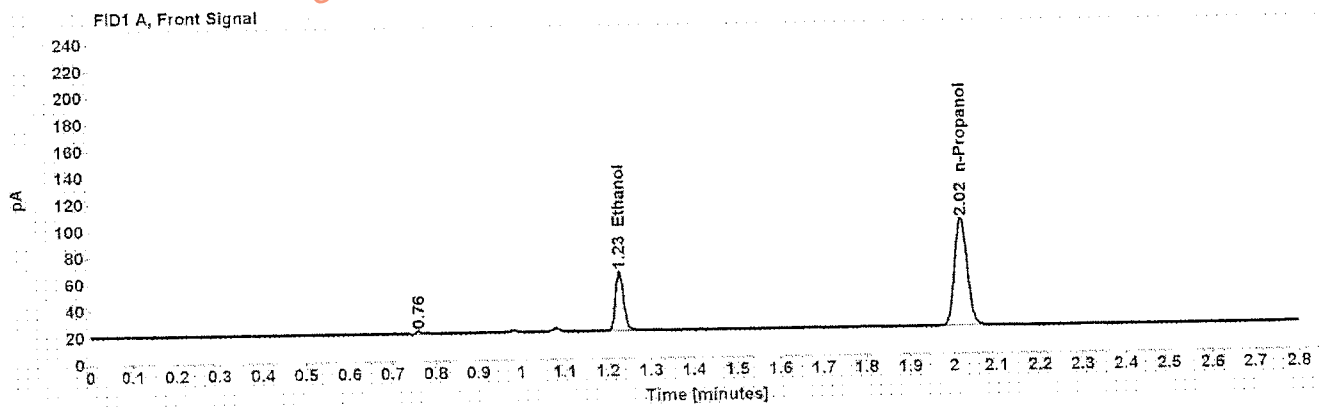


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1006	1.227	57.346
n-Propanol	-----	2.018	164.423

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

Compound	Time (min)	Peak Area
Ethanol	1.330	58.213
n-Propanol	2.347	168.328



## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1055095
Injection date:	7/20/2016 4:44:04 PM	Vial:	35
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\20Jul16\35.D		

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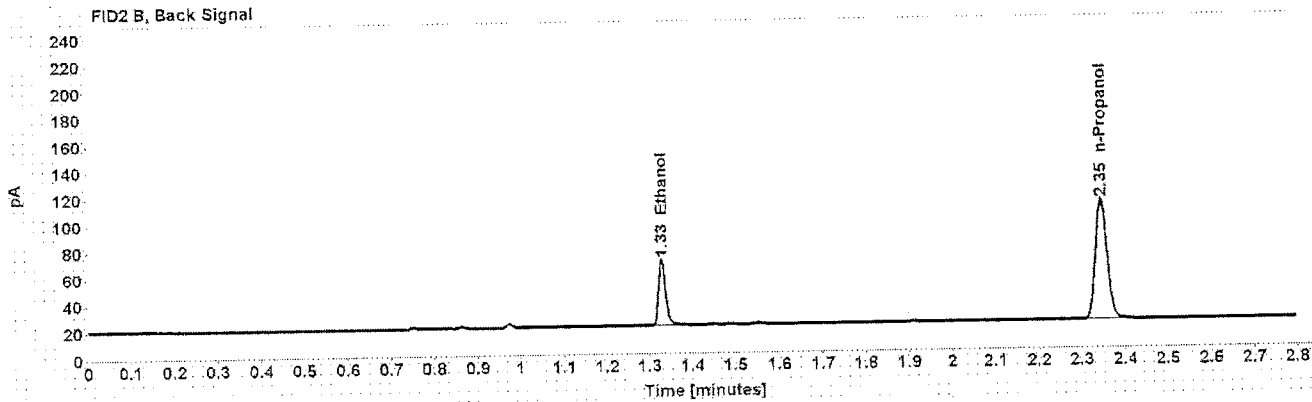
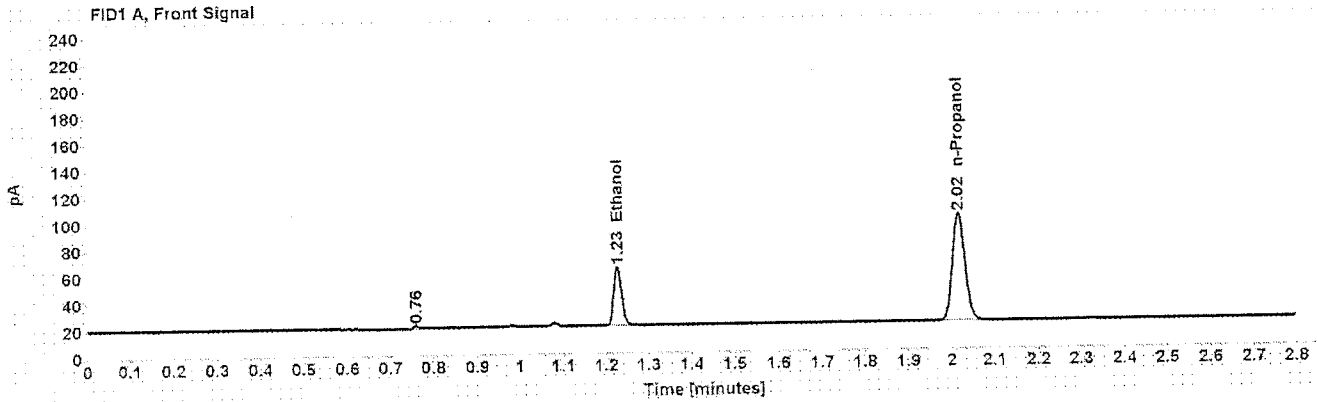


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0996	1.227	56.894
n-Propanol	-----	2.017	164.682

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

Compound	Time (min)	Peak Area
Ethanol	1.329	57.756
n-Propanol	2.346	168.157

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: <span style="background-color: black; color: black;">XXXXXXXXXX</span> Injection date: 7/20/2016 4:48:04 PM Method: ethanol quant.M Instrument: US14173023 CN14160045 Data file: C:\Chem321\1Data\20Jul16\36.D	Item number: 1055099 Vial: 36 Sequence: 20Jul16 Analyst: Langan
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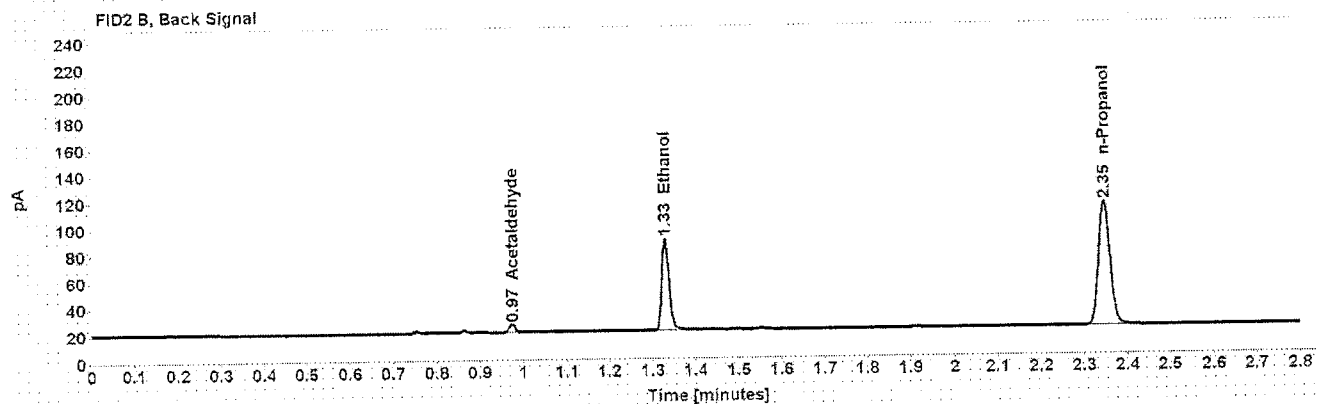
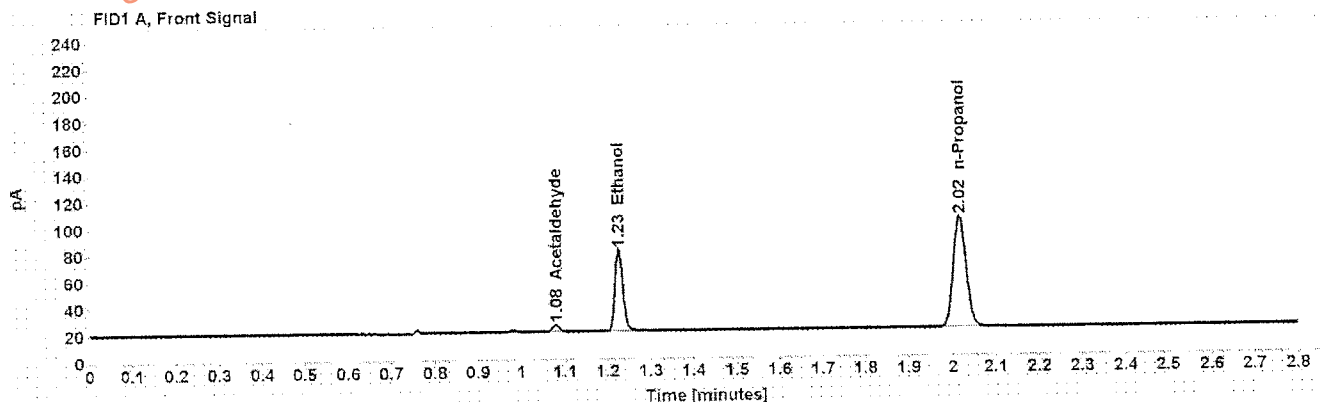


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	5.394
>Ethanol	0.1338	1.227	79.123
n-Propanol	-----	2.017	170.013

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	5.614
Ethanol	1.329	80.252
n-Propanol	2.346	173.482

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1055099
Injection date:	7/20/2016 4:52:19 PM	Vial:	37
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\20Jul16\37.D		

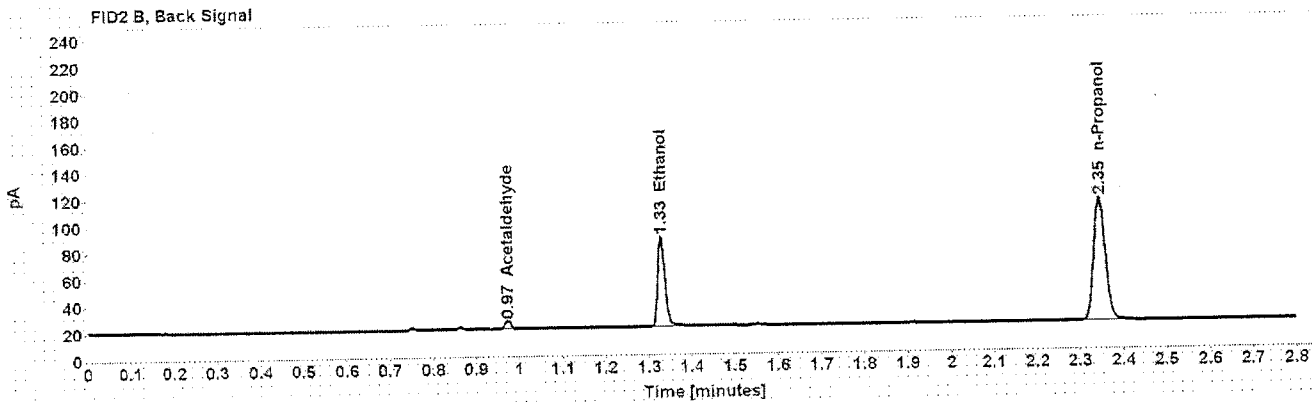
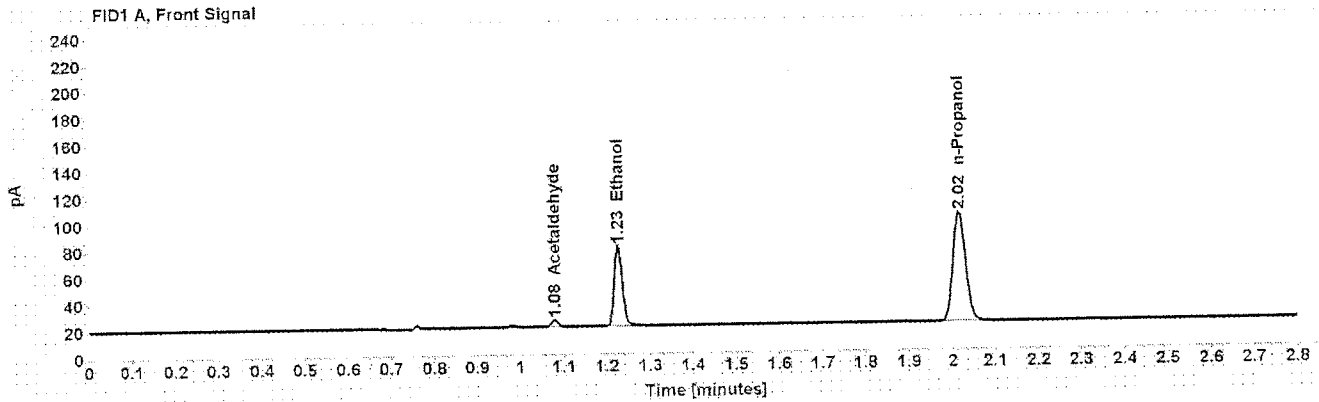


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	5.447
>Ethanol	0.1324	1.227	77.435
n-Propanol	-----	2.017	168.233

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	5.685
Ethanol	1.329	78.640
n-Propanol	2.346	171.956

**Scottsdale Police Department Crime Lab Volatiles Analysis**

Sample:	[REDACTED]	Item number:	1055923
Injection date:	7/20/2016 4:56:19 PM	Vial:	38
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data20Jul16\38.D		

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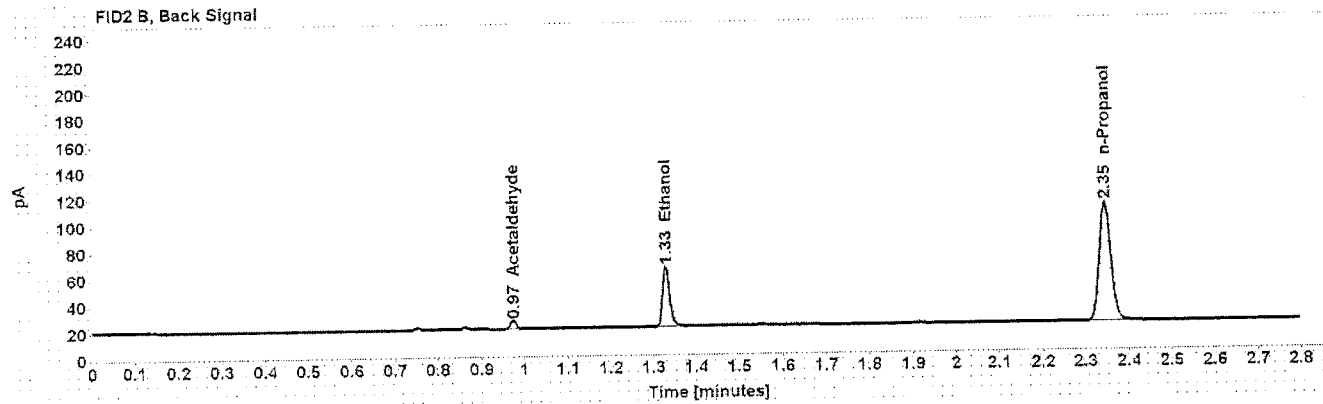
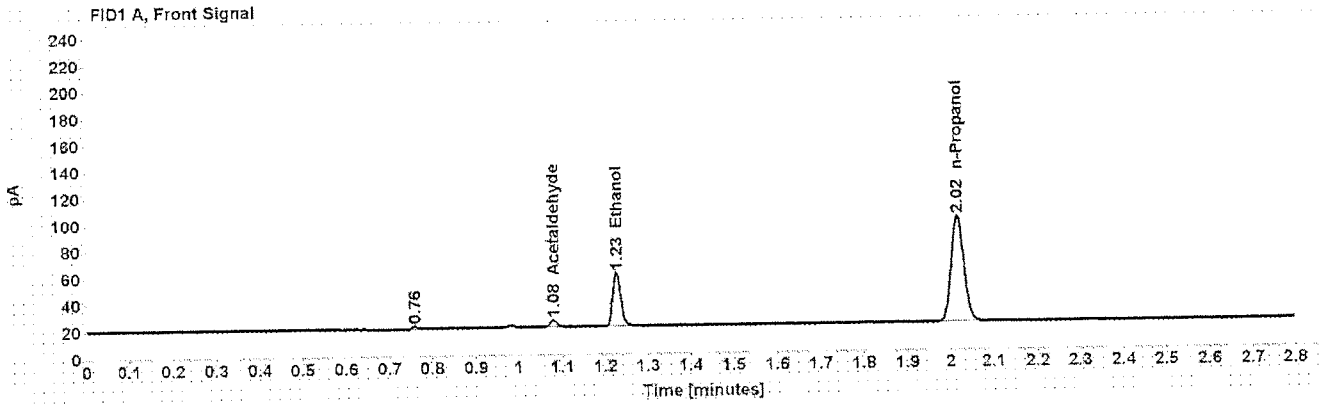


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	5.564
>Ethanol	0.0921	1.227	51.737
n-Propanol	-----	2.017	162.215

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	5.809
Ethanol	1.329	52.575
n-Propanol	2.345	165.995

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1055923
Injection date:	7/20/2016 5:00:19 PM	Vial:	39
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem321\Data\20Jul16\39.D		

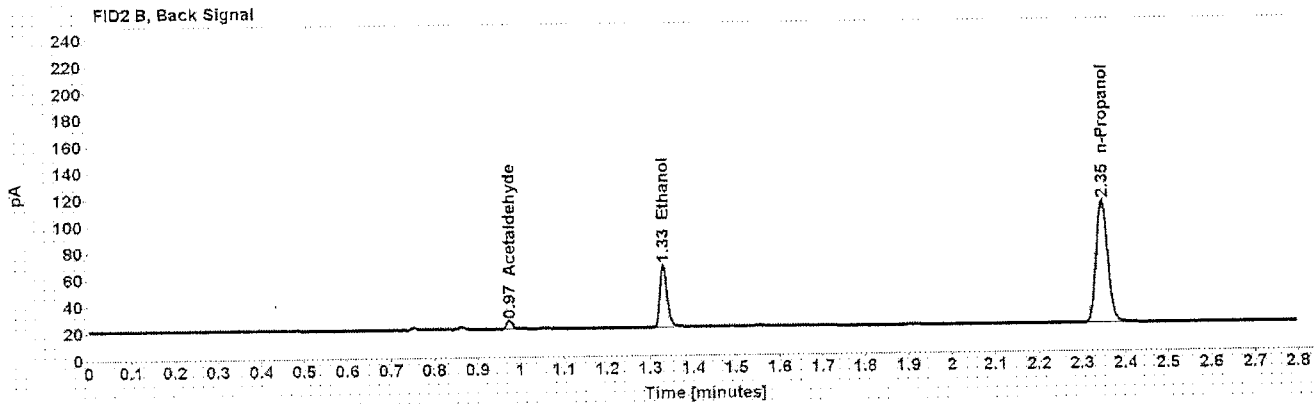
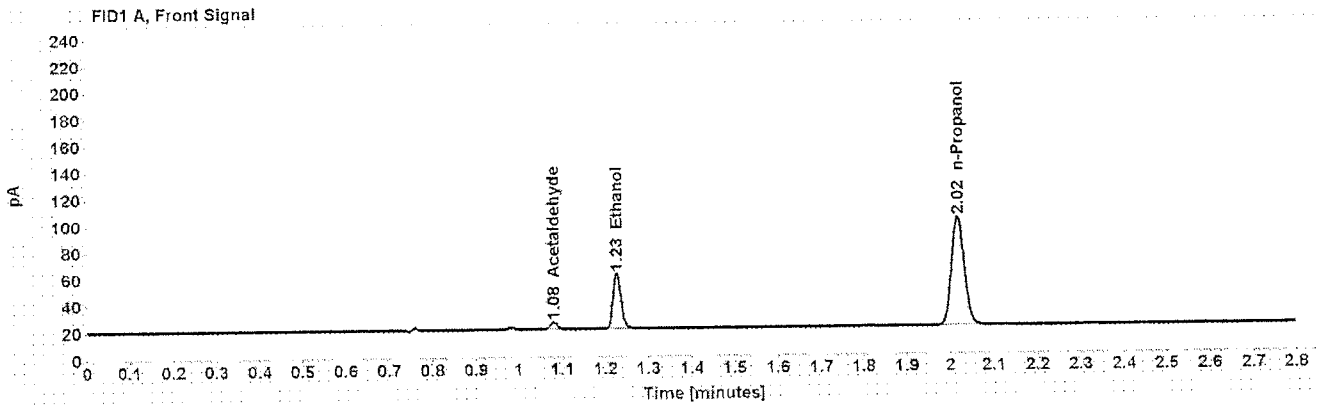


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	5.549
>Ethanol	0.0928	1.227	53.547
n-Propanol	-----	2.017	166.445

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	5.741
Ethanol	1.330	54.319
n-Propanol	2.346	170.162

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1091845
Injection date:	7/20/2016 5:04:19 PM	Vial:	40
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem321\Data\20Jul16\40.D		

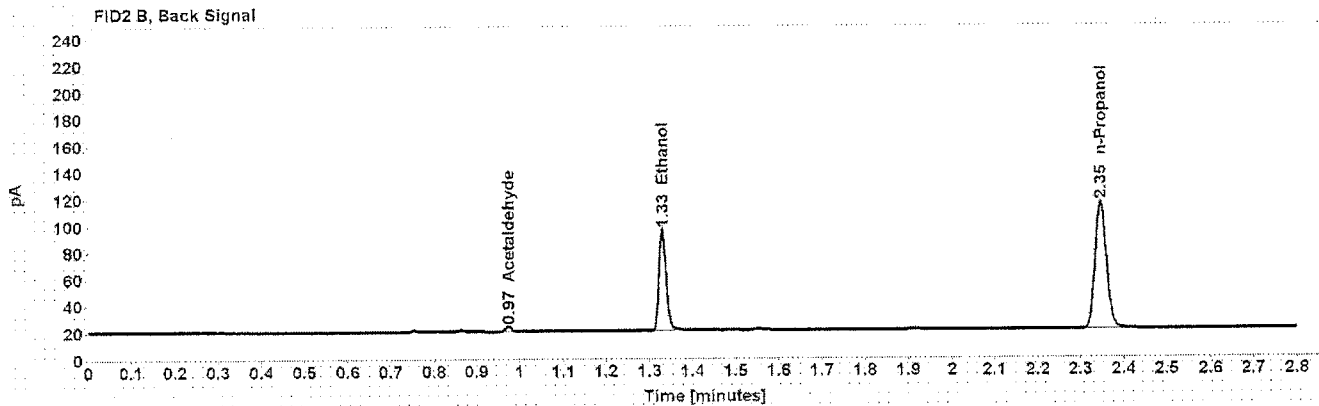
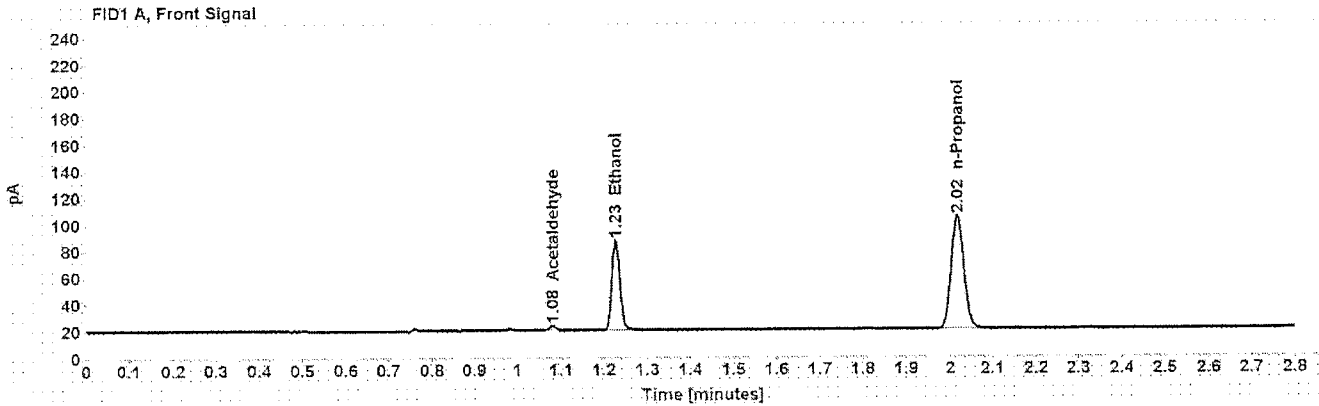


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.081	3.429
>Ethanol	0.1447	1.227	87.177
n-Propanol	-----	2.018	173.084

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.569
Ethanol	1.330	88.839
n-Propanol	2.347	176.930

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1091845
Injection date:	7/20/2016 5:08:19 PM	Vial:	41
Method:	ethanol quant.M	Sequence:	20Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\20Jul16\41.D		

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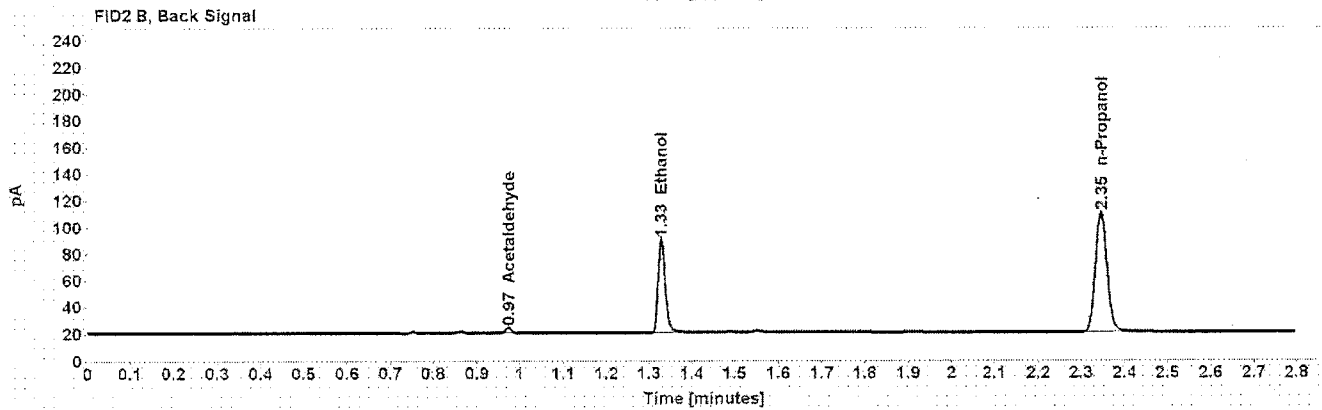
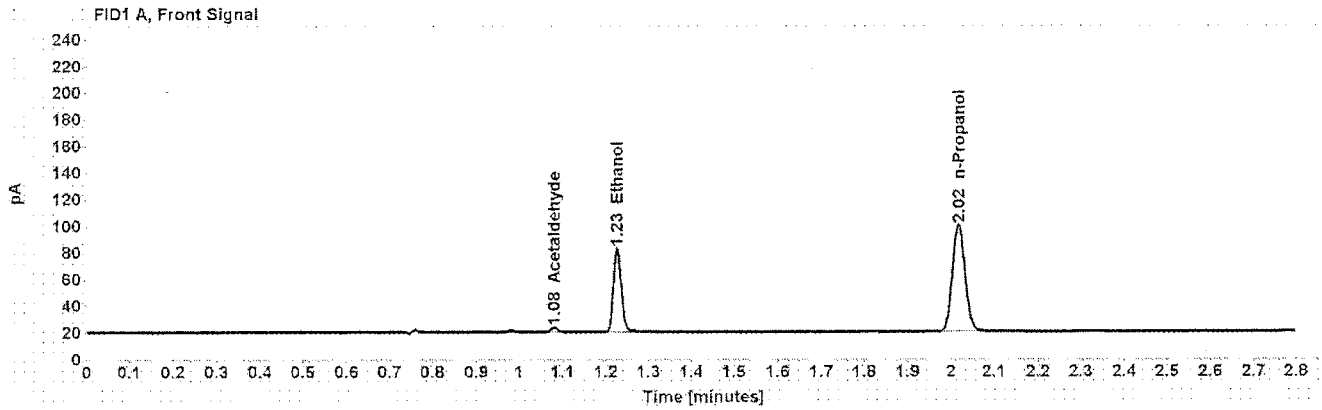


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.454
>Ethanol	0.1415	1.227	80.612
n-Propanol	-----	2.017	163.774

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.560
Ethanol	1.329	82.078
n-Propanol	2.346	167.224

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> ██████████	<b>Item number:</b> 1095316
<b>Injection date:</b> 7/20/2016 5:16:34 PM	<b>Vial:</b> 43
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
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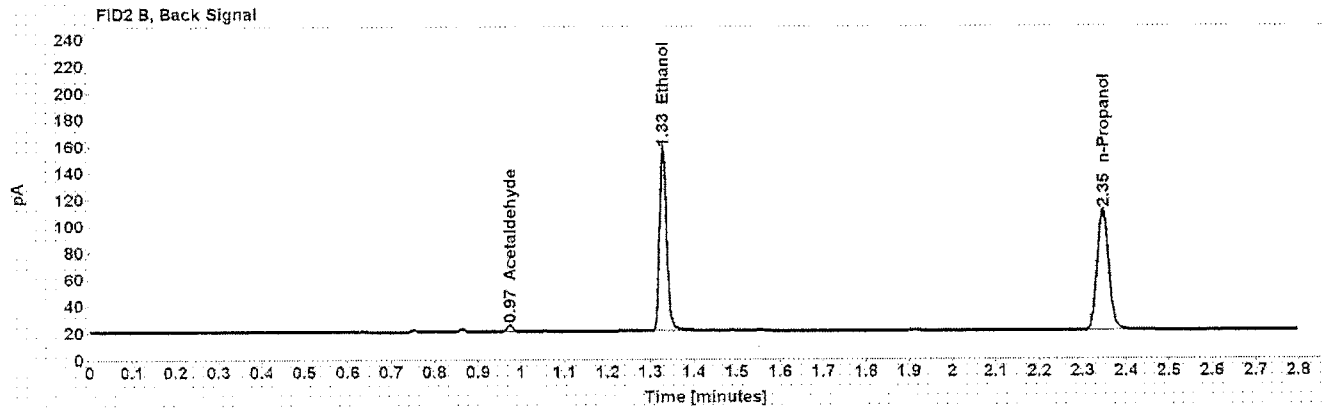
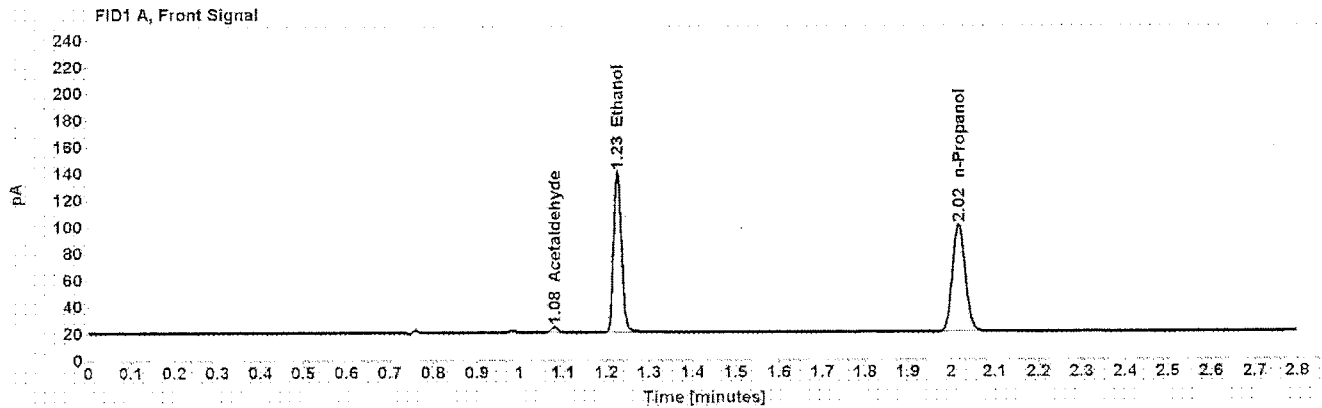


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.451
>Ethanol	0.2709	1.227	155.625
n-Propanol	-----	2.017	164.469

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.489
Ethanol	1.329	158.432
n-Propanol	2.346	167.861



## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1095316
<b>Injection date:</b> 7/20/2016 5:20:34 PM	<b>Vial:</b> 44
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 20Jul16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
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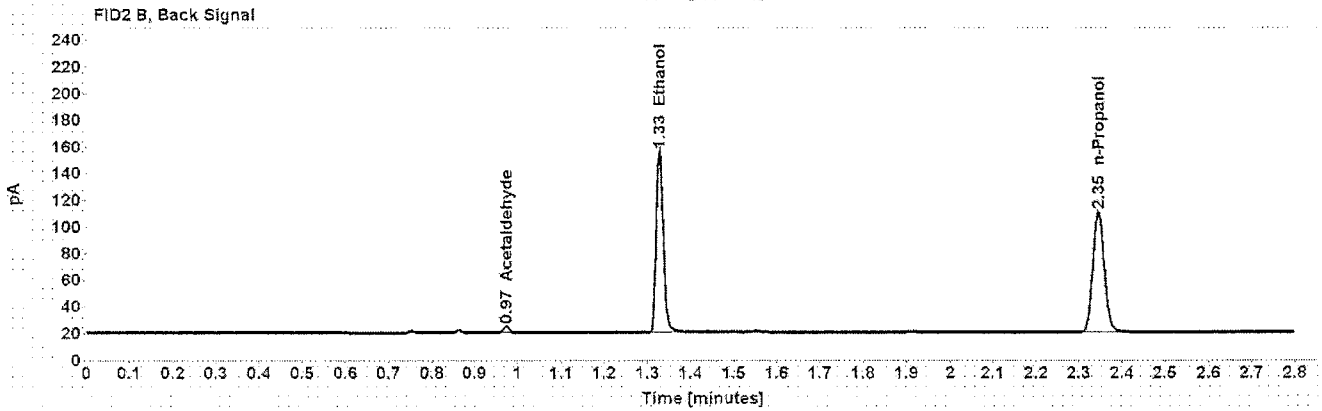
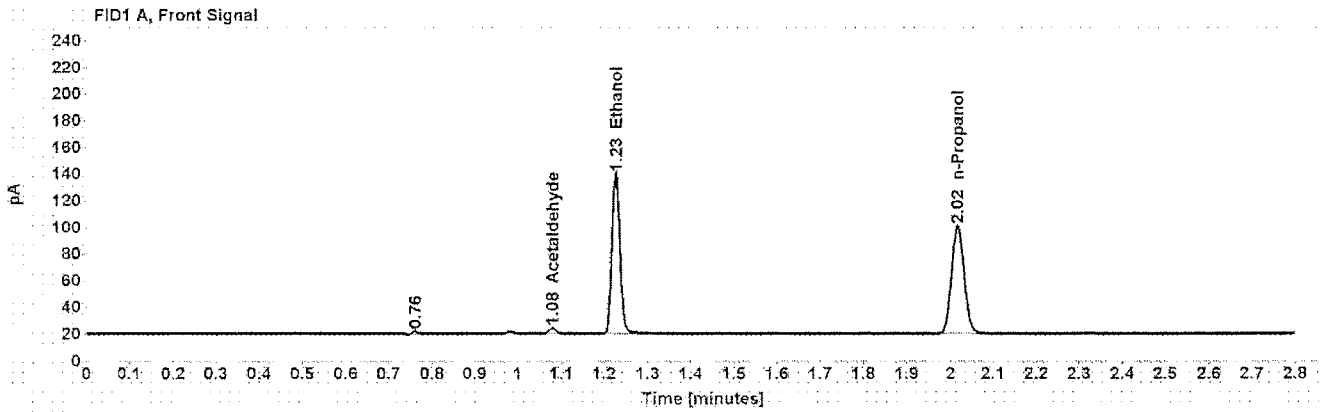


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.450
>Ethanol	0.2694	1.226	155.450
n-Propanol	-----	2.017	165.246

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.678
Ethanol	1.328	158.510
n-Propanol	2.345	168.604