

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 07/22/2016 SEQUENCE NAME 22Jul16

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 1.00000
 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	0.397g/dL	Lipomed 05012012-C
8	aqueous control	0.040 g/dL	0.039g/dL	Lipomed 30112011-B
9	blood control	0.200 g/dL	0.201g/dL	ACQ 402101060/6
20	aqueous control	0.080 g/dL	0.080g/dL	Lipomed 14112011-A
31	aqueous control	0.150 g/dL	0.150g/dL	Lipomed 11012012-C
42	aqueous control	0.400 g/dL	0.407g/dL	Lipomed 05012012-C
43	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
44	blood control	0.200 g/dL	0.203g/dL	ACQ 402101060/6
45	blank	Not detected	Not detected	SPD lab 110215

SUBJECT SAMPLES

Subjects in the sequence 15 Subjects requiring reanalysis 0

ADDITIONAL NOTES: All testing proceeded as expected.

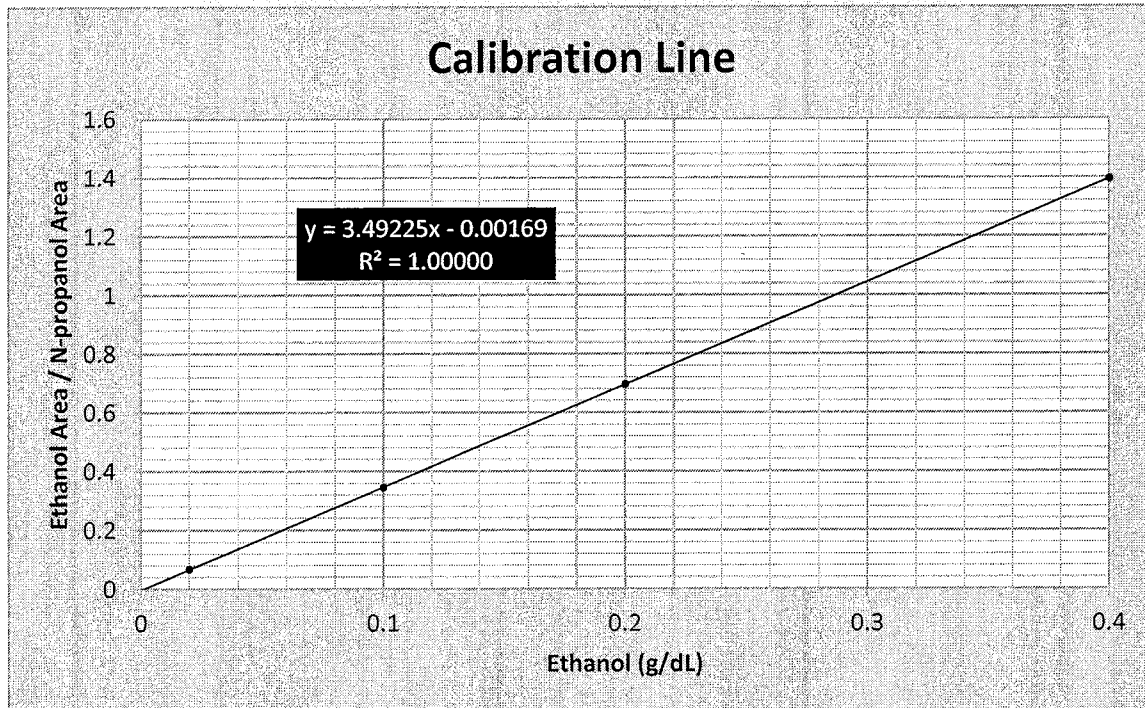
Run valid Run invalid Analyst
 Run valid Run invalid KOSBECK 7/25/16
 Technical Reviewer

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

SEQUENCE NAME: 22Jul16

Control	Vial	Expected Value (g/dL)	Measured Value (g/dL)	Percent Difference	Absolute Difference (g/dl)
1	5	negative	negative	-	-
2	6	0.400	0.397	0.75	-0.003
3	8	0.040	0.039	2.50	-0.001
4	9	0.200	0.201	0.50	0.001
5	20	0.080	0.080	0.00	0.000
6	31	0.150	0.150	0.00	0.000
7	42	0.400	0.407	1.75	0.007
8	43	0.040	0.040	0.00	0.000
9	44	0.200	0.203	1.50	0.003
10	45	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.071	160.436	0.069
0.100	54.690	158.071	0.346
0.200	108.515	155.584	0.697
0.400	220.549	158.077	1.395



Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.02 Cerilliant FN08101401	Item number: 1
Injection date: 7/22/2016 4:33:12 PM	Vial: 1
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\1.D	

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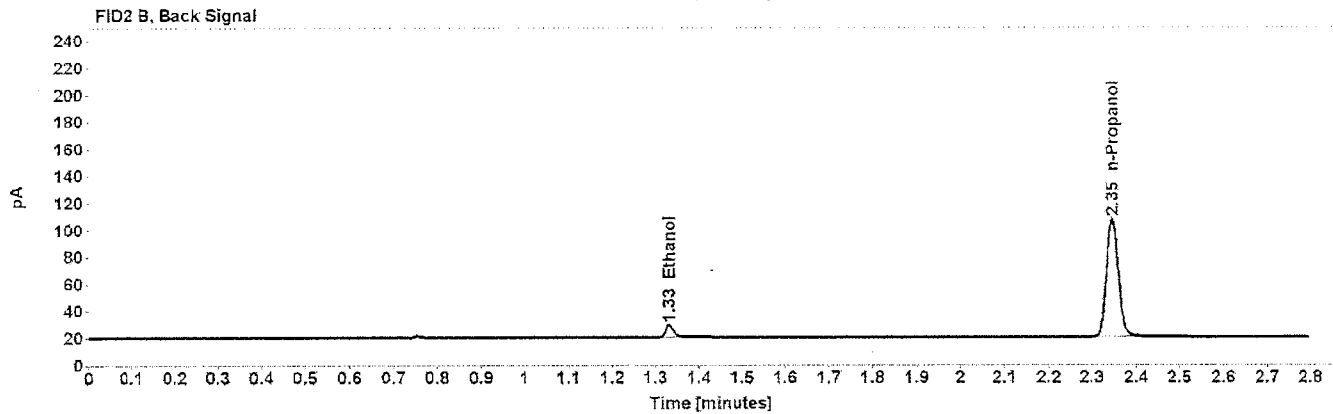
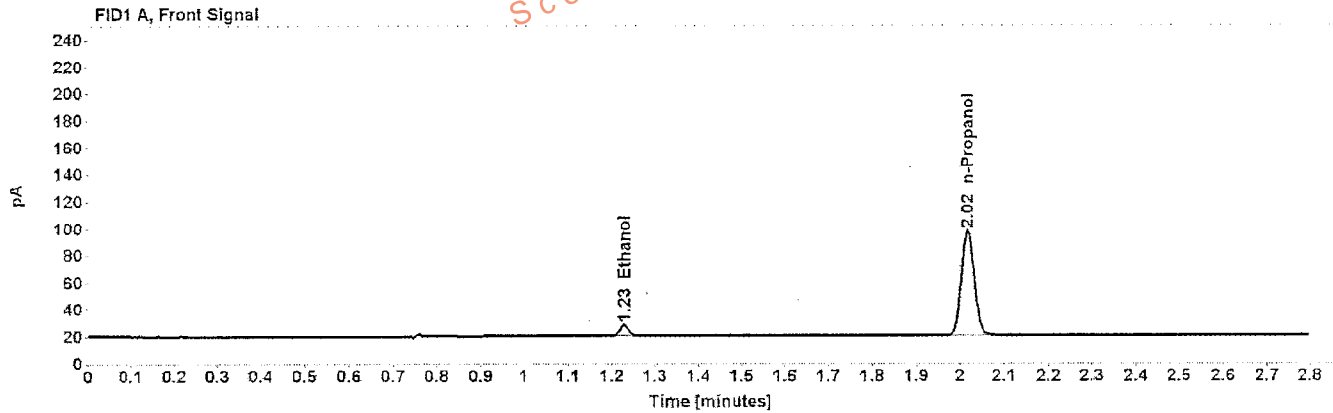


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.228	11.071
n-Propanol	2.017	160.436

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

Compound	Time (min)	Peak Area
Ethanol	1.331	11.043
n-Propanol	2.346	163.363

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.10 Cerilliant FN06181501	Item number:
Injection date: 7/22/2016 4:37:12 PM	Vial: 2
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem321\1\Data\22Jul16\2.D	

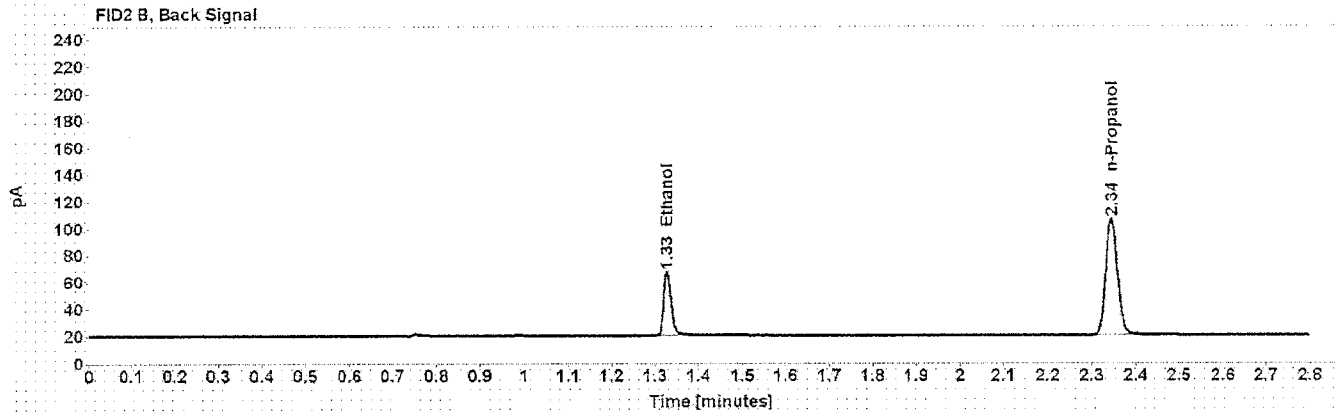
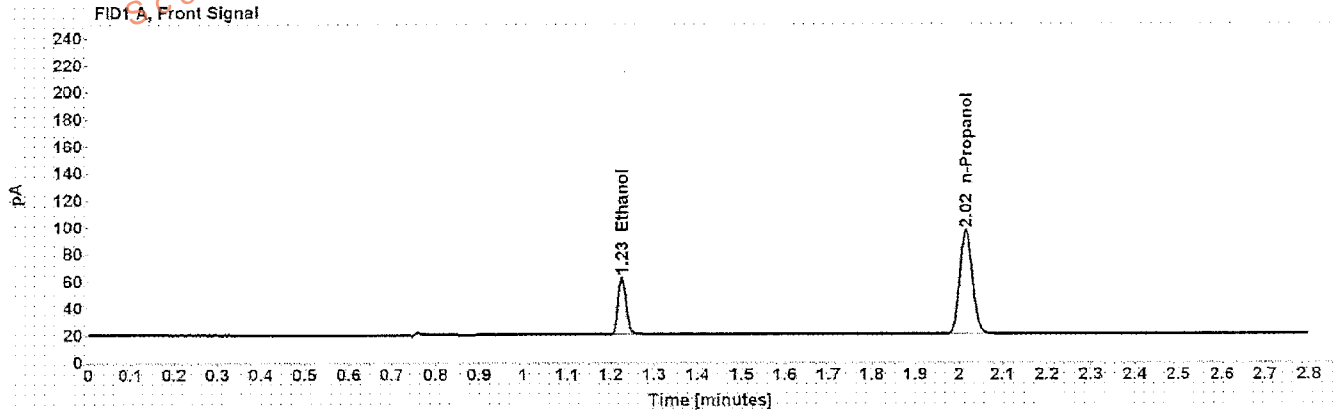


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.226	54.690
n-Propanol	2.016	158.071

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

Compound	Time (min)	Peak Area
Ethanol	1.328	55.404
n-Propanol	2.344	160.984

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 Cerilliant FN07201502	Item number:
Injection date: 7/22/2016 4:41:13 PM	Vial: 3
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\22Jul16\3.D	

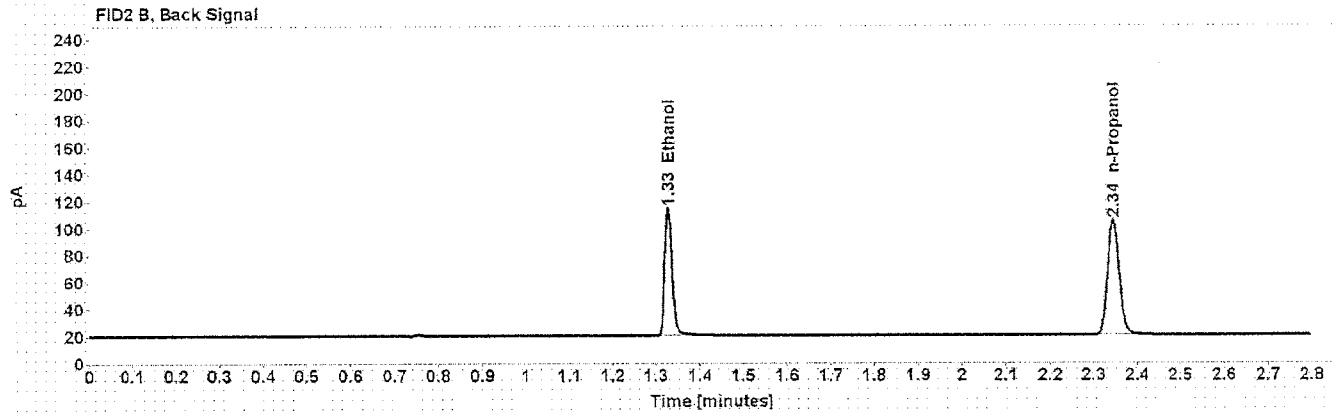
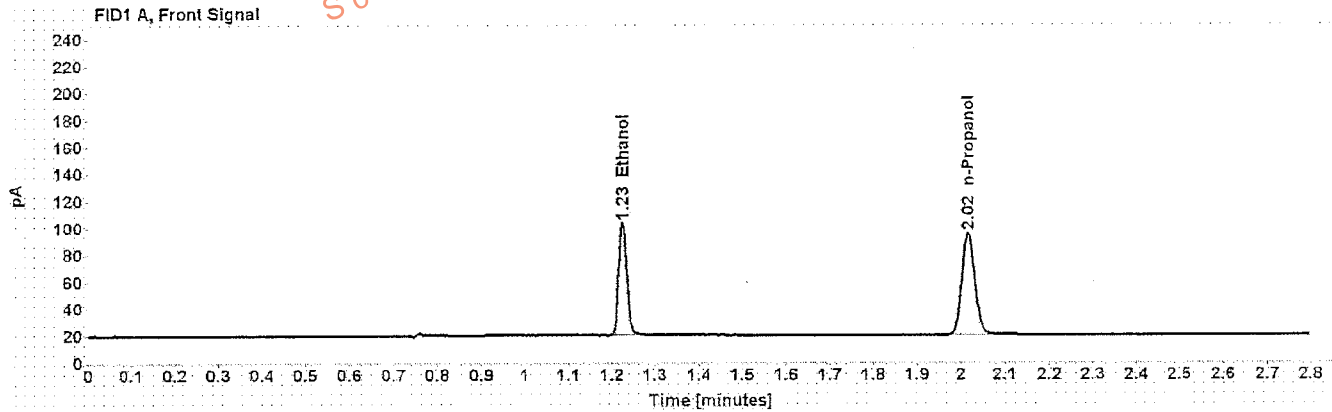


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.226	108.515
n-Propanol	2.017	155.584

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

Compound	Time (min)	Peak Area
Ethanol	1.328	110.357
n-Propanol	2.345	158.472

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Cerilliant FN11191402	Item number: 4
Injection date: 7/22/2016 4:45:12 PM	Vial: 4
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\4.D	

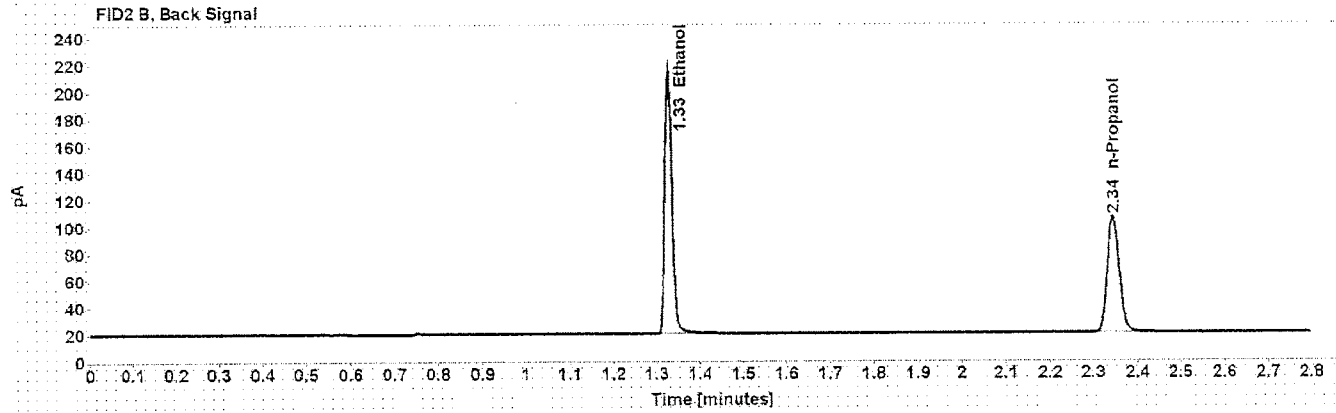
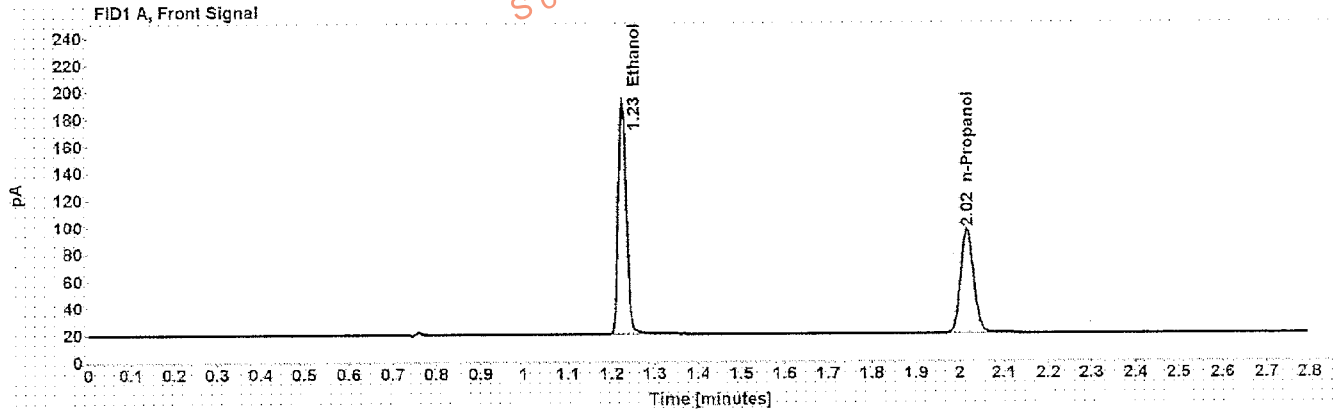


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.225	220.549
n-Propanol	2.016	158.077

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

Compound	Time (min)	Peak Area
Ethanol	1.327	225.600
n-Propanol	2.345	161.061

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number:
Injection date: 7/22/2016 4:49:13 PM	Vial: 5
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14473023 CN44160045	Analyst: Langan
Data file: C:\Chem3211\Data\22Jul16\5.D	

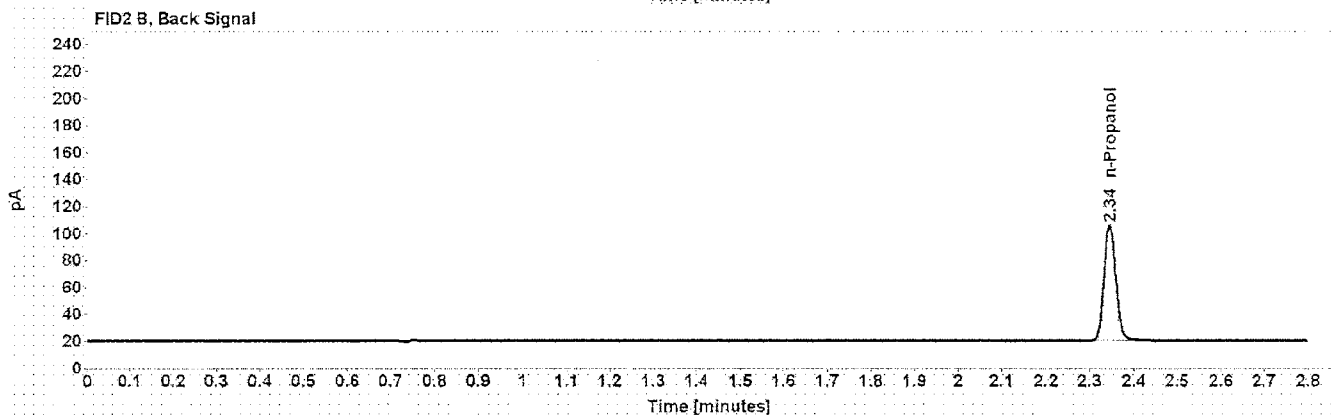
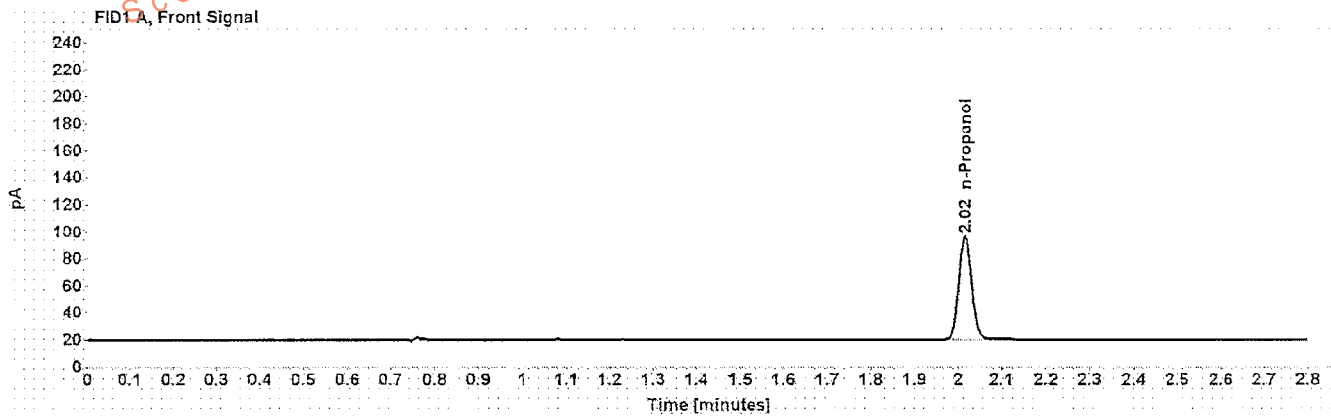


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	157.573

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

Compound	Time (min)	Peak Area
n-Propanol	2.345	160.235

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: volatiles mix 030916 ASL	Item number:
Injection date: 7/22/2016 4:53:12 PM	Vial: 6
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem\3211\Data\22Jul16\6.D	

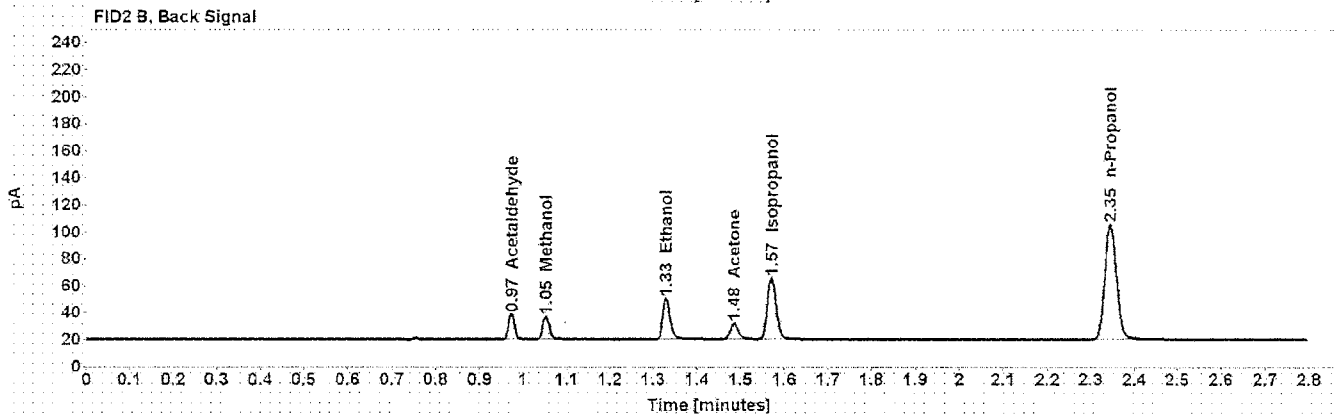
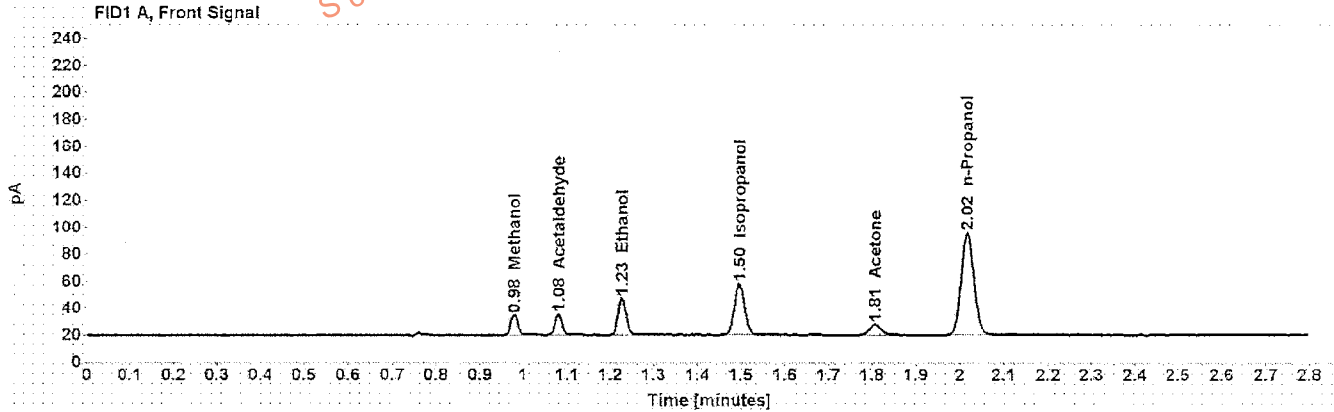


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.978	17.164
Acetaldehyde	-----	1.080	17.151
>Ethanol	0.0651	1.227	35.265
Isopropanol	-----	1.496	63.175
Acetone	-----	1.807	14.644
n-Propanol	-----	2.017	156.391

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	17.764
Methanol	1.052	17.423
Ethanol	1.329	35.646
Acetone	1.485	14.710
Isopropanol	1.571	64.115
n-Propanol	2.345	159.486

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number: 7
Injection date: 7/22/2016 4:57:28 PM	Vial: 7
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\7.D	

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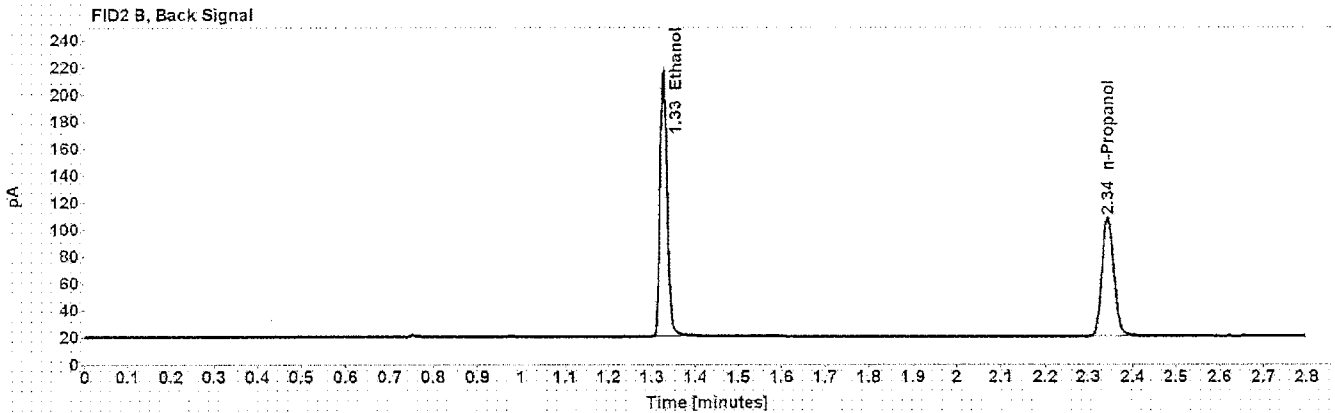
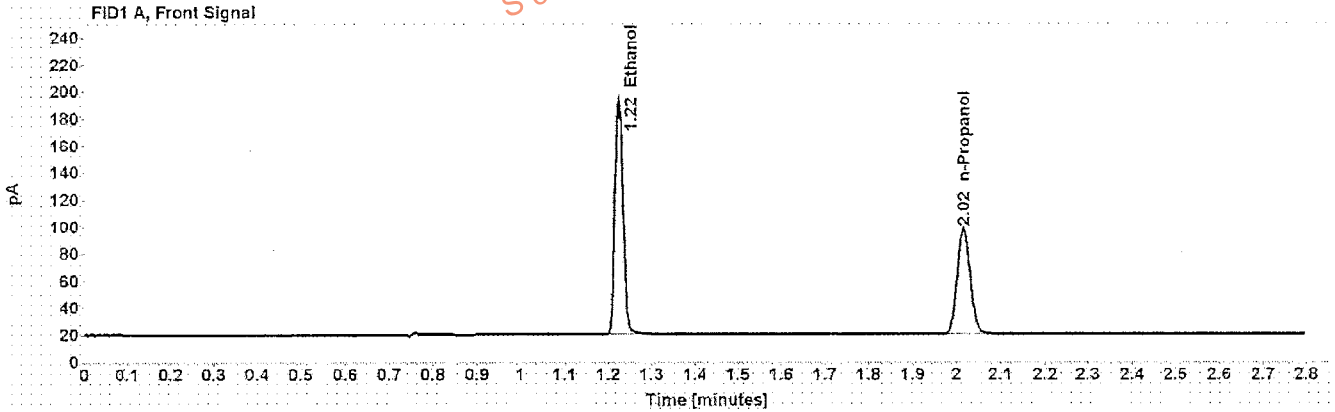


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3973	1.225	223.755
n-Propanol	-----	2.016	161.451

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

Compound	Time (min)	Peak Area
Ethanol	1.326	228.918
n-Propanol	2.344	164.383

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B	Item number:
Injection date: 7/22/2016 5:01:27 PM	Vial: 8
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\22Jul16\8.D	

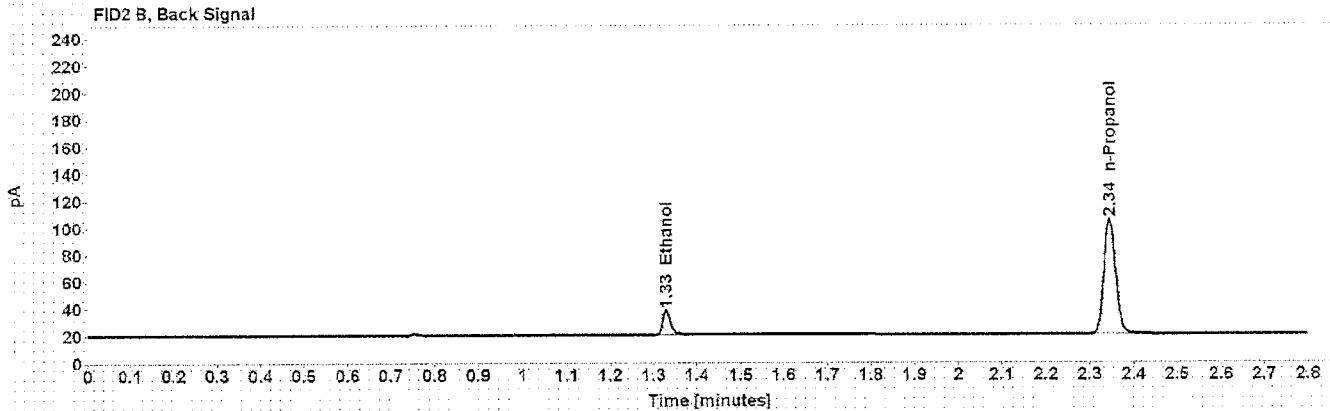
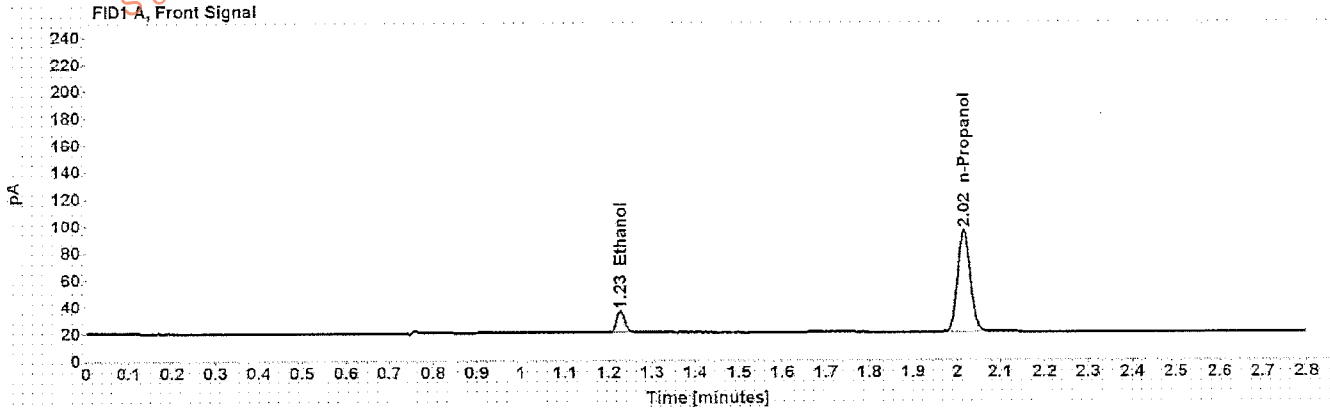


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0395	1.227	21.239
n-Propanol	-----	2.017	155.697

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

Compound	Time (min)	Peak Area
Ethanol	1.329	21.373
n-Propanol	2.345	158.532

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.20 ACQ 402101060/6	Item number:	
Injection date:	7/22/2016 5:05:28 PM	Vial:	9
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem\3211\Data\22Jul16\9.D		

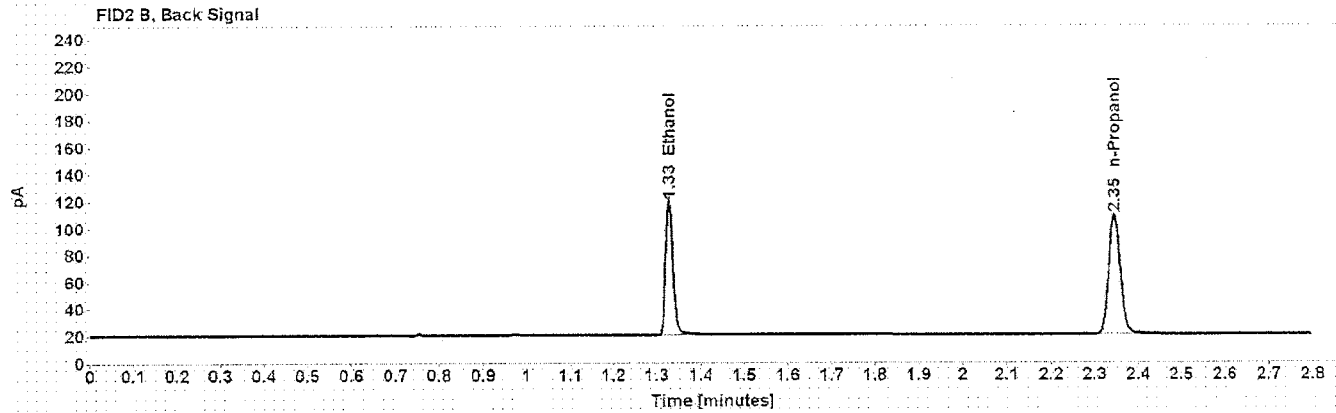
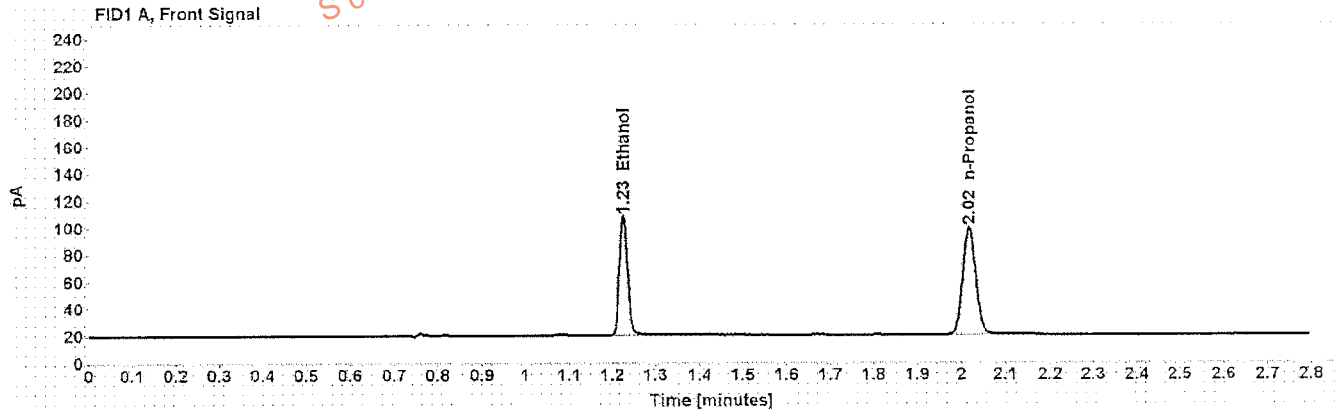


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2018	1.226	114.182
n-Propanol	-----	2.017	162.409

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

Compound	Time (min)	Peak Area
Ethanol	1.328	115.995
n-Propanol	2.346	165.662

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.080 Lipomed 14112011-A	Item number: 20
Injection date: 7/22/2016 5:49:59 PM	Vial: 20
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\20.D	

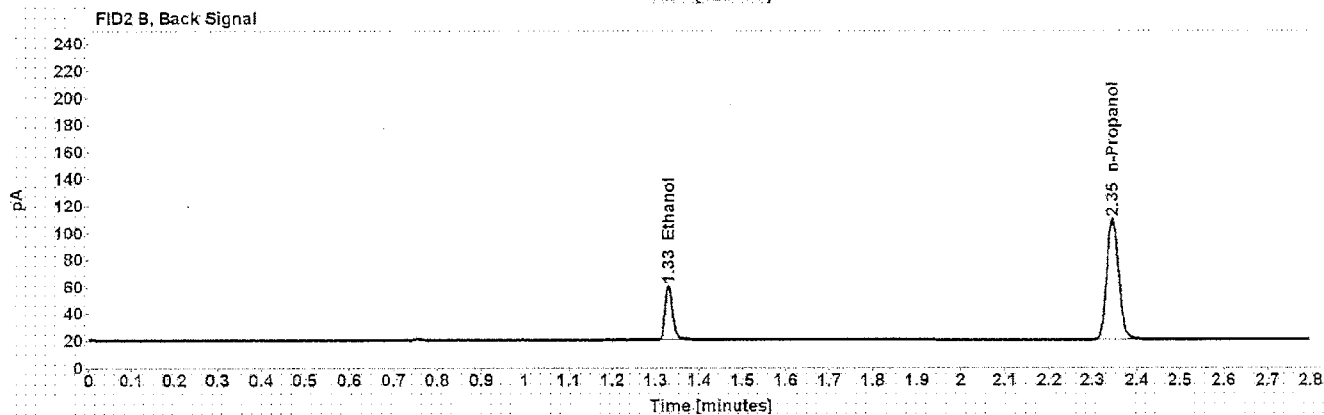
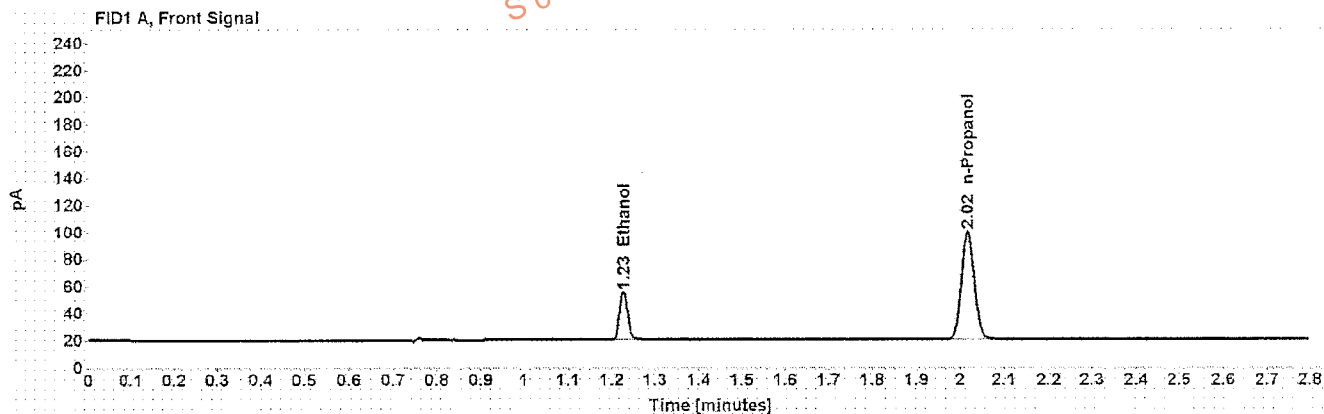


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0809	1.227	46.186
n-Propanol	-----	2.017	164.507

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

Compound	Time (min)	Peak Area
Ethanol	1.330	46.809
n-Propanol	2.346	167.530

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.150 Lipomed 11012012-C	Item number:
Injection date: 7/22/2016 6:34:28 PM	Vial: 31
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\31.D	

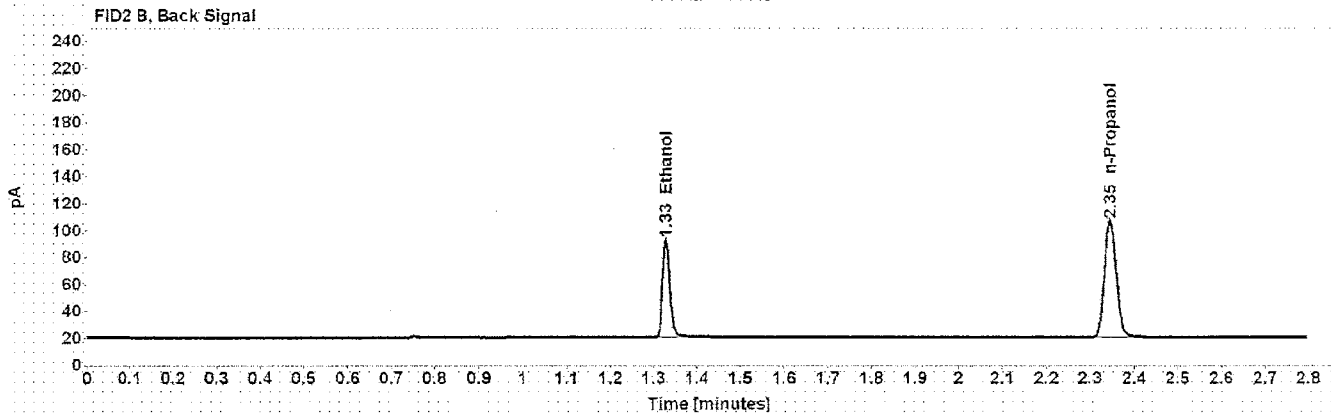
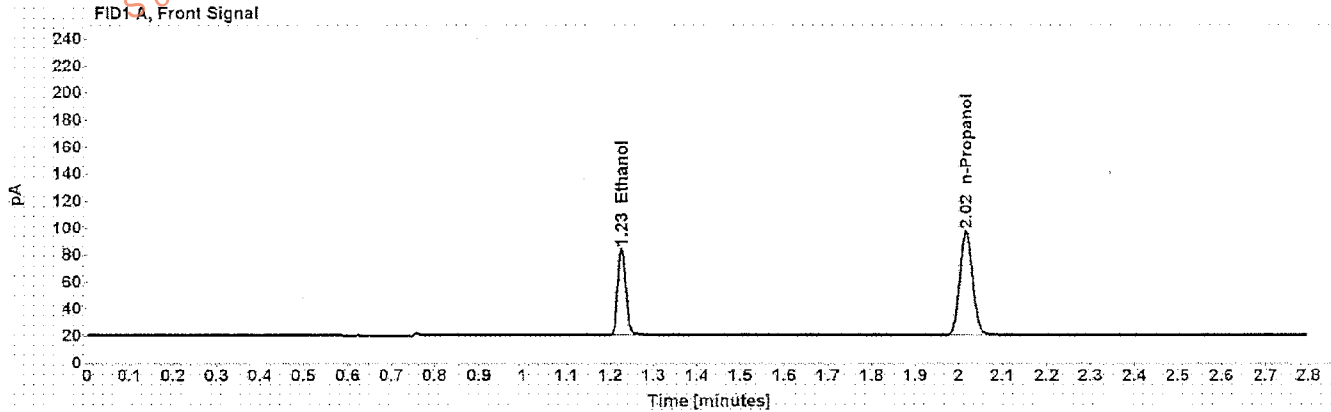


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1502	1.226	83.227
n-Propanol	-----	2.017	159.142

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

Compound	Time (min)	Peak Area
Ethanol	1.326	84.757
n-Propanol	2.345	161.840

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number:
Injection date: 7/22/2016 7:18:43 PM	Vial: 42
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11Data\22Jul16\42.D	

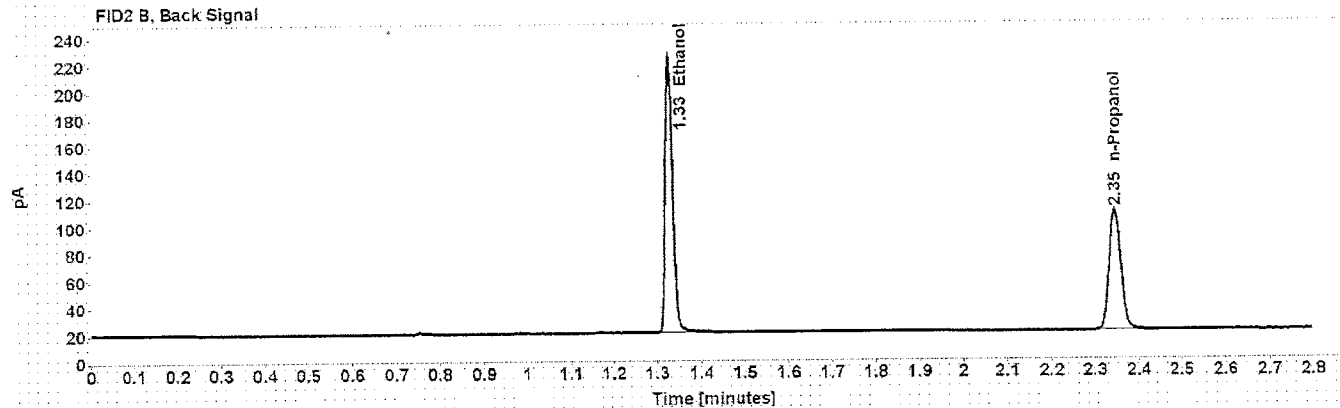
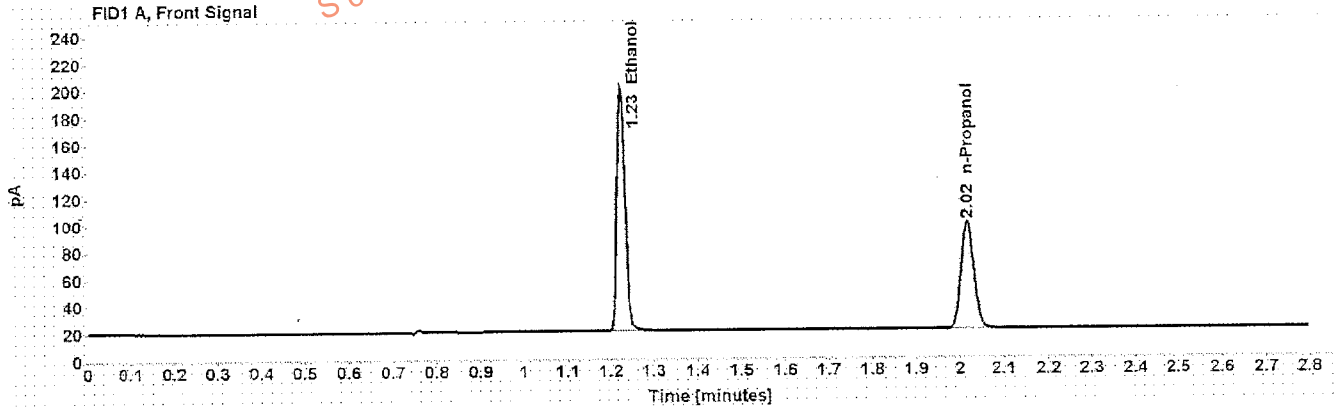


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4074	1.225	232.766
n-Propanol	-----	2.017	163.815

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

Compound	Time (min)	Peak Area
Ethanol	1.327	237.688
n-Propanol	2.345	166.689

Scottsdale Police Department Crime Lab Volatiles Analysis

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Sample: 0.04 Lipomed 30112011-B	Item number: 43
Injection date: 7/22/2016 7:22:58 PM	Vial: 43
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11Data\22Jul16\43.D	

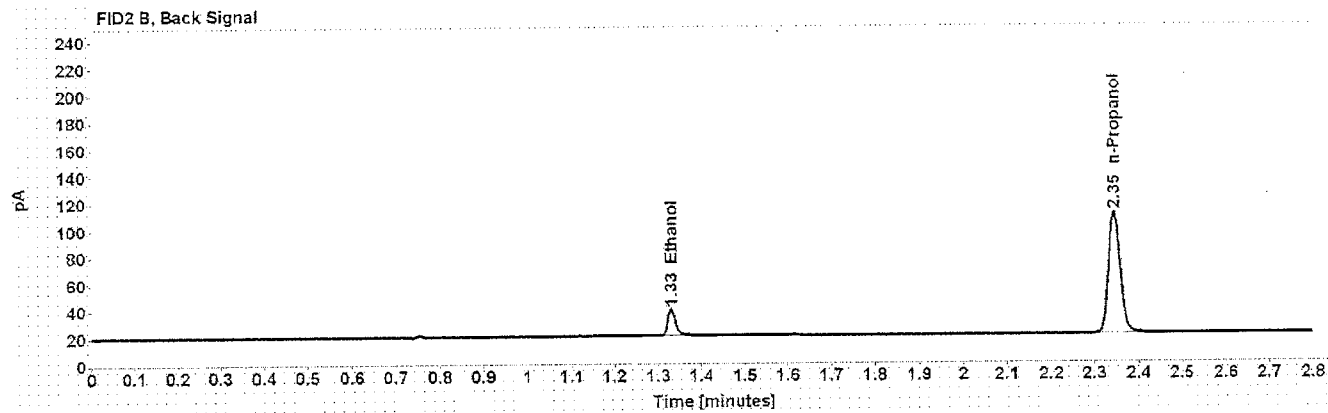
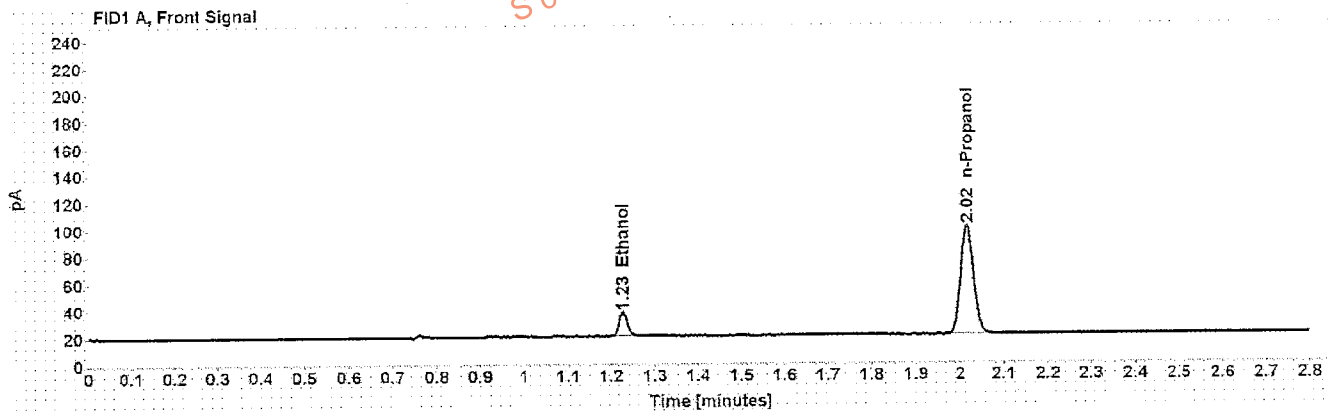


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0404	1.227	23.051
n-Propanol	-----	2.017	165.287

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

Compound	Time (min)	Peak Area
Ethanol	1.330	23.231
n-Propanol	2.346	168.019

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 7/22/2016 7:26:58 PM	Vial: 44
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN44160045	Analyst: Langan
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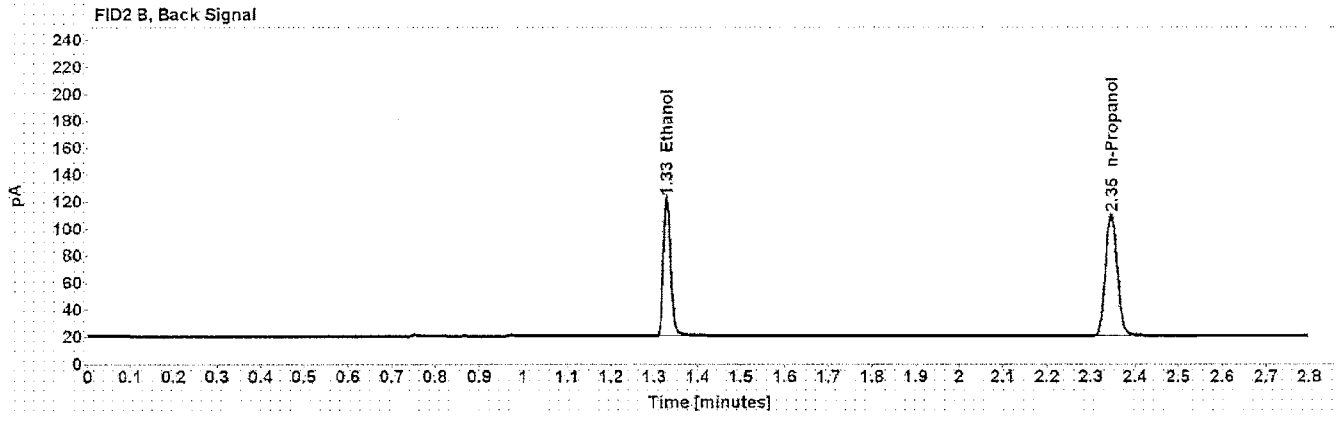
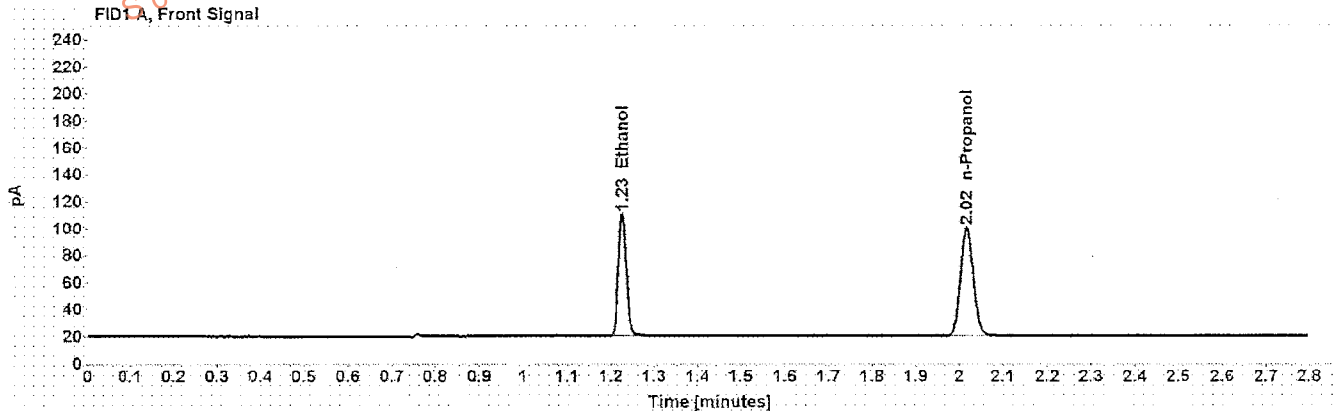


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2034	1.226	117.139
n-Propanol	-----	2.017	165.270

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

Compound	Time (min)	Peak Area
Ethanol	1.328	119.117
n-Propanol	2.346	168.512

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number:
Injection date: 7/22/2016 7:30:58 PM	Vial: 45
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem\3211\Data\22Jul16\45.D	

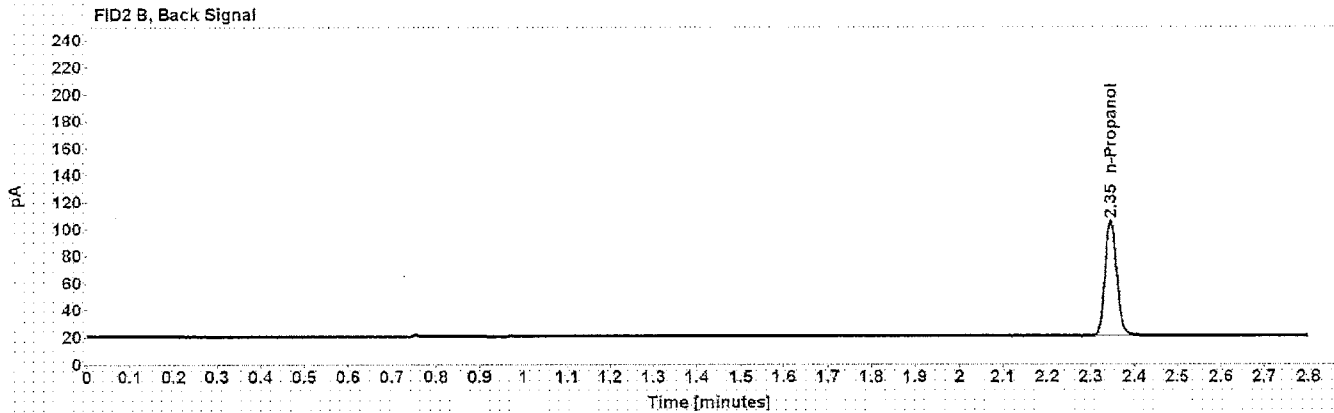
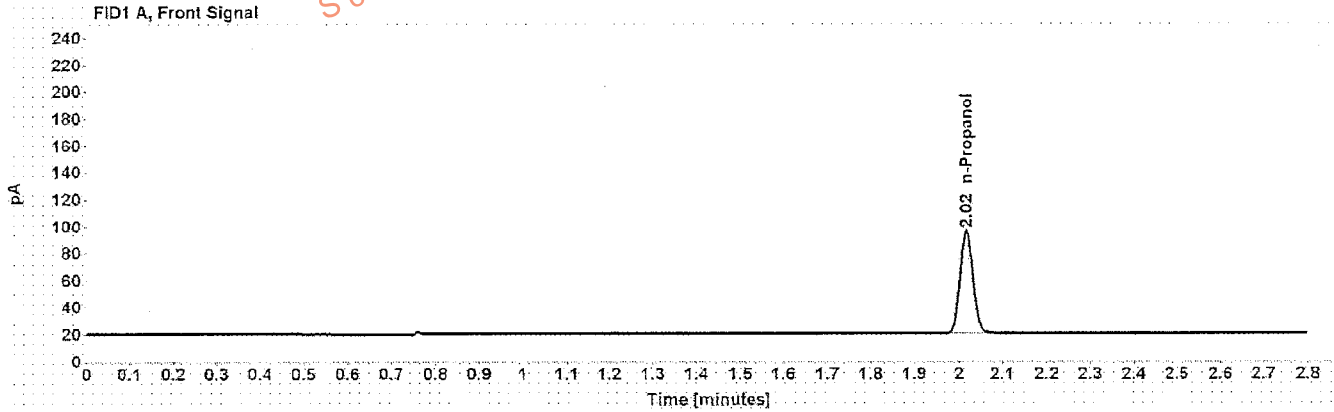


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	156.655

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

Compound	Time (min)	Peak Area
n-Propanol	2.346	159.557

Sequence Summary

Sequence name: 22Jul16 Instrument: US14173023 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	710556	ethanol quant.M
11		Sample	710556	ethanol quant.M
12		Sample	1076742	ethanol quant.M
13		Sample	1076742	ethanol quant.M
14		Sample	1060892	ethanol quant.M
15		Sample	1060892	ethanol quant.M
16		Sample	1100798	ethanol quant.M
17		Sample	1100798	ethanol quant.M
18		Sample	1100851	ethanol quant.M
19		Sample	1100851	ethanol quant.M
20	0.080 Lipomed 14112011-A	Control		ethanol quant.M
21		Sample	1099802	ethanol quant.M
22		Sample	1099802	ethanol quant.M
23		Sample	1101188	ethanol quant.M
24		Sample	1101188	ethanol quant.M
25		Sample	1101949	ethanol quant.M
26		Sample	1101949	ethanol quant.M
27		Sample	1098994	ethanol quant.M
28		Sample	1098994	ethanol quant.M
29		Sample	1098629	ethanol quant.M
30		Sample	1098629	ethanol quant.M
31	0.150 Lipomed 11012012-C	Control		ethanol quant.M
32		Sample	1098858	ethanol quant.M
33		Sample	1098858	ethanol quant.M
34		Sample	1099975	ethanol quant.M
35		Sample	1099975	ethanol quant.M
36		Sample	1098382	ethanol quant.M
37		Sample	1098382	ethanol quant.M
38		Sample	1099210	ethanol quant.M
39		Sample	1099210	ethanol quant.M
40		Sample	1074704	ethanol quant.M
41		Sample	1074704	ethanol quant.M
42	0.40 Lipomed 05012012-C	Control		ethanol quant.M
43	0.04 Lipomed 30112011-B	Control		ethanol quant.M
44	0.20 ACQ 402101060/6	Control		ethanol quant.M
45	blank 110215	Control		ethanol quant.M

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SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
SEQUENCE SUMMARY OF CASES

SEQUENCE NAME: 22Jul16

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1109	0.1105	0.11070	0.18	0.00020
12 13	0.1033	0.1037	0.10350	0.19	0.00020
14 15	0.1189	0.1180	0.11845	0.38	0.00045
16 17	0.1186	0.1198	0.11920	0.50	0.00060
18 19	0.0929	0.0934	0.09315	0.27	0.00025
21 22	0.1458	0.1448	0.14530	0.34	0.00050
23 24	0.1692	0.1704	0.16980	0.35	0.00060
25 26	0.2567	0.2545	0.25560	0.43	0.00110
27 28	0.2054	0.2040	0.20470	0.34	0.00070
29 30	0.1749	0.1761	0.17550	0.34	0.00060
32 33	0.2355	0.2359	0.23570	0.08	0.00020
34 35	0.1746	0.1760	0.17530	0.40	0.00070
36 37	0.1363	0.1331	0.13470	1.19	0.00160
38 39	0.1397	0.1396	0.13965	0.04	0.00005
40 41	0.1266	0.1258	0.12620	0.32	0.00040

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	710556
Injection date:	7/22/2016 5:09:27 PM	Vial:	10
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem321\1Data\22Jul16\10.D		

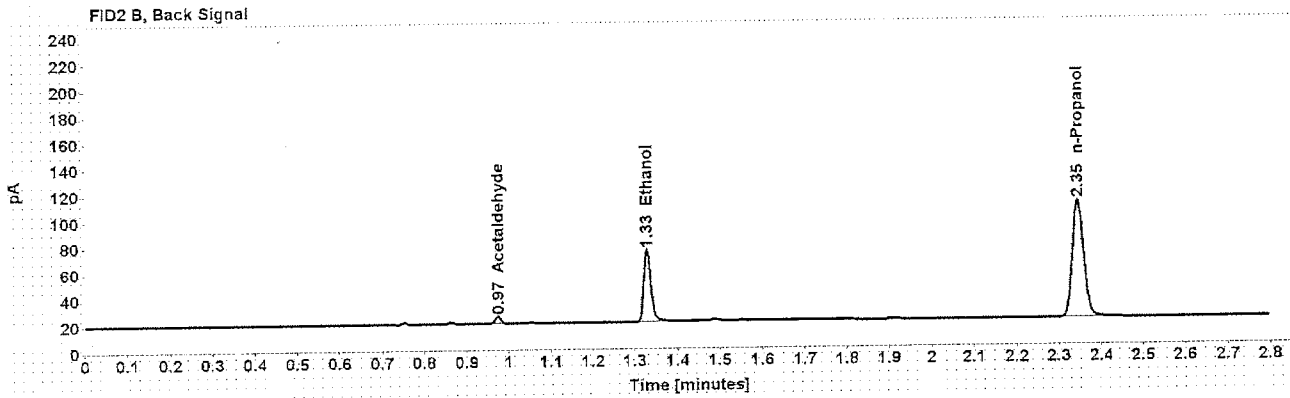
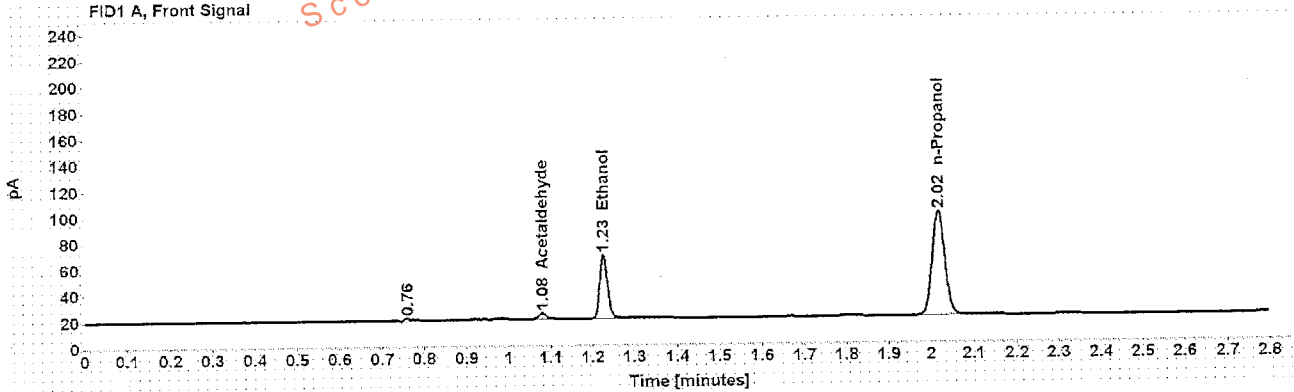


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.756
>Ethanol	0.1109	1.227	63.213
n-Propanol	-----	2.017	163.960

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	4.942
Ethanol	1.329	64.093
n-Propanol	2.345	167.506

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 710556
 Injection date: 7/22/2016 5:13:27 PM Vial: 11
 Method: ethanol quant.M Sequence: 22Jul16
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\22Jul16\11.D

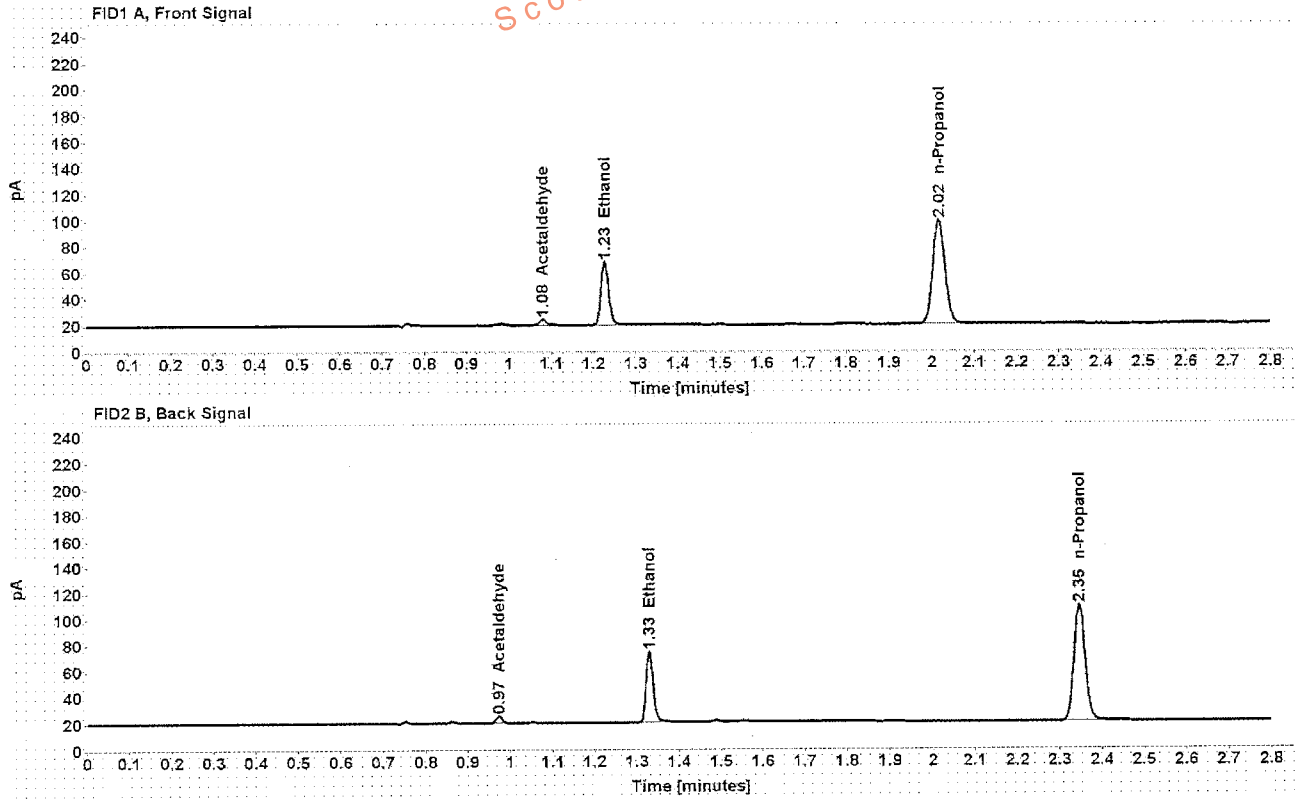


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.737
>Ethanol	0.1105	1.227	62.255
n-Propanol	-----	2.017	162.094

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.868
Ethanol	1.329	63.221
n-Propanol	2.346	165.748

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1076742
Injection date: 7/22/2016 5:17:28 PM	Vial: 12
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\12.D	

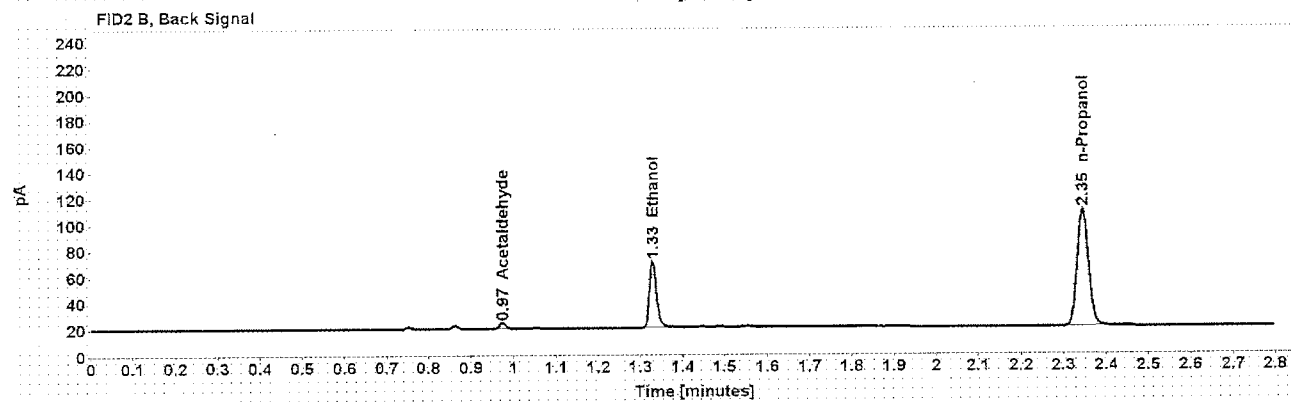
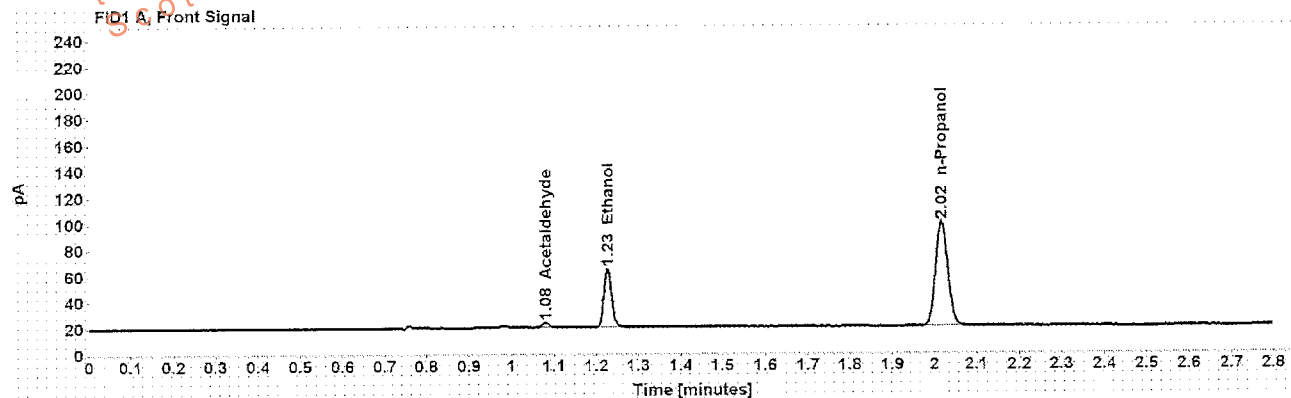


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.988
>Ethanol	0.1033	1.227	58.453
n-Propanol	-----	2.017	162.773

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.198
Ethanol	1.329	59.483
n-Propanol	2.345	166.590

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1076742
Injection date:	7/22/2016 5:21:42 PM	Vial:	13
Method:	ethanol quant M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\22Jul16\13.D		

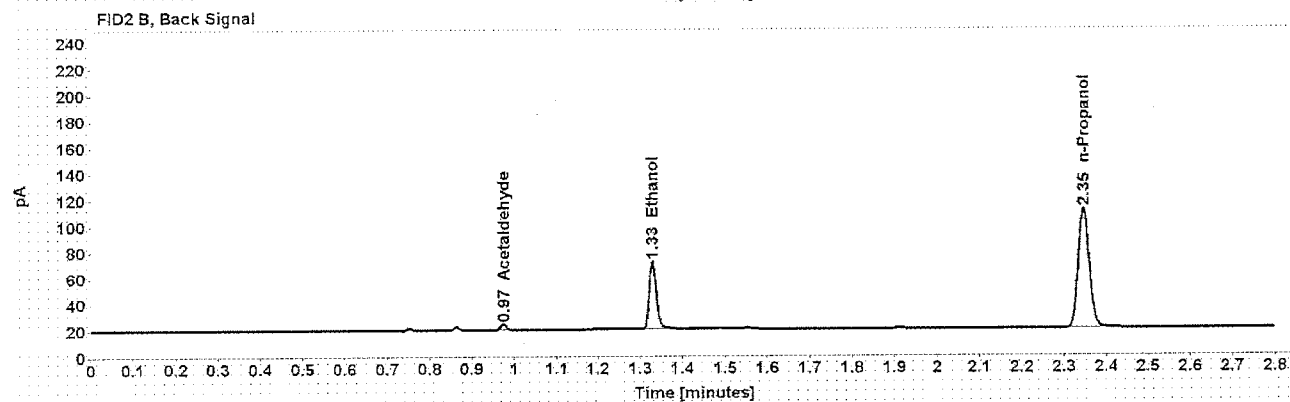
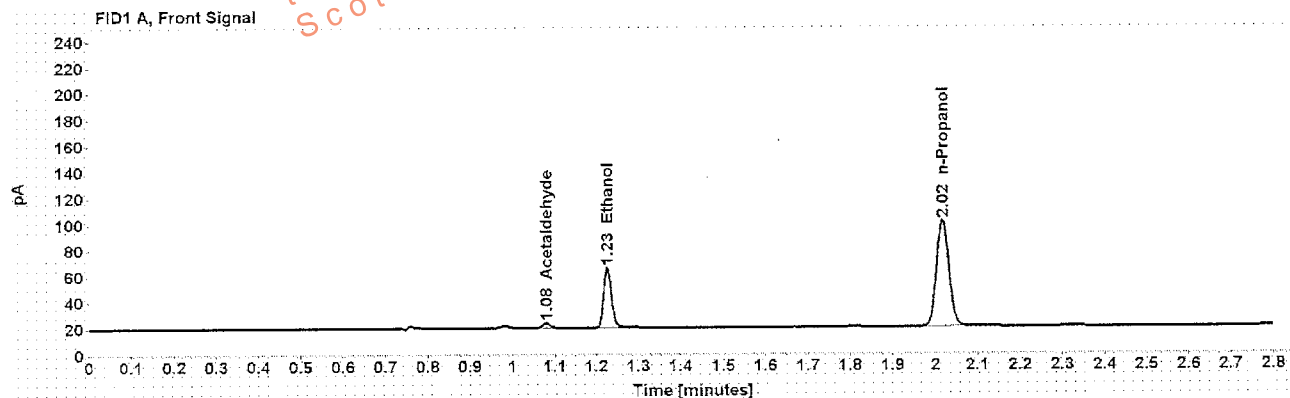


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.002
>Ethanol	0.1037	1.227	59.831
n-Propanol	-----	2.017	166.020

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.173
Ethanol	1.329	60.886
n-Propanol	2.346	169.700

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1060892
Injection date: 7/22/2016 5:25:43 PM	Vial: 14
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\14.D	

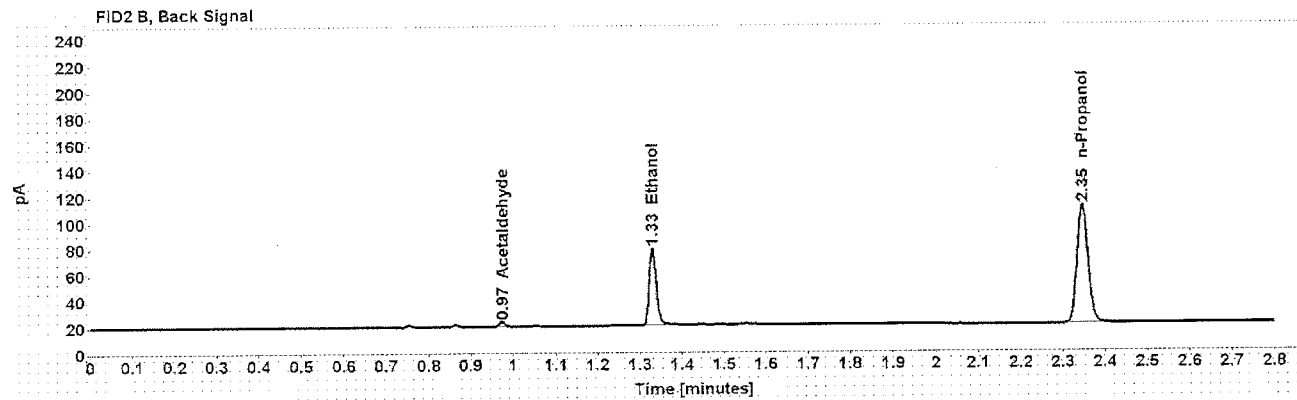
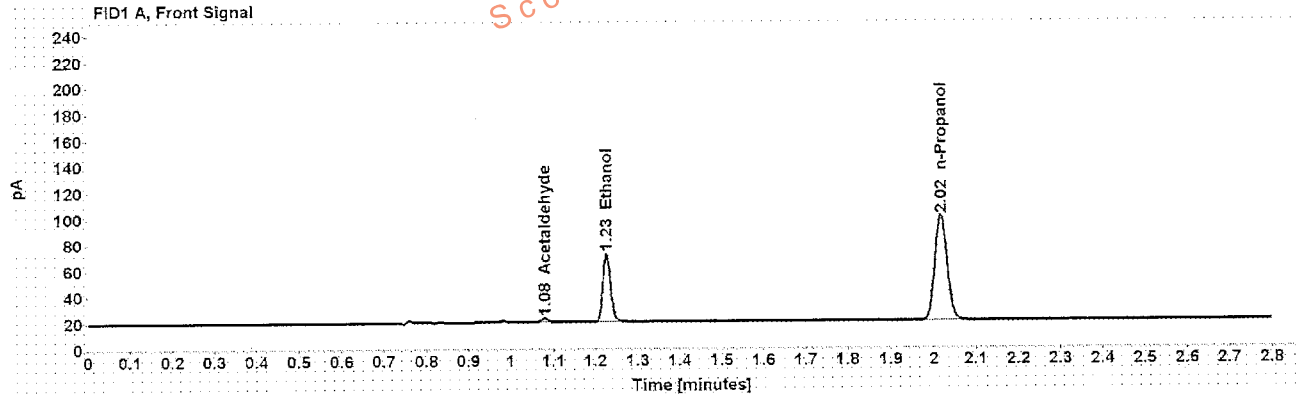


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.130
>Ethanol	0.1189	1.227	67.984
n-Propanol	-----	2.017	164.405

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.256
Ethanol	1.329	69.958
n-Propanol	2.346	168.015

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1060892
Injection date: 7/22/2016 5:29:42 PM	Vial: 15
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\15.D	

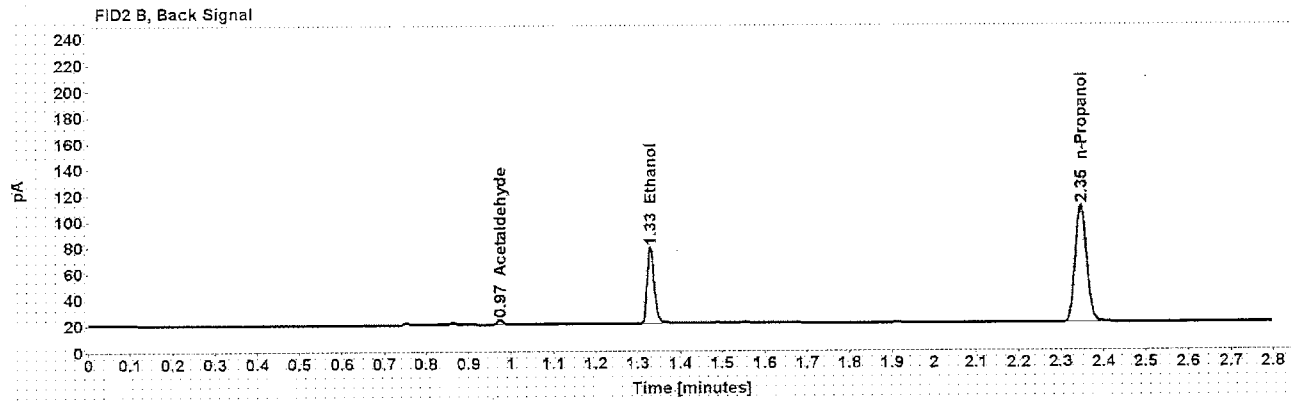
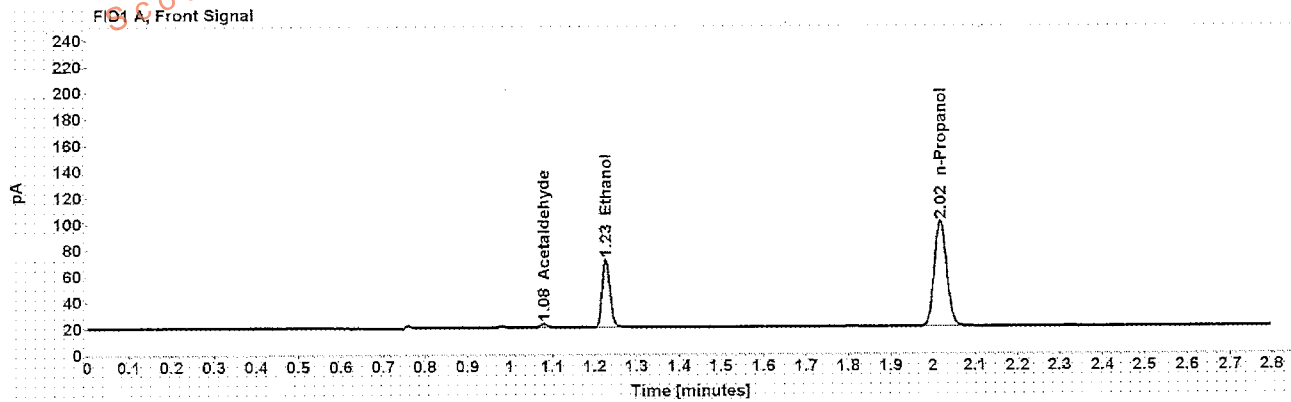


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.151
>Ethanol	0.1180	1.227	67.265
n-Propanol	-----	2.017	163.900

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.265
Ethanol	1.329	68.337
n-Propanol	2.346	167.475

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1100798
 Injection date: 7/22/2016 5:33:44 PM Vial: 16
 Method: ethanol quant.M Sequence: 22Jul16
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\22Jul16\16.D

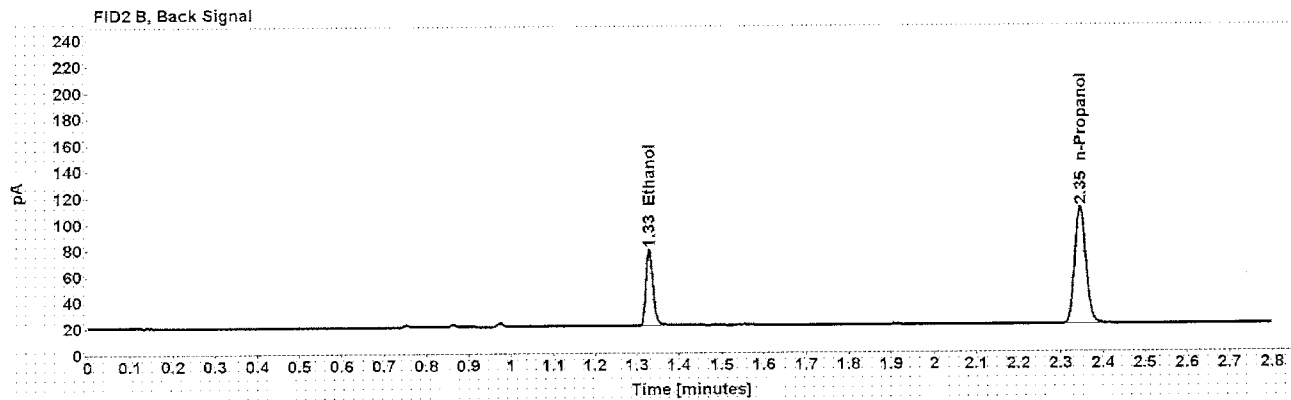
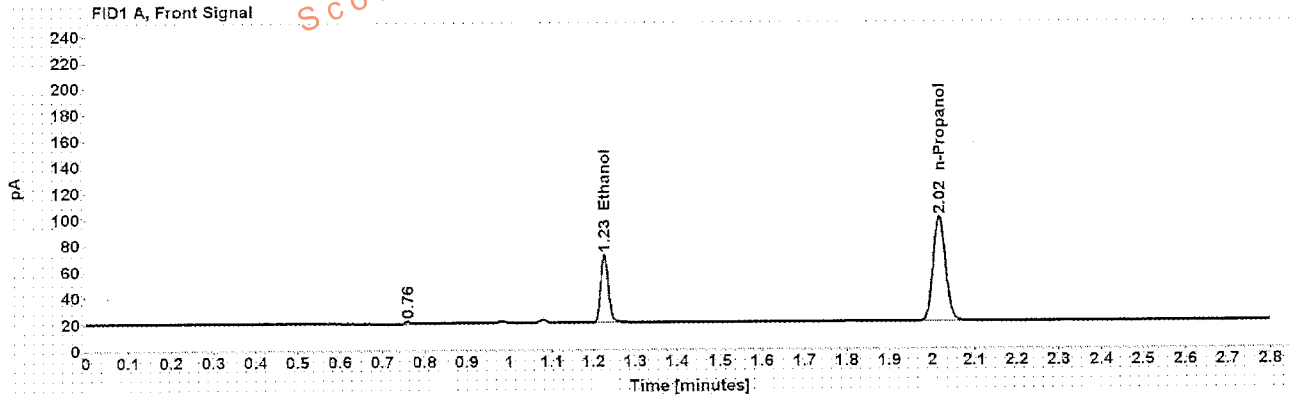


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1186	1.227	67.236
n-Propanol	-----	2.017	163.012

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

Compound	Time (min)	Peak Area
Ethanol	1.329	68.196
n-Propanol	2.346	166.728

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX **Item number:** 1100798
Injection date: 7/22/2016 5:37:42 PM **Vial:** 17
Method: ethanol quant.M **Sequence:** 22Jul16
Instrument: US14173023 CN14160045 **Analyst:** Langan
Data file: C:\Chem32\11\Data\22Jul16\17.D

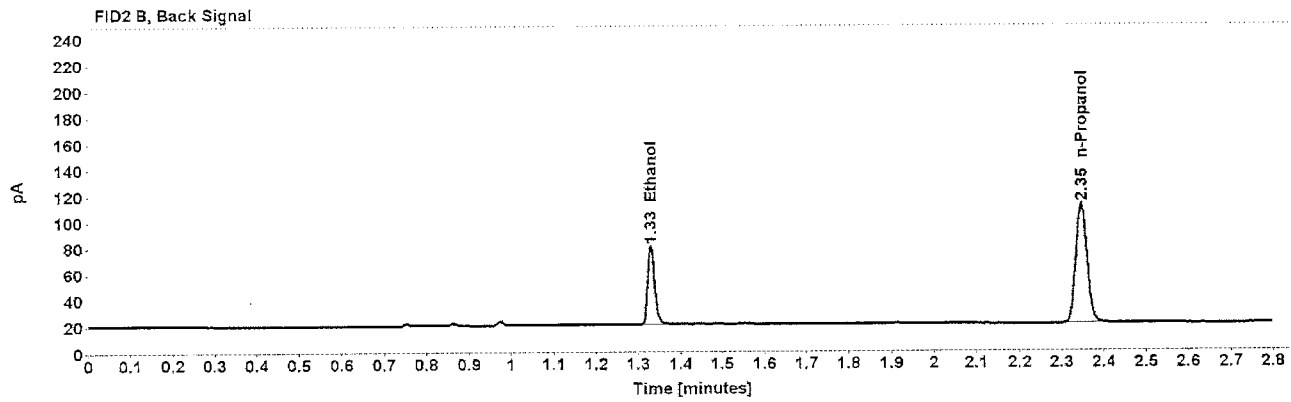
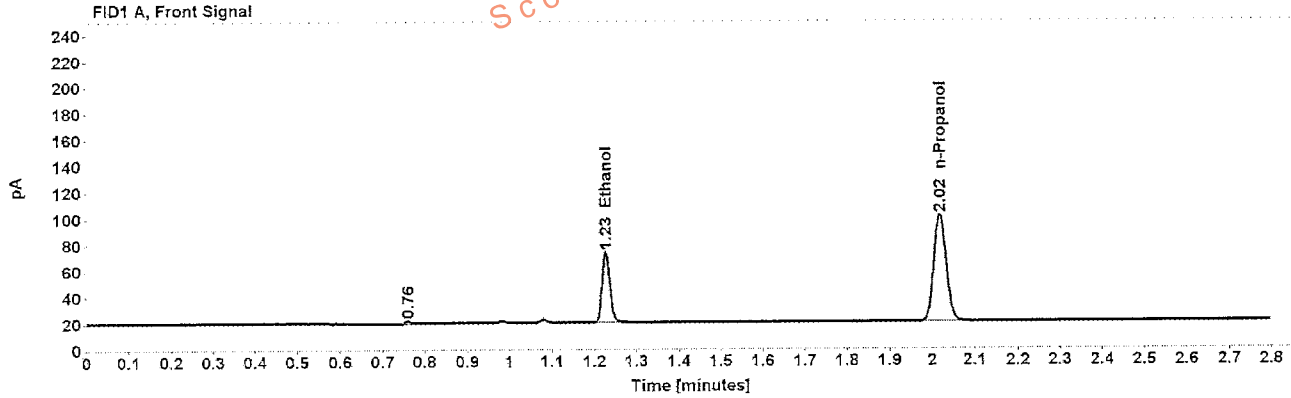


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1198	1.227	69.274
n-Propanol	-----	2.017	166.230

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

Compound	Time (min)	Peak Area
Ethanol	1.330	70.493
n-Propanol	2.346	169.723

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1100851
Injection date:	7/22/2016 5:41:44 PM	Vial:	18
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\22Jul16\18.D		

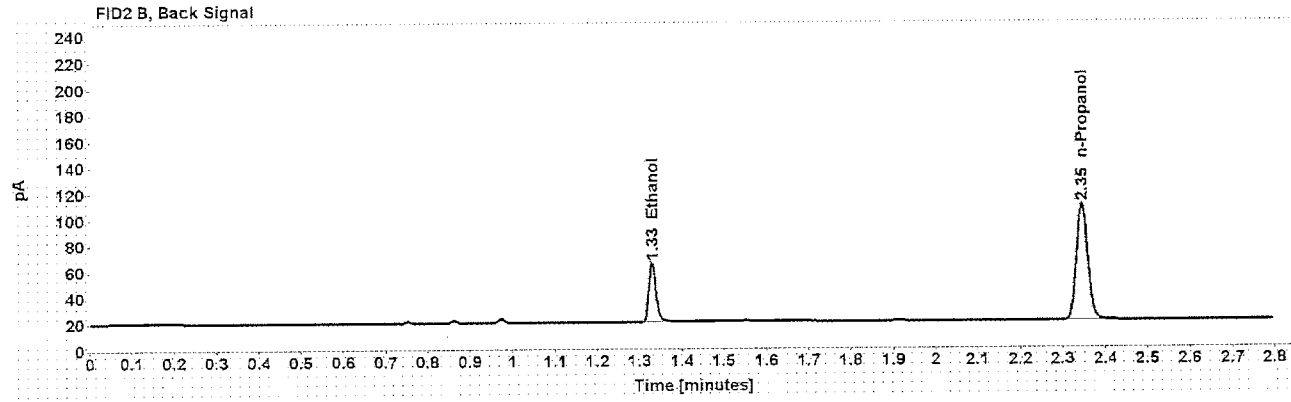
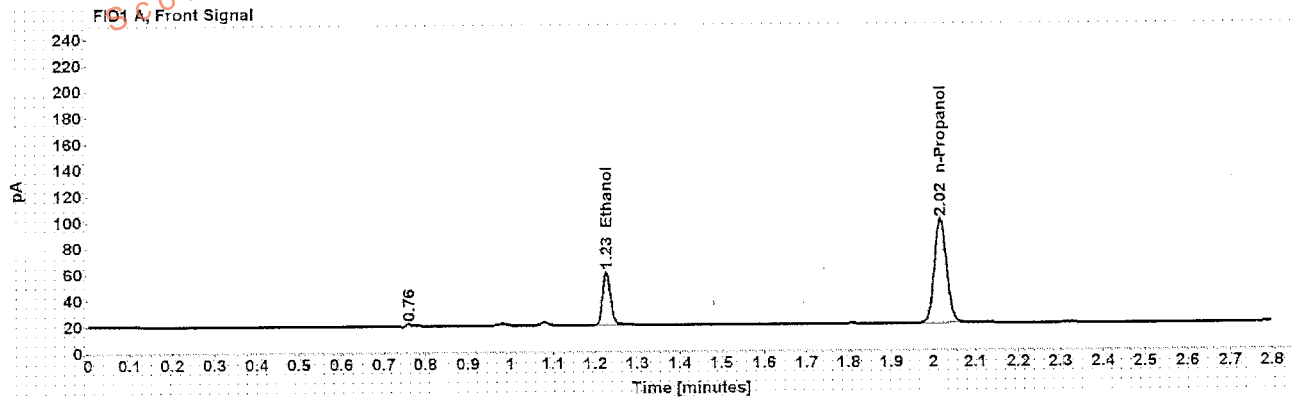


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0929	1.227	52.675
n-Propanol	-----	2.017	163.233

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

Compound	Time (min)	Peak Area
Ethanol	1.329	53.266
n-Propanol	2.345	166.374

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1100851
Injection date: 7/22/2016 5:45:57 PM	Vial: 19
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023.CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\19.D	

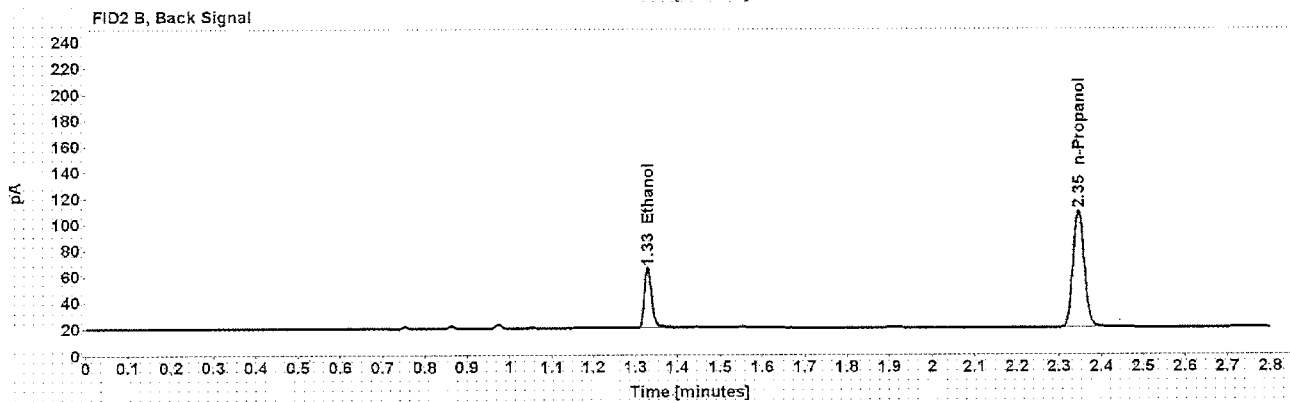
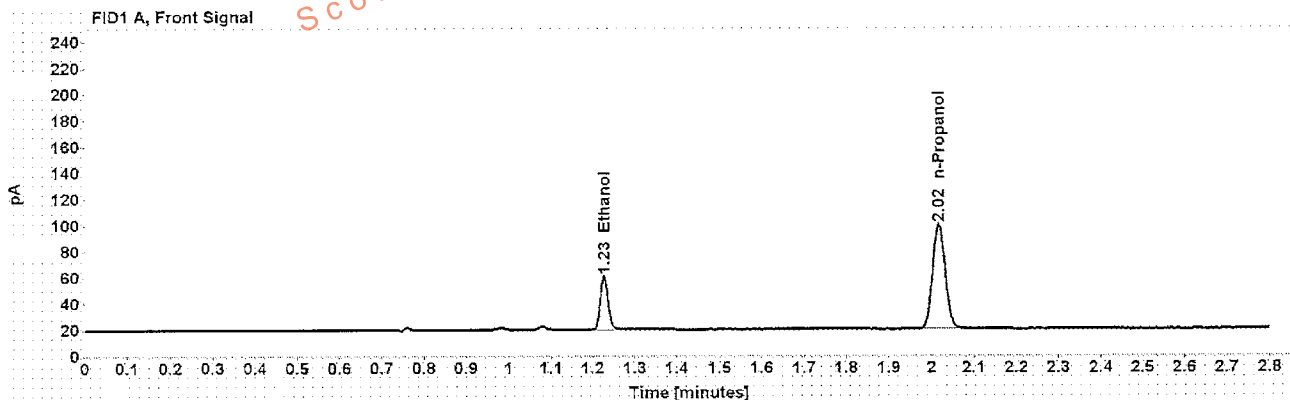


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0934	1.227	52.805
n-Propanol	-----	2.017	162.804

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

Compound	Time (min)	Peak Area
Ethanol	1.329	53.641
n-Propanol	2.345	166.534

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1099802
 Injection date: 7/22/2016 5:53:58 PM Vial: 21
 Method: ethanol quant.M Sequence: 22Jul16
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\22Jul16\21.D

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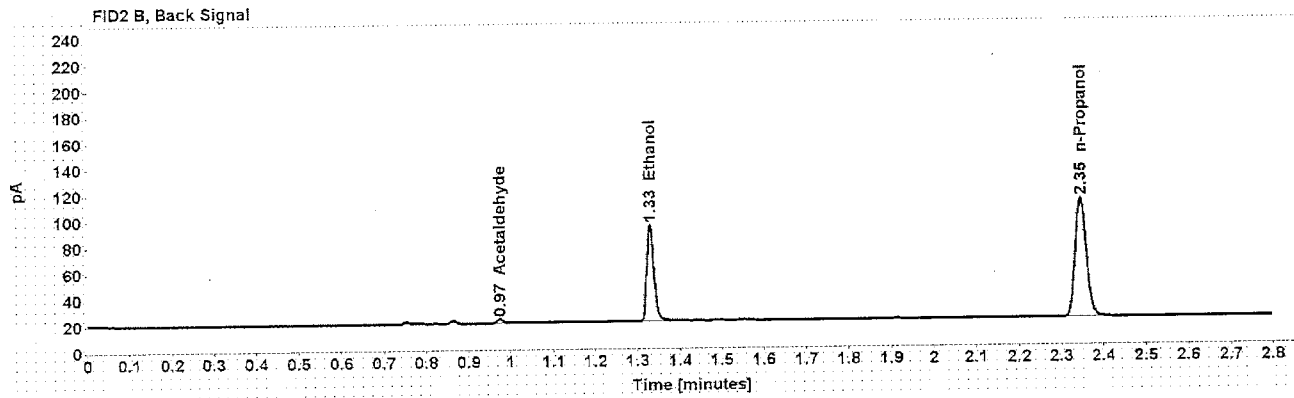
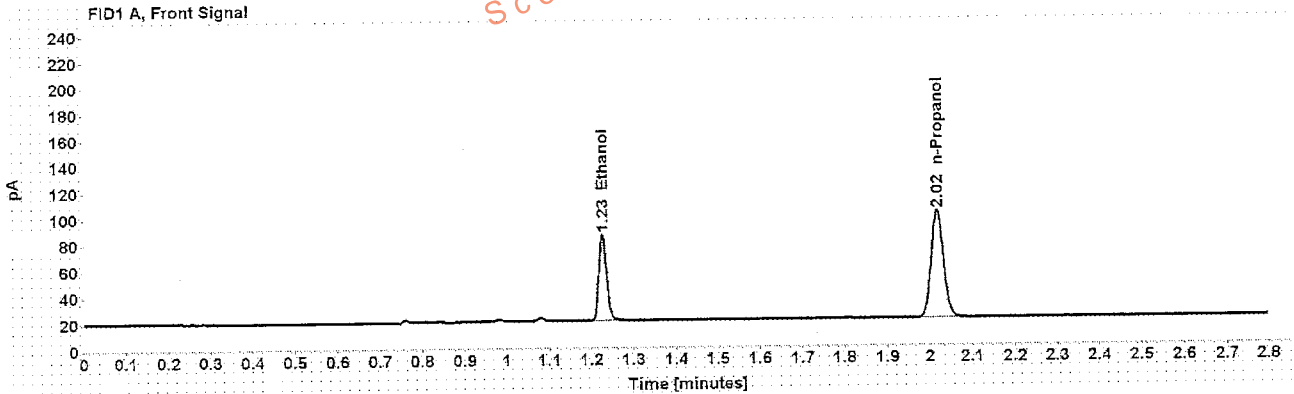


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1458	1.227	84.942
n-Propanol	-----	2.018	167.352

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	2.807
Ethanol	1.329	86.546
n-Propanol	2.346	169.851

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1099802
Injection date: 7/22/2016 5:57:57 PM	Vial: 22
Method: ethanol quant M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\22.D	

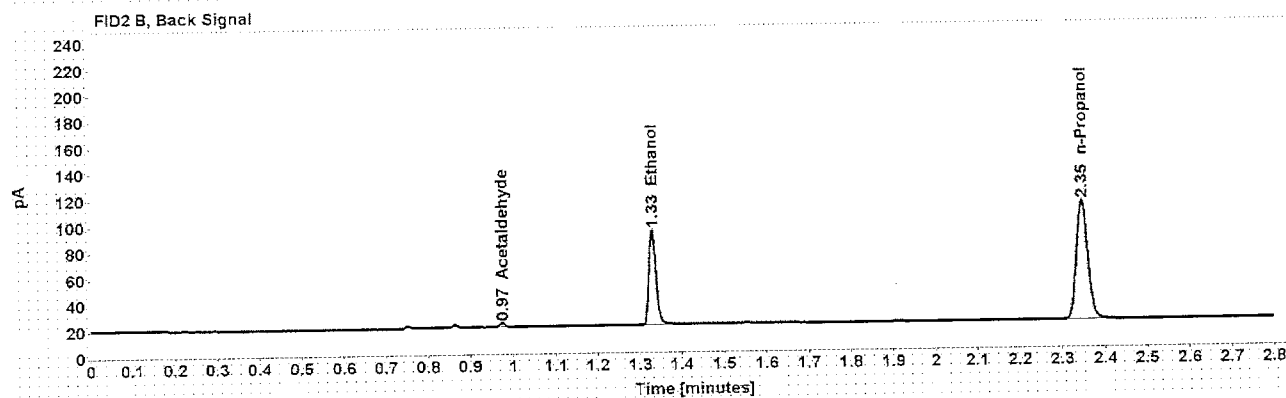
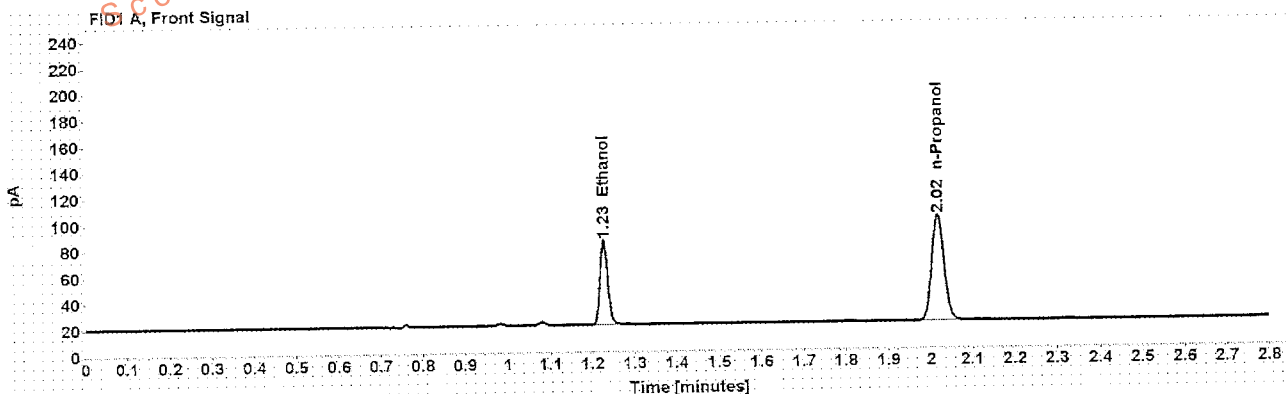


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1448	1.227	83.166
n-Propanol	-----	2.018	164.960

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	2.807
Ethanol	1.330	84.809
n-Propanol	2.347	168.809

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1101188
Injection date:	7/22/2016 6:01:57 PM	Vial:	23
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023,CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\22Jul16\23.D		

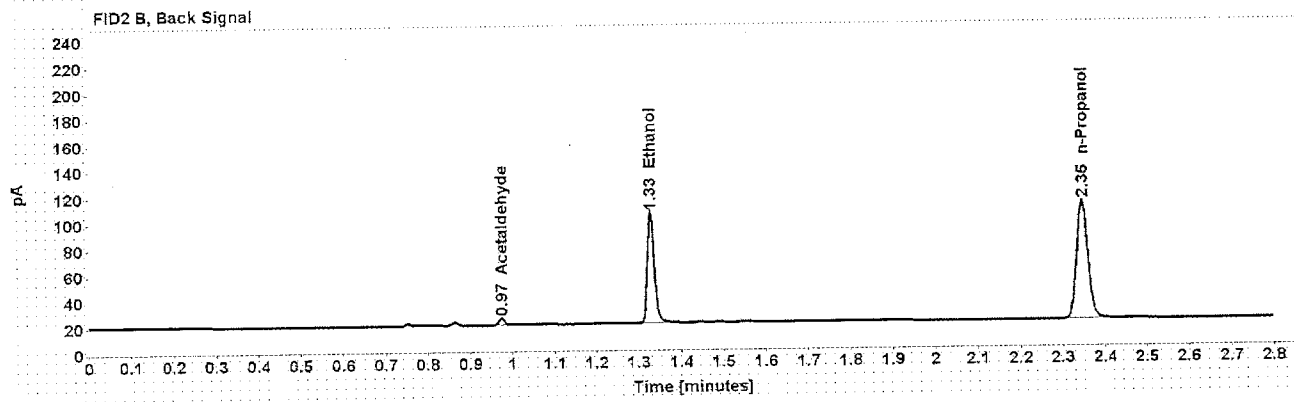
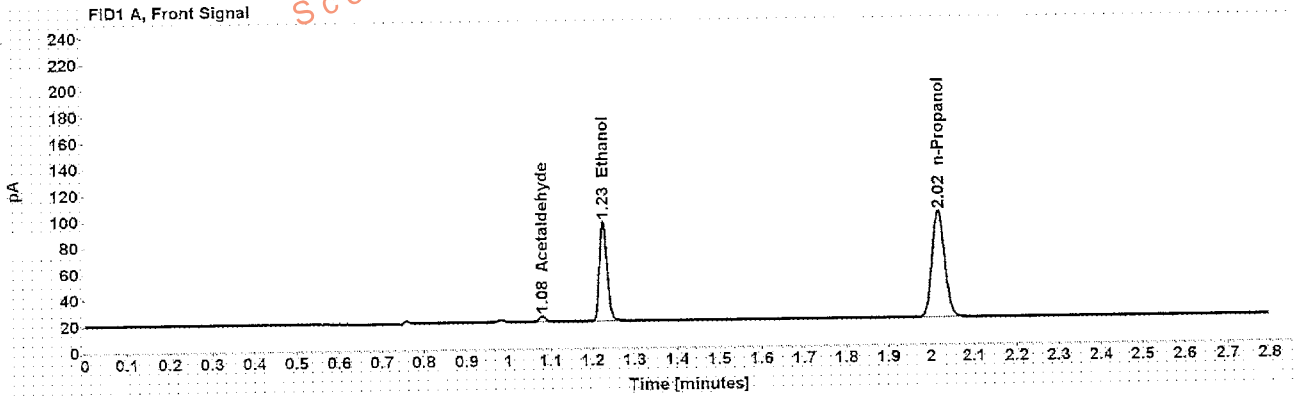


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.508
>Ethanol	0.1692	1.227	97.929
n-Propanol	-----	2.017	166.173

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.724
Ethanol	1.329	99.440
n-Propanol	2.346	168.965

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1101188
Injection date:	7/22/2016 6:05:57 PM	Vial:	24
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\22Jul16\24.D		

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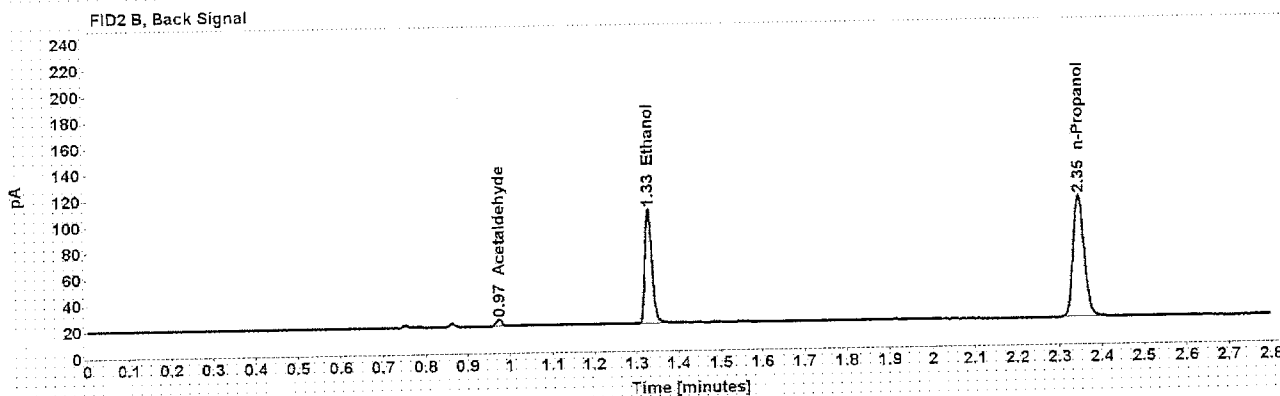
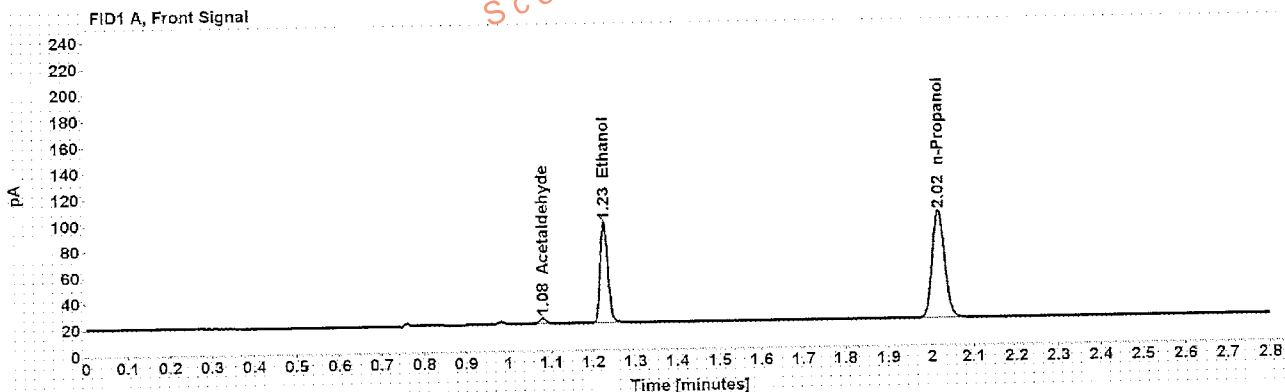


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.556
>Ethanol	0.1704	1.227	100.276
n-Propanol	-----	2.018	168.959

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.709
Ethanol	1.329	101.991
n-Propanol	2.347	172.437

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1101949
Injection date: 7/22/2016 6:10:13 PM	Vial: 25
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
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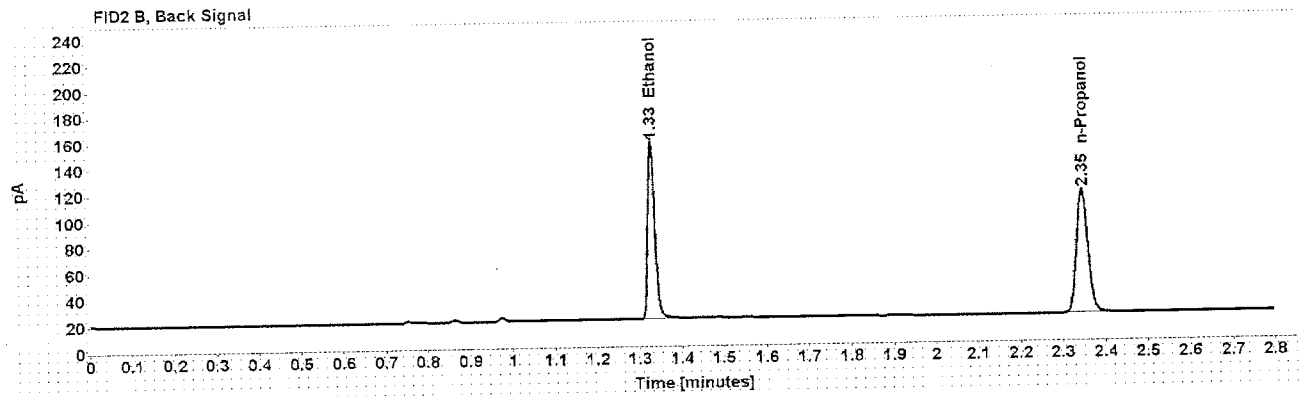
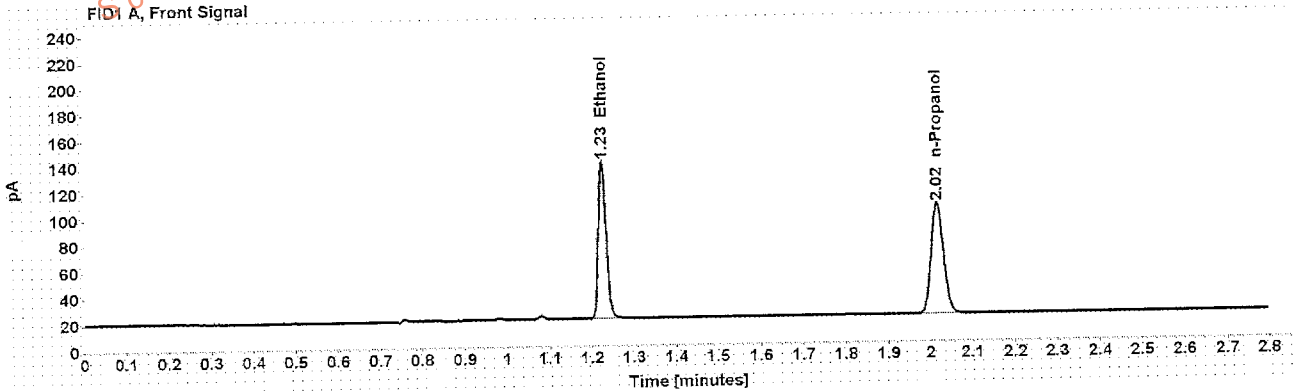


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2567	1.226	154.606
n-Propanol	-----	2.017	172.779

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

Compound	Time (min)	Peak Area
Ethanol	1.328	157.546
n-Propanol	2.346	176.303

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1101949
Injection date:	7/22/2016 6:14:13 PM	Vial:	26
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023.GN14160045	Analyst:	Langan
Data file:	C:\Chem32\11Data\22Jul16\26.D		

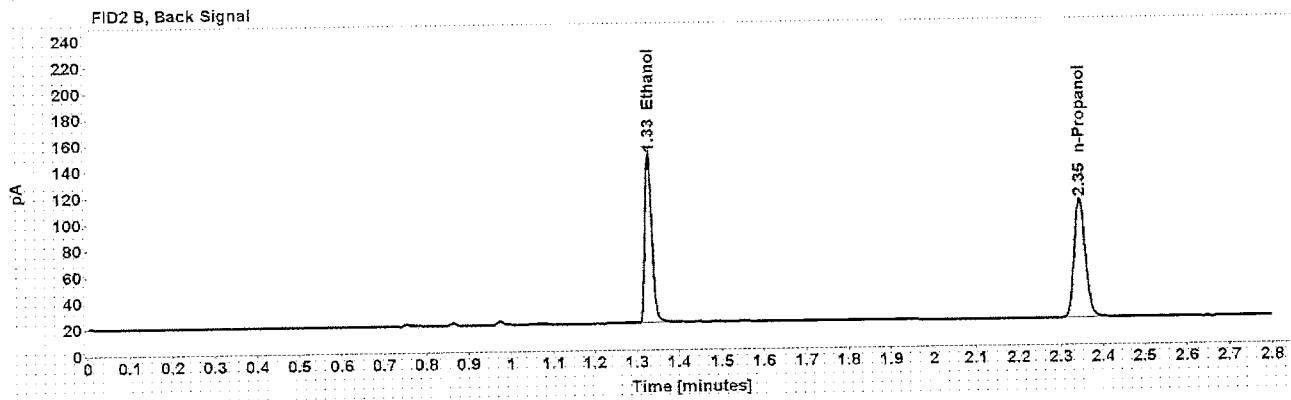
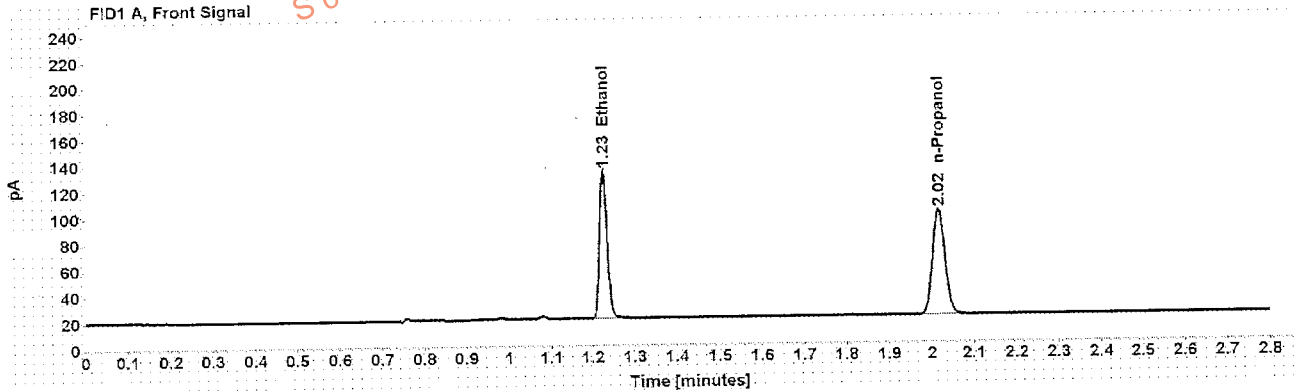


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2545	1.226	146.417
n-Propanol	-----	2.017	165.074

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

Compound	Time (min)	Peak Area
Ethanol	1.328	149.223
n-Propanol	2.346	168.525

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098994
Injection date:	7/22/2016 6:18:12 PM	Vial:	27
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\22Jul16\27.D		

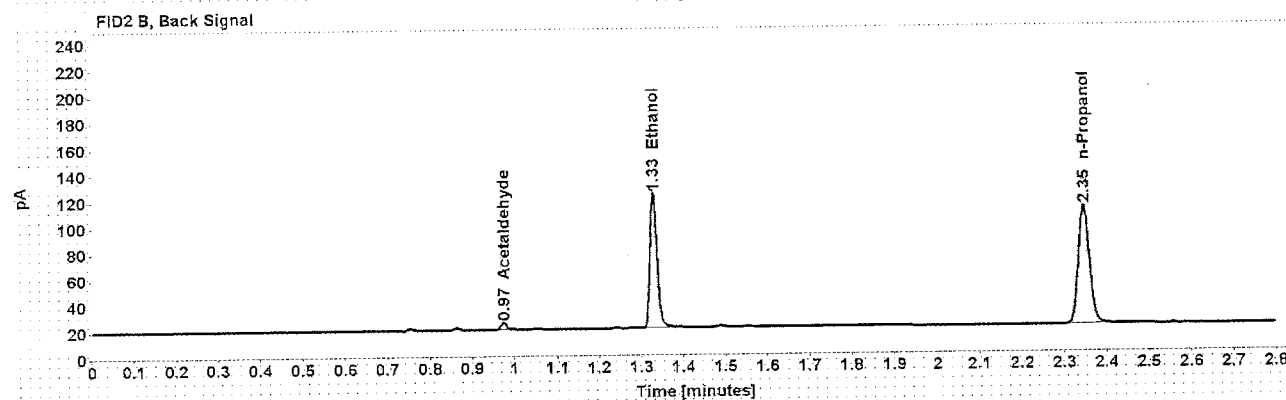
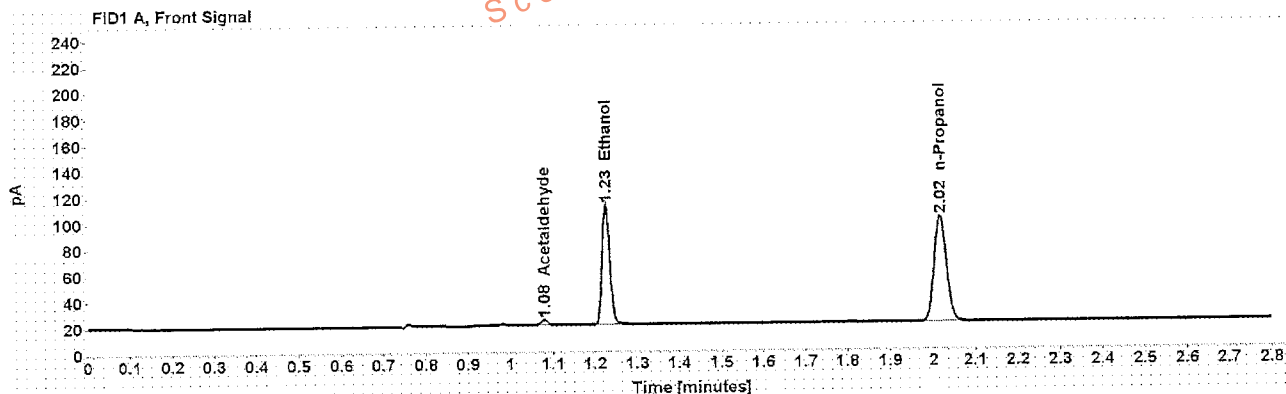


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.525
>Ethanol	0.2054	1.227	118.222
n-Propanol	-----	2.017	165.234

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.681
Ethanol	1.329	120.326
n-Propanol	2.346	168.461

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098994
Injection date:	7/22/2016 6:22:13 PM	Vial:	28
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
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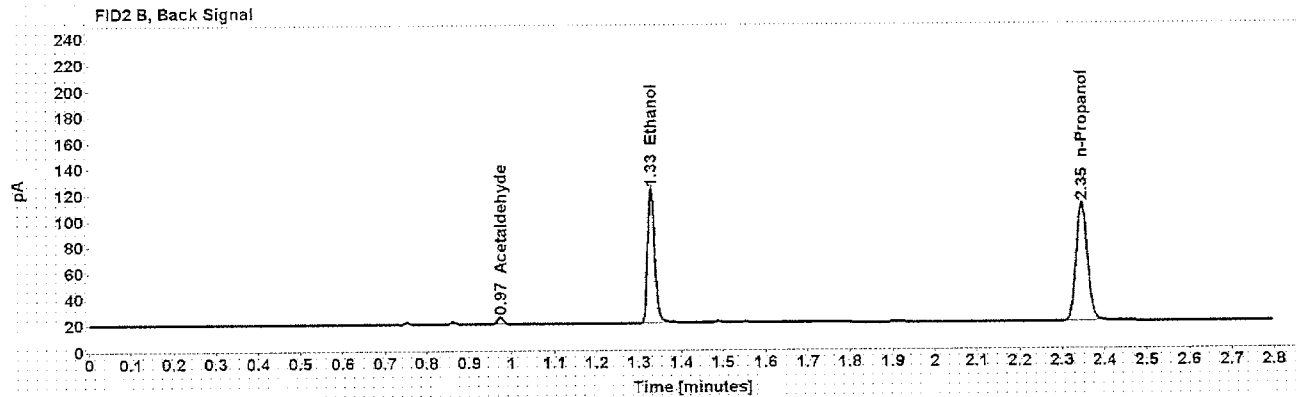
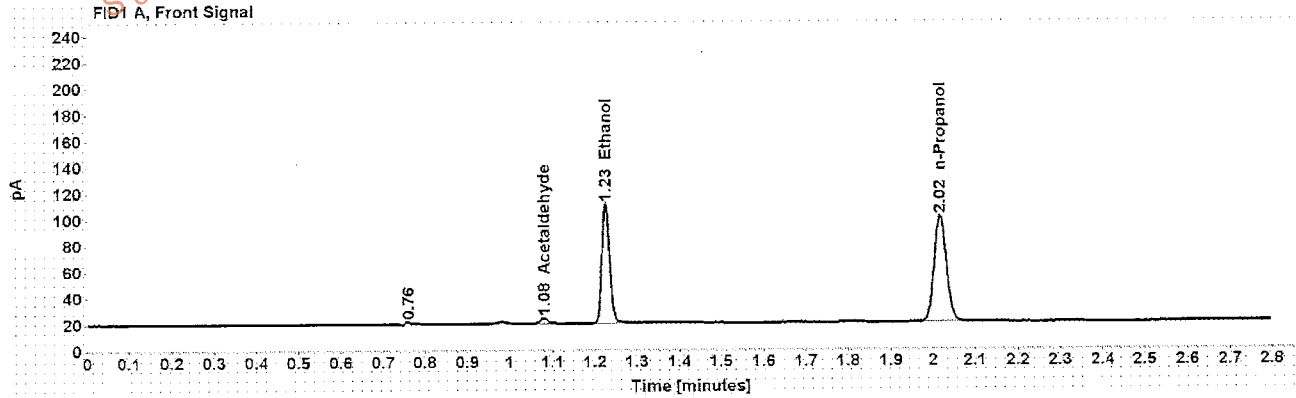


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.548
>Ethanol	0.2040	1.226	117.631
n-Propanol	-----	2.017	165.546

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.736
Ethanol	1.328	119.828
n-Propanol	2.346	168.888

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098629
Injection date:	7/22/2016 6:26:13 PM	Vial:	29
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US1473023.CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\22Jul16\29.D		

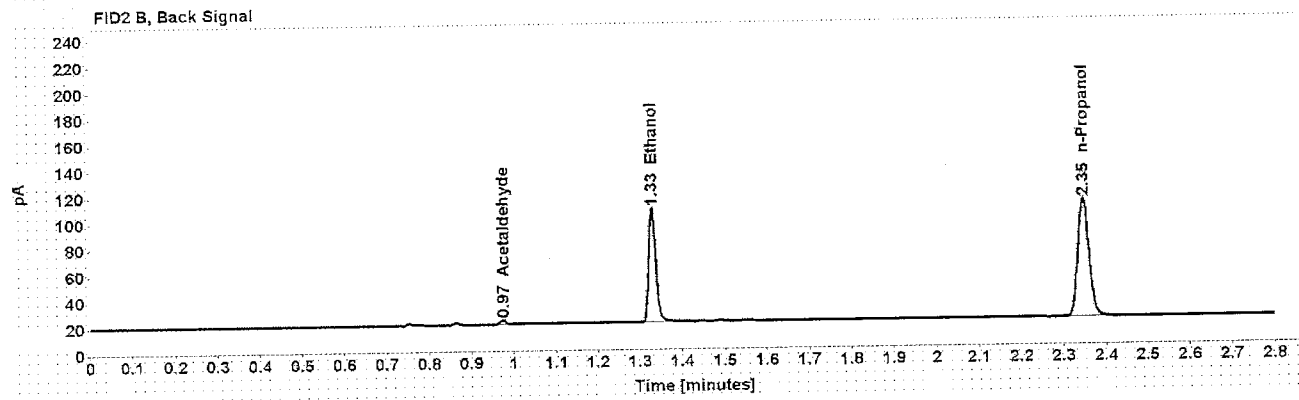
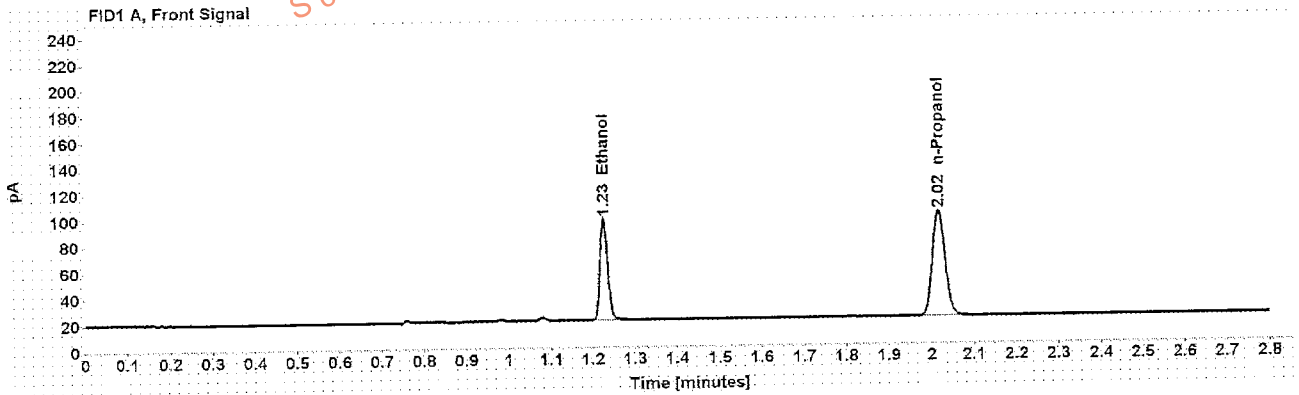


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1749	1.227	100.337
n-Propanol	-----	2.018	164.726

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	2.854
Ethanol	1.329	102.129
n-Propanol	2.347	167.837

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098629
Injection date:	7/22/2016 6:30:12 PM	Vial:	30
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160025	Analyst:	Langan
Data file:	C:\Chem32\1\Data\22Jul16\30.D		

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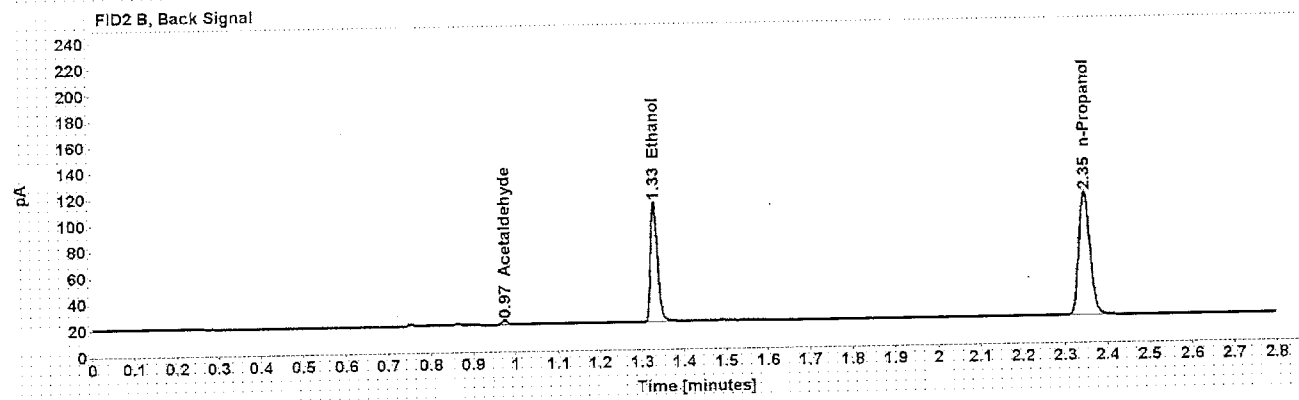
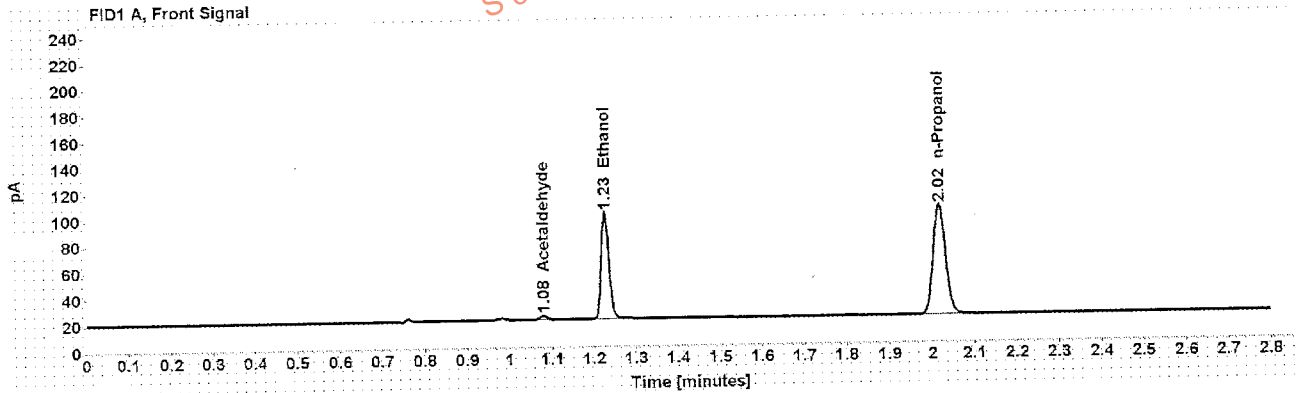


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	2.922
>Ethanol	0.1761	1.227	104.964
n-Propanol	-----	2.018	171.169

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	2.925
Ethanol	1.329	106.650
n-Propanol	2.347	174.409

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: ██████████	Item number: 1098858
Injection date: 7/22/2016 6:38:28 PM	Vial: 32
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11\Data\22Jul16\32.D	

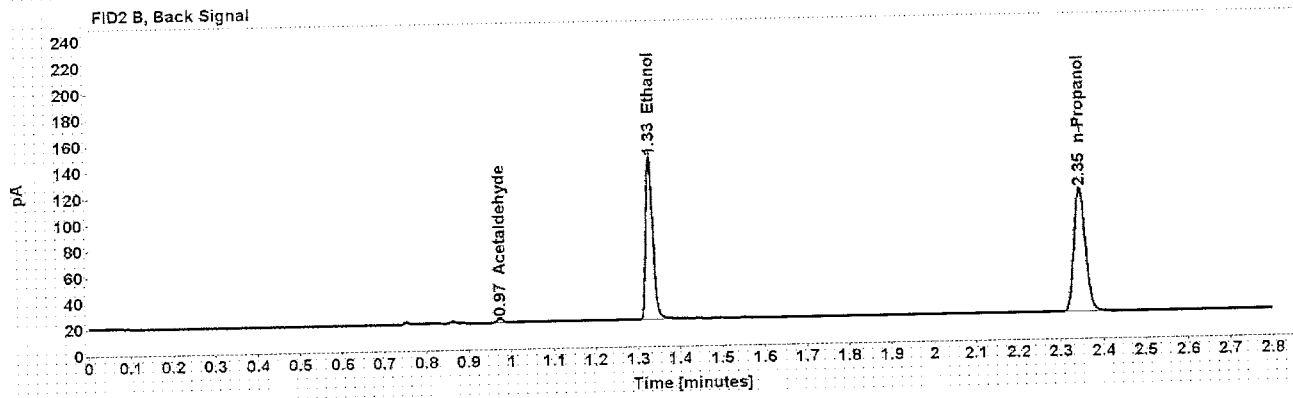
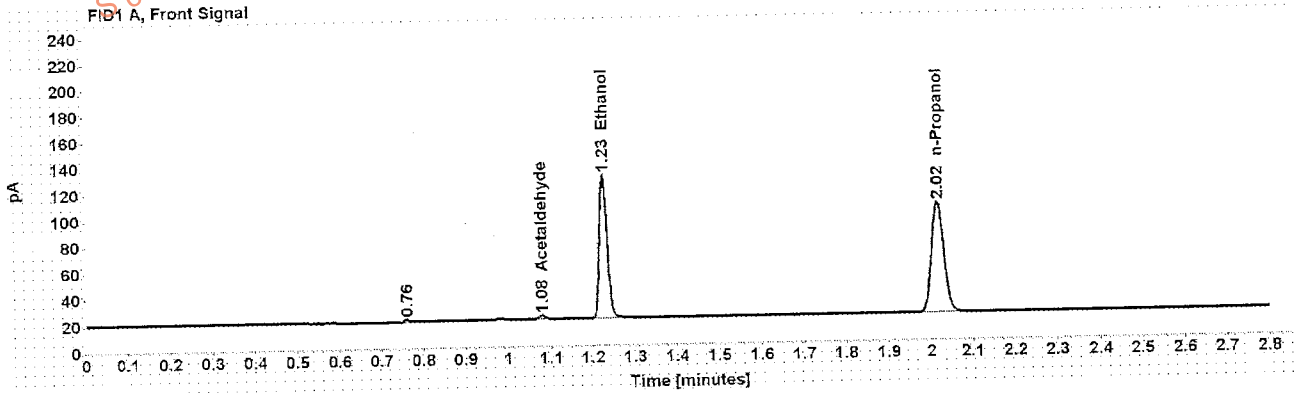


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	2.914
>Ethanol	0.2355	1.226	141.803
n-Propanol	-----	2.017	172.805

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.102
Ethanol	1.328	144.534
n-Propanol	2.346	176.273

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098858
Injection date:	7/22/2016 6:42:27 PM	Vial:	33
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US1473023.CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11Data\22Jul16\33.D		

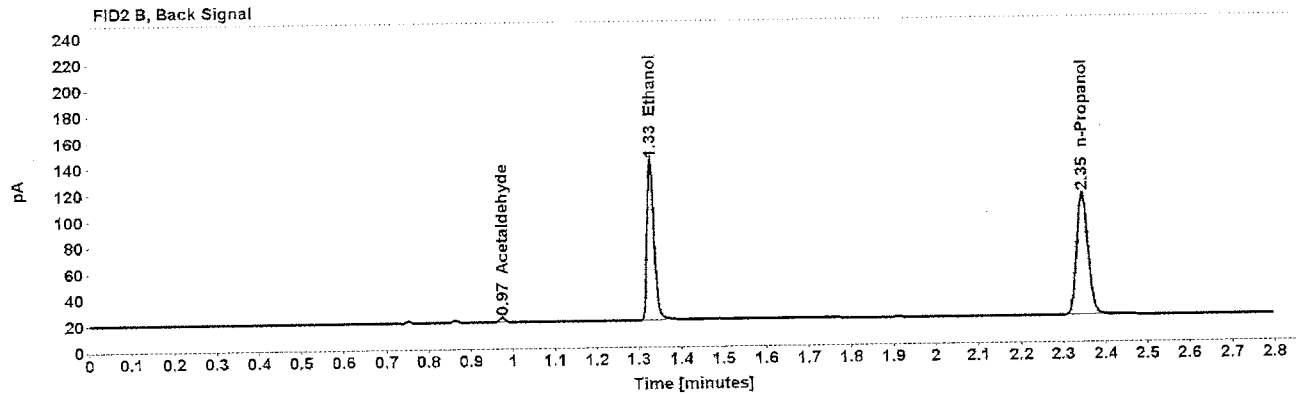
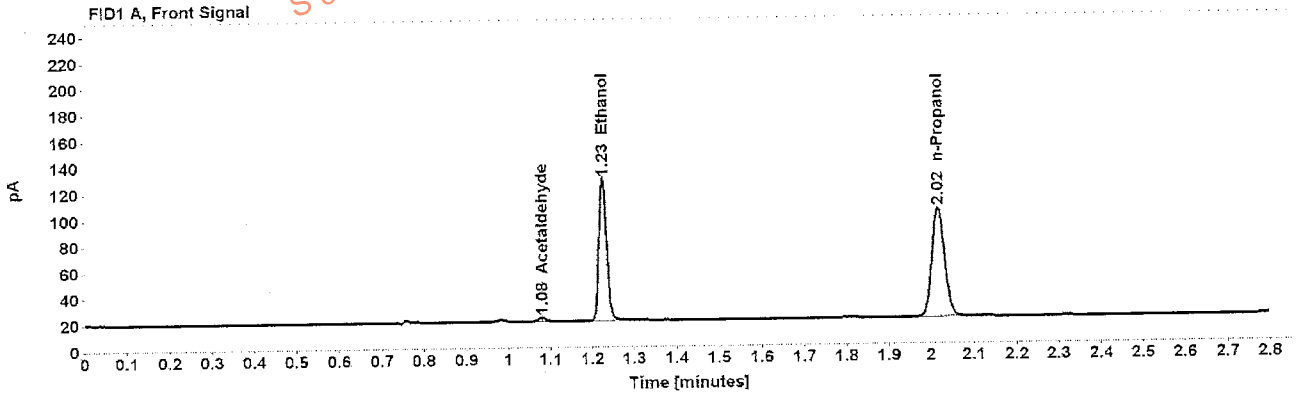


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	2.914
>Ethanol	0.2359	1.226	140.033
n-Propanol	-----	2.017	170.327

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.070
Ethanol	1.328	142.673
n-Propanol	2.346	173.382

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1099975
Injection date:	7/22/2016 6:46:29 PM	Vial:	34
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\22Jul16\34.D		

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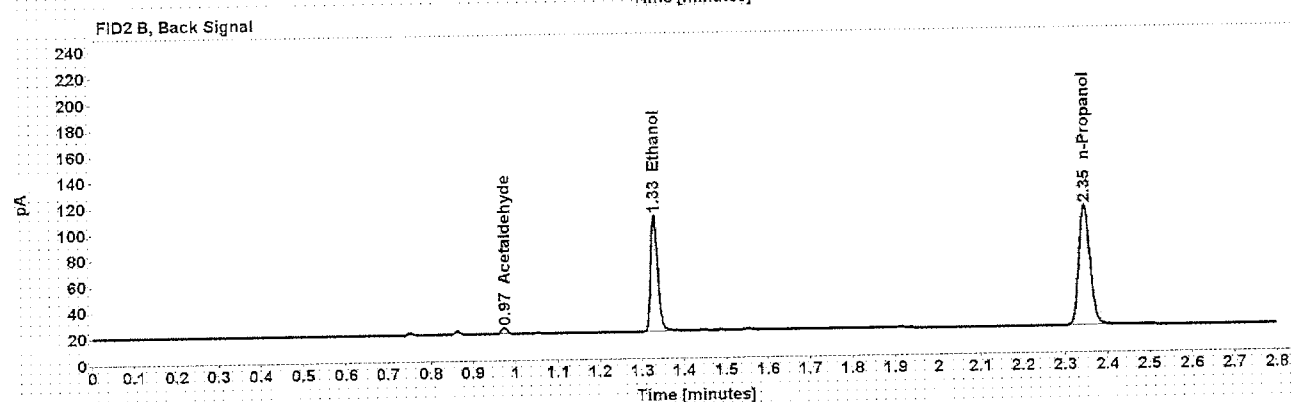
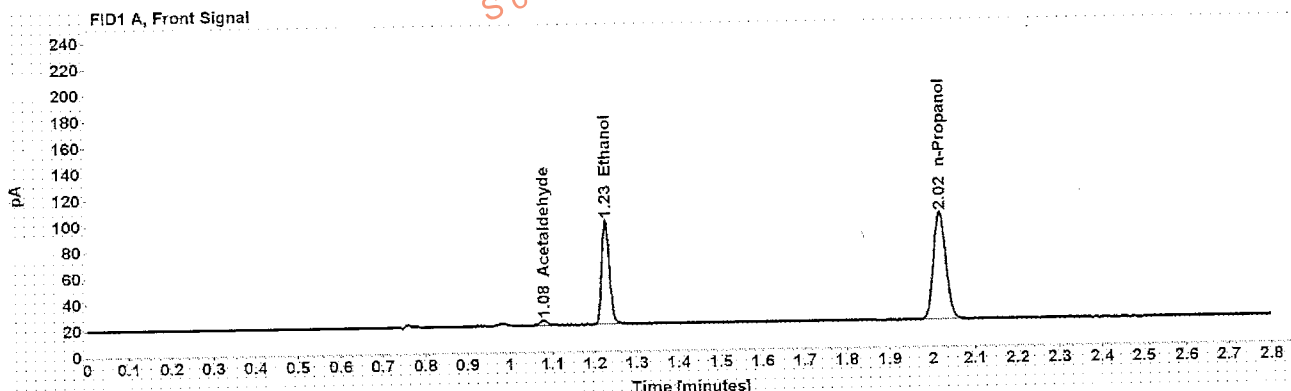


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.093
>Ethanol	0.1746	1.227	102.814
n-Propanol	-----	2.017	169.063

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.224
Ethanol	1.329	104.551
n-Propanol	2.346	171.756

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1099975
Injection date: 7/22/2016 6:50:28 PM	Vial: 35
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\22Jul16\35.D	

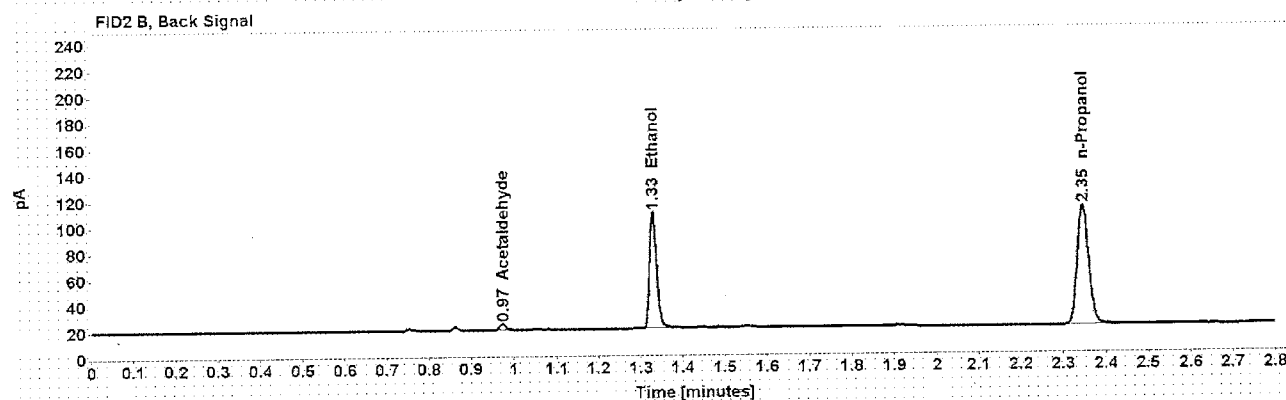
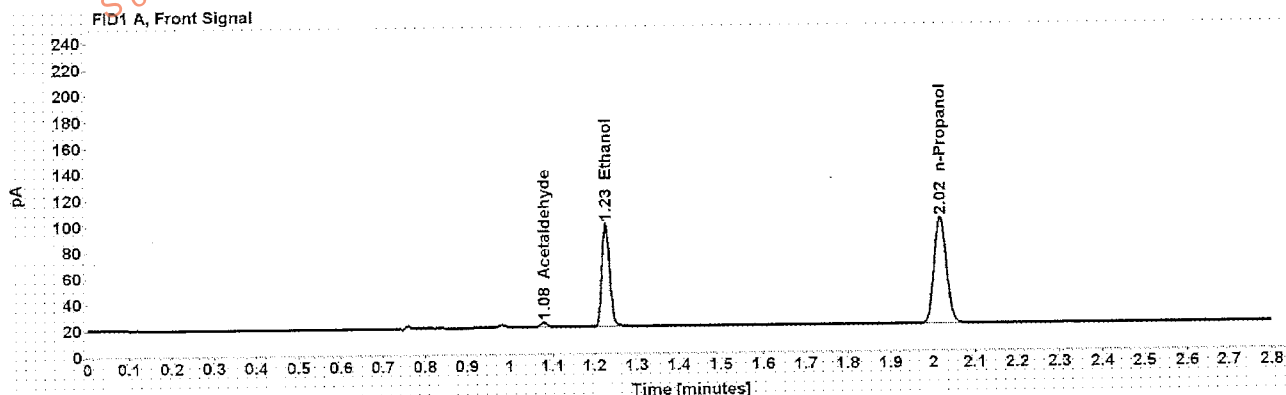


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.045
>Ethanol	0.1760	1.227	102.020
n-Propanol	-----	2.017	166.401

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.208
Ethanol	1.329	103.743
n-Propanol	2.346	170.347

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098382
Injection date:	7/22/2016 6:54:28 PM	Vial:	36
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023.ON14160045	Analyst:	Langan
Data file:	C:\Chem321\1\Data\22Jul16\36.D		

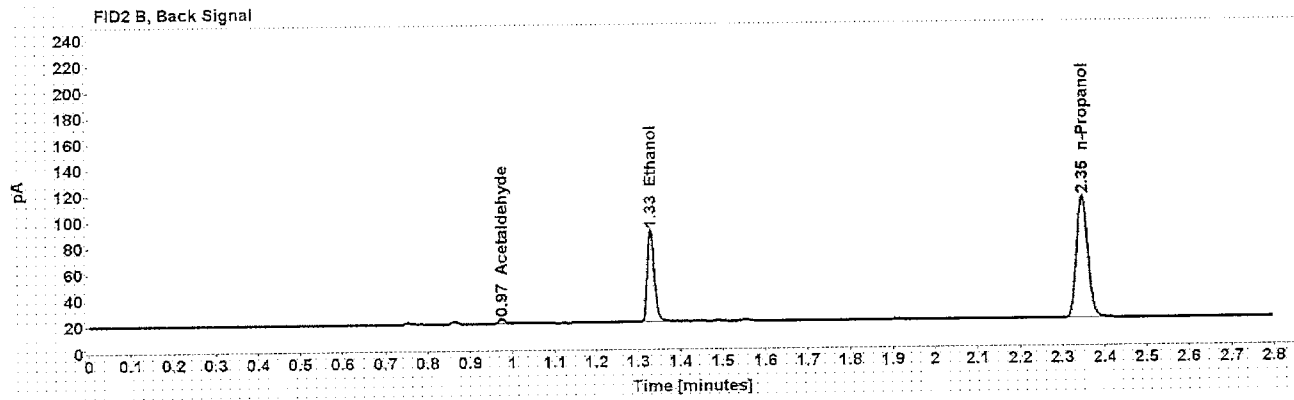
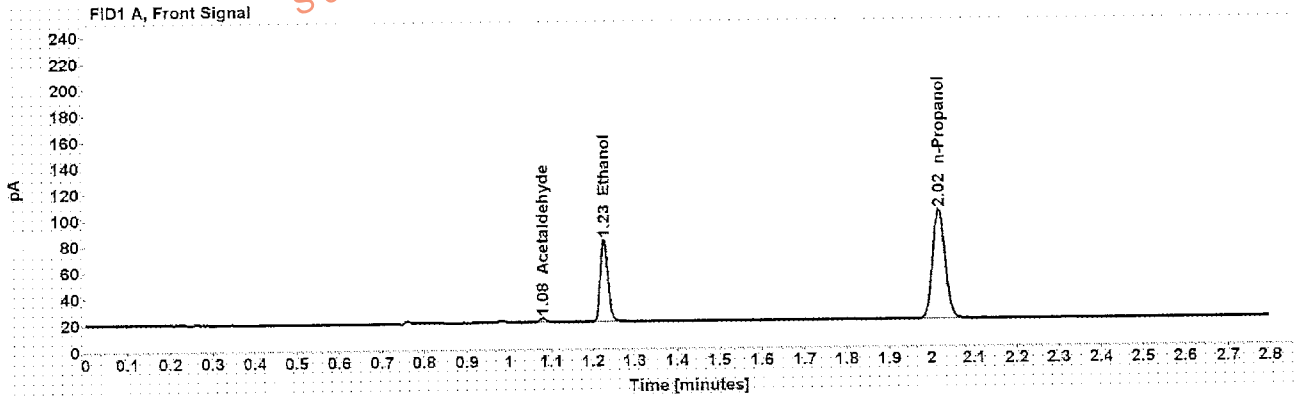


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.258
>Ethanol	0.1363	1.227	80.798
n-Propanol	-----	2.018	170.300

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.378
Ethanol	1.330	83.149
n-Propanol	2.347	174.181

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX **Item number:** 1098382
Injection date: 7/22/2016 6:58:42 PM **Vial:** 37
Method: ethanol quant.M **Sequence:** 22Jul16
Instrument: US14173023 CN14160045 **Analyst:** Langan
Data file: C:\Chem32\1\Data\22Jul16\37.D

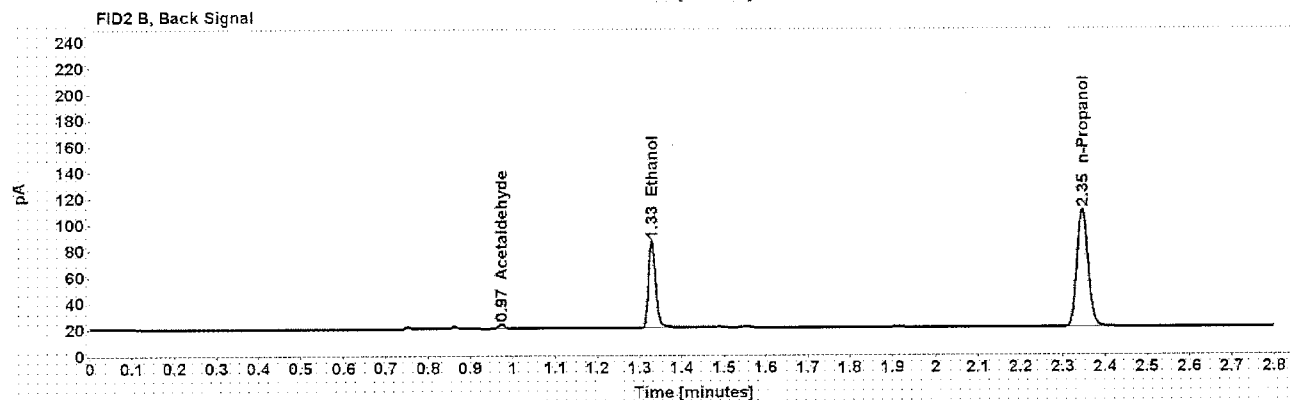
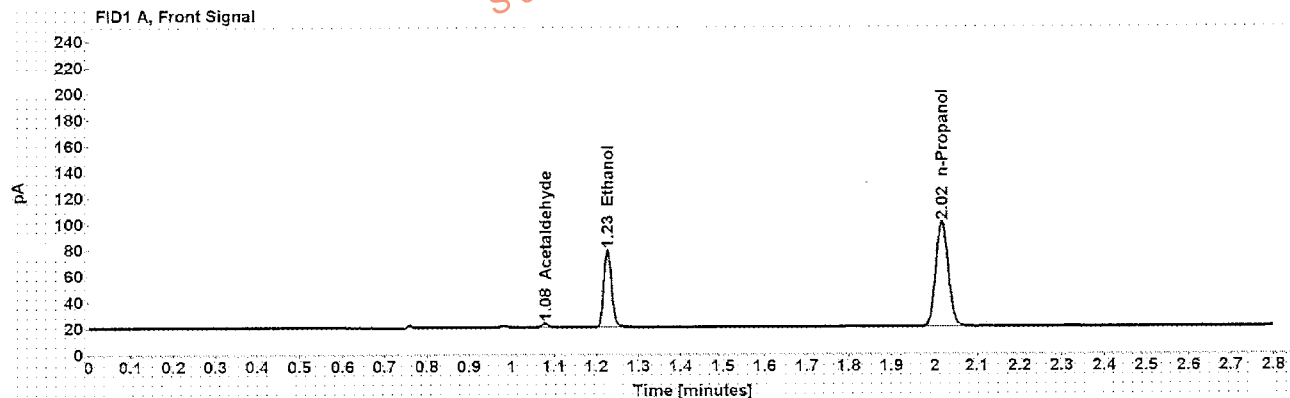


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.138
>Ethanol	0.1331	1.227	76.337
n-Propanol	-----	2.017	164.774

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	3.327
Ethanol	1.329	77.609
n-Propanol	2.346	167.290

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1099210
Injection date: 7/22/2016 7:02:43 PM	Vial: 38
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem321\Data\22Jul16\38.D	

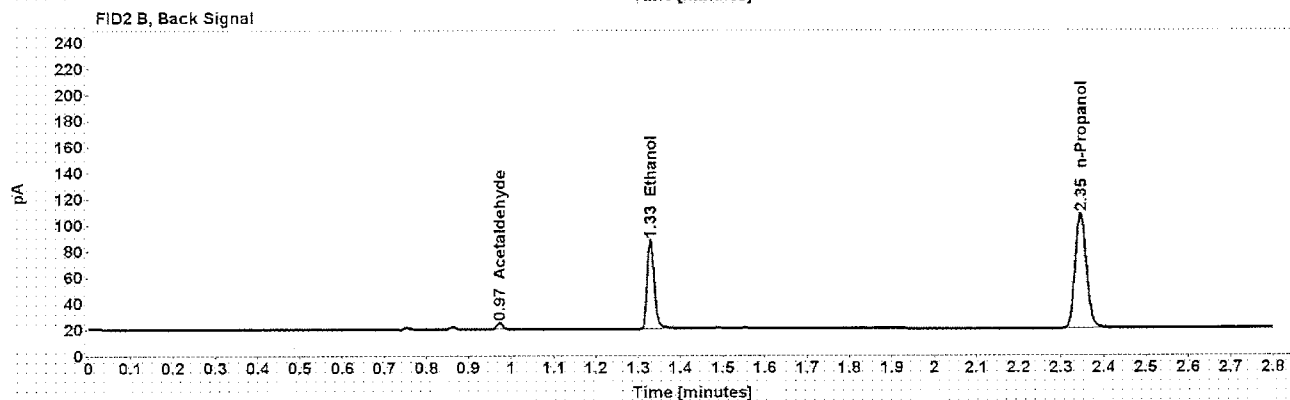
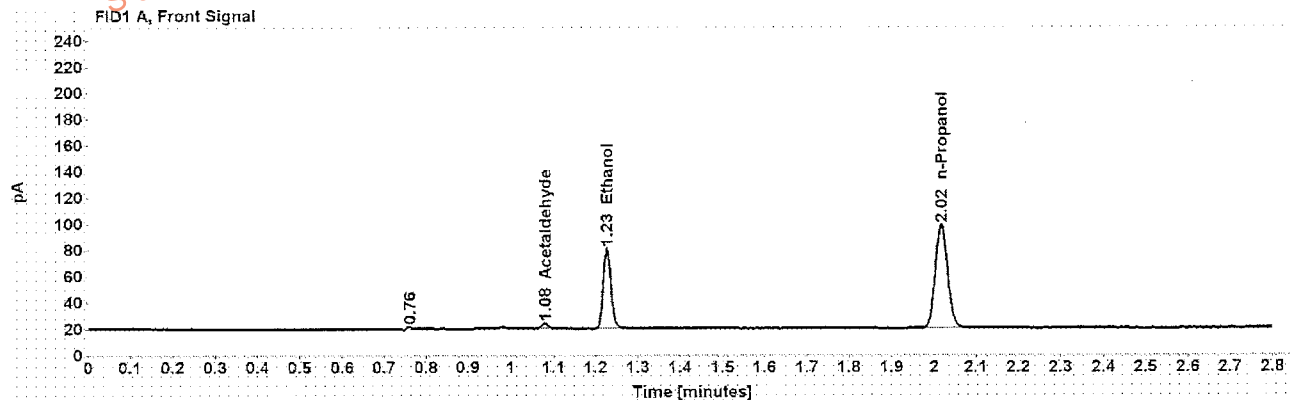


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.337
>Ethanol	0.1397	1.227	78.111
n-Propanol	-----	2.017	160.663

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.974	4.528
Ethanol	1.329	79.575
n-Propanol	2.346	163.717

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1099210
Injection date:	7/22/2016 7:06:42 PM	Vial:	39
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023.CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\22Jul16\39.D		

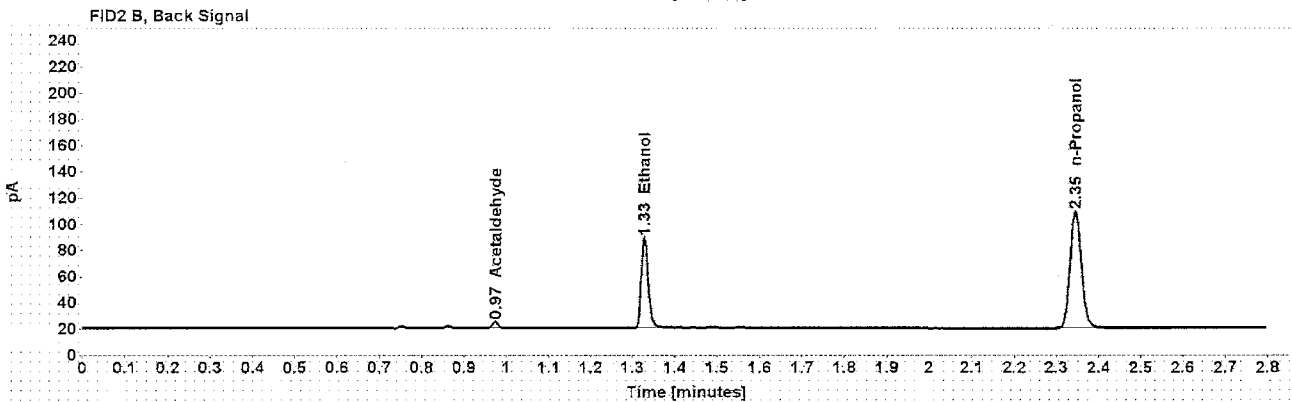
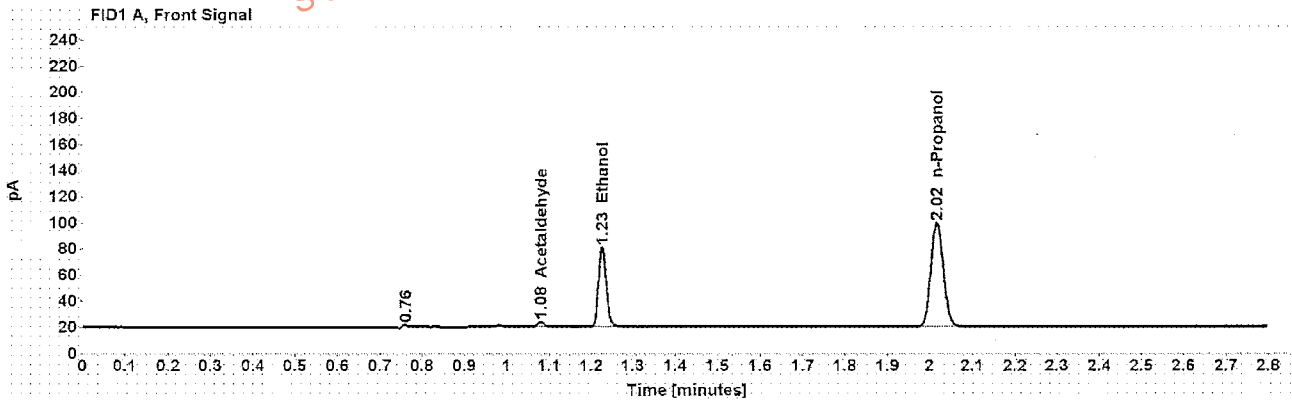


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	4.352
>Ethanol	0.1396	1.226	79.208
n-Propanol	-----	2.017	163.061

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	4.581
Ethanol	1.328	80.576
n-Propanol	2.345	166.183

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1074704
Injection date:	7/22/2016 7:10:42 PM	Vial:	40
Method:	ethanol quant.M	Sequence:	22Jul16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\22Jul16\40.D		

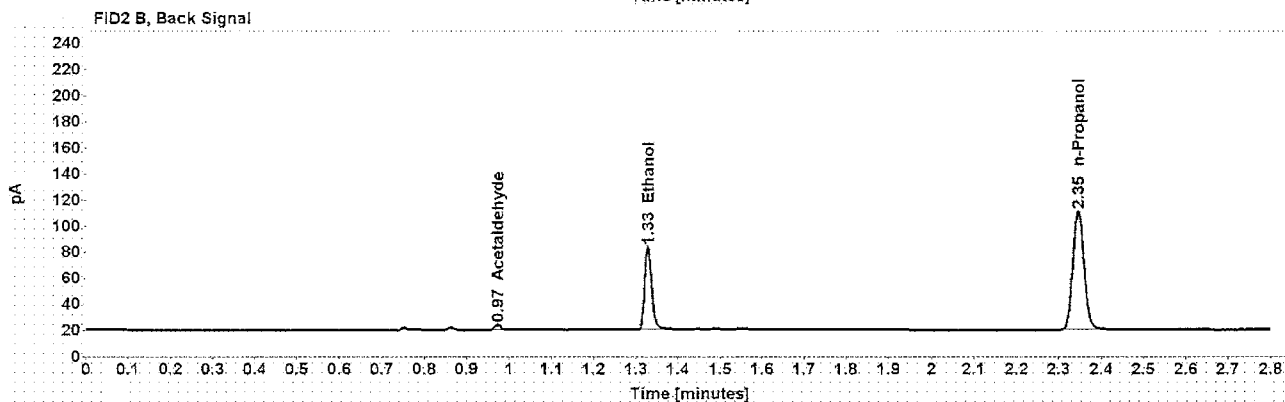
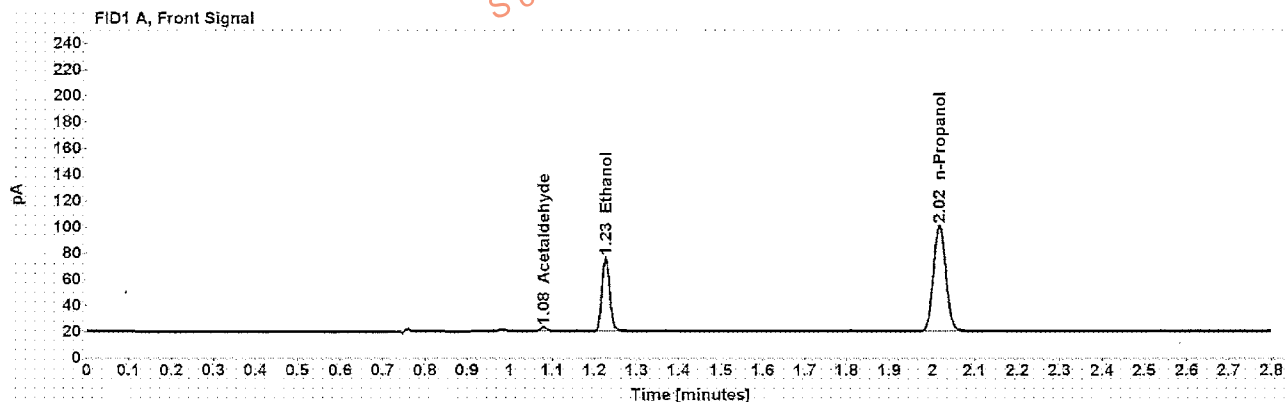


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.505
>Ethanol	0.1266	1.227	73.090
n-Propanol	-----	2.017	165.939

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	3.725
Ethanol	1.329	74.310
n-Propanol	2.345	169.424

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX	Item number: 1074704
Injection date: 7/22/2016 7:14:42 PM	Vial: 41
Method: ethanol quant.M	Sequence: 22Jul16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\22Jul16\41.D	

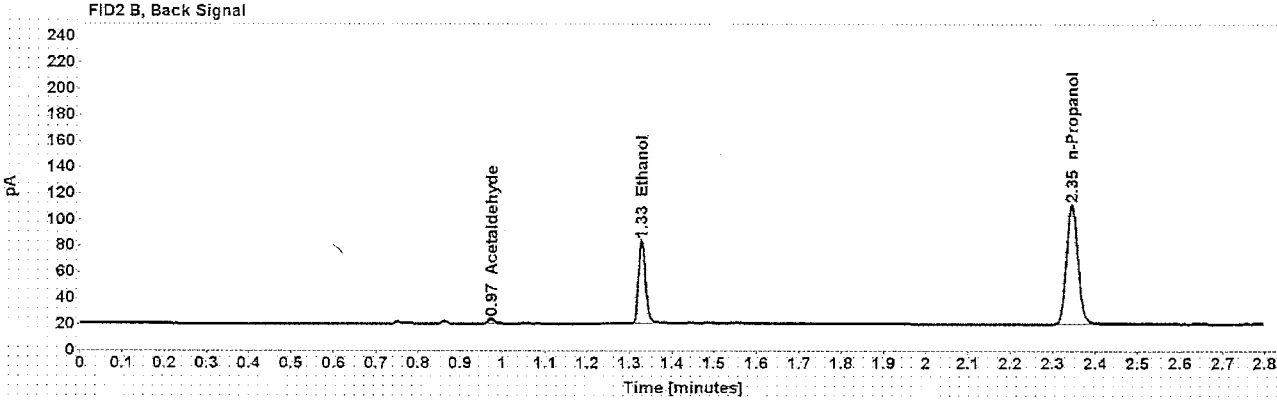
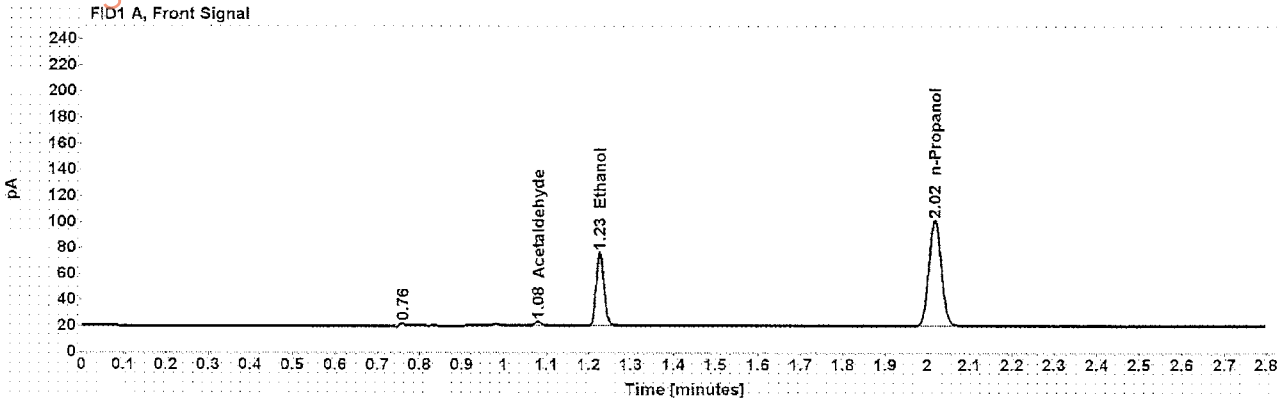


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.080	3.520
>Ethanol	0.1258	1.226	72.993
n-Propanol	-----	2.017	166.758

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	3.726
Ethanol	1.328	74.339
n-Propanol	2.345	170.113