

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 09/13/2016 SEQUENCE NAME 13Sep16

### EQUIPMENT

Pipettor  Hamilton ML600EH7497  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

<u>Vial</u>	<u>Sample</u>	<u>Expected result</u>	<u>Measured result</u>	<u>Manufacturer/lot</u>
5	blank	Not detected	Not detected	SPD lab 090816
6	volatiles mixture	6 Compounds	6 Compounds	SPD lab 030916ASL
7	aqueous control	0.400 g/dL	0.398g/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	0.079g/dL	Lipomed 14112011-A
31	aqueous control	0.150 g/dL	0.150g/dL	Lipomed 11012012-C
42	blood control	0.200 g/dL	0.202g/dL	ACQ 402101060/6
53	aqueous control	0.080 g/dL	0.081g/dL	Lipomed 14112011-A
64	aqueous control	0.400 g/dL	0.403g/dL	Lipomed 05012012-C
65	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
66	blood control	0.200 g/dL	0.203g/dL	ACQ 402101060/6
67	blank	Not detected	Not detected	SPD lab 090816

### SUBJECT SAMPLES

Subjects in the sequence 22 Subjects requiring reanalysis 1

**ADDITIONAL NOTES: Vials 18 & 19 duplicates fell outside of the expected 2% agreement range. This run included verification testing of 3 new lots of controls. Hand corrected lot number on blank samles for documents.**

Run valid   
 Run invalid

Ami Langen  
 Analyst

Run valid   
 Run invalid

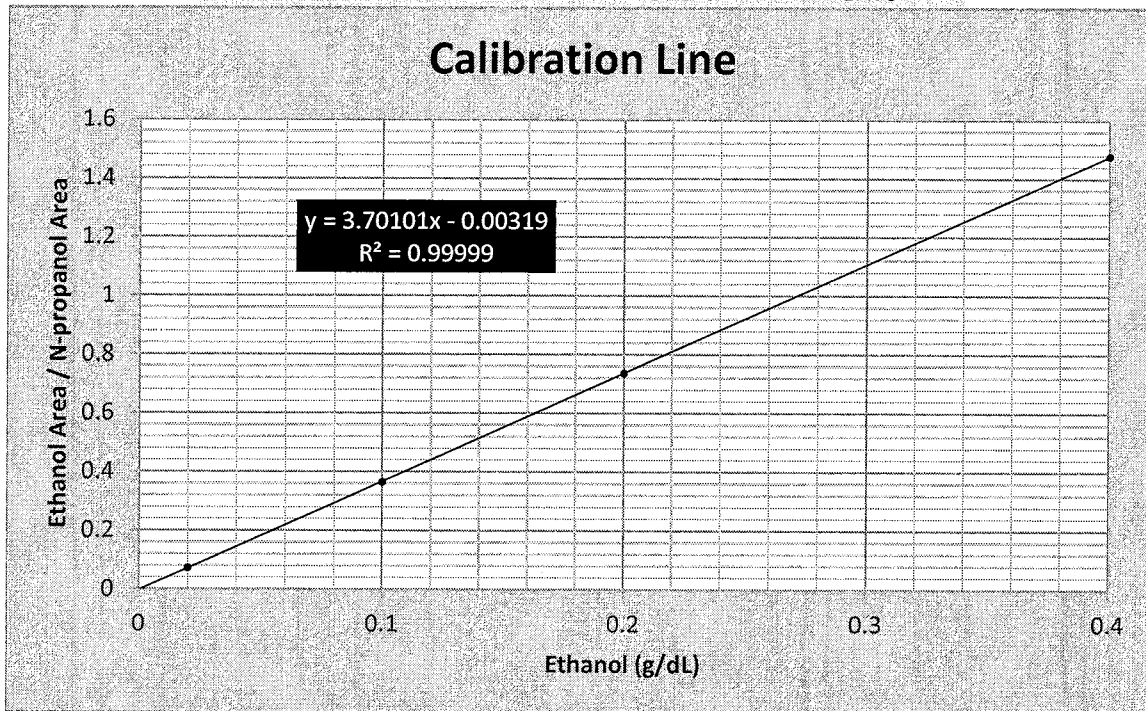
9/16/16  
 Technical Reviewer

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

SEQUENCE NAME: 13Sep16

Control	Vial	Expected Value (g/dL)	Measured Value (g/dL)	Percent Difference	Absolute Difference (g/dl)
1	5	negative	negative	-	-
2	7	0.400	0.398	0.50	-0.002
3	8	0.040	0.039	2.50	-0.001
4	9	0.200	0.201	0.50	0.001
5	20	0.060	0.079	1.25	-0.001
6	31	0.150	0.150	0.00	0.000
7	42	0.200	0.202	1.00	0.002
8	53	0.060	0.061	1.25	0.001
9	64	0.400	0.403	0.75	0.003
10	65	0.040	0.040	0.00	0.000
11	66	0.200	0.203	1.50	0.003
12	67	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	12.119	166.918	0.073
0.100	57.395	157.365	0.365
0.200	117.063	158.853	0.737
0.400	232.857	157.579	1.478



# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

Sample: 0.020 Cerilliant FN08101401	Item number:
Injection date: 9/13/2016 7:18:18 PM	Vial: 1
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\13Sep16\1.D	

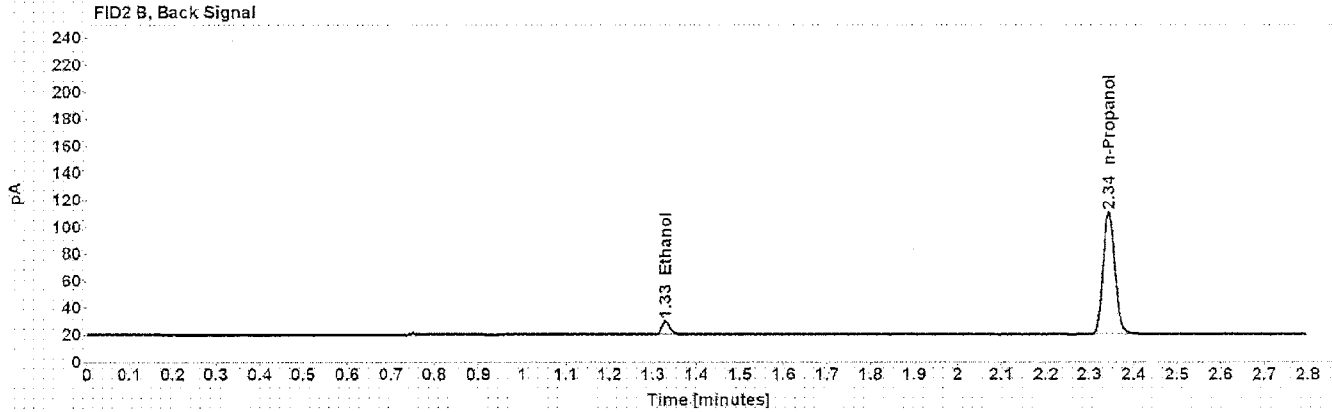
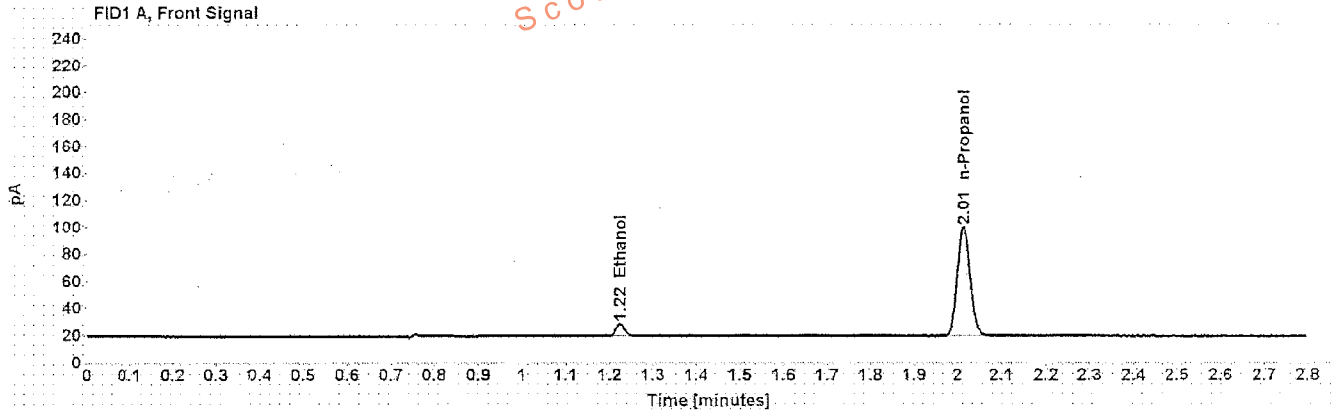


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.225	12.119
n-Propanol	2.013	166.918

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

Compound	Time (min)	Peak Area
Ethanol	1.328	12.371
n-Propanol	2.344	170.381

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.100 Cerilliant FN06181507	Item number:
Injection date: 9/13/2016 7:22:18 PM	Vial: 2
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\10\Data\13Sep16\2.D	

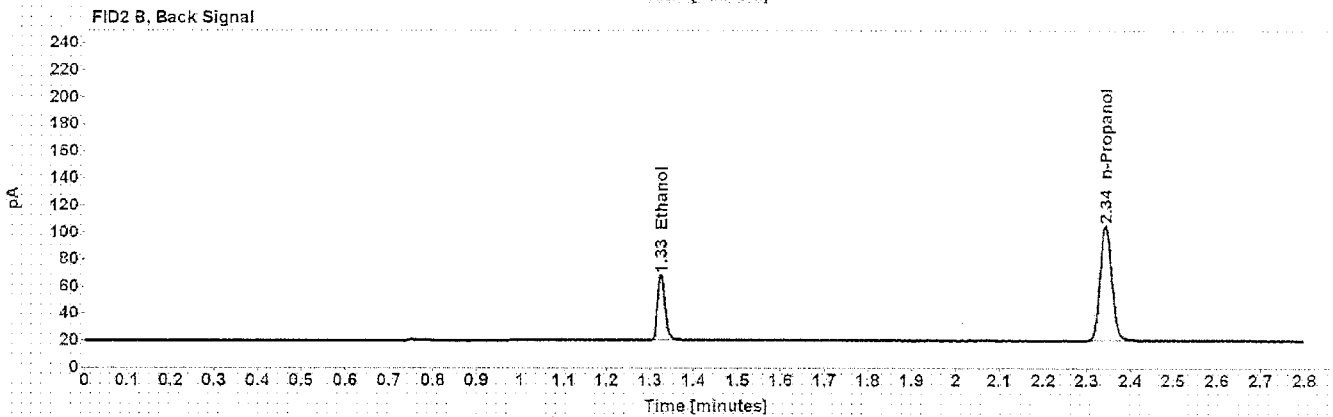
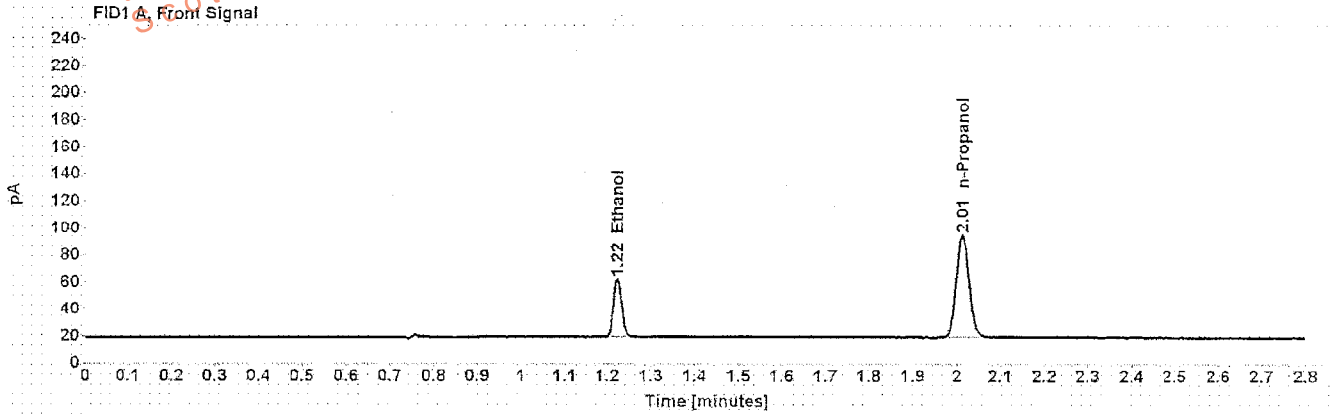


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.223	57.395
n-Propanol	2.013	157.365

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

Compound	Time (min)	Peak Area
Ethanol	1.326	58.614
n-Propanol	2.343	160.511

# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
 Scottsdale City Prosecutor

Sample: 0.200 Cerilliant FN07201502	Item number:
Injection date: 9/13/2016 7:26:18 PM	Vial: 3
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem3211\Data\13Sep16\3.D	

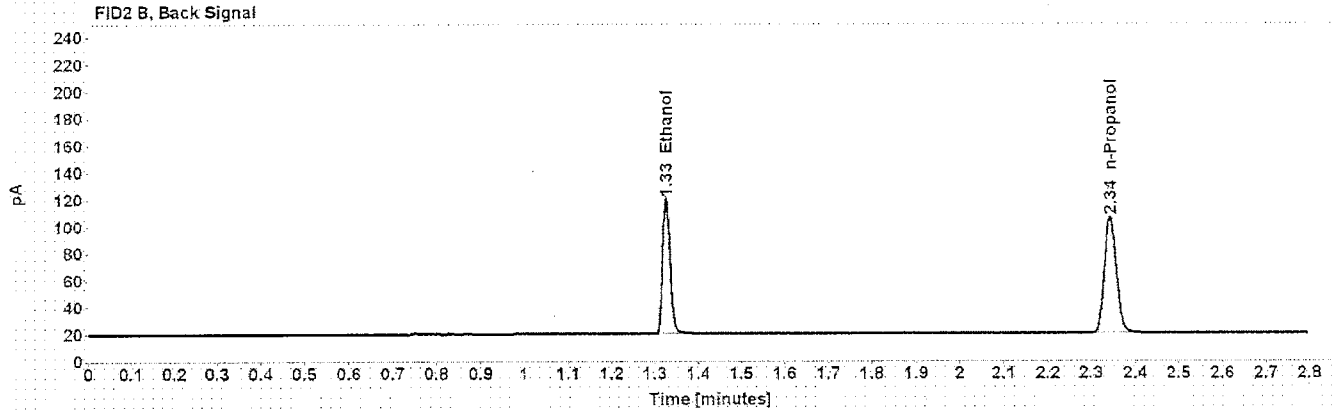
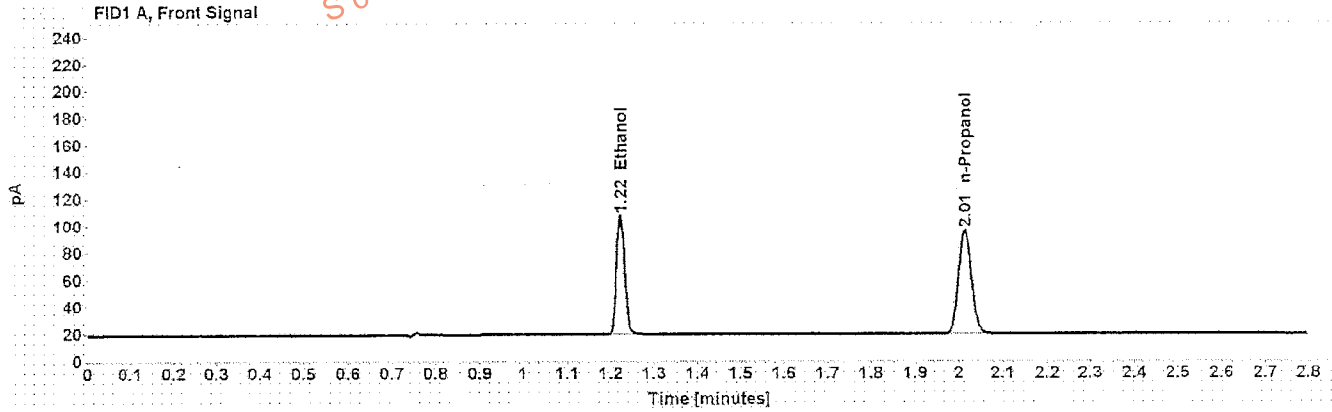


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.223	117.063
n-Propanol	2.013	158.853

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

Compound	Time (min)	Peak Area
Ethanol	1.325	120.289
n-Propanol	2.344	162.162

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.400 Cerilliant FN11191402	Item number:
Injection date: 9/13/2016 7:30:18 PM	Vial: 4
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\13Sep16\4.D	

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized Agencies is PROHIBITED.  
 Scottsdale City Prosecutor

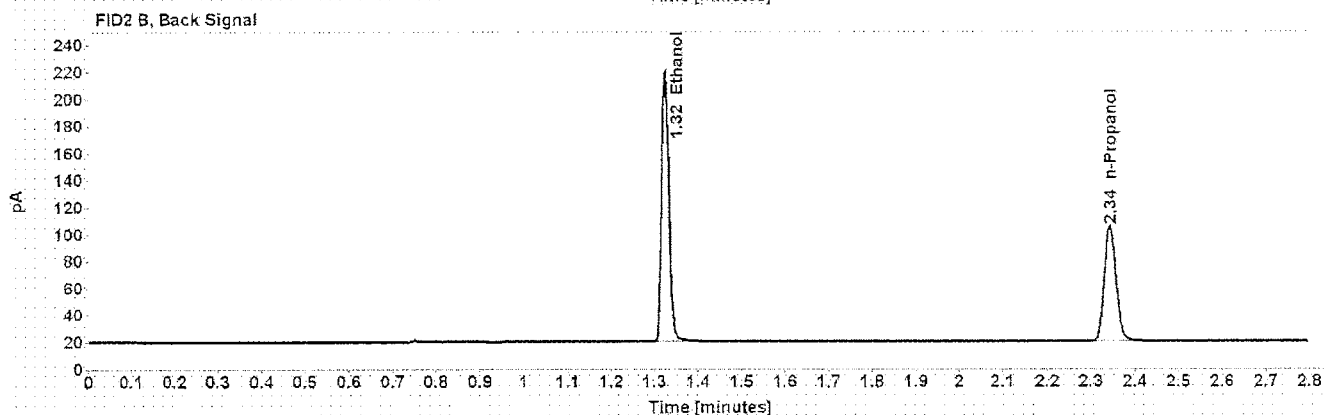
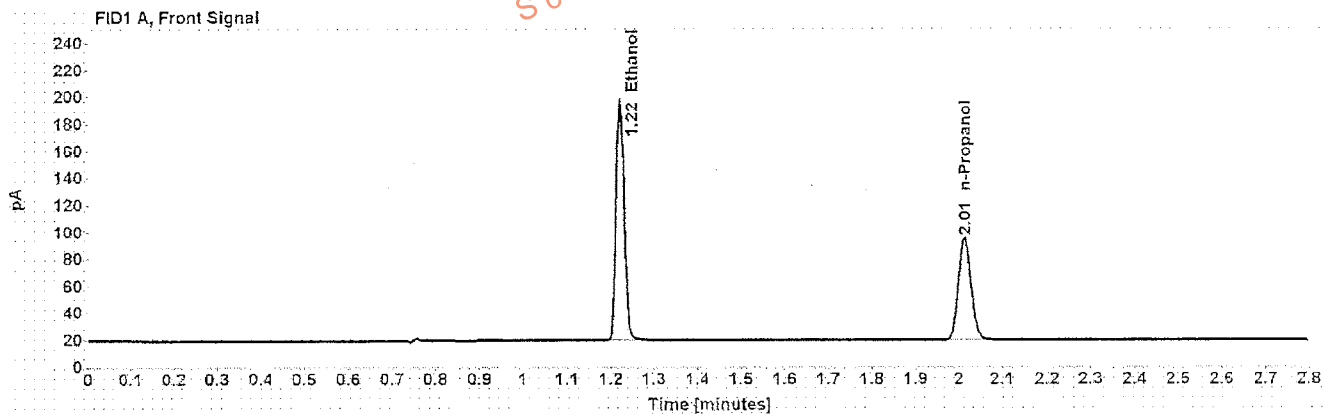


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.222	232.857
n-Propanol	2.013	157.579

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

Compound	Time (min)	Peak Area
Ethanol	1.324	240.091
n-Propanol	2.343	160.911

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number:
Injection date: 9/13/2016 7:34:19 PM	Vial: 5
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan, AJ
Data file: C:\Chem32\11\Data\13Sep16\5.D	

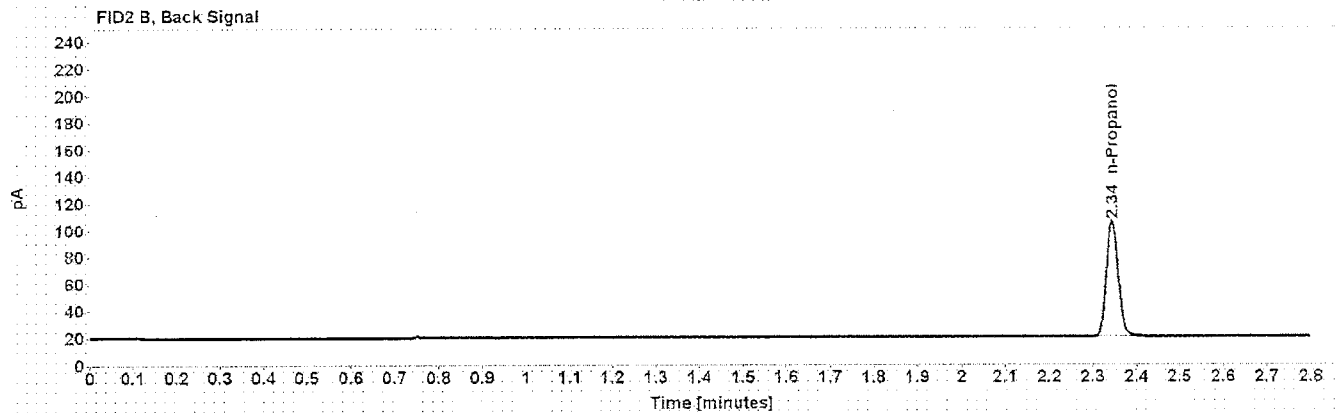
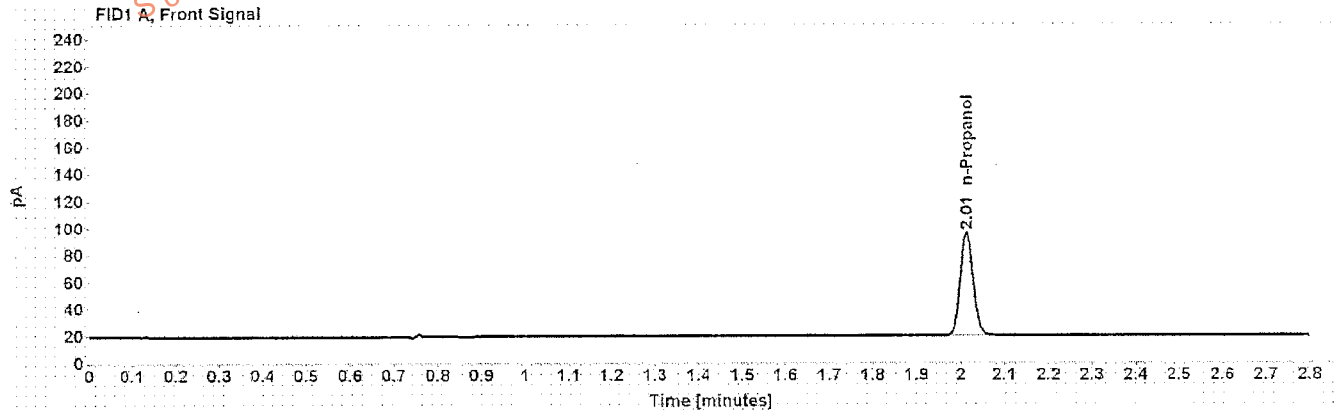


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	158.342

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	161.590

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: volatiles mix 030916 ASL	Item number:
Injection date: 9/13/2016 7:38:19 PM	Vial: 6
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>Ad</i>
Data file: C:\Chem3211\Data\13Sep16\6.D	

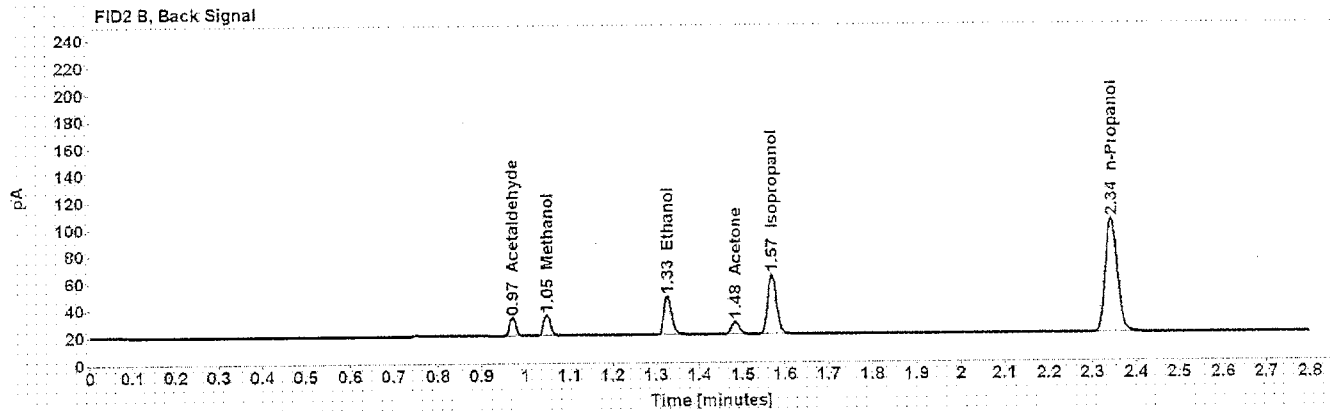
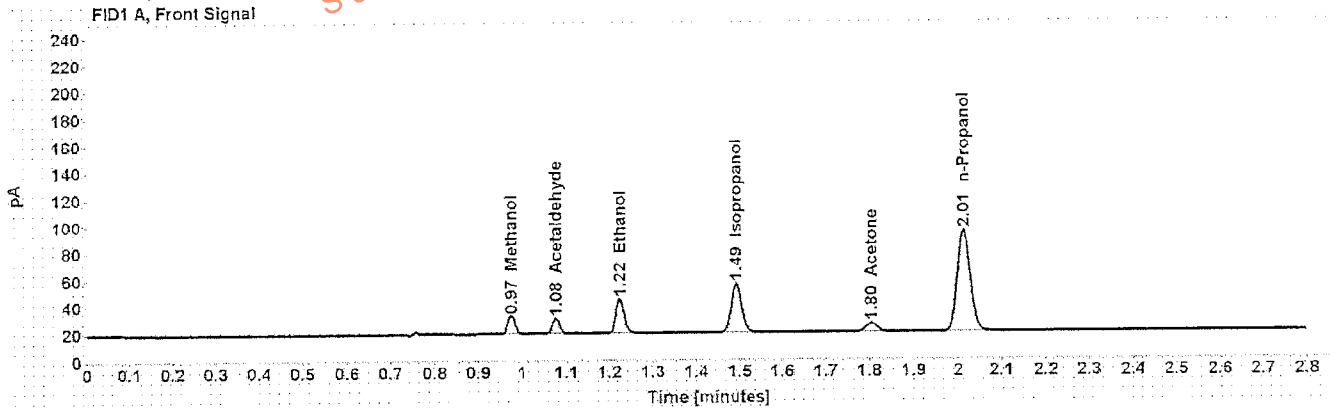


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.975	16.092
Acetaldehyde	-----	1.076	13.153
>Ethanol	0.0595	1.223	33.927
Isopropanol	-----	1.492	61.448
Acetone	-----	1.804	11.898
n-Propanol	-----	2.013	156.209

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	13.864
Methanol	1.049	16.430
Ethanol	1.326	34.663
Acetone	1.483	11.930
Isopropanol	1.569	63.422
n-Propanol	2.344	159.266



# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized Agencies is PROHIBITED.  
Scottsdale City Prosecutor

Sample: 0.400 Lipomed 05012012-C	Item number:
Injection date: 9/13/2016 7:42:34 PM	Vial: 7
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan AJ
Data file: C:\Chem32\1\Data\13Sep16\7.D	

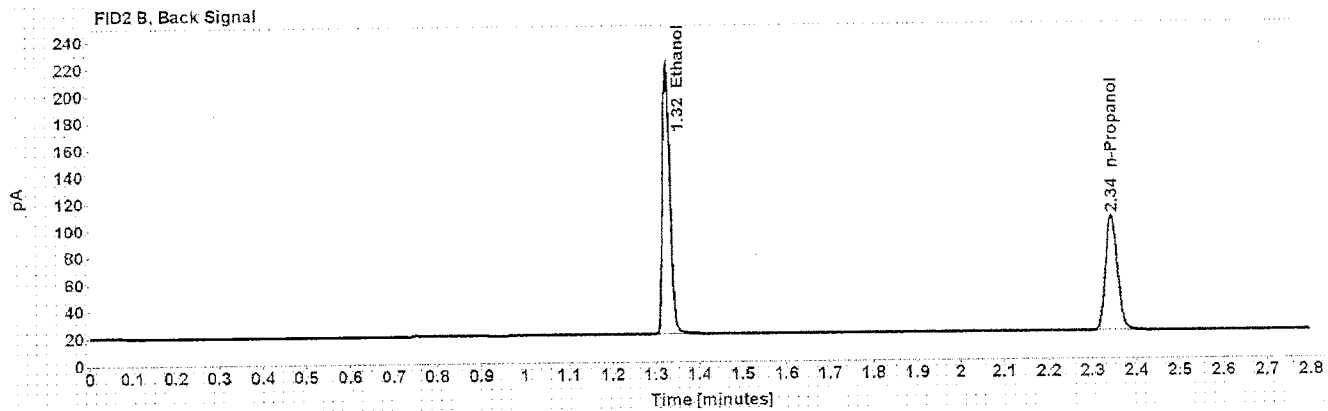
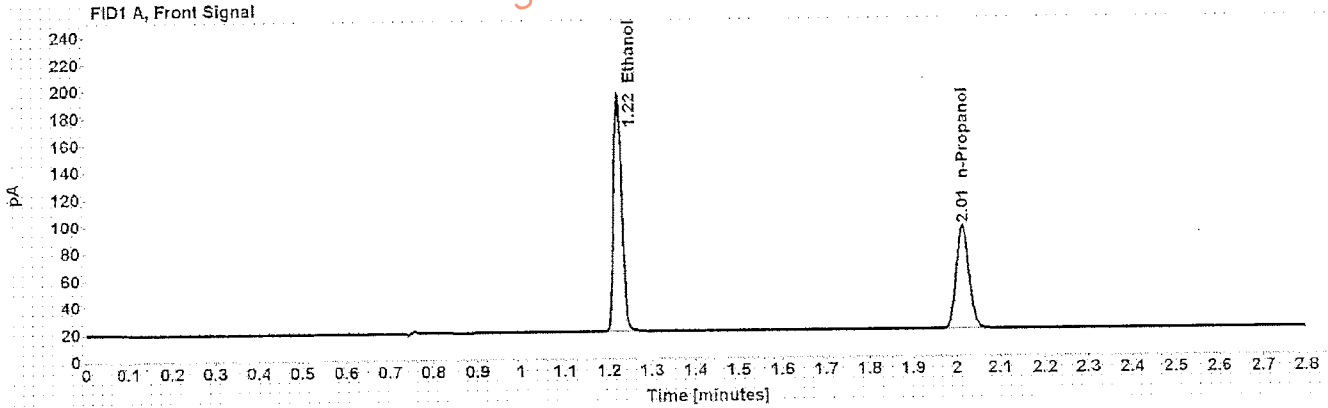


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3988	1.222	232.916
n-Propanol	-----	2.013	158.135

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

Compound	Time (min)	Peak Area
Ethanol	1.325	239.928
n-Propanol	2.343	161.234

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.040 Lipomed 30112011-B	Item number:
Injection date: 9/13/2016 7:46:34 PM	Vial: 8
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem3211\Data\13Sep16\8.D	

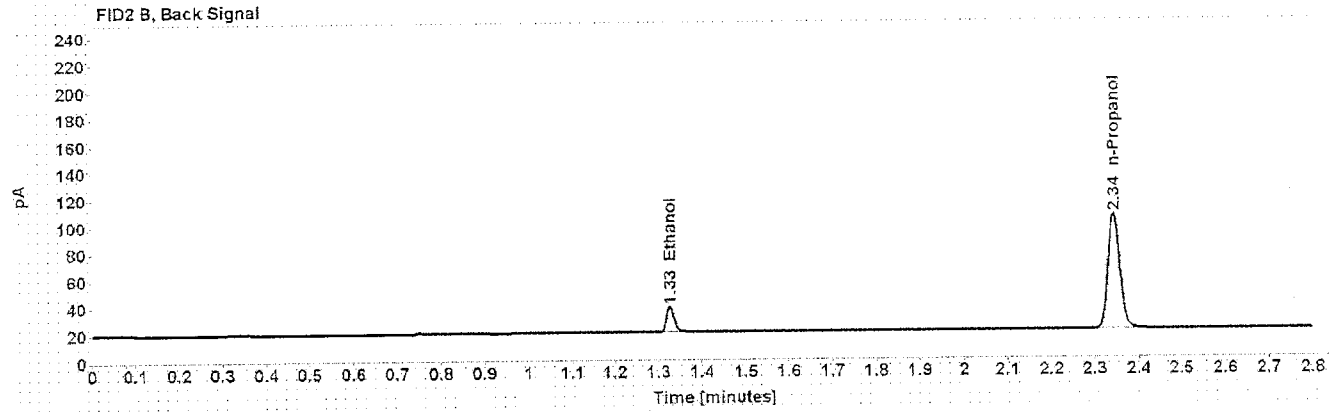
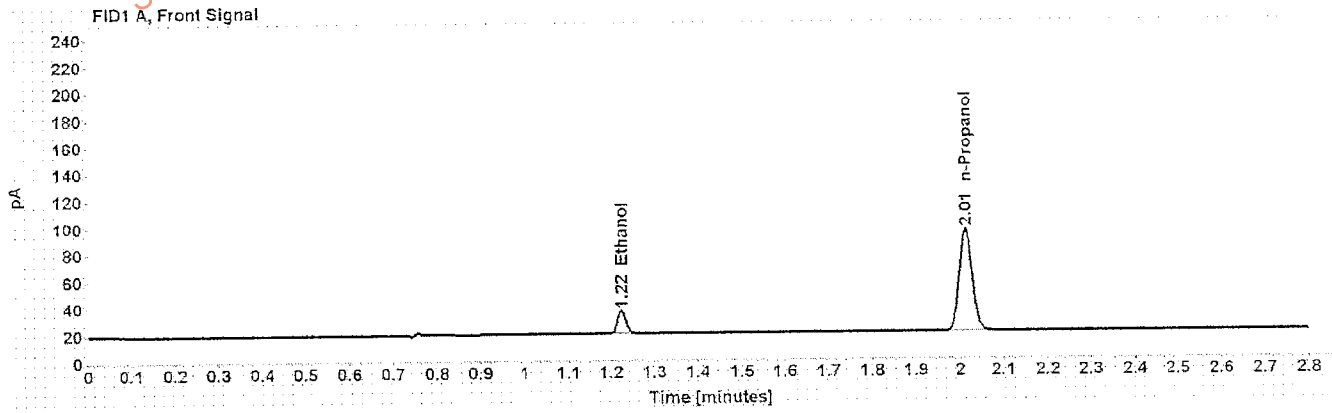


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0393	1.224	22.379
n-Propanol	-----	2.013	157.306

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

Compound	Time (min)	Peak Area
Ethanol	1.327	22.754
n-Propanol	2.343	160.617

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 9/13/2016 7:50:34 PM	Vial: 9
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023-CN14160045	Analyst: Langan AJ
Data file: C:\Chem3211\Data\13Sep16\9.D	

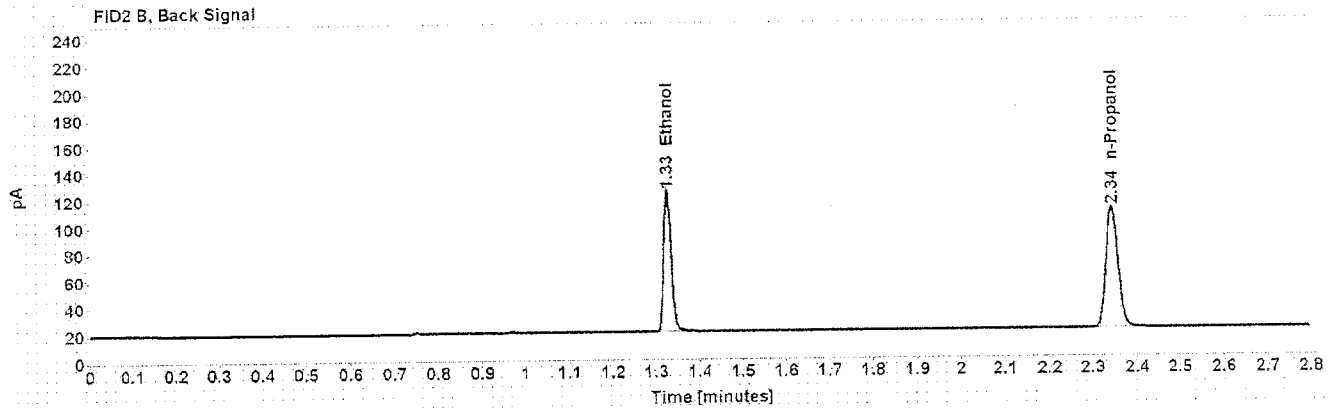
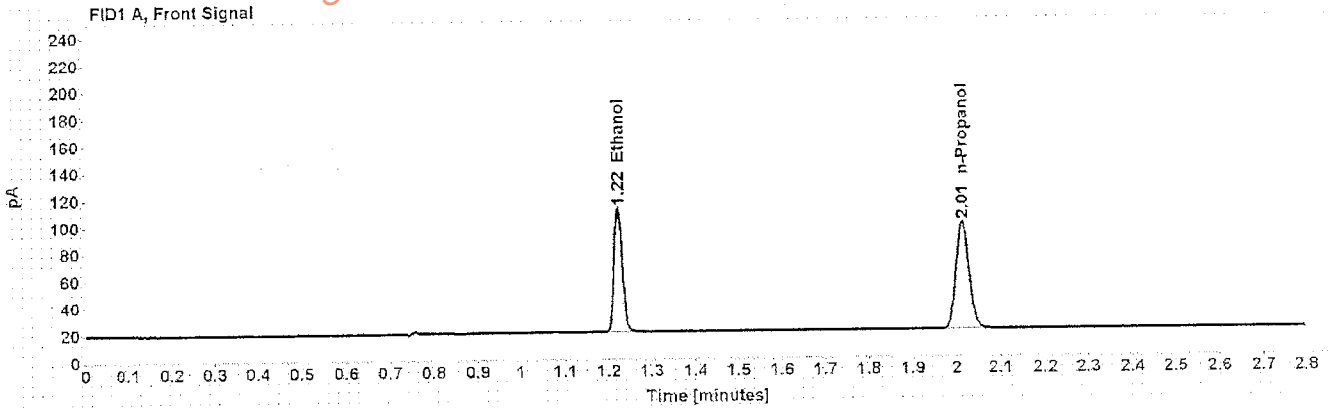


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2016	1.223	122.307
n-Propanol	-----	2.013	164.608

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

Compound	Time (min)	Peak Area
Ethanol	1.326	125.294
n-Propanol	2.344	168.176

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.080 Lipomed 14112011-A	Item number:
Injection date: 9/13/2016 8:35:04 PM	Vial: 20
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>PL</i>
Data file: C:\Chem32\1\Data\13Sep16\20.D	

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized Agencies is PROHIBITED. Scottsdale City Prosecutor

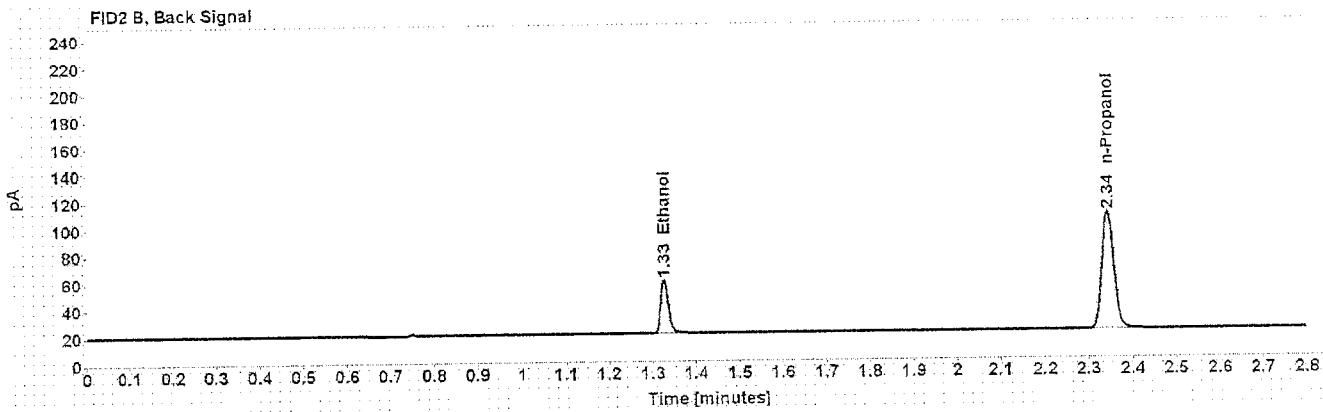
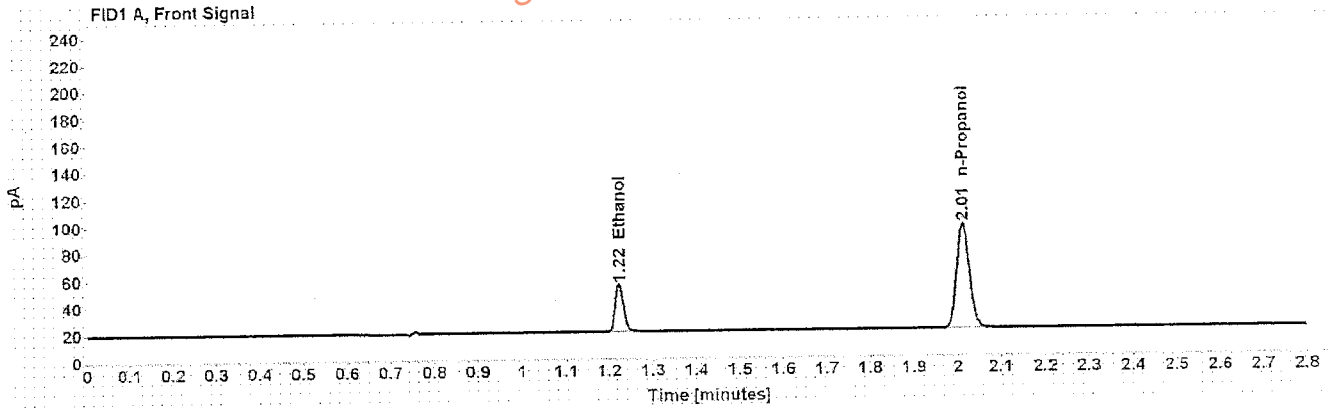


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0792	1.223	46.437
n-Propanol	-----	2.013	160.200

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

Compound	Time (min)	Peak Area
Ethanol	1.326	47.655
n-Propanol	2.344	163.744

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.150 Lipomed 11012012-C	<b>Item number:</b>
<b>Injection date:</b> 9/13/2016 9:19:34 PM	<b>Vial:</b> 31
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 13Sep16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan AJ
<b>Data file:</b> C:\Chem3211\Data\13Sep16\31.D	

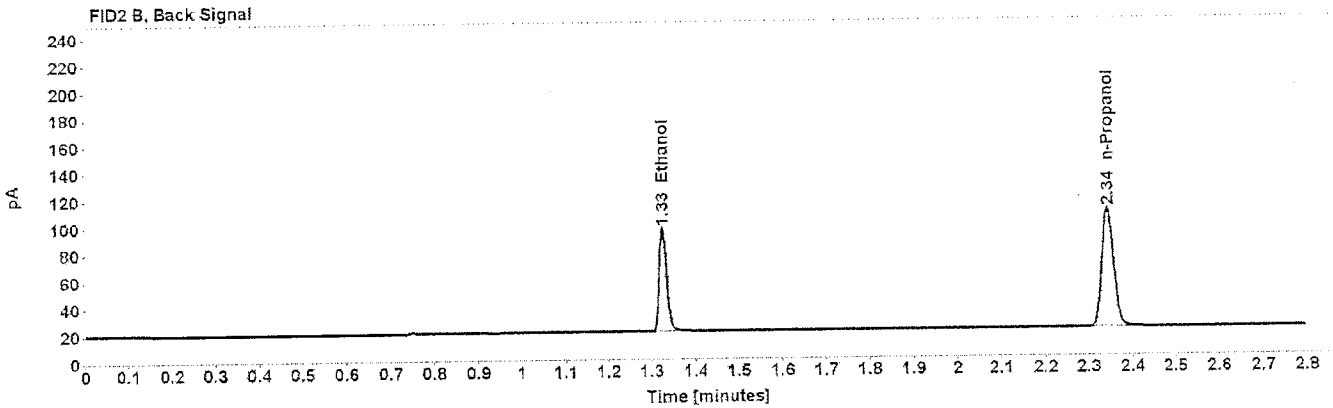
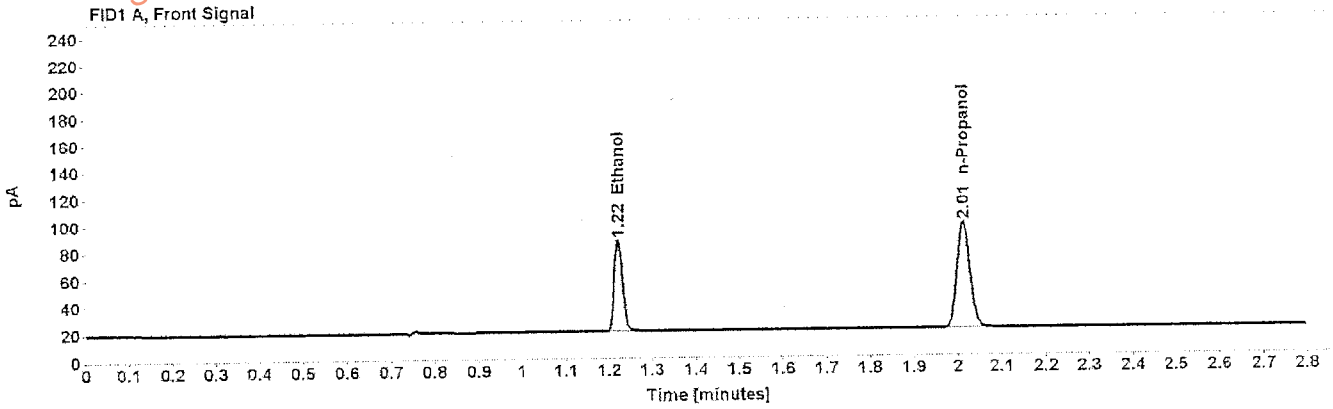


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1507	1.223	89.745
n-Propanol	-----	2.013	161.876

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

Compound	Time (min)	Peak Area
Ethanol	1.325	92.275
n-Propanol	2.343	165.596

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 9/13/2016 10:03:49 PM	Vial: 42
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023-CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem3211\Data\13Sep16\42.D	

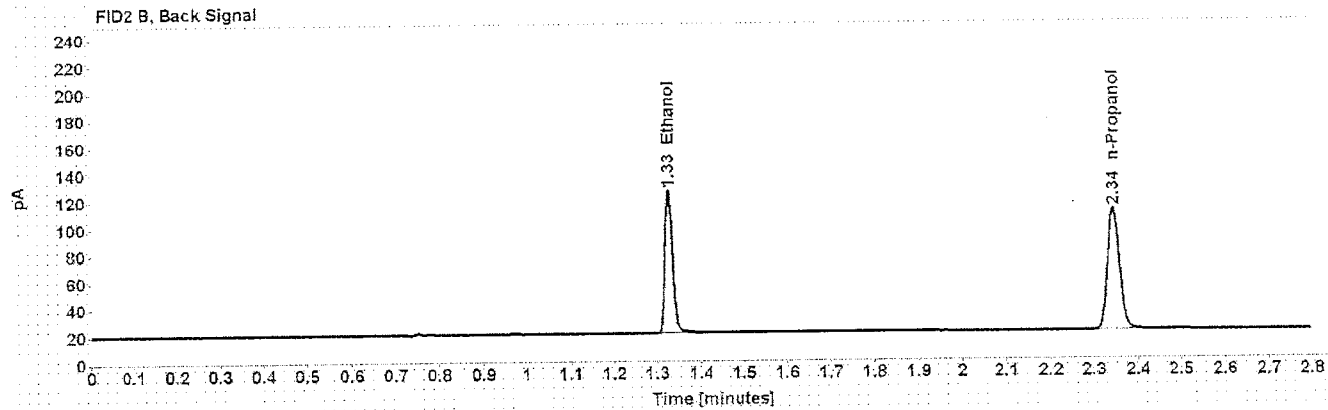
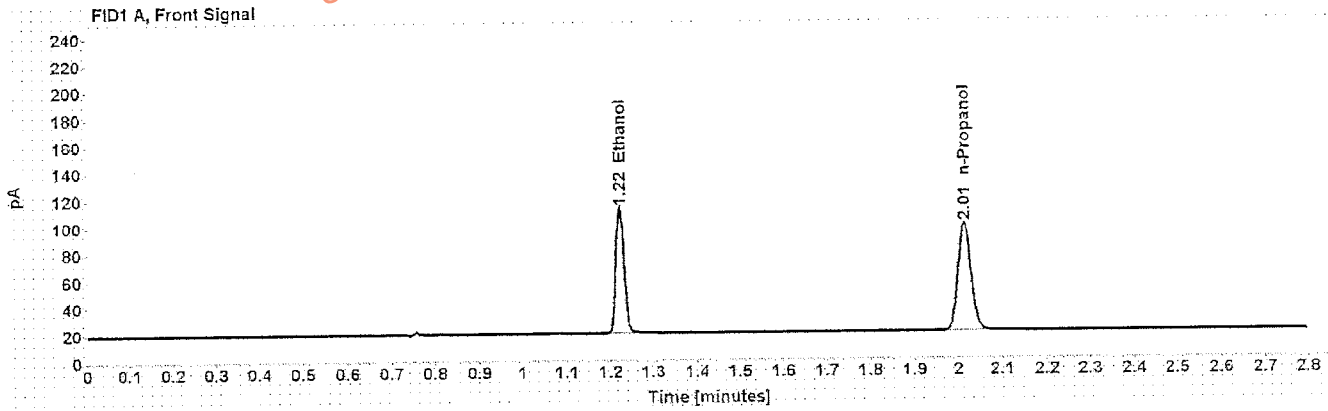


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2025	1.223	123.254
n-Propanol	-----	2.014	165.166

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

Compound	Time (min)	Peak Area
Ethanol	1.326	126.716
n-Propanol	2.344	169.617

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.080 Lipomed 14112011-A	Item number:
Injection date: 9/13/2016 10:48:19 PM	Vial: 53
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\13Sep16\53.D	

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

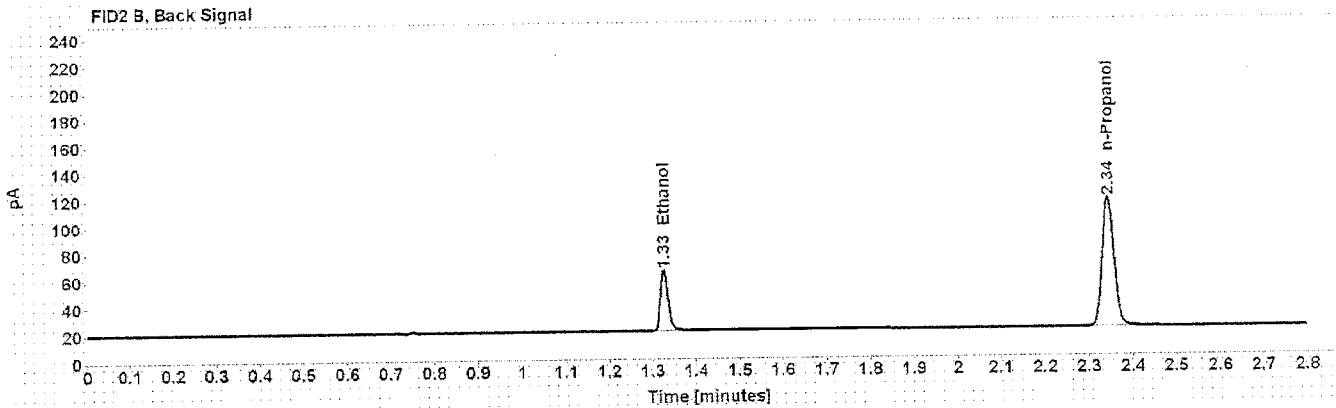
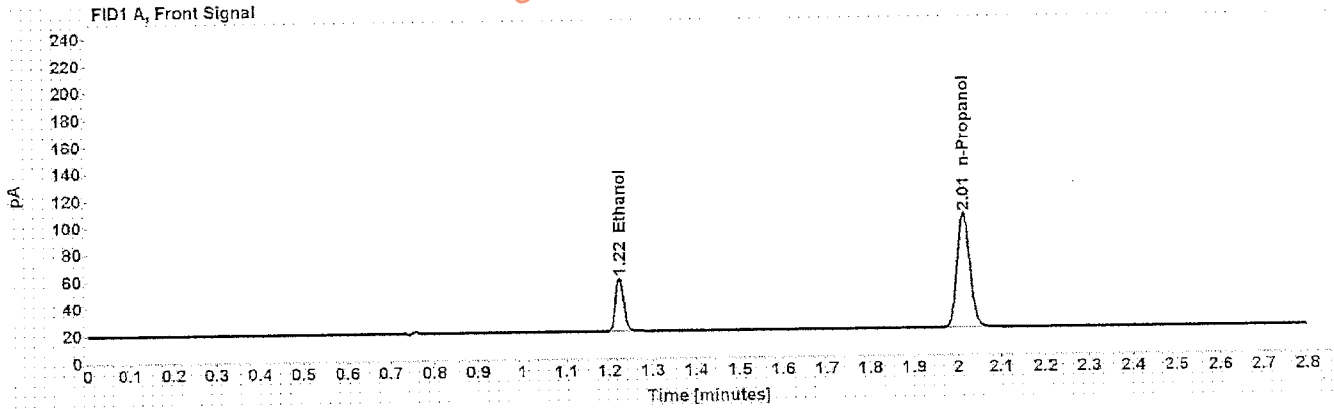


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0814	1.223	52.401
n-Propanol	-----	2.013	175.715

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

Compound	Time (min)	Peak Area
Ethanol	1.326	53.808
n-Propanol	2.344	180.113

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number:
Injection date: 9/13/2016 11:32:49 PM	Vial: 64
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan, A
Data file: C:\Chem321\1Data\13Sep16\58.D	

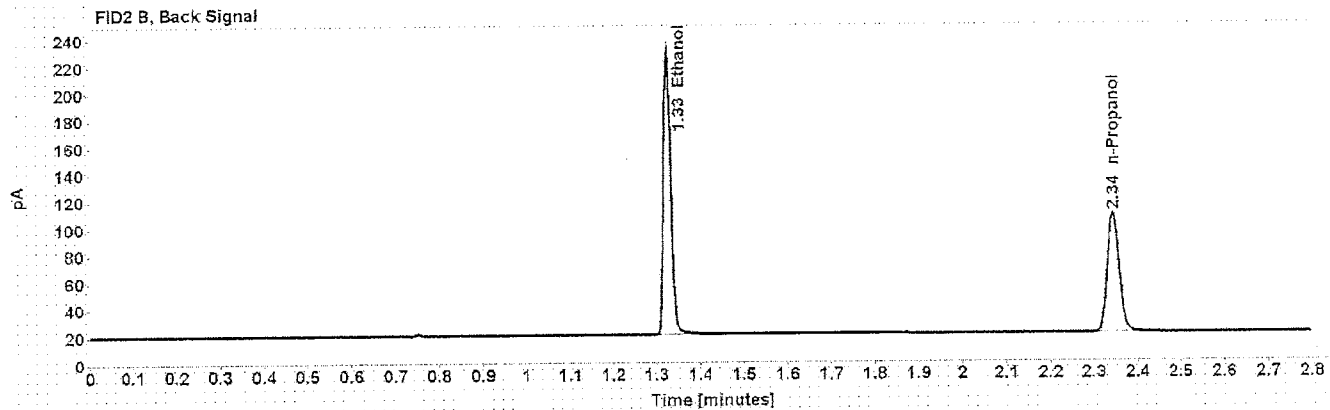
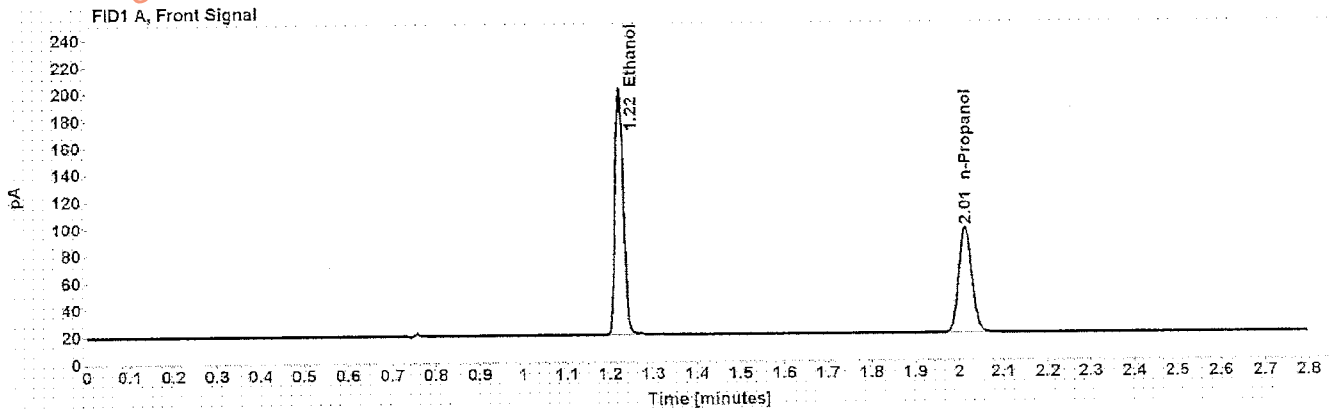


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4031	1.222	241.770
n-Propanol	-----	2.013	162.389

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

Compound	Time (min)	Peak Area
Ethanol	1.325	249.922
n-Propanol	2.344	166.714



# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED. Scottsdale City Prosecutor is PROHIBITED.

Sample:	0.04 Lipomed 30112011-B	Item number:	
Injection date:	9/13/2016 11:36:48 PM	Vial:	65
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023-CN14160045	Analyst:	Langan <i>RL</i>
Data file:	C:\Chem32\11\Data\13Sep16\59.D		

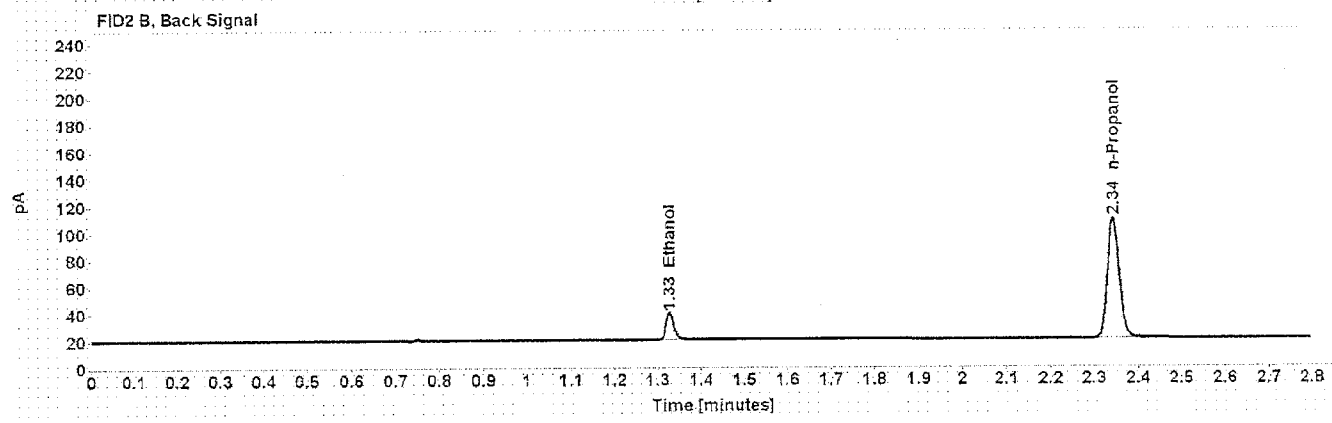
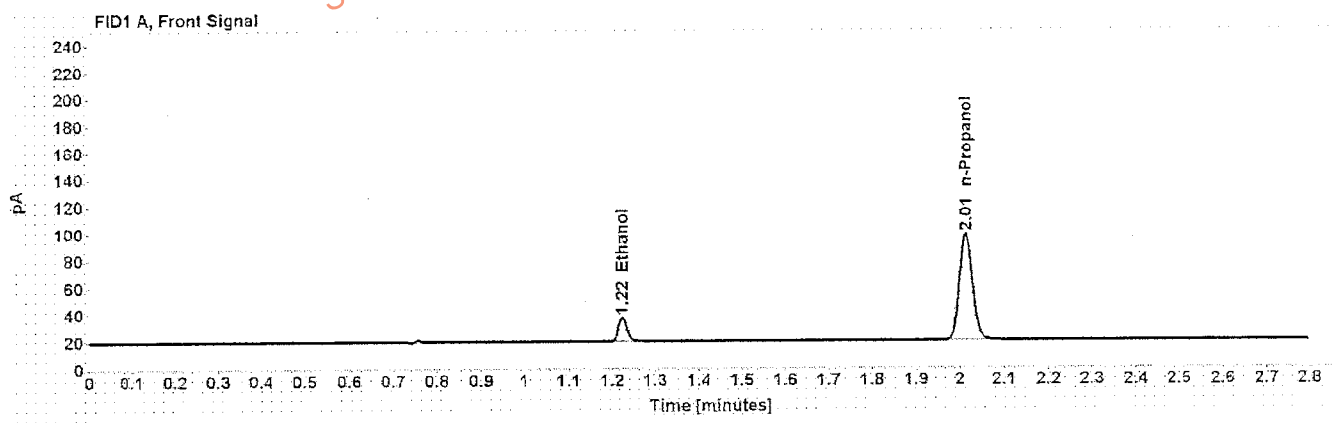


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0400	1.224	23.663
n-Propanol	-----	2.013	163.148

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

Compound	Time (min)	Peak Area
Ethanol	1.327	24.129
n-Propanol	2.344	167.402

# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 9/13/2016 11:40:48 PM	Vial: 66
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan M
Data file: C:\Chem32\1\Data\13Sep16\60.D	

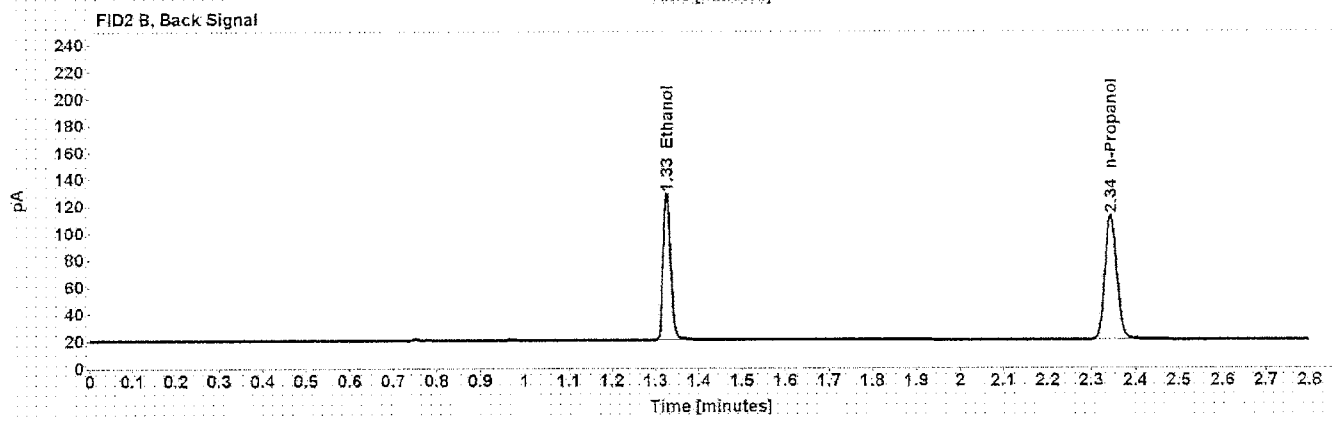
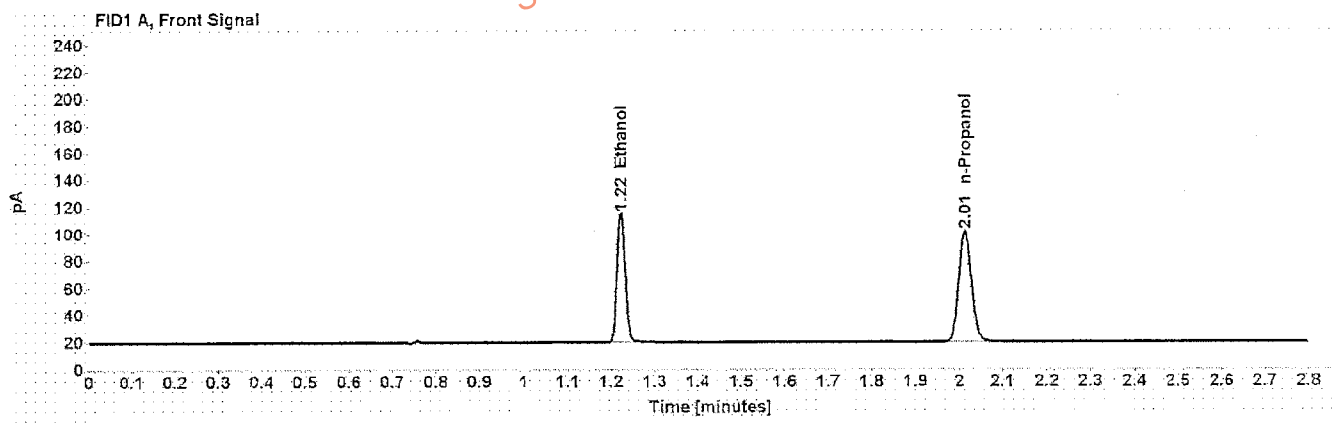


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2031	1.223	126.207
n-Propanol	-----	2.013	168.581

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

Compound	Time (min)	Peak Area
Ethanol	1.326	130.072
n-Propanol	2.344	173.357

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number:
Injection date: 9/13/2016 11:45:03 PM	Vial: 67
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan A
Data file: C:\Chem32\1\Data\13Sep16\61.D	

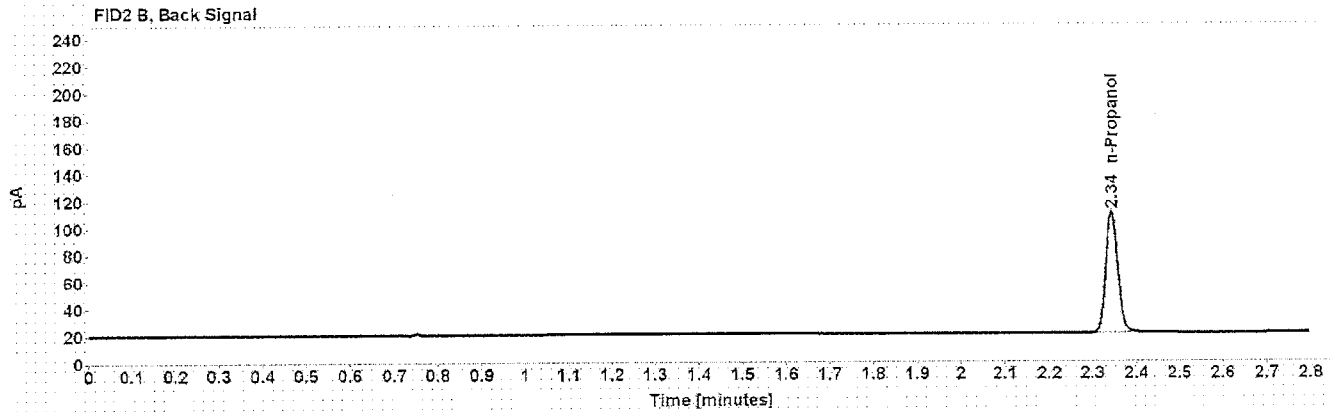
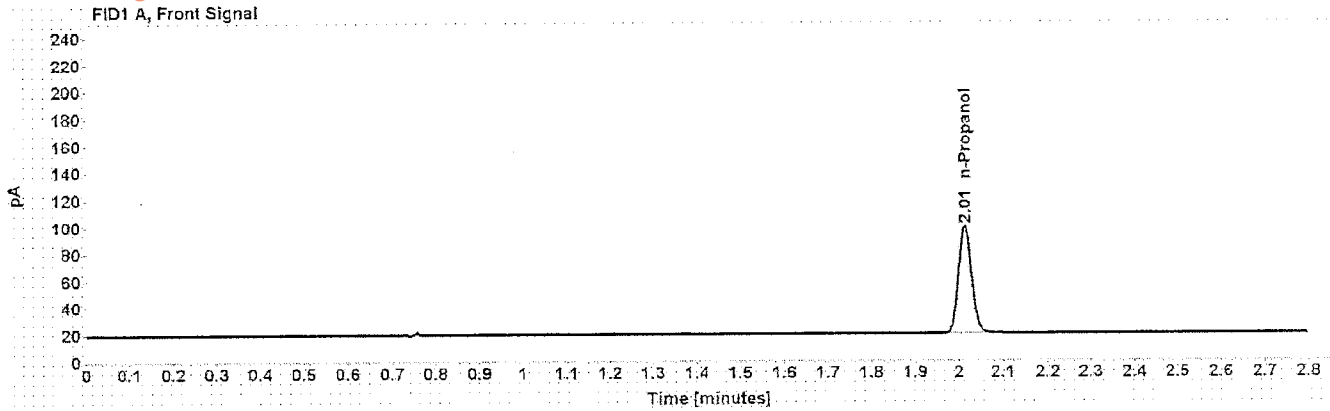


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	164.799

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	169.386

# Sequence Summary

Sequence name: 13Sep16 Instrument: US14173023 CN14160045 Analyst: Langan

Vial	Sample	Type	Item Number	Method
1	0.020 Cerilliant FN08101401	Calibration		ethanol quant.M
2	0.100 Cerilliant FN06181501	Calibration		ethanol quant.M
3	0.200 Cerilliant FN07201602	Calibration		ethanol quant.M
4	0.400 Cerilliant FN11191402	Calibration		ethanol quant.M
5	blank 110215	Control		ethanol quant.M
6	volatiles mix 030916 ASL	Control		ethanol quant.M
7	0.400 Lipomed 05012012-C	Control		ethanol quant.M
8	0.040 Lipomed 30112011-B	Control		ethanol quant.M
9	0.20 ACQ 402101060/6	Control		ethanol quant.M
10	L16 [REDACTED]	Sample	1108175	ethanol quant.M
11	L16 [REDACTED]	Sample	1108175	ethanol quant.M
12	L16 [REDACTED]	Sample	1111769	ethanol quant.M
13	L16 [REDACTED]	Sample	1111769	ethanol quant.M
14	L16 [REDACTED]	Sample	1111609	ethanol quant.M
15	L16 [REDACTED]	Sample	1111609	ethanol quant.M
16	L16 [REDACTED]	Sample	1111431	ethanol quant.M
17	L16 [REDACTED]	Sample	1111431	ethanol quant.M
18	L16 [REDACTED]	Sample	1113298	ethanol quant.M
19	L16 [REDACTED]	Sample	1113298	ethanol quant.M
20	0.080 Lipomed 14112011-A	Control		ethanol quant.M
21	L16 [REDACTED]	Sample	1110511	ethanol quant.M
22	L16 [REDACTED]	Sample	1110511	ethanol quant.M
23	L16 [REDACTED]	Sample	1111226	ethanol quant.M
24	L16 [REDACTED]	Sample	1111226	ethanol quant.M
25	L16 [REDACTED]	Sample	1111060	ethanol quant.M
26	L16 [REDACTED]	Sample	1111060	ethanol quant.M
27	L16 [REDACTED]	Sample	1110762	ethanol quant.M
28	L16 [REDACTED]	Sample	1110762	ethanol quant.M
29	L16 [REDACTED]	Sample	1111434	ethanol quant.M
30	L16 [REDACTED]	Sample	1111434	ethanol quant.M
31	0.150 Lipomed 11012012-C	Control		ethanol quant.M
32	L16 [REDACTED]	Sample	1108979	ethanol quant.M
33	L16 [REDACTED]	Sample	1108979	ethanol quant.M
34	L16 [REDACTED]	Sample	267-01A	ethanol quant.M
35	L16 [REDACTED]	Sample	267-01A	ethanol quant.M
36	L16 [REDACTED]	Sample	267-01A	ethanol quant.M
37	L16 [REDACTED]	Sample	267-01A	ethanol quant.M
38	L16 [REDACTED]	Sample	982866	ethanol quant.M
39	L16 [REDACTED]	Sample	982866	ethanol quant.M
40	L16 [REDACTED]	Sample	1068976	ethanol quant.M
41	L16 [REDACTED]	Sample	1068976	ethanol quant.M
42	0.20 ACQ 402101060/6	Control		ethanol quant.M
43	L16 [REDACTED]	Sample	1113459	ethanol quant.M
44	L16 [REDACTED]	Sample	1113459	ethanol quant.M
45	L16 [REDACTED]	Sample	1113327	ethanol quant.M
46	L16 [REDACTED]	Sample	1113327	ethanol quant.M
47	L16 [REDACTED]	Sample	1111433	ethanol quant.M

# Sequence Summary

48	L1	[REDACTED]	Sample	1111433	ethanol quant.M
49	L1	[REDACTED]	Sample	1086016	ethanol quant.M
50	L1	[REDACTED]	Sample	1086016	ethanol quant.M
51	L1	[REDACTED]	Sample	1113482	ethanol quant.M
52	L1	[REDACTED]	Sample	1113482	ethanol quant.M
53		0.080 Lipomed 14112011-A	Control		ethanol quant.M
54	L1	[REDACTED]	Sample	1112191	ethanol quant.M
55	L1	[REDACTED]	Sample	1112191	ethanol quant.M
56	L1	[REDACTED]	Sample	1113787	ethanol quant.M
57	L1	[REDACTED]	Sample	1113787	ethanol quant.M
58		0.20 ACQ 407041529/3	Control		ethanol quant.M
59		0.20 ACQ 407041529/3	Control		ethanol quant.M
60		0.30 Lipomed 18052015-A/1	Control		ethanol quant.M
61		0.30 Lipomed 18052015-A/1	Control		ethanol quant.M
62		0.04 Lipomed 09022015-A	Control		ethanol quant.M
63		0.04 Lipomed 09022015-A	Control		ethanol quant.M
64		0.40 Lipomed 05012012-C	Control		ethanol quant.M
65		0.04 Lipomed 30112011-B	Control		ethanol quant.M
66		0.20 ACQ 402101060/6	Control		ethanol quant.M
67		blank 110215	Control		ethanol quant.M

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
 Scottsdale City Prosecutor

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY  
 SEQUENCE SUMMARY OF CASES

SEQUENCE NAME: 13Sep16 A

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1920	0.1929	0.19245	0.23	0.00045
12 13	0.1592	0.1612	0.16020	0.62	0.00100
14 15	0.0959	0.0971	0.09650	0.62	0.00060
16 17	0.0893	0.0889	0.08910	0.22	0.00020
18 19	0.2559	0.2329	0.24440	4.71	0.01150
21 22	0.2107	0.2133	0.21200	0.61	0.00190
23 24	0.1930	0.1963	0.19465	0.85	0.00165
25 26	0.2359	0.2387	0.23730	0.59	0.00140
27 28	0.1026	0.1016	0.10210	0.49	0.00050
29 30	0.1801	0.1803	0.18020	0.06	0.00010
32 33	0.2255	0.2235	0.22450	0.45	0.00100
34 35	0.1842	0.1828	0.18350	0.38	0.00070
36 37	0.1917	0.1878	0.18975	1.03	0.00195
38 39	0.0000	0.0000	0.00000	0.00	0.00000
40 41	0.1206	0.1191	0.11985	0.63	0.00075
43 44	0.2388	0.2337	0.23625	1.08	0.00255
45 46	0.0694	0.0688	0.06910	0.43	0.00030
47 48	0.1013	0.1027	0.10200	0.69	0.00070
49 50	0.1008	0.0996	0.10020	0.60	0.00060
51 52	0.1095	0.1097	0.10960	0.09	0.00010
54 55	0.3190	0.3168	0.31790	0.35	0.00110
56 57	0.0612	0.0610	0.06110	0.16	0.00010
58 59	0.2015	0.2029	0.20220	0.35	0.00070
60 61	0.3066	0.3024	0.30450	0.69	0.00210
62 63	0.0396	0.0400	0.03980	0.50	0.00020

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

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1108175
Injection date: 9/13/2016 7:54:33 PM	Vial: 10
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\13Sep16\10.D	

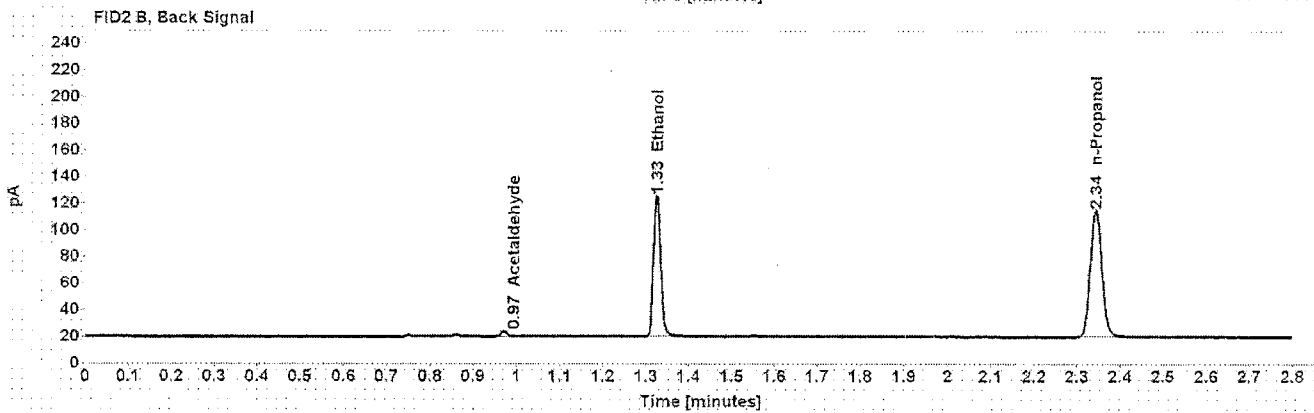
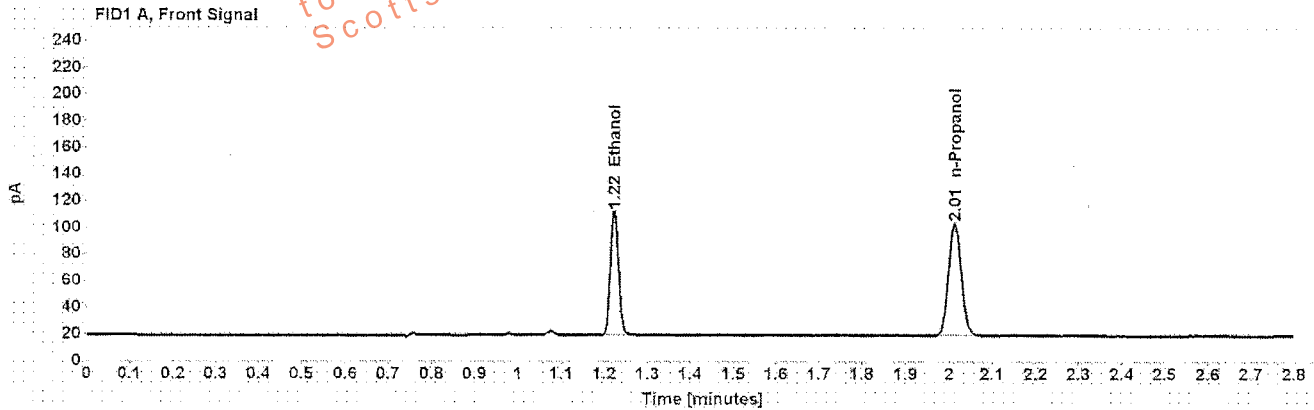


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1920	1.223	123.237
n-Propanol	-----	2.013	174.197

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.774
Ethanol	1.325	126.569
n-Propanol	2.344	178.324

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1108175
Injection date: 9/13/2016 7:58:33 PM	Vial: 11
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\13Sep16\11.D	

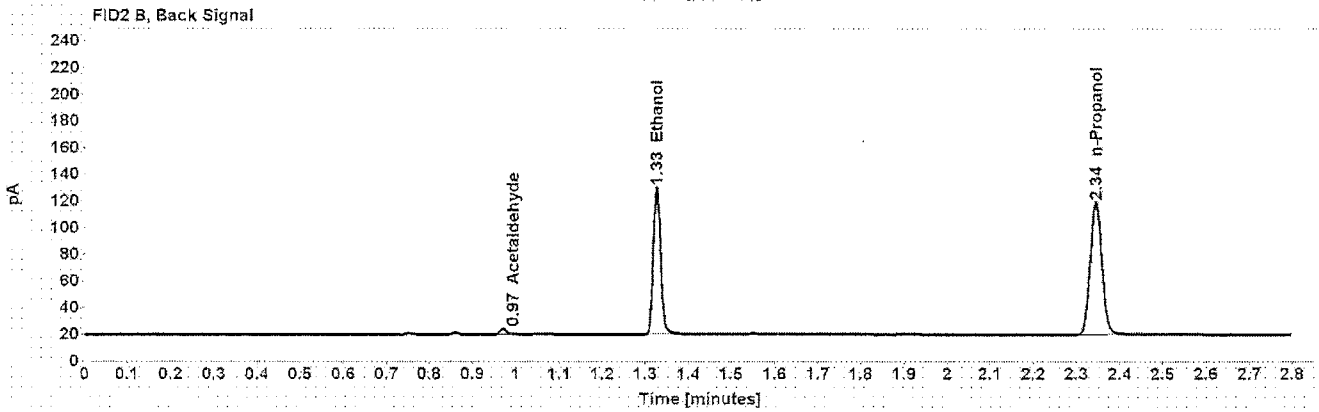
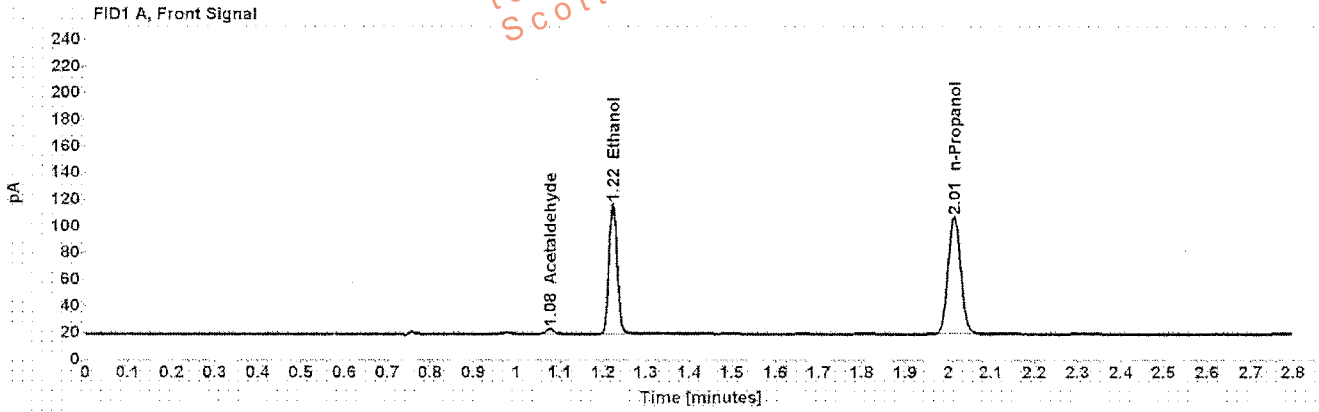


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	3.976
>Ethanol	0.1929	1.223	129.323
n-Propanol	-----	2.013	181.957

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.250
Ethanol	1.326	132.906
n-Propanol	2.344	186.470



Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111769  
Injection date: 9/13/2016 8:02:34 PM Vial: 12  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem321\Data\13Sep16\12.D

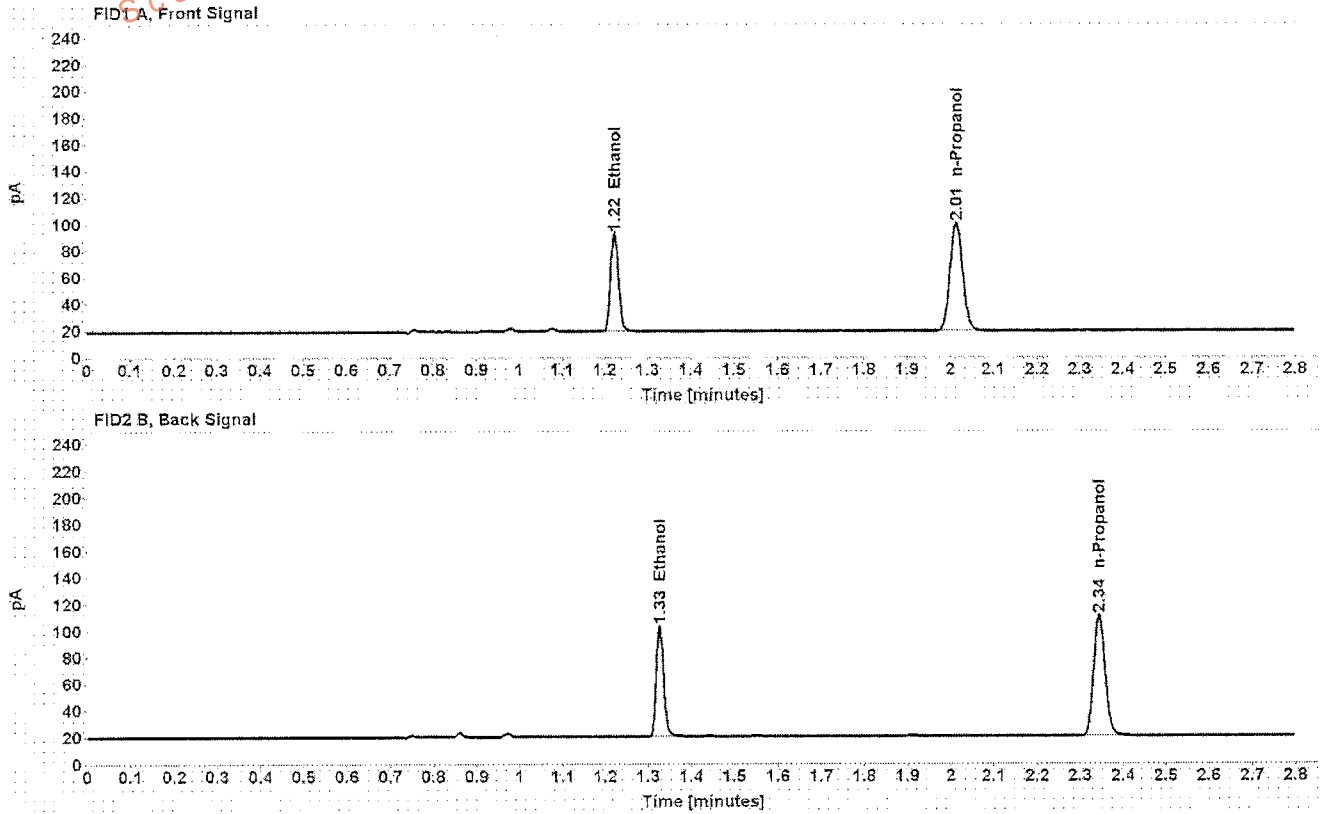


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1592	1.223	97.609
n-Propanol	-----	2.014	166.557

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

Compound	Time (min)	Peak Area
Ethanol	1.326	100.244
n-Propanol	2.344	170.760

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111769  
Injection date: 9/13/2016 8:06:49 PM Vial: 13  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\1\Data\13Sep16\13.D

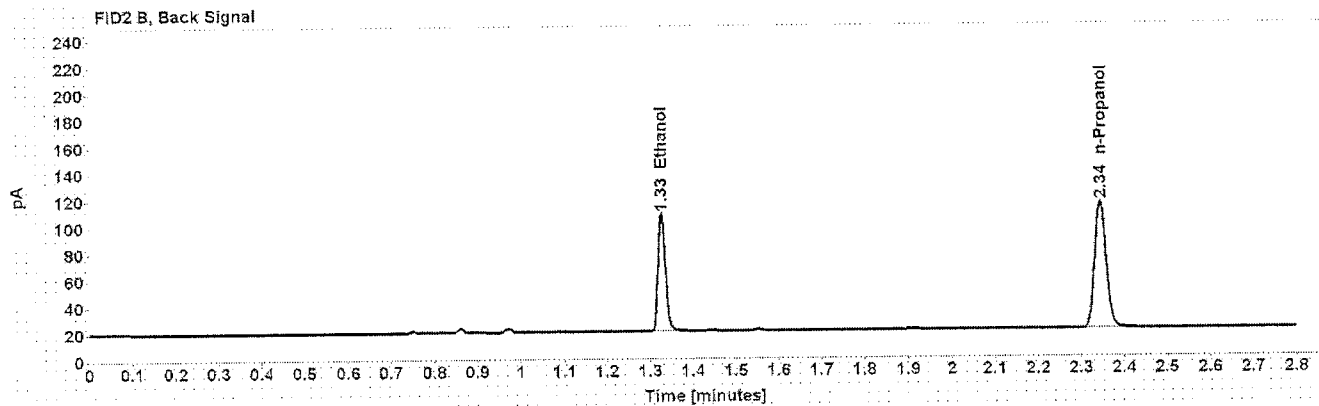
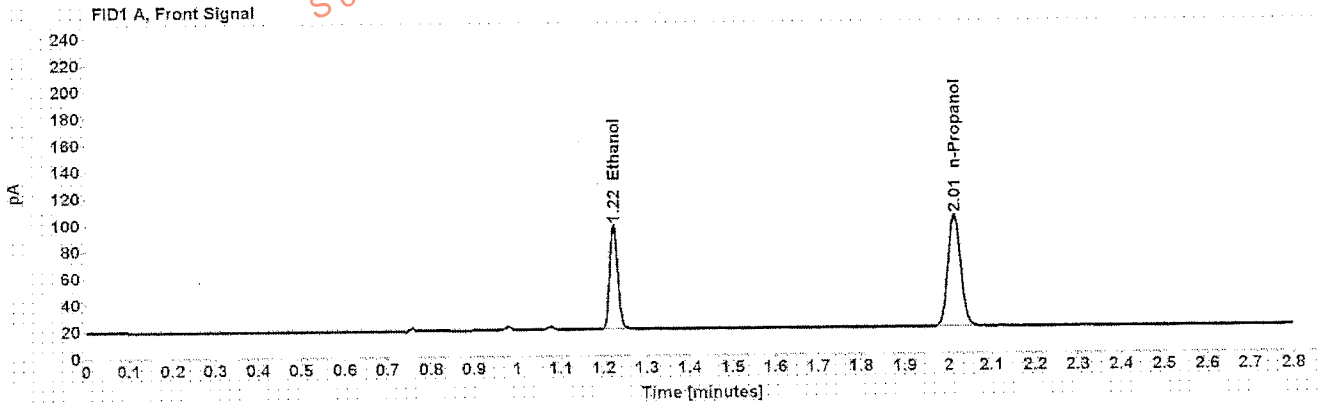


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1612	1.223	102.898
n-Propanol	-----	2.014	173.407

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

Compound	Time (min)	Peak Area
Ethanol	1.327	105.767
n-Propanol	2.345	178.238

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1111609
Injection date: 9/13/2016 8:10:48 PM	Vial: 14
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\13Sep16\14.D	

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
 Scottsdale City Prosecutor

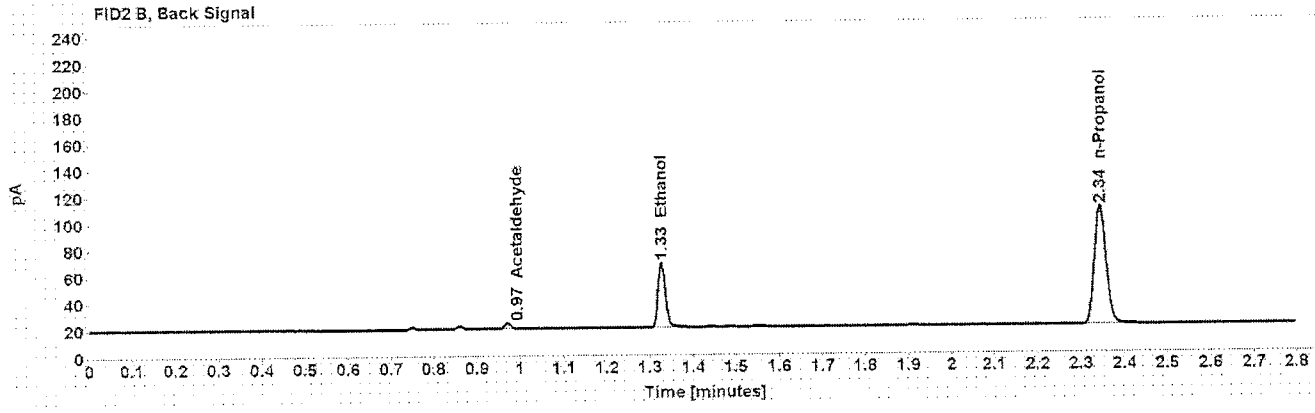
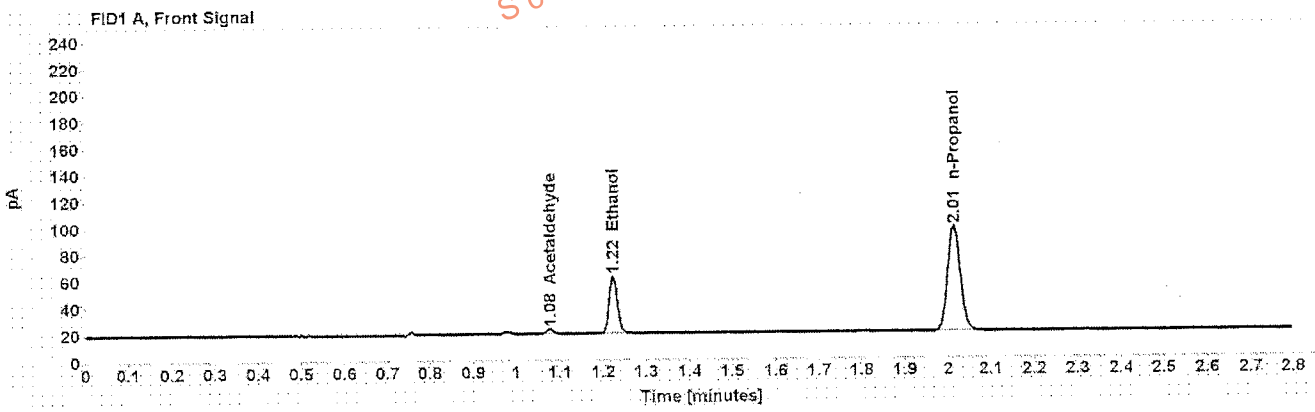


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.052
>Ethanol	0.0959	1.223	57.167
n-Propanol	-----	2.014	162.527

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.318
Ethanol	1.326	58.666
n-Propanol	2.344	166.806

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1111609
Injection date: 9/13/2016 8:14:48 PM	Vial: 15
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14473023 CN14160045	Analyst: Langan
Data file: C:\Chem321\Data\13Sep16\15.D	

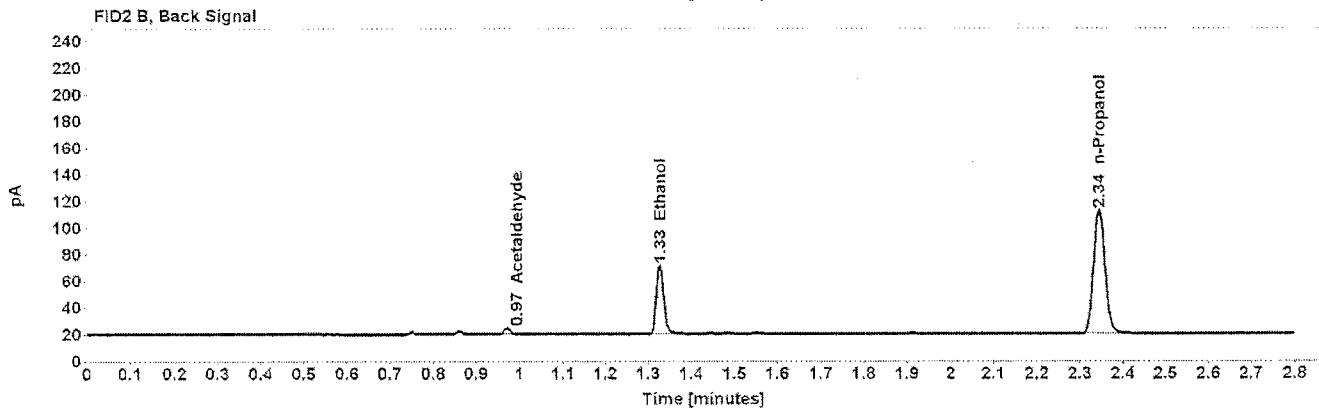
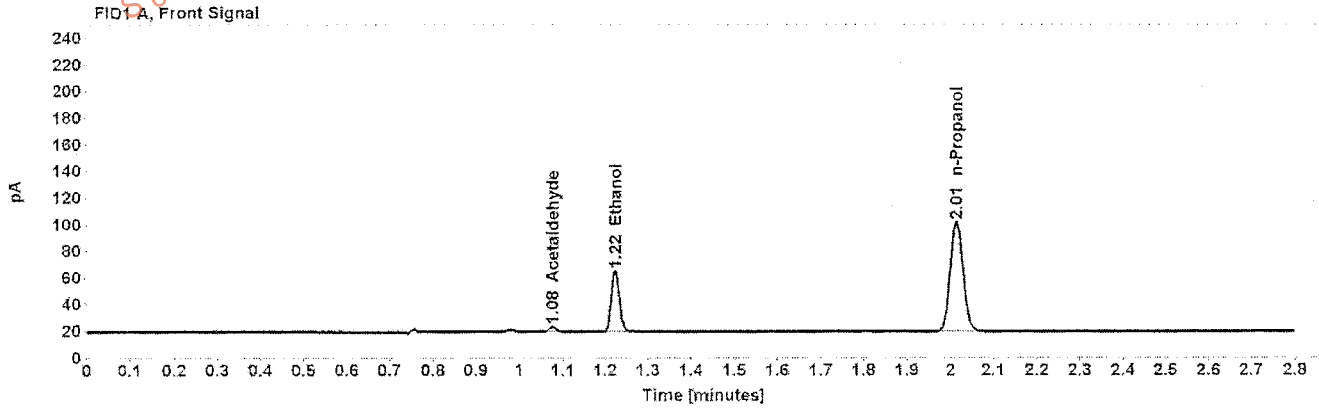


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.162
>Ethanol	0.0971	1.224	60.507
n-Propanol	-----	2.014	169.887

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.432
Ethanol	1.327	62.033
n-Propanol	2.344	174.252

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111431  
Injection date: 9/13/2016 8:18:49 PM Vial: 16  
Method: ethanol quant M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\11\Data\13Sep16\16.D

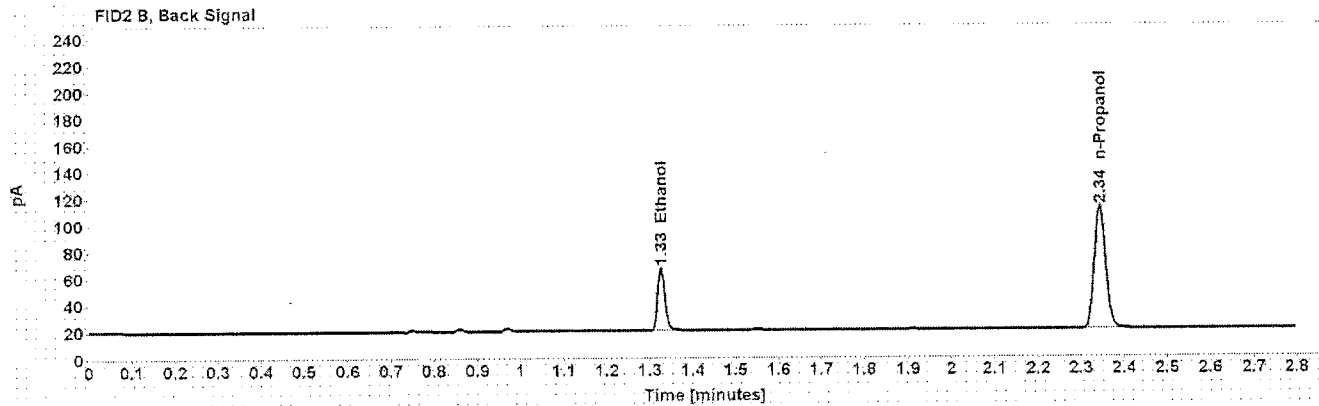
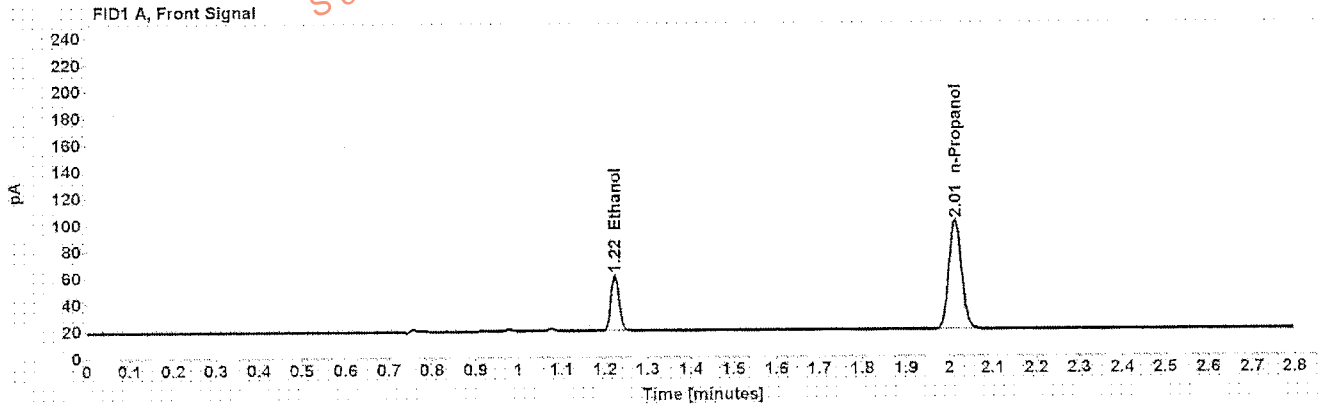


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0893	1.223	55.266
n-Propanol	-----	2.013	168.862

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

Compound	Time (min)	Peak Area
Ethanol	1.326	56.642
n-Propanol	2.344	172.993

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1111431
Injection date: 9/13/2016 8:22:48 PM	Vial: 17
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\13Sep16\17.D	

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
 Scottsdale City Prosecutor

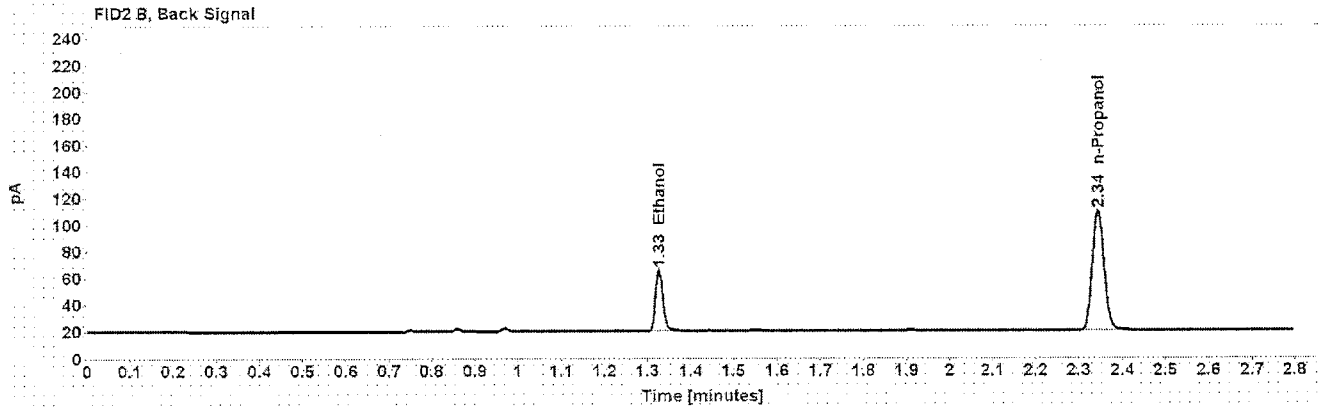
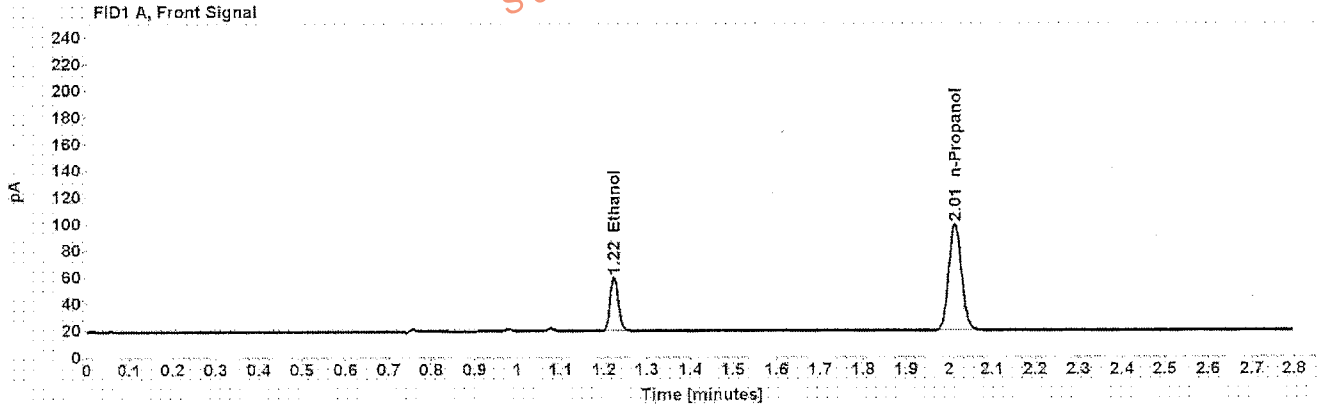


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0889	1.223	53.796
n-Propanol	-----	2.013	165.118

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

Compound	Time (min)	Peak Area
Ethanol	1.326	55.197
n-Propanol	2.344	169.181

Case: [REDACTED] User: alangan 9/14/2016

VOID

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1113298
Injection date:	9/13/2016 8:26:48 PM	Vial:	18
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\13Sep16\18.D		

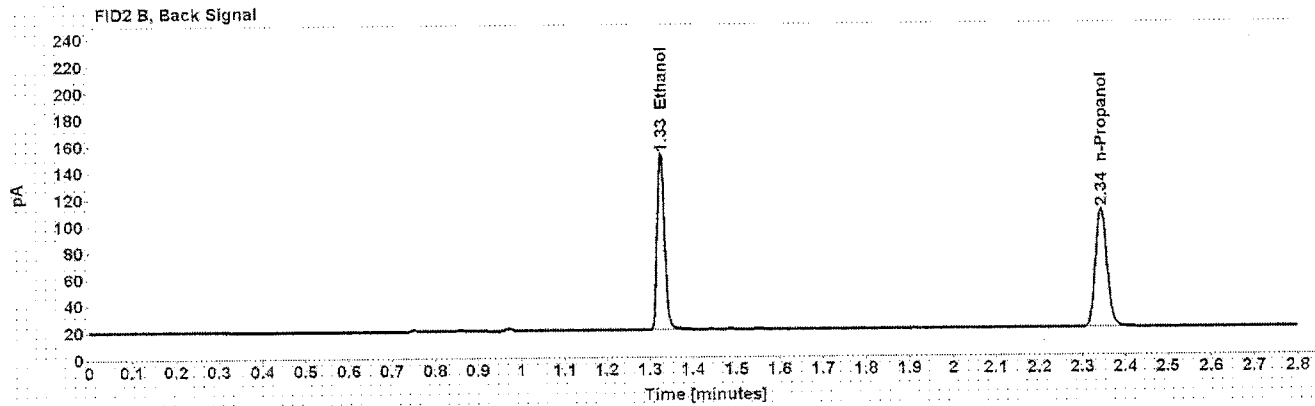
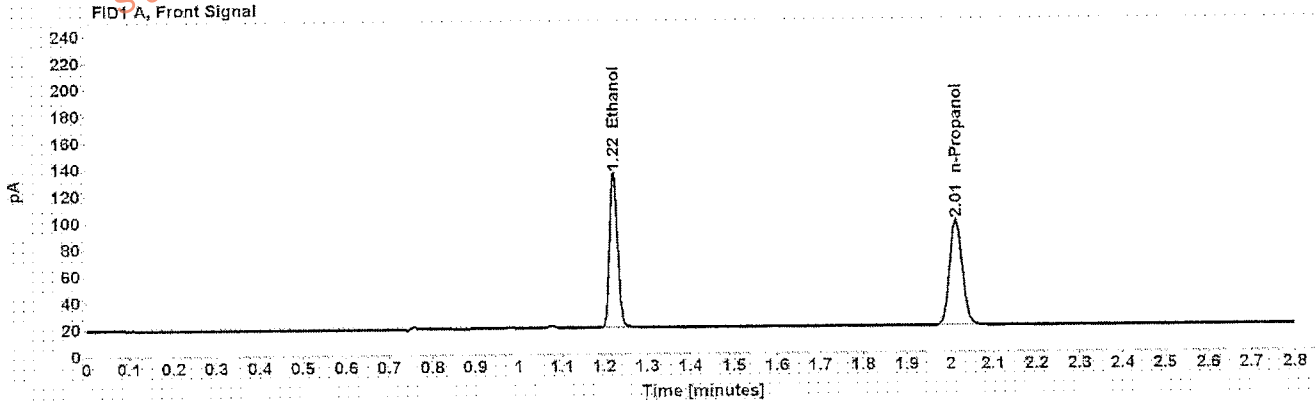


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2559	1.223	153.809
n-Propanol	-----	2.013	162.950

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

Compound	Time (min)	Peak Area
Ethanol	1.325	158.433
n-Propanol	2.344	166.802

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113298  
Injection date: 9/13/2016 8:31:04 PM Vial: 19  
Method: ethanol quant M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\19.D

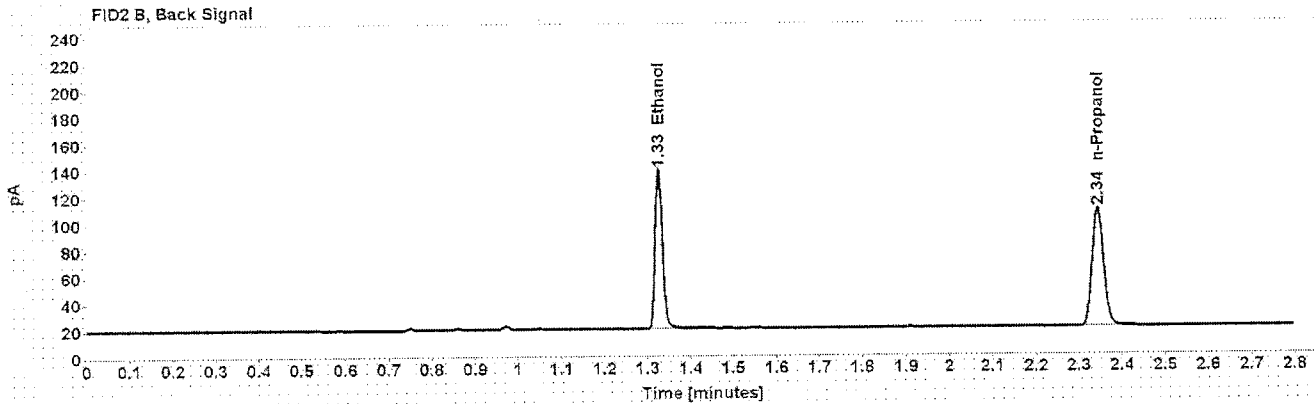
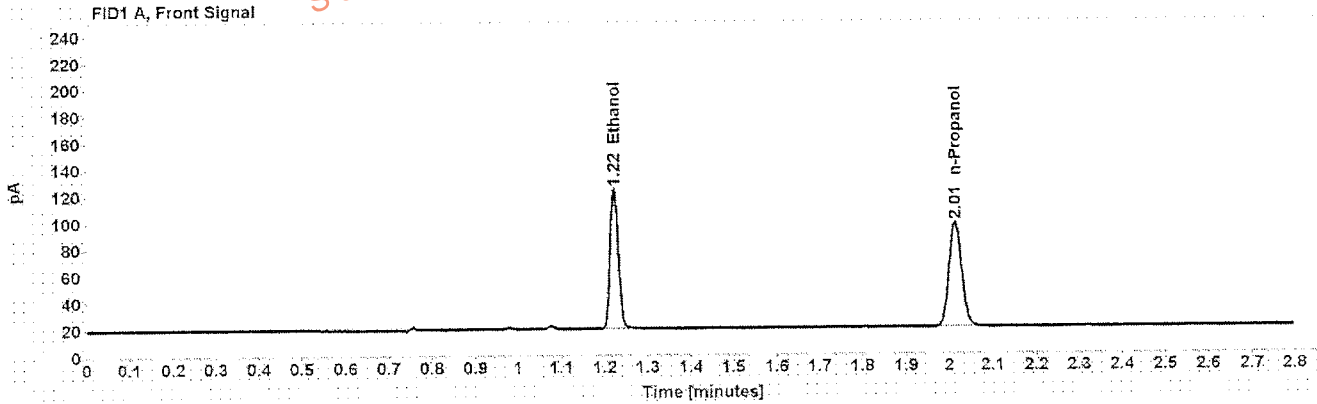


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2329	1.223	139.293
n-Propanol	-----	2.014	162.195

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

Compound	Time (min)	Peak Area
Ethanol	1.326	144.317
n-Propanol	2.344	166.106



Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1110511  
Injection date: 9/13/2016 8:39:04 PM Vial: 21  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\21.D

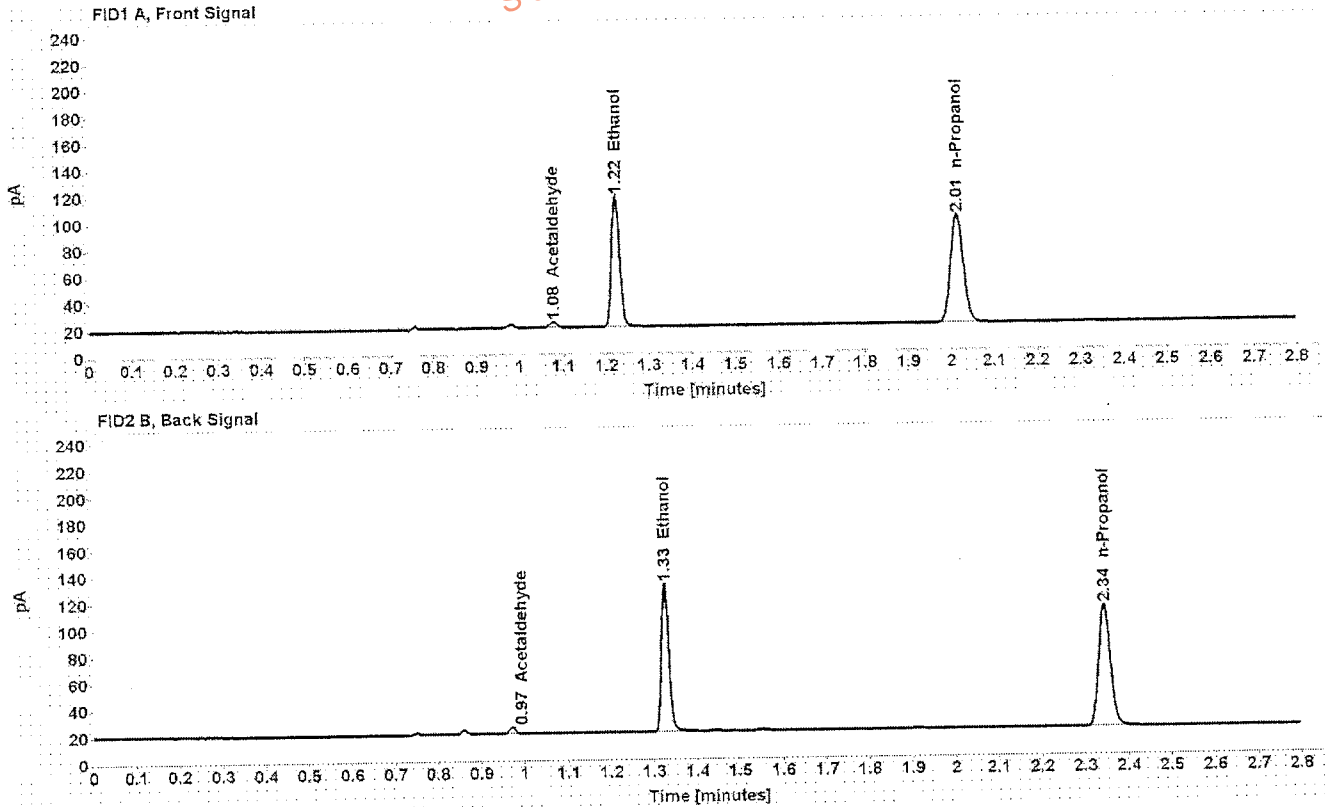


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.515
>Ethanol	0.2107	1.223	130.159
n-Propanol	-----	2.014	167.633

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.806
Ethanol	1.326	134.544
n-Propanol	2.344	171.753

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1110511
Injection date: 9/13/2016 8:43:03 PM	Vial: 22
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CNT4160045	Analyst: Langan
Data file: C:\Chem32\1\Data\13Sep16\22.D	

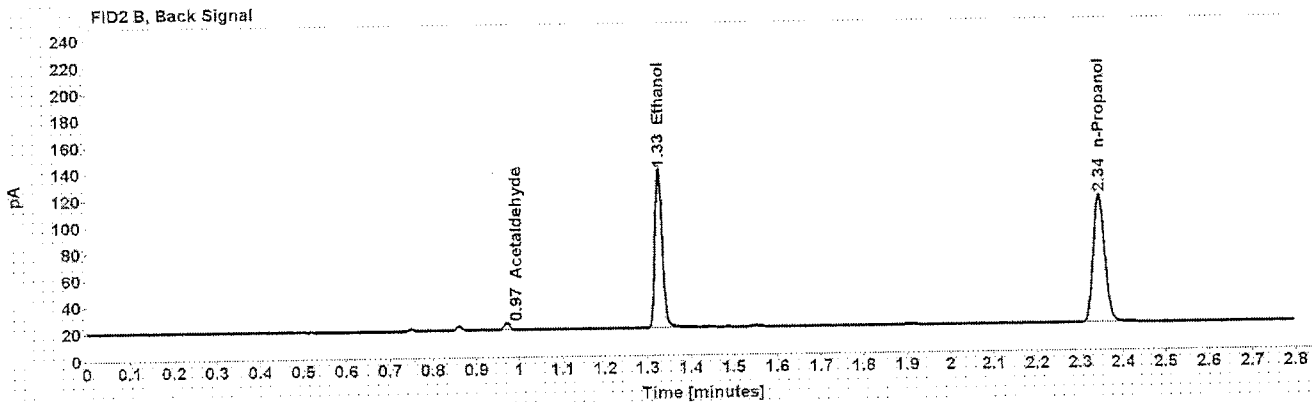
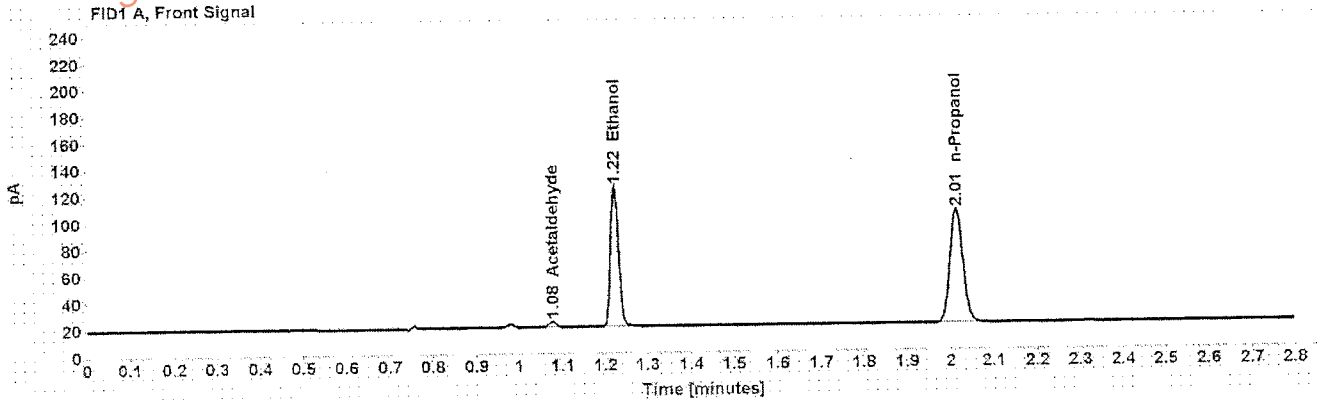


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.652
>Ethanol	0.2133	1.223	138.260
n-Propanol	-----	2.014	175.861

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.929
Ethanol	1.326	143.129
n-Propanol	2.345	180.243

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111226  
Injection date: 9/13/2016 8:47:04 PM Vial: 23  
Method: ethanol quant M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\23.D

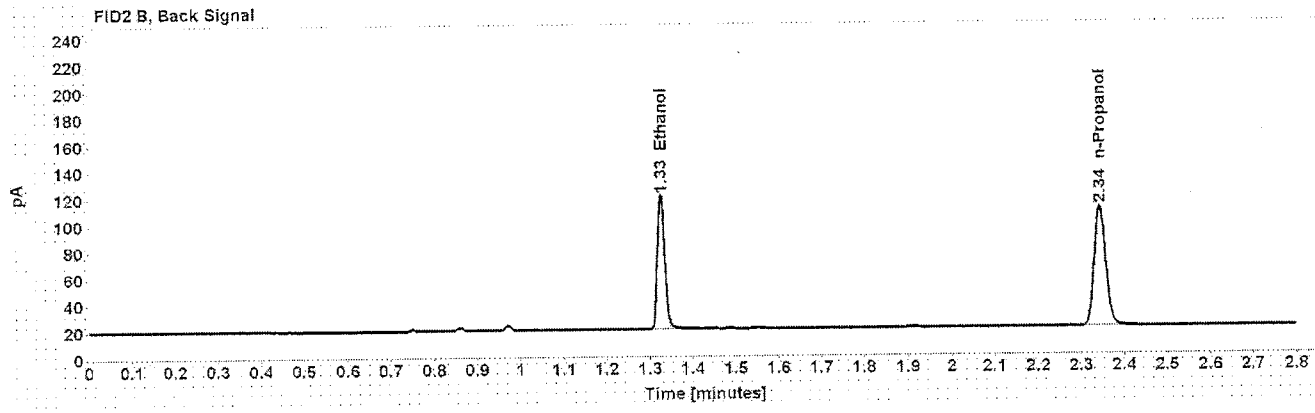
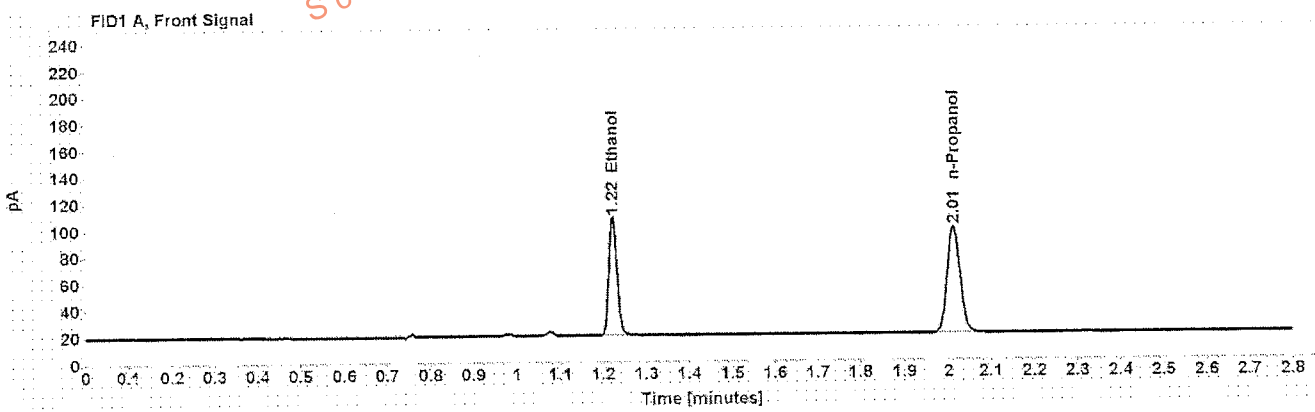


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1930	1.223	117.329
n-Propanol	-----	2.014	164.990

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

Compound	Time (min)	Peak Area
Ethanol	1.326	120.502
n-Propanol	2.344	169.134

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111226  
Injection date: 9/13/2016 8:51:03 PM Vial: 24  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\24.D

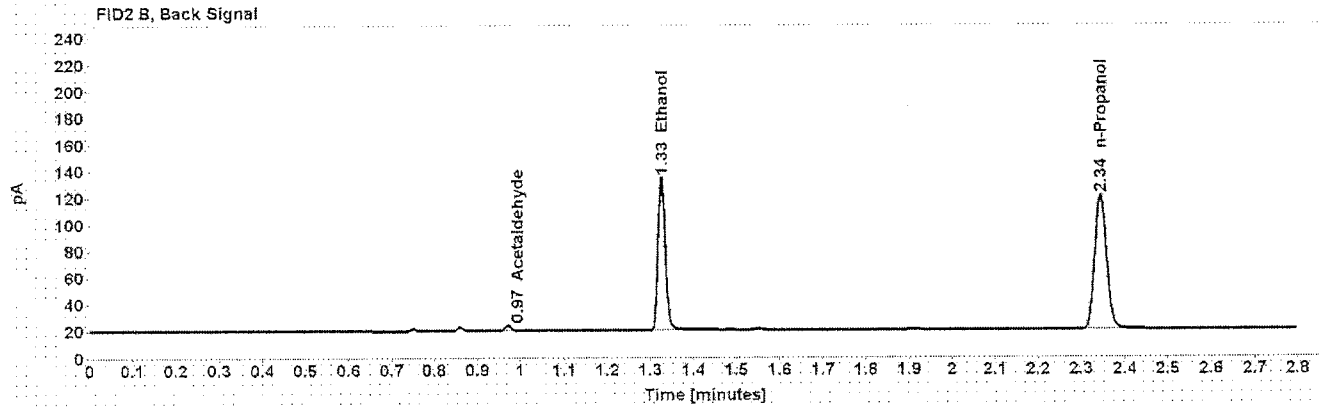
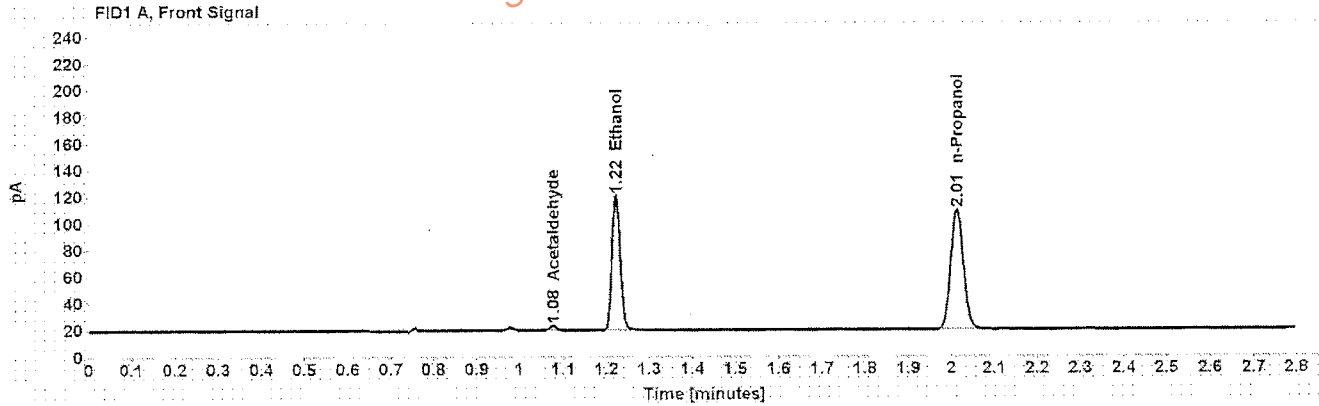


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	3.752
>Ethanol	0.1963	1.223	133.653
n-Propanol	-----	2.013	184.734

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.966
Ethanol	1.326	138.342
n-Propanol	2.344	189.697

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111060  
Injection date: 9/13/2016 8:55:19 PM Vial: 25  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023\CN14160045 Analyst: Langan  
Data file: C:\Chem321\1\Data\13Sep16\25.D

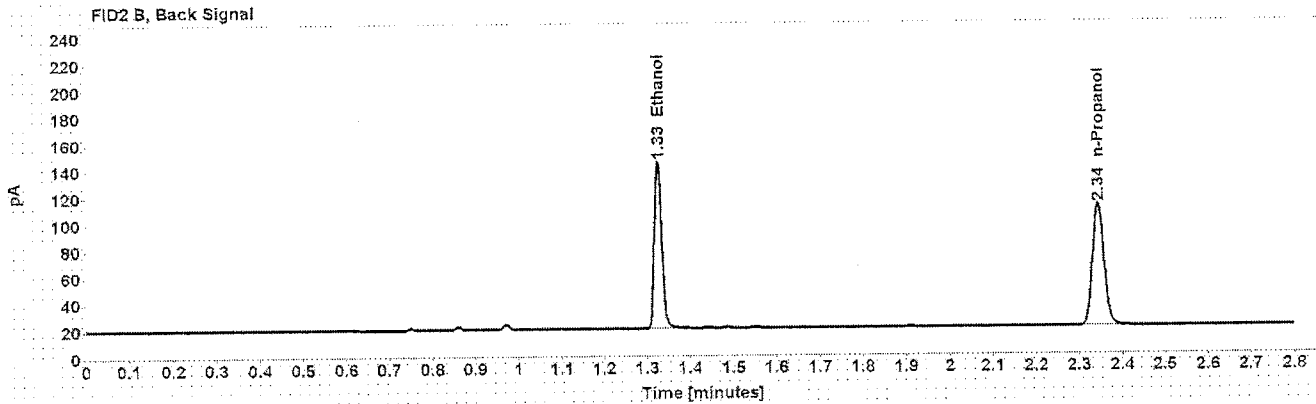
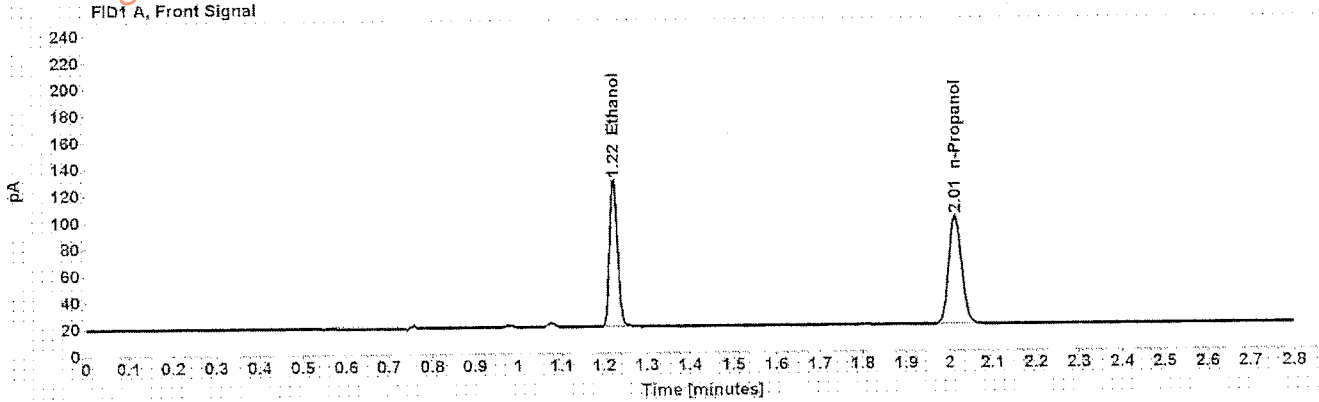


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2359	1.223	145.837
n-Propanol	-----	2.013	167.670

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

Compound	Time (min)	Peak Area
Ethanol	1.325	151.004
n-Propanol	2.344	172.006

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1111060
Injection date:	9/13/2016 8:59:18 PM	Vial:	26
Method:	ethanol quant M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\13Sep16\26.D		

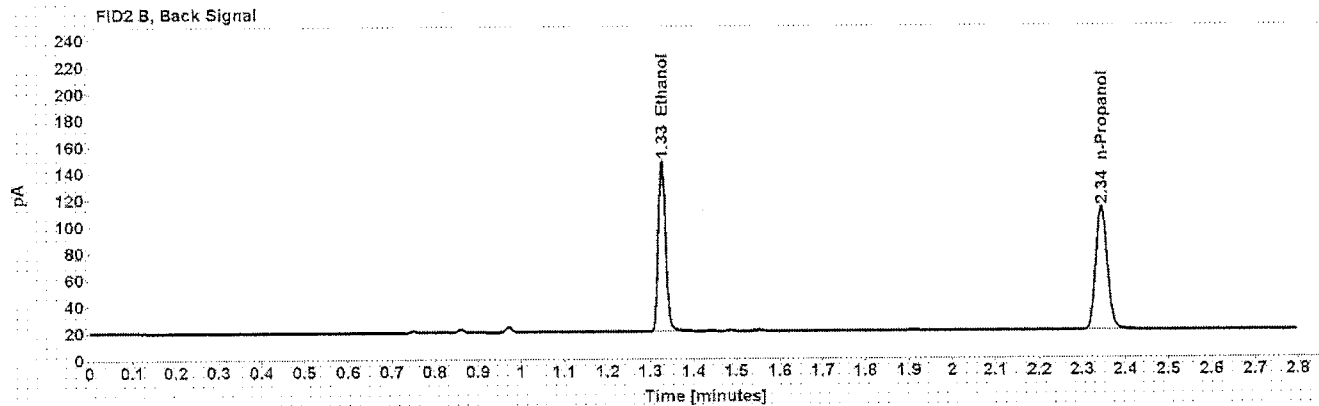
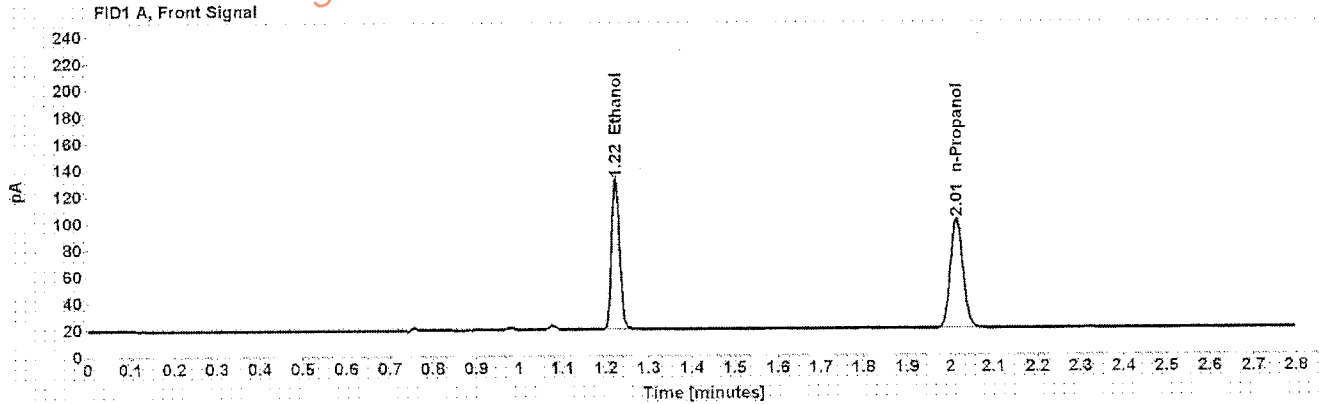


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2387	1.223	148.688
n-Propanol	---	2.014	168.887

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

Compound	Time (min)	Peak Area
Ethanol	1.326	154.064
n-Propanol	2.345	173.148

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1110762
<b>Injection date:</b> 9/13/2016 9:07:18 PM	<b>Vial:</b> 28
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 13Sep16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem32\1\Data\13Sep16\28.D	

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

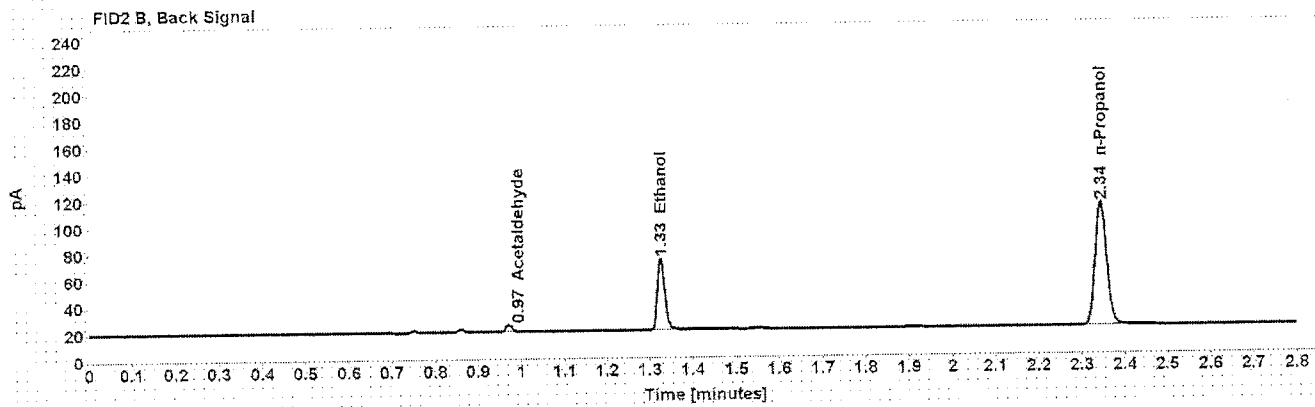
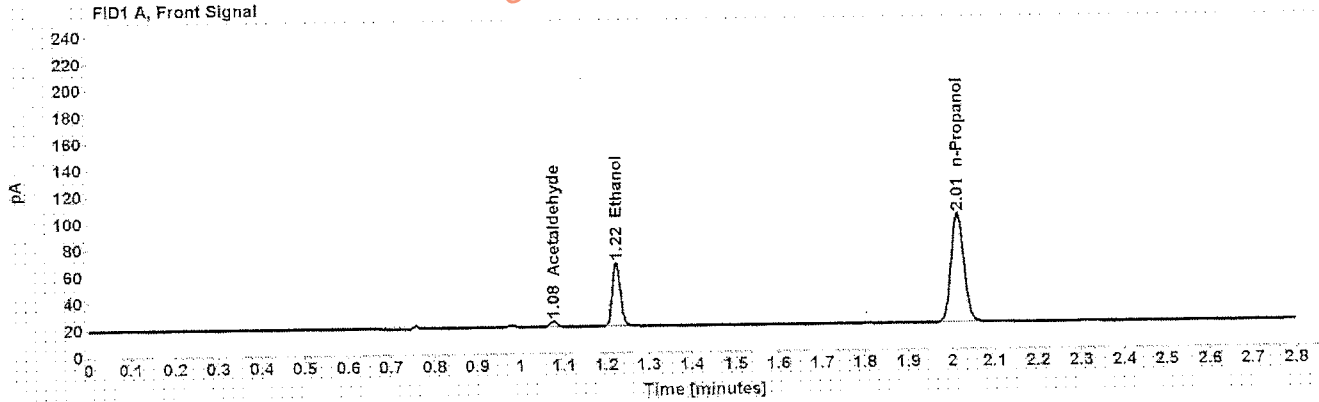


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.555
>Ethanol	0.1016	1.224	62.931
n-Propanol	-----	2.014	168.781

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.887
Ethanol	1.327	64.550
n-Propanol	2.345	173.129

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111434  
Injection date: 9/13/2016 9:11:19 PM Vial: 29  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\29.D

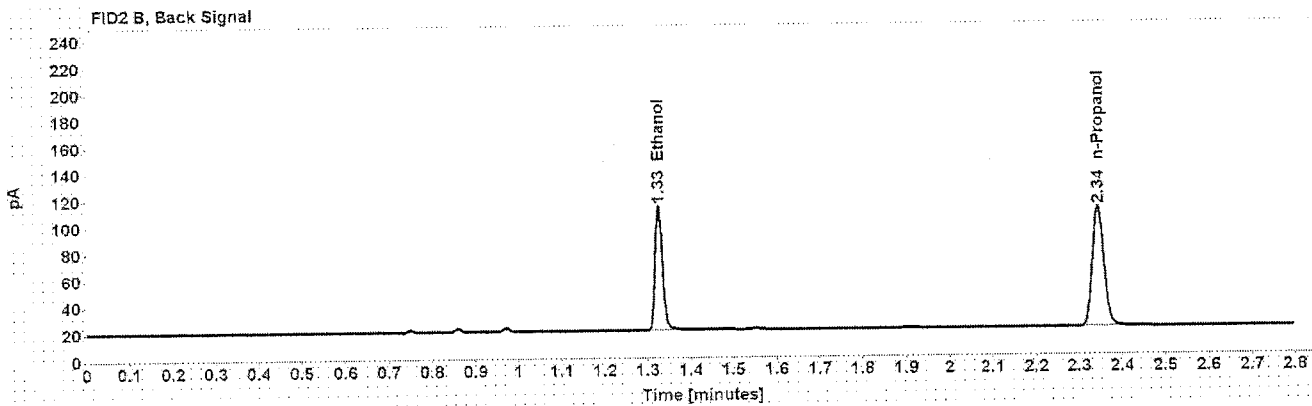
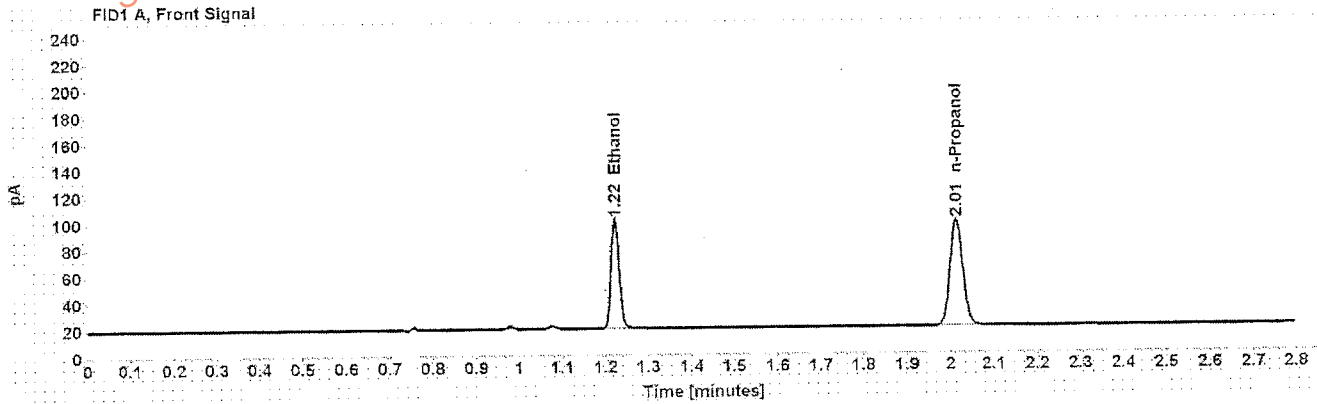


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1801	1.223	109.208
n-Propanol	-----	2.014	164.662

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

Compound	Time (min)	Peak Area
Ethanol	1.326	112.189
n-Propanol	2.344	168.957



Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1110762  
Injection date: 9/13/2016 9:03:18 PM Vial: 27  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\27.D

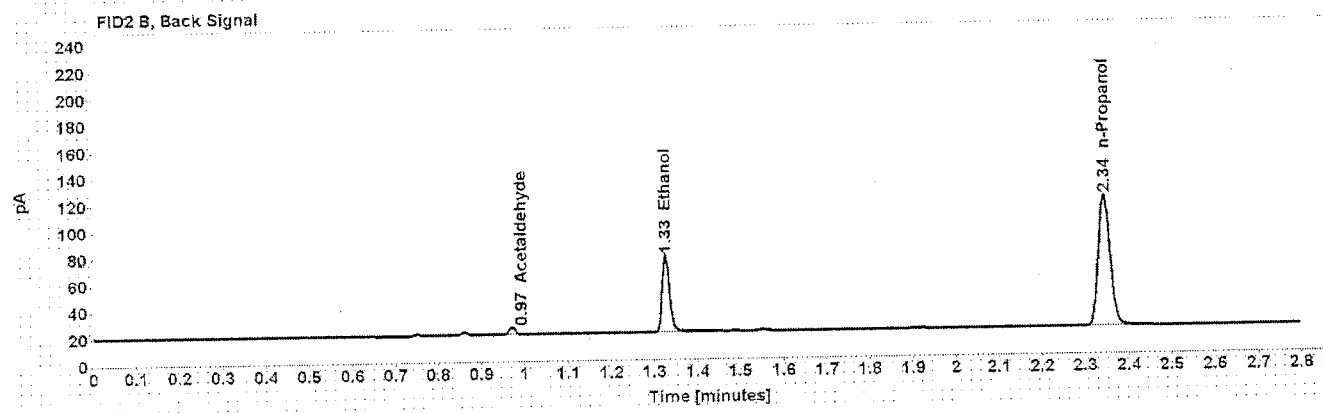
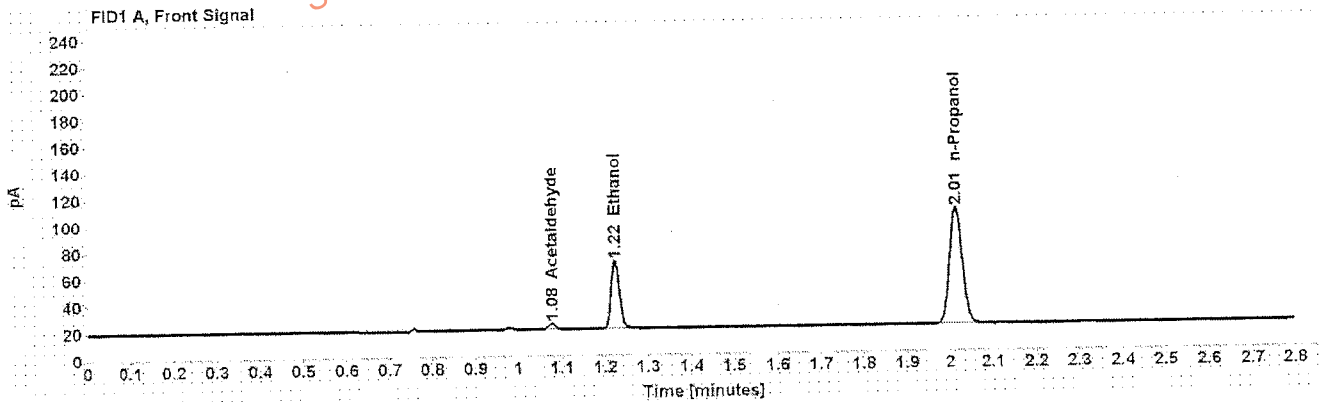


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.782
>Ethanol	0.1026	1.224	67.442
n-Propanol	-----	2.014	179.106

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.054
Ethanol	1.327	68.997
n-Propanol	2.345	183.825

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111434  
Injection date: 9/13/2016 9:15:19 PM Vial: 30  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\30.D

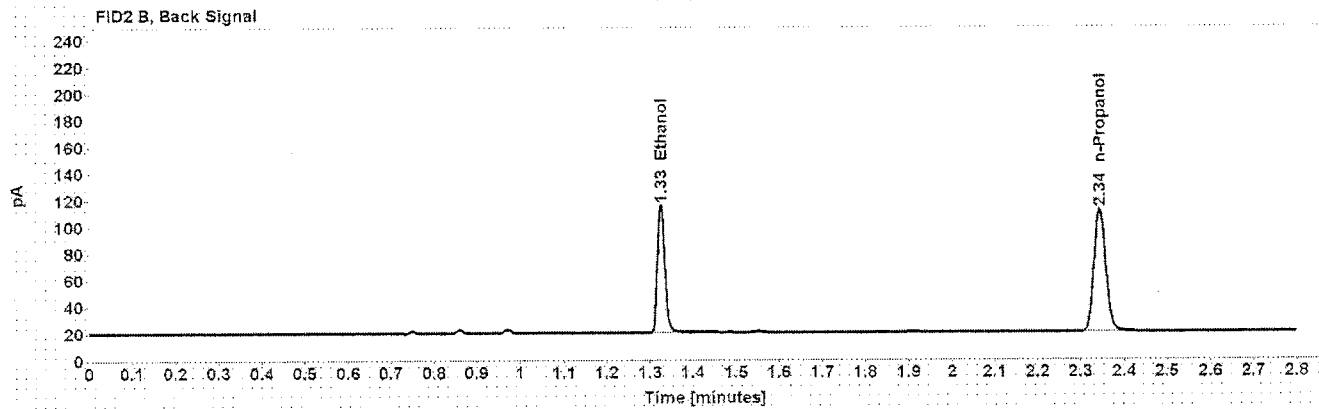
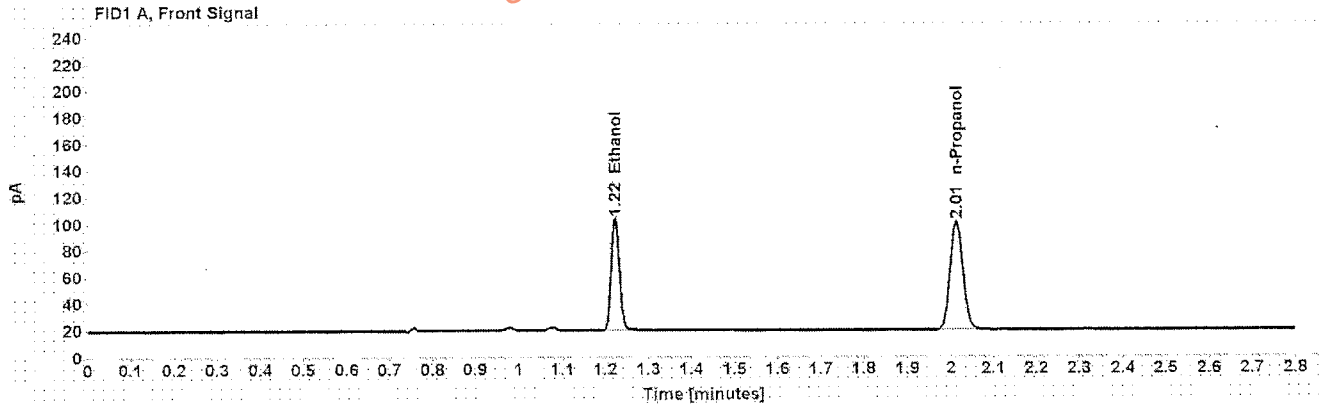


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1803	1.223	111.715
n-Propanol	-----	2.013	168.191

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

Compound	Time (min)	Peak Area
Ethanol	1.326	114.669
n-Propanol	2.344	172.470

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1108979  
Injection date: 9/13/2016 9:23:33 PM Vial: 32  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\32.D

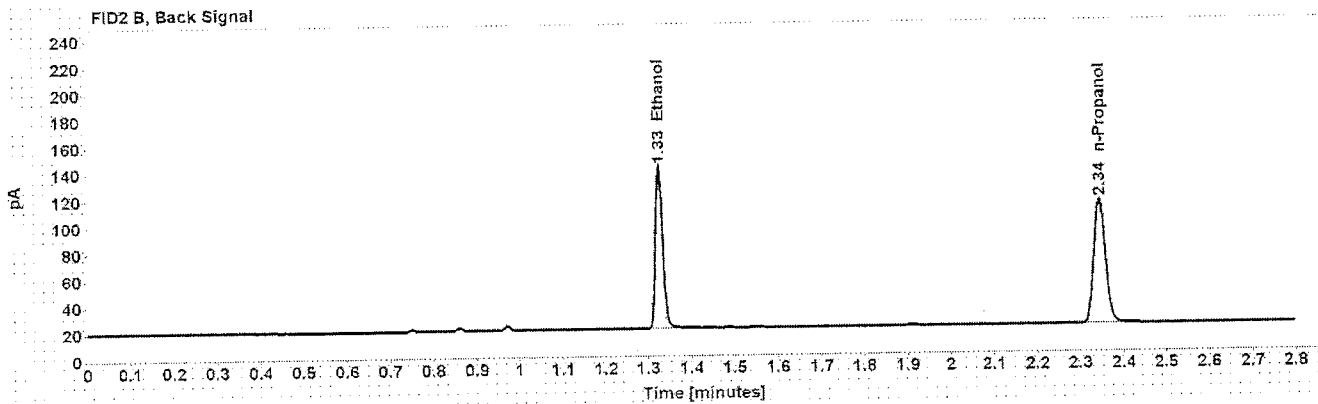
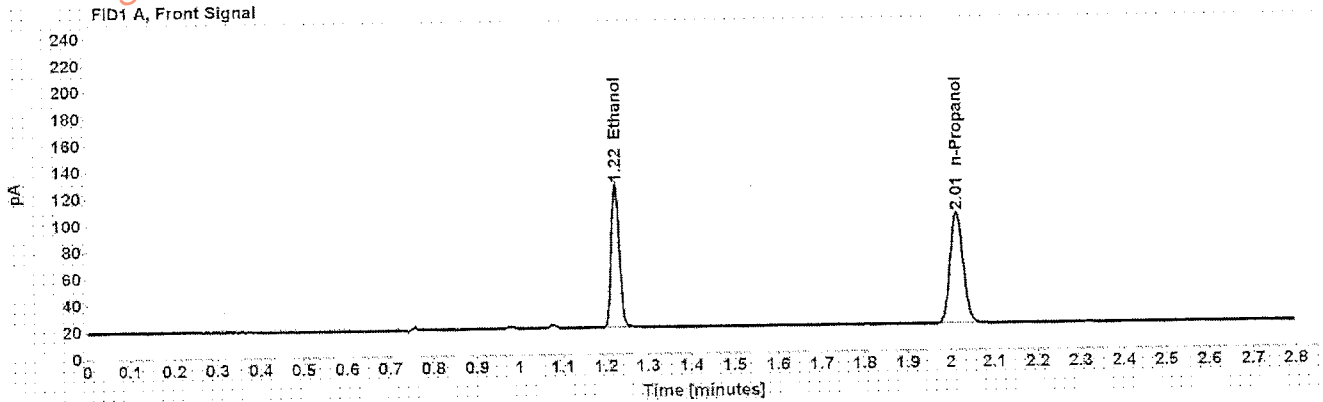


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2255	1.223	142.189
n-Propanol	-----	2.014	171.015

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

Compound	Time (min)	Peak Area
Ethanol	1.326	147.058
n-Propanol	2.344	175.399

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1108979
Injection date:	9/13/2016 9:27:33 PM	Vial:	33
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\13Sep16\33.D		

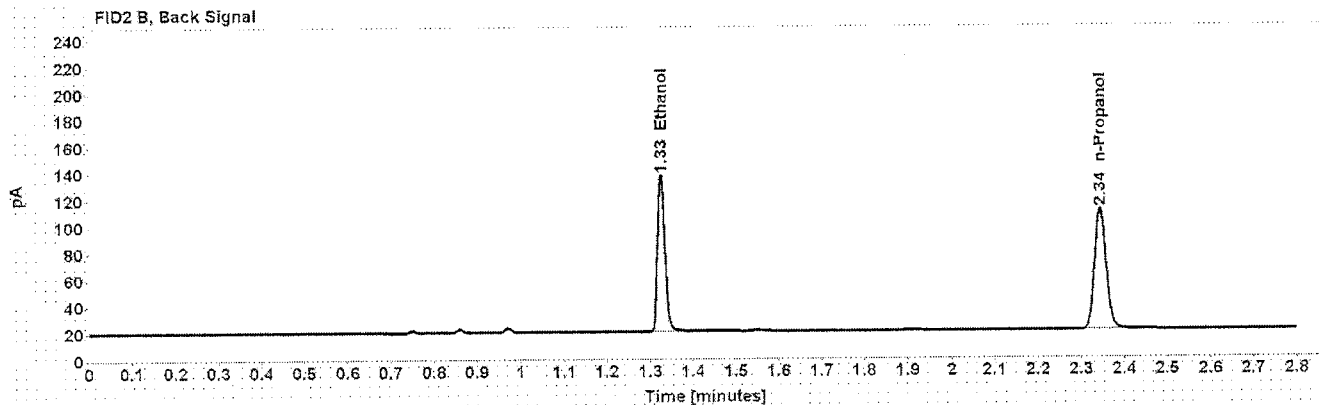
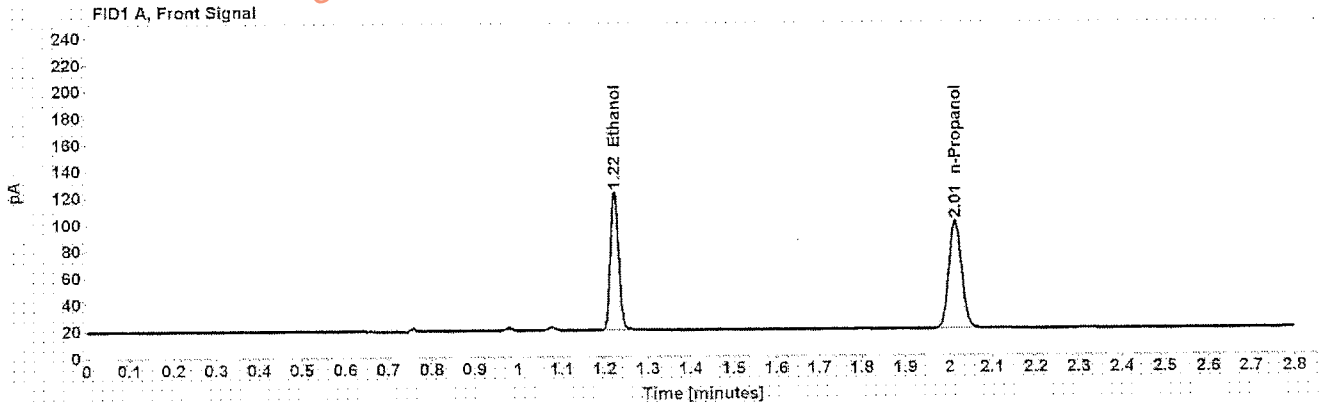


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2235	1.223	136.857
n-Propanol	-----	2.014	166.071

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

Compound	Time (min)	Peak Area
Ethanol	1.326	141.619
n-Propanol	2.344	170.434

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 267-01A  
Injection date: 9/13/2016 9:31:34 PM Vial: 34  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\34.D

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

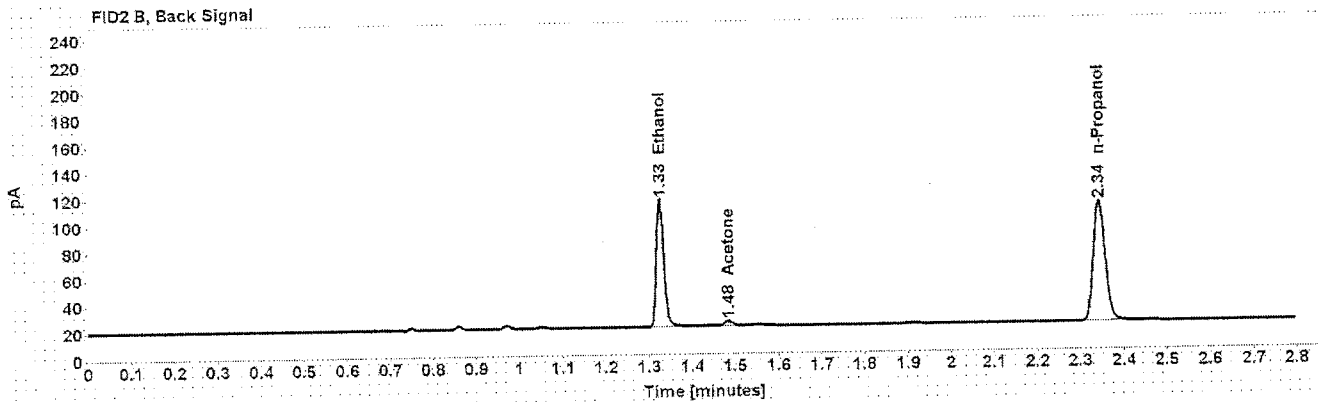
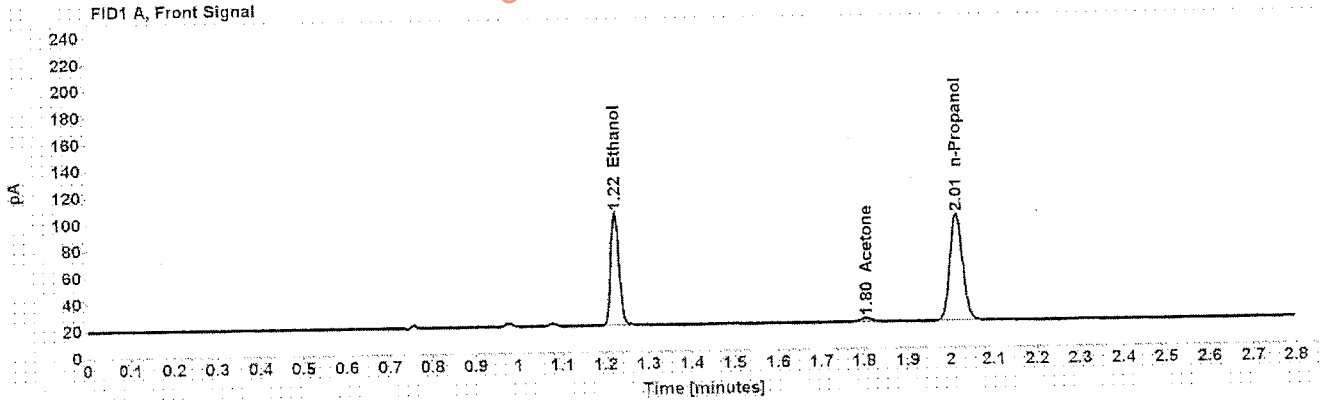


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1842	1.223	112.203
Acetone	-----	1.805	4.795
n-Propanol	-----	2.014	165.324

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

Compound	Time (min)	Peak Area
Ethanol	1.326	116.343
Acetone	1.484	5.052
n-Propanol	2.344	169.904

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 267-01A  
Injection date: 9/13/2016 9:35:34 PM Vial: 35  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\35.D

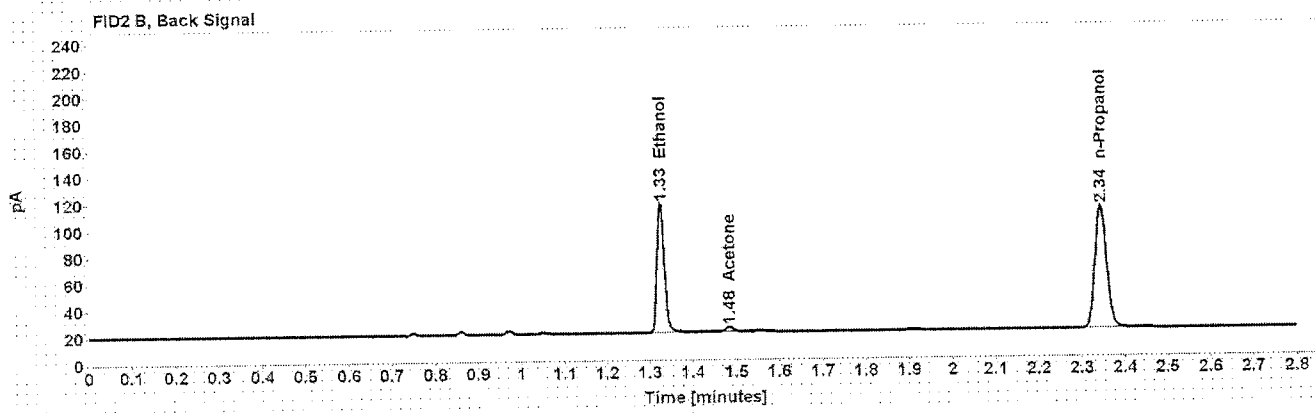
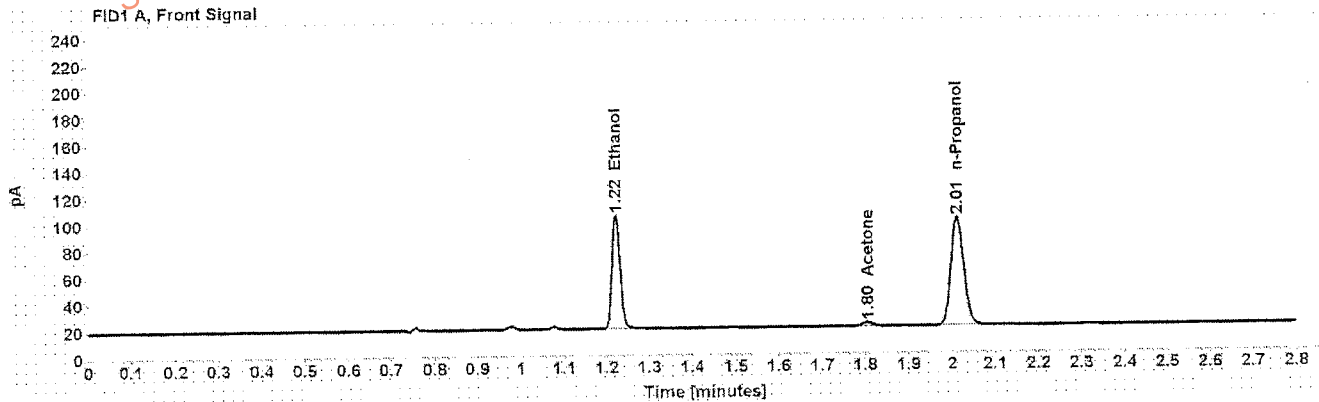


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1828	1.223	112.907
Acetone	-----	1.805	4.840
n-Propanol	-----	2.014	167.699

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

Compound	Time (min)	Peak Area
Ethanol	1.326	116.495
Acetone	1.484	4.693
n-Propanol	2.344	172.197

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 267-01A  
Injection date: 9/13/2016 9:39:33 PM Vial: 36  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\36.D

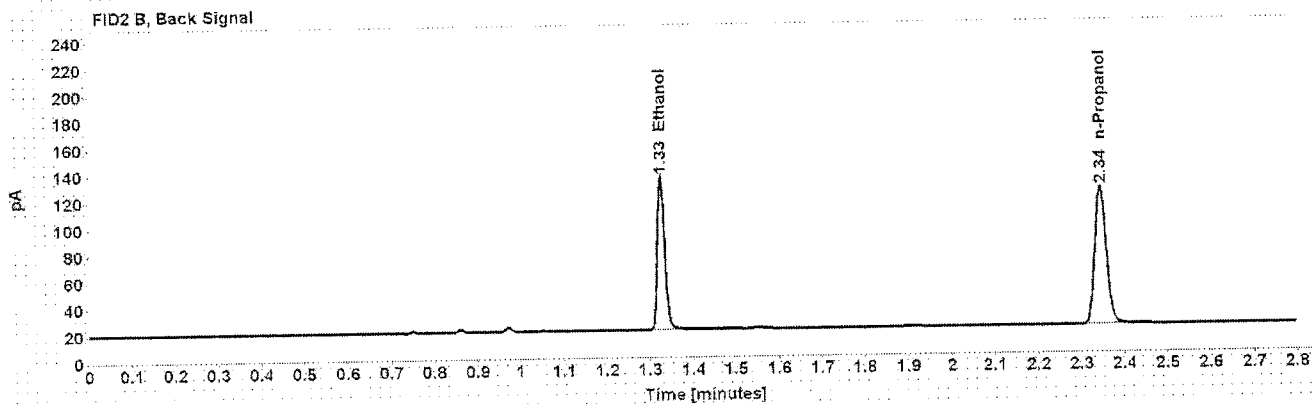
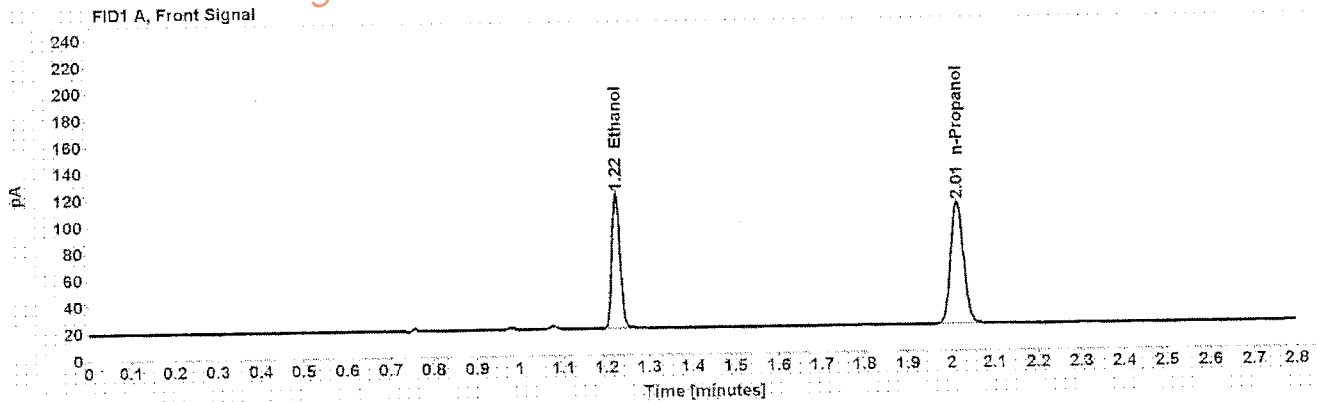


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1917	1.223	133.329
n-Propanol	-----	2.014	188.749

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

Compound	Time (min)	Peak Area
Ethanol	1.326	137.534
n-Propanol	2.345	194.288

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 267-01A  
Injection date: 9/13/2016 9:43:49 PM Vial: 37  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\37.D

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

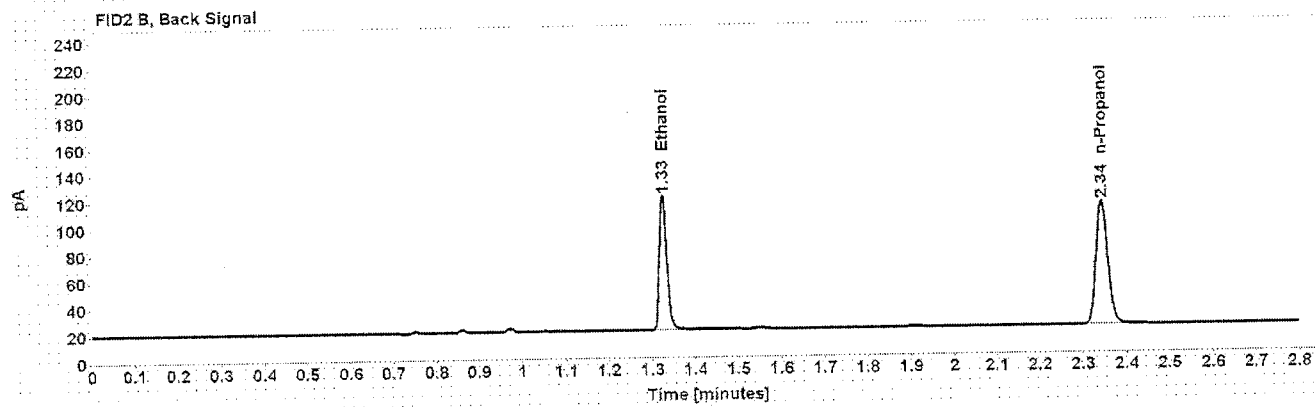
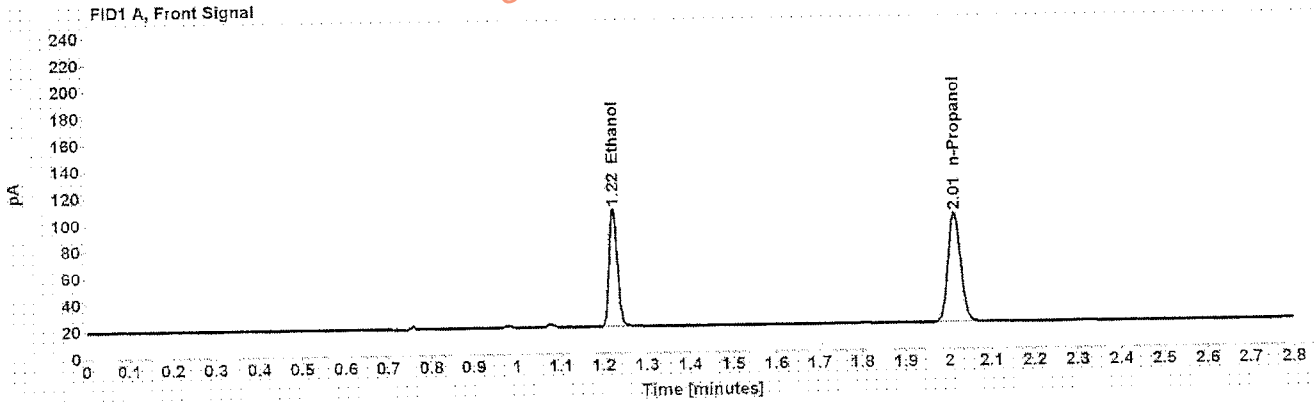


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1878	1.223	117.238
n-Propanol	-----	2.014	169.480

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

Compound	Time (min)	Peak Area
Ethanol	1.326	121.787
n-Propanol	2.344	174.458



Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 982866  
Injection date: 9/13/2016 9:47:49 PM Vial: 38  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\38.D

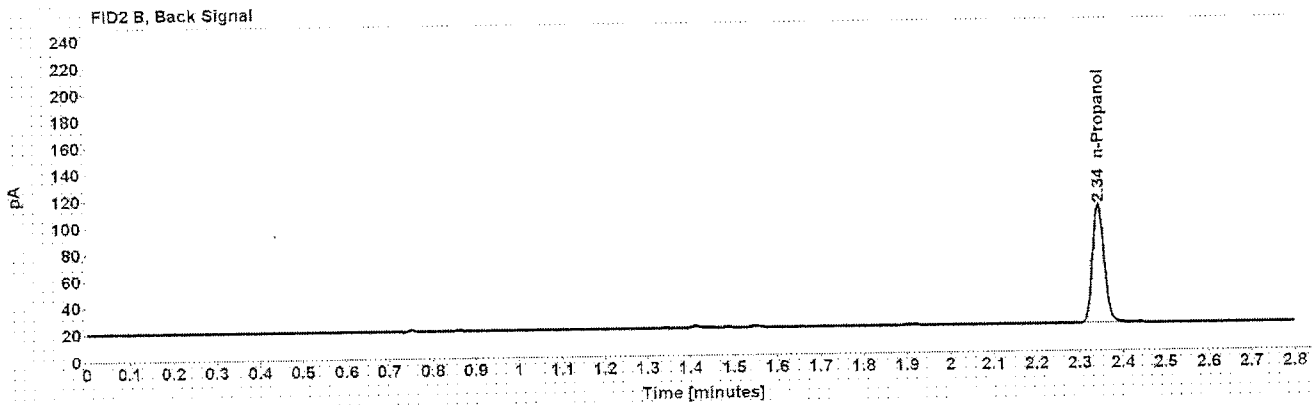
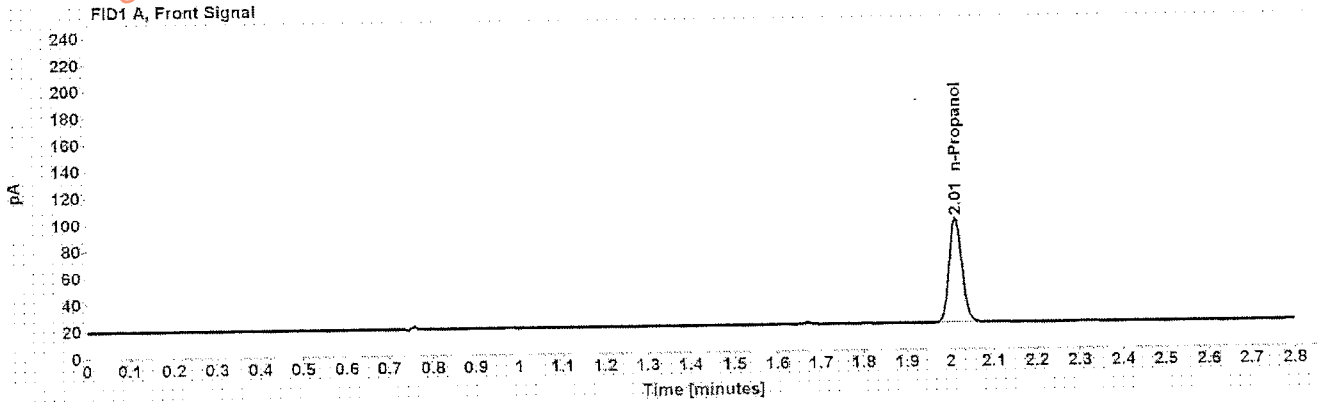


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	162.109

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

Compound	Time (min)	Peak Area
n-Propanol	2.343	166.861

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	982866
Injection date:	9/13/2016 9:51:49 PM	Vial:	39
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\13Sep16\39.D		

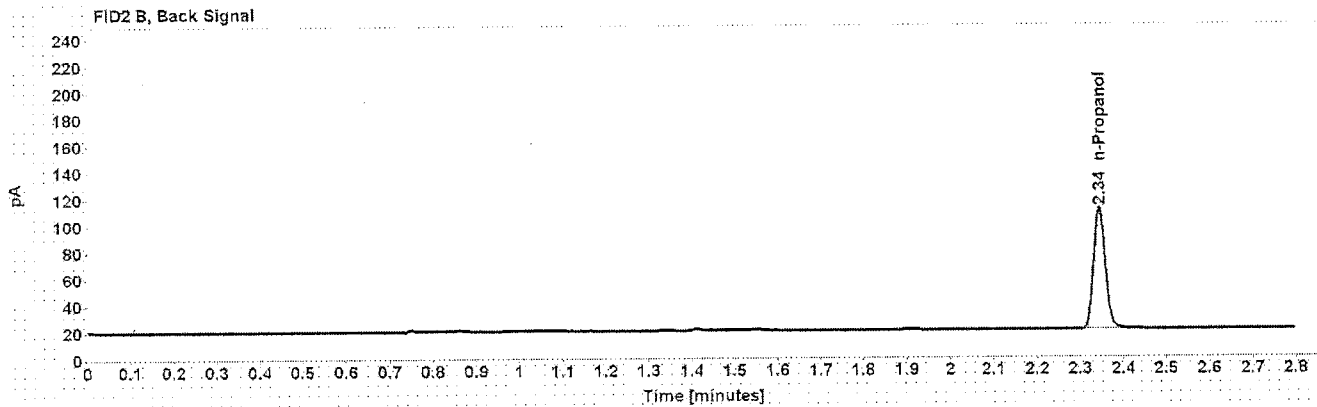
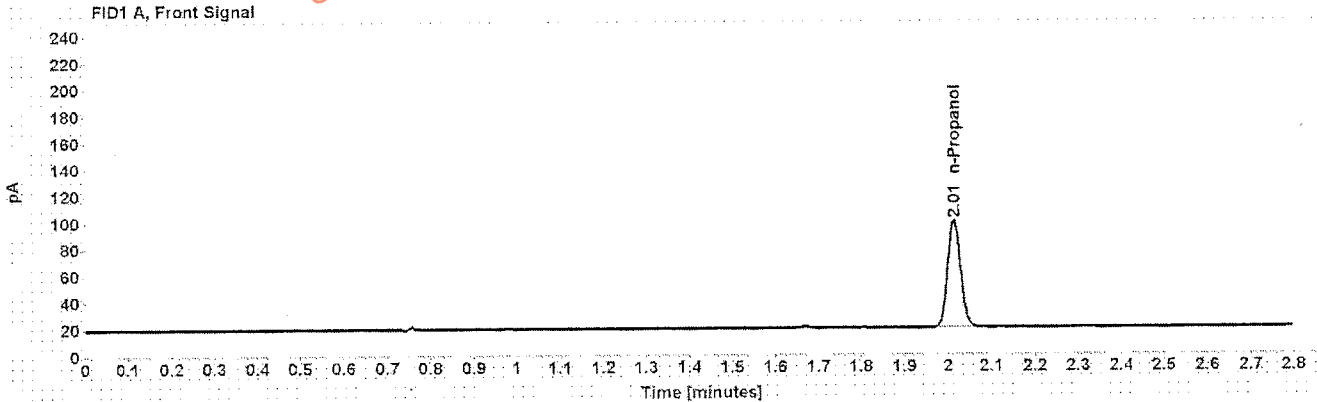


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	165.852

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	170.935

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1068976  
Injection date: 9/13/2016 9:55:48 PM Vial: 40  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\40.D

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

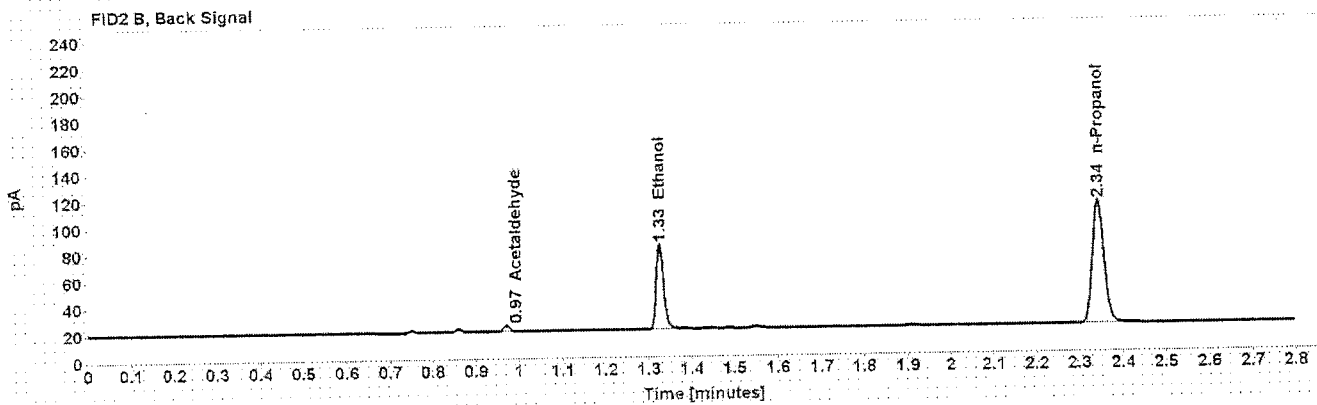
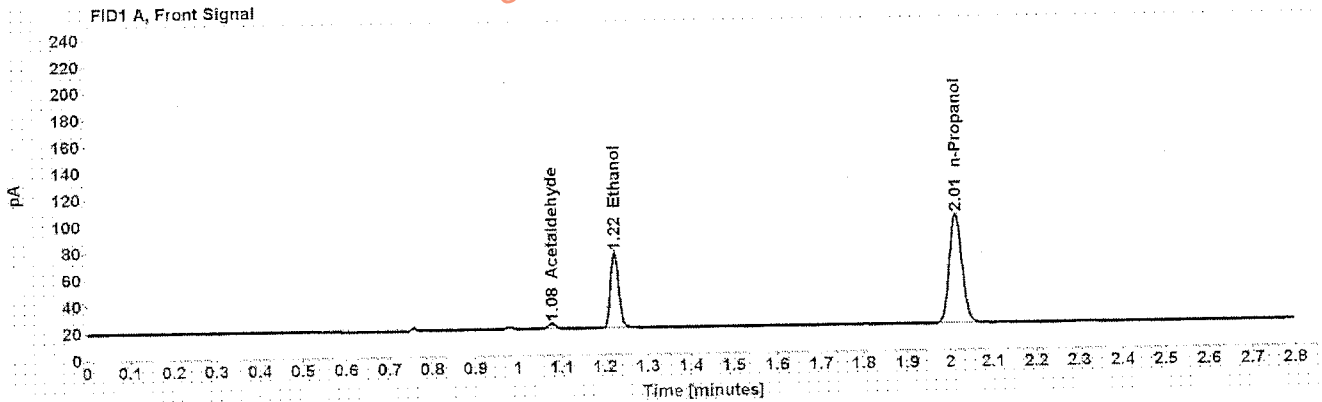


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.287
>Ethanol	0.1206	1.223	74.626
n-Propanol	-----	2.014	168.418

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.562
Ethanol	1.326	76.802
n-Propanol	2.344	173.566

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1068976  
Injection date: 9/13/2016 9:59:49 PM Vial: 41  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\41.D

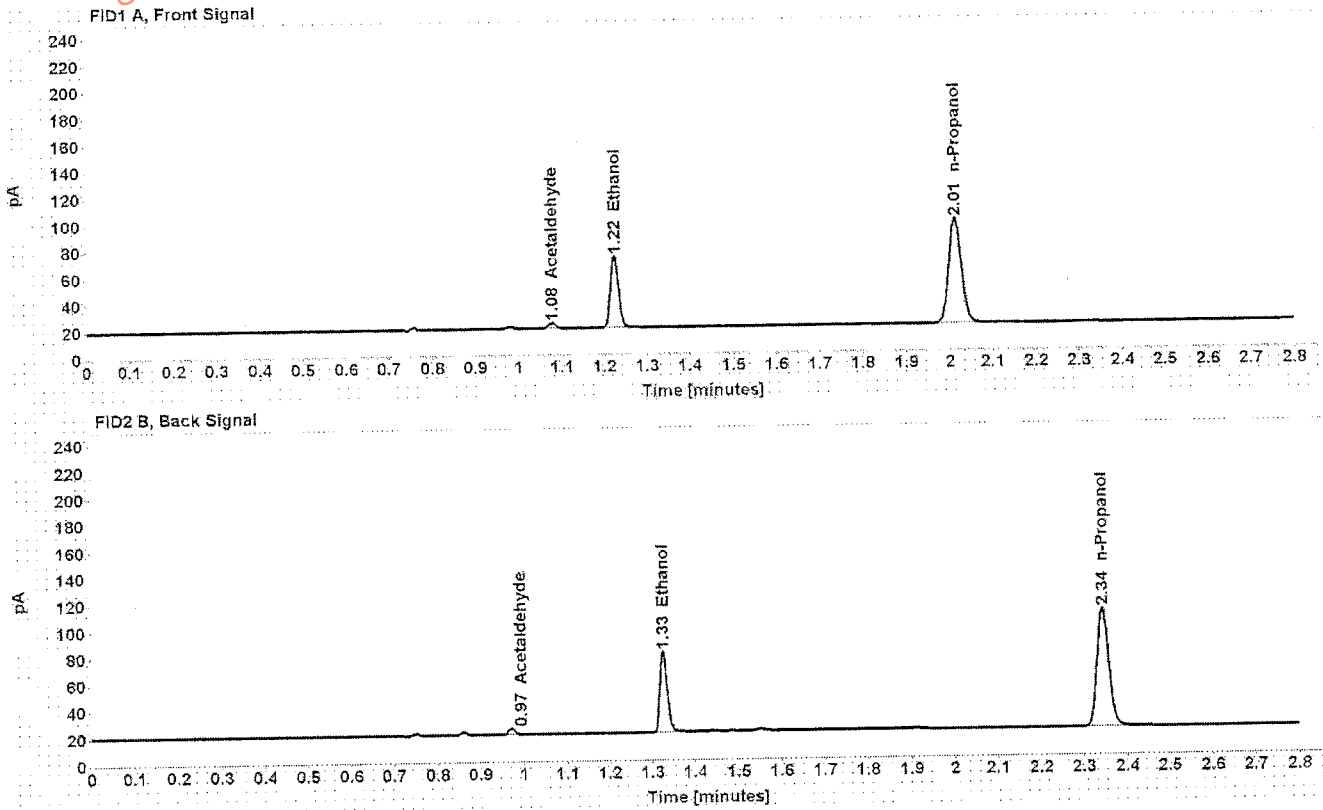


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.320
>Ethanol	0.1191	1.223	71.067
n-Propanol	-----	2.014	162.446

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.636
Ethanol	1.326	73.110
n-Propanol	2.344	167.235

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113459  
Injection date: 9/13/2016 10:08:04 PM Vial: 43  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\43.D

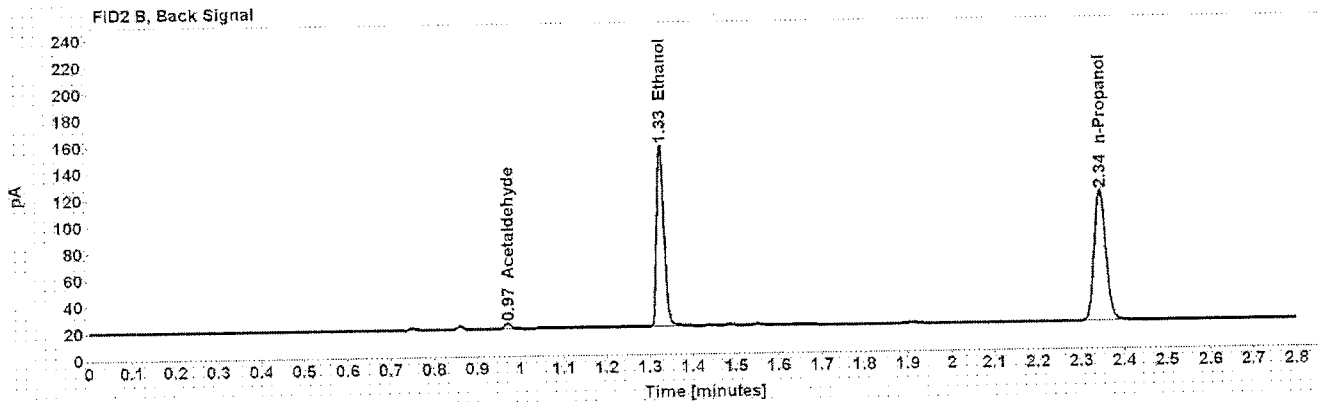
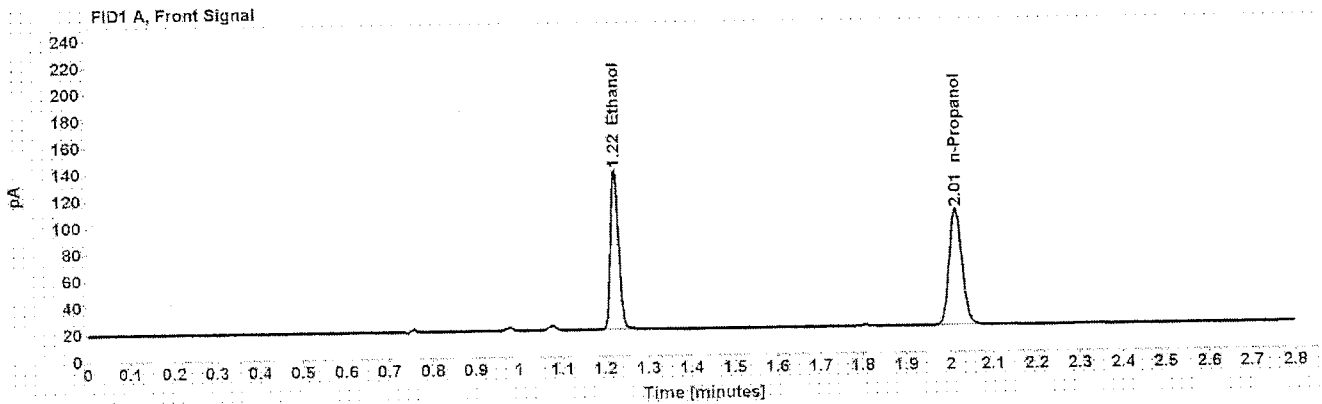


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2388	1.223	157.877
n-Propanol	-----	2.014	179.252

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.979
Ethanol	1.326	163.985
n-Propanol	2.344	184.732

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113459  
Injection date: 9/13/2016 10:12:03 PM Vial: 44  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\44.D

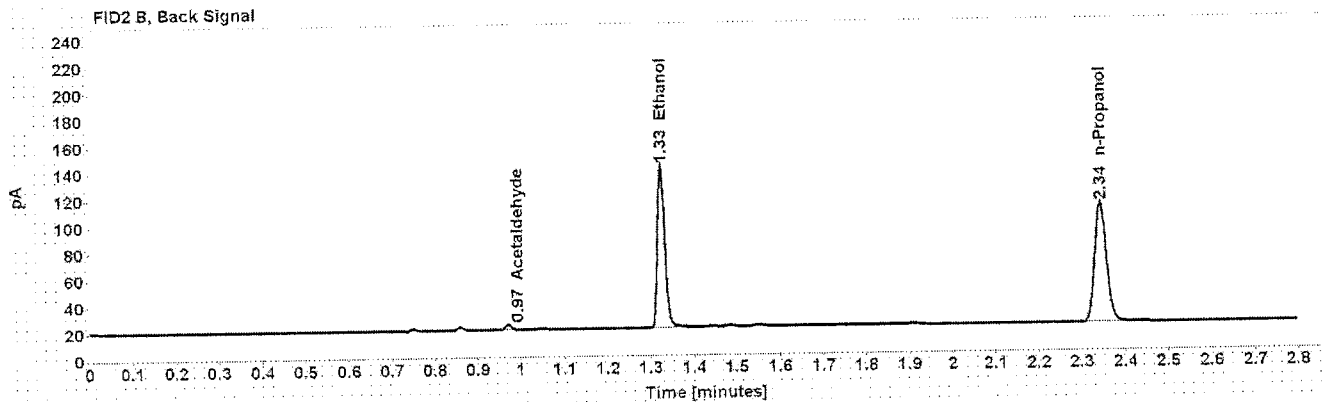
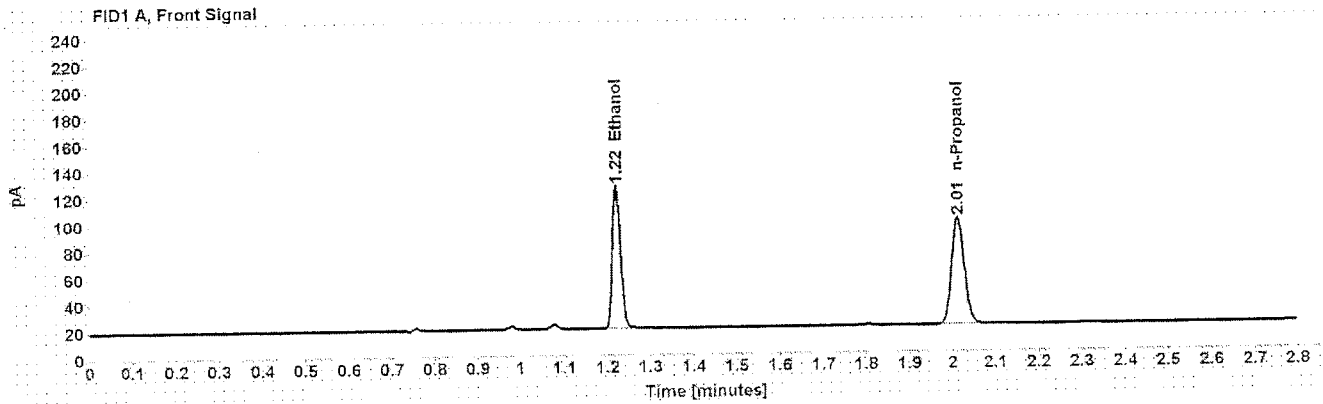


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2337	1.222	141.703
n-Propanol	-----	2.013	164.408

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.917
Ethanol	1.325	146.954
n-Propanol	2.344	169.329

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1113327
Injection date:	9/13/2016 10:16:04 PM	Vial:	45
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1>Data\13Sep16\45.D		

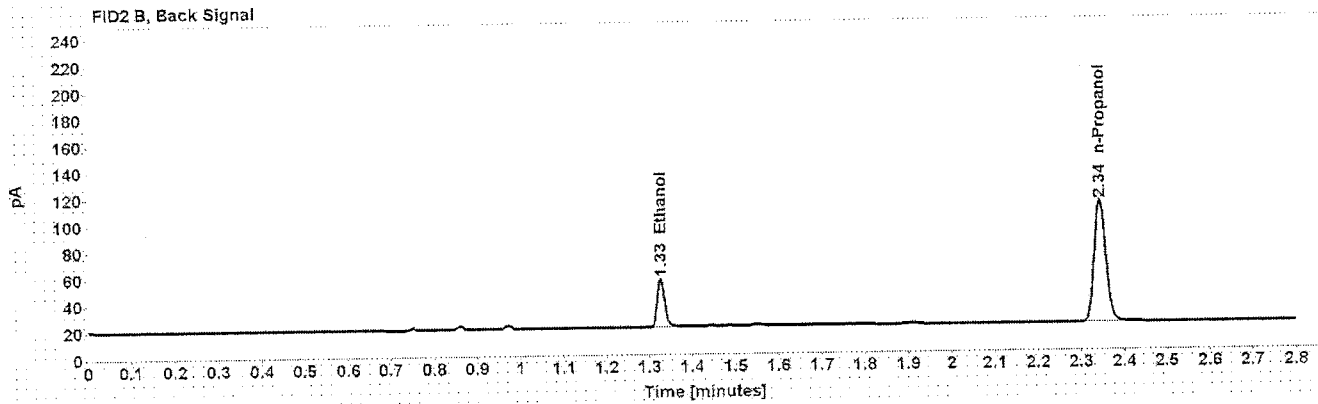
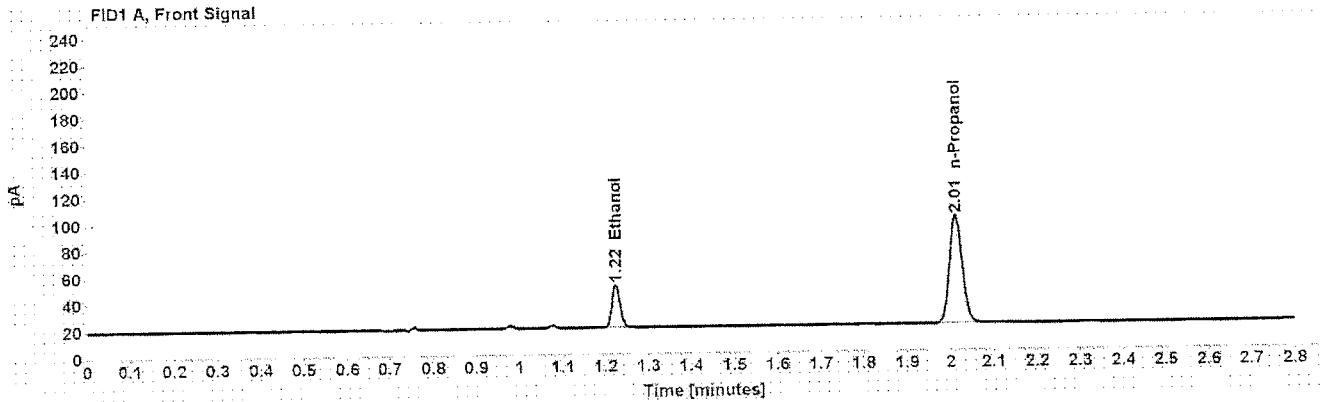


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0694	1.224	42.274
n-Propanol	-----	2.014	166.758

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

Compound	Time (min)	Peak Area
Ethanol	1.327	43.478
n-Propanol	2.344	171.831

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113327  
Injection date: 9/13/2016 10:20:04 PM Vial: 46  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem321\1Data\13Sep16\46.D

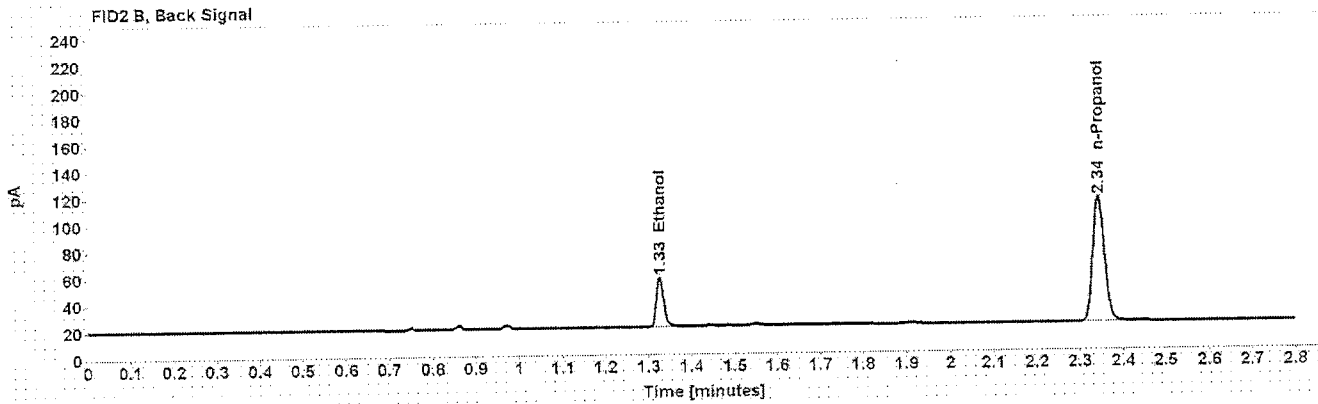
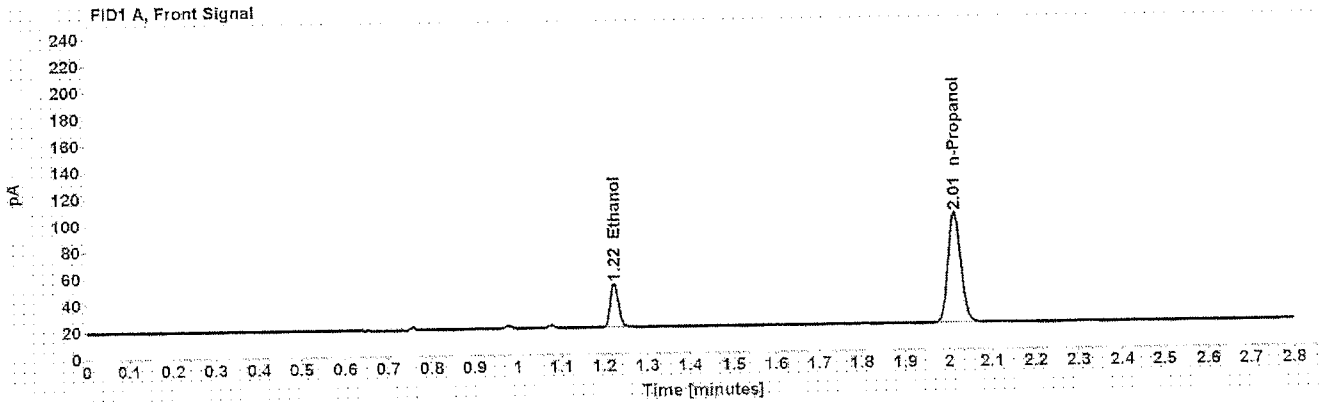


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0688	1.224	43.198
n-Propanol	-----	2.013	171.908

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

Compound	Time (min)	Peak Area
Ethanol	1.327	45.038
n-Propanol	2.344	175.776



Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111433  
Injection date: 9/13/2016 10:24:04 PM Vial: 47  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\47.D

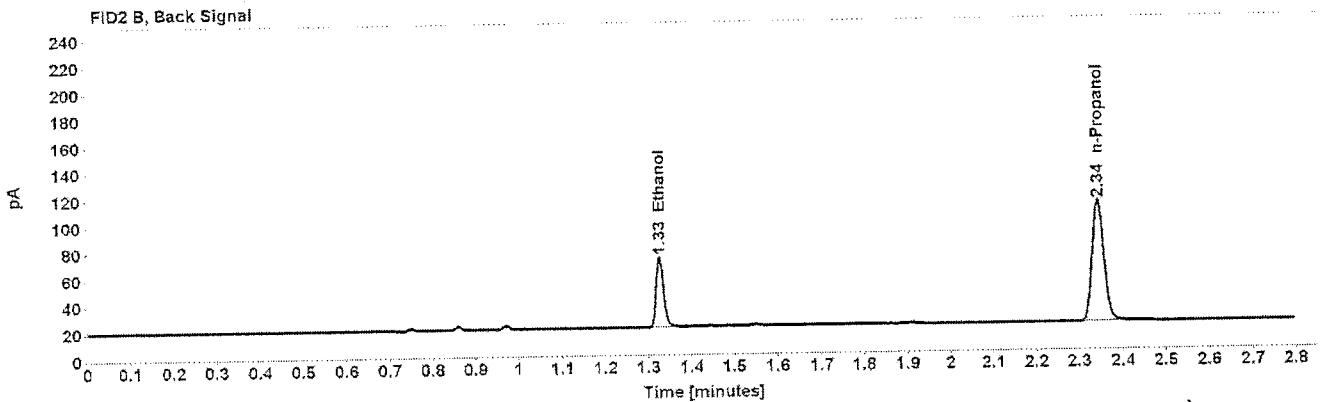
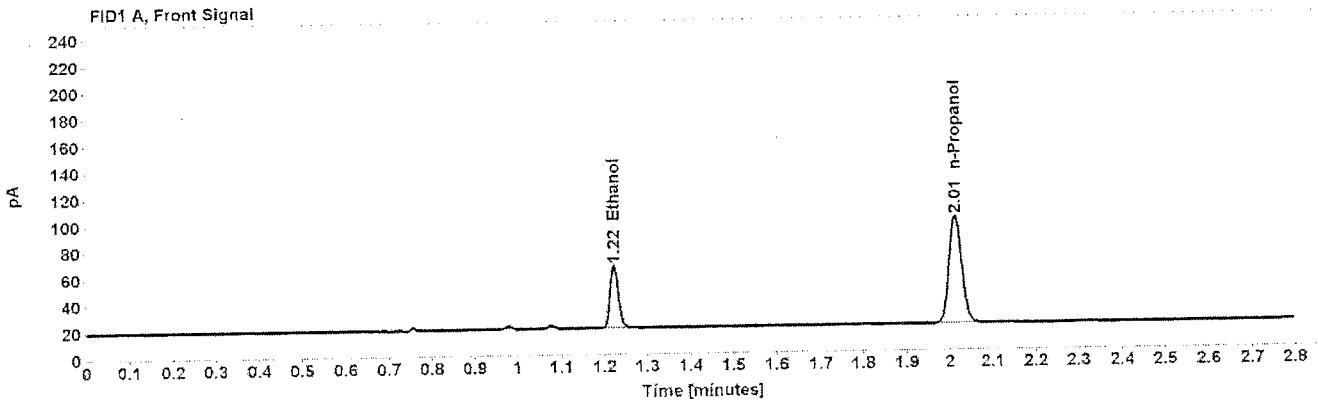


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1013	1.223	61.750
n-Propanol	-----	2.014	166.080

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

Compound	Time (min)	Peak Area
Ethanol	1.326	63.658
n-Propanol	2.344	170.923

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1111433  
Injection date: 9/13/2016 10:28:04 PM Vial: 48  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\11\Data\13Sep16\48.D

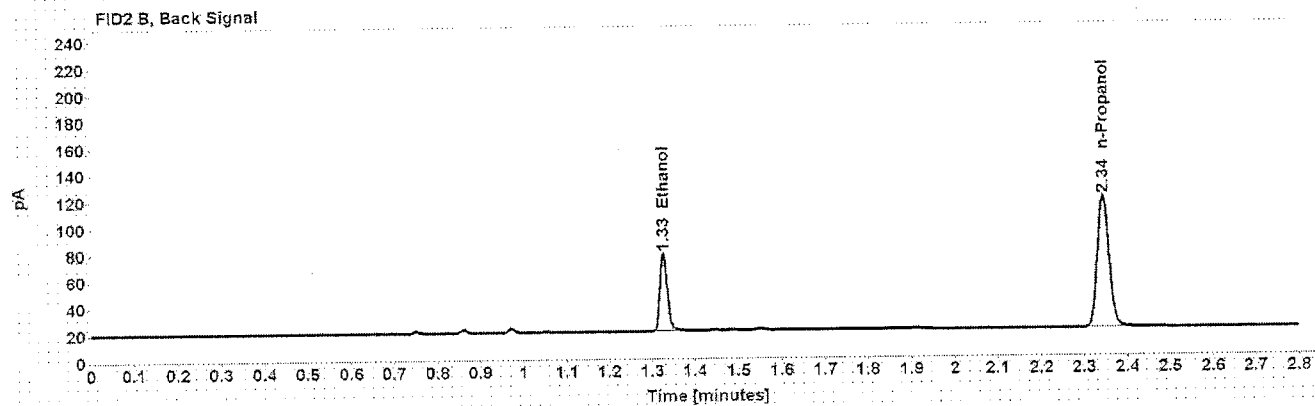
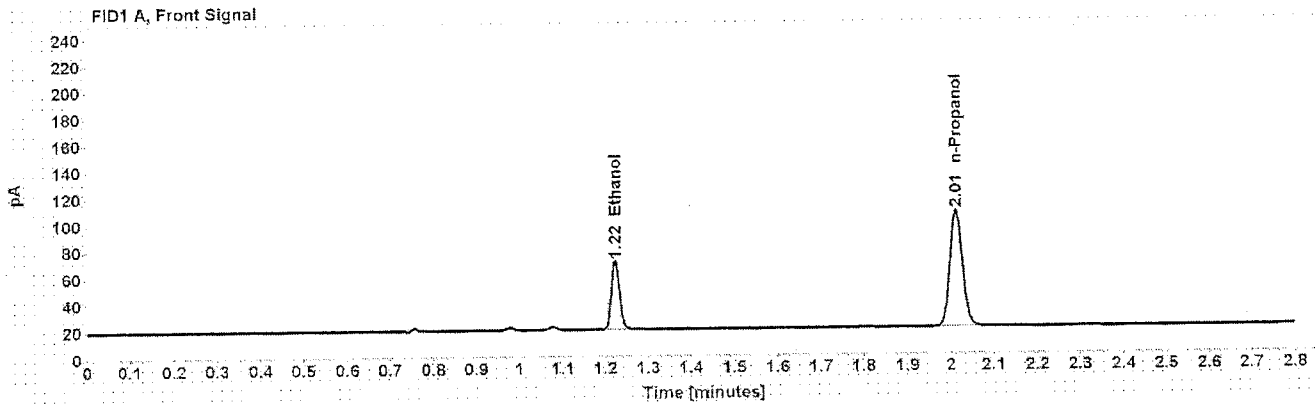


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1027	1.223	67.812
n-Propanol	-----	2.014	179.995

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

Compound	Time (min)	Peak Area
Ethanol	1.326	69.972
n-Propanol	2.344	185.425

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1086016  
Injection date: 9/13/2016 10:32:19 PM Vial: 49  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\13Sep16\49.D

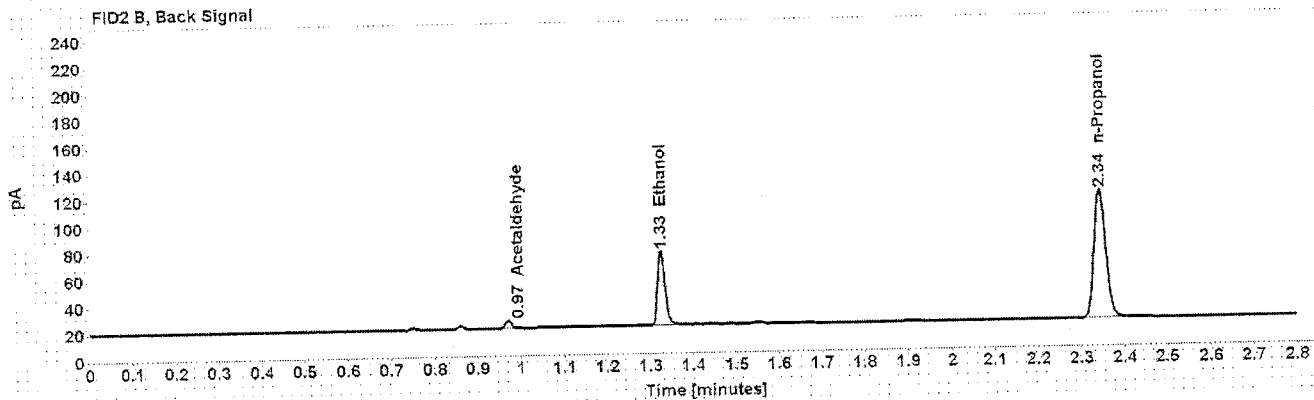
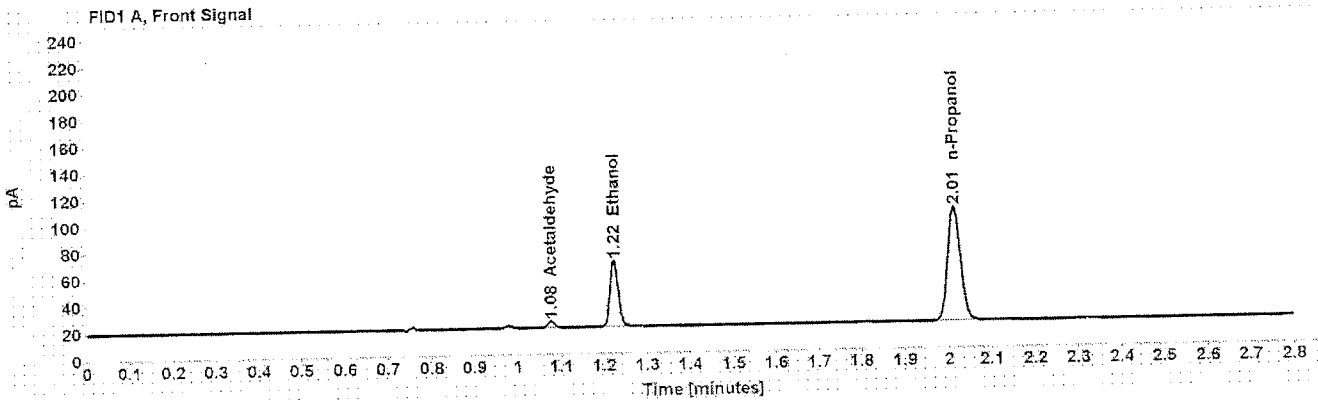


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	5.190
>Ethanol	0.1008	1.223	65.171
n-Propanol	-----	2.014	176.269

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.569
Ethanol	1.326	67.291
n-Propanol	2.344	181.593

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1086016  
Injection date: 9/13/2016 10:36:18 PM Vial: 50  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\50.D

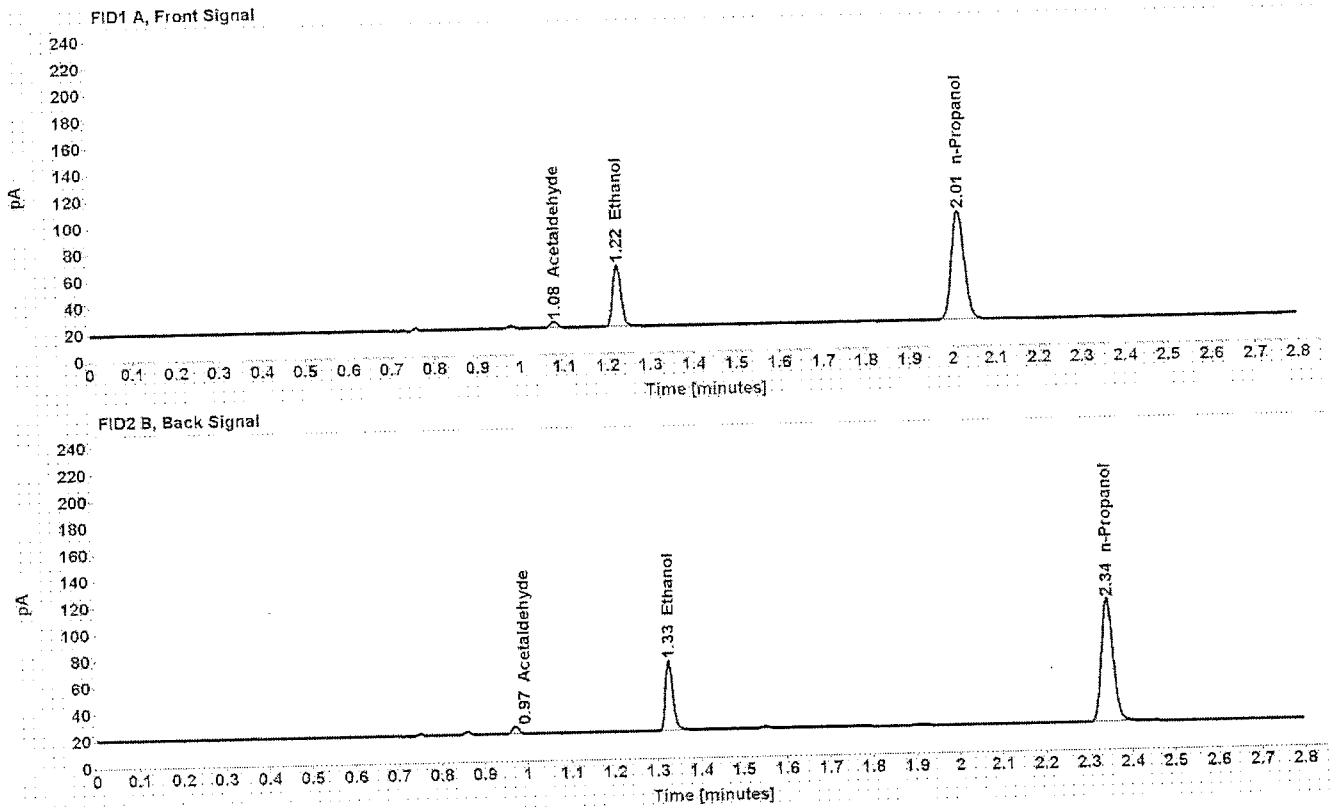


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	5.077
>Ethanol	0.0996	1.223	61.612
n-Propanol	-----	2.013	168.584

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.423
Ethanol	1.326	63.469
n-Propanol	2.344	173.693

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113482  
Injection date: 9/13/2016 10:40:18 PM Vial: 51  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem321\1Data\13Sep16\51.D

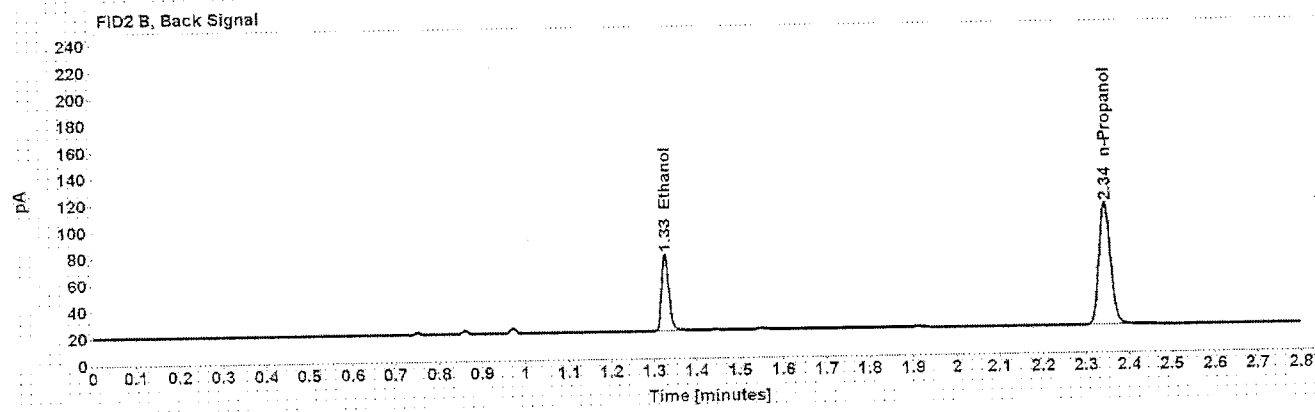
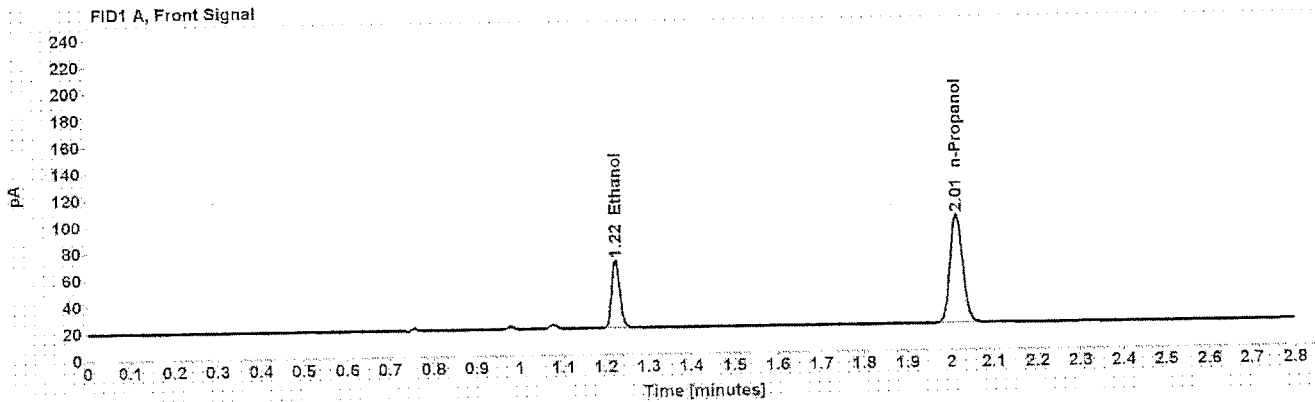


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1095	1.224	67.351
n-Propanol	-----	2.014	167.516

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

Compound	Time (min)	Peak Area
Ethanol	1.327	69.446
n-Propanol	2.344	172.639

Case: [REDACTED] User: alangan 9/14/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113482  
Injection date: 9/13/2016 10:44:19 PM Vial: 52  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem\321\Data\13Sep16\52.D

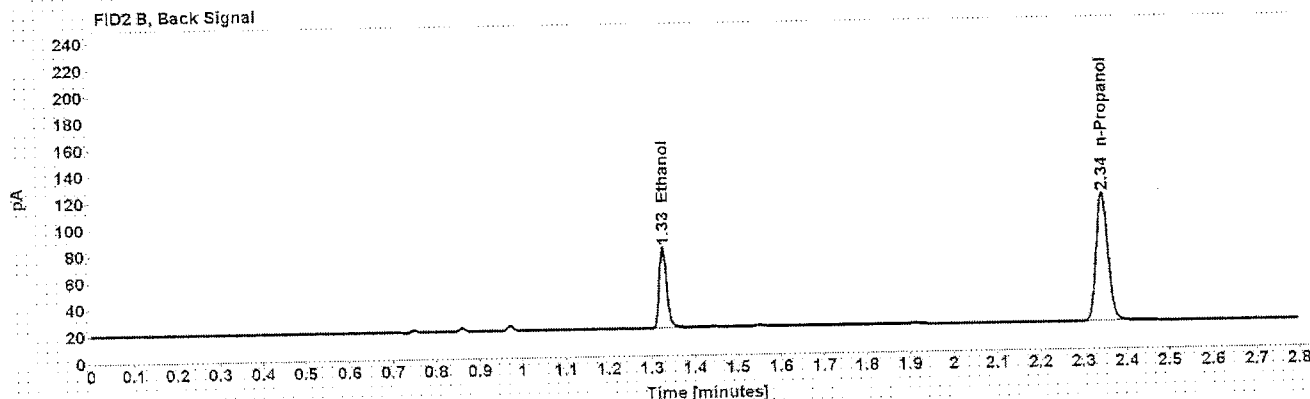
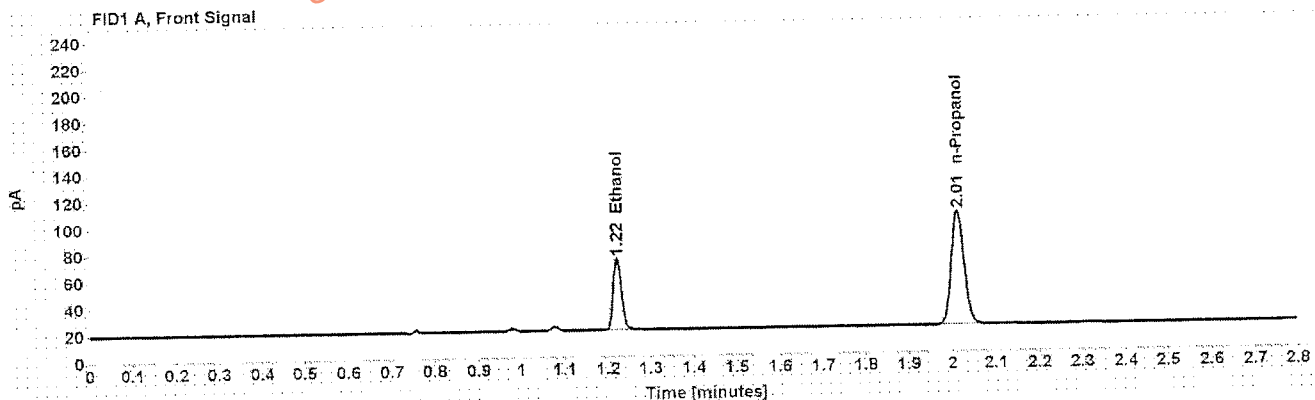


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1097	1.223	70.886
n-Propanol	-----	2.013	175.916

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

Compound	Time (min)	Peak Area
Ethanol	1.326	73.023
n-Propanol	2.344	181.466

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1112191  
Injection date: 9/13/2016 10:52:18 PM Vial: 54  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\54.D

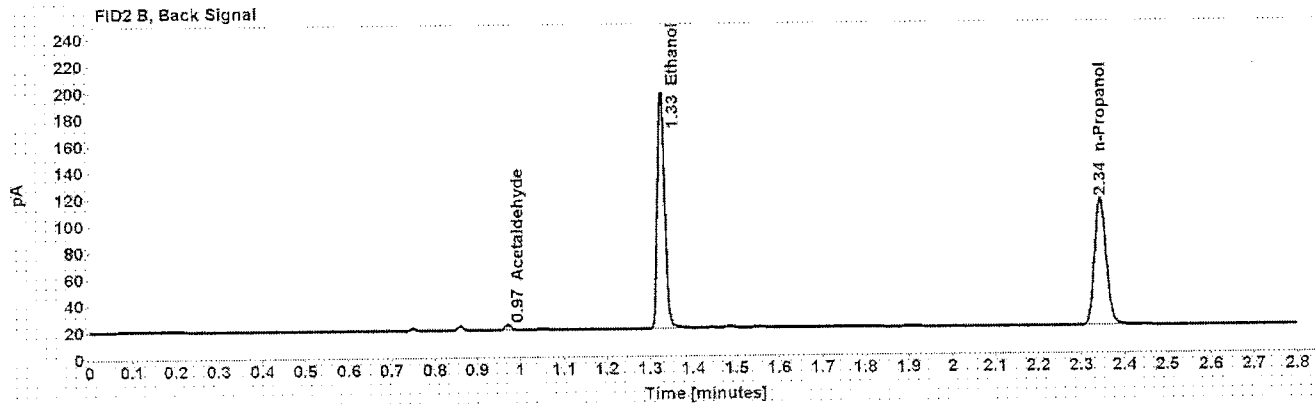
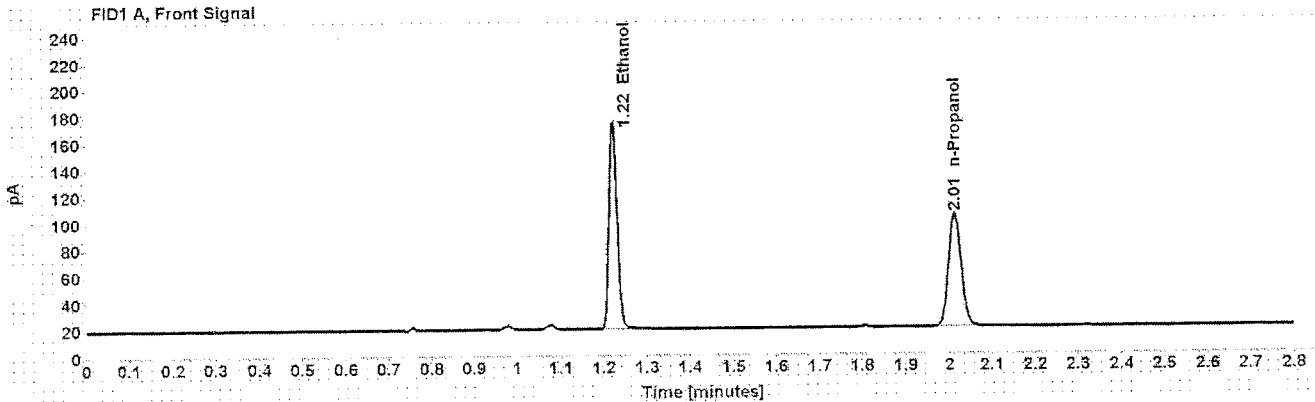


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3190	1.223	205.043
n-Propanol	-----	2.014	174.153

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.961
Ethanol	1.326	212.815
n-Propanol	2.344	178.903

Case: [REDACTED] User: alangan 9/14/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1112191  
Injection date: 9/13/2016 10:56:34 PM Vial: 55  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: CaChem321Data\13Sep16\55.D

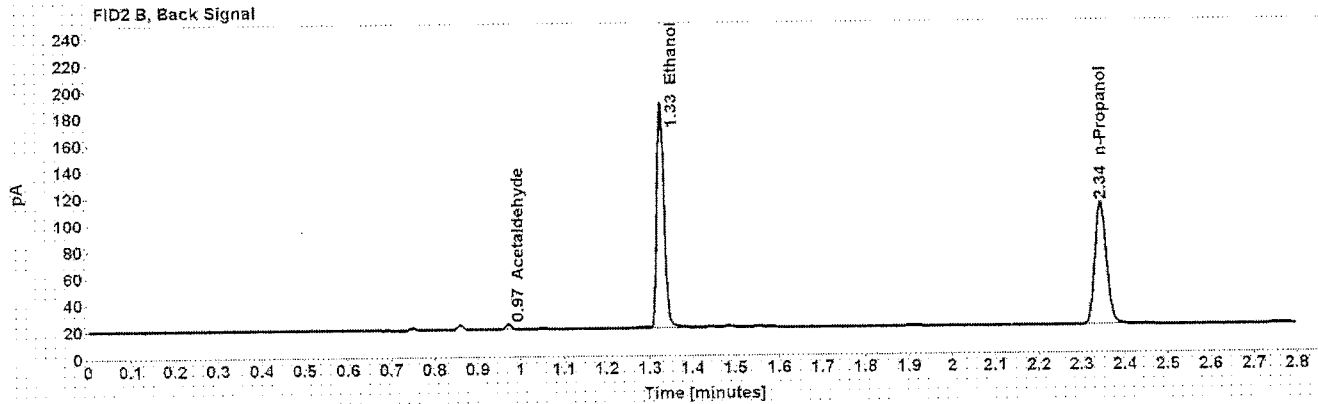
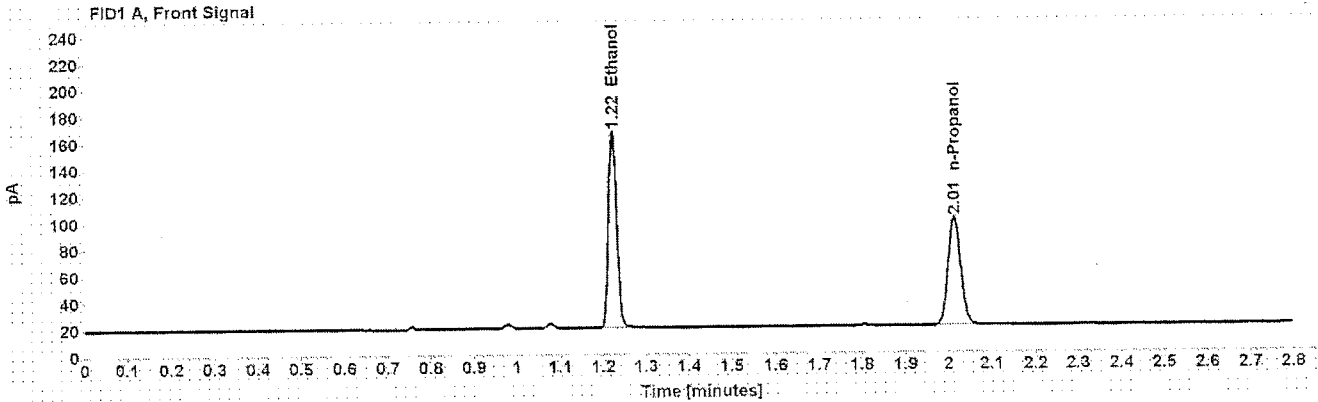


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3168	1.223	195.176
n-Propanol	-----	2.014	166.924

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.938
Ethanol	1.326	203.184
n-Propanol	2.344	171.583



Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1113787
Injection date:	9/13/2016 11:00:34 PM	Vial:	56
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem321\Data\13Sep16\56.D		

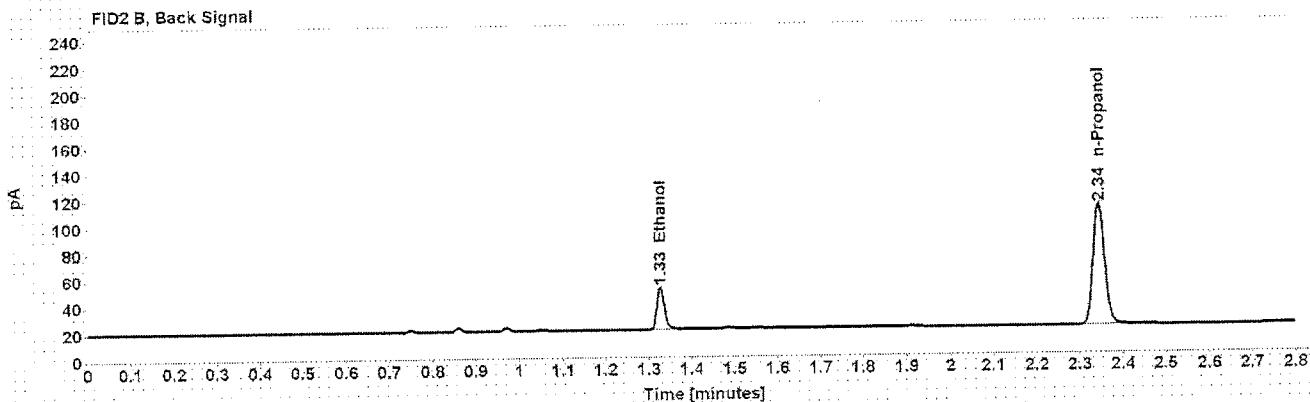
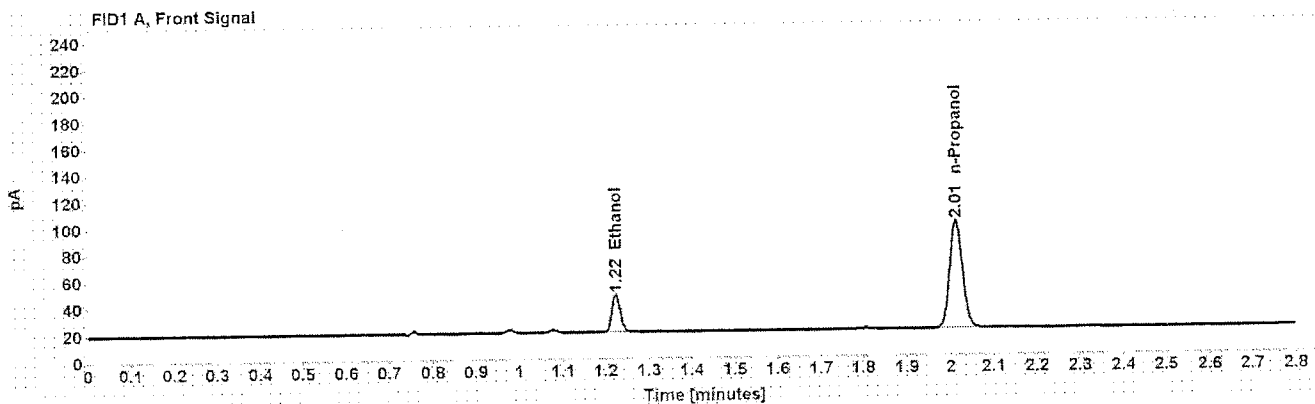


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0612	1.224	37.058
n-Propanol	-----	2.014	166.024

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

Compound	Time (min)	Peak Area
Ethanol	1.327	38.085
n-Propanol	2.344	170.955

Case: [REDACTED] User: alangan 9/14/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1113787  
Injection date: 9/13/2016 11:04:34 PM Vial: 57  
Method: ethanol quant.M Sequence: 13Sep16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\13Sep16\57.D

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

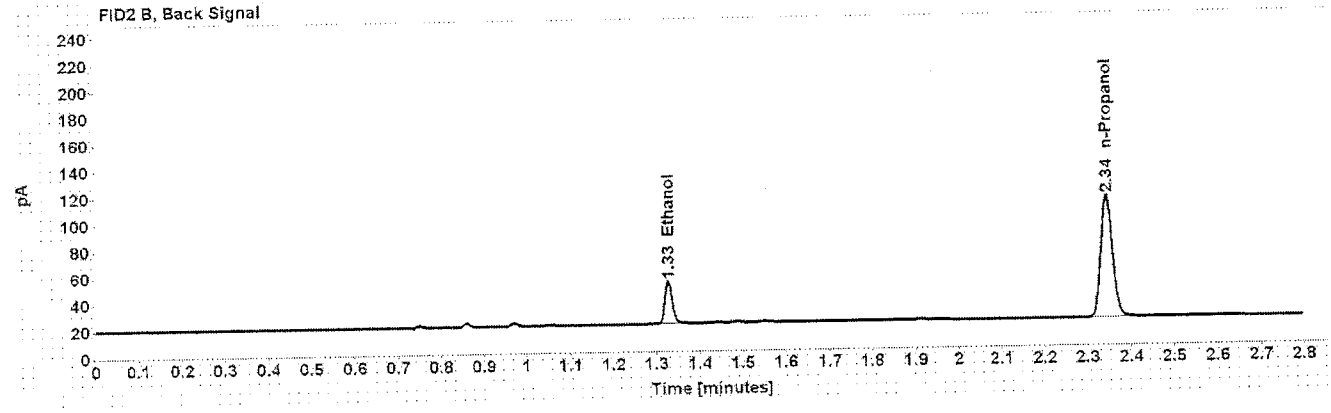
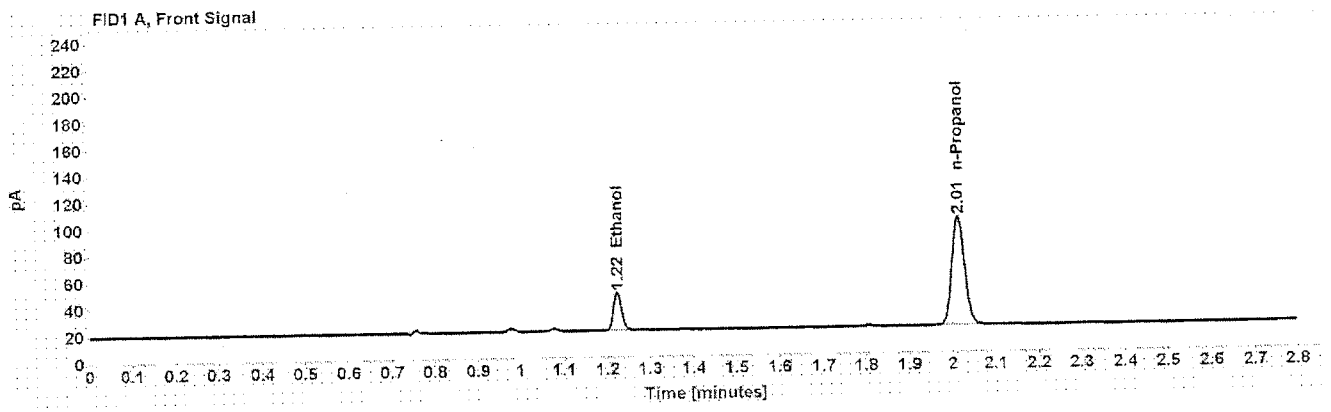


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0610	1.224	37.244
n-Propanol	-----	2.014	167.239

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

Compound	Time (min)	Peak Area
Ethanol	1.327	38.858
n-Propanol	2.344	172.315

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 407041529/3	Item number:
Injection date: 9/13/2016 11:08:34 PM	Vial: 58
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\13Sep16\058F5801.D	

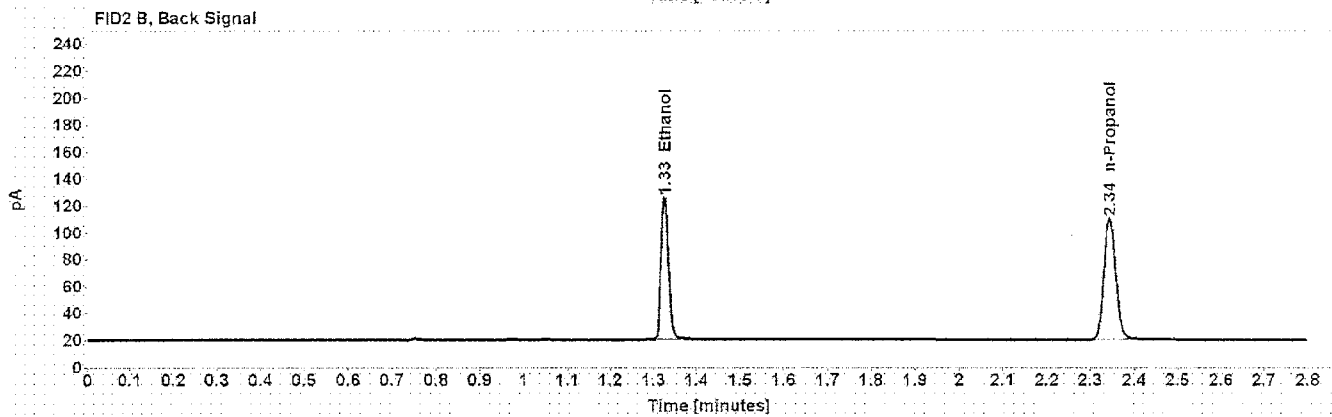
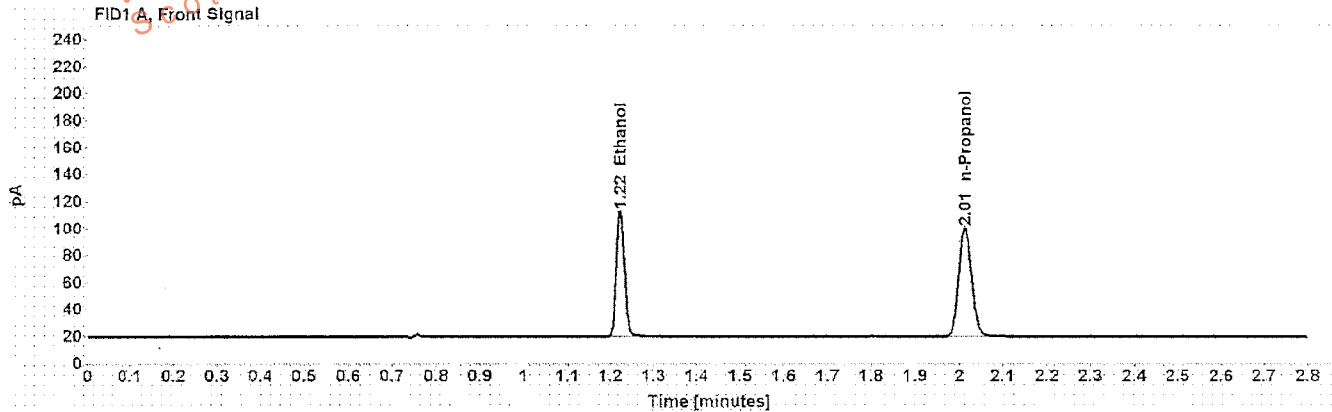


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2015	1.223	123.143
n-Propanol	-----	2.013	165.832

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

Compound	Time (min)	Peak Area
Ethanol	1.326	126.994
n-Propanol	2.344	170.499

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 407041529/3	Item number:
Injection date: 9/13/2016 11:12:34 PM	Vial: 59
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023.CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\11\Data\13Sep16\059F5901.D	

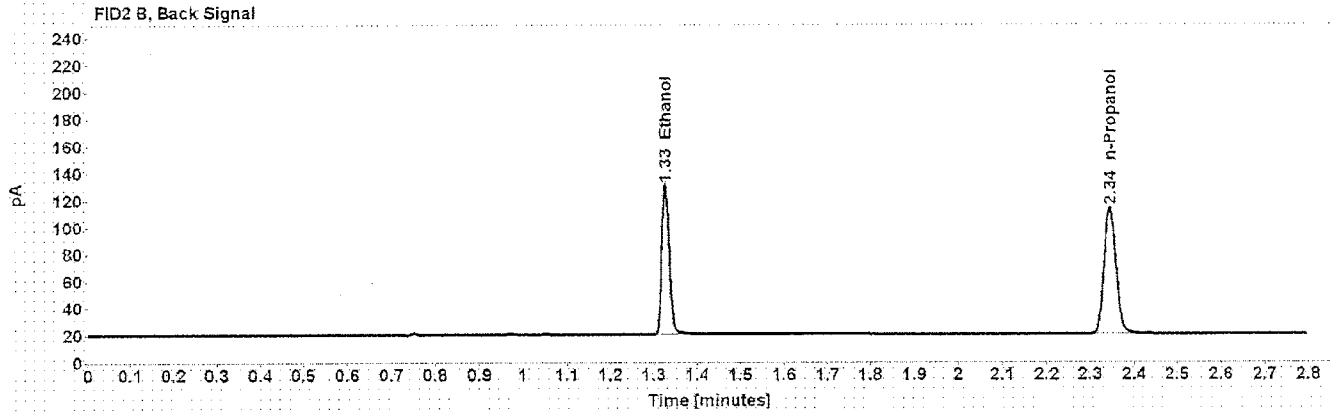
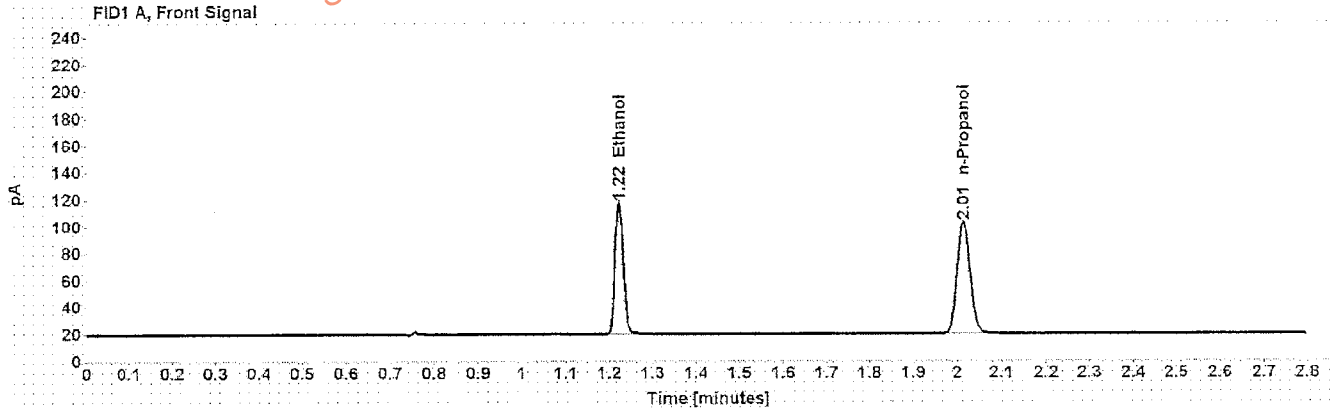


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2029	1.223	128.382
n-Propanol	-----	2.014	171.668

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

Compound	Time (min)	Peak Area
Ethanol	1.326	132.507
n-Propanol	2.344	176.261

# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

<b>Sample:</b> 0.30 Lipomed 18052015-A/1	<b>Item number:</b>
<b>Injection date:</b> 9/13/2016 11:16:34 PM	<b>Vial:</b> 60
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 13Sep16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan <i>AL</i>
<b>Data file:</b> C:\Chem32\1\Data\13Sep16\060F6001.D	

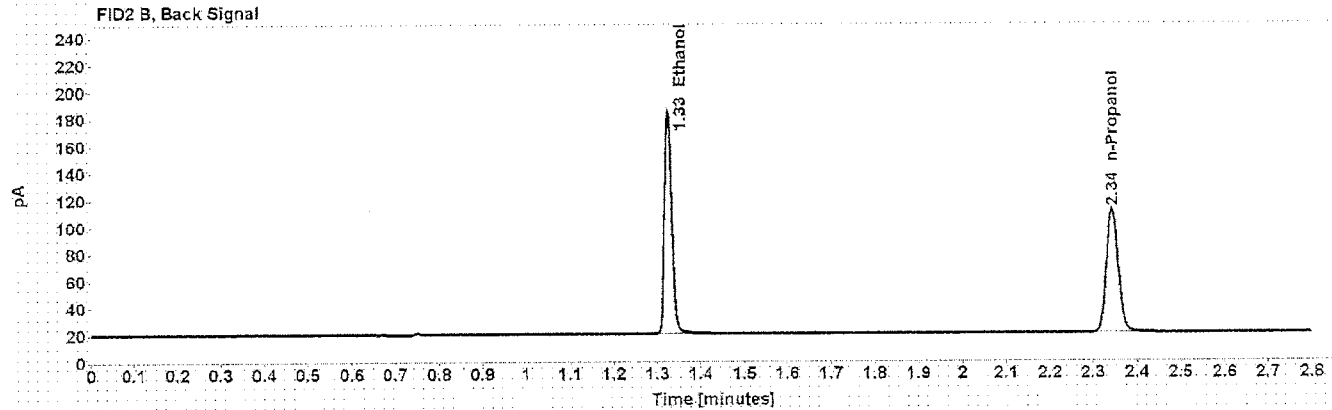
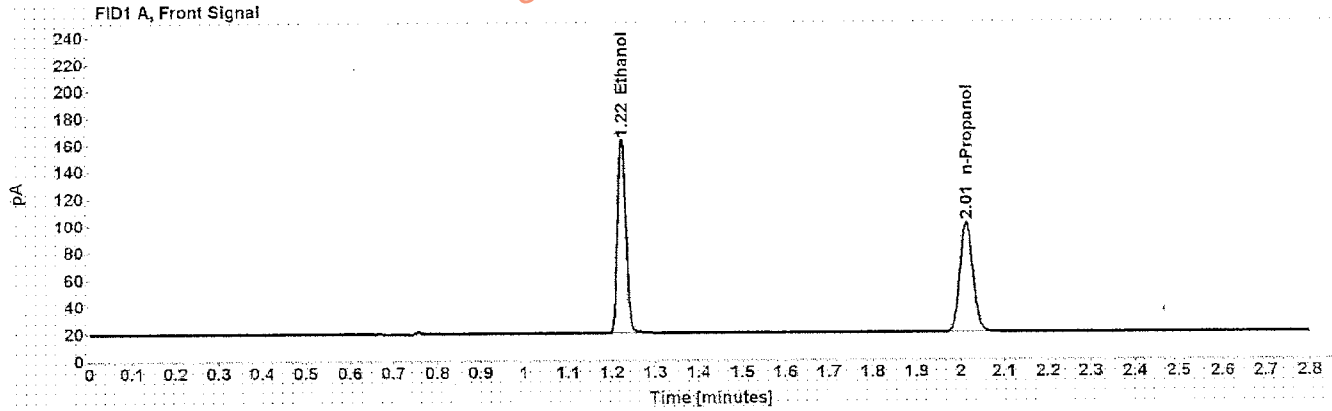


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3066	1.222	190.361
n-Propanol	-----	2.013	168.212

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

Compound	Time (min)	Peak Area
Ethanol	1.325	197.032
n-Propanol	2.344	172.721

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.30 Lipomed 18052015-AV1	Item number:
Injection date: 9/13/2016 11:20:49 PM	Vial: 61
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\1Data\13Sep16\061F6101.D	

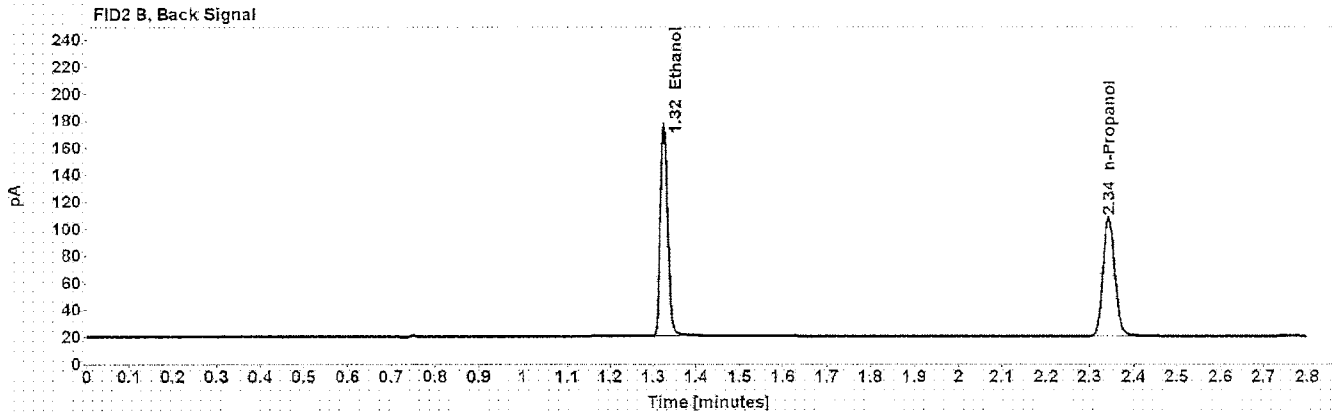
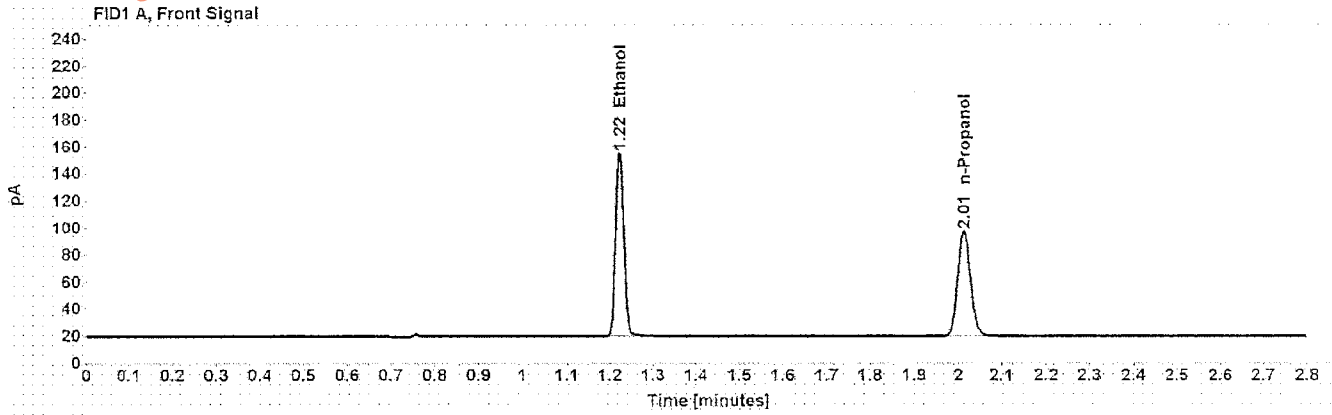


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3024	1.222	180.043
n-Propanol	-----	2.013	161.302

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

Compound	Time (min)	Peak Area
Ethanol	1.325	186.238
n-Propanol	2.343	165.504

# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies and authorized Non-C.J. Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.

Sample: 0.04 Lipomed 09022015-A	Item number:
Injection date: 9/13/2016 11:24:48 PM	Vial: 62
Method: ethanol quant.M	Sequence: 13Sep16
Instrument: US14173023-CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\11\Data\13Sep16\062F6201.D	

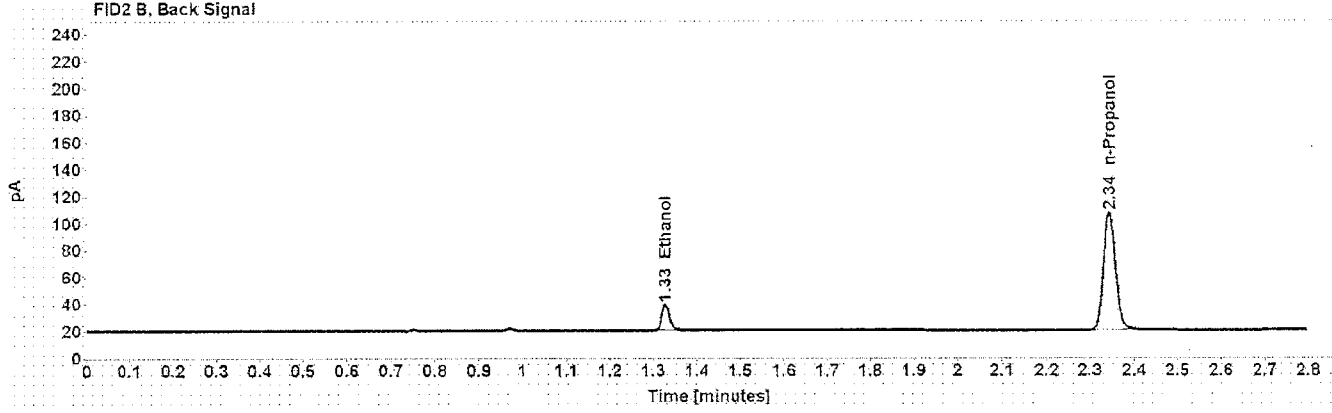
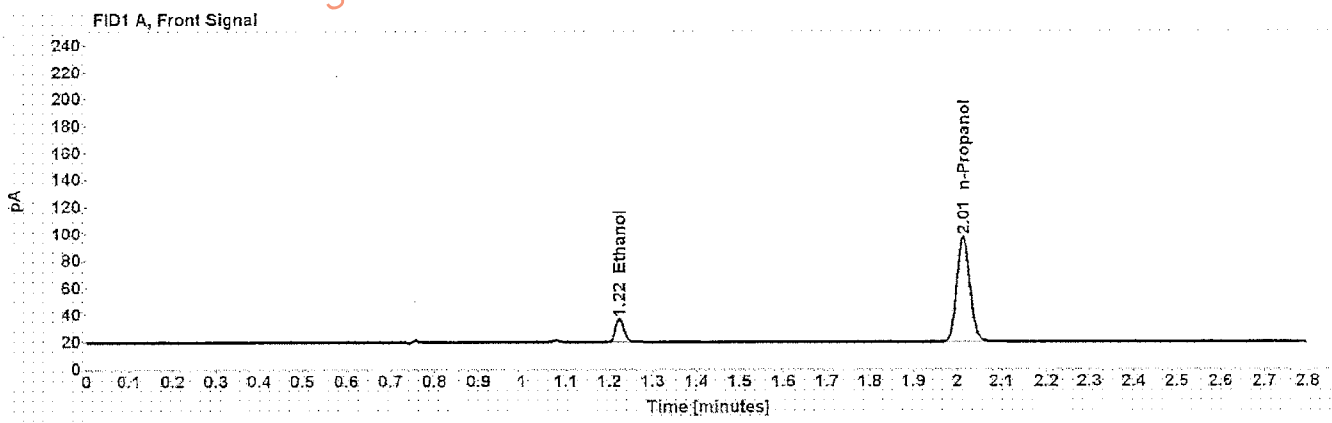


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0396	1.224	23.085
n-Propanol	-----	2.013	160.973

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

Compound	Time (min)	Peak Area
Ethanol	1.327	23.594
n-Propanol	2.344	165.150

# Scottsdale Police Department Crime Lab Volatiles Analysis

Dissemination is restricted to Criminal Justice Agencies ONLY. Secondary dissemination to unauthorized agencies is PROHIBITED.  
Scottsdale City Prosecutor

Sample:	0.04 Lipomed 09022015-A	Item number:	63
Injection date:	9/13/2016 11:28:49 PM	Vial:	63
Method:	ethanol quant.M	Sequence:	13Sep16
Instrument:	US14173023 CN14160045	Analyst:	Langan <i>AL</i>
Data file:	C:\Chem32\1\Data\13Sep16\063F6301.D		

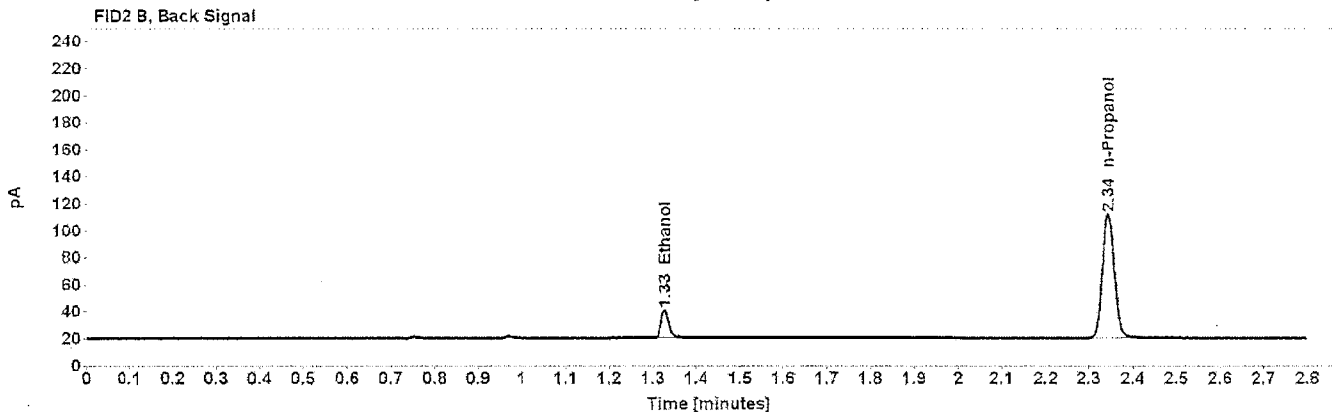
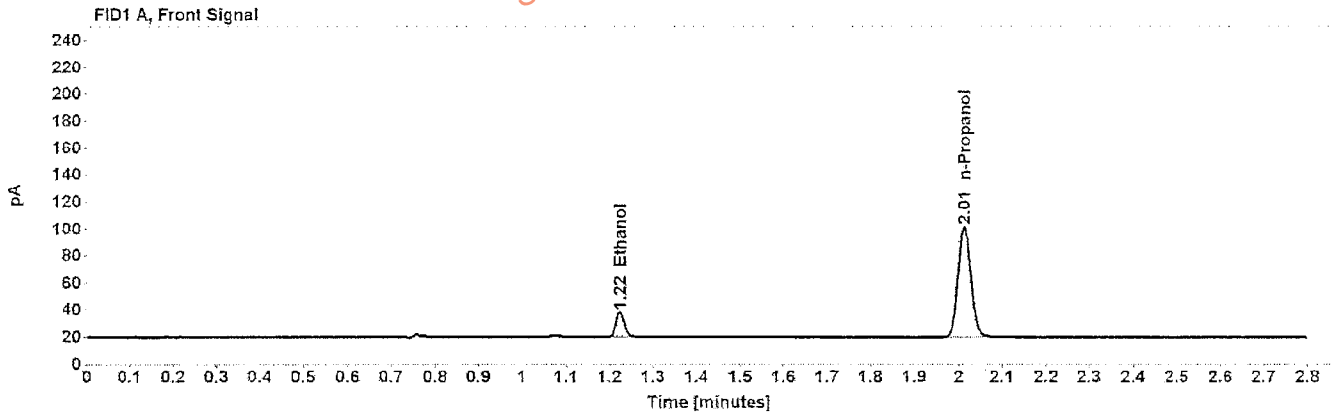


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0400	1.224	24.466
n-Propanol	-----	2.013	168.863

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

Compound	Time (min)	Peak Area
Ethanol	1.327	25.070
n-Propanol	2.344	173.470