

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 08/25/2016 SEQUENCE NAME 25Aug16

### EQUIPMENT

Pipettor  Hamilton ML600EH7497  Hamilton MD91JF5016  
 Gas Chromatograph  Agilent US14173023  Perkin Elmer 650N9042002

### INSTRUMENT CALIBRATION

Vial 1	0.02 calibrator	Lot	<u>FN08101401</u>	Coefficient of determination ( $r^2$ )	
Vial 2	0.10 calibrator	Lot	<u>FN06181501</u>		<u>0.99996</u>
Vial 3	0.20 calibrator	Lot	<u>FN07201502</u>		
Vial 4	0.40 calibrator	Lot	<u>FN11191402</u>		

### 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 110215
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	0.040g/dL	Lipomed 30112011-B
9	blood control	0.200 g/dL	0.203g/dL	ACQ 402101060/6
20	aqueous control	0.080 g/dL	0.079g/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	0.079g/dL	Lipomed 14112011-A
56	aqueous control	0.400 g/dL	0.403g/dL	Lipomed 05012012-C
57	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
58	blood control	0.200 g/dL	0.203g/dL	ACQ 402101060/6
59	blank	Not detected	Not detected	SPD lab 110215

### SUBJECT SAMPLES

Subjects in the sequence 21 Subjects requiring reanalysis 0

**ADDITIONAL NOTES: All testing proceeded as expected. DR #: 15-01106 was removed from sequence and not tested since it had previously been tested by the Arizona Department of Public Safety.**

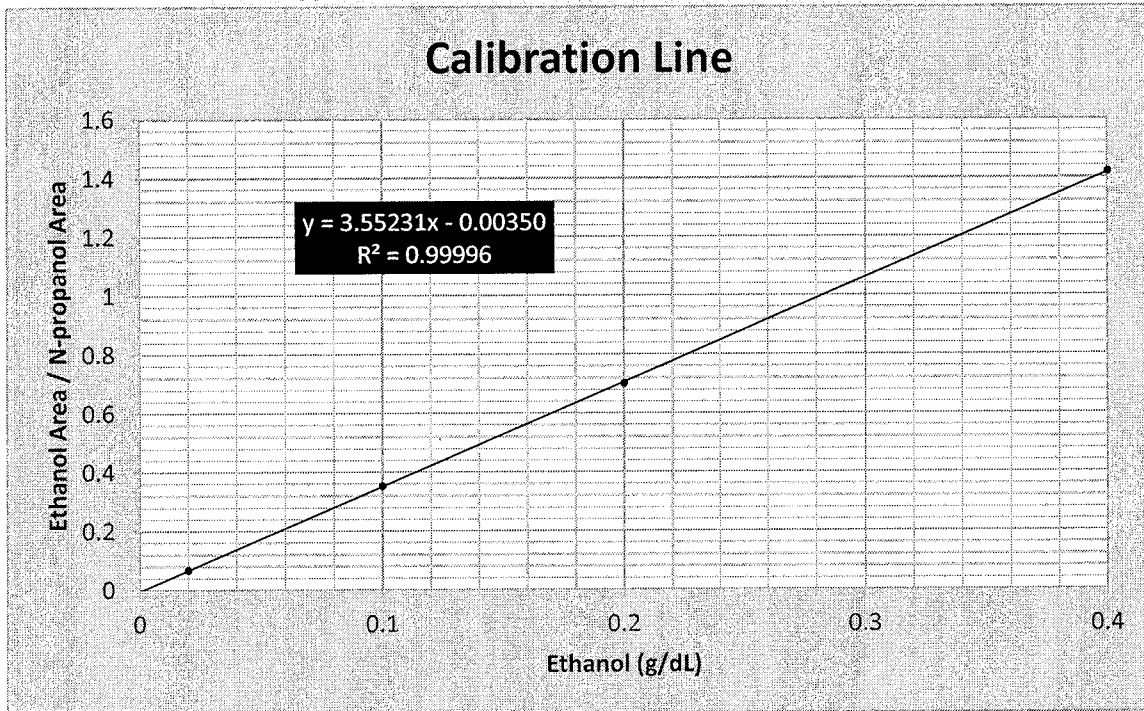
Run valid  Run invalid   
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Amy Longan Analyst KOSECKI 8/29/16 Technical Reviewer

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

SEQUENCE NAME: 25Aug16

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	0.040	0.00	0.000
4	9	0.200	0.203	1.50	0.003
5	20	0.080	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	0.080	0.079	1.25	-0.001
9	56	0.400	0.403	0.75	0.003
10	57	0.040	0.040	0.00	0.000
11	58	0.200	0.203	1.50	0.003
12	59	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.342	164.912	0.069
0.100	60.076	169.850	0.354
0.200	116.332	165.791	0.702
0.400	234.480	165.183	1.420



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.02 Cerilliant FN08101401	Item number:
Injection date: 8/25/2016 1:40:59 PM	Vial: 1
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\1\Data\25Aug16\1.D	

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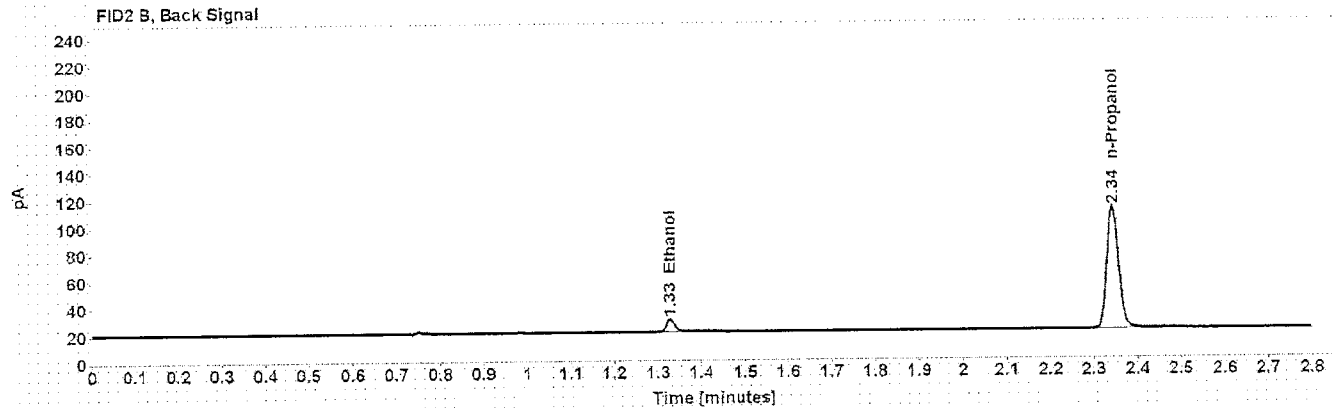
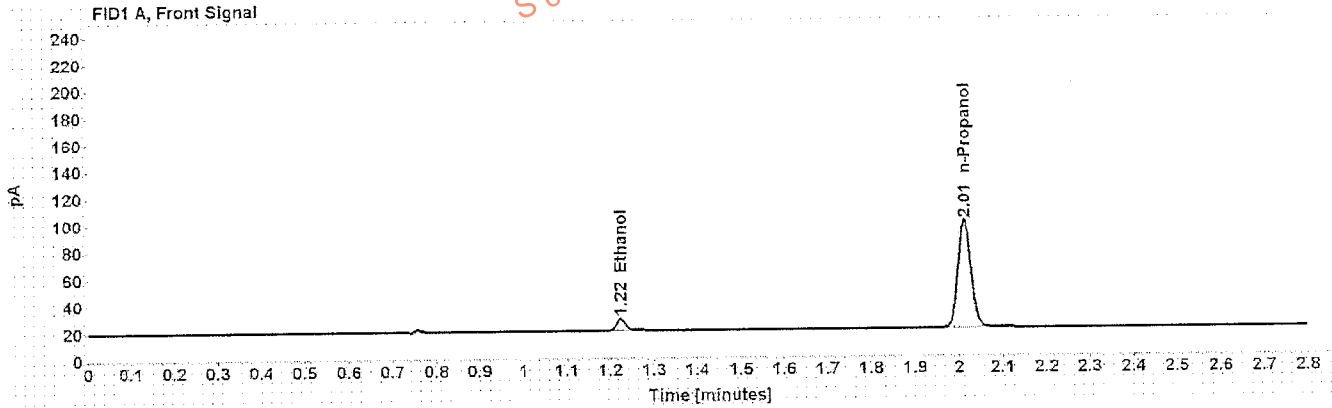


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.224	11.342
n-Propanol	2.013	164.912

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

Compound	Time (min)	Peak Area
Ethanol	1.328	11.557
n-Propanol	2.344	169.149

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.10 Cerilliant FN06181501	<b>Item number:</b>
<b>Injection date:</b> 8/25/2016 1:44:59 PM	<b>Vial:</b> 2
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 25Aug16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan <i>YY</i>
<b>Data file:</b> C:\Chem32\1\Data\25Aug16\2.D	

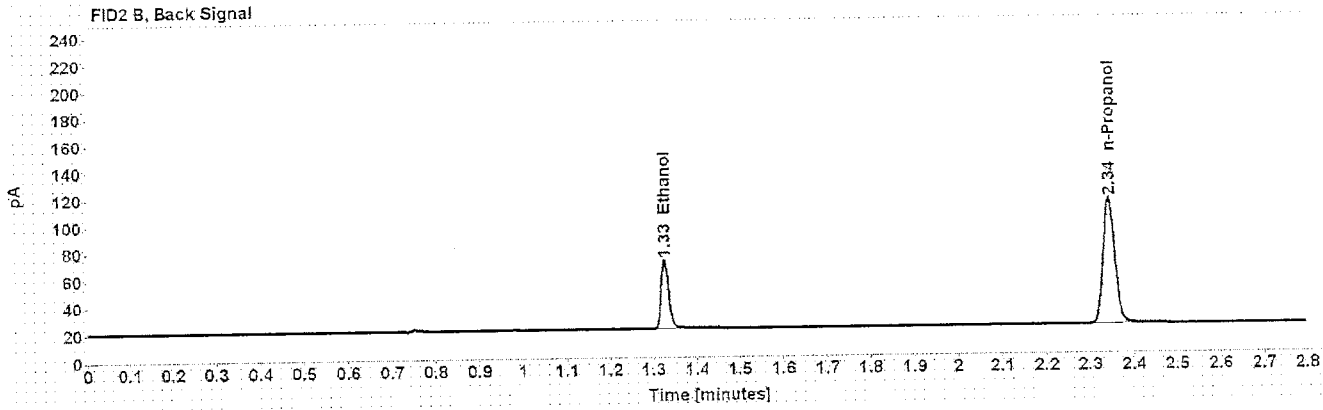
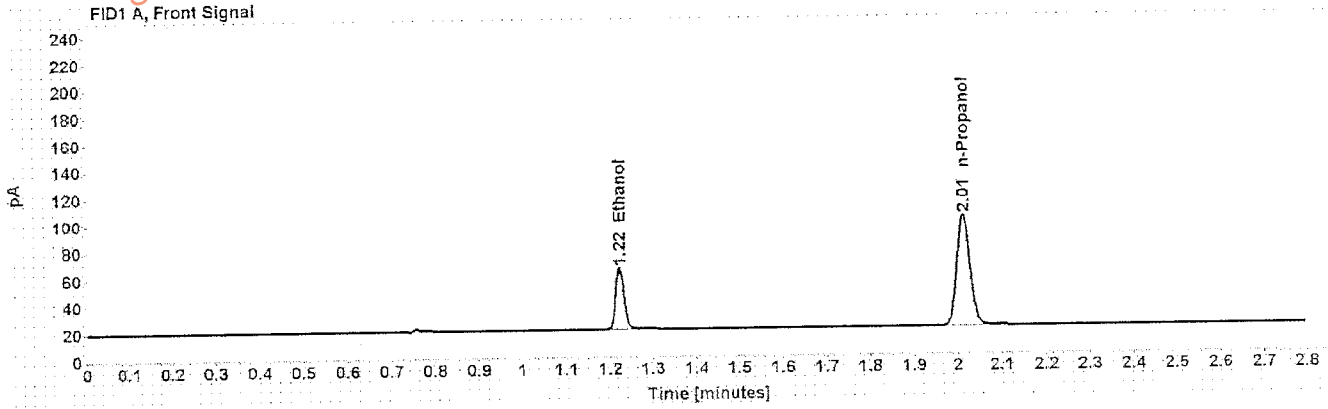


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.223	60.076
n-Propanol	2.013	169.850

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

Compound	Time (min)	Peak Area
Ethanol	1.326	61.362
n-Propanol	2.343	174.225

# Scottsdale Police Department Crime Lab Volatiles Analysis

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Sample:	0.20 Cerilliant FN07201502	Item number:	
Injection date:	8/25/2016 1:48:59 PM	Vial:	3
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023-CN14160045	Analyst:	Langan <i>HL</i>
Data file:	C:\Chem3211\Data\25Aug16\3.D		

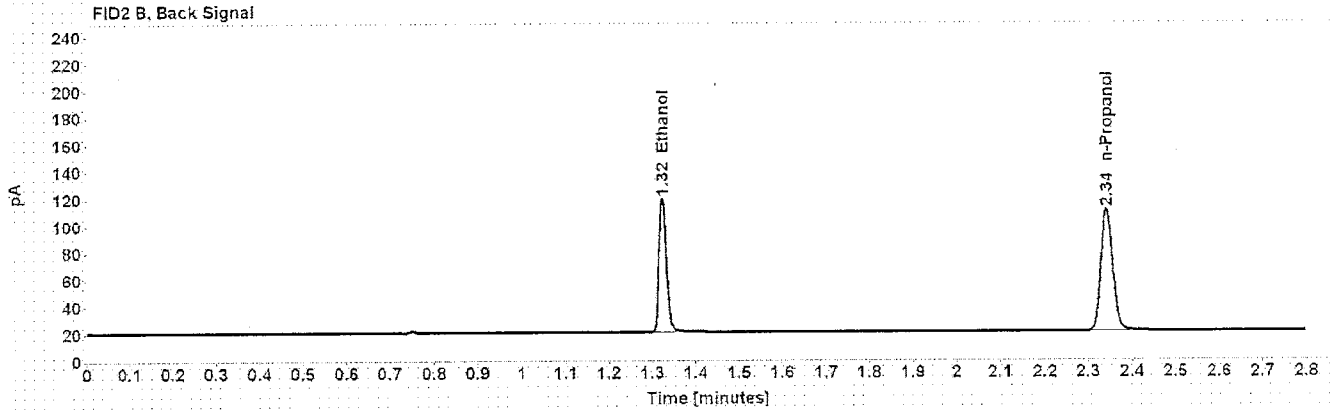
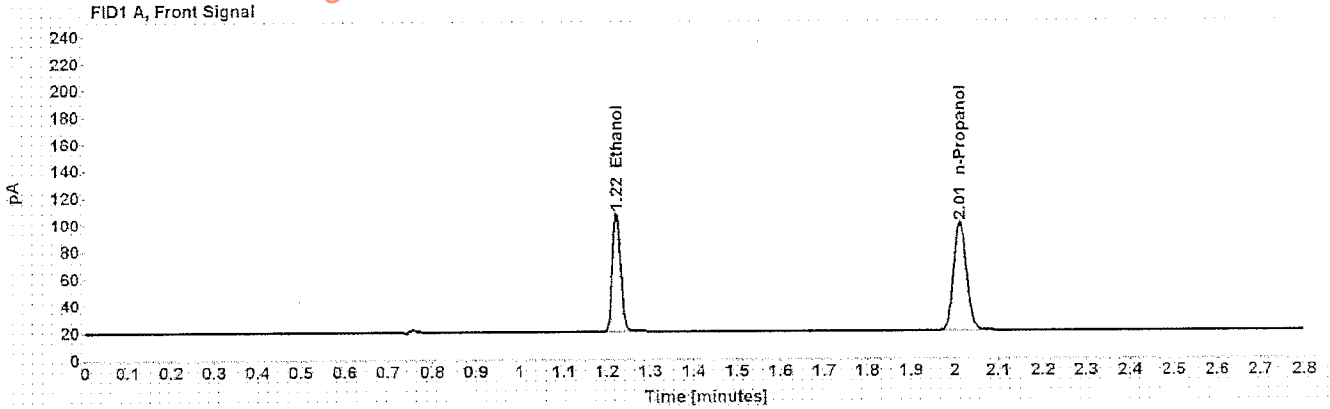


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.222	116.332
n-Propanol	2.012	165.791

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

Compound	Time (min)	Peak Area
Ethanol	1.324	119.437
n-Propanol	2.342	170.066

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Cerilliant FN11191402	Item number:
Injection date: 8/25/2016 1:52:58 PM	Vial: 4
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\25Aug16\4.D	

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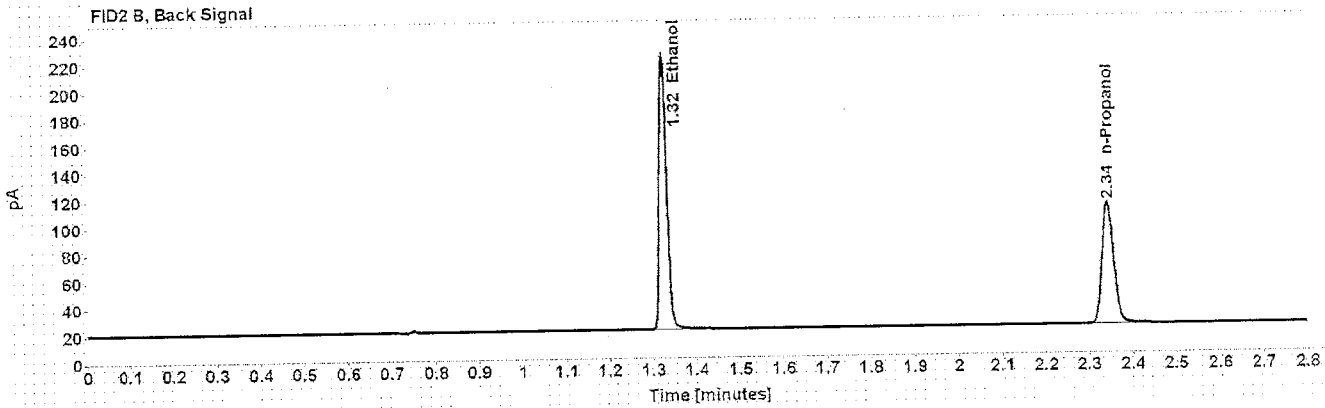
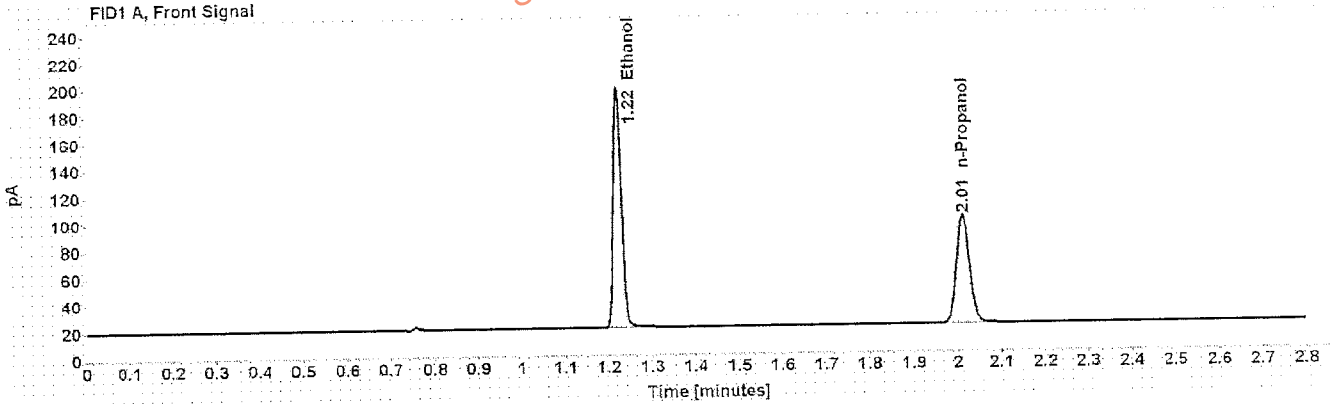


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.222	234.480
n-Propanol	2.013	165.183

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

Compound	Time (min)	Peak Area
Ethanol	1.325	242.339
n-Propanol	2.343	169.406

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> blank 110216 <b>Injection date:</b> 8/25/2016 1:56:58 PM <b>Method:</b> ethanol quant.M <b>Instrument:</b> US14173023 CN14160045 <b>Data file:</b> C:\Chem3211\Data\25Aug16\5.D	<b>Item number:</b> <b>Vial:</b> 5 <b>Sequence:</b> 25Aug16 <b>Analyst:</b> Langan <i>NR</i>
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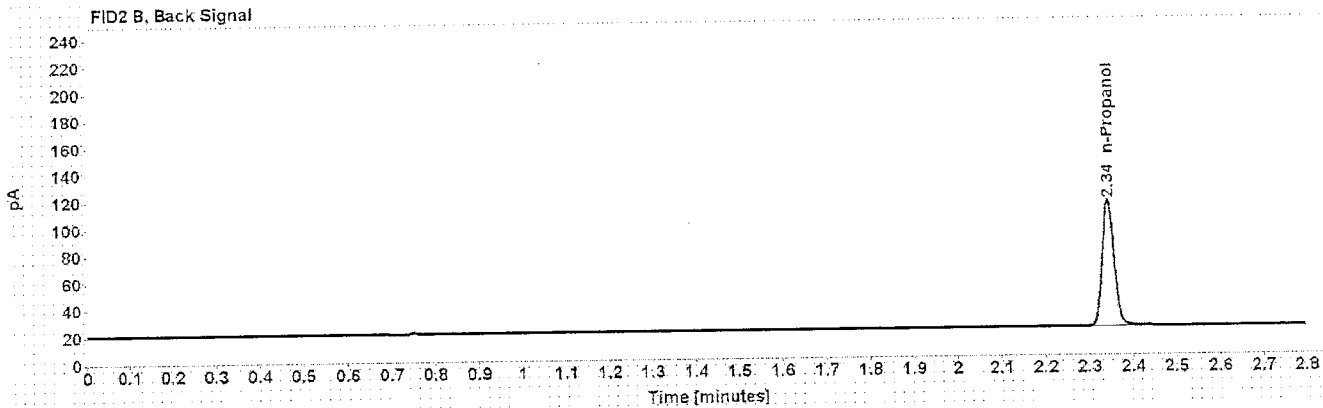
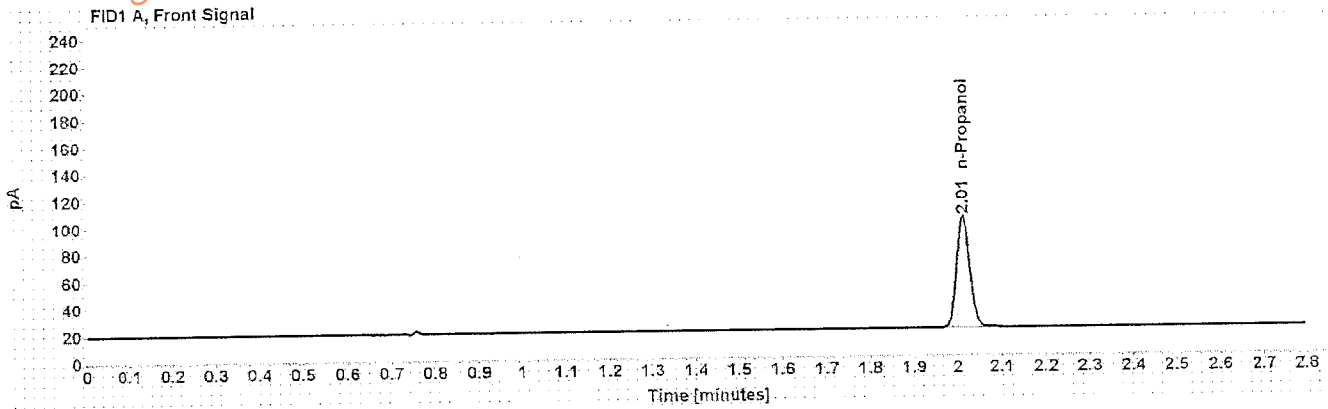


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	170.802

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

Compound	Time (min)	Peak Area
n-Propanol	2.343	175.242

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: volatiles mix 030916 ASL	Item number: 6
Injection date: 8/25/2016 2:00:59 PM	Vial: 25Aug16
Method: ethanol quant.M	Sequence: Langan
Instrument: US14173023-CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\25Aug16\6.D	

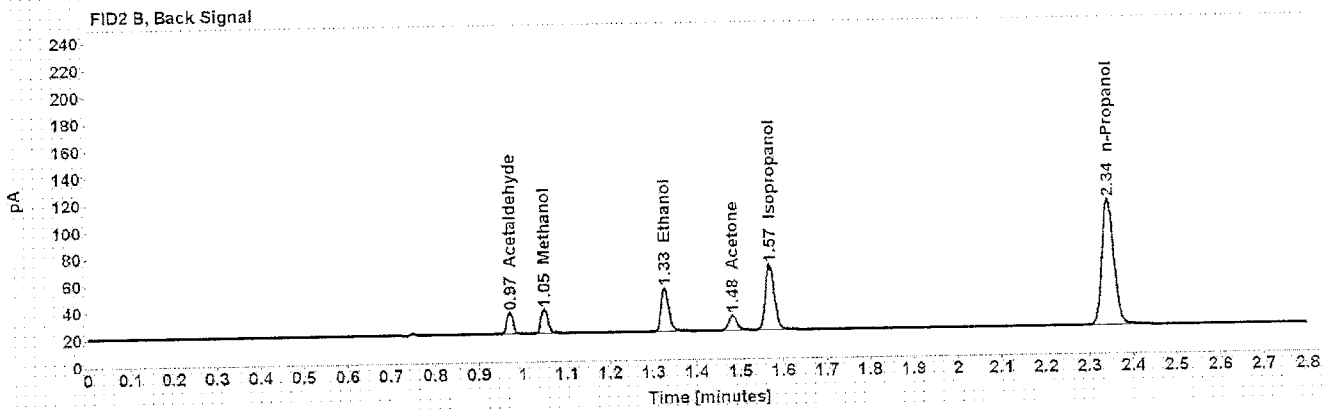
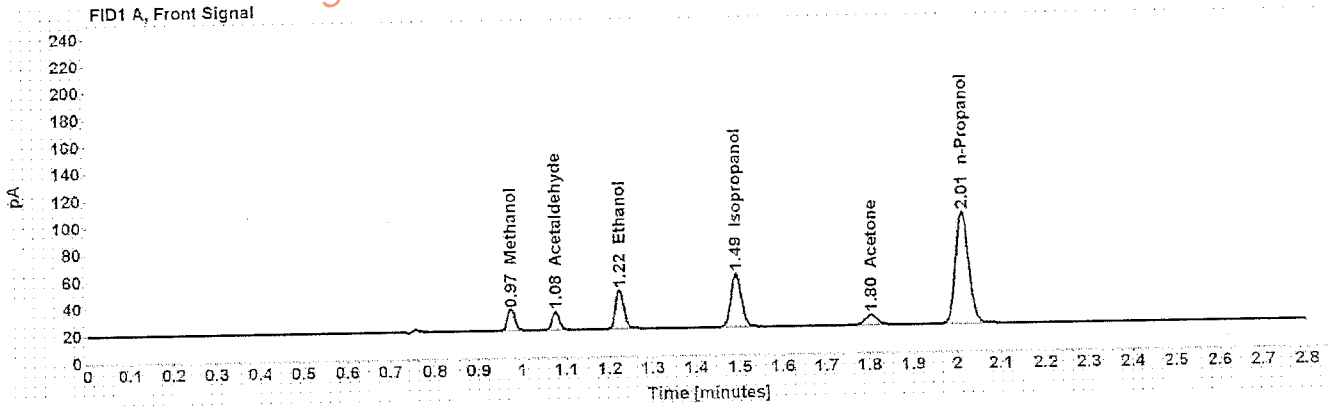


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.975	18.786
Acetaldehyde	-----	1.076	15.420
>Ethanol	0.0634	1.223	38.004
Isopropanol	-----	1.492	66.602
Acetone	-----	1.803	13.998
n-Propanol	-----	2.013	171.450

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	16.186
Methanol	1.049	19.177
Ethanol	1.327	38.899
Acetone	1.483	14.089
Isopropanol	1.569	69.315
n-Propanol	2.344	176.041



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number: 7
Injection date: 8/25/2016 2:05:14 PM	Vial: 7
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>W</i>
Data file: C:\Chem32\1\Data\25Aug16\7.D	

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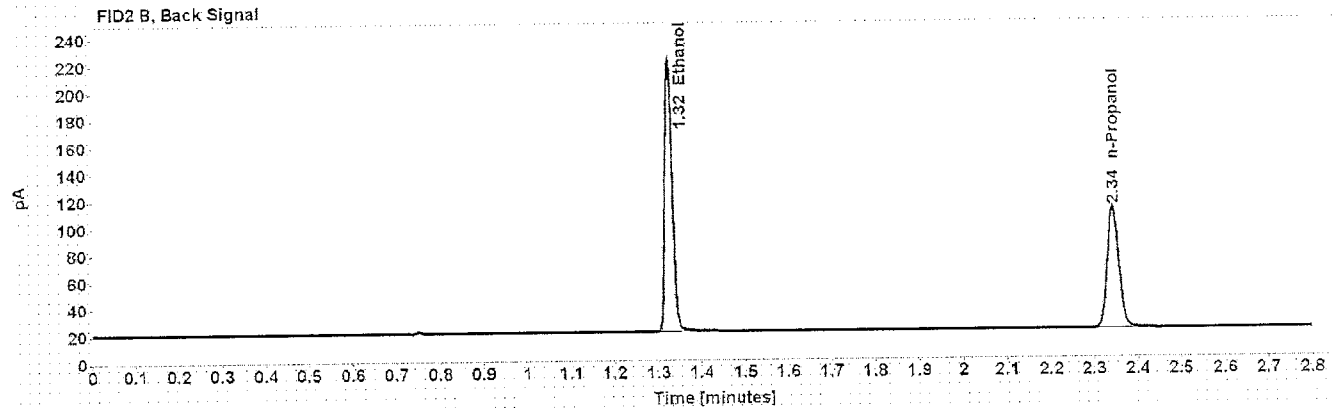
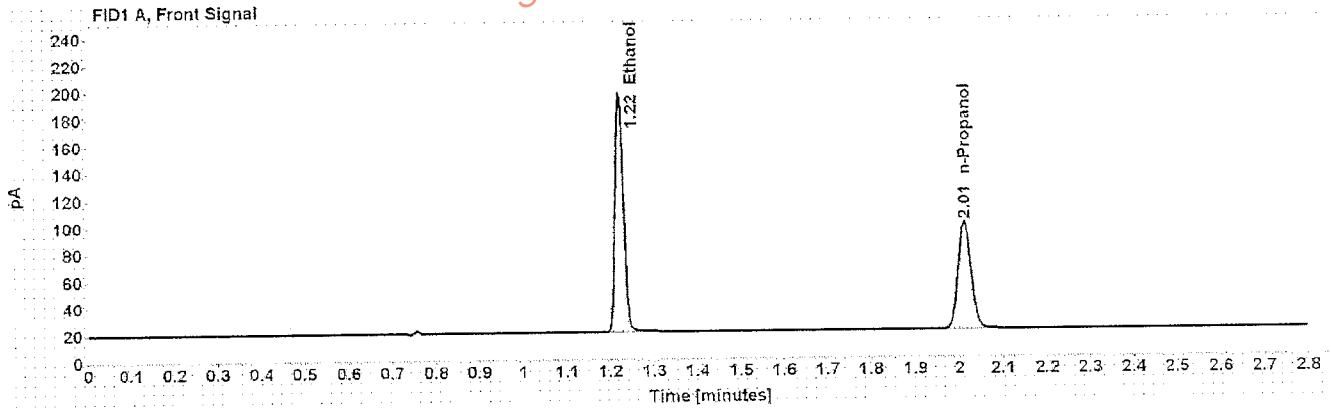


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3988	1.222	232.809
n-Propanol	-----	2.013	164.760

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

Compound	Time (min)	Peak Area
Ethanol	1.325	240.000
n-Propanol	2.343	169.098

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112041-B	Item number:
Injection date: 8/25/2016 2:09:14 PM	Vial: 8
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>HL</i>
Data file: C:\Chem3211\Data\25Aug16\8.D	

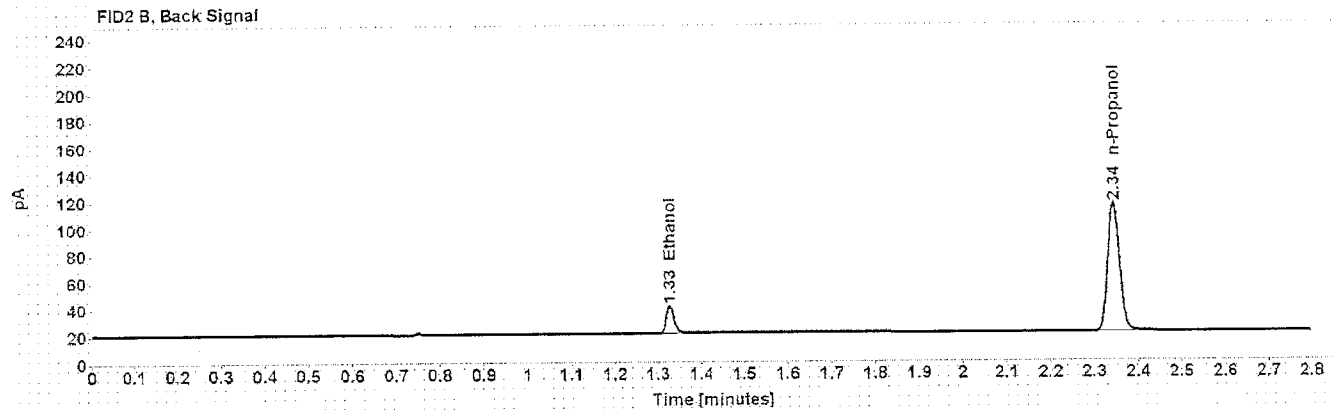
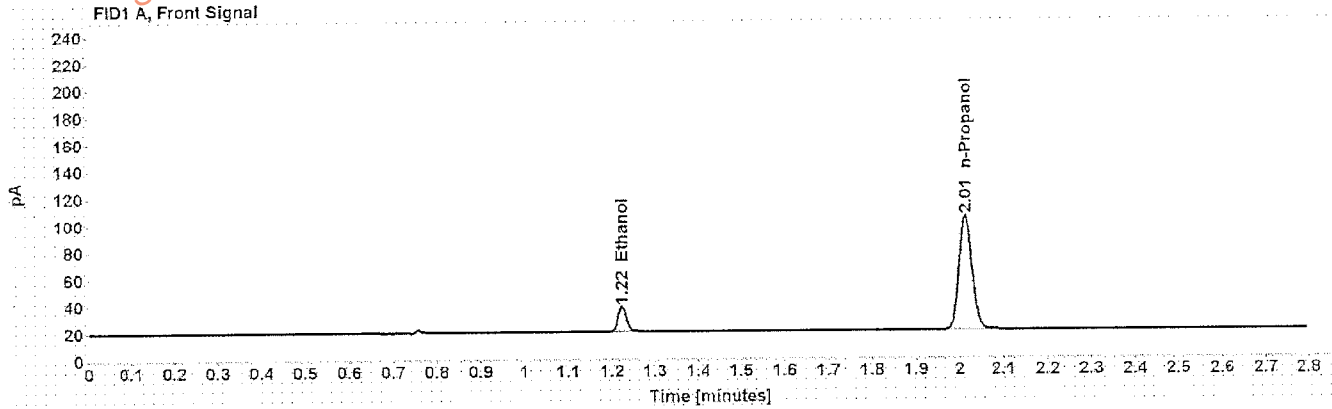


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0402	1.224	24.294
n-Propanol	-----	2.013	174.322

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

Compound	Time (min)	Peak Area
Ethanol	1.327	24.739
n-Propanol	2.343	179.193

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 8/25/2016 2:13:14 PM	Vial: 9
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023-CN14160045	Analyst: Langan <i>XL</i>
Data file: C:\Chem3211\Data\25Aug16\9.D	

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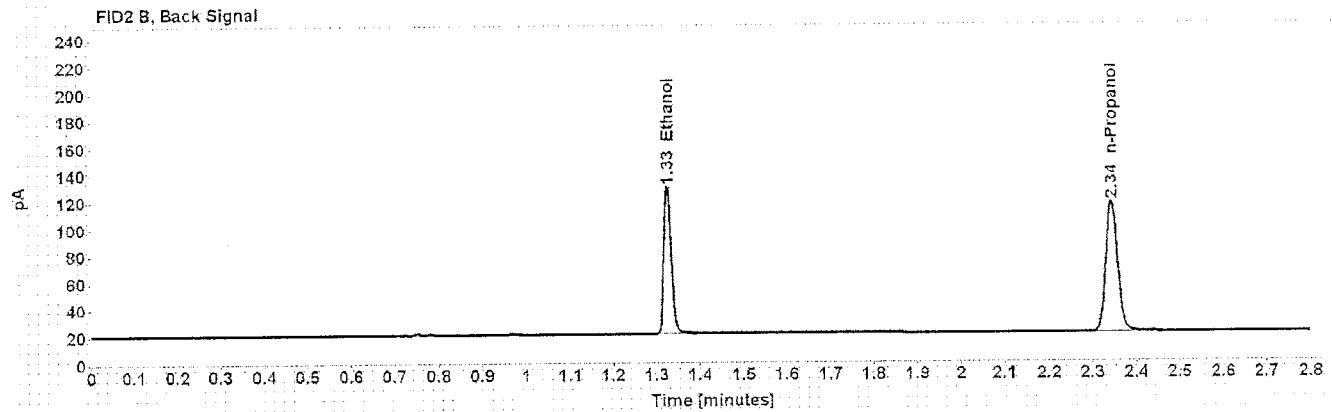
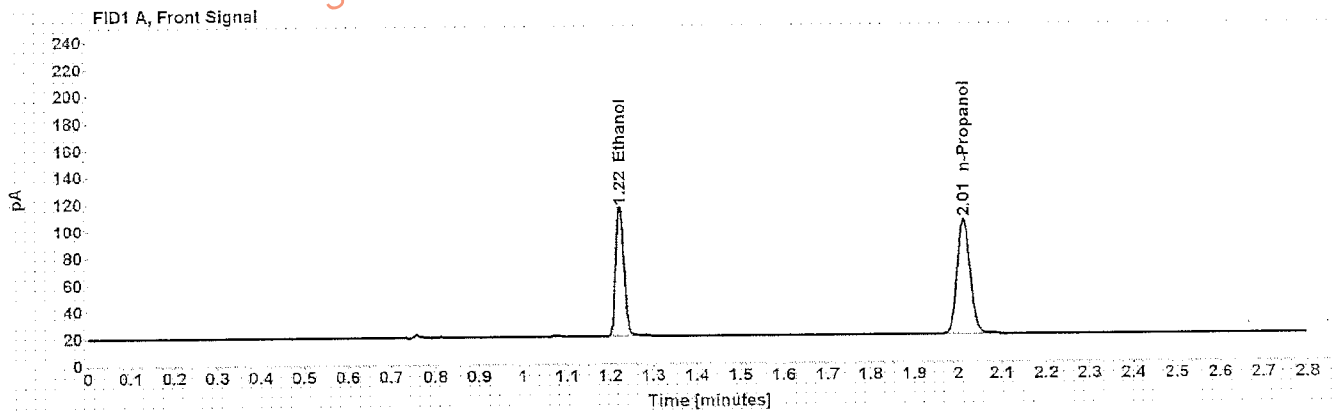


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2035	1.223	127.240
n-Propanol	-----	2.013	176.890

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

Compound	Time (min)	Peak Area
Ethanol	1.326	130.540
n-Propanol	2.344	181.971

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.080 Lipomed 14112011-A	Item number: 20
Injection date: 8/25/2016 2:57:43 PM	Vial: 20
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\1\Data\25Aug16\20.D	

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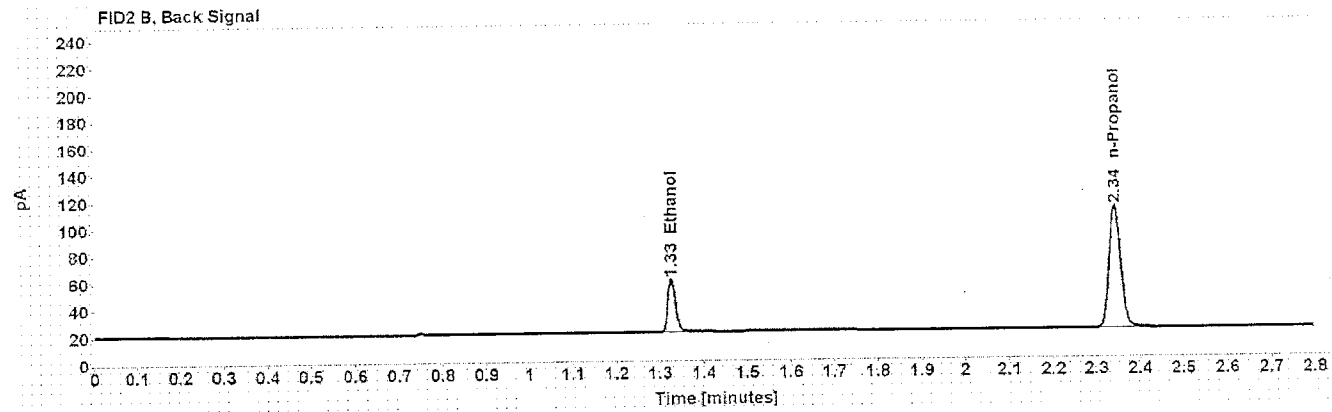
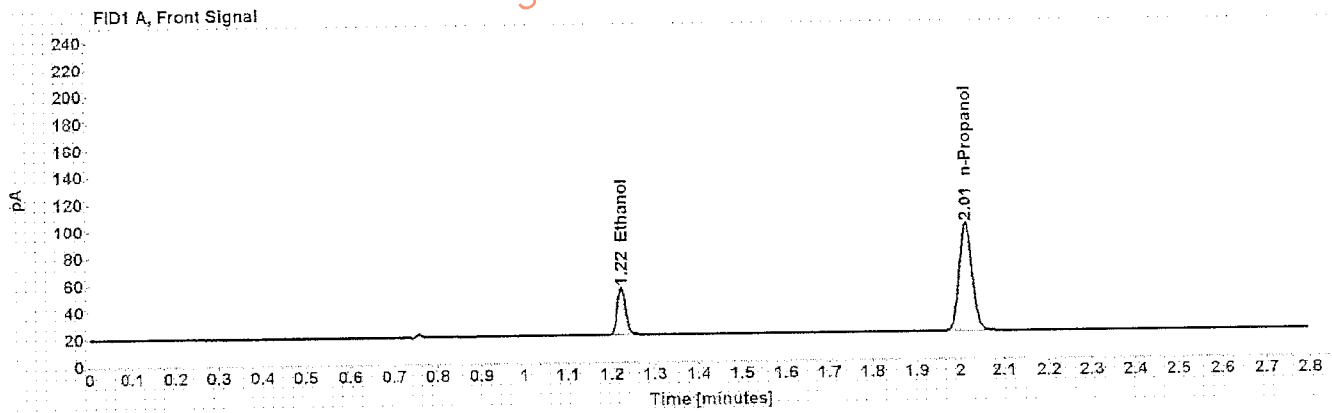


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0798	1.223	46.276
n-Propanol	-----	2.013	165.257

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

Compound	Time (min)	Peak Area
Ethanol	1.326	47.403
n-Propanol	2.343	169.916

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.150 Lipomed 11012012-C	<b>Item number:</b>
<b>Injection date:</b> 8/25/2016 3:42:14 PM	<b>Vial:</b> 31
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 25Aug16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan <i>LL</i>
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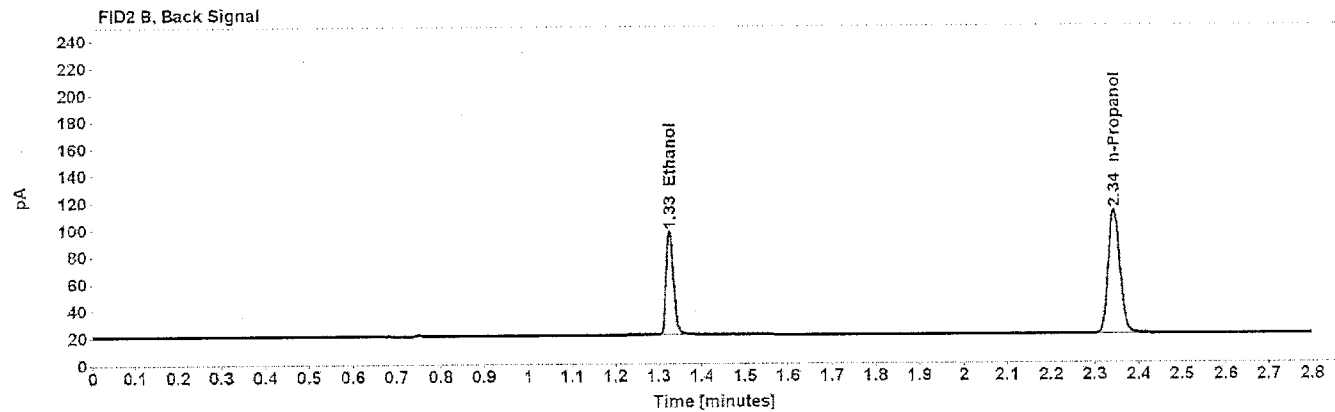
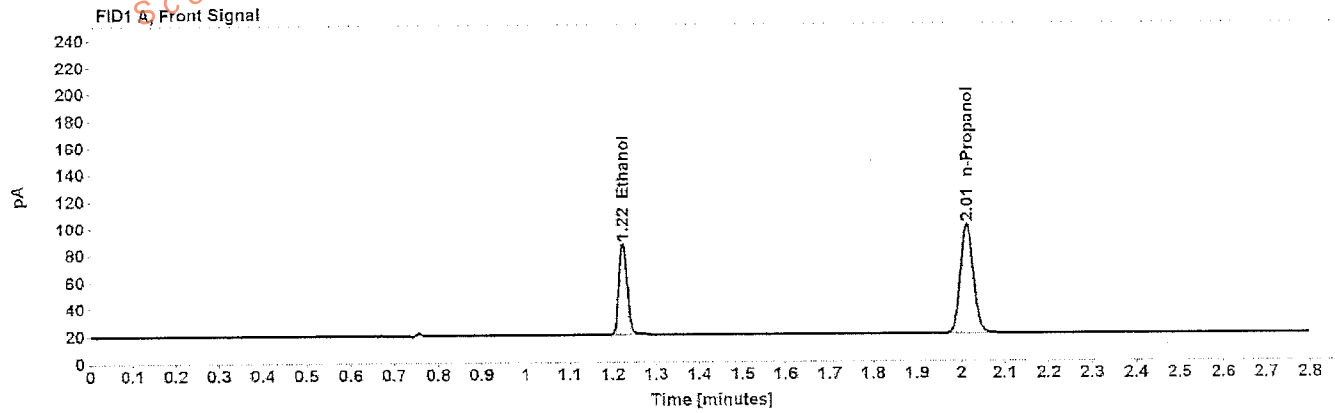


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1509	1.223	89.226
n-Propanol	-----	2.013	167.584

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

Compound	Time (min)	Peak Area
Ethanol	1.326	91.753
n-Propanol	2.344	172.488

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.20 ACQ 402101060/6	<b>Item number:</b>
<b>Injection date:</b> 8/25/2016 4:26:29 PM	<b>Vial:</b> 42
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 25Aug16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem3211\Data\25Aug16\42.D	

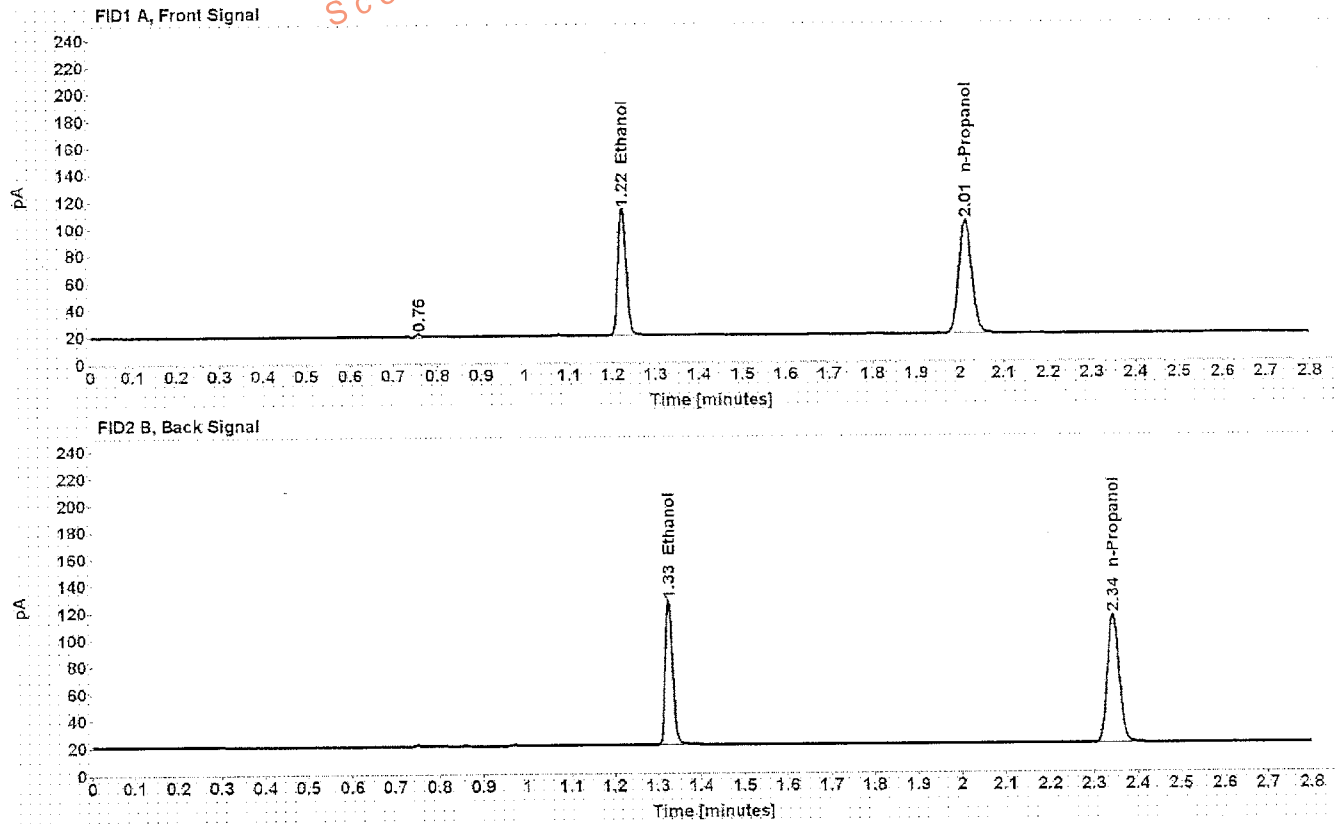


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2020	1.222	124.083
n-Propanol	-----	2.013	173.759

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

Compound	Time (min)	Peak Area
Ethanol	1.325	127.826
n-Propanol	2.343	178.824

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.080 Lipomed 14112011-A	Item number:
Injection date: 8/25/2016 5:10:59 PM	Vial: 53
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\1\Data\25Aug16\53.D	

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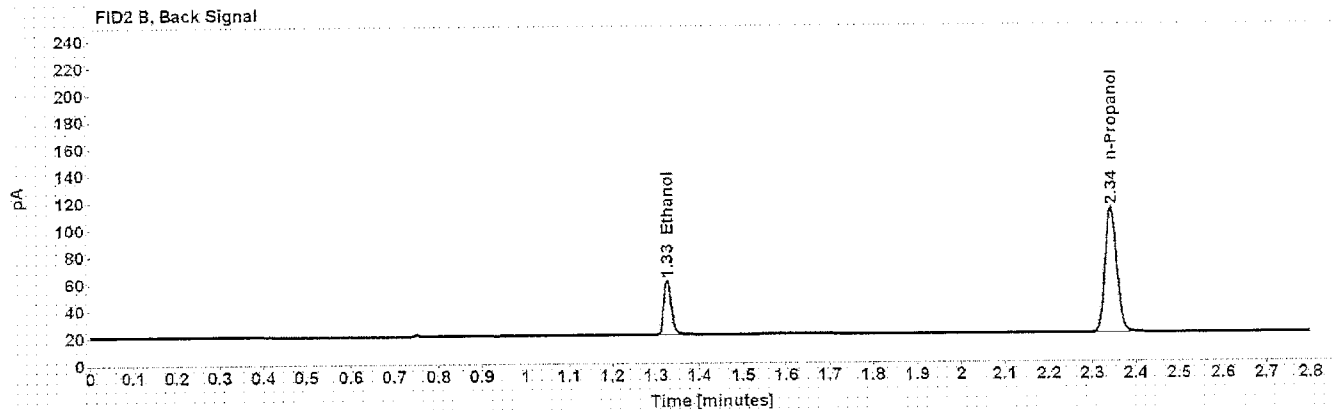
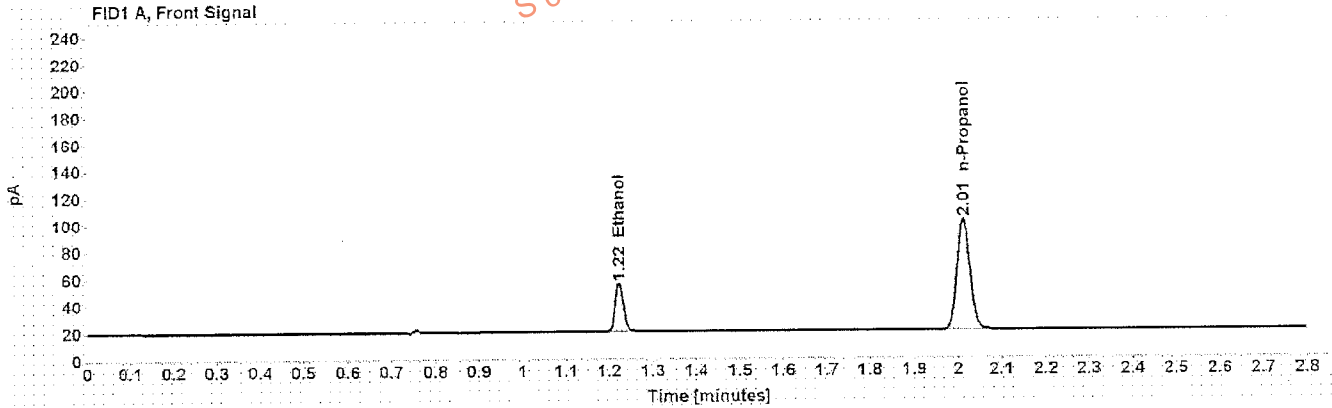


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0797	1.223	47.455
n-Propanol	-----	2.013	169.699

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

Compound	Time (min)	Peak Area
Ethanol	1.326	48.558
n-Propanol	2.343	174.572

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C	Item number:
Injection date: 8/25/2016 5:23:13 PM	Vial: 56
Method: ethanol quantM	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>RL</i>
Data file: C:\Chem32\1\Data\25Aug16\56.D	

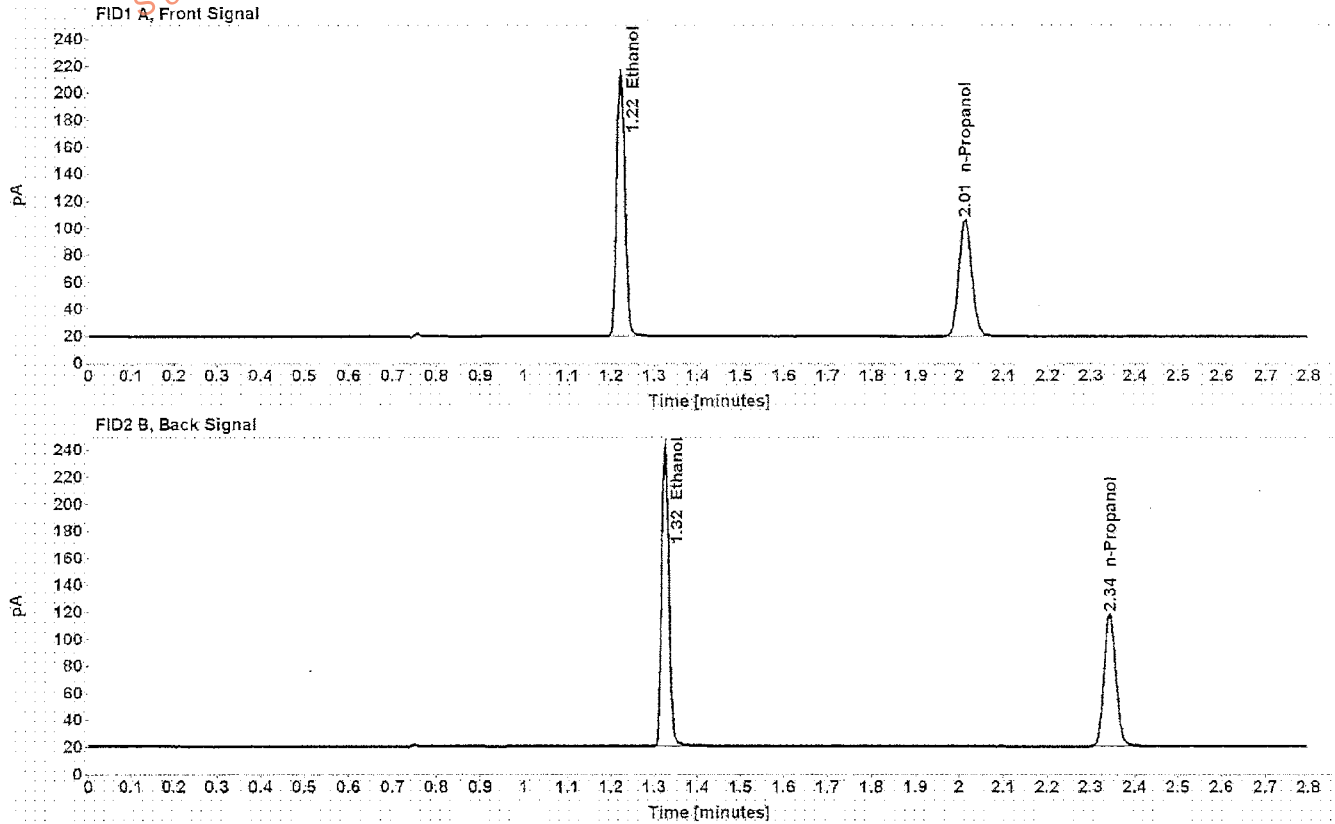


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4035	1.222	256.768
n-Propanol	-----	2.013	179.563

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

Compound	Time (min)	Peak Area
Ethanol	1.325	265.068
n-Propanol	2.343	184.804



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B	Item number:
Injection date: 8/25/2016 5:27:13 PM	Vial: 57
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\25Aug16\57.D	

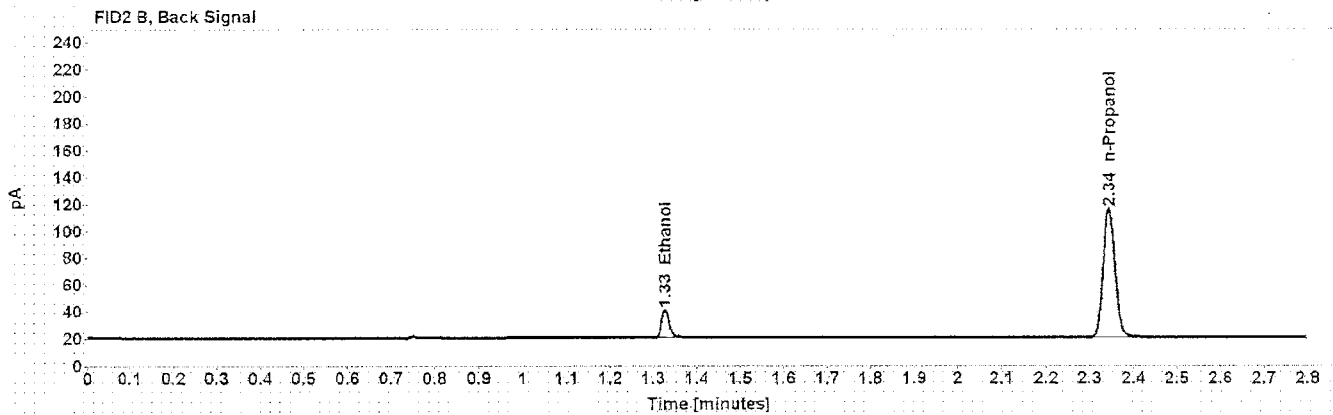
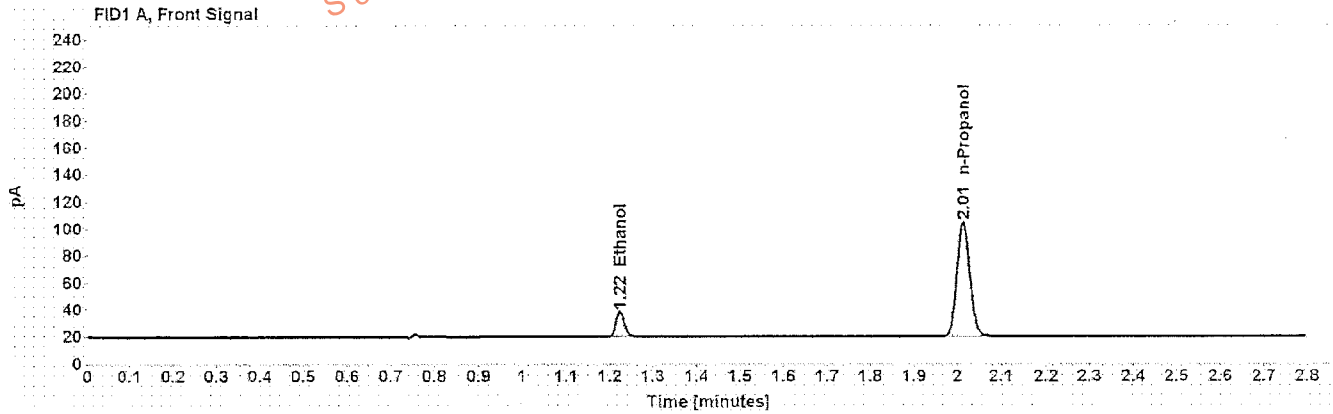


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0403	1.224	24.511
n-Propanol	-----	2.013	175.480

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

Compound	Time (min)	Peak Area
Ethanol	1.327	25.033
n-Propanol	2.343	180.484

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6	Item number:
Injection date: 8/25/2016 5:31:14 PM	Vial: 58
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\25Aug16\58.D	

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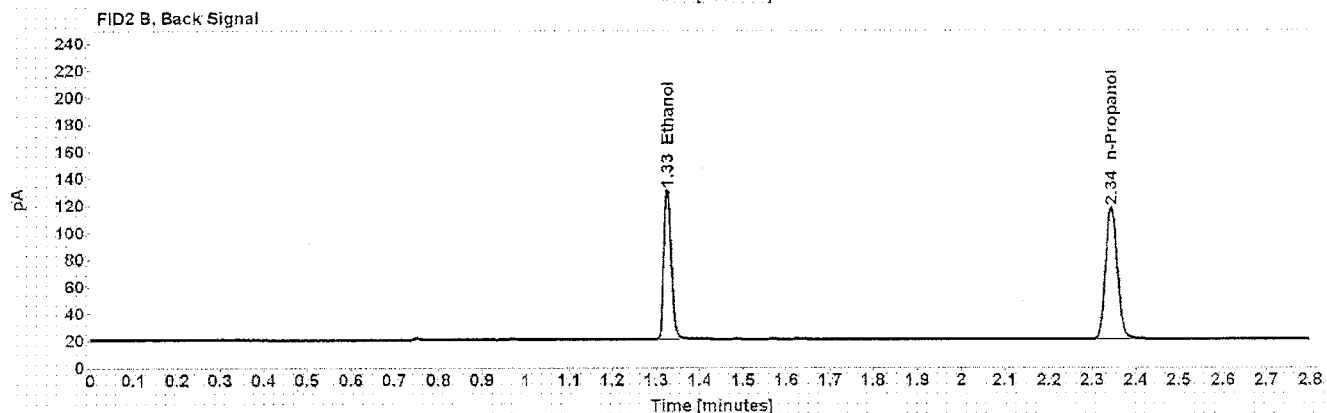
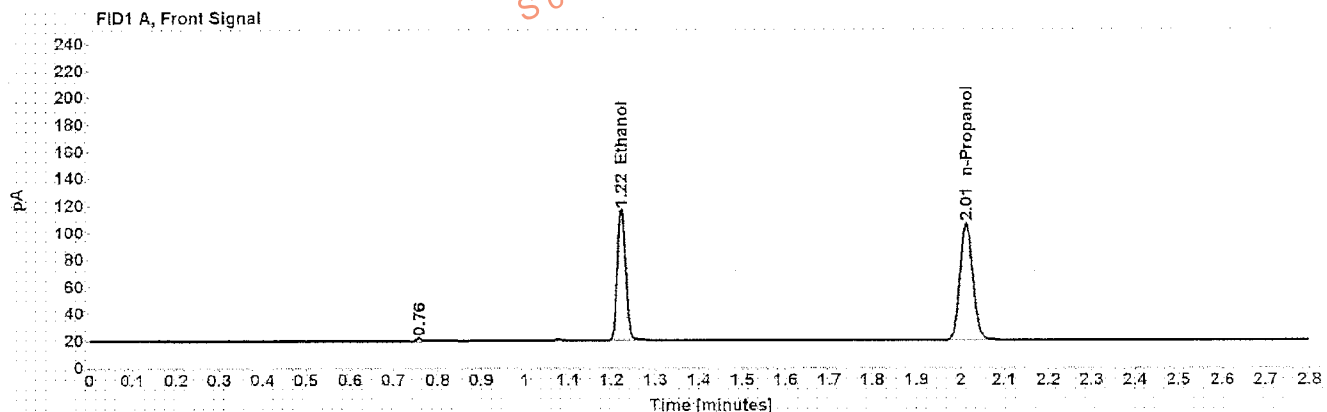


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2038	1.223	128.957
n-Propanol	-----	2.013	178.989

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

Compound	Time (min)	Peak Area
Ethanol	1.326	132.626
n-Propanol	2.344	184.312

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215	Item number:
Injection date: 8/25/2016 5:35:13 PM	Vial: 59
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\25Aug16\59.D	

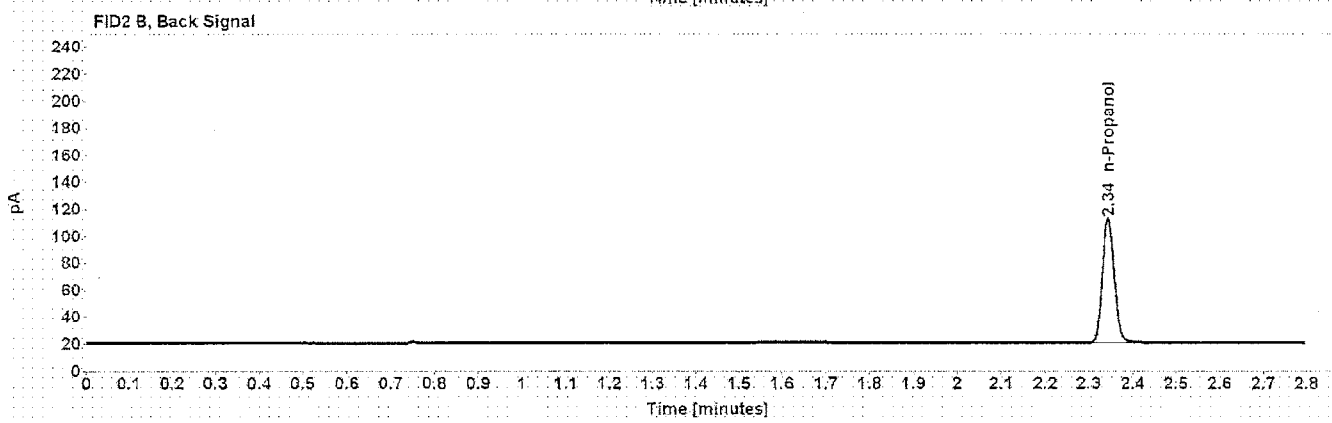
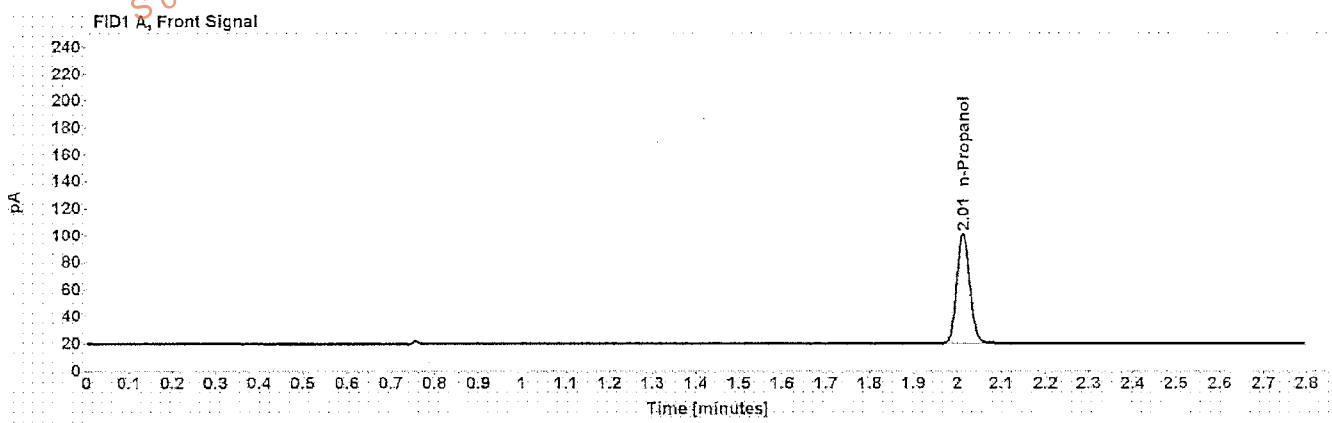


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	169.391

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	173.956

# Sequence Summary

Sequence name: 25Aug16 Instrument: US14173023 CN4160045 Analyst: Langan *AL*

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	L16 [REDACTED]	Sample	1077374	ethanol quant.M
11	L16 [REDACTED]	Sample	1077374	ethanol quant.M
12	L16 [REDACTED]	Sample	1086549	ethanol quant.M
13	L16 [REDACTED]	Sample	1086549	ethanol quant.M
14	L16 [REDACTED]	Sample	169-01A	ethanol quant.M
15	L16 [REDACTED]	Sample	169-01A	ethanol quant.M
16	L16 [REDACTED]	Sample	135-01A	ethanol quant.M
17	L16 [REDACTED]	Sample	135-01A	ethanol quant.M
18	L16 [REDACTED]	Sample	318-01A	ethanol quant.M
19	L16 [REDACTED]	Sample	318-01A	ethanol quant.M
20	0.080 Lipomed 14112011-A	Control		ethanol quant.M
21	L16 [REDACTED]	Sample	176-01A	ethanol quant.M
22	L16 [REDACTED]	Sample	176-01A	ethanol quant.M
23	L16 [REDACTED]	Sample	1108079	ethanol quant.M
24	L16 [REDACTED]	Sample	1108079	ethanol quant.M
25	L16 [REDACTED]	Sample	1108861	ethanol quant.M
26	L16 [REDACTED]	Sample	1108861	ethanol quant.M
27	L16 [REDACTED]	Sample	1080966	ethanol quant.M
28	L16 [REDACTED]	Sample	1080966	ethanol quant.M
29	L16 [REDACTED]	Sample	1102725	ethanol quant.M
30	L16 [REDACTED]	Sample	1102725	ethanol quant.M
31	0.150 Lipomed 11012012-C	Control		ethanol quant.M
32	L16 [REDACTED]	Sample	1107541	ethanol quant.M
33	L16 [REDACTED]	Sample	1107541	ethanol quant.M
34	L16 [REDACTED]	Sample	1065648	ethanol quant.M
35	L16 [REDACTED]	Sample	1065648	ethanol quant.M
36	L16 [REDACTED]	Sample	1107468	ethanol quant.M
37	L16 [REDACTED]	Sample	1107468	ethanol quant.M
38	L16 [REDACTED]	Sample	1107173	ethanol quant.M
39	L16 [REDACTED]	Sample	1107173	ethanol quant.M
40	L16 [REDACTED]	Sample	1072751	ethanol quant.M
41	L16 [REDACTED]	Sample	1072751	ethanol quant.M
42	0.20 ACQ 402101060/6	Control		ethanol quant.M
43	L16 [REDACTED]	Sample	1108800	ethanol quant.M
44	L16 [REDACTED]	Sample	1108800	ethanol quant.M
45	L16 [REDACTED]	Sample	321-01A	ethanol quant.M
46	L16 [REDACTED]	Sample	321-01A	ethanol quant.M
47	L16 [REDACTED]	Sample	1051668	ethanol quant.M

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# Sequence Summary

48	L16	[REDACTED]	Sample	1051668	ethanol quant.M
49	L16	[REDACTED]	Sample	109378	ethanol quant.M
50	L16	[REDACTED]	Sample	1109378	ethanol quant.M
51	L16	[REDACTED]	Sample	1103766	ethanol quant.M
52	L16	[REDACTED]	Sample	1103766	ethanol quant.M
53	0.080 Lipomed 14112011-A		Control		ethanol quant.M
54	L16	[REDACTED]	Sample	1098685	ethanol quant.M
55	L16	[REDACTED]	Sample	1098685	ethanol quant.M
56	0.40 Lipomed 05012012-C		Control		ethanol quant.M
57	0.04 Lipomed 30112011-B		Control		ethanol quant.M
58	0.20 ACQ 402101060/6		Control		ethanol quant.M
59	blank 110215		Control		ethanol quant.M

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 Scottsdale City Prosecutor

**SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY**  
**SEQUENCE SUMMARY OF CASES**

SEQUENCE NAME: 25Aug16

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1642	0.1648	0.16450	0.18	0.00030
12 13	0.1935	0.1935	0.19350	0.00	0.00000
14 15	0.1604	0.1613	0.16085	0.28	0.00045
16 17	0.2181	0.2176	0.21785	0.11	0.00025
18 19	0.2270	0.2281	0.22755	0.24	0.00055
21 22	0.2141	0.2132	0.21365	0.21	0.00045
23 24	0.0900	0.0903	0.09015	0.17	0.00015
25 26	0.0000	0.0000	0.00000	0.00	0.00000
27 28	0.1106	0.1118	0.11120	0.54	0.00060
29 30	0.1418	0.1410	0.14140	0.28	0.00040
32 33	0.2175	0.2204	0.21895	0.66	0.00145
34 35	0.1133	0.1124	0.11285	0.40	0.00045
36 37	0.2517	0.2545	0.25310	0.55	0.00140
38 39	0.0953	0.0959	0.09560	0.31	0.00030
40 41	0.1338	0.1339	0.13385	0.04	0.00005
43 44	0.1063	0.1064	0.10635	0.05	0.00005
45 46	0.1887	0.1885	0.18860	0.05	0.00010
47 48	0.1039	0.1023	0.10310	0.78	0.00080
49 50	0.1971	0.1962	0.19665	0.23	0.00045
51 52	0.0000	0.0000	0.00000	0.00	0.00000
54 55	0.0235	0.0235	0.02350	0.00	0.00000

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

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1077374
Injection date: 8/25/2016 2:17:13 PM	Vial: 10
Method: ethanol quant M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem3211\Data\25Aug16\10.D	

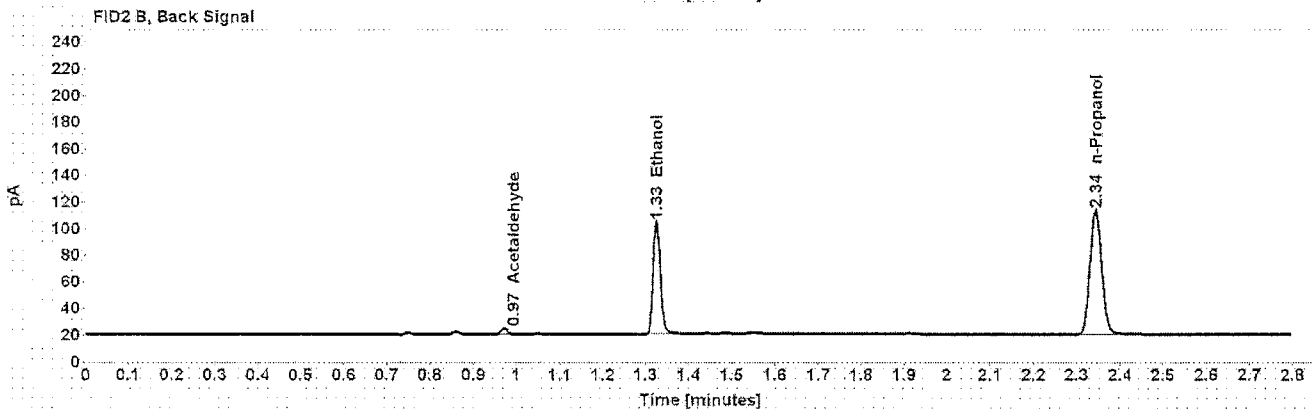
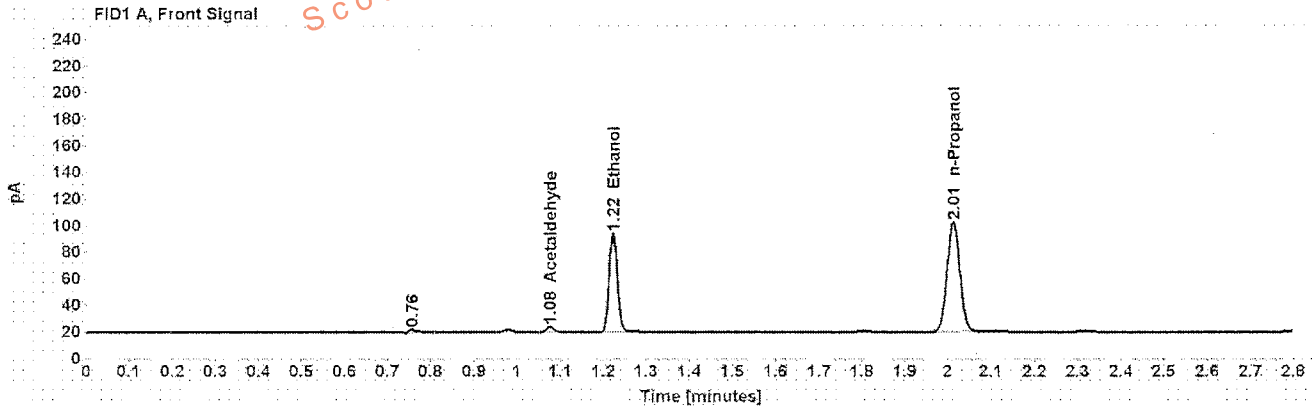


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.076	4.199
>Ethanol	0.1642	1.223	98.679
n-Propanol	-----	2.013	170.235

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.482
Ethanol	1.325	101.301
n-Propanol	2.343	175.650

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1077374
Injection date: 8/25/2016 2:21:13 PM	Vial: 11
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\25Aug16\11.D	

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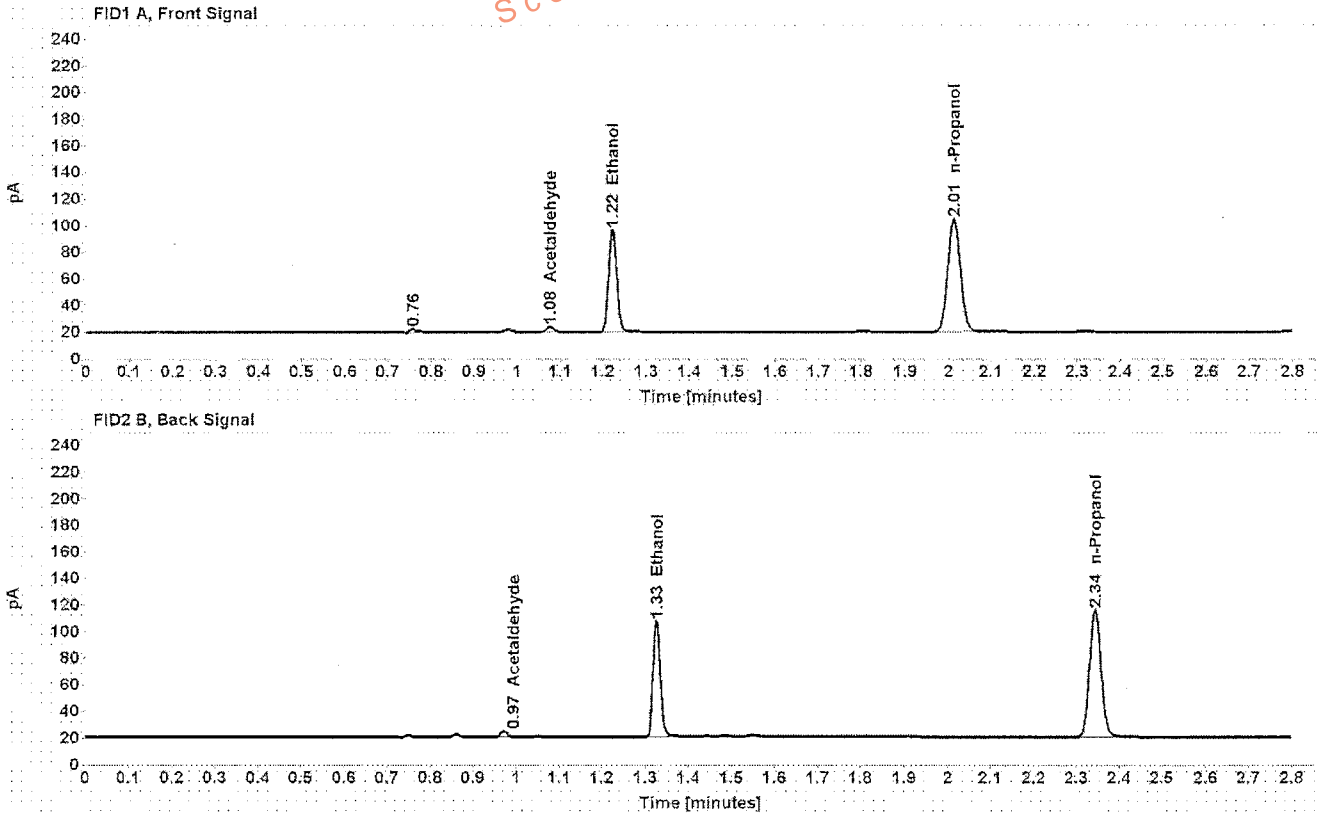


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.307
>Ethanol	0.1648	1.223	101.489
n-Propanol	-----	2.013	174.365

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.571
Ethanol	1.326	104.355
n-Propanol	2.344	179.794



## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1086549
Injection date: 8/25/2016 2:25:13 PM	Vial: 12
Method: ethanol quant M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem3211\Data\25Aug16\12.D	

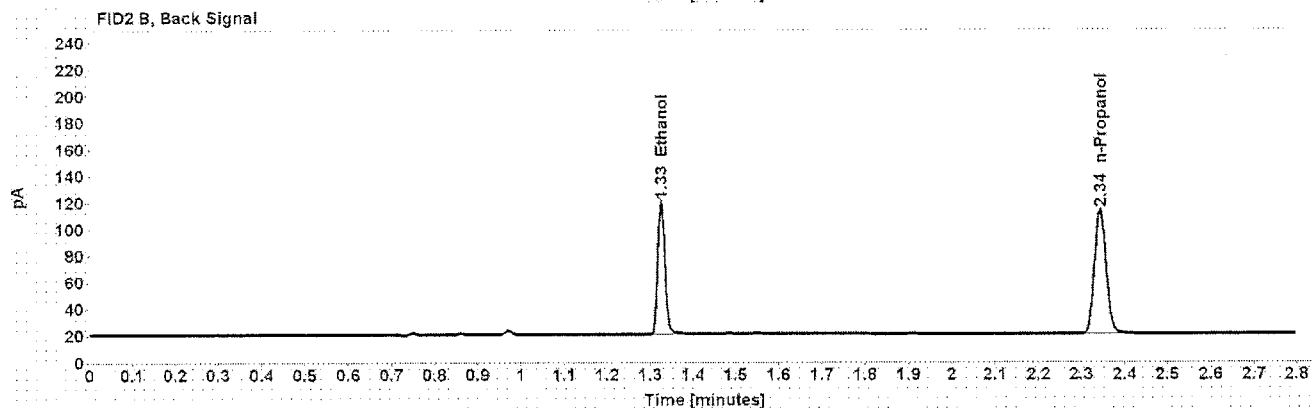
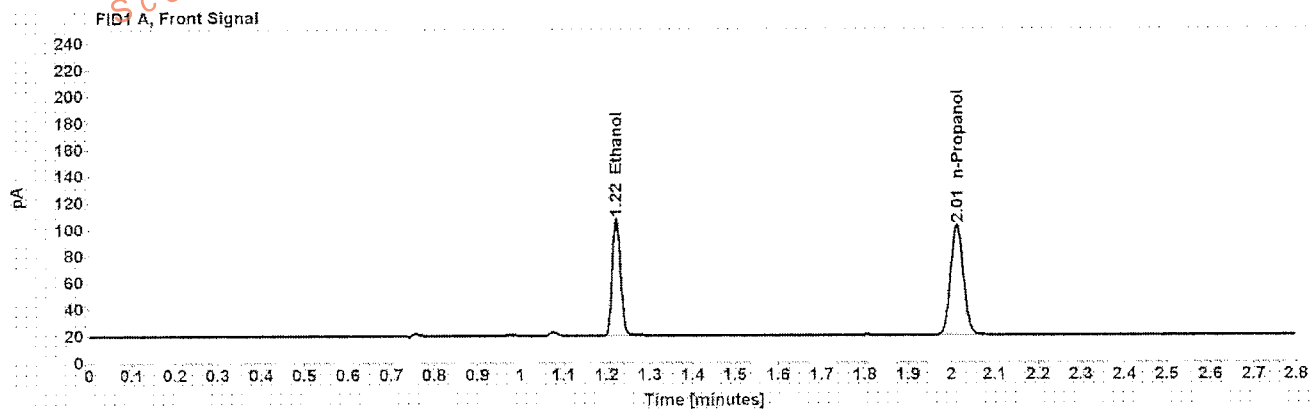


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1935	1.222	116.407
n-Propanol	-----	2.013	170.207

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

Compound	Time (min)	Peak Area
Ethanol	1.325	119.805
n-Propanol	2.343	175.317

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1086549  
Injection date: 8/25/2016 2:29:28 PM Vial: 13  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023.GN14160045 Analyst: Langan  
Data file: C:\Chem32\11Data\25Aug16\13.D

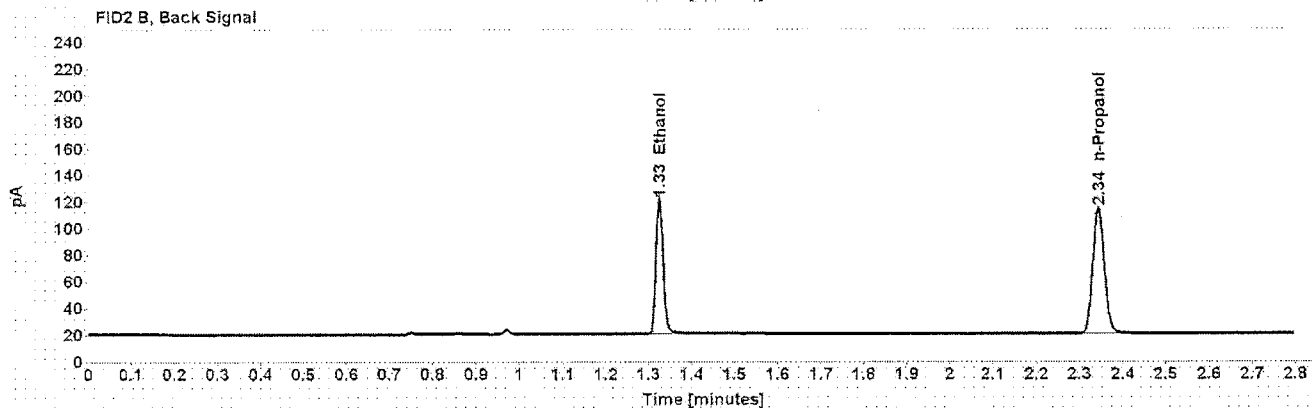
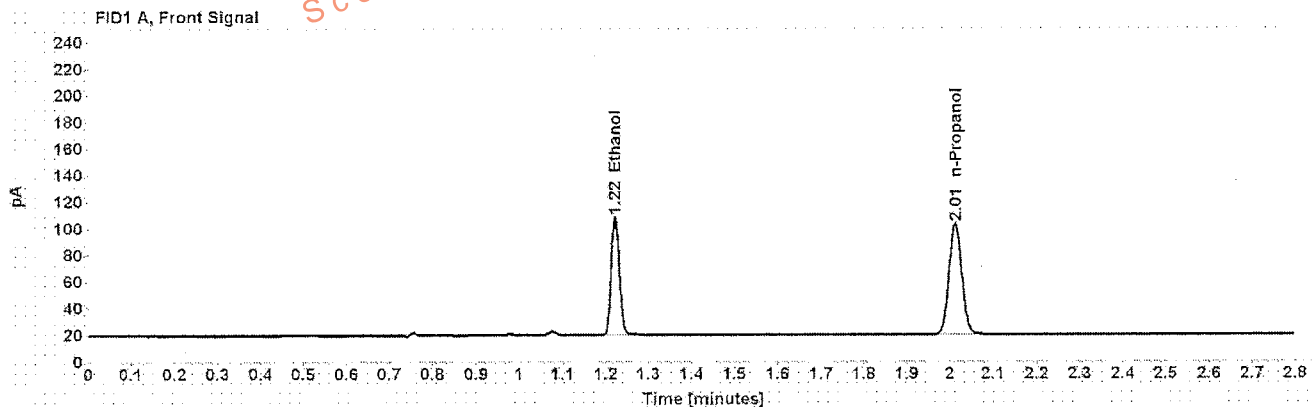


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1935	1.222	117.617
n-Propanol	-----	2.013	172.004

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

Compound	Time (min)	Peak Area
Ethanol	1.325	121.287
n-Propanol	2.343	177.132

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	169-01A
Injection date:	8/25/2016 2:33:28 PM	Vial:	14
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan <i>ML</i>
Data file:	C:\Chem3211\Data\25Aug16\14.D		

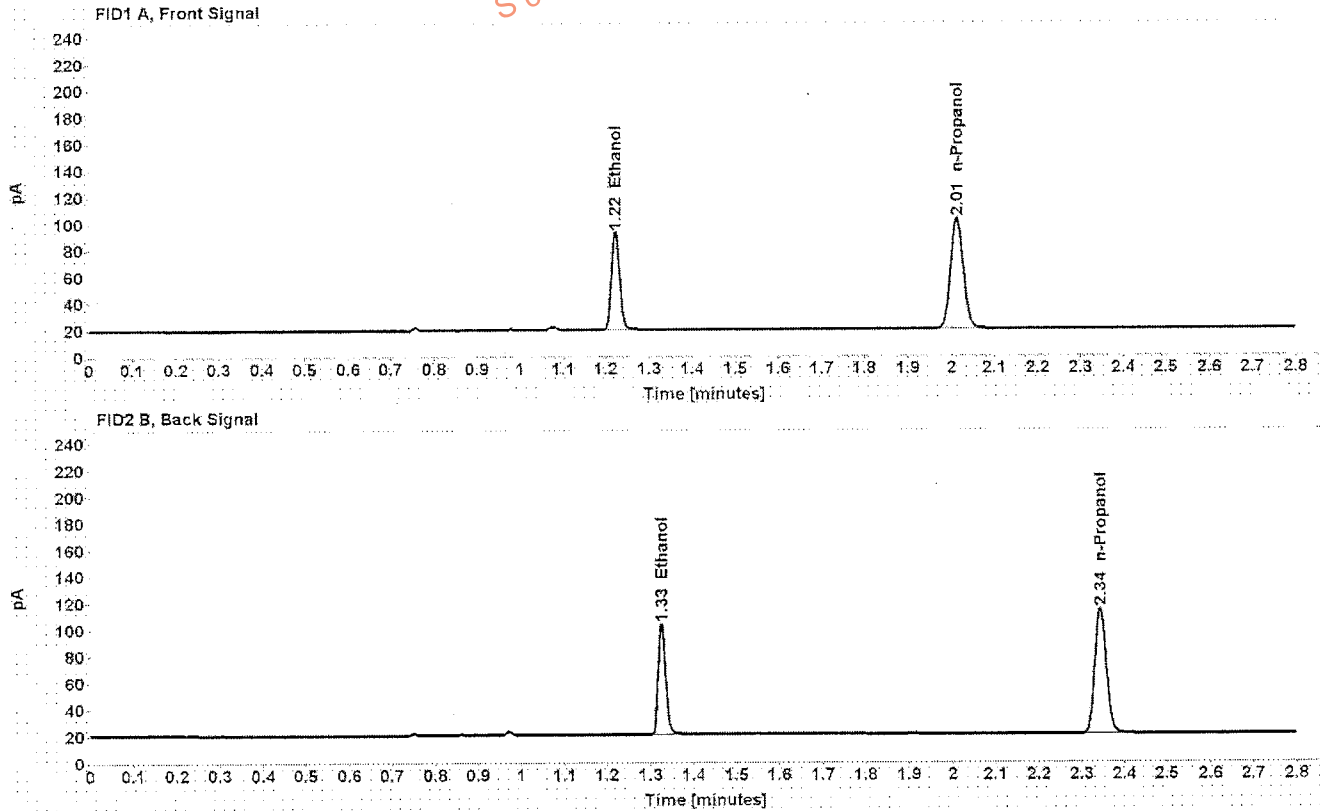


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1604	1.223	97.222
n-Propanol	-----	2.013	171.705

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

Compound	Time (min)	Peak Area
Ethanol	1.326	99.871
n-Propanol	2.344	176.840

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 169-01A  
Injection date: 8/25/2016 2:37:28 PM Vial: 15  
Method: ethanol quant M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan AL  
Data file: C:\Chem32\11Data\25Aug16\15.D

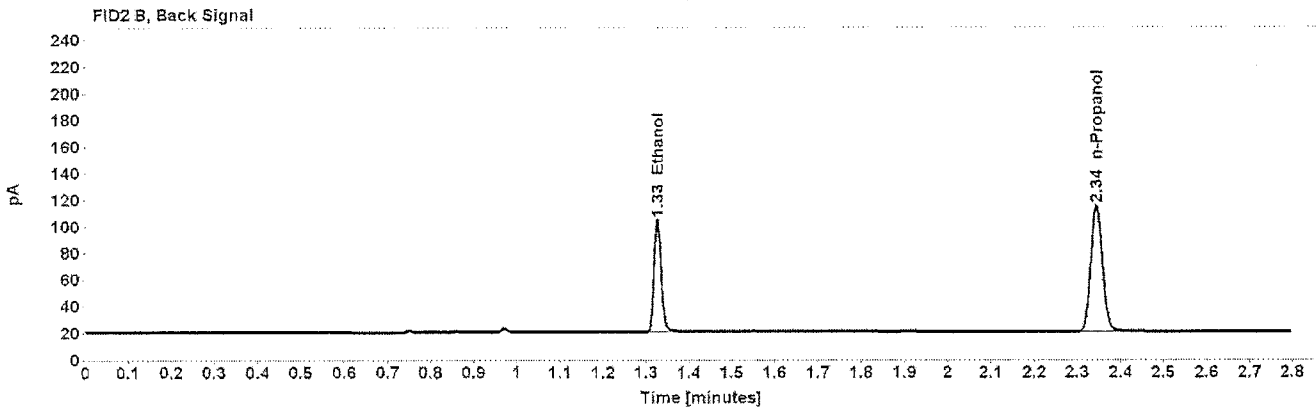
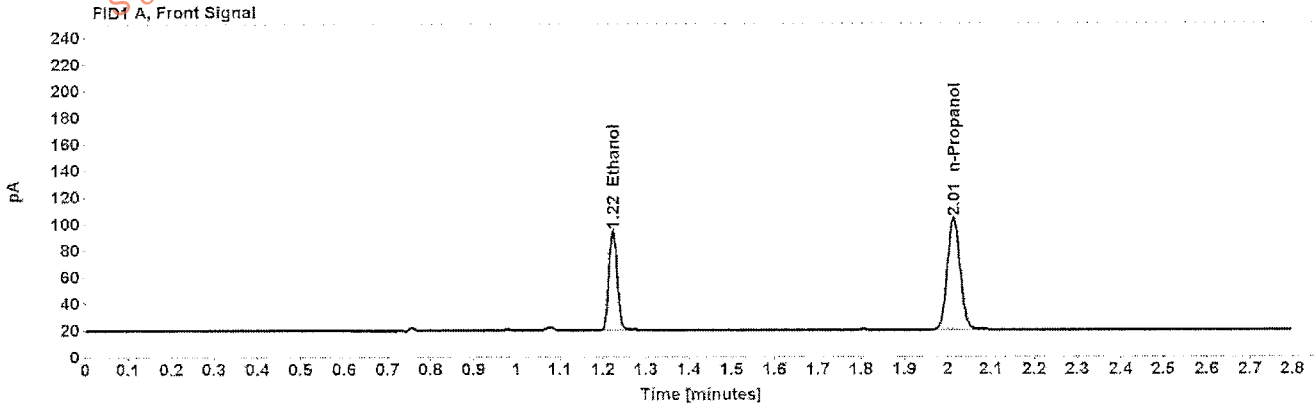


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1613	1.223	98.590
n-Propanol	-----	2.014	173.129

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

Compound	Time (min)	Peak Area
Ethanol	1.326	101.328
n-Propanol	2.344	178.455

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 135-01A
Injection date: 8/25/2016 2:41:29 PM	Vial: 16
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US1473023, CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\11Data\25Aug16\16.D	

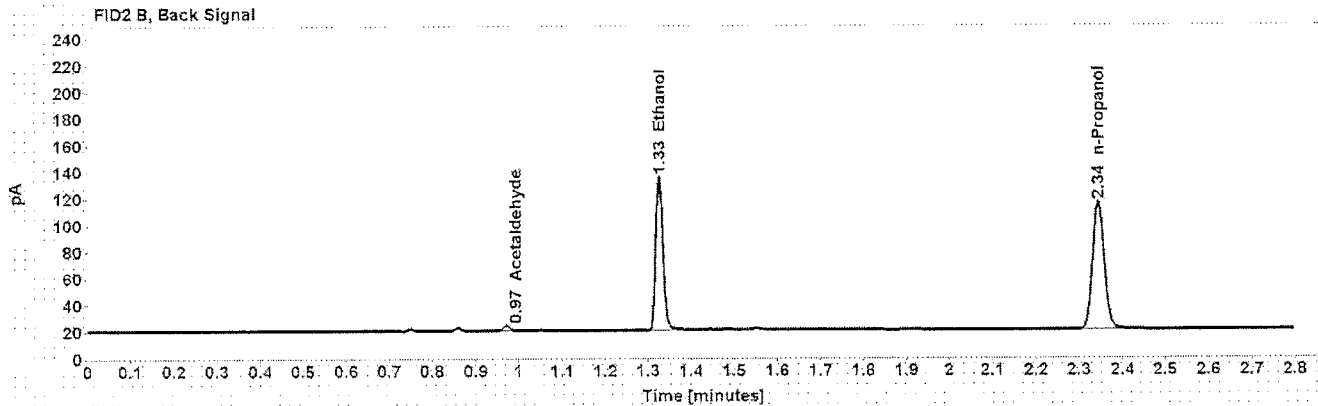
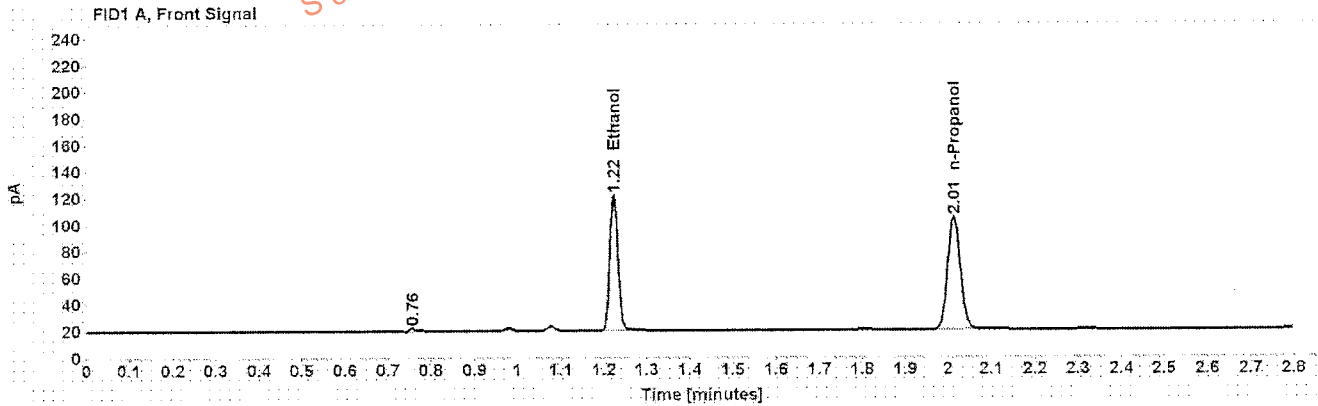


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2181	1.223	134.506
n-Propanol	-----	2.014	174.408

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.920
Ethanol	1.326	138.623
n-Propanol	2.344	179.923

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 135-01A
Injection date: 8/25/2016 2:45:28 PM	Vial: 17
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160025	Analyst: Langan <i>PL</i>
Data file: C:\Chem32\11\Data\25Aug16\17.D	

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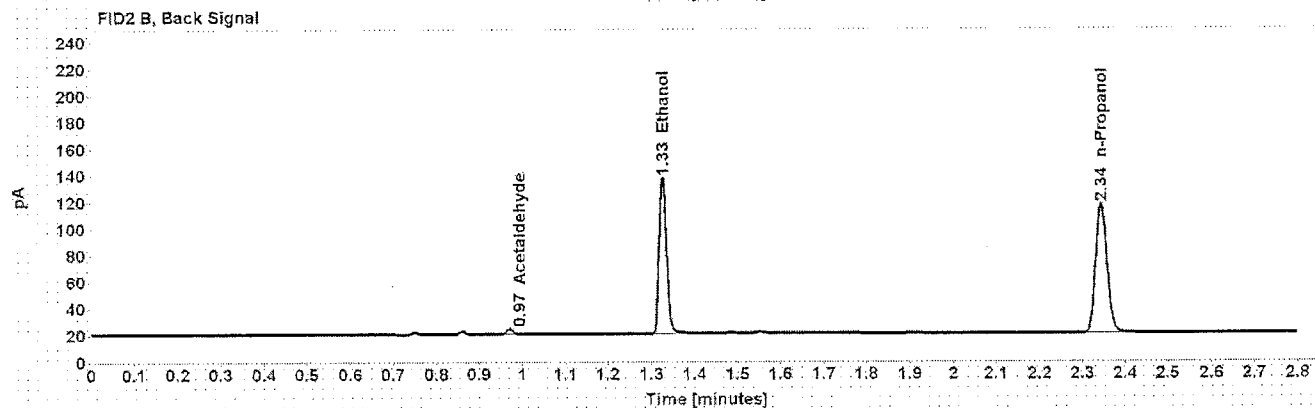
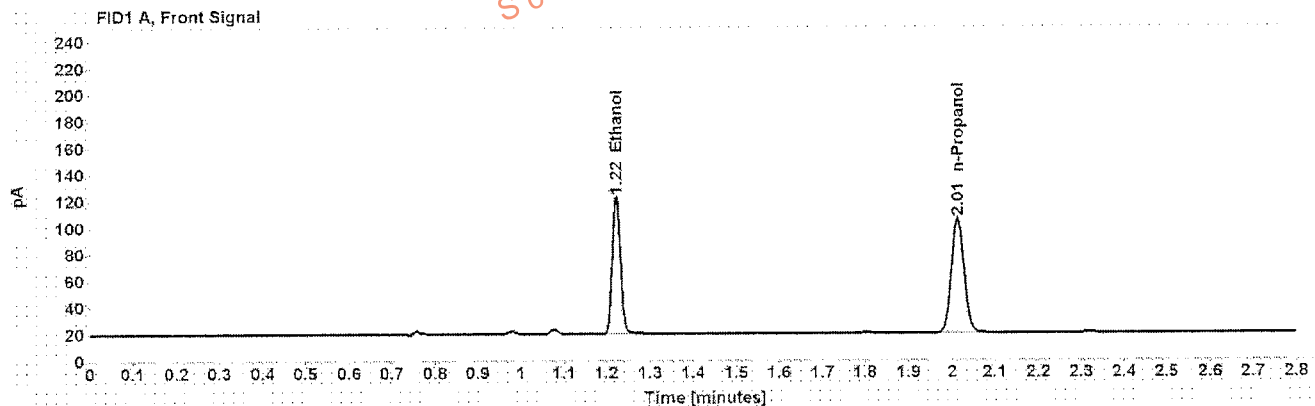


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2176	1.223	135.987
n-Propanol	-----	2.013	176.708

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	3.894
Ethanol	1.326	140.004
n-Propanol	2.344	182.499

Case: [REDACTED] User: alangan 8/26/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 318-01A
Injection date: 8/25/2016 2:49:29 PM	Vial: 18
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\1\Data\25Aug16\18.D	

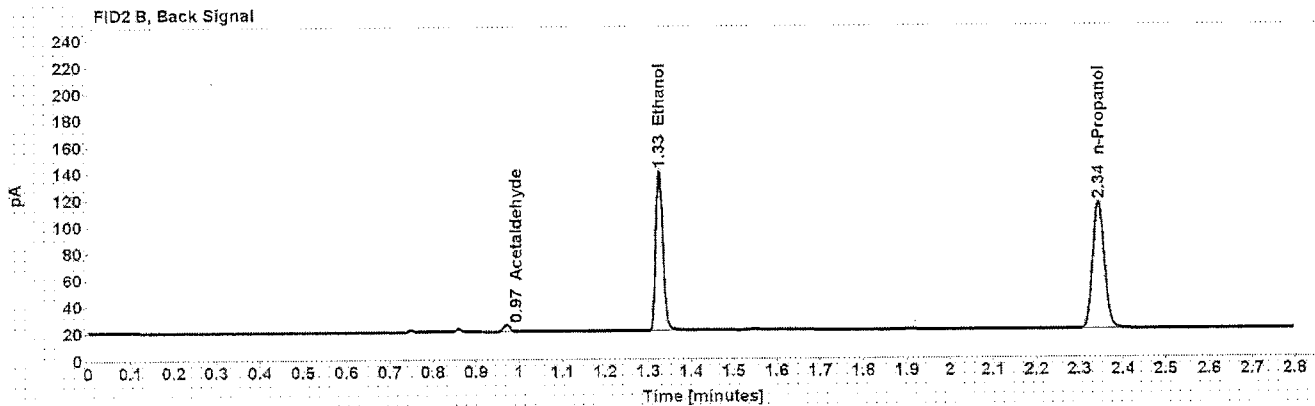
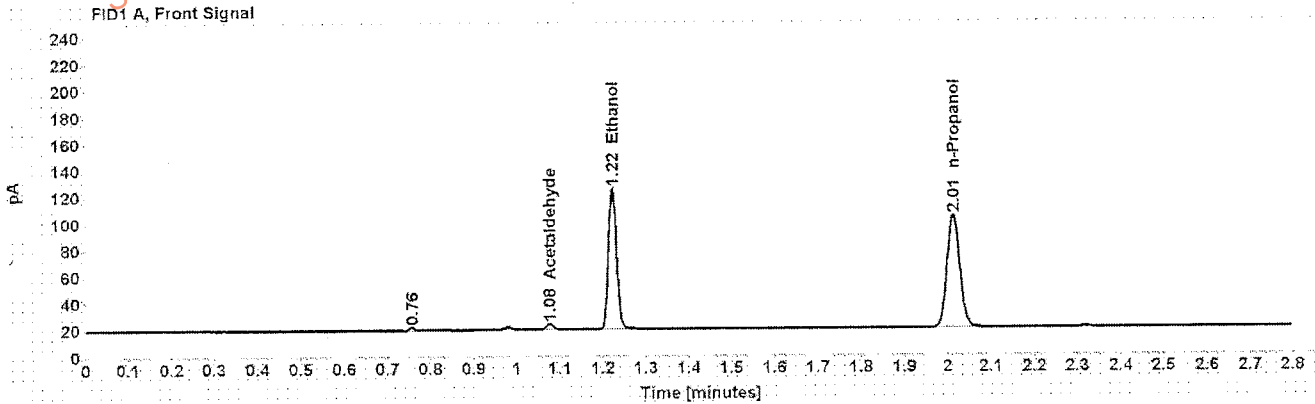


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.076	4.712
>Ethanol	0.2270	1.223	139.725
n-Propanol	-----	2.013	174.063

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.982
Ethanol	1.326	144.041
n-Propanol	2.344	179.553

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 318-01A
<b>Injection date:</b> 8/25/2016 2:53:43 PM	<b>Vial:</b> 19
<b>Method:</b> ethanol quant M	<b>Sequence:</b> 25Aug16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
<b>Data file:</b> C:\Chem3211\Data\25Aug16\19.D	

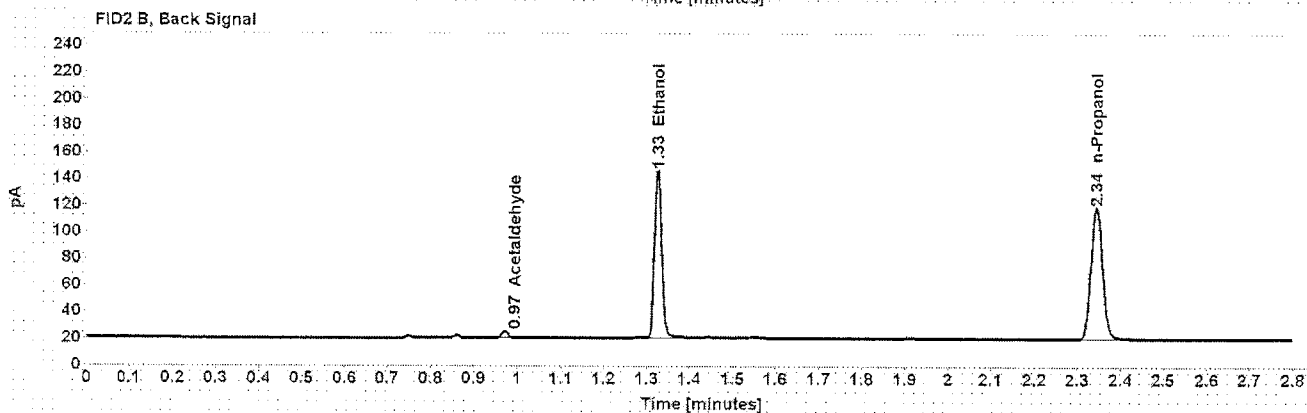
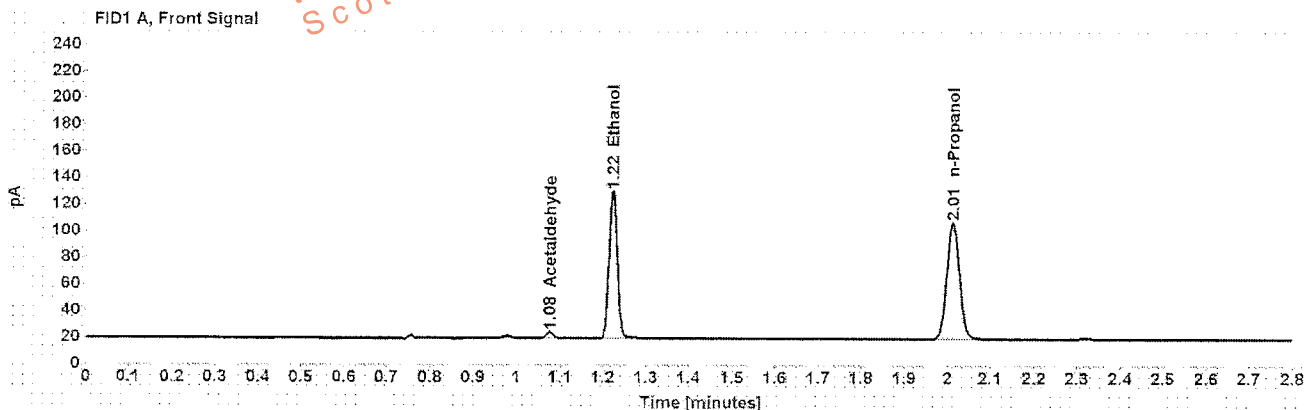


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	4.801
>Ethanol	0.2281	1.223	145.426
n-Propanol	-----	2.013	180.285

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.082
Ethanol	1.326	151.556
n-Propanol	2.344	185.963



## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 176-01A
Injection date: 8/25/2016 3:01:43 PM	Vial: 21
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>AL</i>
Data file: C:\Chem32\11\Data\25Aug16\21.D	

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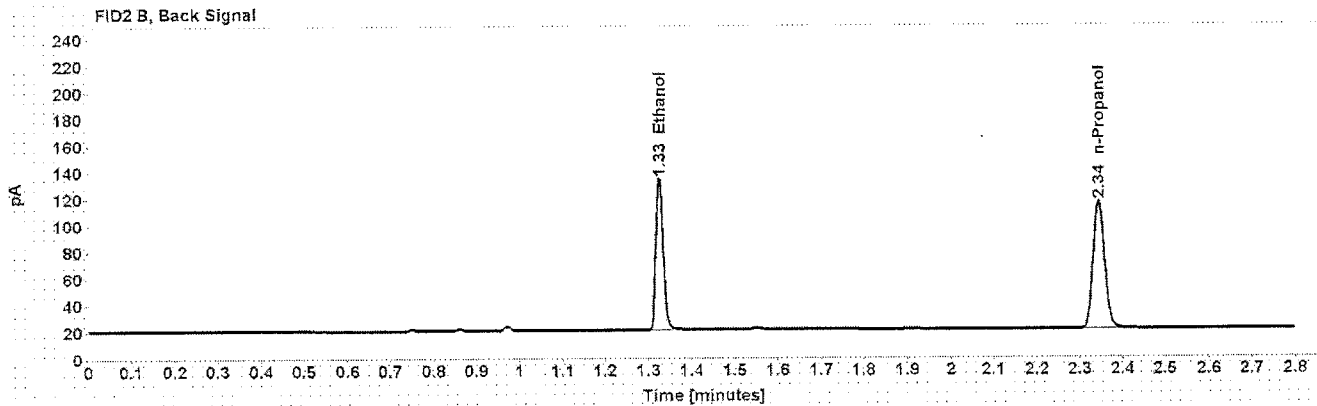
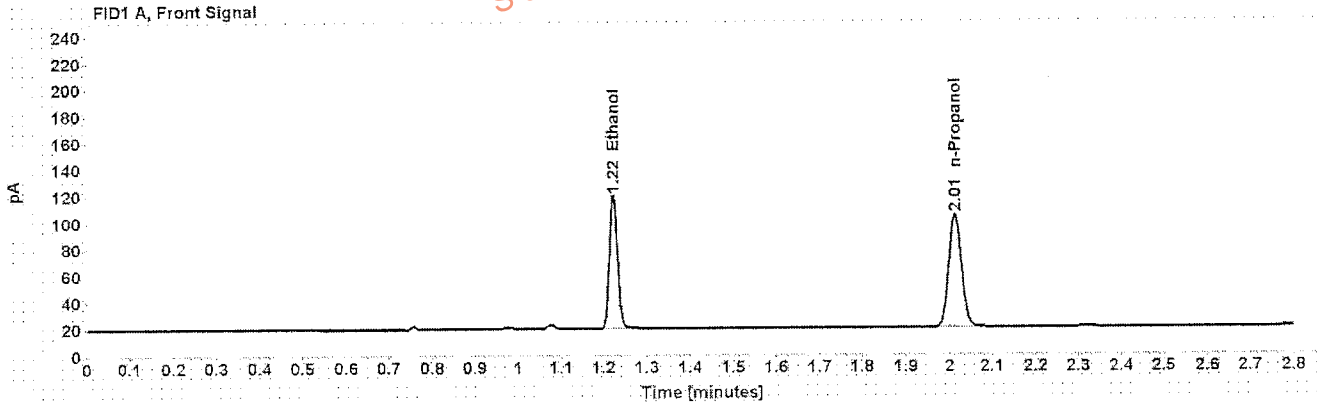


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2141	1.223	132.108
n-Propanol	-----	2.013	174.509

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

Compound	Time (min)	Peak Area
Ethanol	1.326	135.943
n-Propanol	2.344	180.054

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 176-01A  
Injection date: 8/25/2016 3:05:44 PM Vial: 22  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan AL  
Data file: C:\Chem32\11Data\25Aug16\22.D

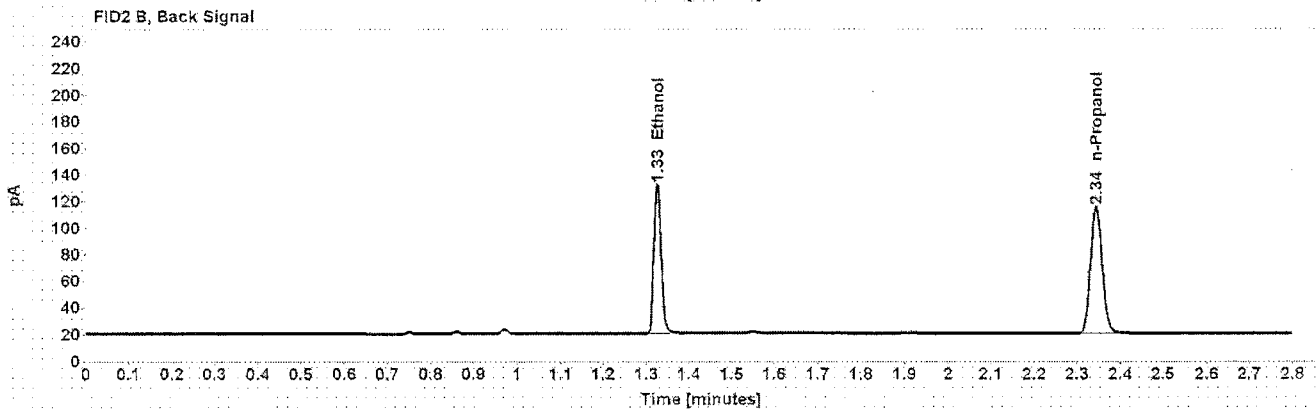
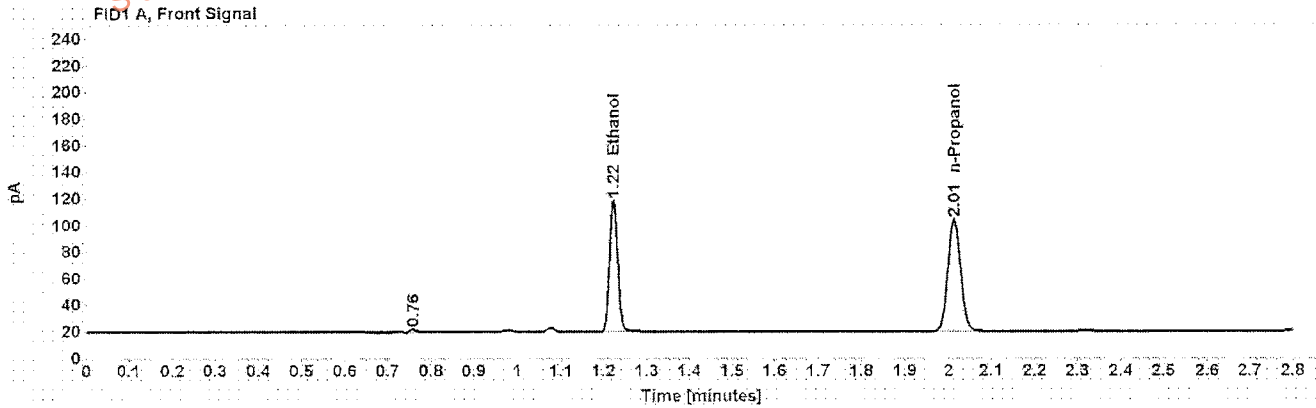


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2132	1.223	130.543
n-Propanol	-----	2.013	173.180

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

Compound	Time (min)	Peak Area
Ethanol	1.326	134.278
n-Propanol	2.344	178.587

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1108079
Injection date: 8/25/2016 3:09:43 PM	Vial: 23
Method: ethanol.quant.M	Sequence: 25Aug16
Instrument: US14173023.ON14160045	Analyst: Langan <i>[Signature]</i>
Data file: C:\Chem3211\Data\25Aug16\23.D	

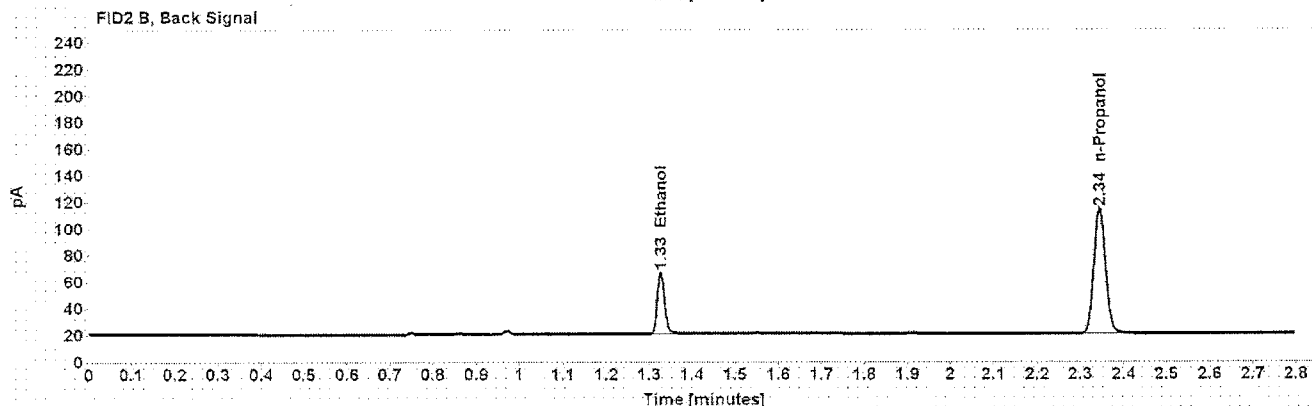
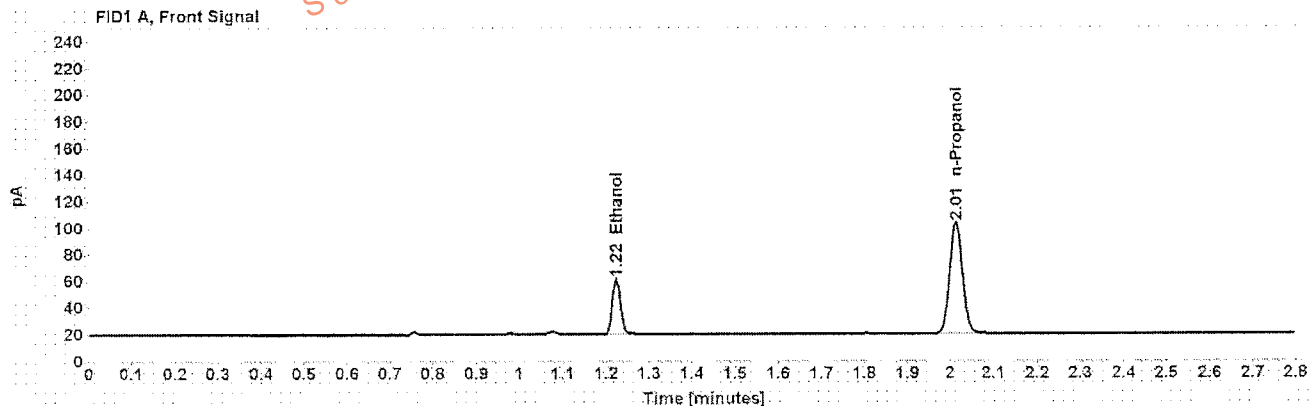


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0900	1.223	54.480
n-Propanol	-----	2.014	172.344

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

Compound	Time (min)	Peak Area
Ethanol	1.327	56.510
n-Propanol	2.344	177.499

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1108079
Injection date: 8/25/2016 3:13:44 PM	Vial: 24
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan <i>ML</i>
Data file: C:\Chem32\11\Data\25Aug16\24.D	

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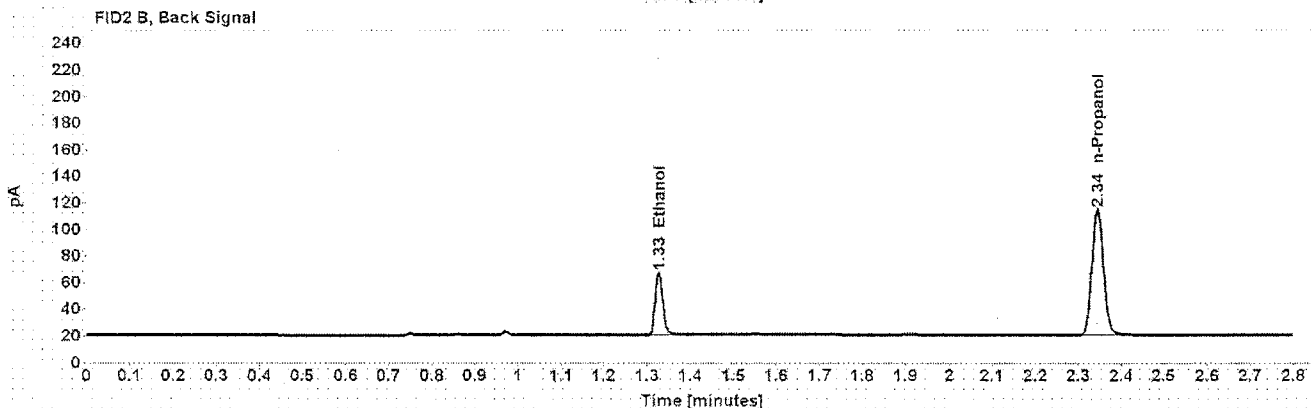
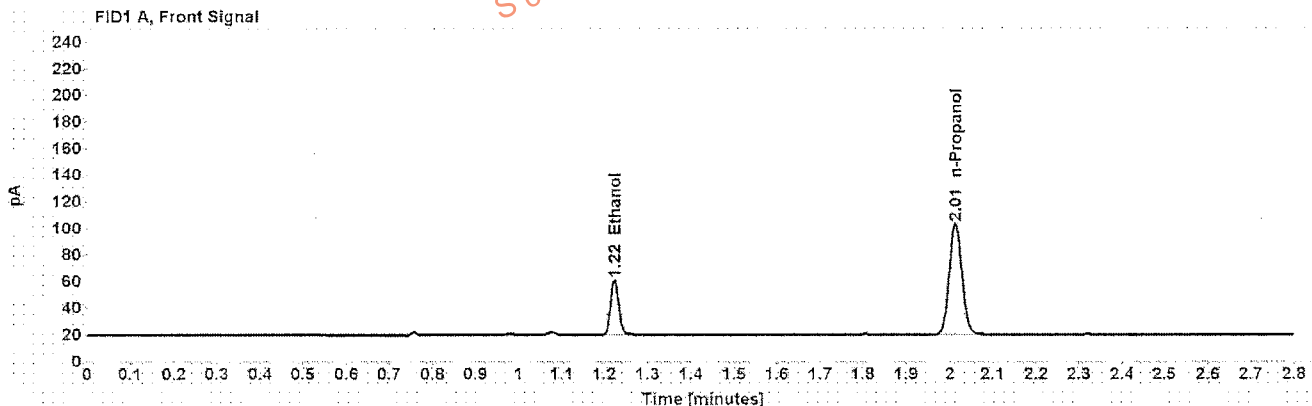


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0903	1.223	54.571
n-Propanol	-----	2.014	171.985

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

Compound	Time (min)	Peak Area
Ethanol	1.327	56.666
n-Propanol	2.344	177.253

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1108861
Injection date: 8/25/2016 3:17:58 PM	Vial: 25
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\11\Data\25Aug16\25.D	

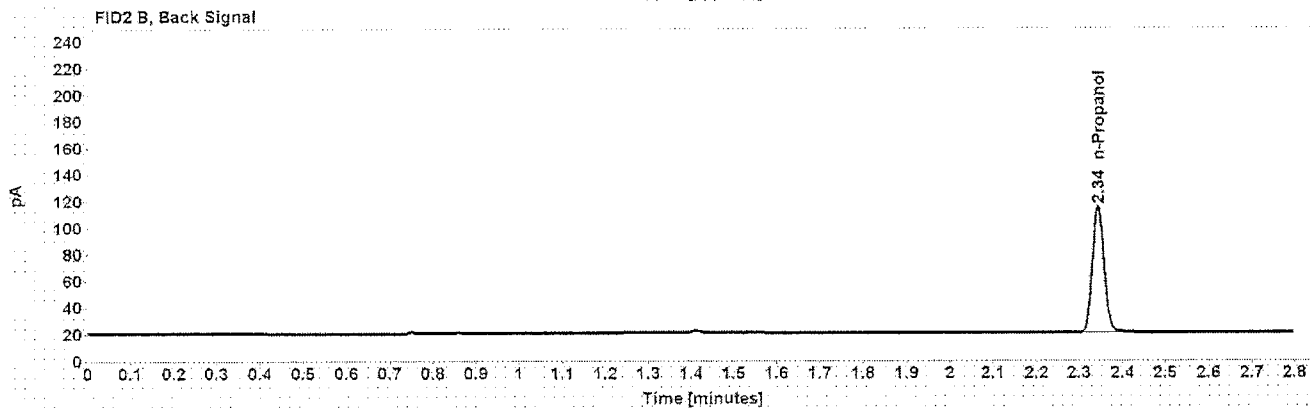
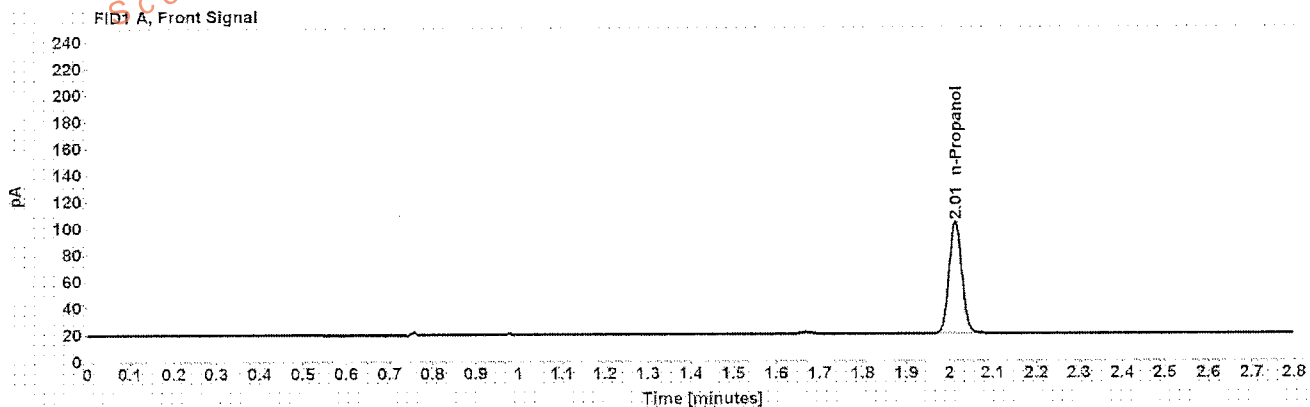


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	173.378

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

Compound	Time (min)	Peak Area
n-Propanol	2.343	178.836

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1108861
Injection date:	8/25/2016 3:21:59 PM	Vial:	26
Method:	ethanol.quant.M	Sequence:	25Aug16
Instrument:	US14173023.ON14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\25Aug16\26.D		

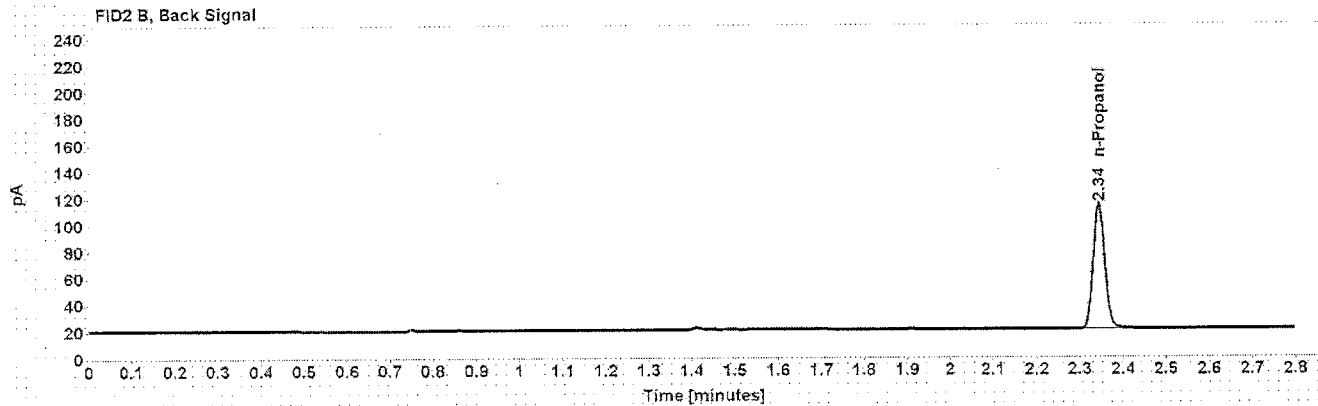
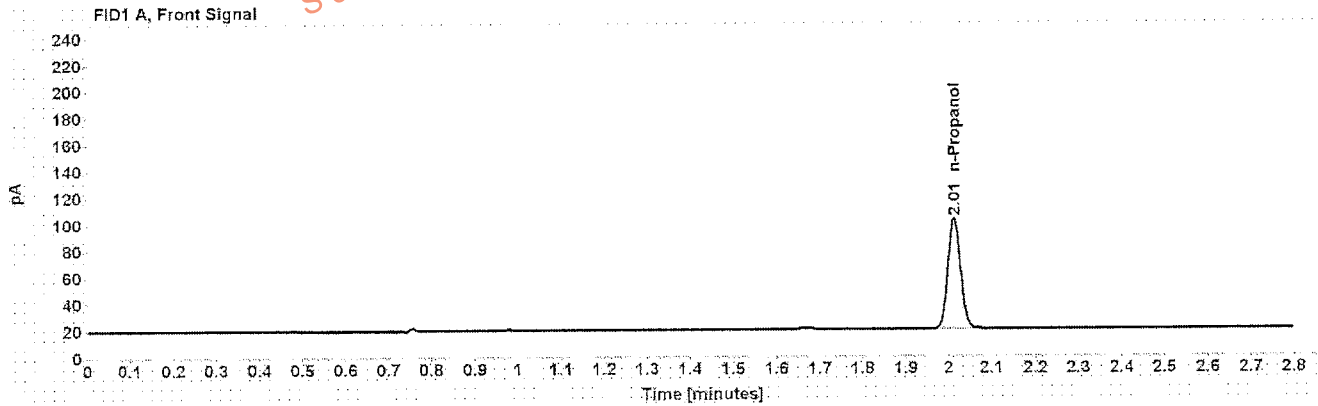


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	171.148

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	176.563

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1080966
Injection date: 8/25/2016 3:25:58 PM	Vial: 27
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem32\1\Data\25Aug16\27.D	

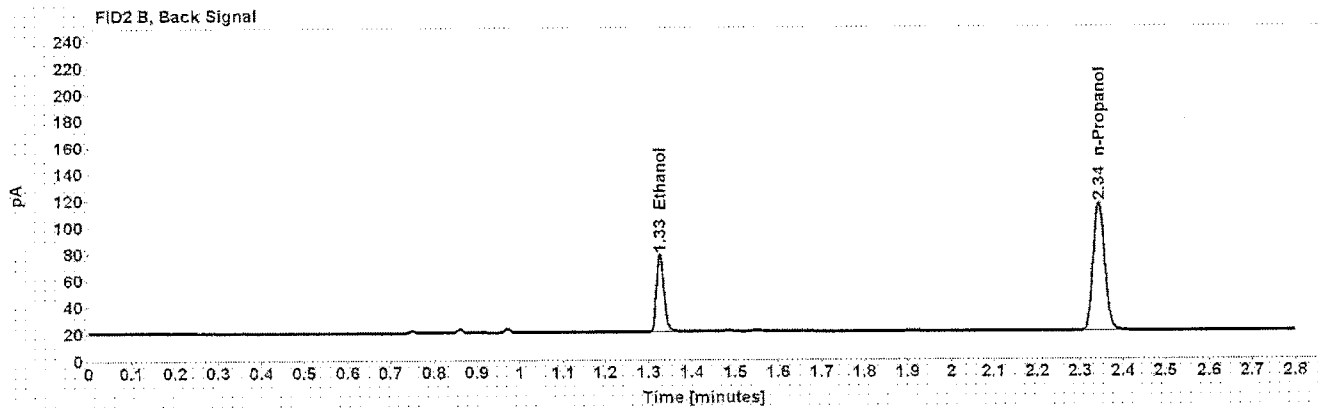
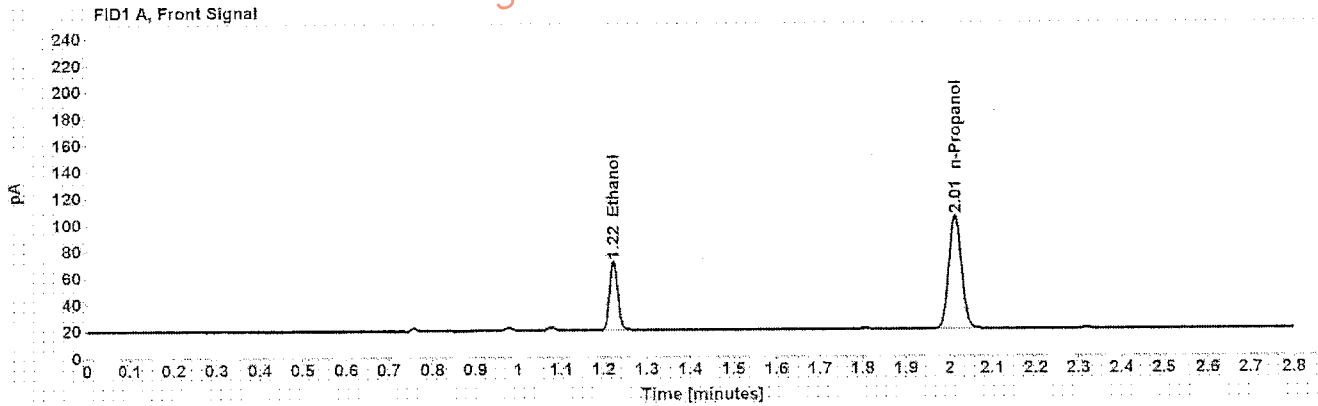


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1106	1.223	68.096
n-Propanol	-----	2.013	174.807

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

Compound	Time (min)	Peak Area
Ethanol	1.326	70.029
n-Propanol	2.344	180.512

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1080966
Injection date:	8/25/2016 3:29:58 PM	Vial:	28
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\25Aug16\28.D		

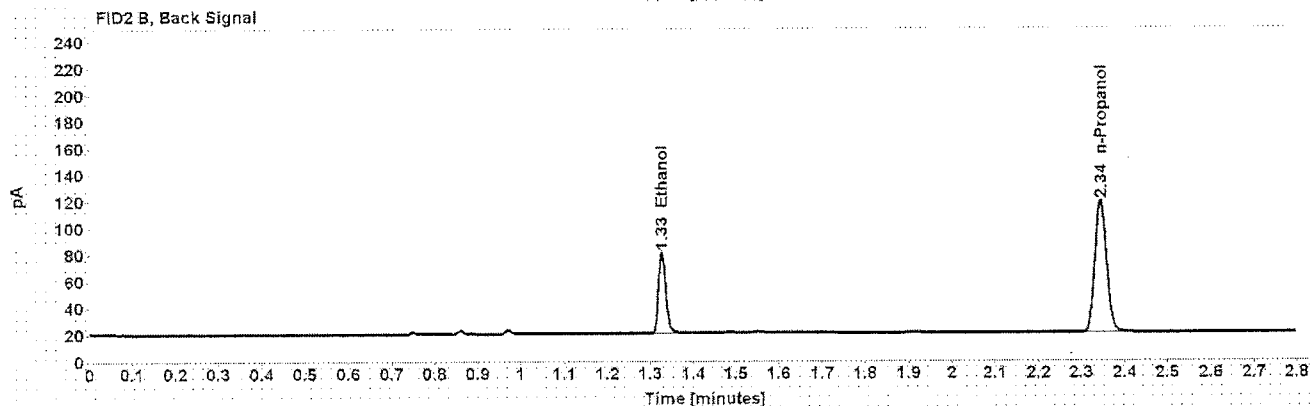
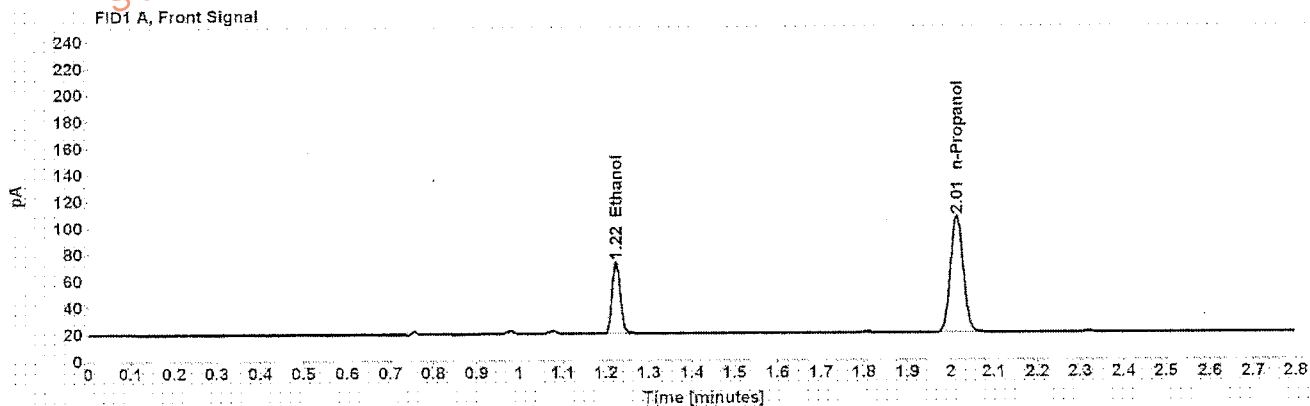


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1118	1.223	70.723
n-Propanol	-----	2.014	179.579

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

Compound	Time (min)	Peak Area
Ethanol	1.327	73.358
n-Propanol	2.344	185.466



## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1102725
Injection date:	8/25/2016 3:33:58 PM	Vial:	29
Method:	ethanol quant M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\25Aug16\29.D		

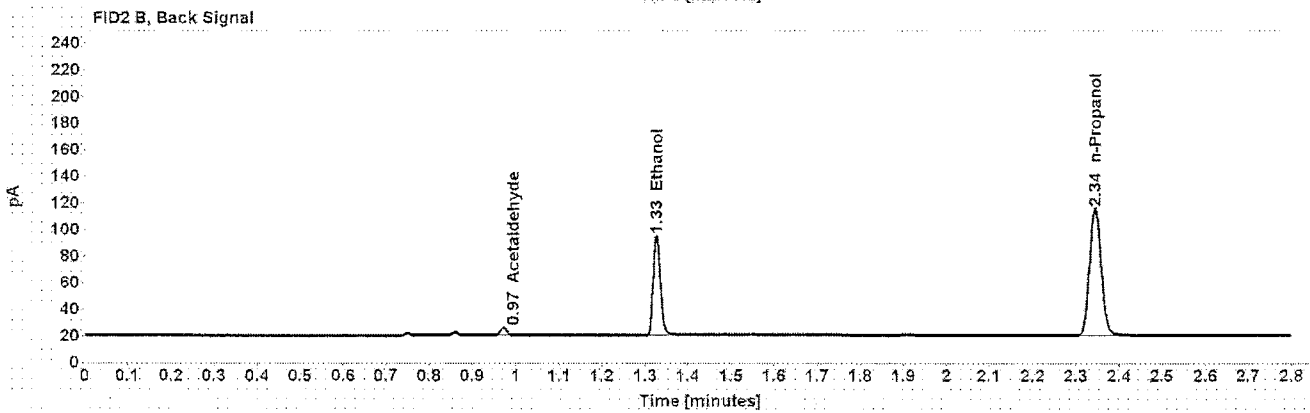
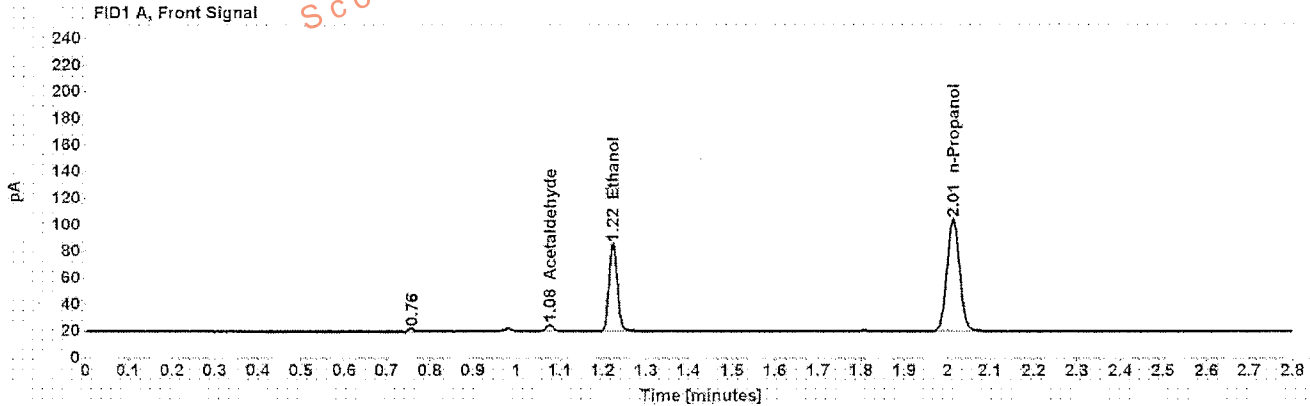


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	5.542
>Ethanol	0.1418	1.223	86.989
n-Propanol	-----	2.014	173.878

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.804
Ethanol	1.326	89.515
n-Propanol	2.344	179.114

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1102725
Injection date:	8/25/2016 3:37:58 PM	Vial:	30
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\25Aug16\30.D		

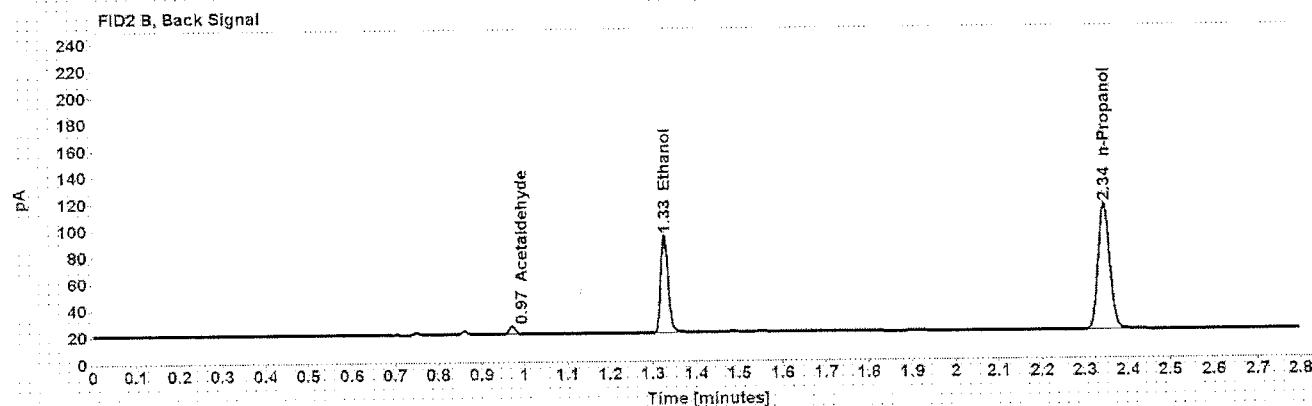
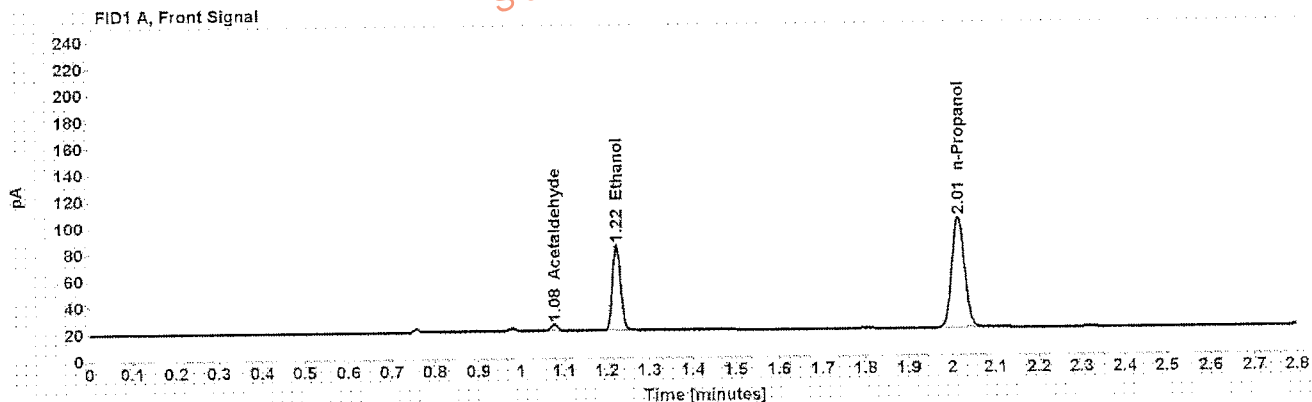


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	5.530
>Ethanol	0.1410	1.223	85.403
n-Propanol	-----	2.013	171.706

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.855
Ethanol	1.326	87.706
n-Propanol	2.344	177.037

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1107541
Injection date:	8/25/2016 3:46:13 PM	Vial:	32
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\25Aug16\32.D		

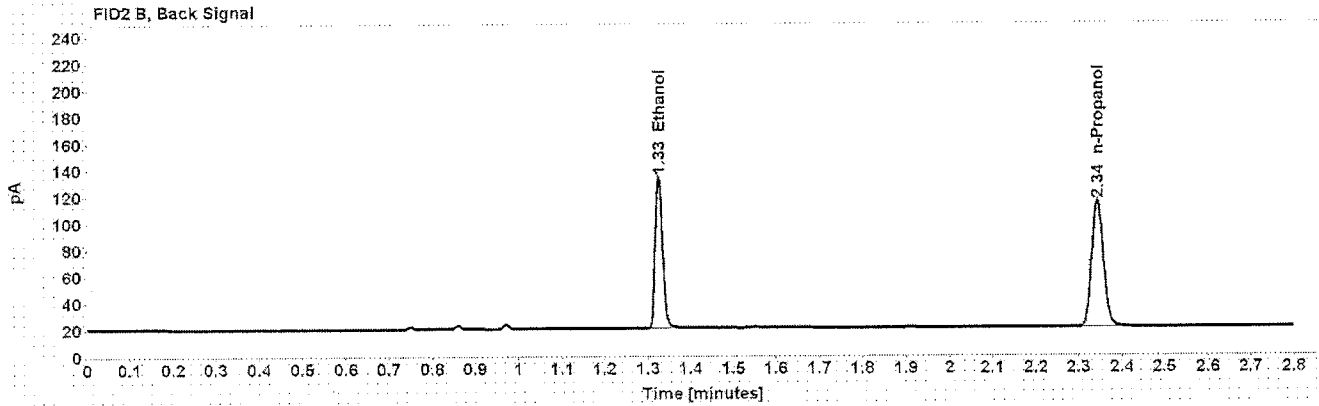
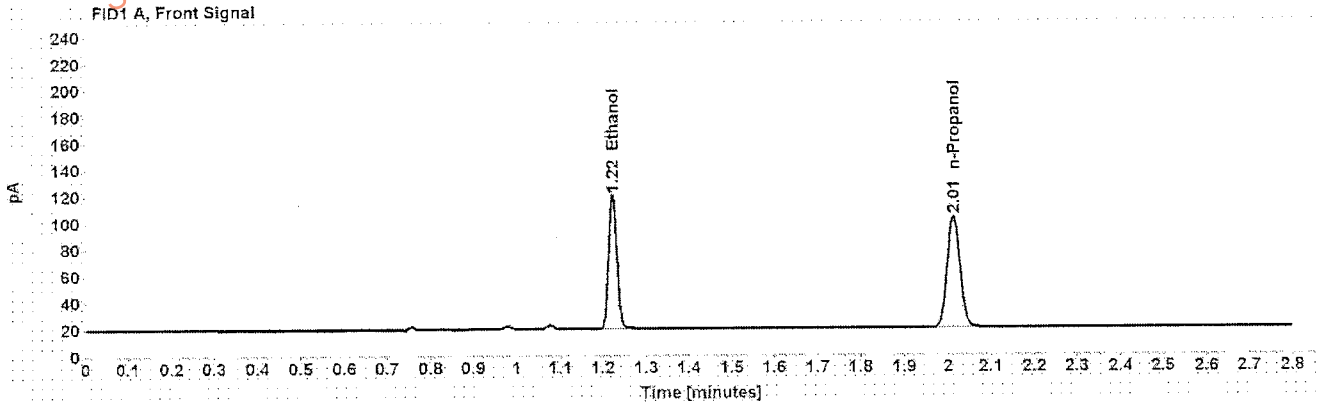


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2175	1.223	132.730
n-Propanol	-----	2.013	172.548

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

Compound	Time (min)	Peak Area
Ethanol	1.325	136.730
n-Propanol	2.343	177.662

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1107541
Injection date:	8/25/2016 3:50:13 PM	Vial:	33
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem321\1Data\25Aug16\33.D		

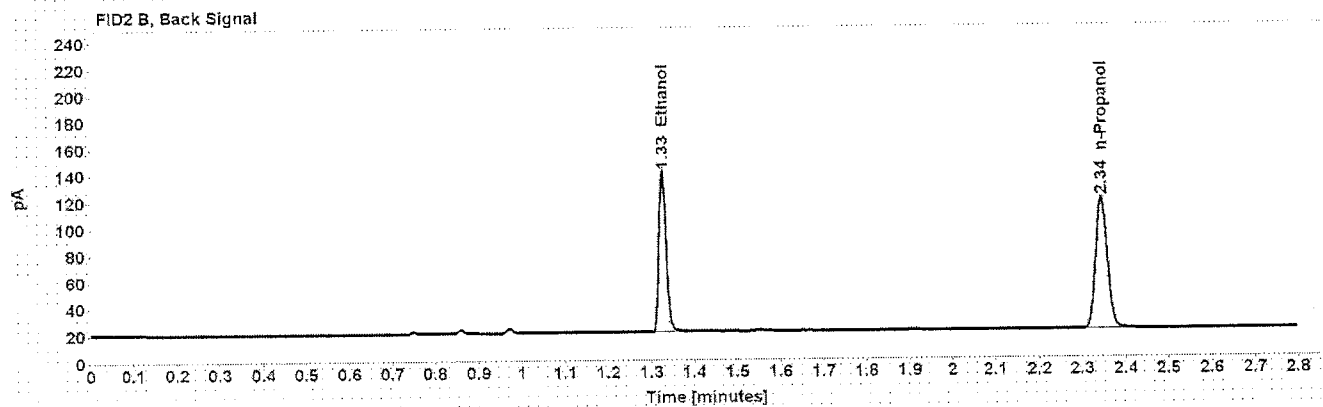
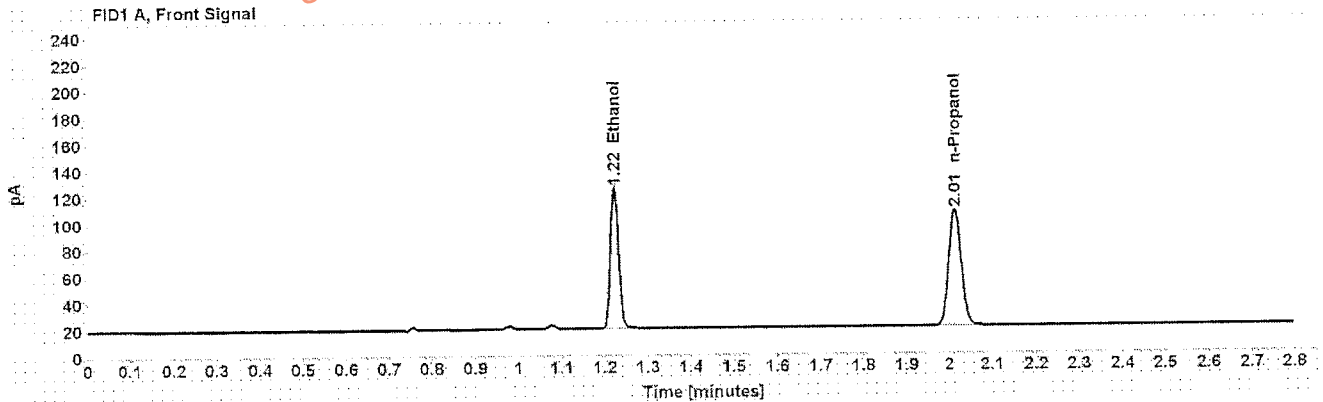


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2204	1.223	139.903
n-Propanol	-----	2.013	179.484

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

Compound	Time (min)	Peak Area
Ethanol	1.326	144.102
n-Propanol	2.344	184.843

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1065648  
Injection date: 8/25/2016 3:54:14 PM Via: 34  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\25Aug16\34.D

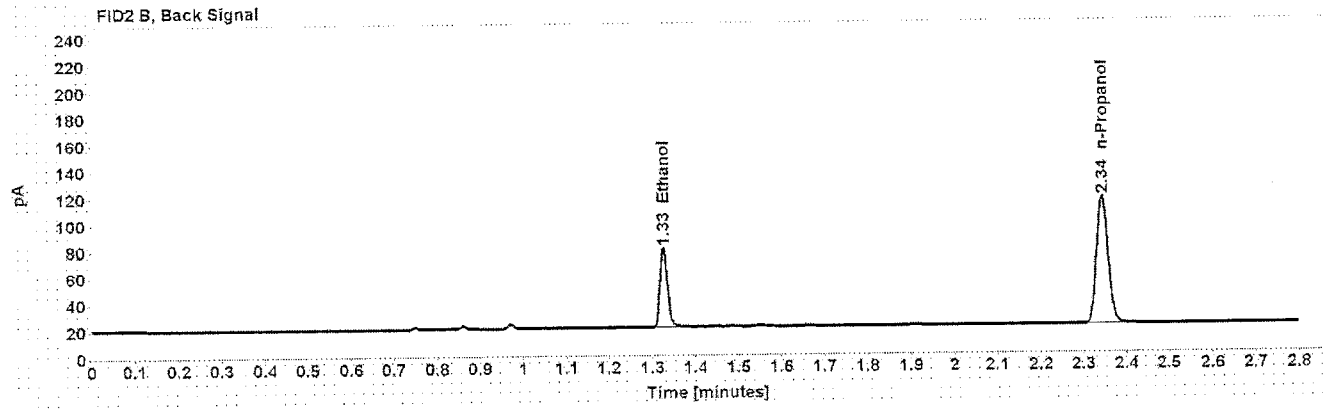
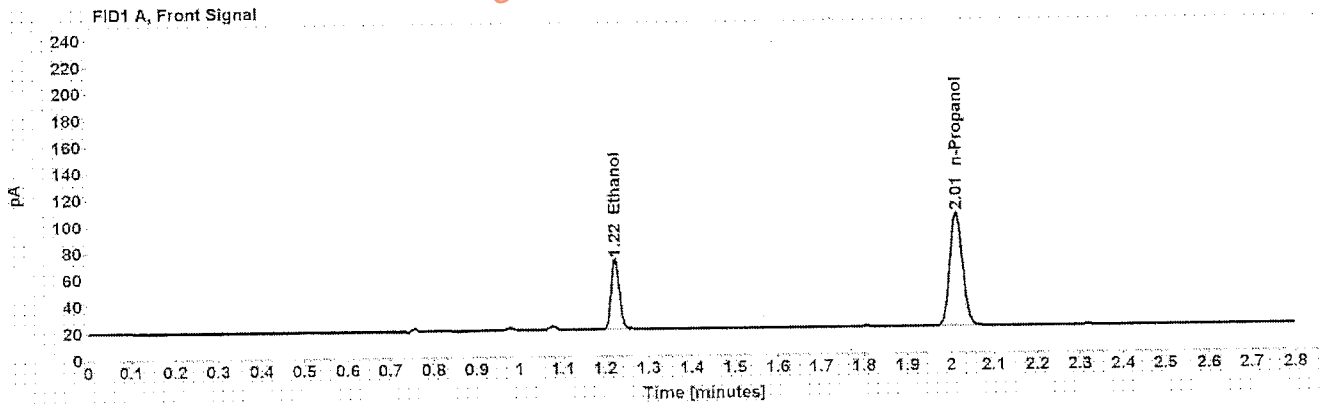


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1133	1.223	69.709
n-Propanol	-----	2.013	174.758

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

Compound	Time (min)	Peak Area
Ethanol	1.326	72.217
n-Propanol	2.344	180.601

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1065648  
Injection date: 8/25/2016 3:58:14 PM Vial: 35  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\25Aug16\35.D

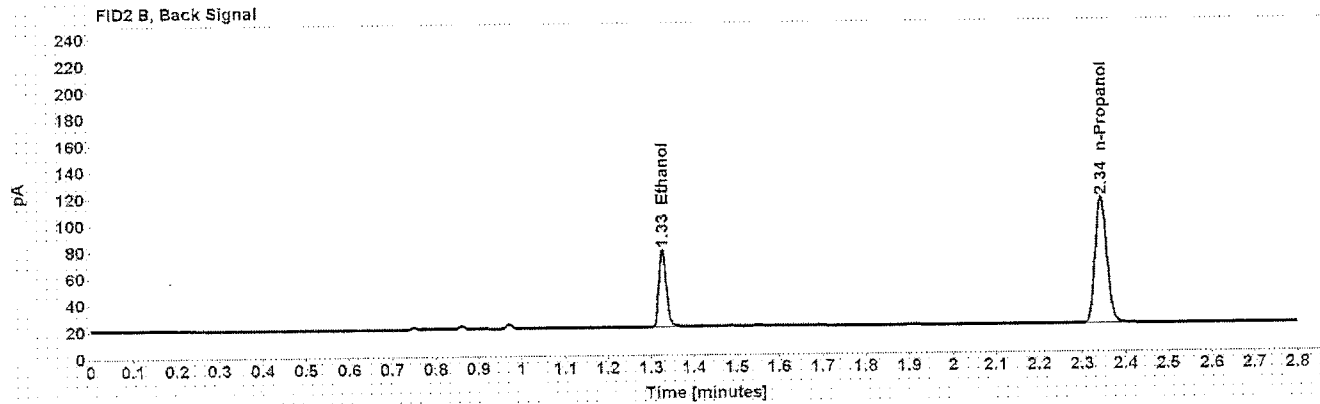
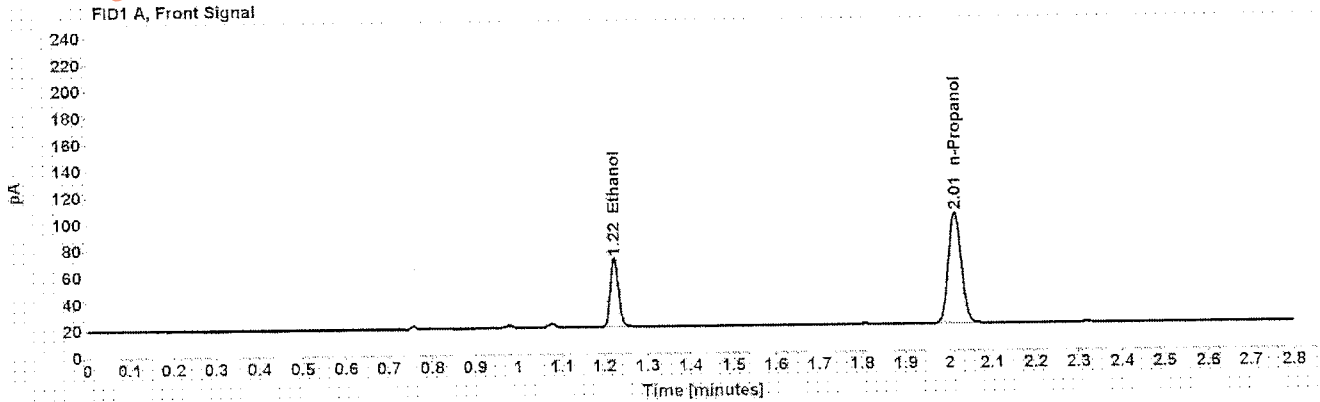


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1124	1.223	68.080
n-Propanol	-----	2.013	171.979

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

Compound	Time (min)	Peak Area
Ethanol	1.326	70.191
n-Propanol	2.344	177.483

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1107468
Injection date:	8/25/2016 4:02:14 PM	Vial:	36
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11>Data\25Aug16\36.D		

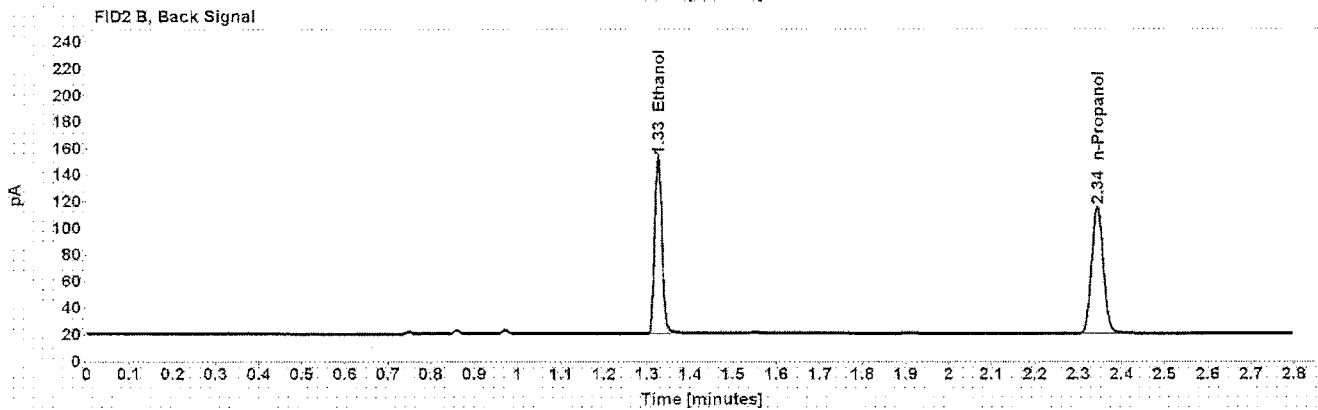
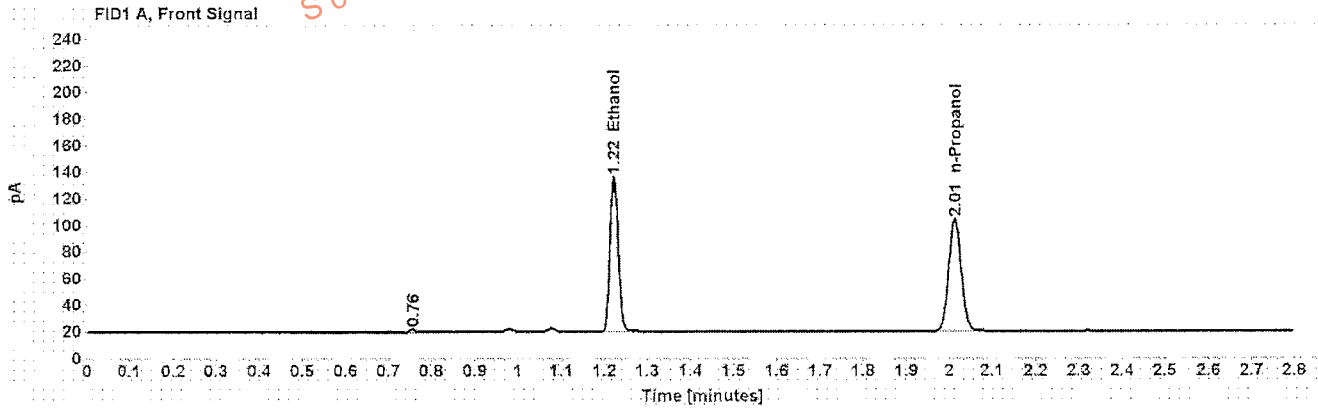


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2517	1.222	154.679
n-Propanol	-----	2.013	173.655

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

Compound	Time (min)	Peak Area
Ethanol	1.325	159.617
n-Propanol	2.344	178.979

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1107468  
Injection date: 8/25/2016 4:06:29 PM Vial: 37  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\11\Data\25Aug16\137.D

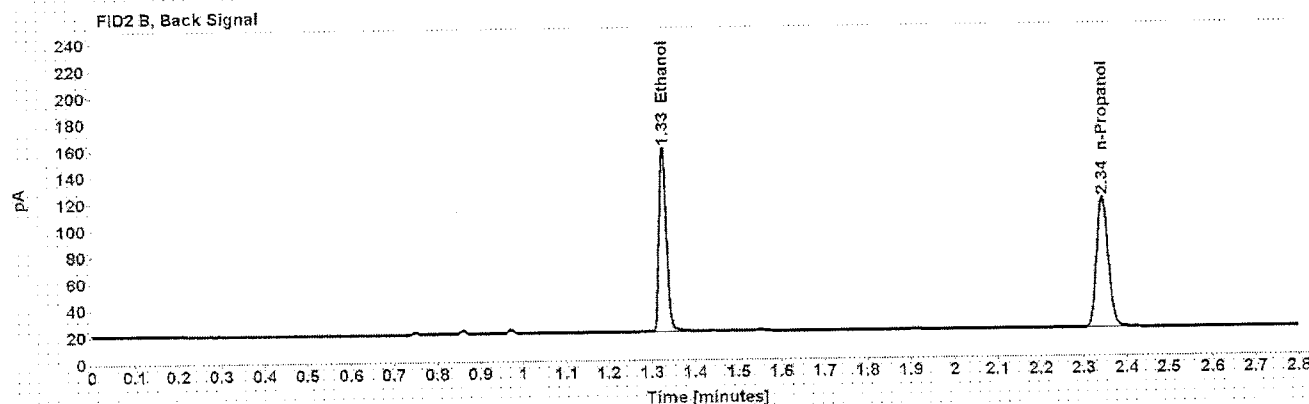
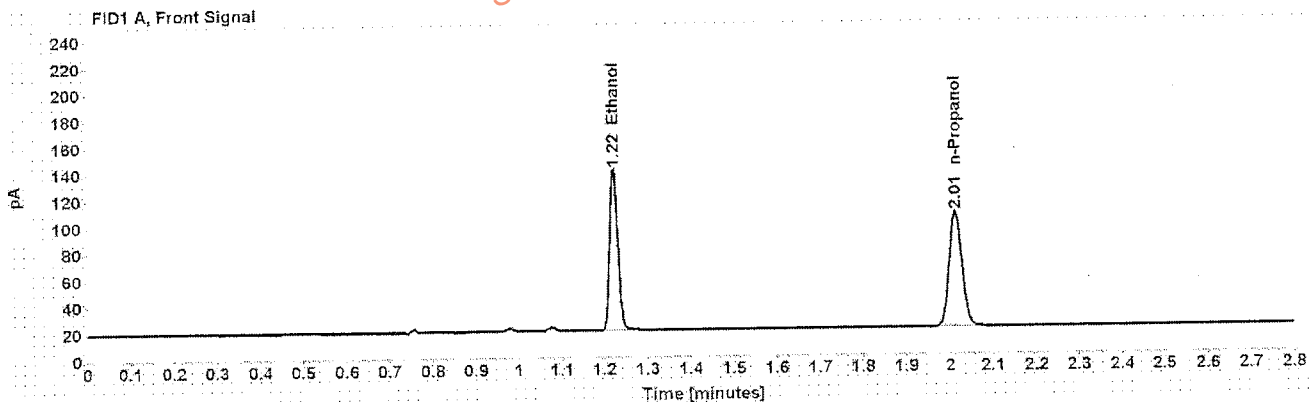


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2545	1.223	160.016
n-Propanol	-----	2.014	177.719

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

Compound	Time (min)	Peak Area
Ethanol	1.326	166.642
n-Propanol	2.344	183.386



Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1107173
Injection date:	8/25/2016 4:10:28 PM	Vial:	38
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem321\Data\25Aug16\38.D		

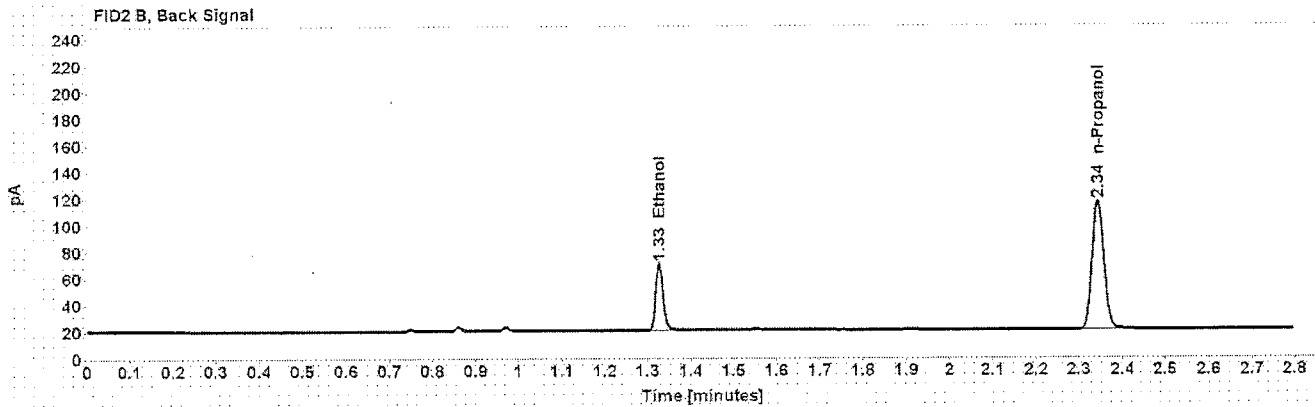
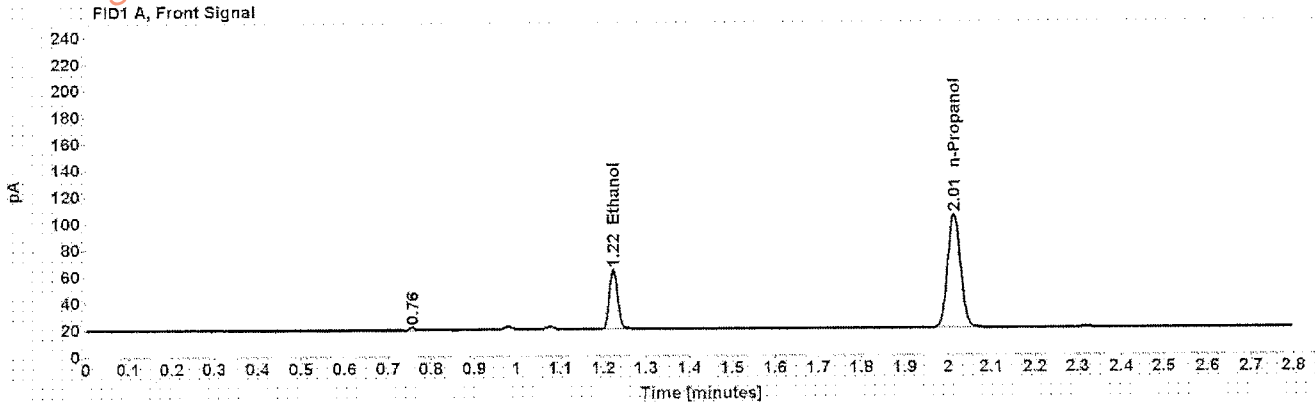


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0953	1.223	58.931
n-Propanol	-----	2.013	175.943

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

Compound	Time (min)	Peak Area
Ethanol	1.326	60.645
n-Propanol	2.344	181.682

Case: [REDACTED] User: alangan 8/26/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1107173
Injection date: 8/25/2016 4:14:29 PM	Vial: 39
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\25Aug16\39.D	

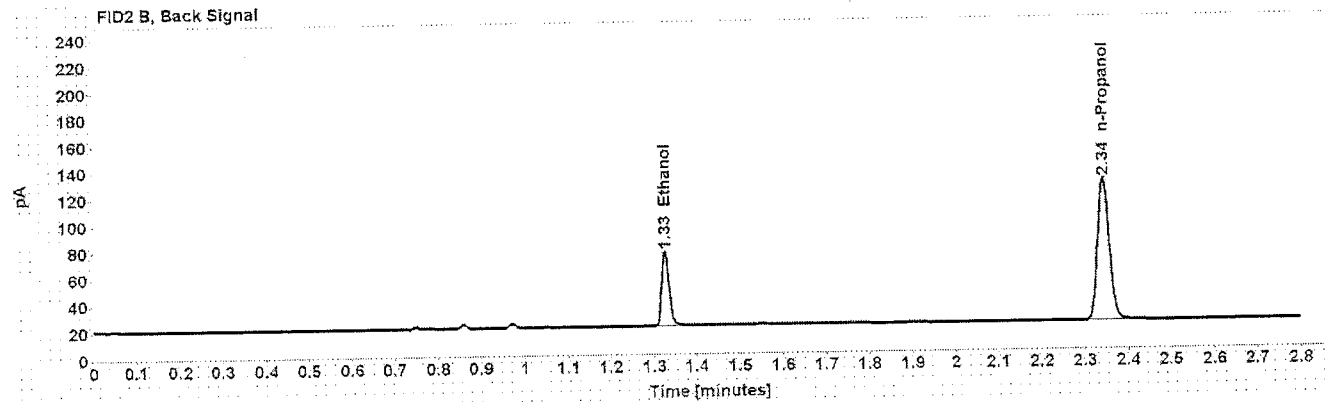
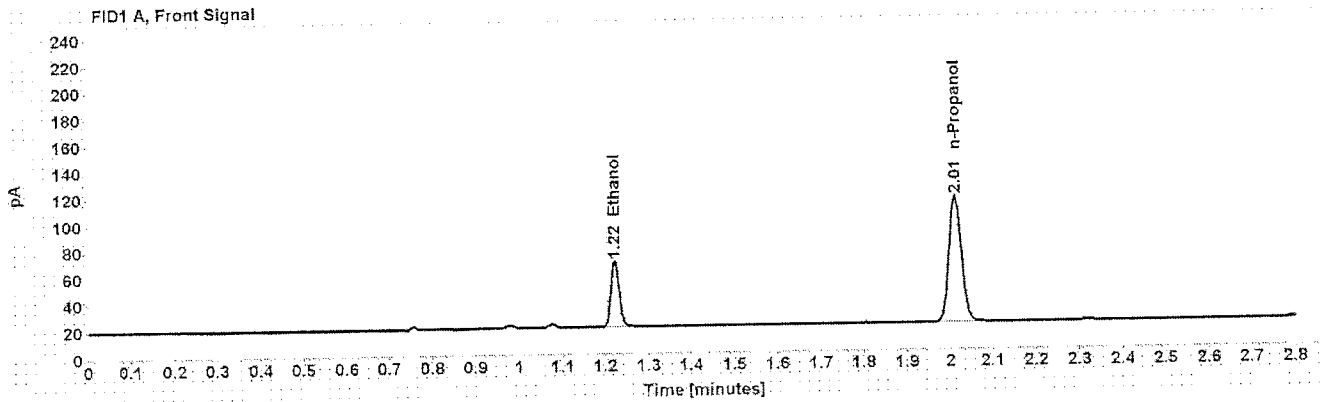


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0959	1.223	65.351
n-Propanol	-----	2.013	193.842

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

Compound	Time (min)	Peak Area
Ethanol	1.326	67.255
n-Propanol	2.344	200.169

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1072751
Injection date:	8/25/2016 4:18:29 PM	Vial:	40
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\25Aug16\40.D		

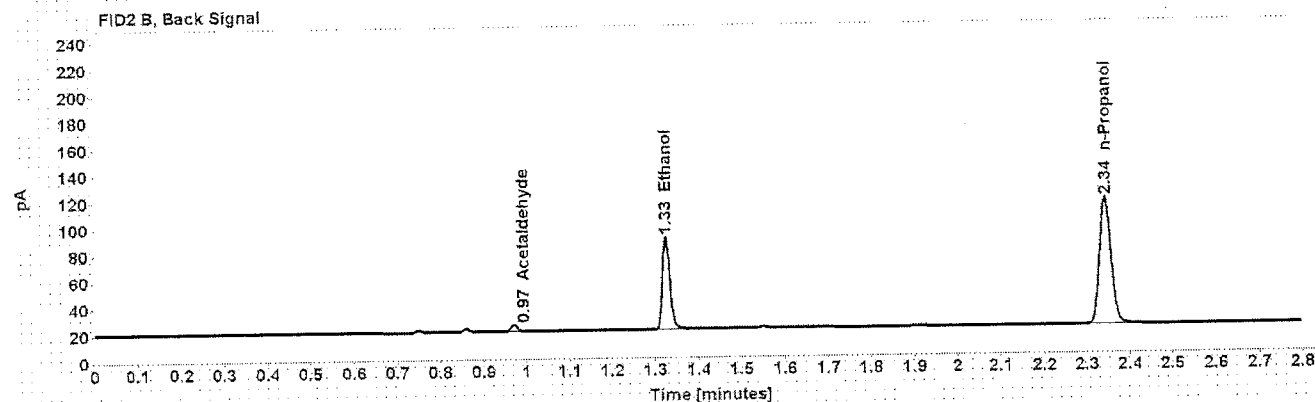
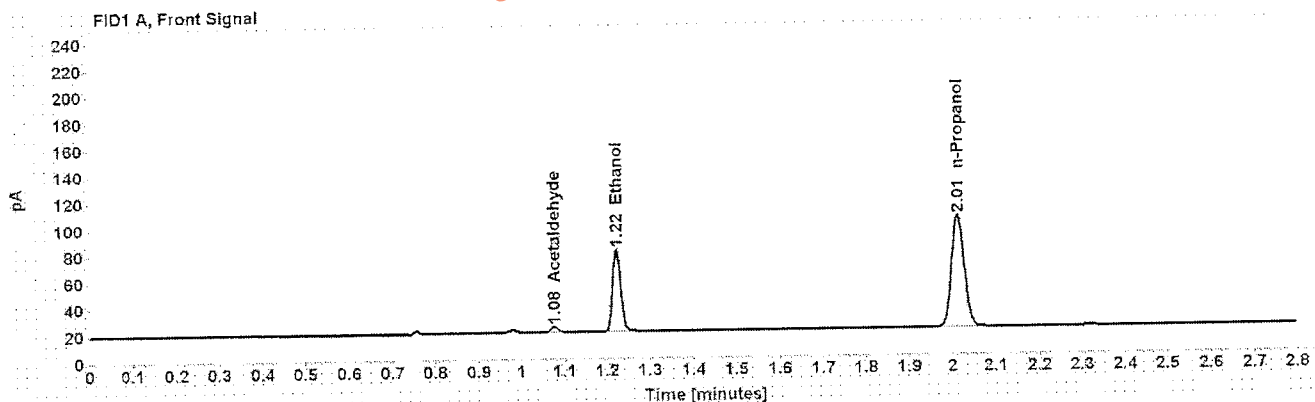


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.076	4.487
>Ethanol	0.1338	1.223	81.665
n-Propanol	-----	2.013	173.149

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.791
Ethanol	1.326	83.912
n-Propanol	2.343	178.977

Case: [REDACTED] User: alangan 8/26/2016

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Item number:</b> 1072751
<b>Injection date:</b> 8/25/2016 4:22:29 PM	<b>Vial:</b> 41
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 25Aug16
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Langan
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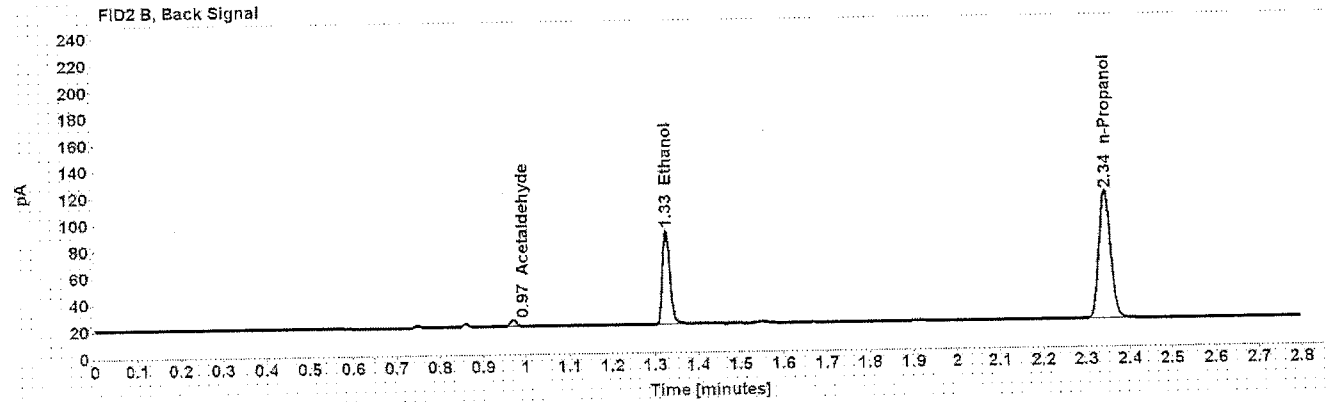
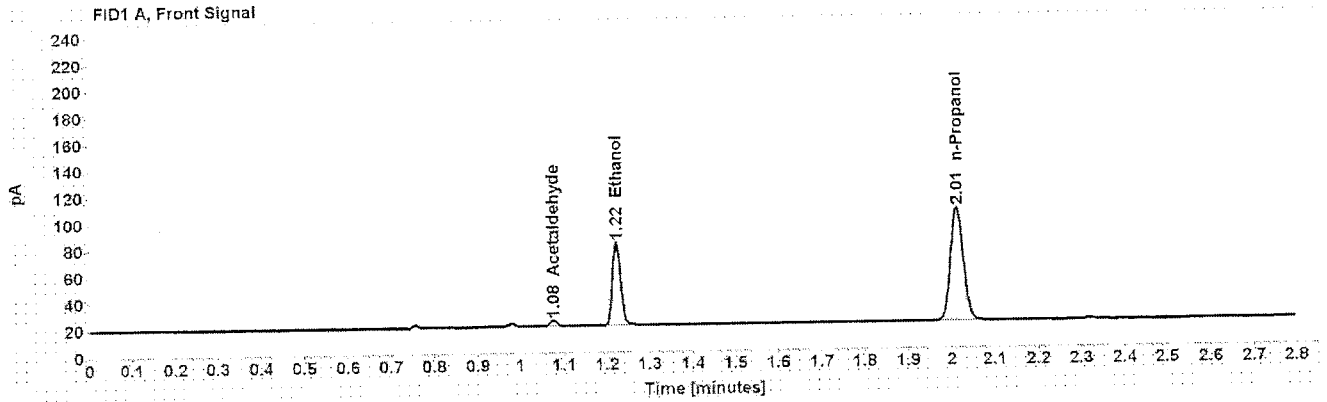


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.076	4.556
>Ethanol	0.1339	1.223	82.621
n-Propanol	-----	2.013	174.947

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.862
Ethanol	1.326	85.021
n-Propanol	2.343	180.789

Case: [REDACTED]

User: alangan 8/26/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1108800
Injection date:	8/25/2016 4:30:43 PM	Vial:	43
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\25Aug16\43.D		

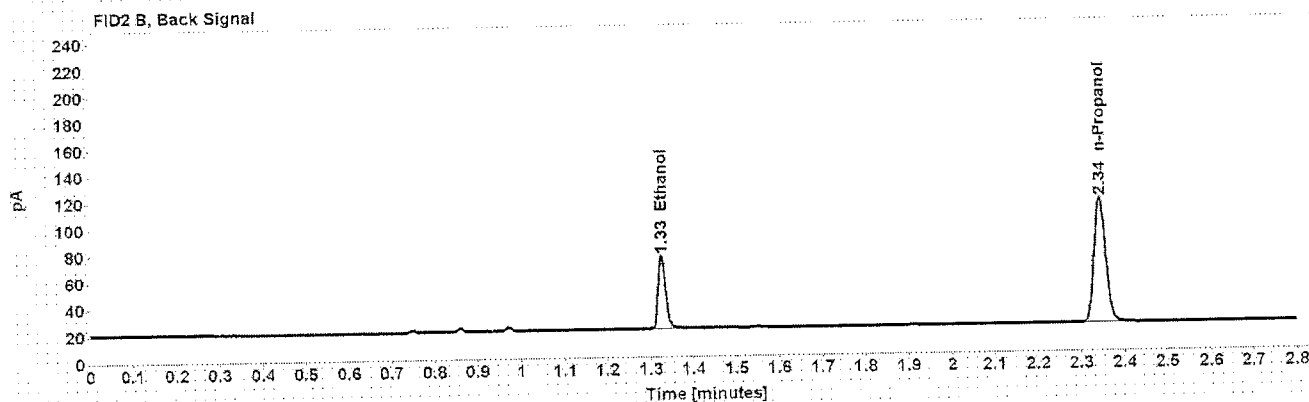
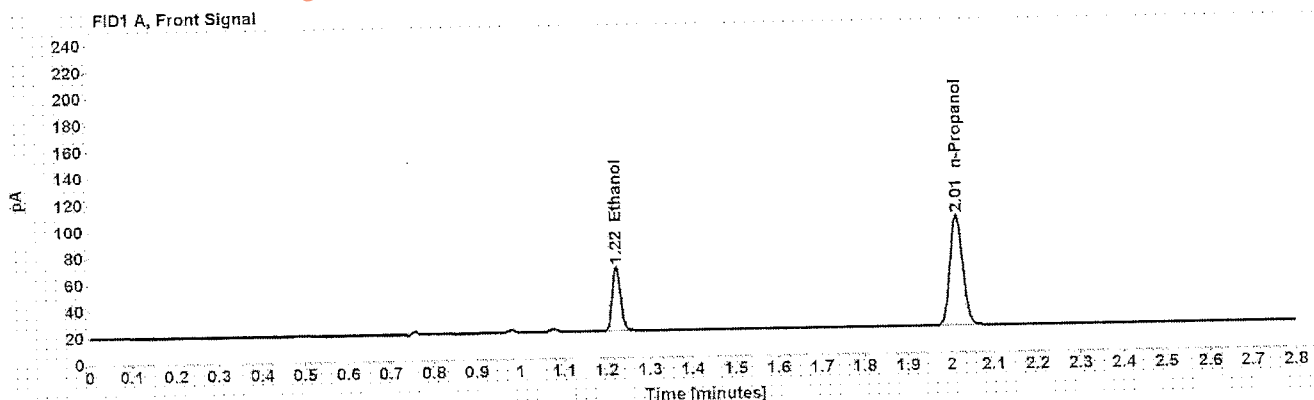


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1063	1.223	64.033
n-Propanol	-----	2.013	171.138

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

Compound	Time (min)	Peak Area
Ethanol	1.326	65.882
n-Propanol	2.344	176.515

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1108800  
Injection date: 8/25/2016 4:34:44 PM Vial: 44  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\1\Data\25Aug16\144.D

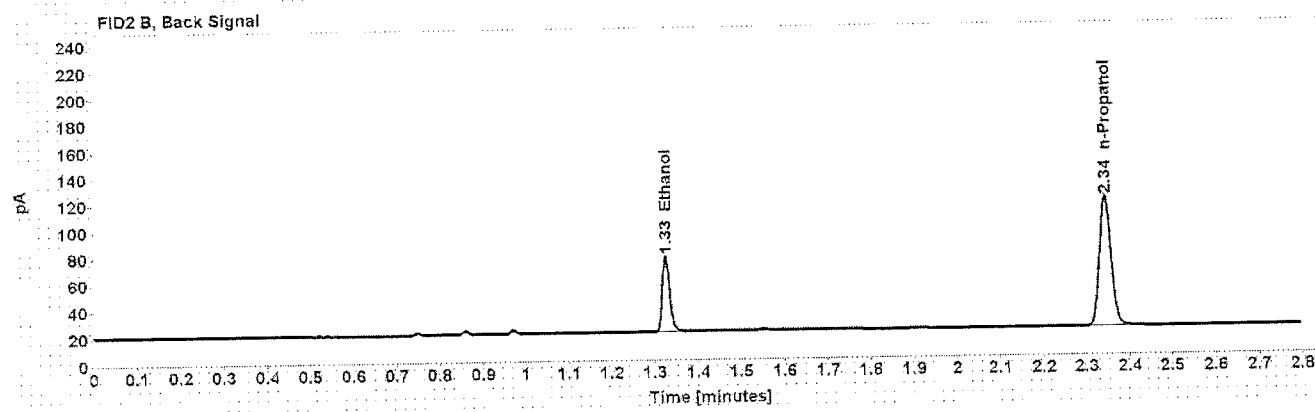
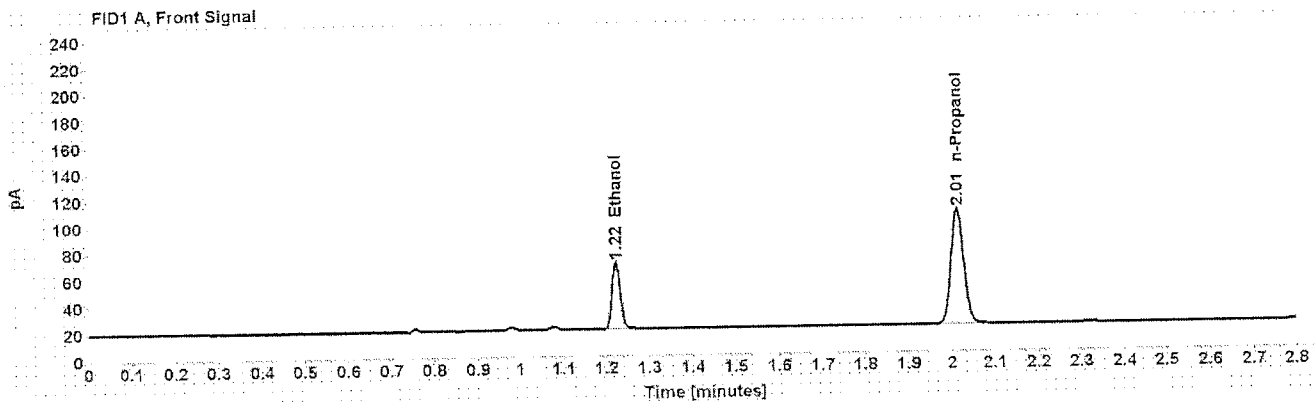


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1064	1.223	66.681
n-Propanol	-----	2.013	177.987

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

Compound	Time (min)	Peak Area
Ethanol	1.326	68.658
n-Propanol	2.344	183.680

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 321-01A
Injection date: 8/25/2016 4:38:43 PM	Vial: 45
Method: ethanol quant.M	Sequence: 25Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem321\Data\25Aug16\45.D	

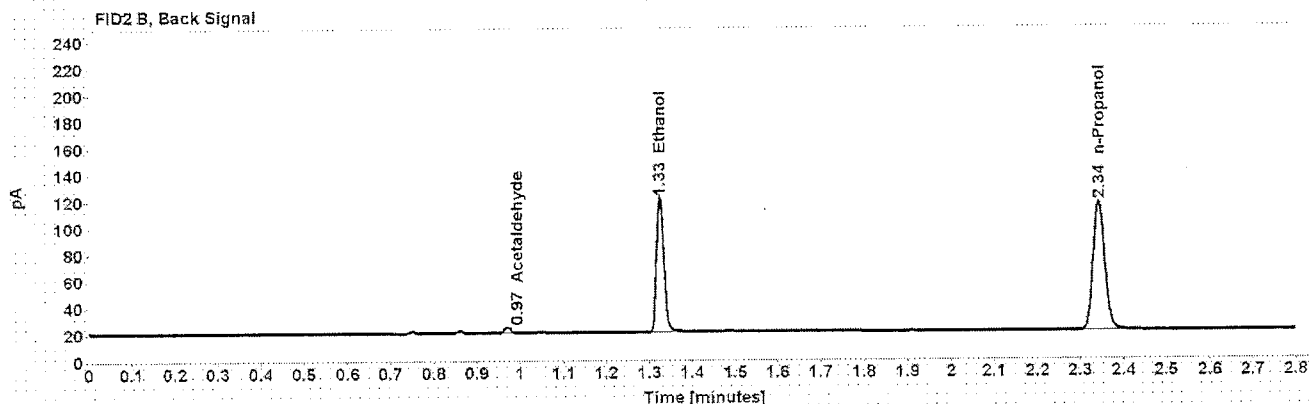
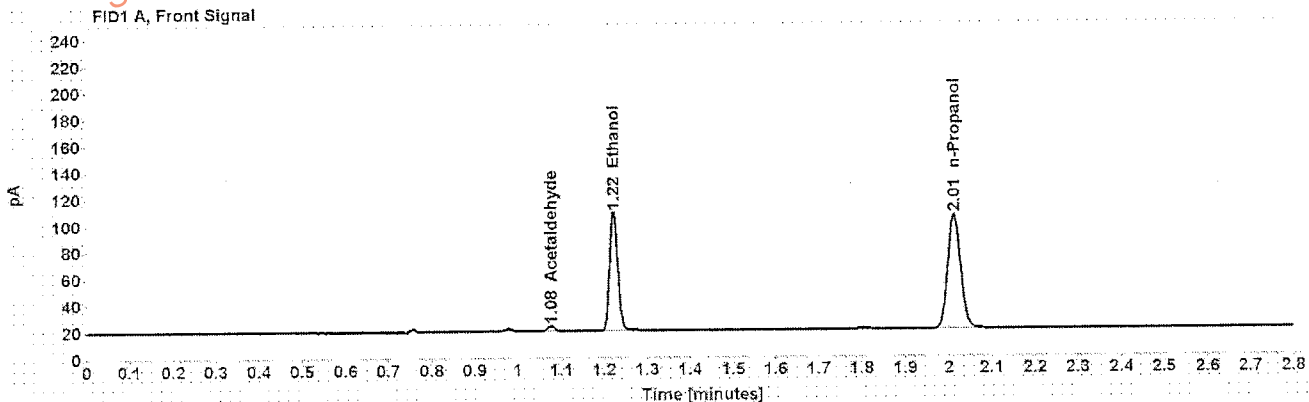


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.076	4.013
>Ethanol	0.1887	1.222	117.838
n-Propanol	-----	2.013	176.712

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.305
Ethanol	1.325	121.442
n-Propanol	2.343	181.961

Case: [REDACTED] User: alangan 8/26/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	321-01A
Injection date:	8/25/2016 4:42:44 PM	Vial:	46
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\25Aug16\46.D		

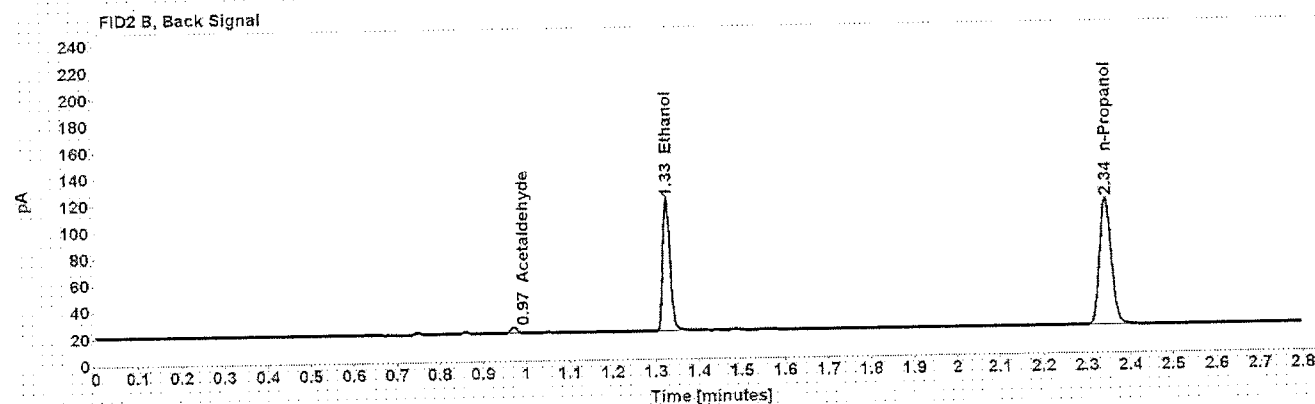
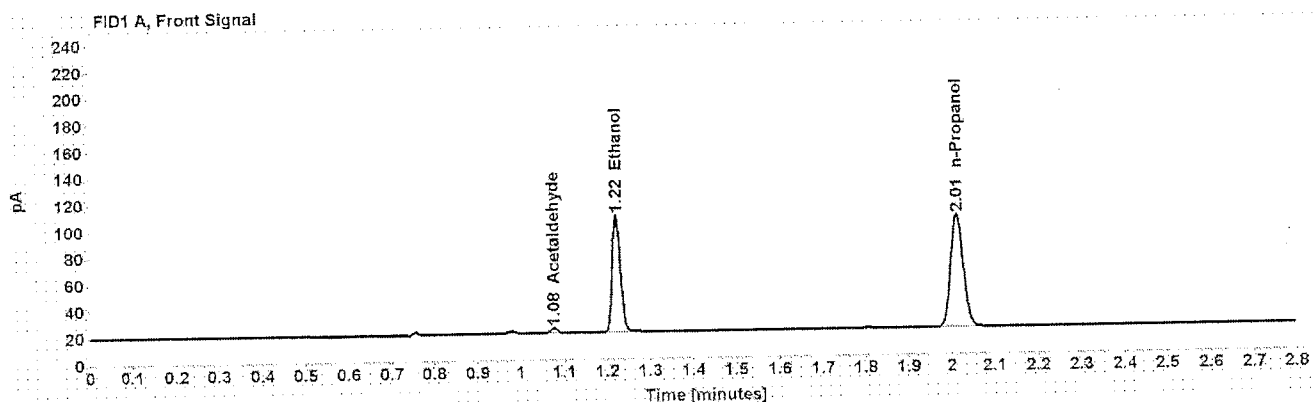


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	3.967
>Ethanol	0.1885	1.223	116.167
n-Propanol	-----	2.013	174.358

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	4.268
Ethanol	1.325	119.786
n-Propanol	2.344	179.500



Case: [REDACTED] User: alangan 8/26/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1051668  
Injection date: 8/25/2016 4:46:44 PM Vial: 47  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\11\Data\25Aug16\47.D

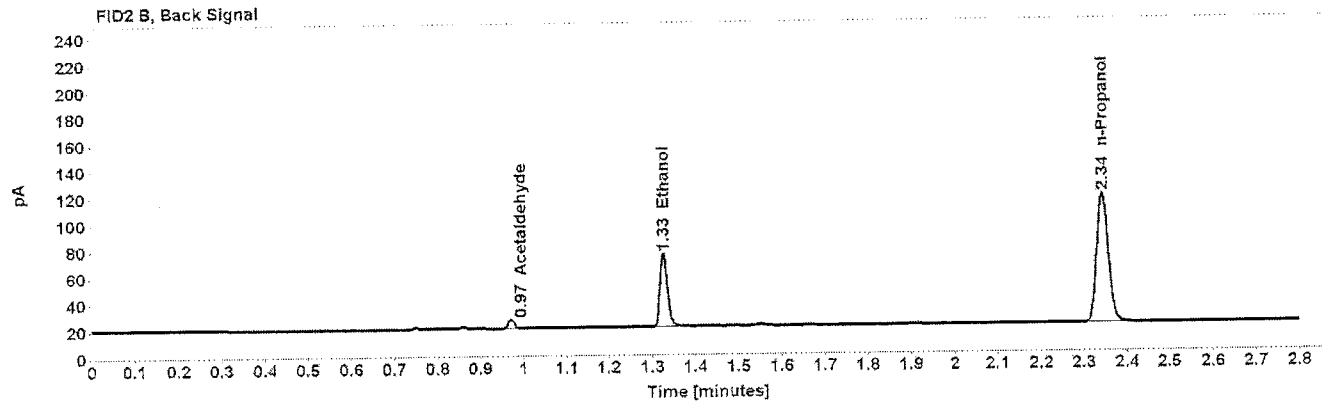
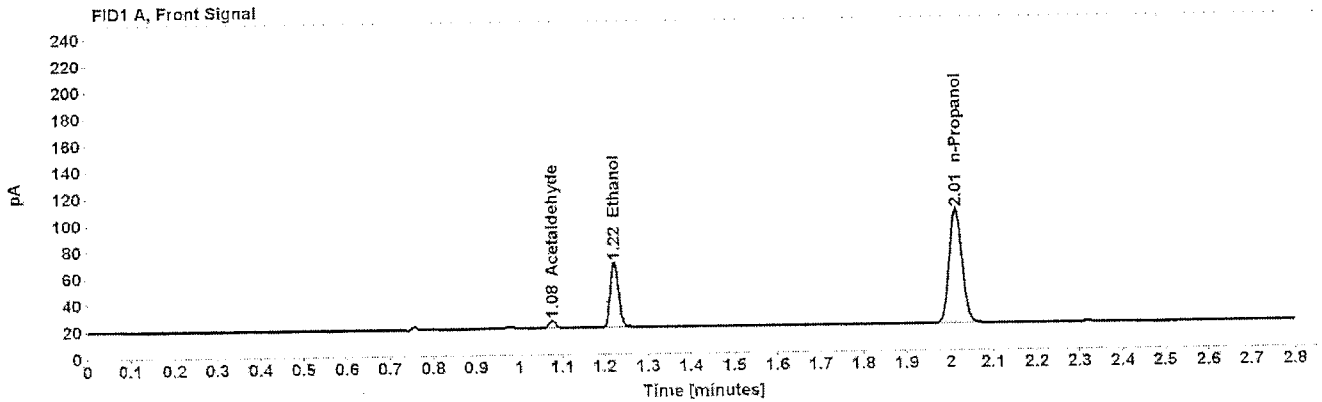


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	6.212
>Ethanol	0.1039	1.223	64.760
n-Propanol	-----	2.013	177.151

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	6.501
Ethanol	1.326	67.122
n-Propanol	2.344	183.037

Case: [redacted] User: alangan 8/26/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [redacted] Item number: 1051668  
Injection date: 8/25/2016 4:50:43 PM Vial: 48  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\25Aug16\48.D

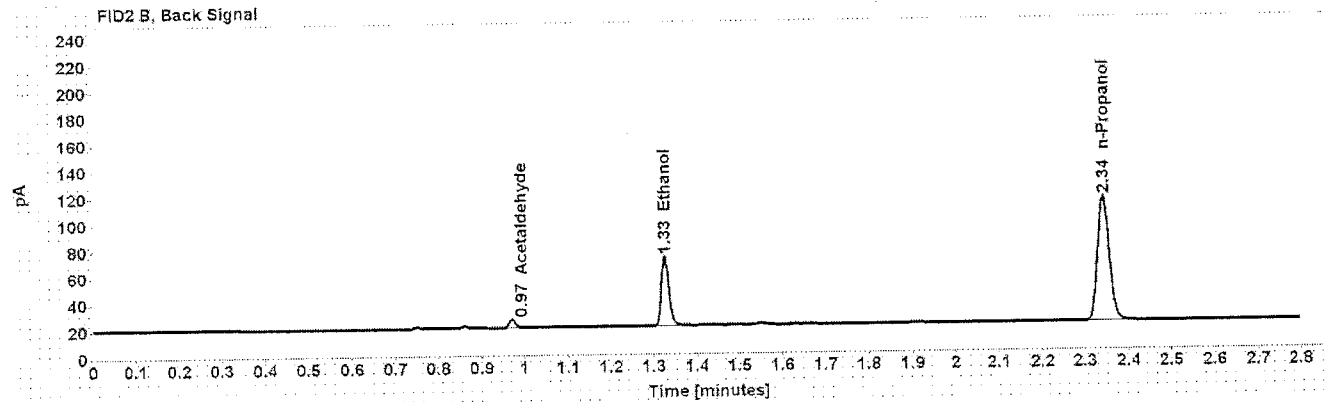
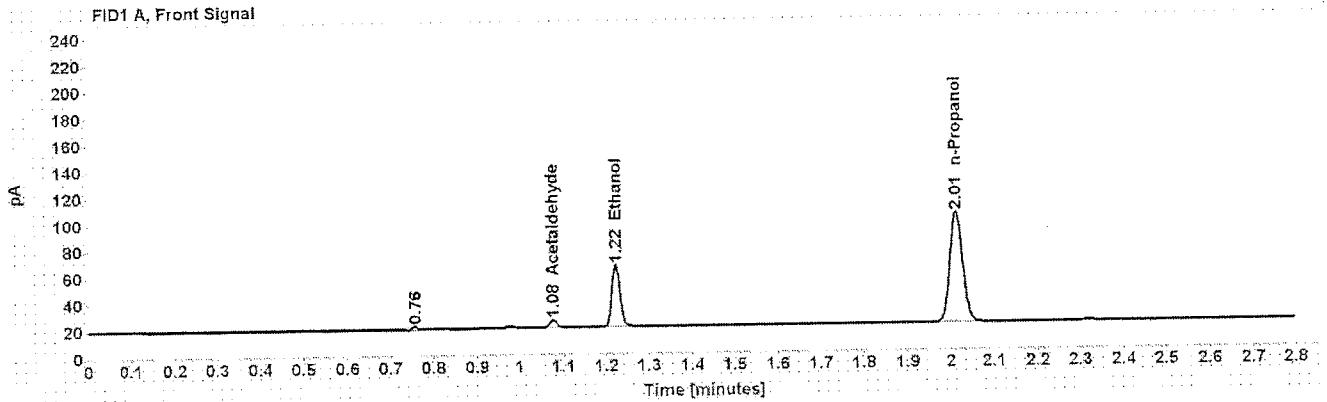


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.076	6.025
>Ethanol	0.1023	1.223	61.439
n-Propanol	-----	2.013	170.769

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	6.414
Ethanol	1.326	63.640
n-Propanol	2.343	176.416

Case: [REDACTED] User: alangan 8/26/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1109378  
Injection date: 8/25/2016 4:54:58 PM Vial: 49  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\25Aug16\49.D

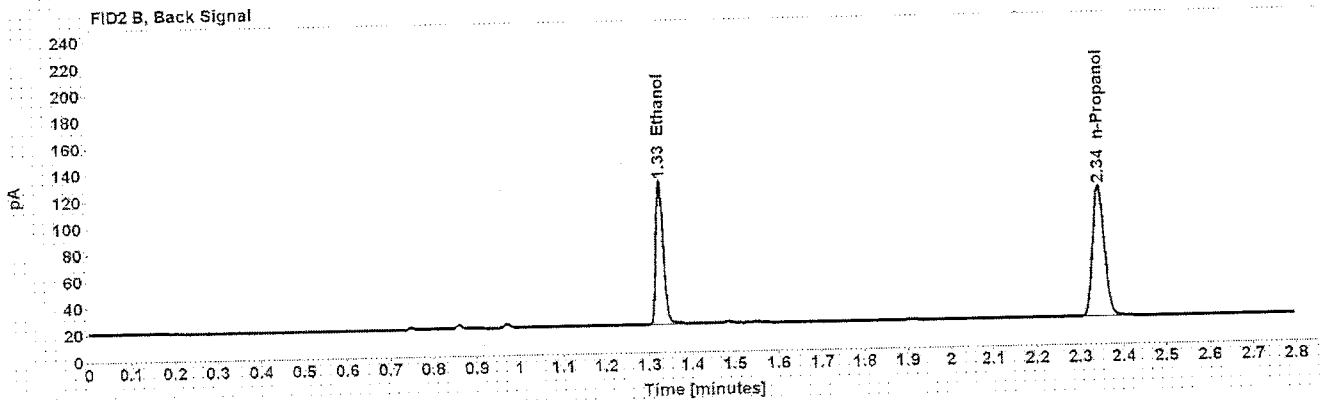
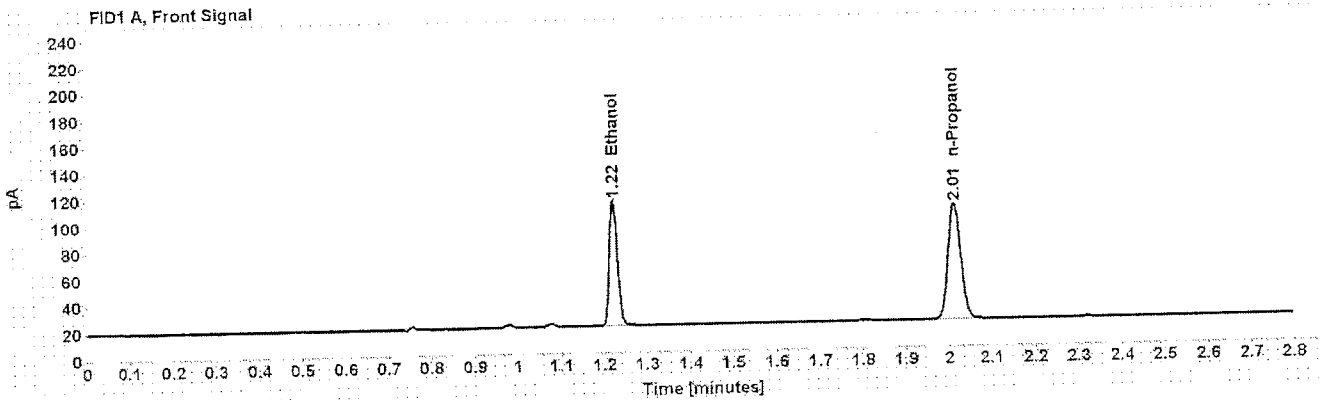


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1971	1.223	125.098
n-Propanol	-----	2.013	179.539

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

Compound	Time (min)	Peak Area
Ethanol	1.326	130.482
n-Propanol	2.344	185.157

Case: [REDACTED] User: alangan 8/26/2016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1109378  
Injection date: 8/25/2016 4:58:59 PM Vial: 50  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem3211\Data\25Aug16\50.D

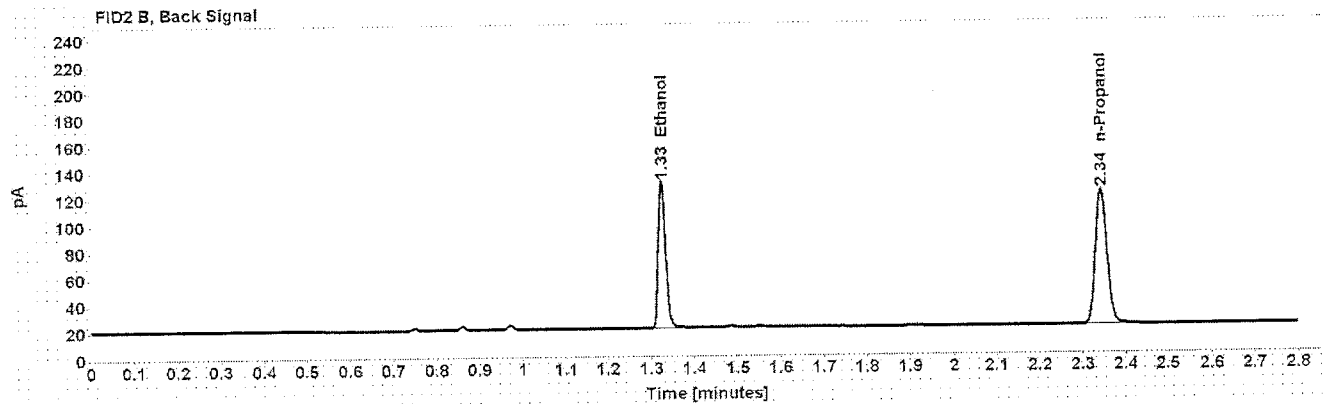
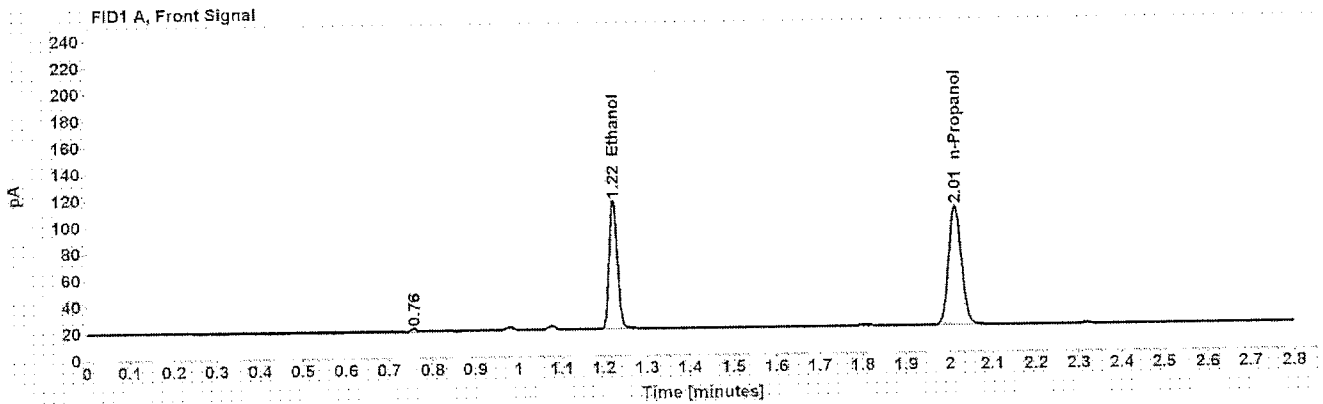


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1962	1.223	127.859
n-Propanol	-----	2.013	184.357

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

Compound	Time (min)	Peak Area
Ethanol	1.325	132.802
n-Propanol	2.344	190.207

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1103766
Injection date:	8/25/2016 5:02:59 PM	Vial:	51
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 ON14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\25Aug16\51.D		

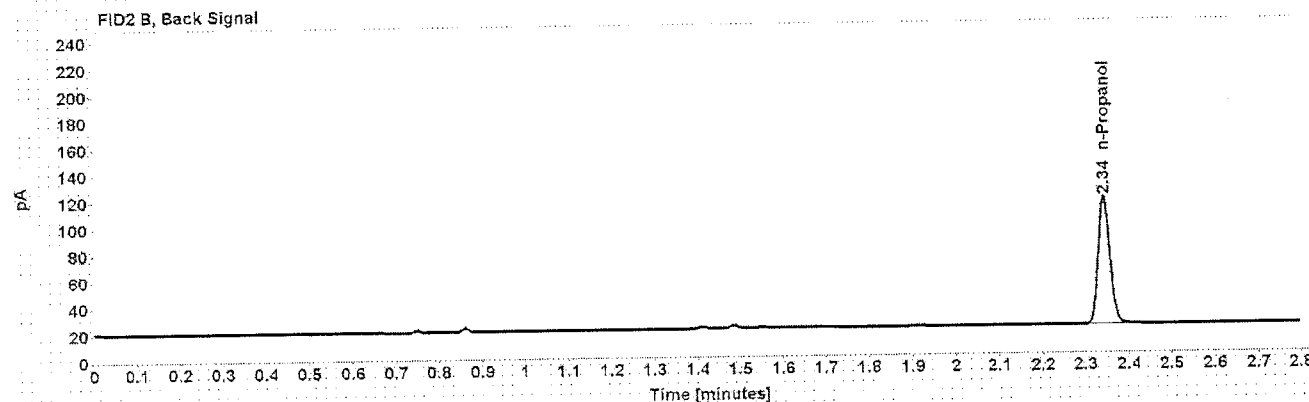
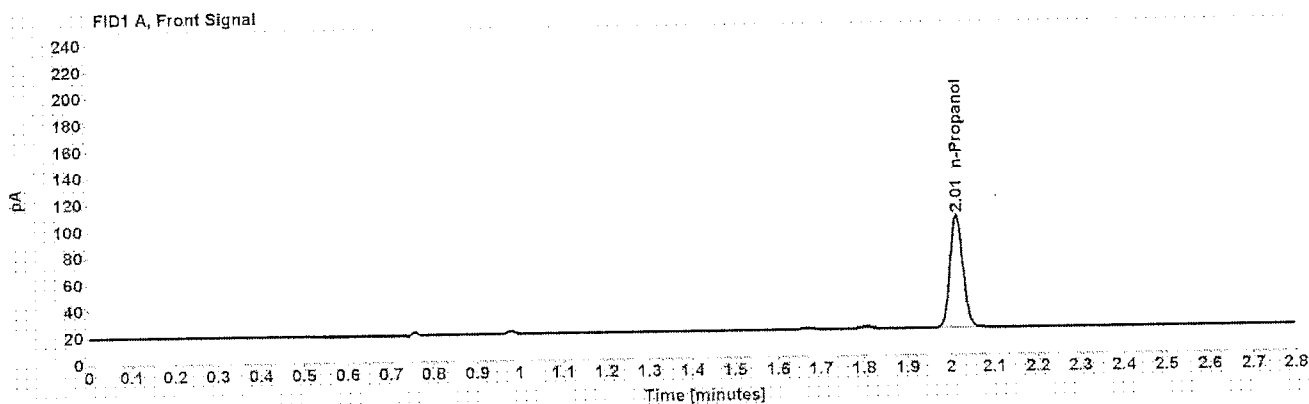


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	174.542

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	180.229

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1103766
Injection date:	8/25/2016 5:06:58 PM	Vial:	52
Method:	ethanol quant.M	Sequence:	25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\25Aug16\52.D		

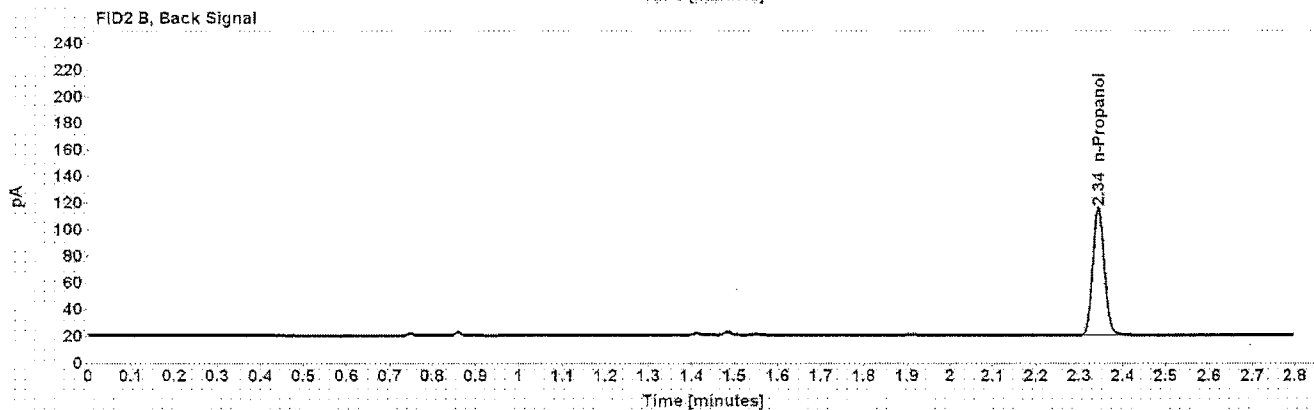
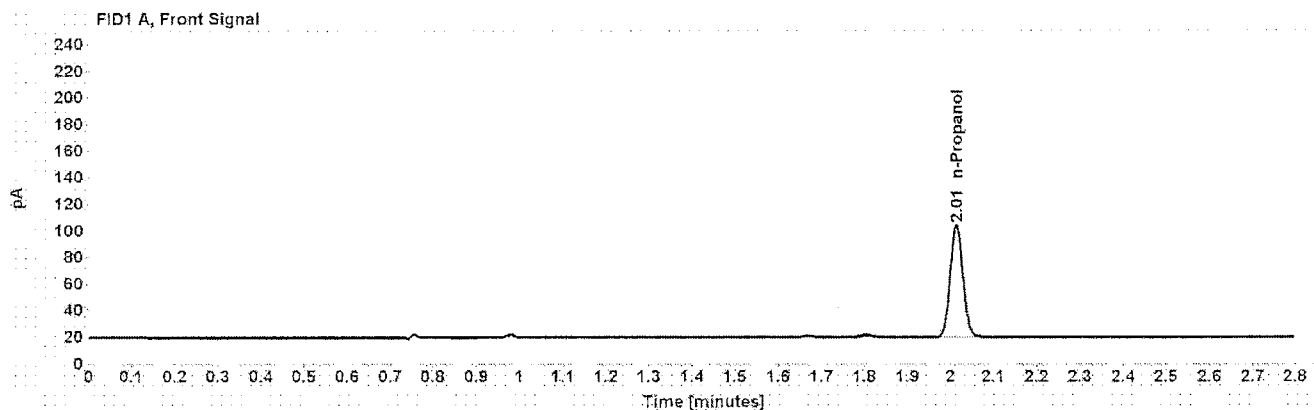


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	174.127

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

Compound	Time (min)	Peak Area
n-Propanol	2.344	179.932

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1098685  
Injection date: 8/25/2016 5:14:59 PM Via: 54  
Method: ethanol quant.M Sequence: 25Aug16  
Instrument: US14173023 CN14160045 Analyst: Langan  
Data file: C:\Chem32\1\Data\25Aug16\54.D

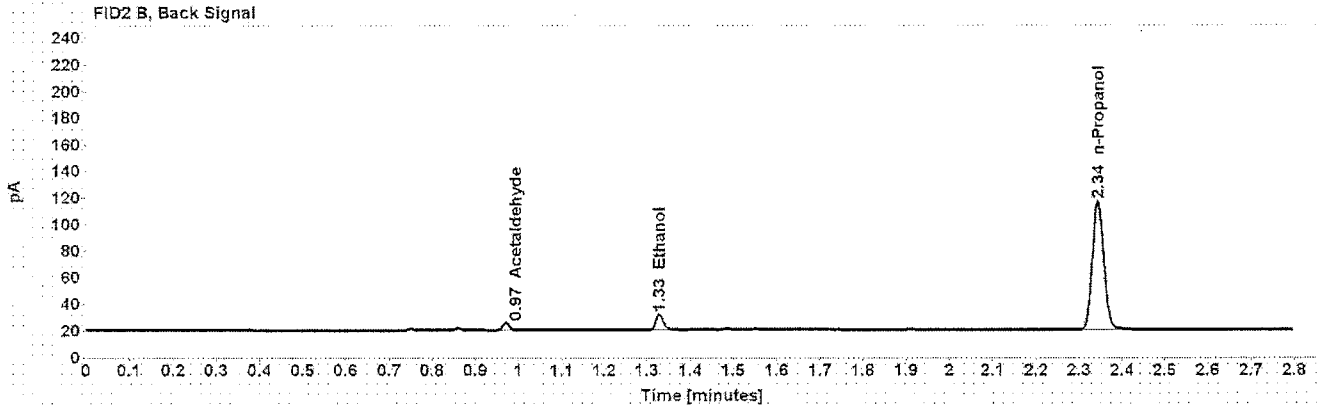
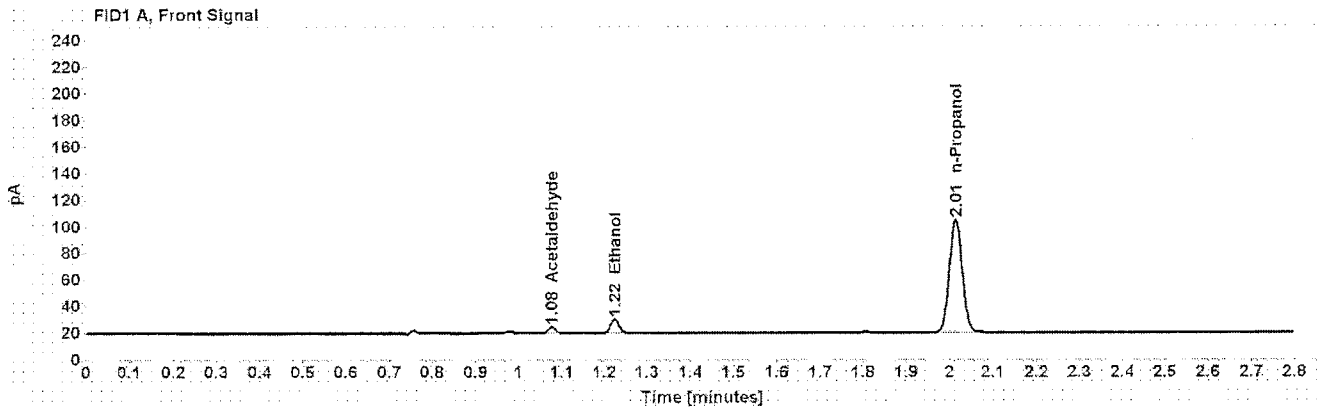


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	5.250
>Ethanol	0.0235	1.224	14.097
n-Propanol	-----	2.013	176.064

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.558
Ethanol	1.328	14.780
n-Propanol	2.344	181.502

Case: [REDACTED] User: alangan 8/26/2016

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1098685
Injection date:	8/25/2016 5:19:14 PM	Vial:	55
Method:	ethanol quant.M	Sequence:	.25Aug16
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\1\Data\25Aug16\55.D		

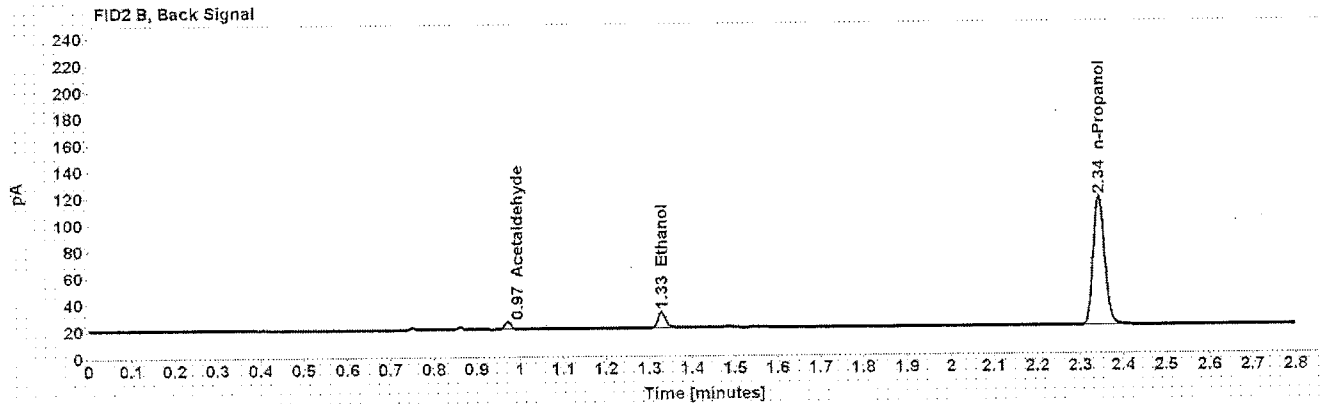
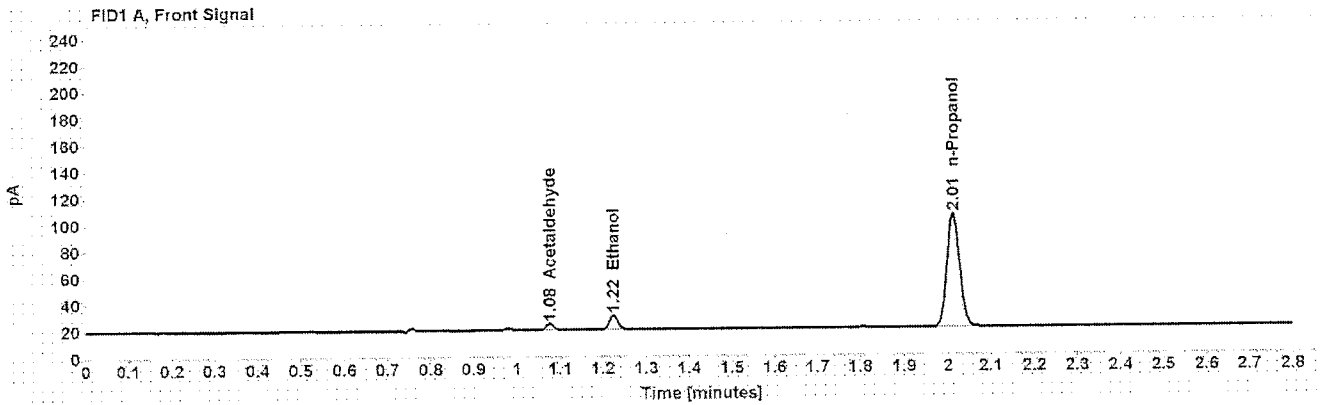


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	5.252
>Ethanol	0.0235	1.224	14.082
n-Propanol	-----	2.013	175.713

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.971	5.555
Ethanol	1.328	15.082
n-Propanol	2.344	181.307