

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 06/05/2016 SEQUENCE NAME 05Jul16

EQUIPMENT

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

INSTRUMENT CALIBRATION

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

CALIBRATION VERIFICATION AND RESOLUTION TEST

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

SUBJECT SAMPLES

Subjects in the sequence 15 Subjects requiring reanalysis 2

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

Run valid ☒
Run invalid ☐

Amir Dangan
Analyst

Run valid ☒
Run invalid ☐

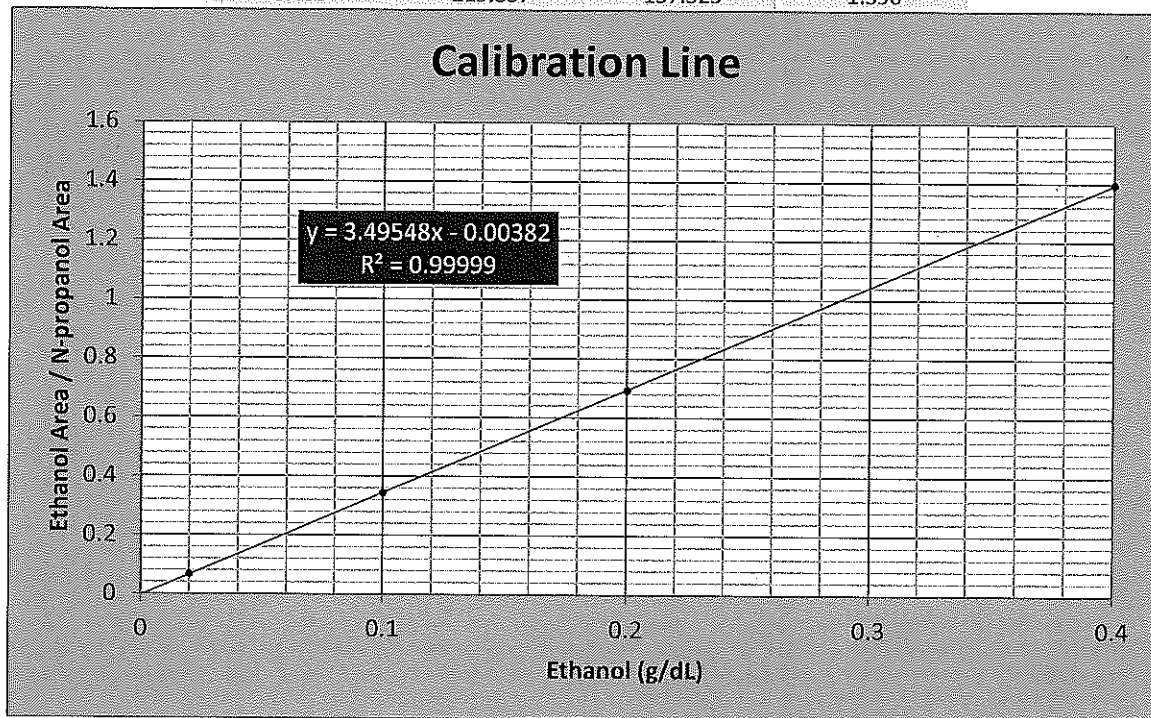
MM 7/1/16
Technical Reviewer

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
SEQUENCE QUALITY ASSURANCE SUMMARY

SEQUENCE NAME: 05Jul16

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

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



Scottsdale Police Department Crime Lab Volatiles Analysis

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

Item number:
Vial: 1
Sequence: 05Jul16.S
Analyst: Langan

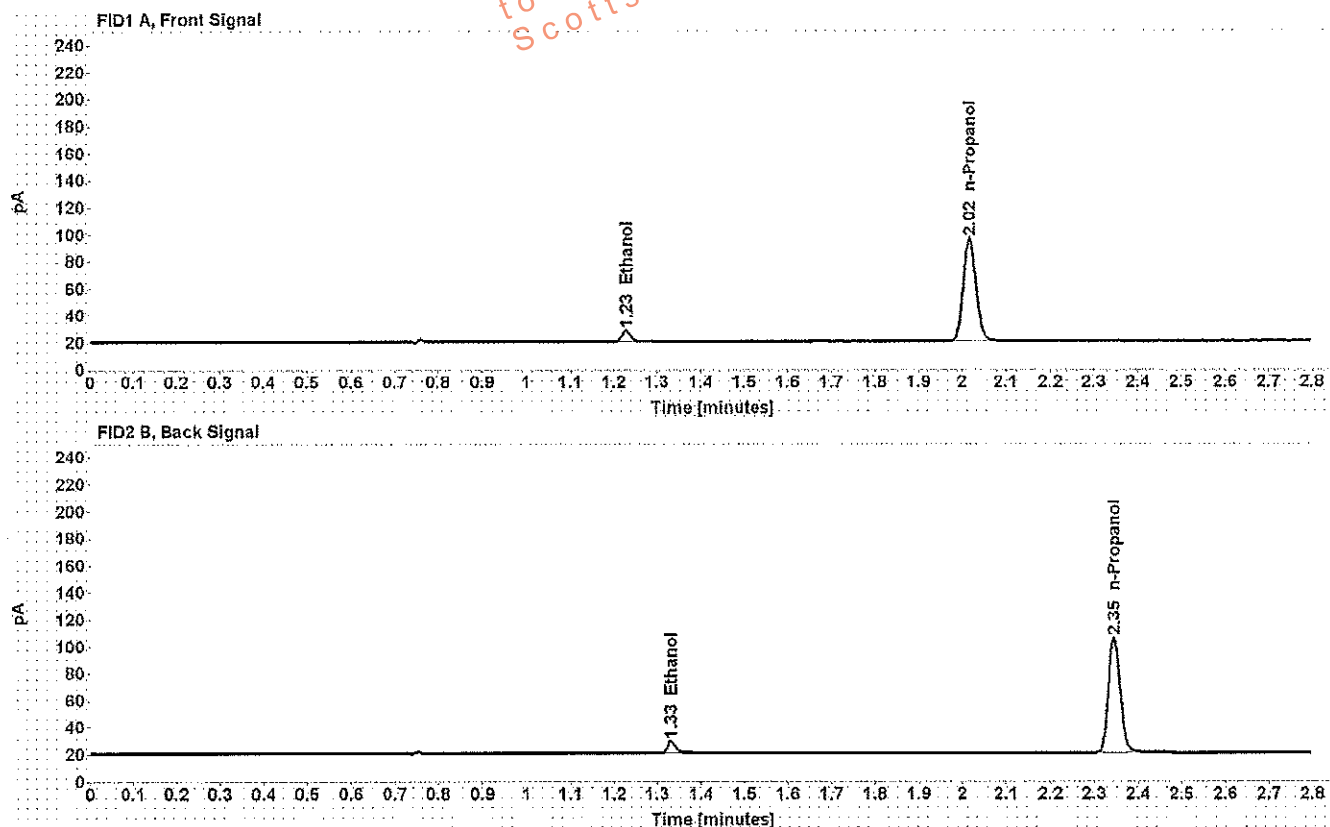


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

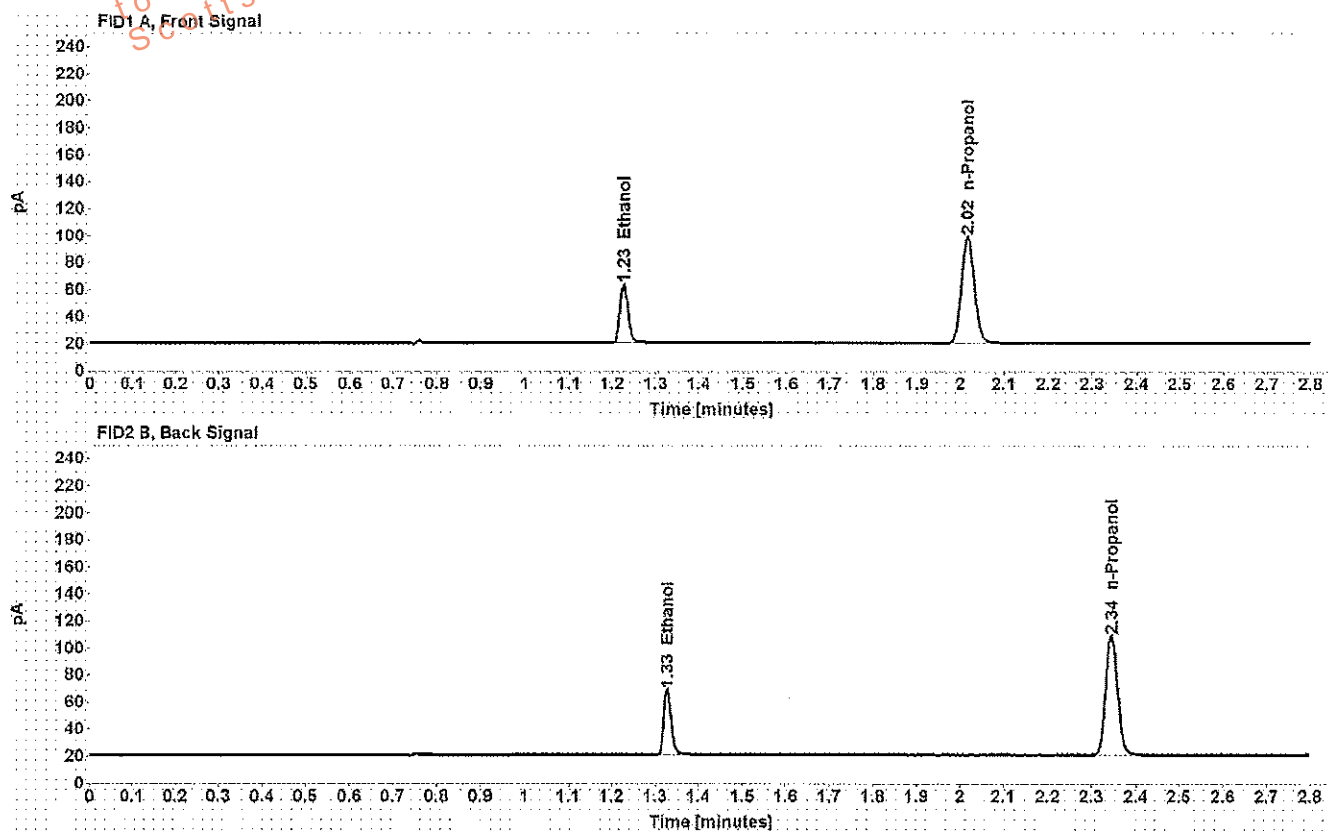


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

Item number:
Vial: 3
Sequence: 05Jul16.S
Analyst: Langan M-

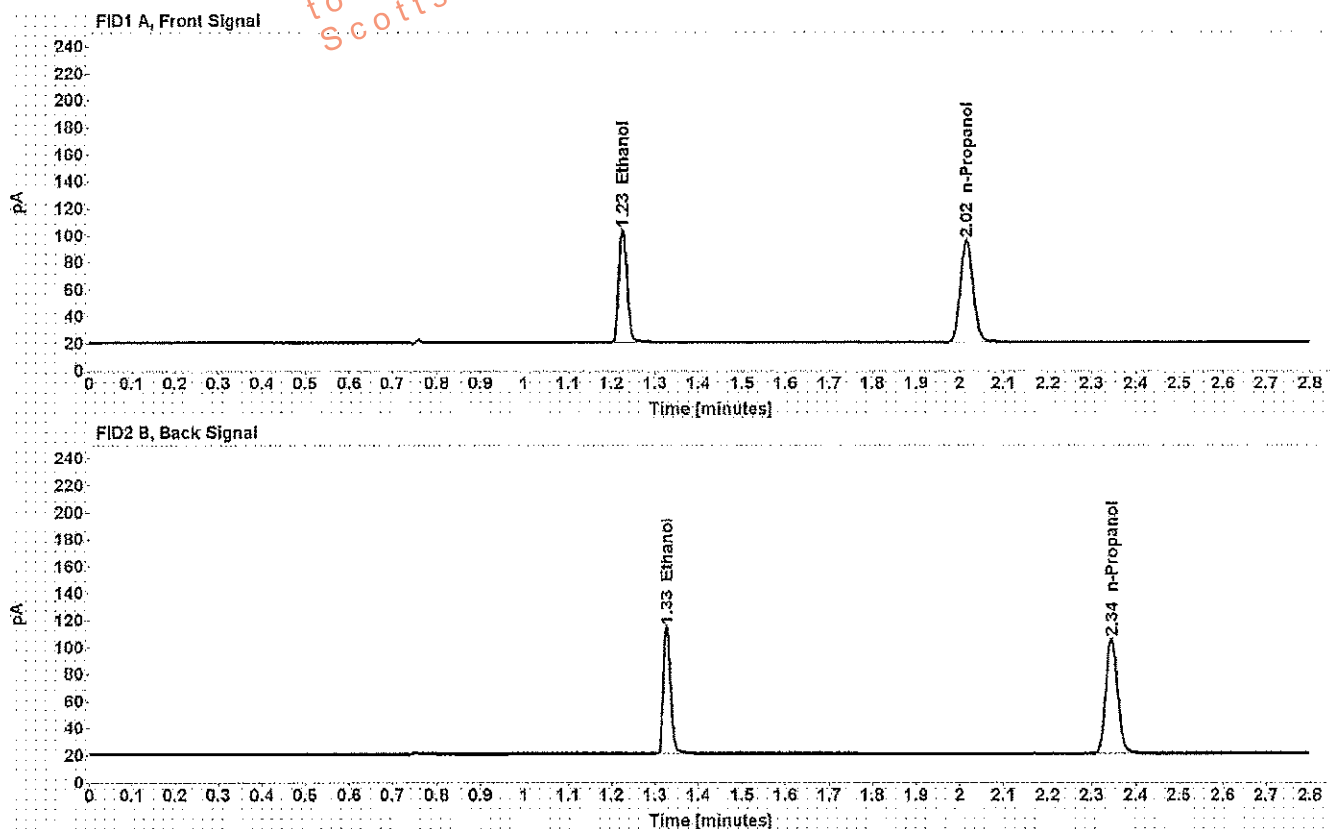


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Cerilliant FN11191402
Injection date: 7/5/2016 4:22:28 PM
Method: ethanol quant.M
Instrument: US14173023 CN14160045
Data file: C:\Chem32\1\Data\05Jul16\4.D

Item number:
Vial: 4
Sequence: 05Jul16.S
Analyst: Langan *M*

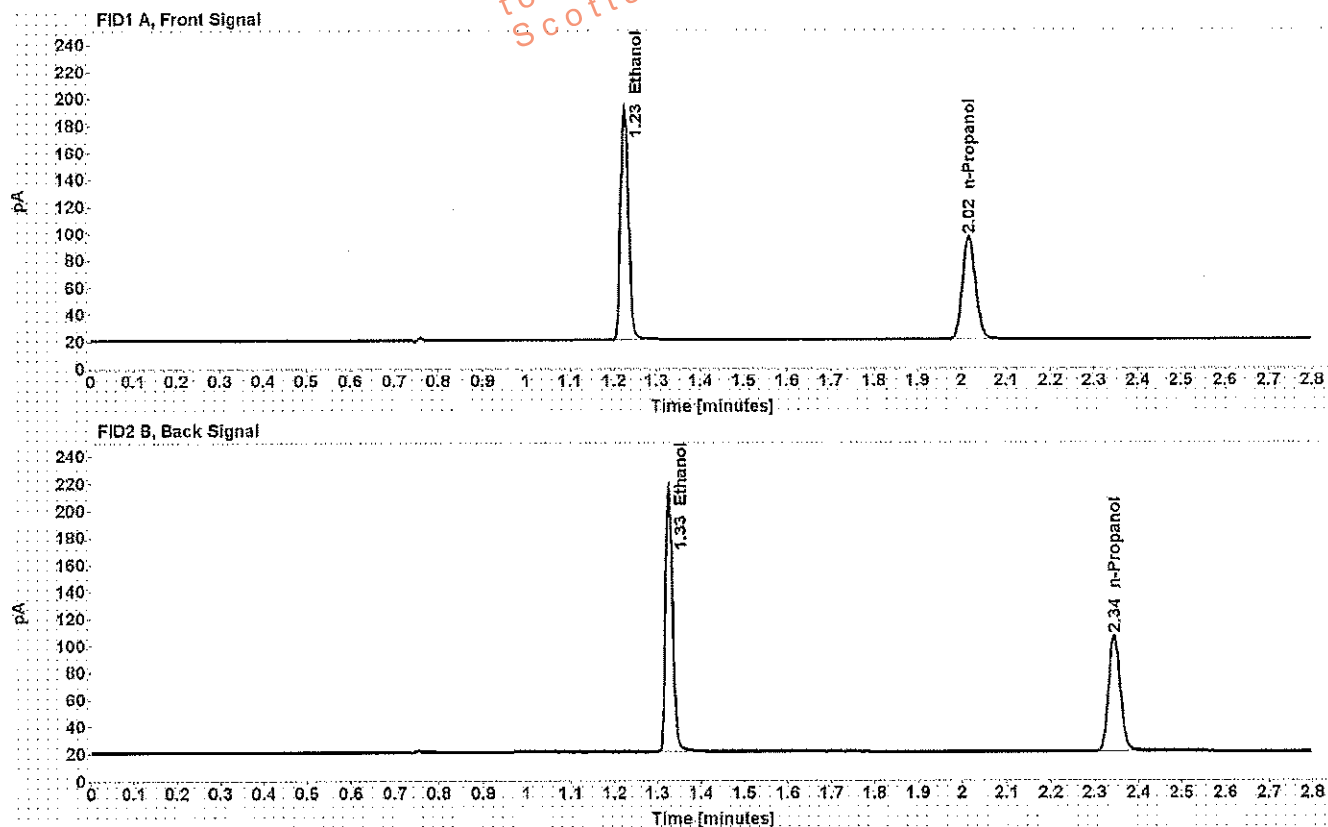


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215
Injection date: 7/5/2016 4:26:28 PM
Method: ethanol quant.M
Instrument: US14173023 CN14160045
Data file: C:\Chem32\11\Data\05Jul16\5.D

Item number:
Vial: 5
Sequence: 05Jul16.S
Analyst: Langan *ML*

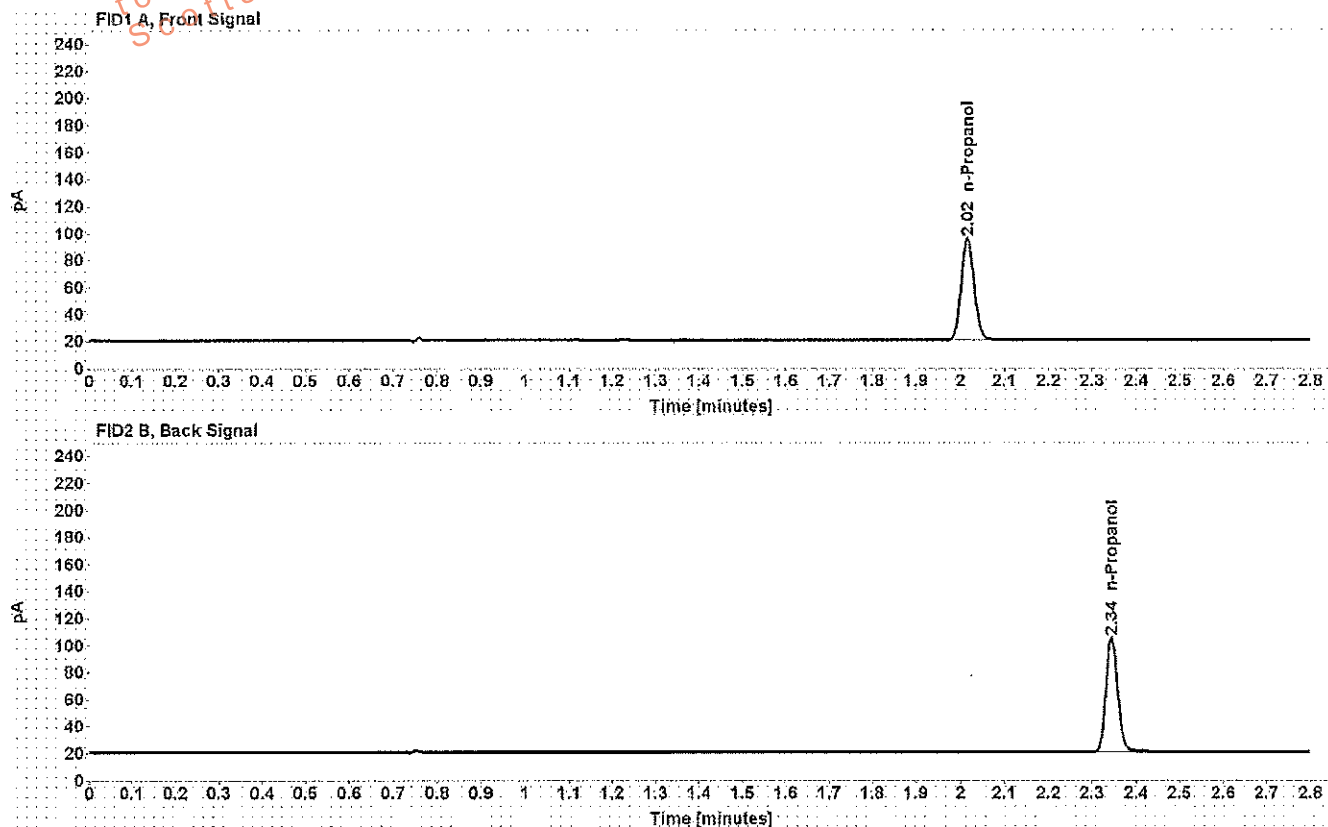


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: volatiles mix 030916 ASL
Injection date: 7/5/2016 4:30:29 PM
Method: ethanol quant.M
Instrument: US14173023-CN14160045
Data file: C:\Chem3211\Data\05Jul16\6.D

Item number:
Vial: 6
Sequence: 05Jul16.S
Analyst: Langan

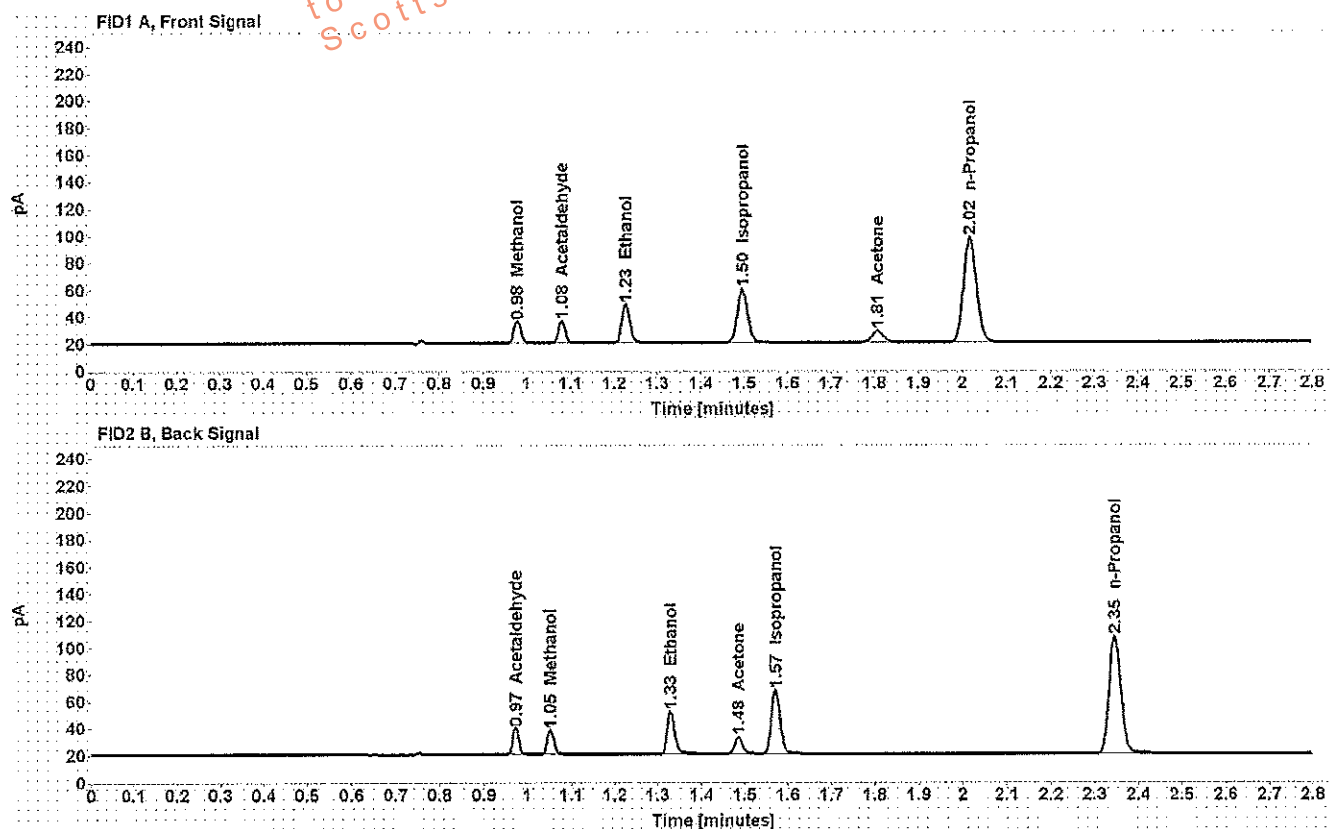


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

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

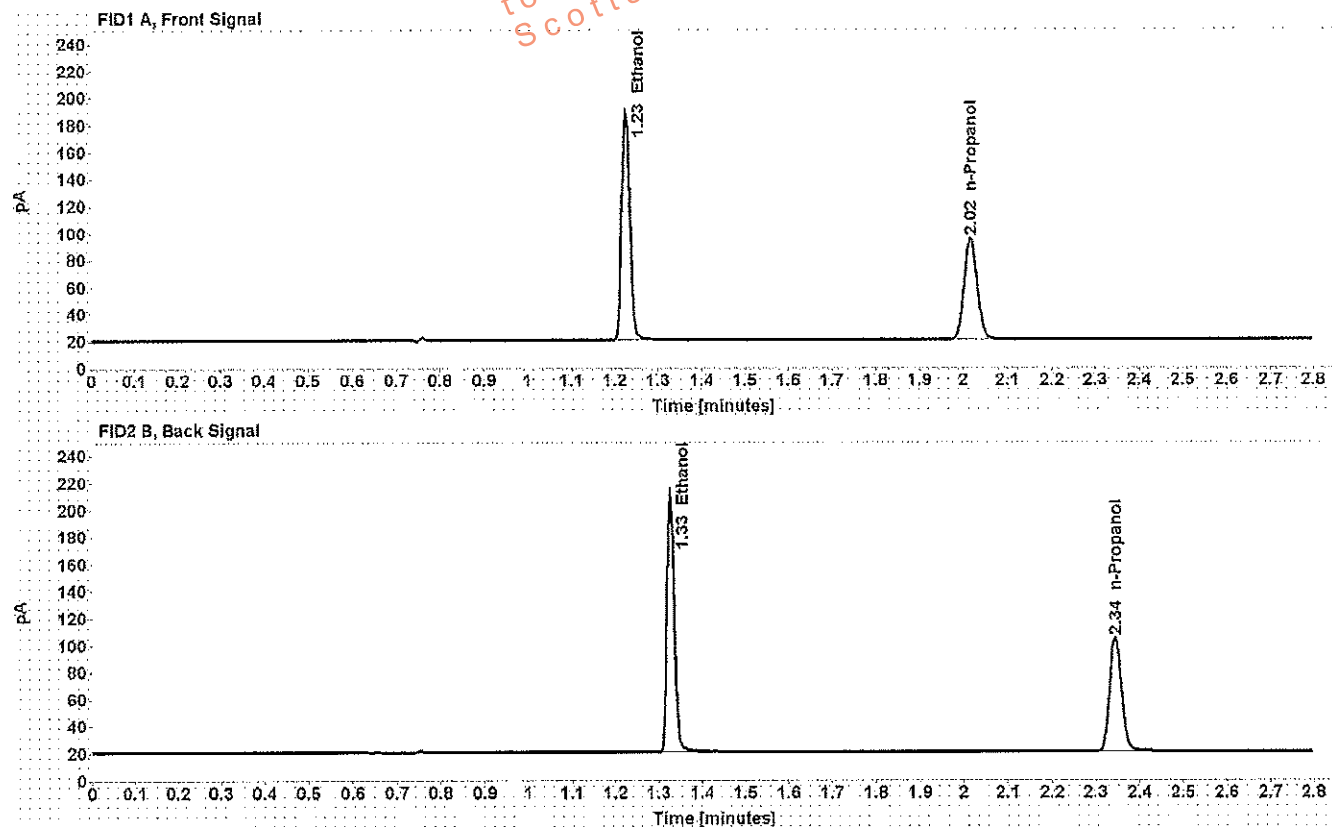


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B
Injection date: 7/5/2016 4:38:43 PM
Method: ethanol quant.M
Instrument: US14173023 CN14160045
Data file: C:\Chem32\11\Data\05Jul16\8.D

Item number:
Vial: 8
Sequence: 05Jul16.S
Analyst: Langan M

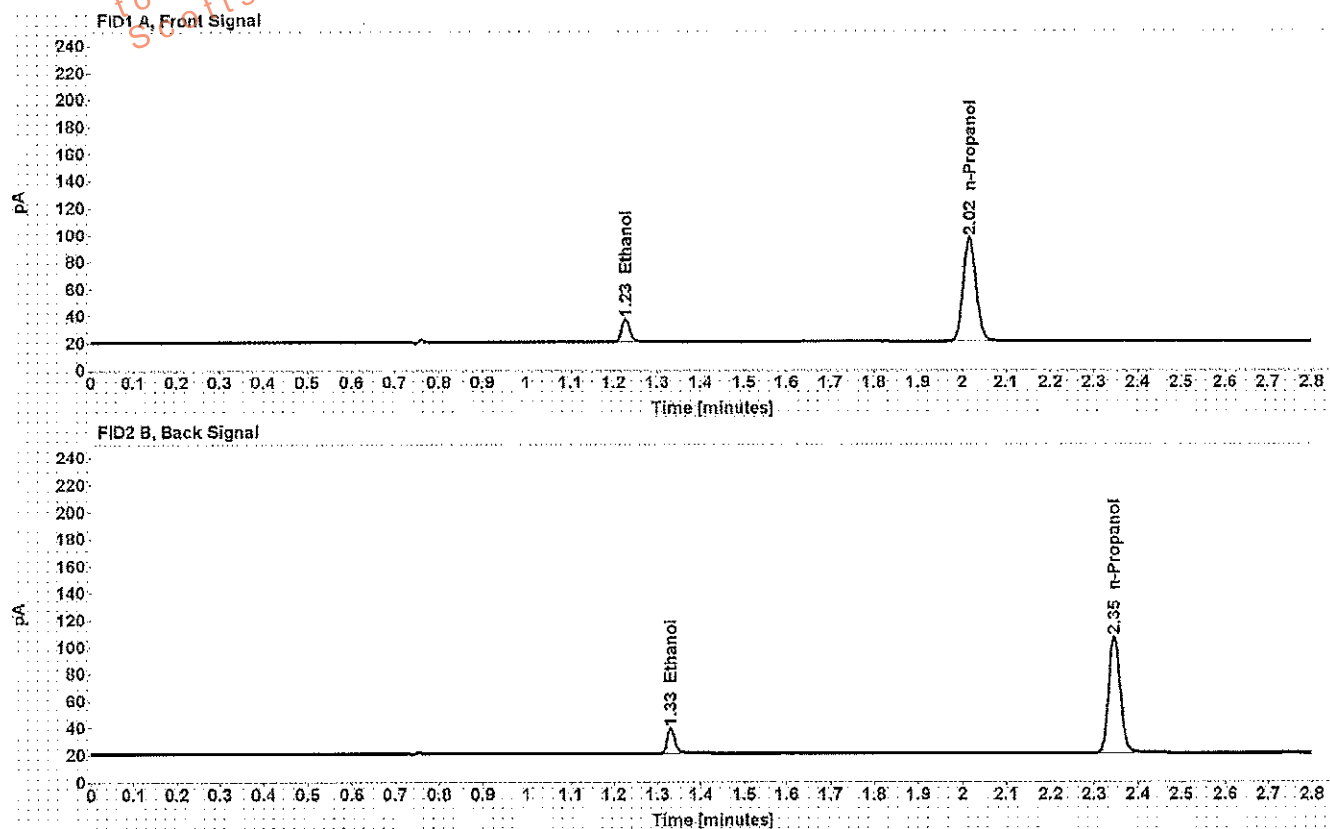


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6 **Item number:**
Injection date: 7/5/2016 4:42:44 PM **Vial:** 9
Method: ethanol quant.M **Sequence:** 05Jul16.S
Instrument: US14173023-CN14160045 **Analyst:** Langan M
Data file: C:\Chem32(1)\Data\05Jul16\9.D

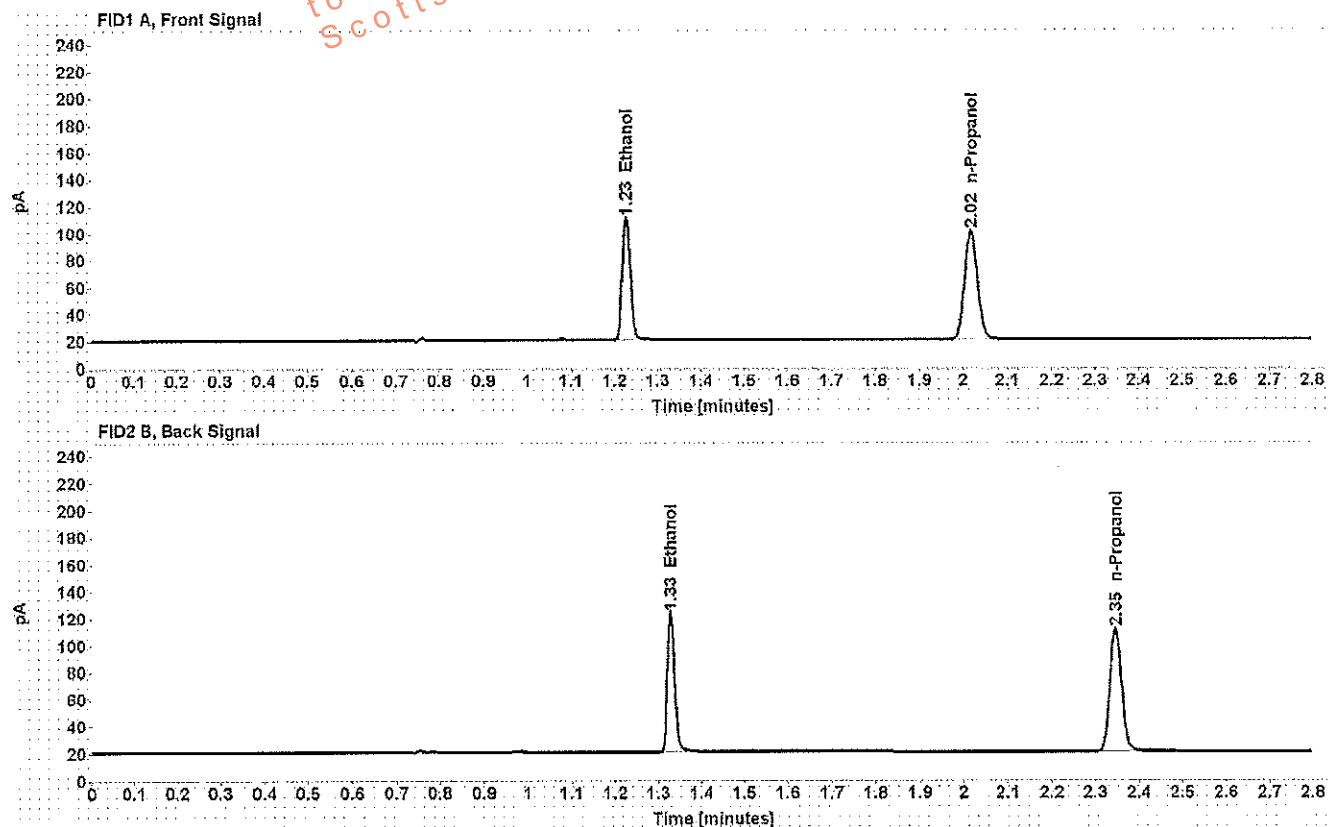


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

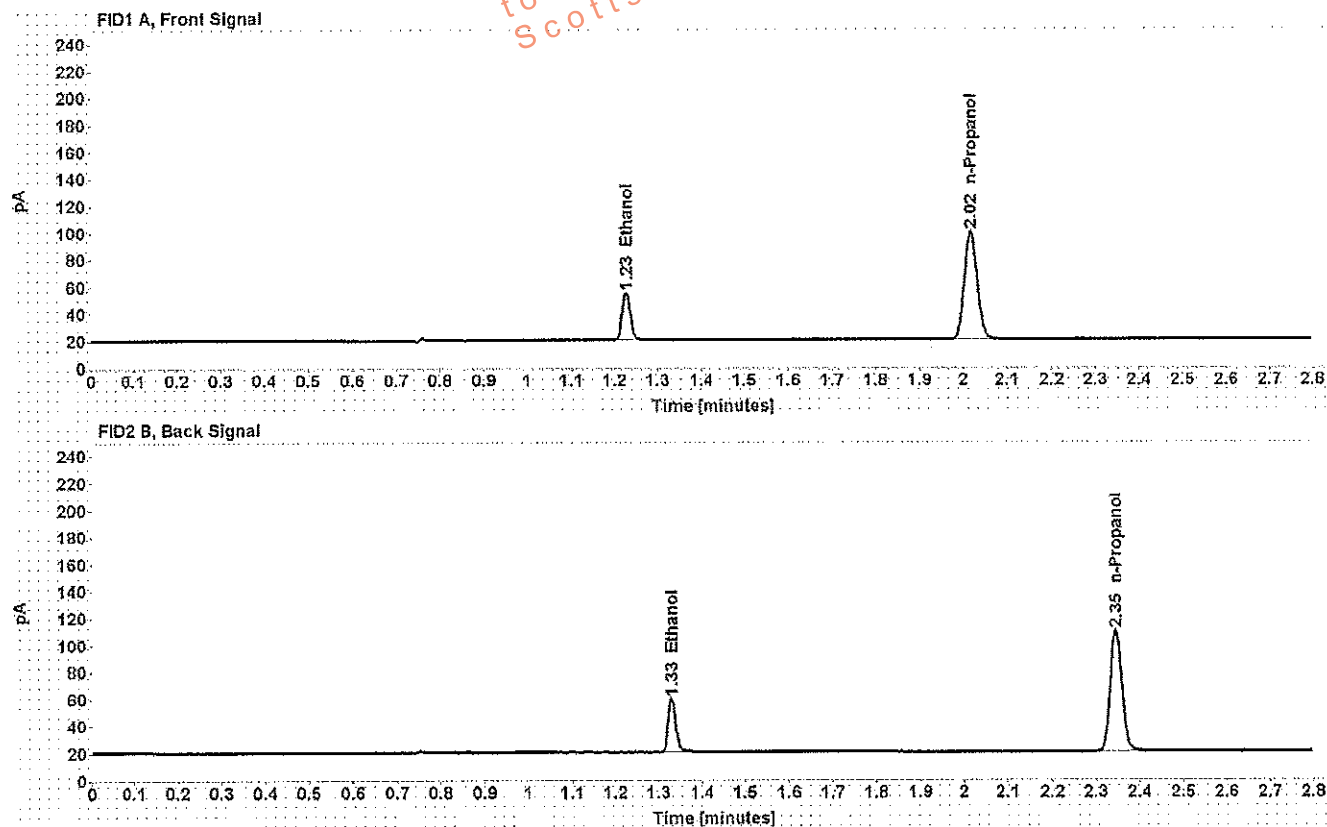


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Sample: 0.150 Lipomed 11012012-C Item number:
 Injection date: 7/5/2016 6:11:43 PM Vial: 31
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan M
 Data file: C:\Chem3211\Data\05Jul16\31.D

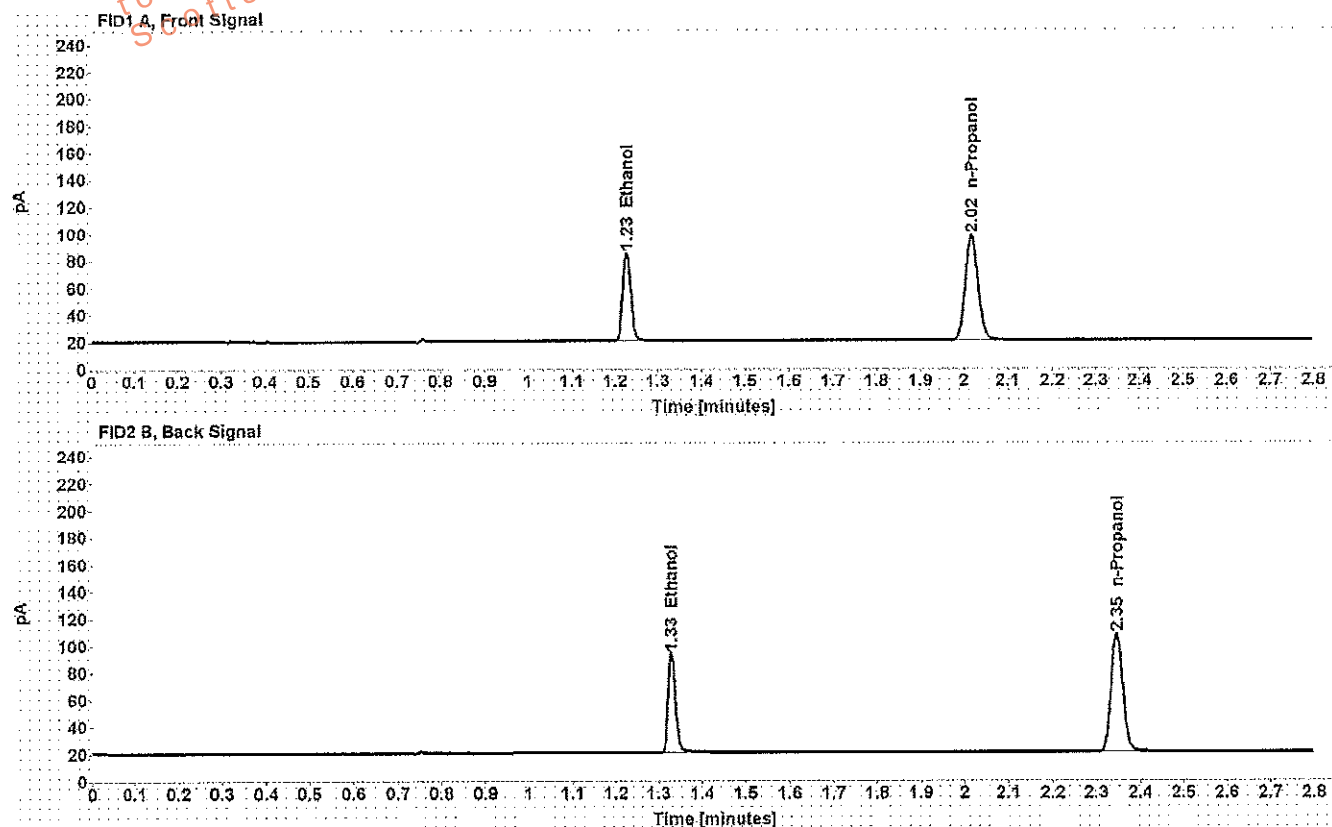


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 05012012-C
Injection date: 7/5/2016 6:55:59 PM
Method: ethanol quant.M
Instrument: US14173023 CN14160045
Data file: C:\Chem32\11Data\05Jul16\42.D
Item number:
Vial: 42
Sequence: 05Jul16.S
Analyst: Langan *ML*

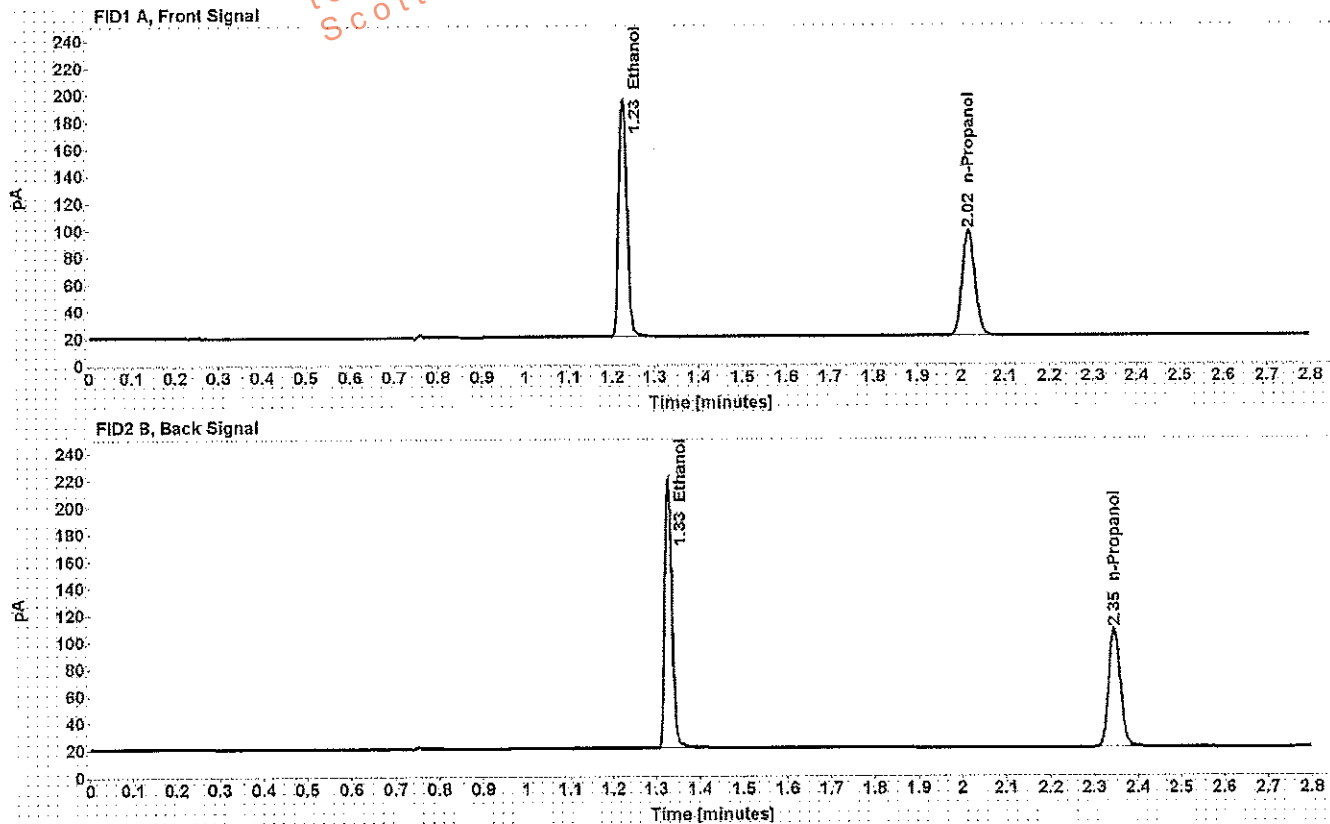


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.04 Lipomed 30112011-B
 Injection date: 7/5/2016 7:00:13 PM
 Method: ethanol quant.M
 Instrument: US14173023 CN14160045
 Data file: C:\Chem32\1\Data\05Jul16\43.B

Item number:
 Vial: 43
 Sequence: 05Jul16.S
 Analyst: Langan *ML*

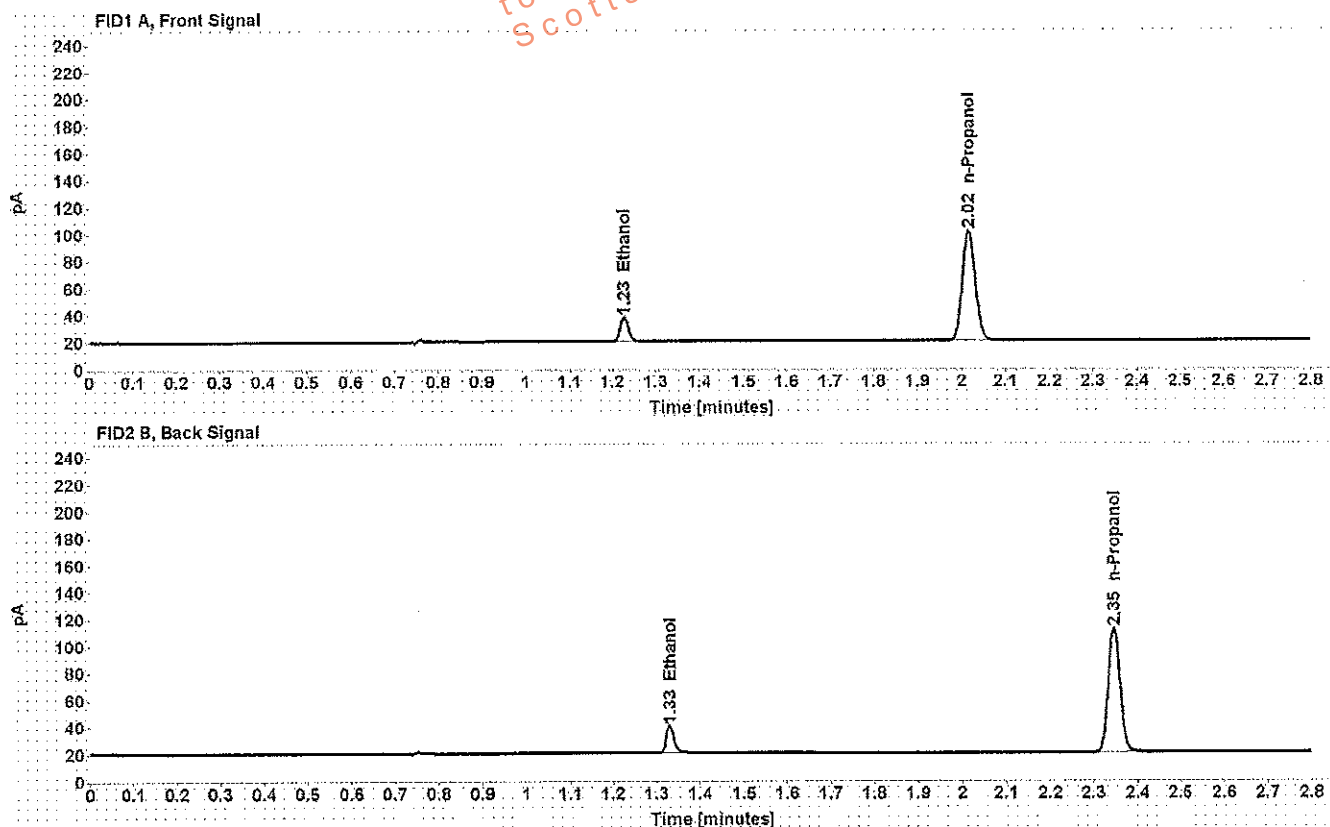


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 402101060/6
Injection date: 7/5/2016 7:04:13 PM
Method: ethanol quant.M
Instrument: US14173023 CN14160045
Data file: C:\Chem32\11\Data\05Jul16\44.D
Item number:
Vial: 44
Sequence: 05Jul16.S
Analyst: Langan *ML*

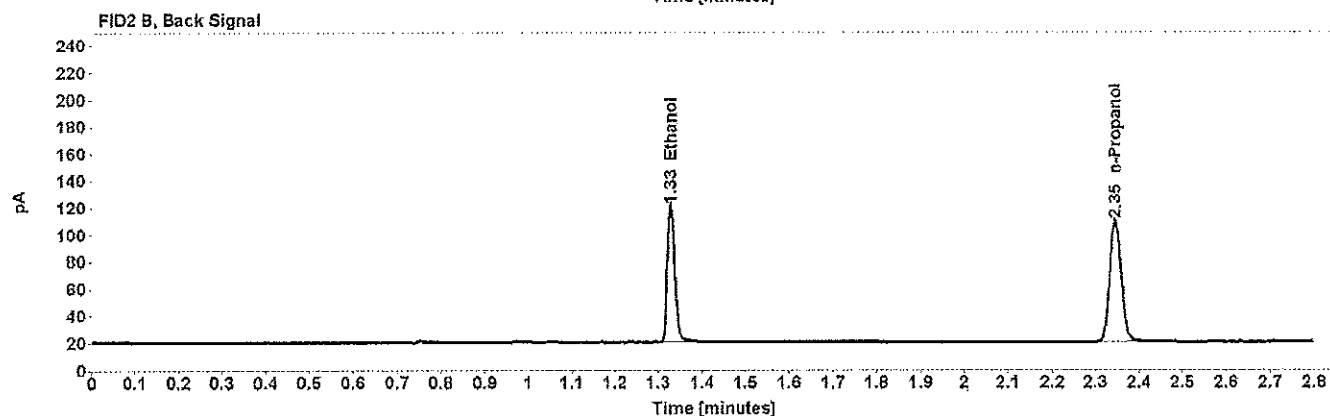
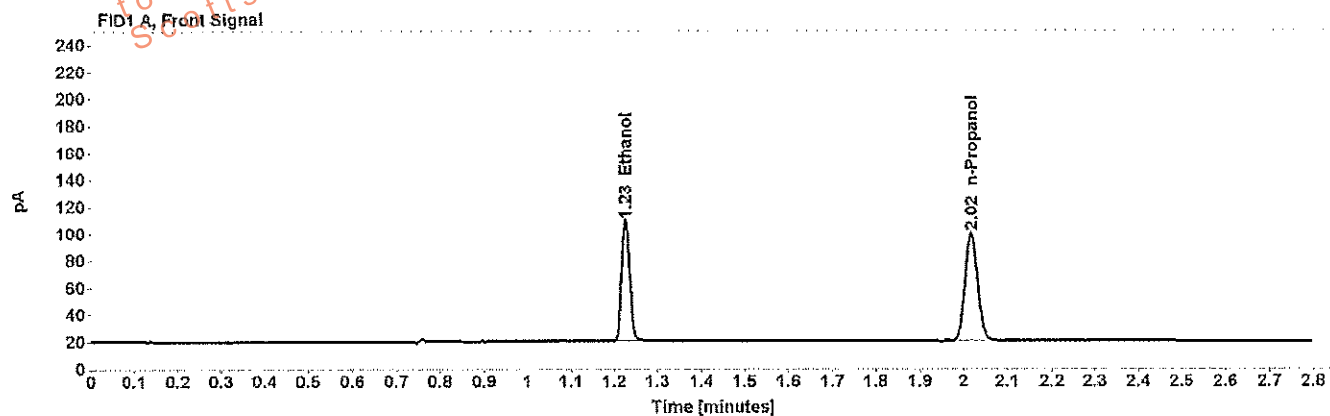


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 110215 **Item number:**
Injection date: 7/5/2016 7:08:14 PM **Vial:** 45
Method: ethanol quant.M **Sequence:** 05Jul16.S
Instrument: US14173023-CN14160045 **Analyst:** Langan *ML*
Data file: C:\Chem32\11Data\05Jul16\45.D

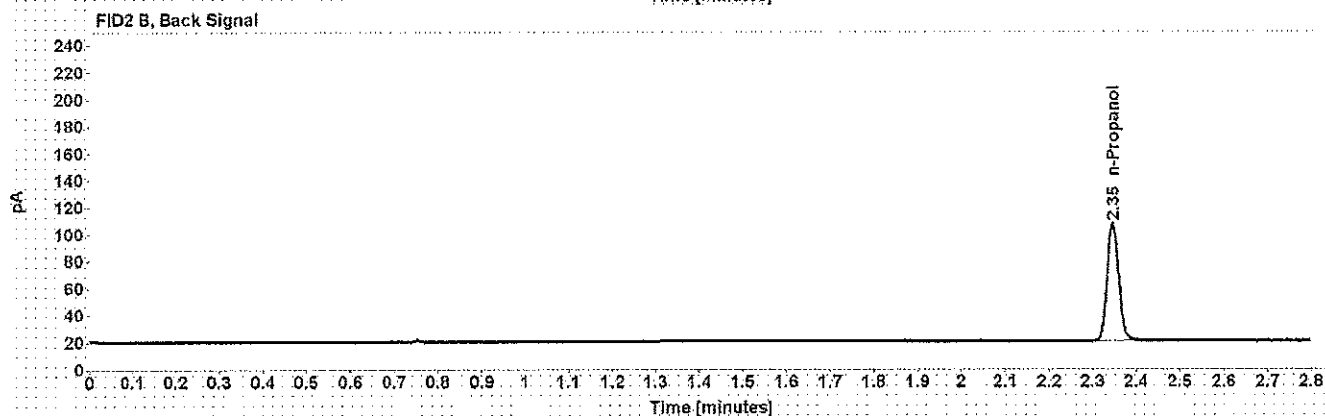
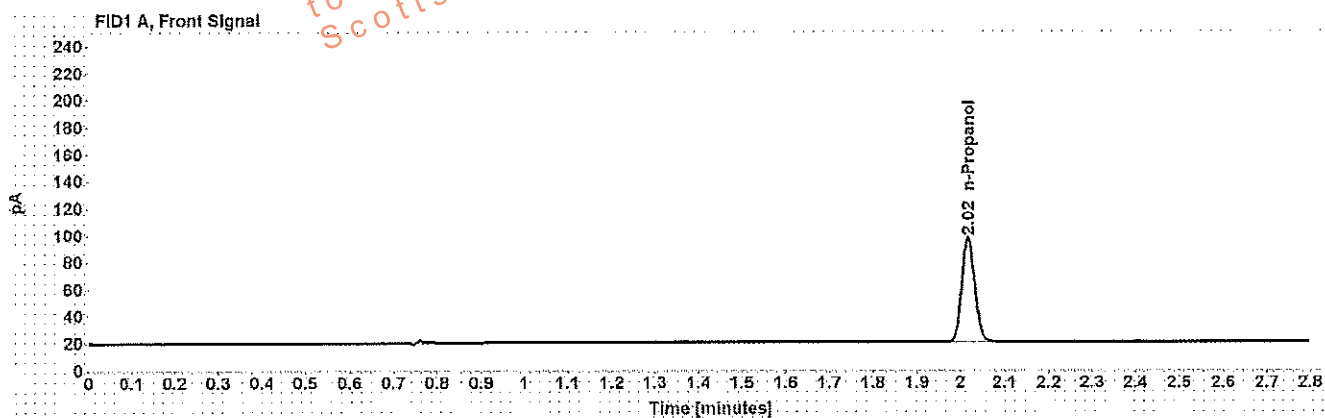


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
0.2145	0.21520	0.33	0.00070
0.2802	0.27855	0.59	0.00165
0.1760	0.17640	0.23	0.00040
0.2517	0.25315	0.57	0.00145
0.1109	0.10945	2.17	0.00235

[illegible]

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

AM

SEQUENCE TABLE:

=====

Line	: 1
Location	: 1
Sample Information	: 0.02
Sample Name	: 0.02 Cerilliant FN08101401
Method Name	: ethanol quant

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Line	: 2
Location	: 2
Sample Information	: 0.1
Sample Name	: 0.10 Cerilliant FN06181501
Method Name	: ethanol quant

=====

=====

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

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=====

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

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

=====

=====

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

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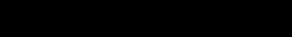
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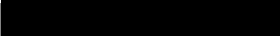
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Method Name : ethanol quant

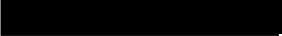
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Sample Name : 0.04 Lipomed 30112011-B
Method Name : ethanol quant

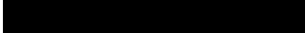
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Sample Name : 0.20 ACQ 402101060/6
Method Name : ethanol quant

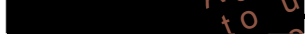
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Sample Information : 
Sample Name : 
Method Name : ethanol quant

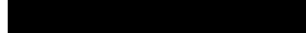
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Sample Information : 
Sample Name : 
Method Name : ethanol quant

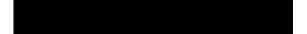
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Sample Information : 
Sample Name : 
Method Name : ethanol quant

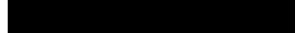
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Sample Information : 
Sample Name : 
Method Name : ethanol quant

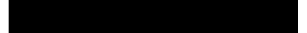
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Sample Information : 
Sample Name : 
Method Name : ethanol quant

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

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

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

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

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

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

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

AY

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

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

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

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

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

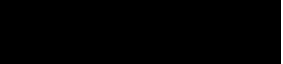
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Sample Information :
Sample Name :
Method Name : ethanol quant
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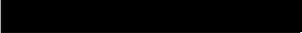
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Location : 27
Sample Information :
Sample Name :
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Dissemination is restricted to Criminal
Justice Agencies and authorized Non-C J.
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Scottsdale City Prosecutor

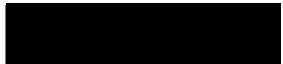
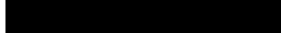
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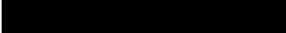
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Method Name : ethanol quant
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Method Name : ethanol quant
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Method Name : ethanol quant
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Sample Name : 
Method Name : ethanol quant
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Method Name : ethanol quant
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Method Name : ethanol quant

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Method Name : ethanol quant

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Sample Information : 
Sample Name : 
Method Name : ethanol quant

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Method Name : ethanol quant

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Method Name : ethanol quant

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Method Name : ethanol quant

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Sample Name : 0.40 Lipomed 05012012-C
Method Name : ethanol quant

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

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Method Name : ethanol quant

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Sample Information : Negative
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Method Name : ethanol quant
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Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 960692
Injection date: 7/5/2016 4:46:43 PM Vial: 10
Method: ethanol quant.M Sequence: 05Jul16.S
Instrument: US14173023 CN14160045 Analyst: Langan
Data file: C:\Chem321\16Data\05Jul16\10.D

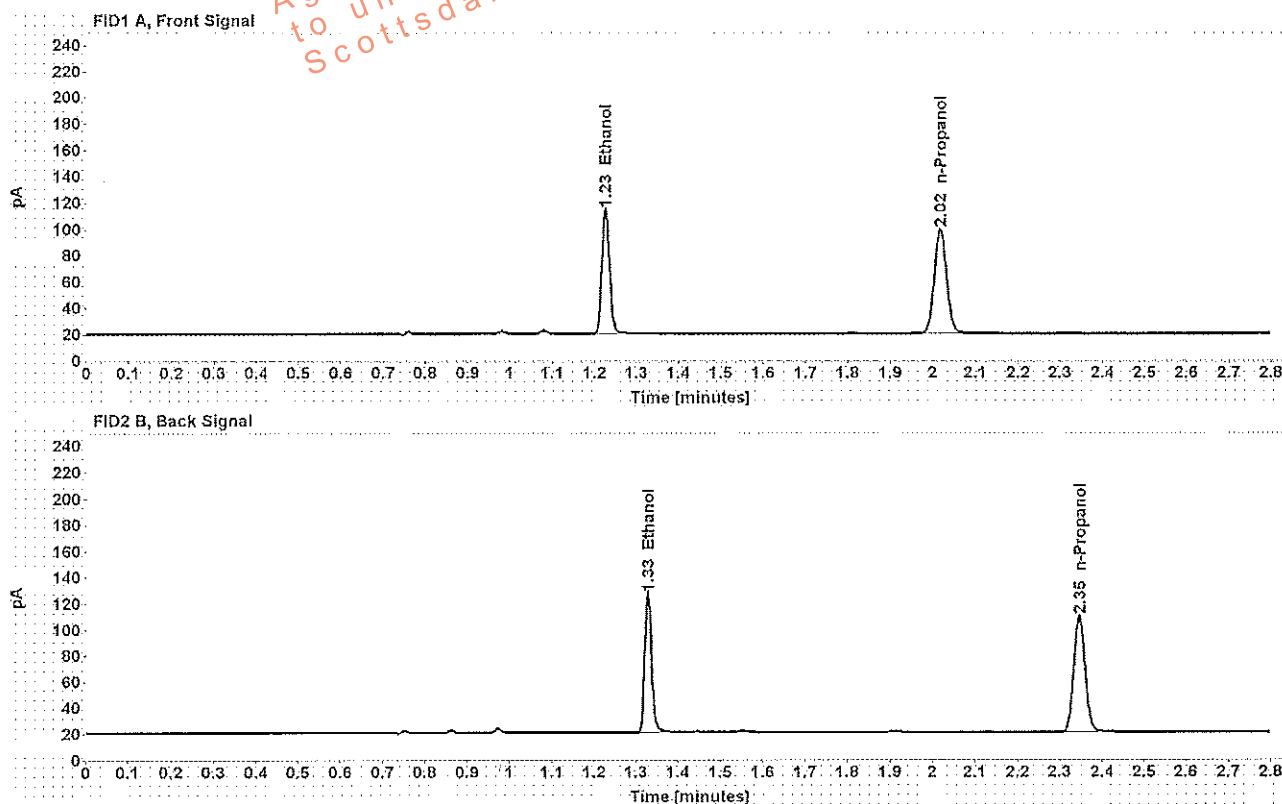


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

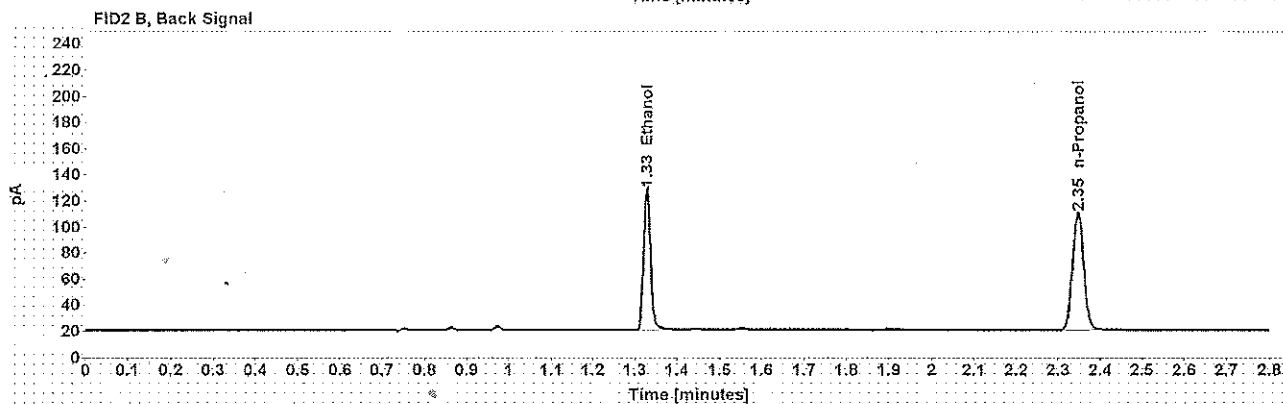
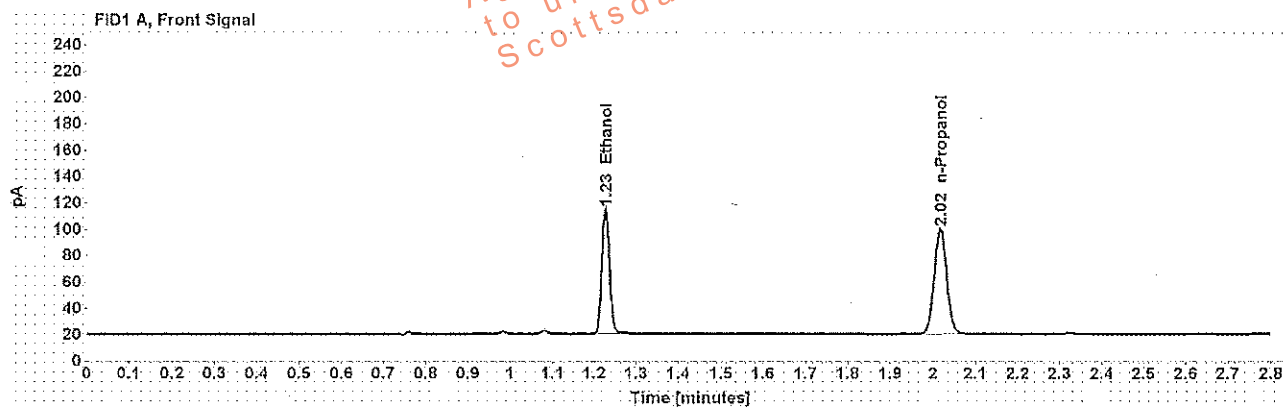


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1051552
 Injection date: 7/5/2016 4:54:44 PM Vial: 12
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\05Jul16\12.D

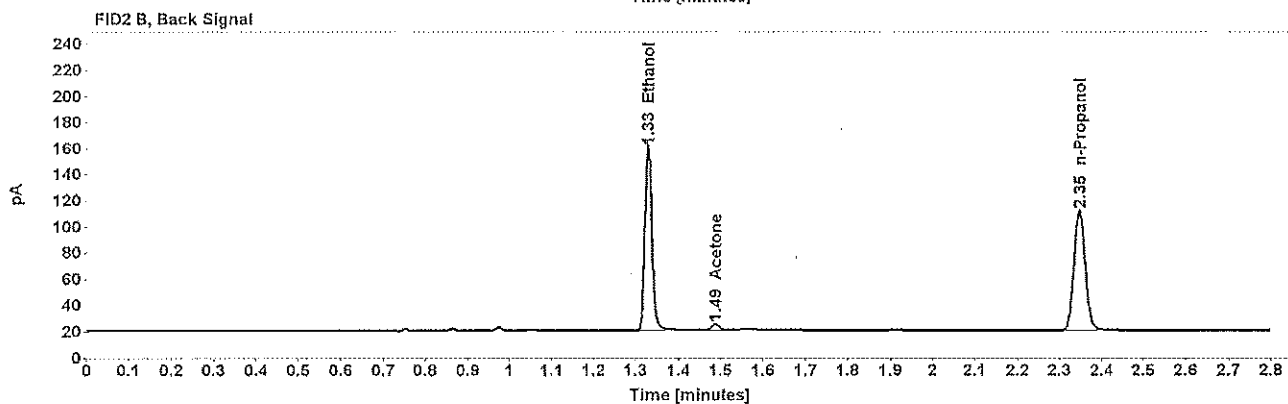
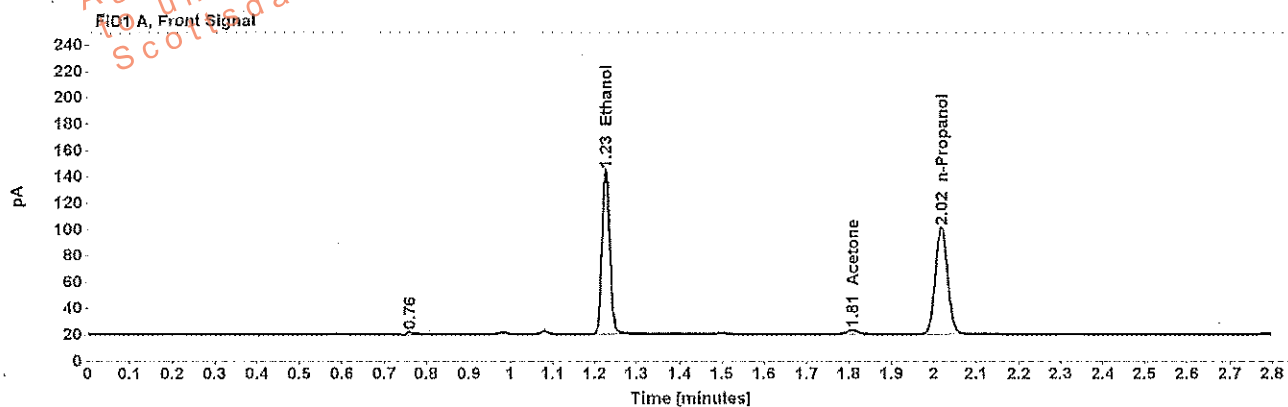


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:		Item number:	1051552
Injection date:	7/5/2016 4:58:59 PM	Vial:	13
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem32\11\Data\05Jul16\13.D		

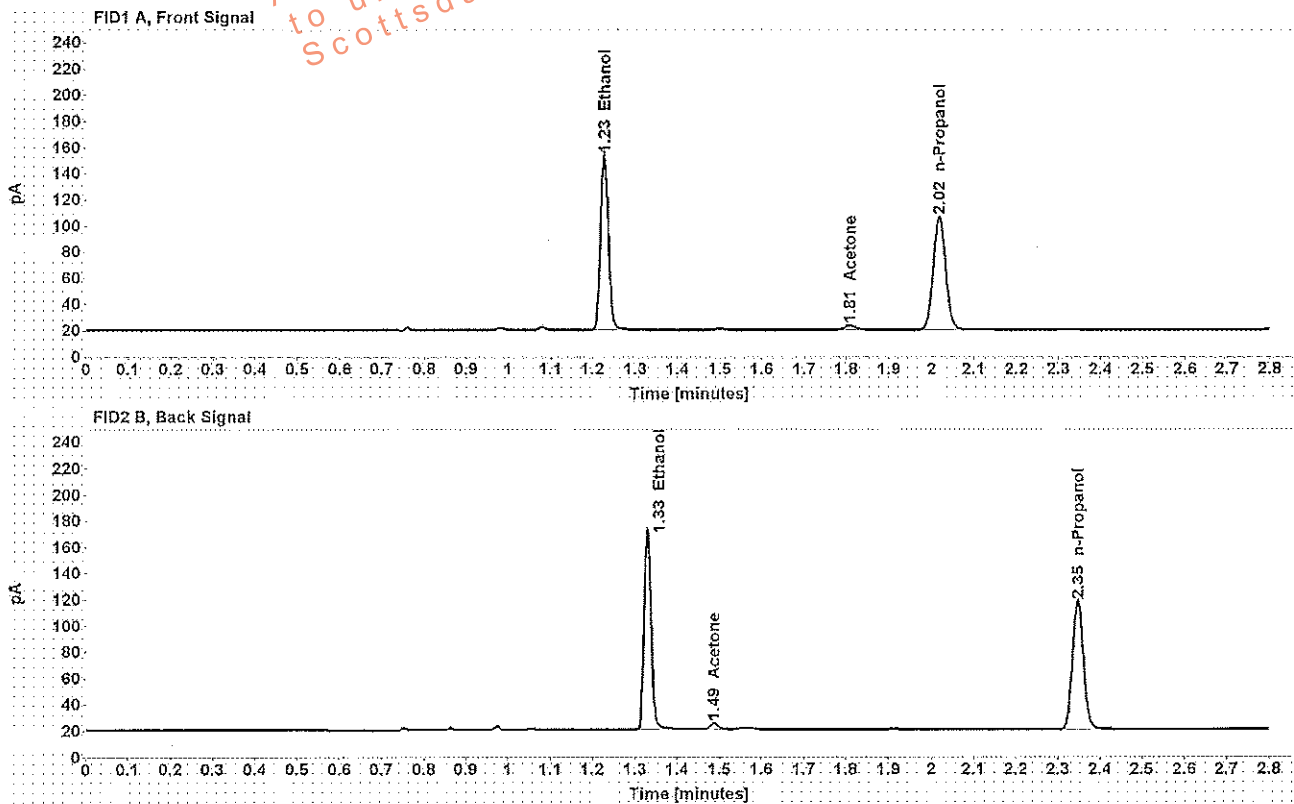


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

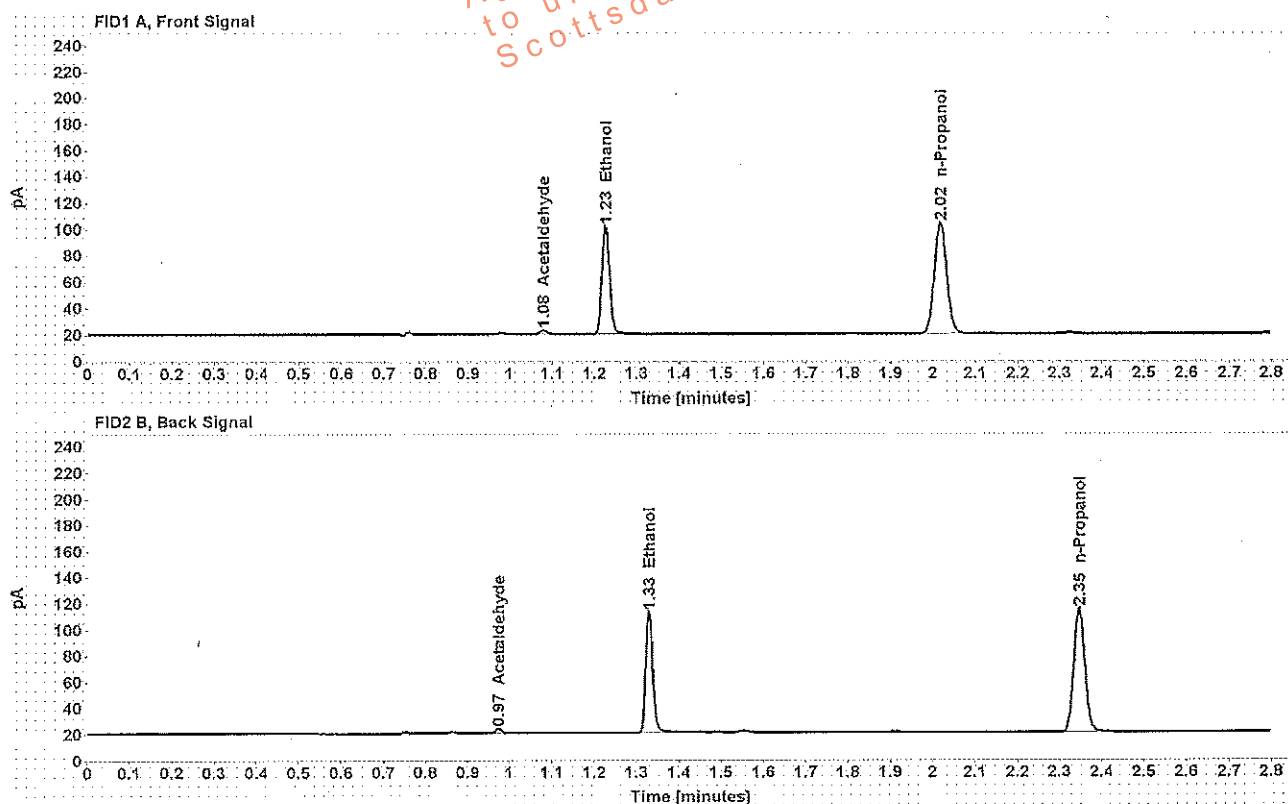


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:		Item number:	1071762
Injection date:	7/5/2016 5:06:58 PM	Vial:	15
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160046	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\15.D		

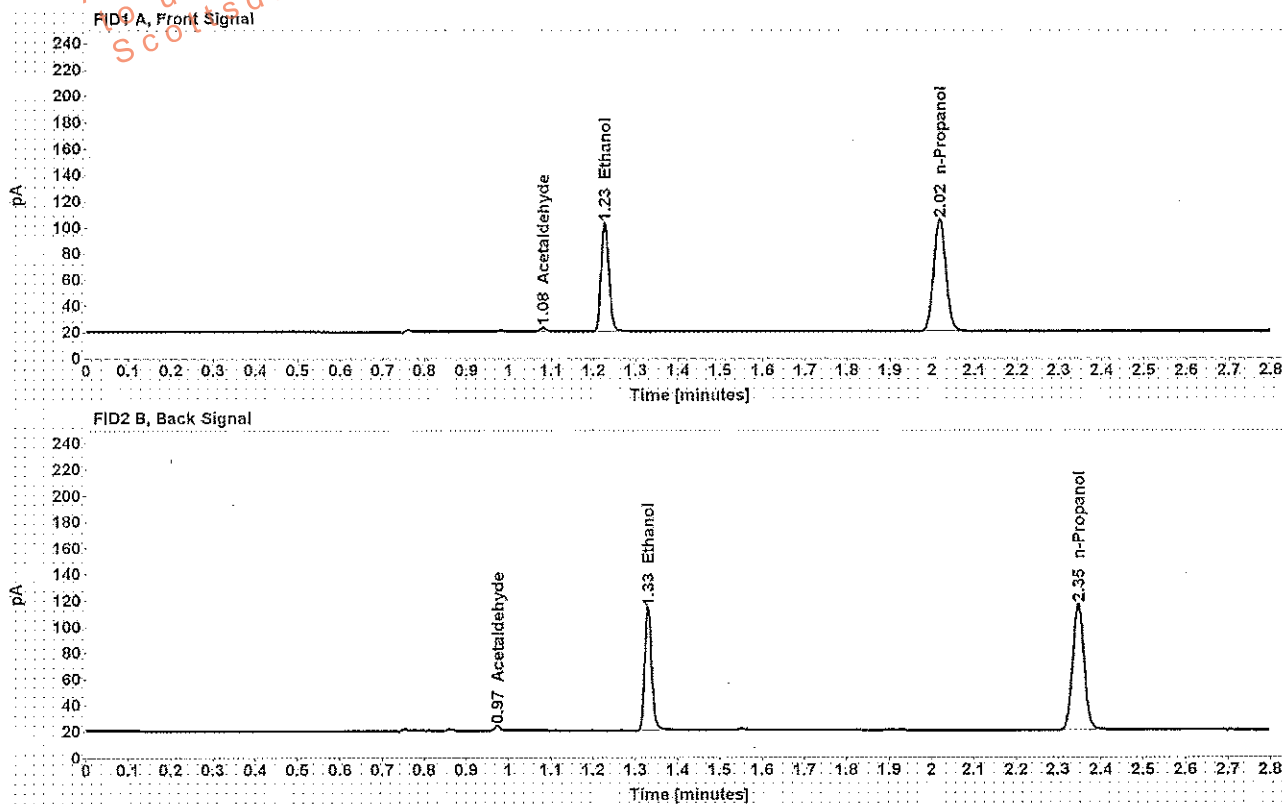


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

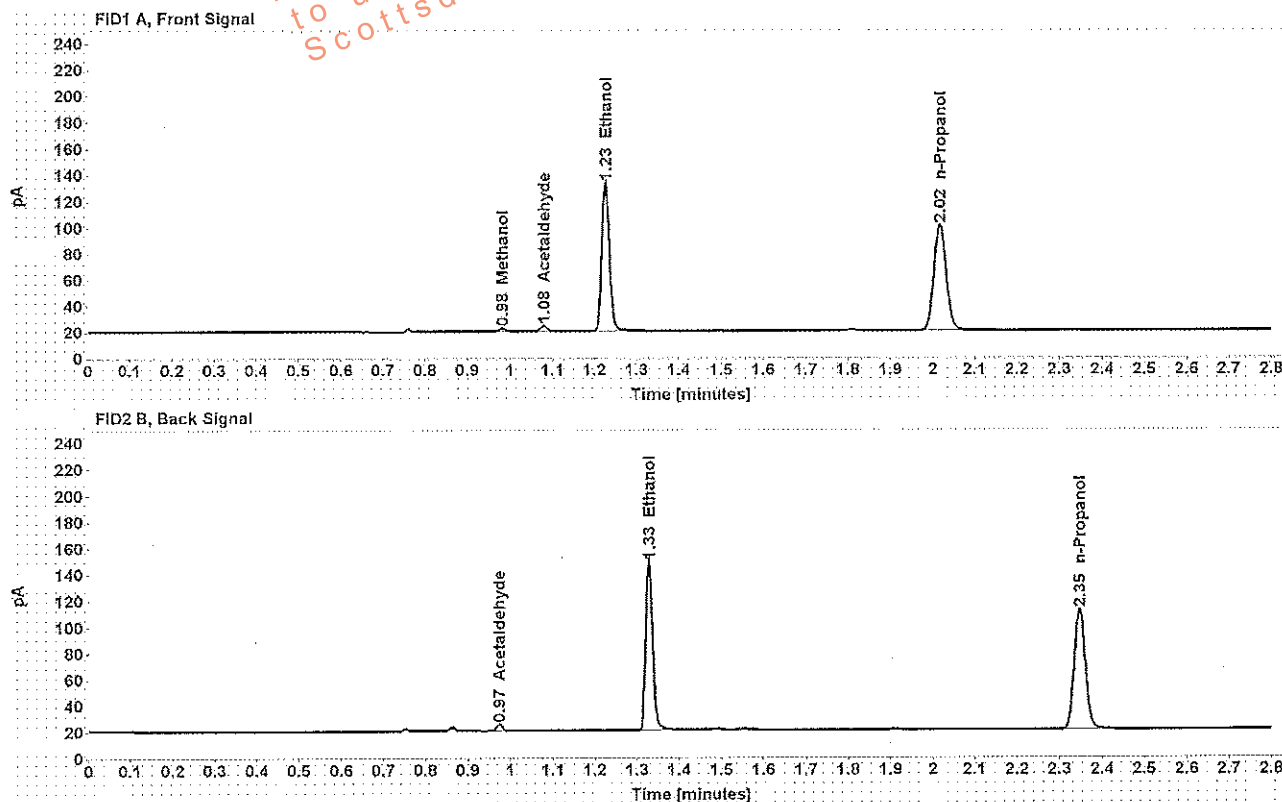


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

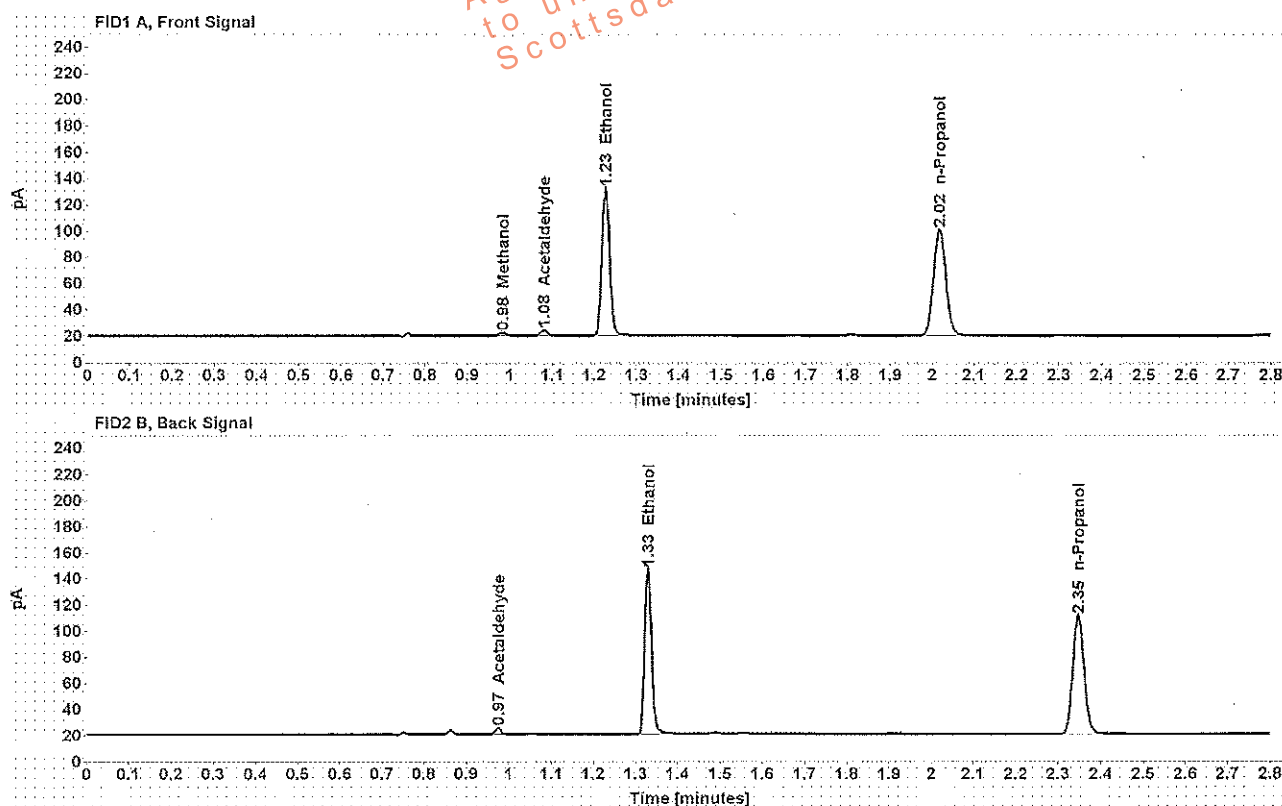


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

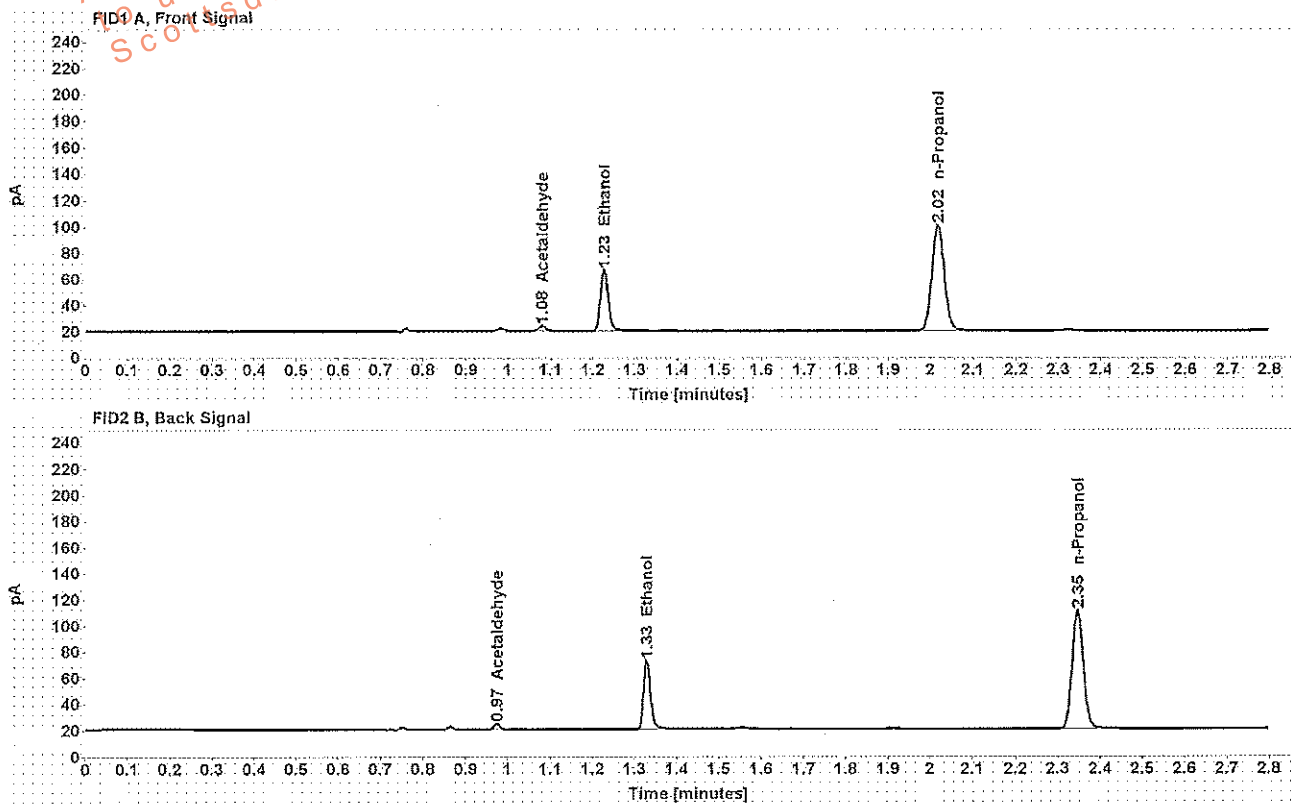


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

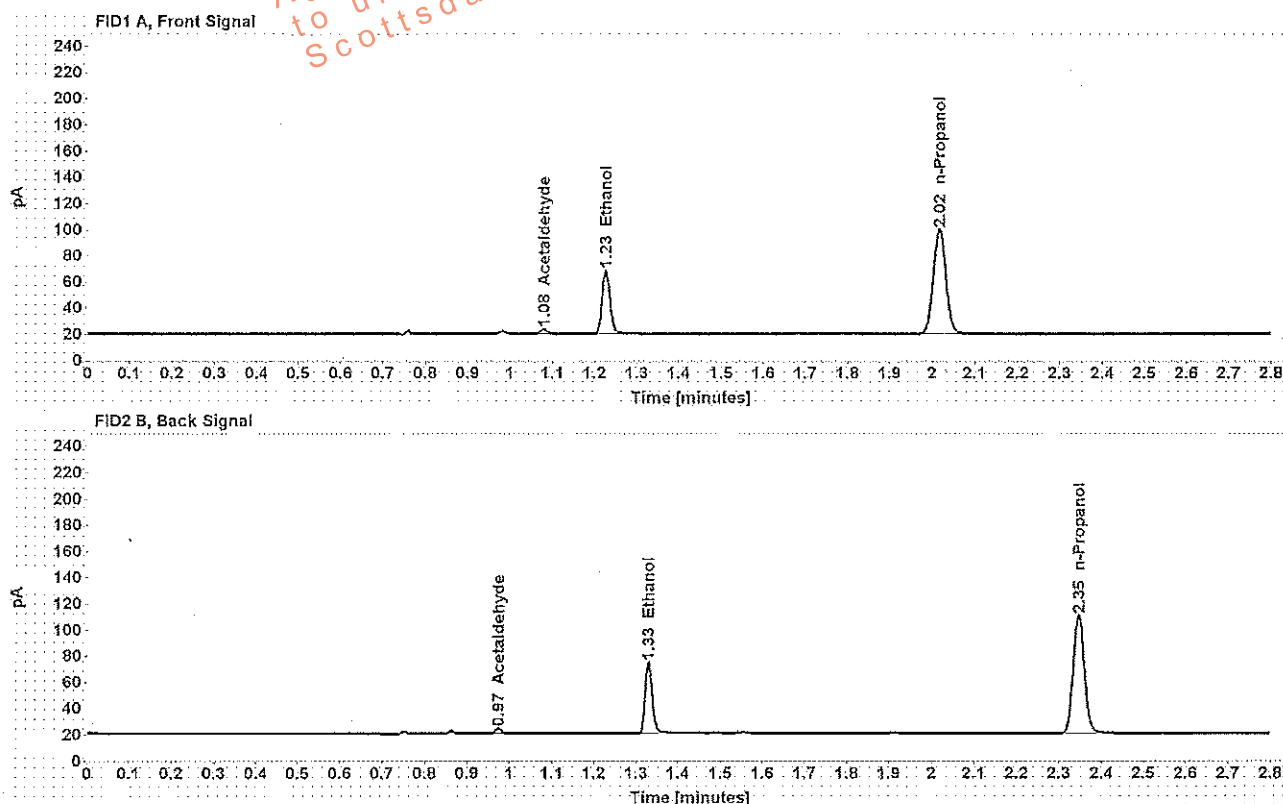


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

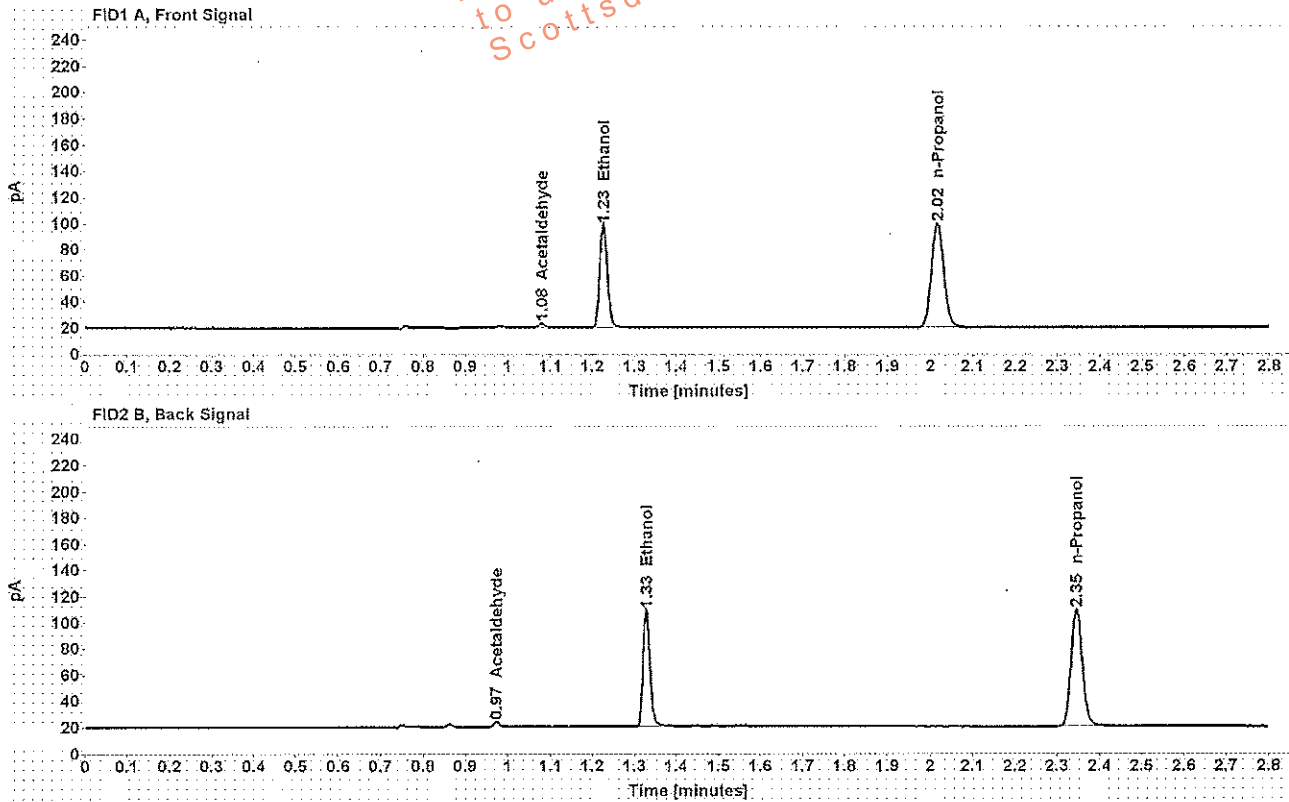


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1089121
Injection date: 7/5/2016 5:35:13 PM Vial: 22
Method: ethanol quant.M Sequence: 05Jul16.S
Instrument: US14173023 CN14160045 Analyst: Langan
Data file: C:\Chem32\1\1Data\05Jul16\22.D

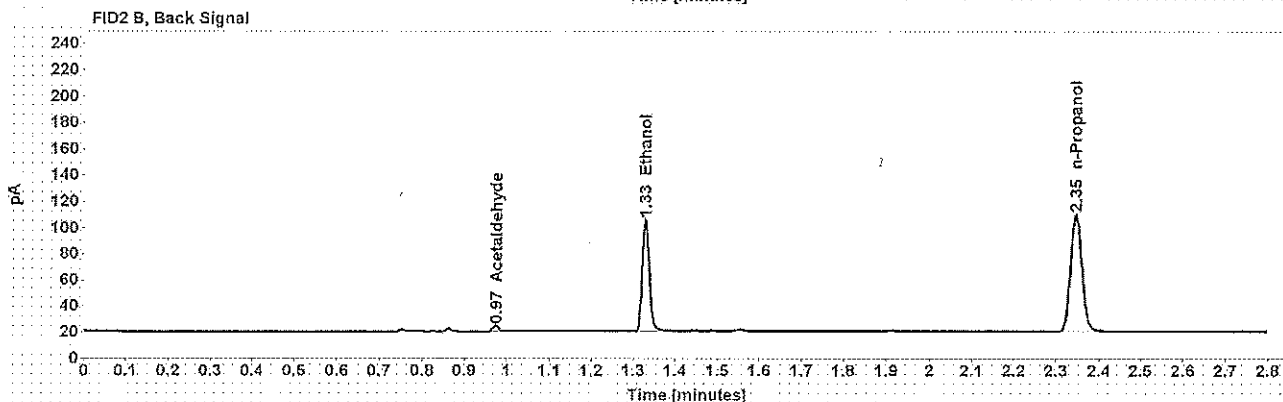
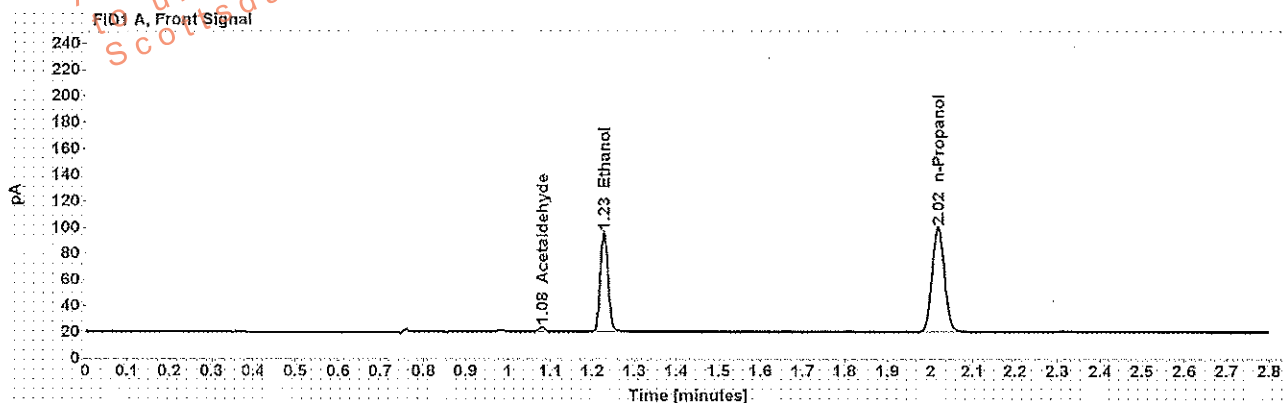


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1089436
Injection date: 7/5/2016 5:39:13 PM Vial: 23
Method: ethanol quant.M Sequence: 05Jul16.S
Instrument: US14173023 CN14160045 Analyst: Langan
Data file: C:\Chem3211\Data\05Jul16\23.D

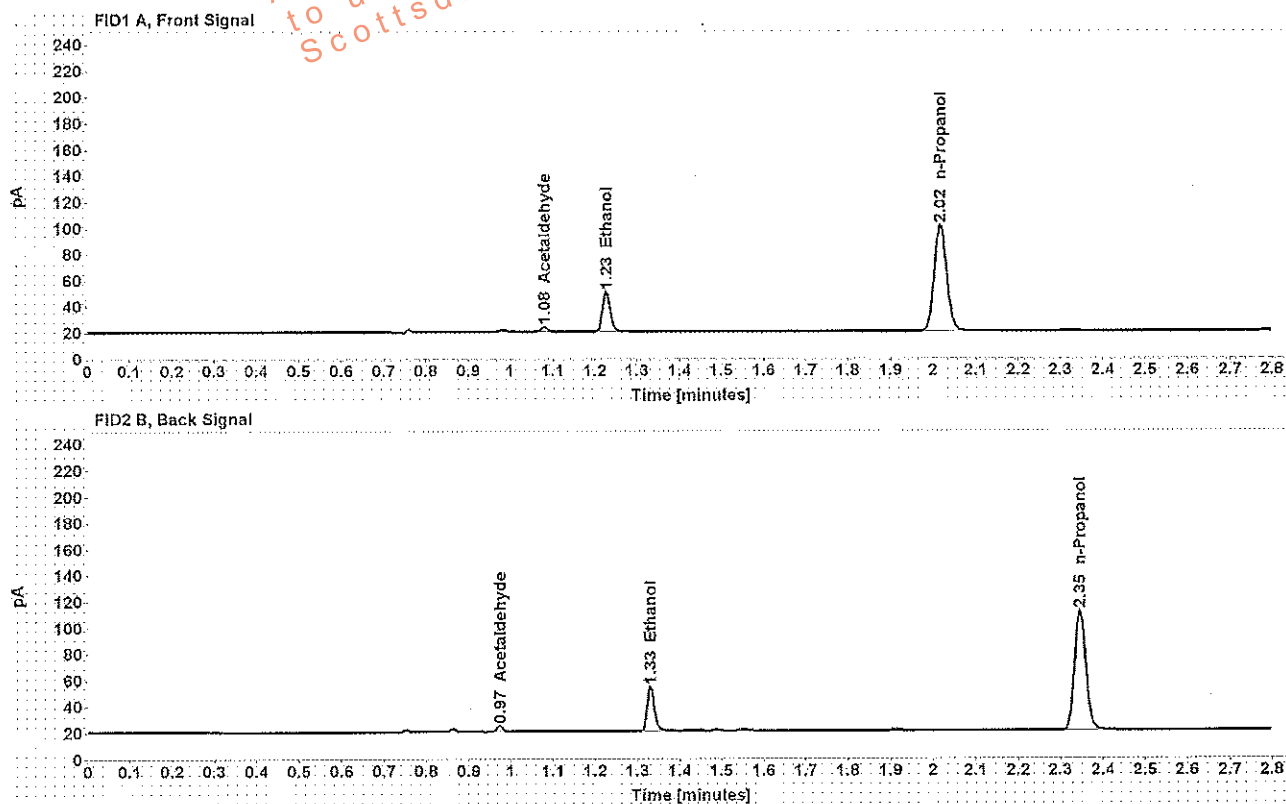


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX Item number: 1089436
 Injection date: 7/5/2016 5:43:13 PM Vial: 24
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\05Jul16\24.D

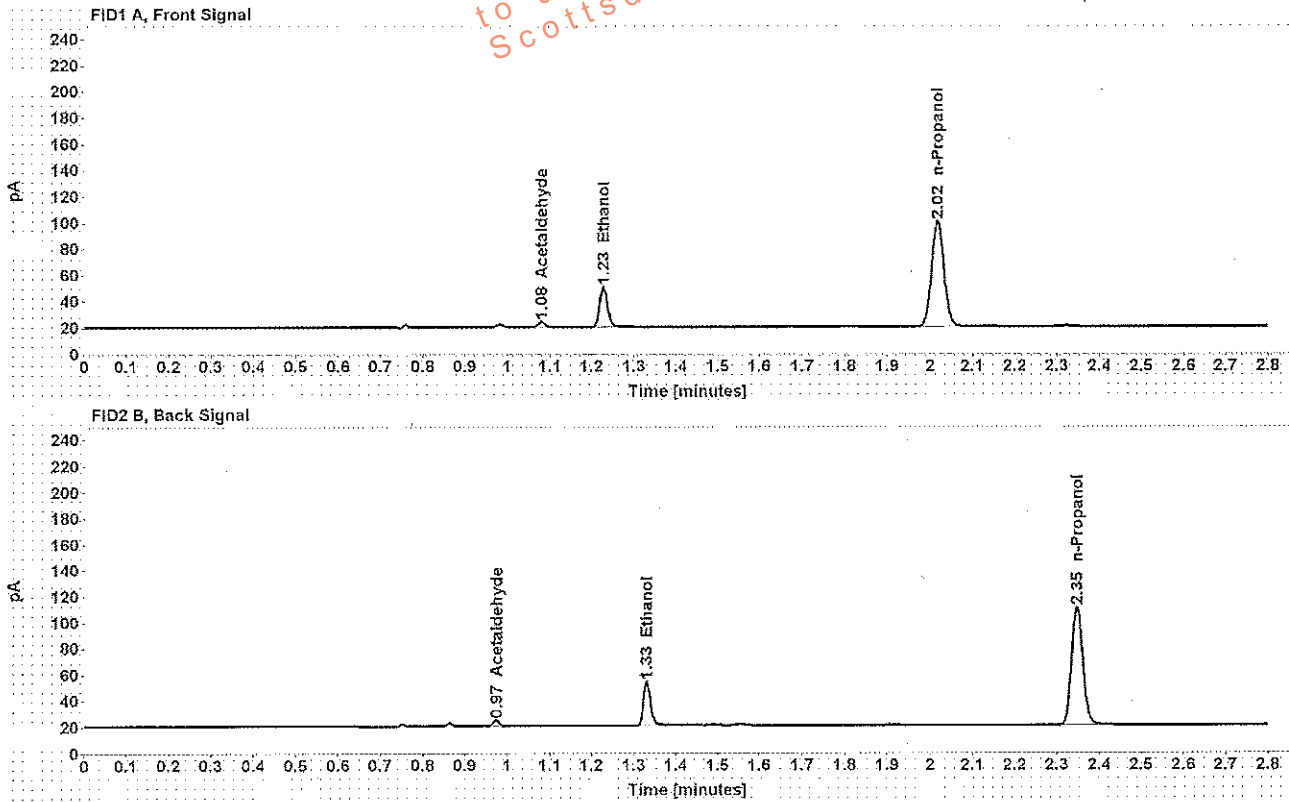


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

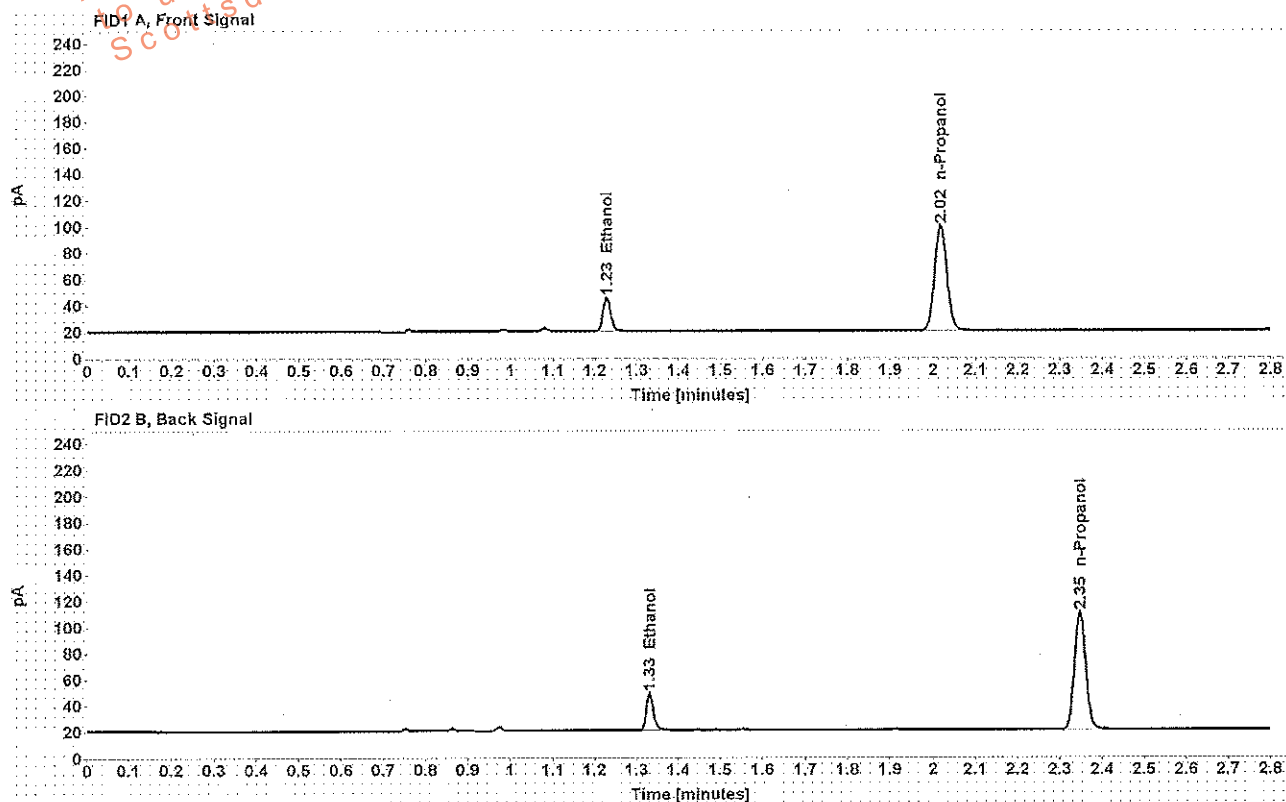


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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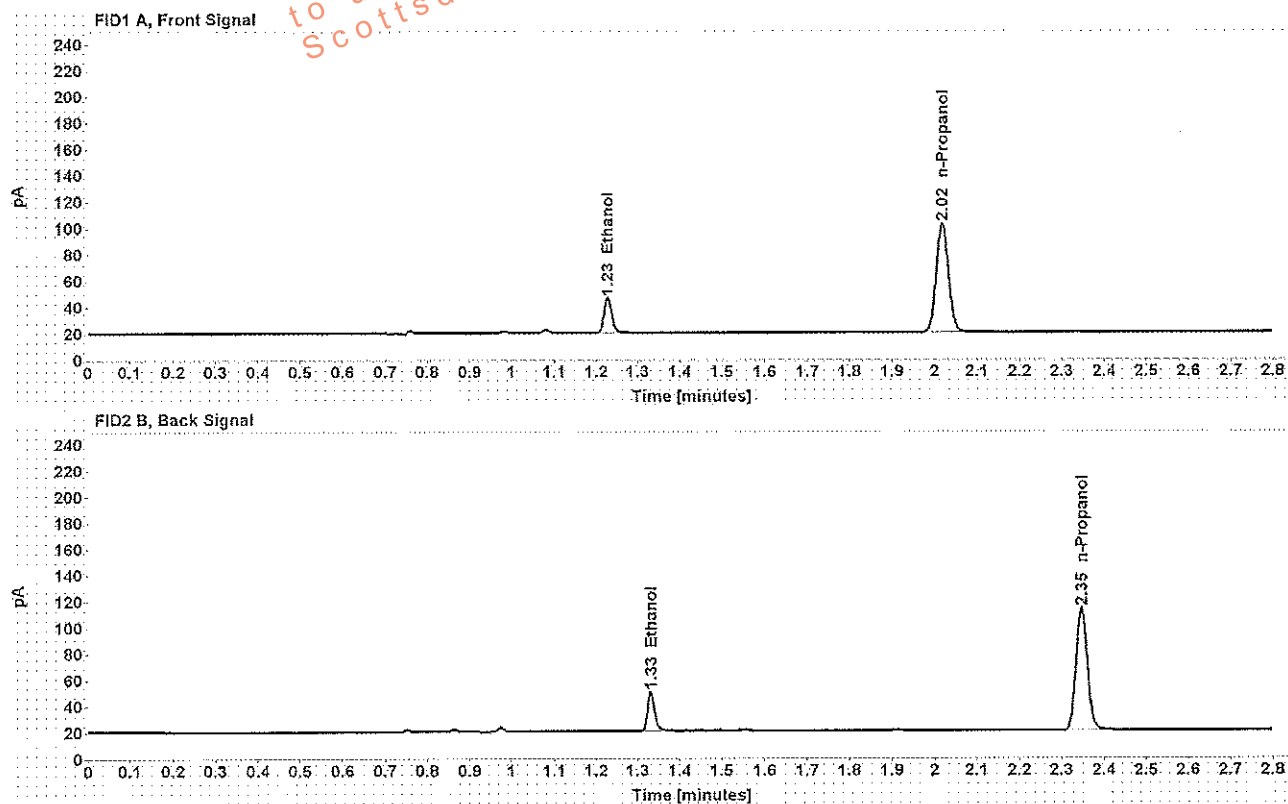


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

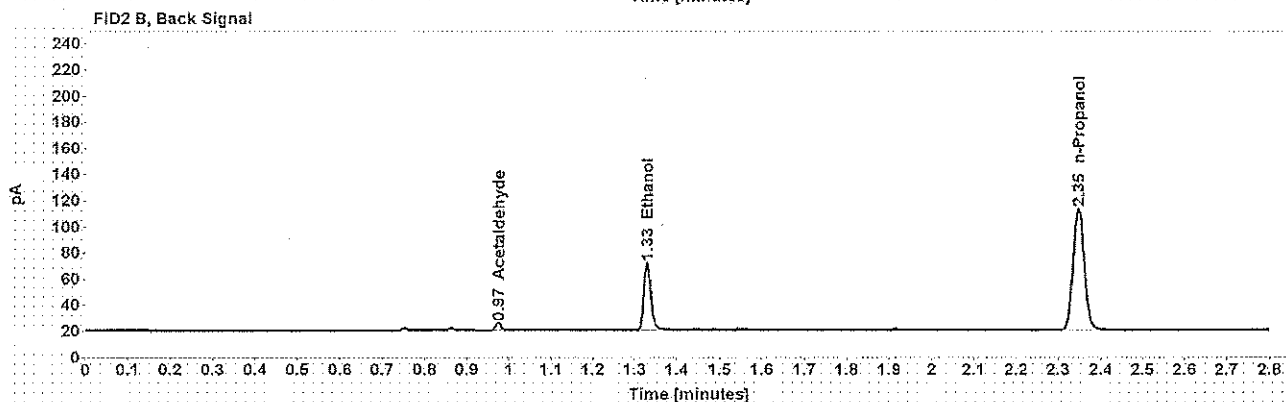
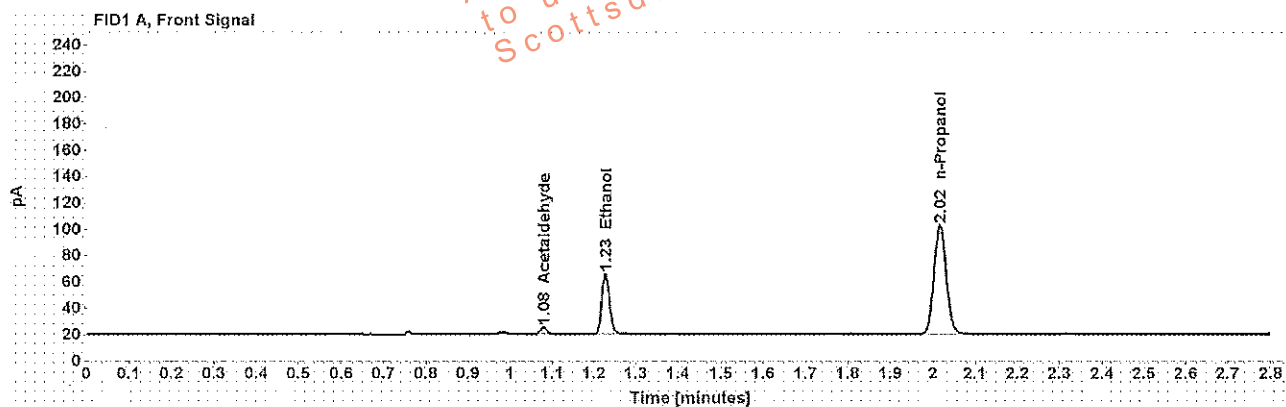


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1089584
Injection date: 7/5/2016 5:59:28 PM Vial: 28
Method: ethanol quant.M Sequence: 05Jul16.S
Instrument: US14173023 CN14160045 Analyst: Langan
Data file: C:\Chem321\1\Data\05Jul16\28.D

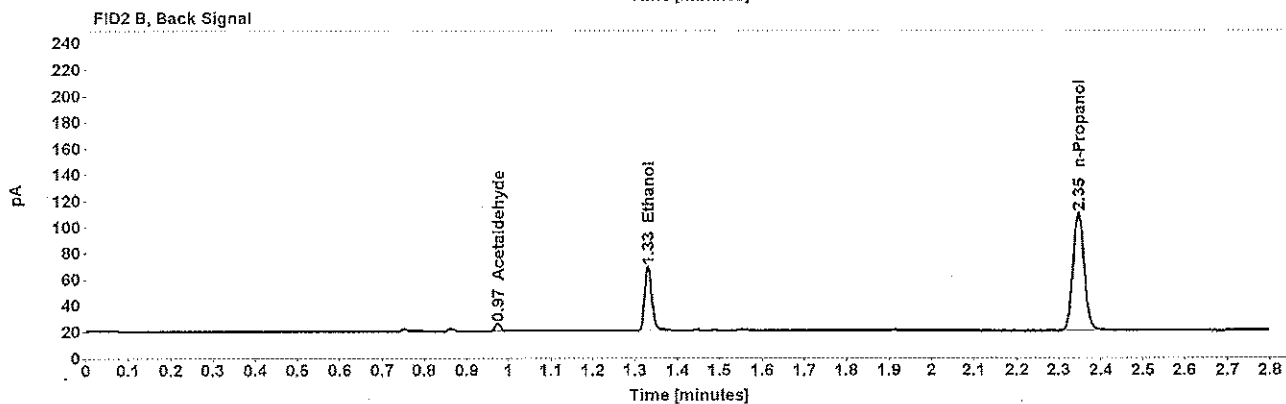
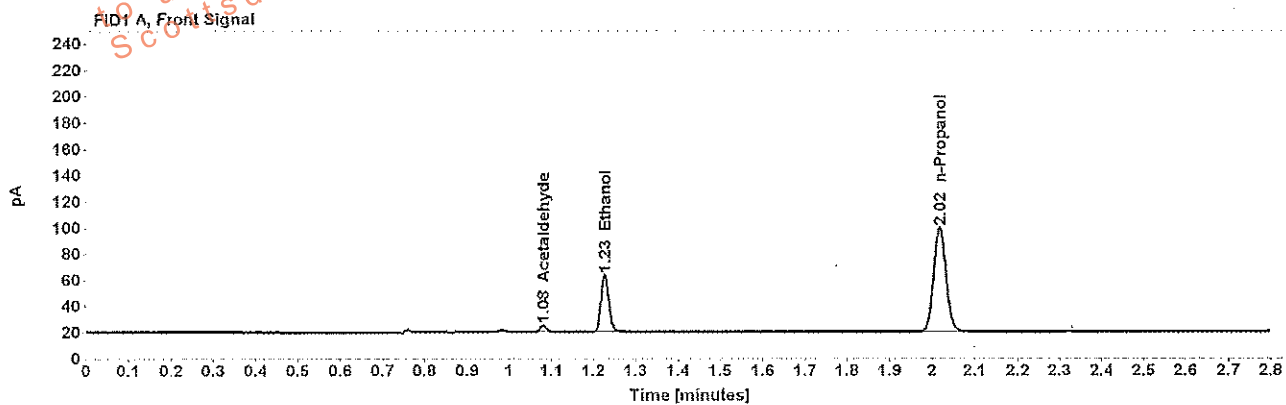


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX Item number: 1090873
 Injection date: 7/5/2016 6:03:28 PM Vial: 29
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
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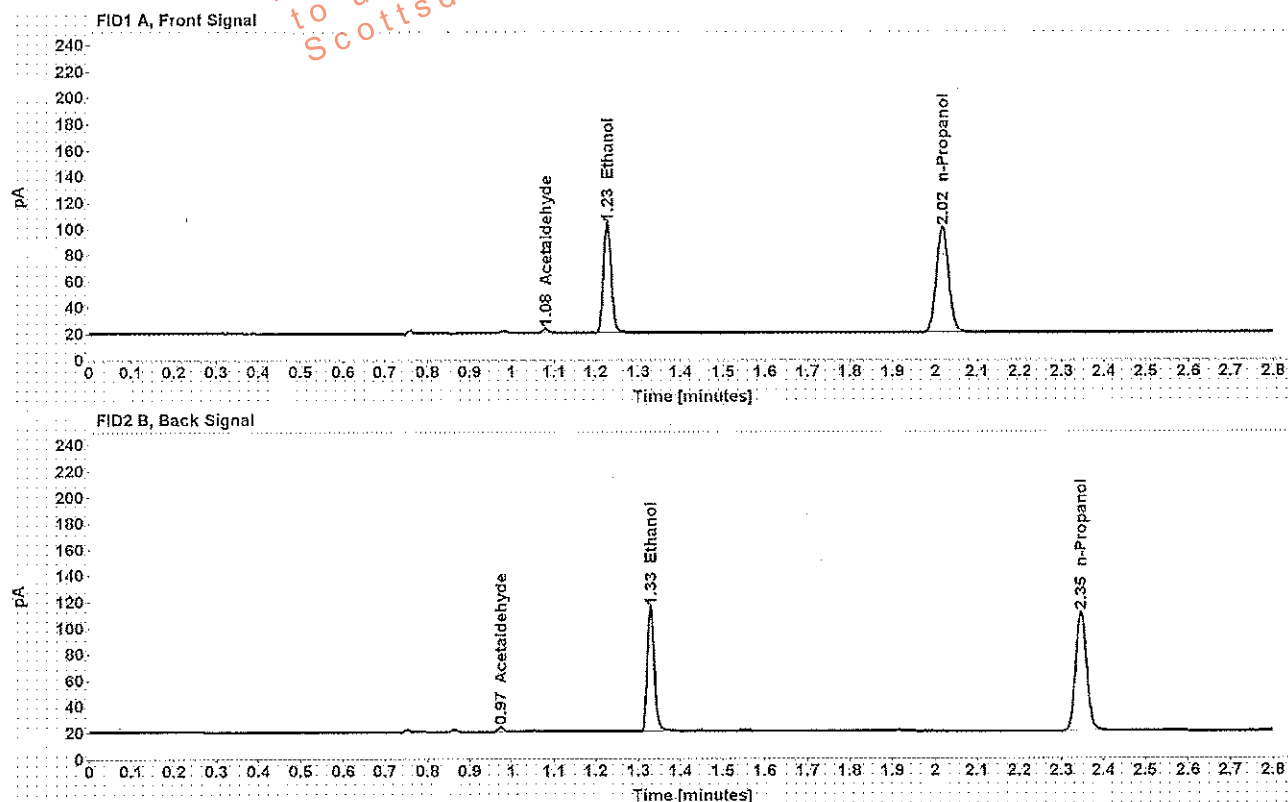


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

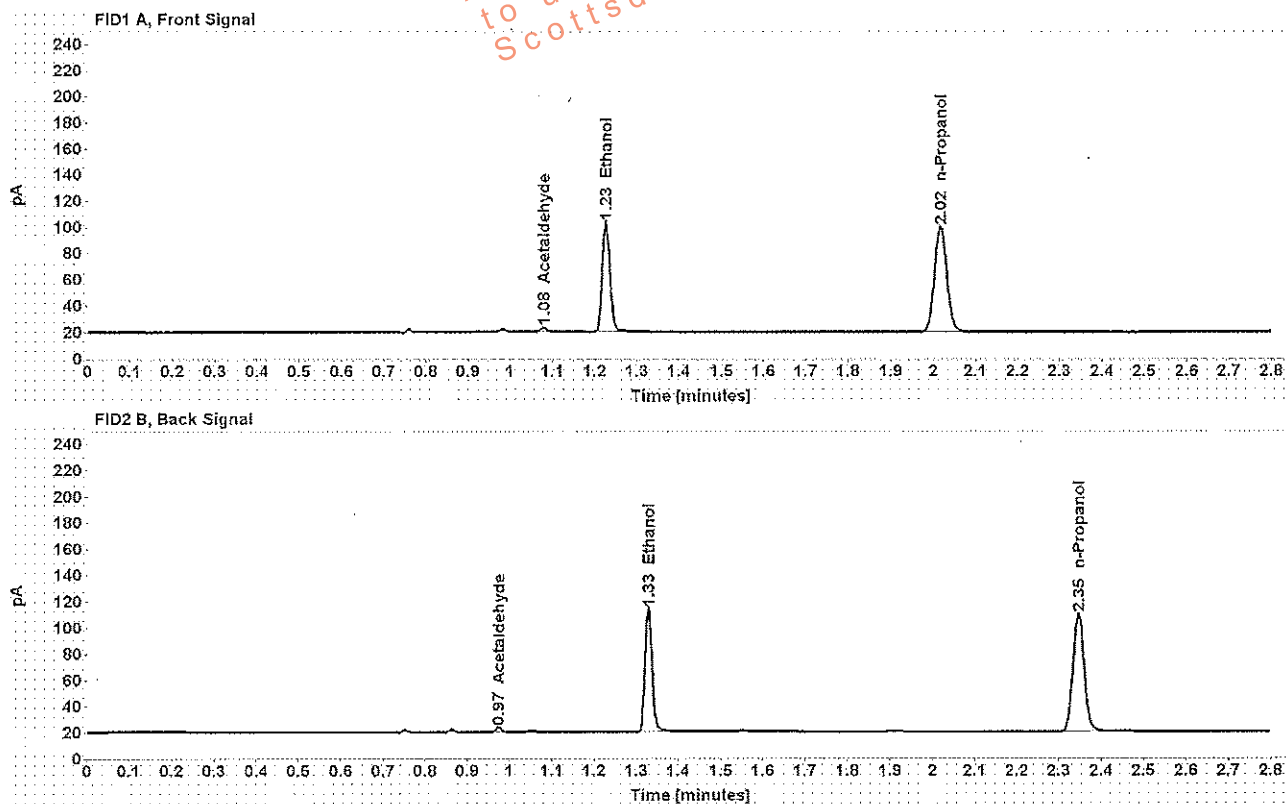


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

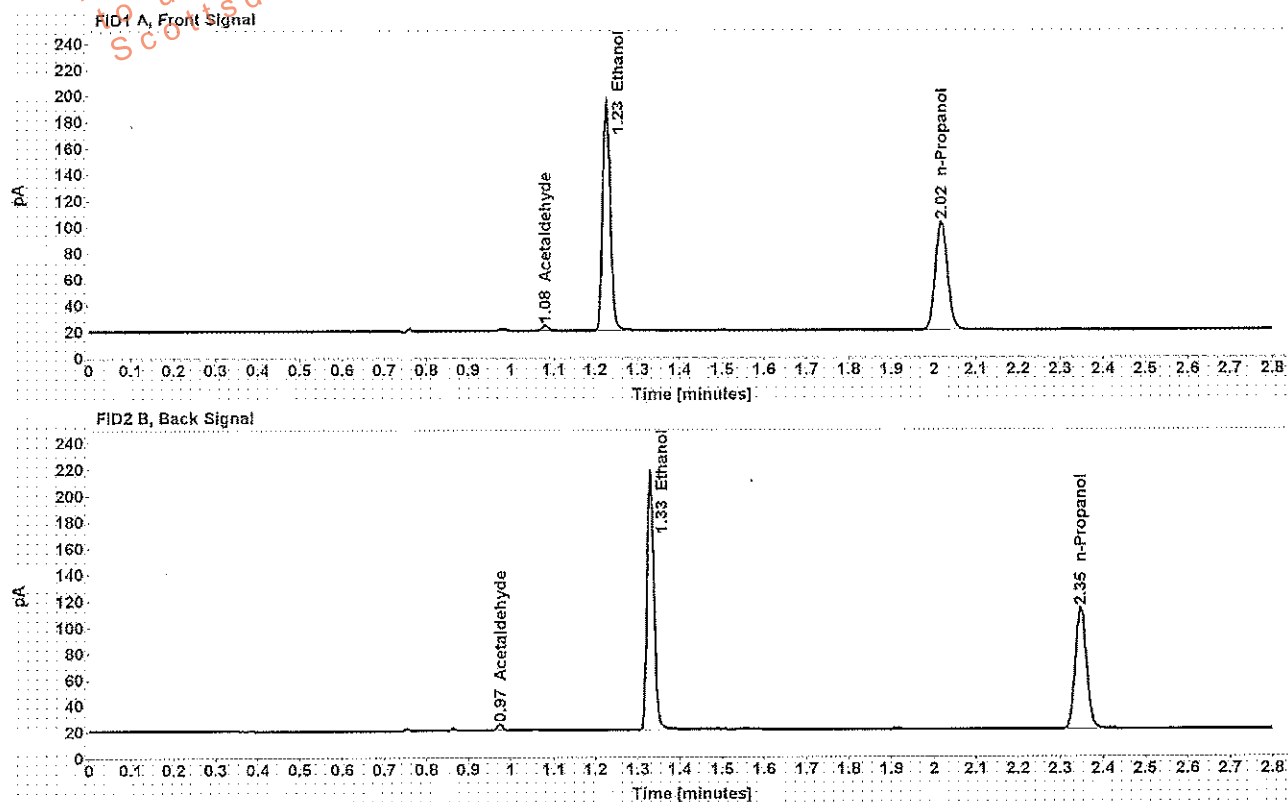


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX Item number: 1091019
 Injection date: 7/5/2016 6:19:43 PM Vial: 33
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem3211\Data\05Jul16\33.D

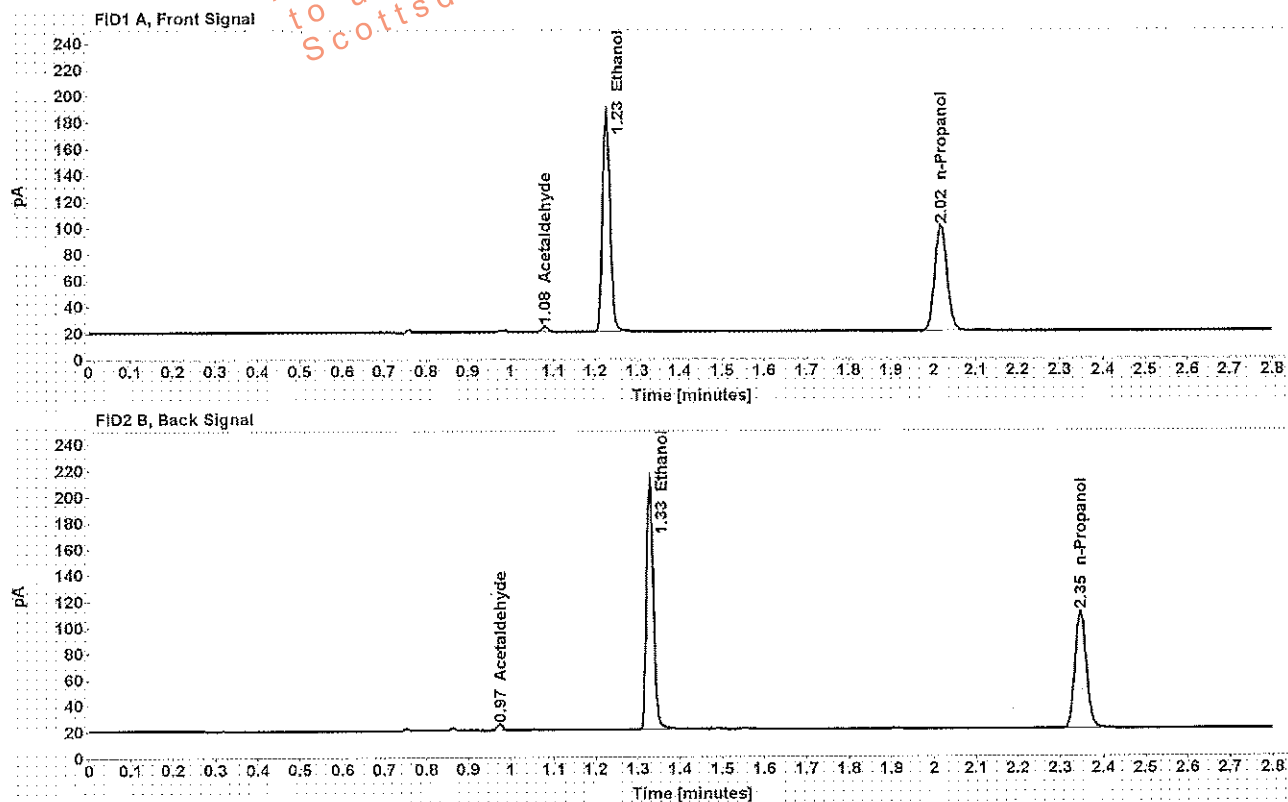


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

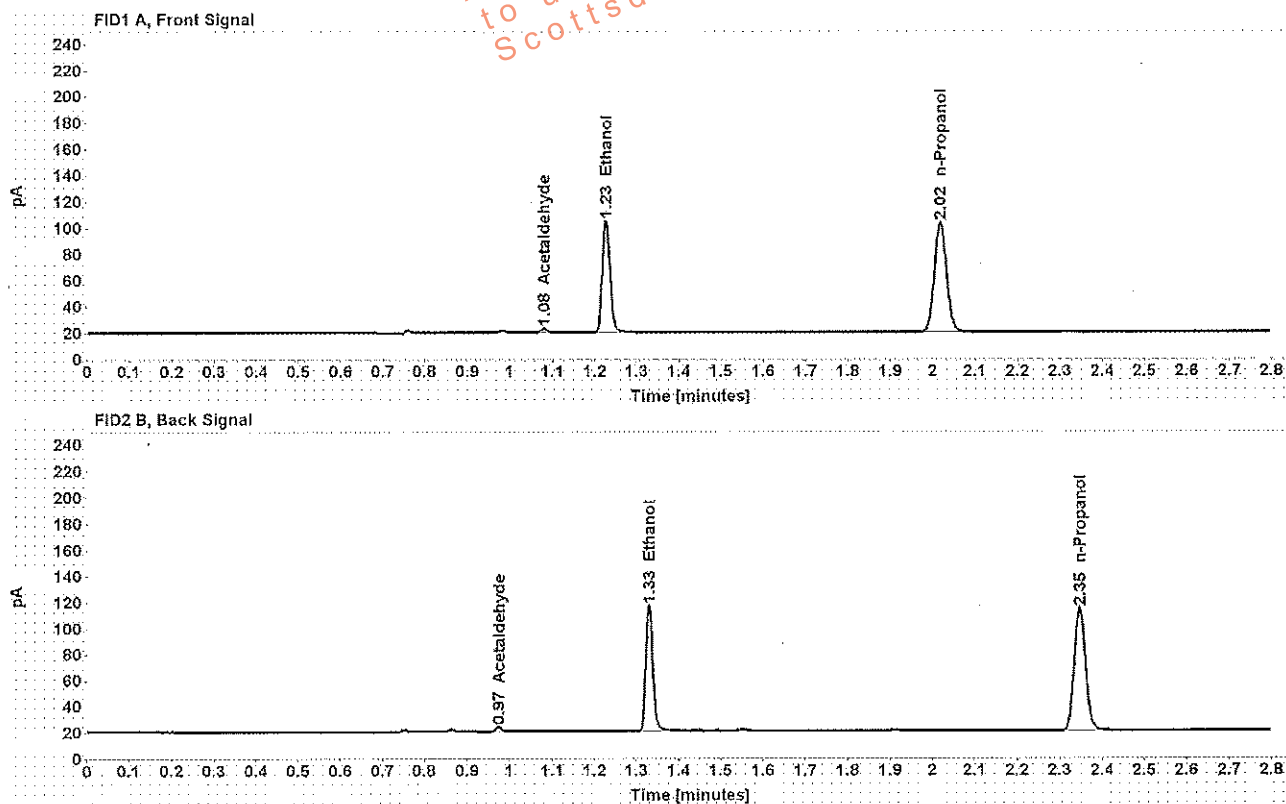


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1091104
 Injection date: 7/5/2016 6:27:43 PM Vial: 35
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem3211\Data\05Jul16\35.D

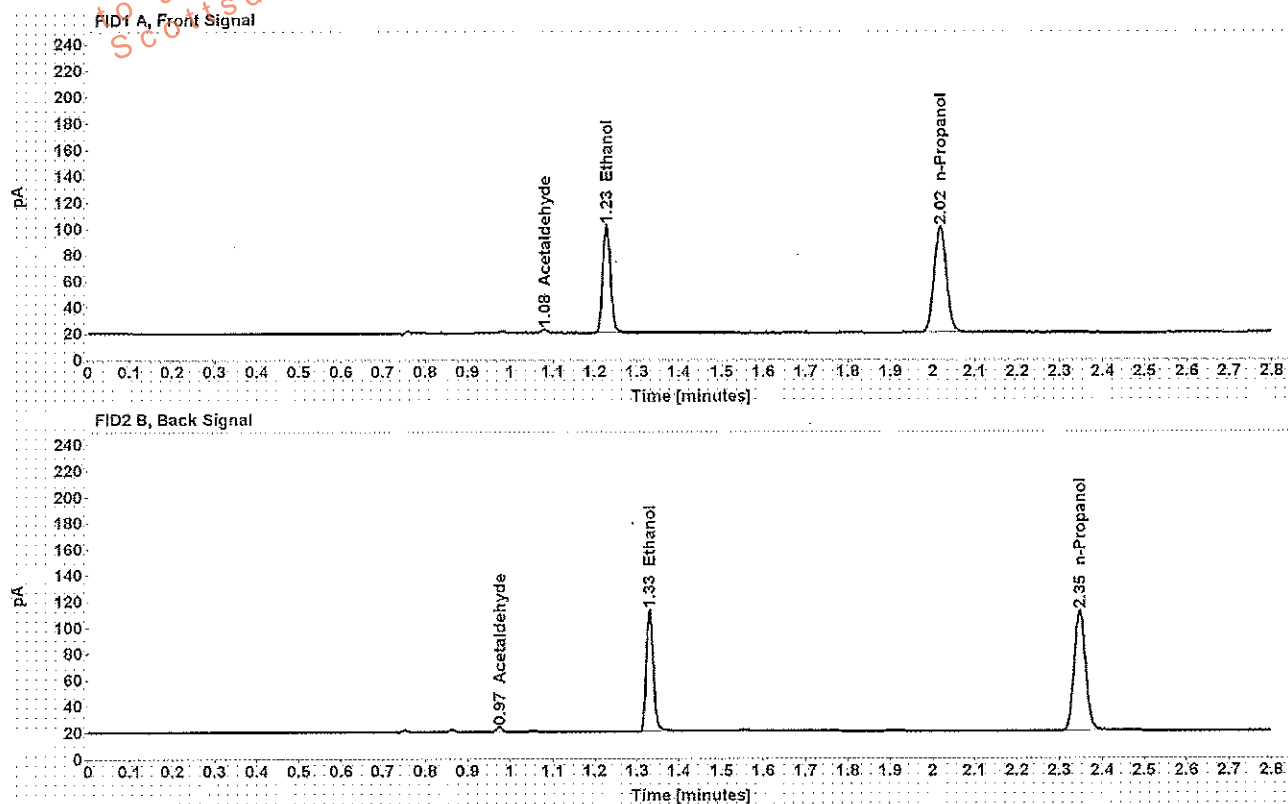


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

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

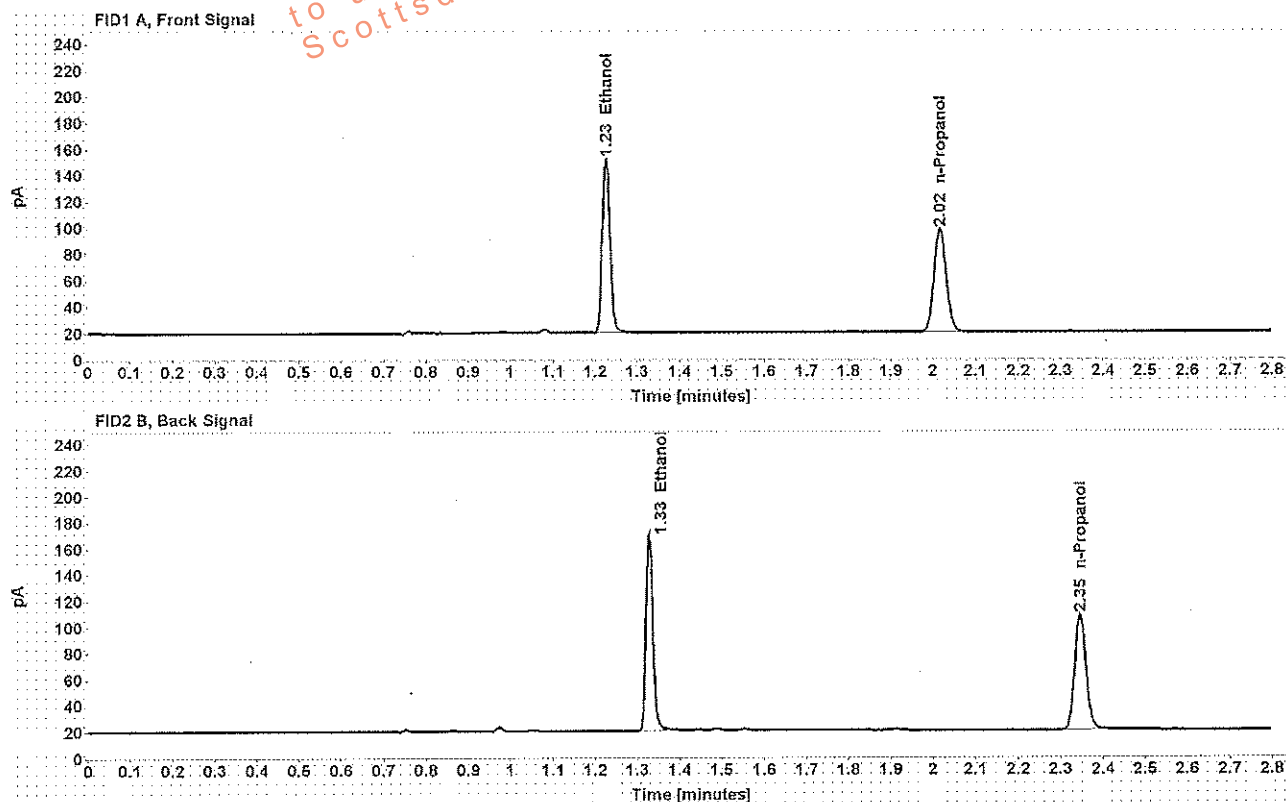


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX Item number: 1091134
 Injection date: 7/5/2016 6:35:59 PM Vial: 37
 Method: ethanol quant.M Sequence: 05Jul16.S
 Instrument: US14173023 CN14160045 Analyst: Langan
 Data file: C:\Chem32\1\Data\05Jul16\37.D

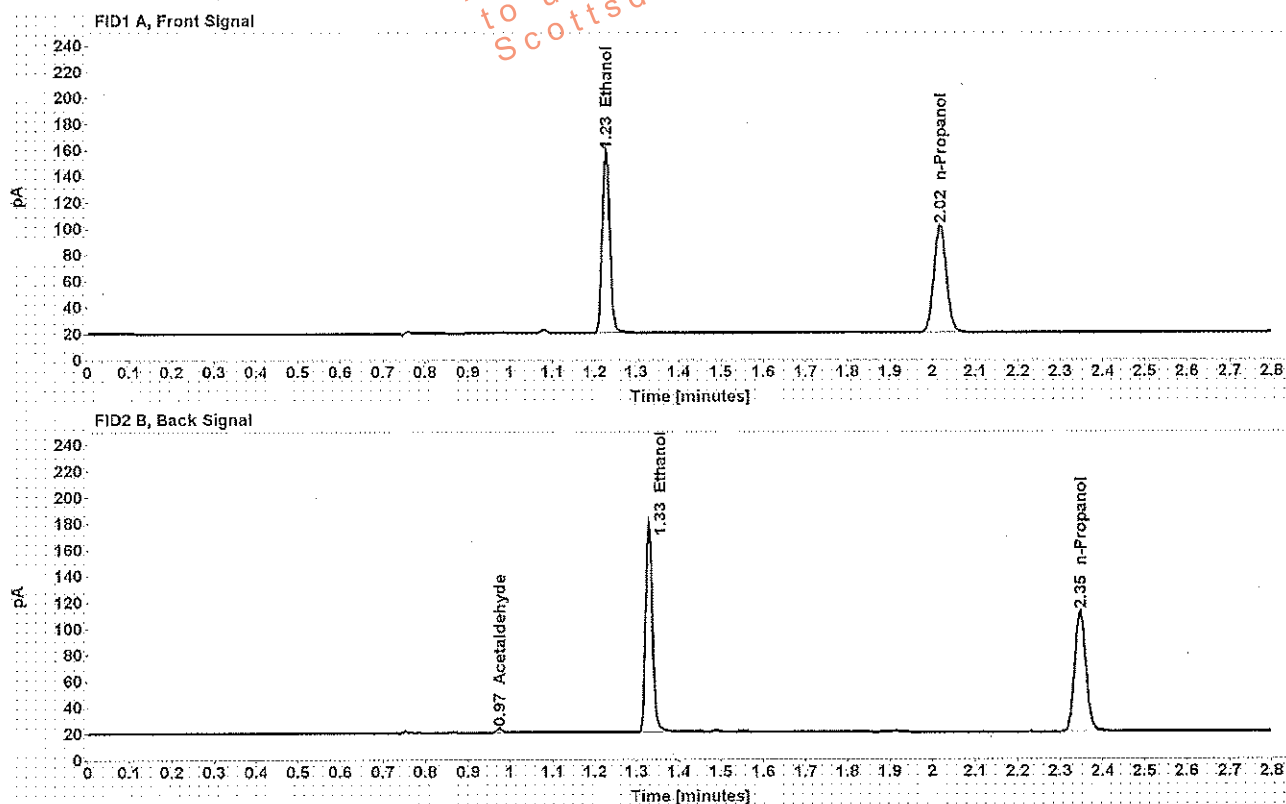


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3087	1.226	179.734
>n-Propanol	-----	2.017	167.173

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: XXXXXXXXXX
Injection date: 7/5/2016 6:39:58 PM
Method: ethanol quant.M
Instrument: US14173028 CN14160045
Data file: C:\Chem32\11\Data\05Jul16\38.D

Item number: 1091559
Vial: 38
Sequence: 05Jul16.S
Analyst: Langan

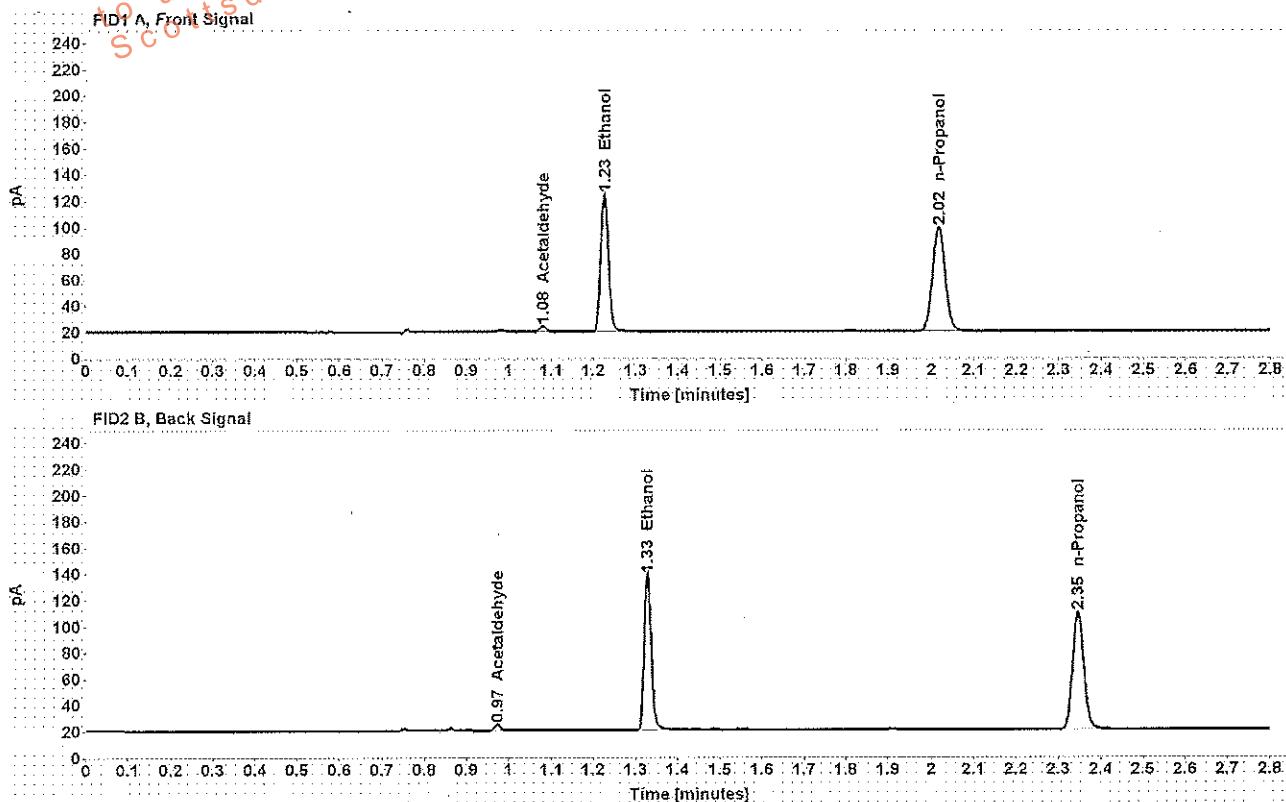


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:		Item number:	1091559
Injection date:	7/5/2016 6:43:58 PM	Vial:	39
Method:	ethanol quant.M	Sequence:	05Jul16.S
Instrument:	US14173023 CN14160045	Analyst:	Langan
Data file:	C:\Chem3211\Data\05Jul16\39.D		

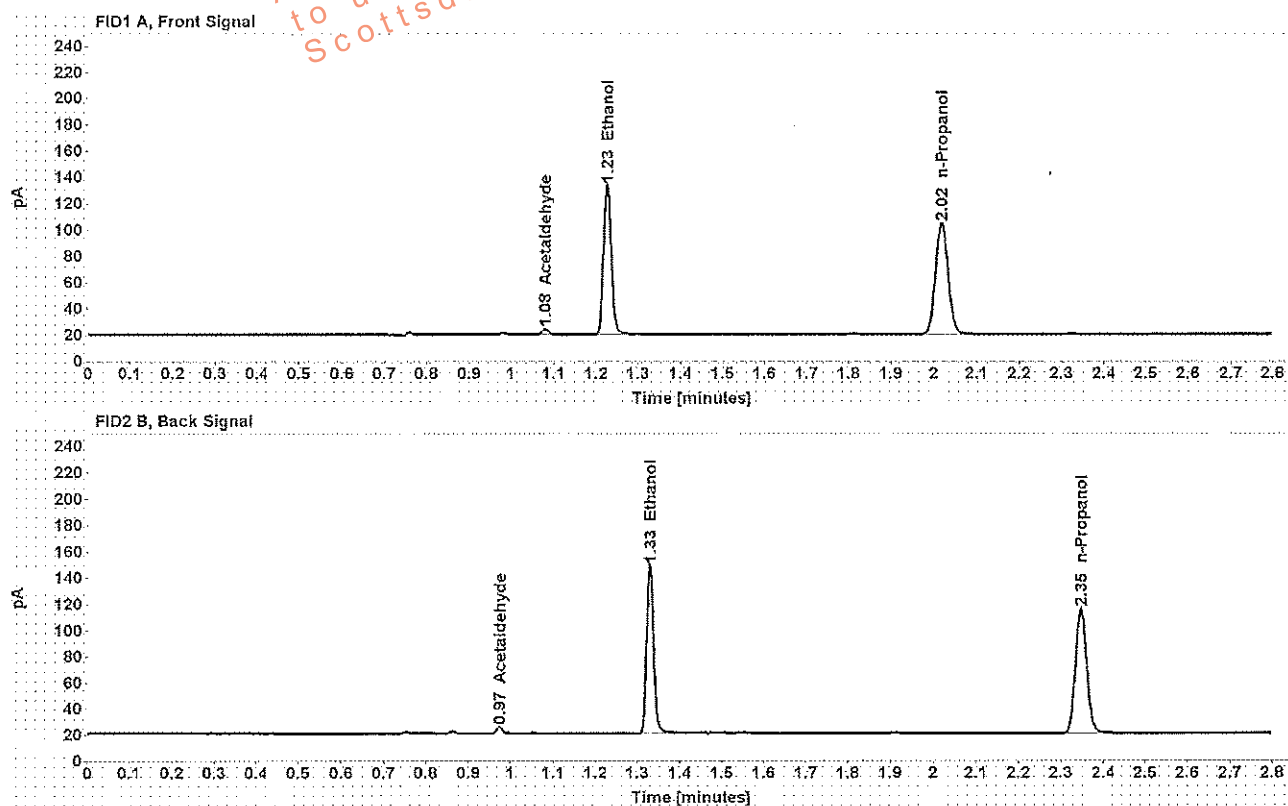


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1073204
Injection date: 7/5/2016 6:47:58 PM Vial: 40
Method: ethanol quant.M Sequence: 05Jul16.S
Instrument: US14173023 CN14160045 Analyst: Langan
Data file: C:\Chem32\1\Data\05Jul16\40.D

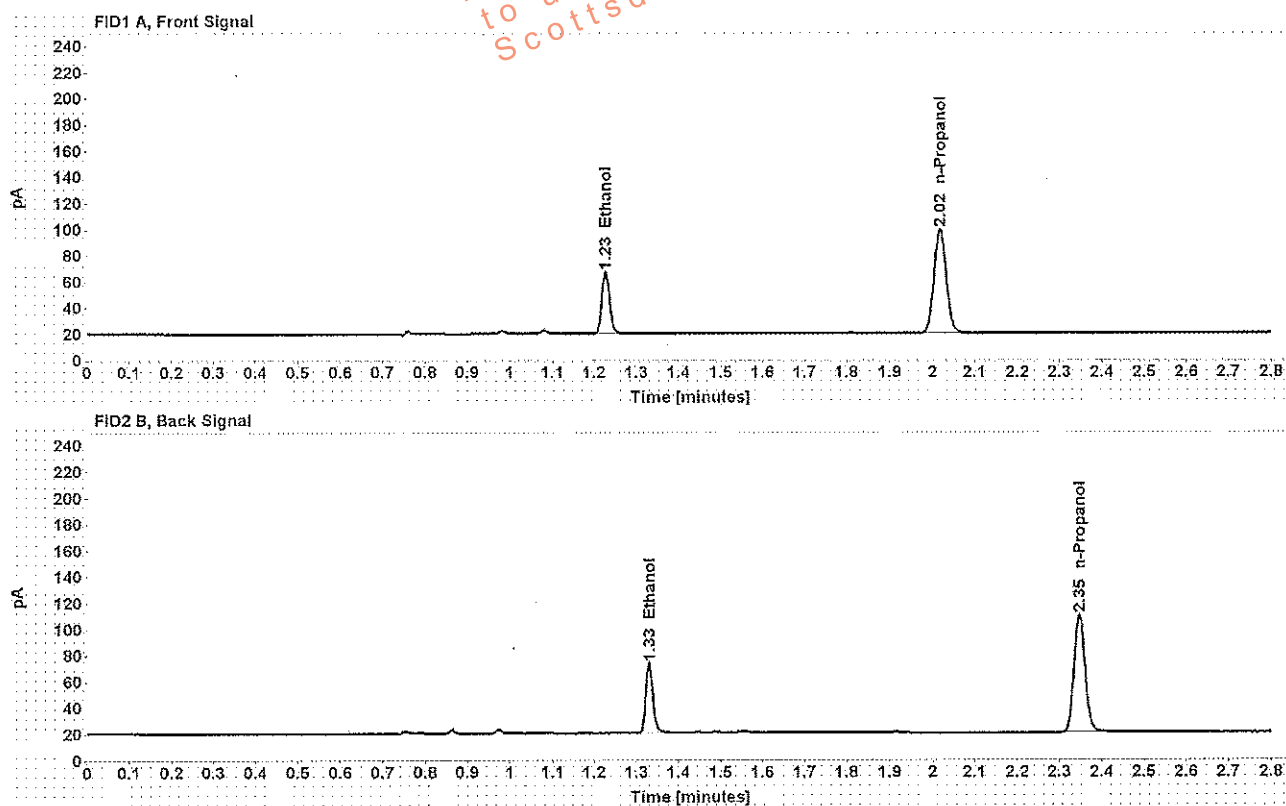


Table 1: FID 1 A (column DB-ALC1)

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

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

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED] Item number: 1073204
Injection date: 7/5/2016 6:52:00 PM Vial: 41
Method: ethanol quant.M Sequence: 05Jul16.S
Instrument: US14173023 CN14160045 Analyst: Langan
Data file: C:\Chem3211\Data\05Jul16\41.D

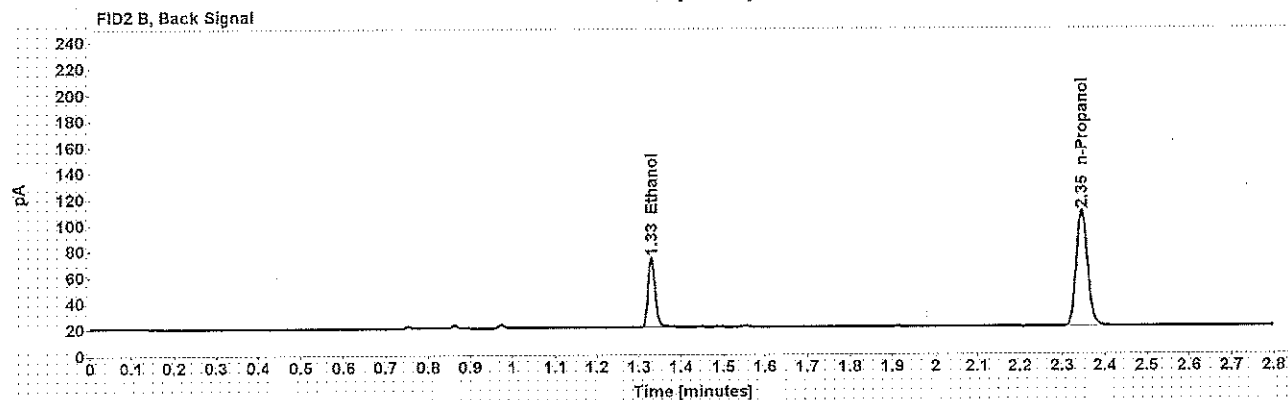
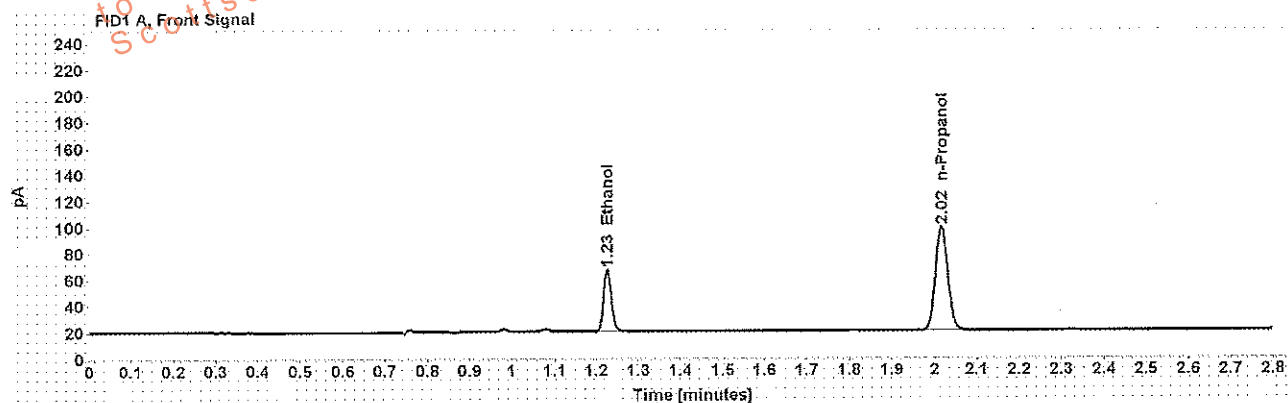


Table 1: FID 1 A (column DB-ALC1)

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

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

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