

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 05/08/2019 SEQUENCE NAME 08May19

**EQUIPMENT**

Pipettor  Hamilton ML600EH7497  Hamilton ML600GJ10749  
 Gas Chromatograph  Agilent US14173023

**INSTRUMENT CALIBRATION**

Vial 1 0.02 calibrator Lot FN03241604 Coefficient of determination (r<sup>2</sup>)  
 Vial 2 0.10 calibrator Lot FN06181501 0.99999  
 Vial 3 0.20 calibrator Lot FN07201502  
 Vial 4 0.40 calibrator Lot FN11191402

**CALIBRATION VERIFICATION AND RESOLUTION TEST**

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	Blank	Not detected	Not detected	SPD lab 121118
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 020917WLA
7	Aqueous control	0.400 g/dL	0.404 g/dL	Lipomed 08012015-C
8	Aqueous control	0.040 g/dL	0.039 g/dL	Lipomed 09022015-A
9	Blood control	0.198 g/dL	0.204 g/dL	ACQ 407041529/13
20	Aqueous control	0.080 g/dL	0.079 g/dL	Lipomed 28082014-B
31	Aqueous control	0.400 g/dL	0.407 g/dL	Lipomed 08012015-C
32	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 09022015-A
33	Blood control	0.198 g/dL	0.200 g/dL	ACQ 407041529/13
34	Blank	Not detected	Not detected	SPD lab 121118

**SUBJECT SAMPLES**

Subjects in the sequence 10 Subjects requiring reanalysis 0

**ADDITIONAL NOTES:** All QA data met. Hand corrected name on chromatograms 10/11 and 21/22 as well as worklist and sequence. This run also included four proficiency samples at positions 23-30.

Run valid  Run invalid  WA B1466 5/20/19 Analyst  
 Run valid  Run invalid  WA B1570 5/20/19 Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

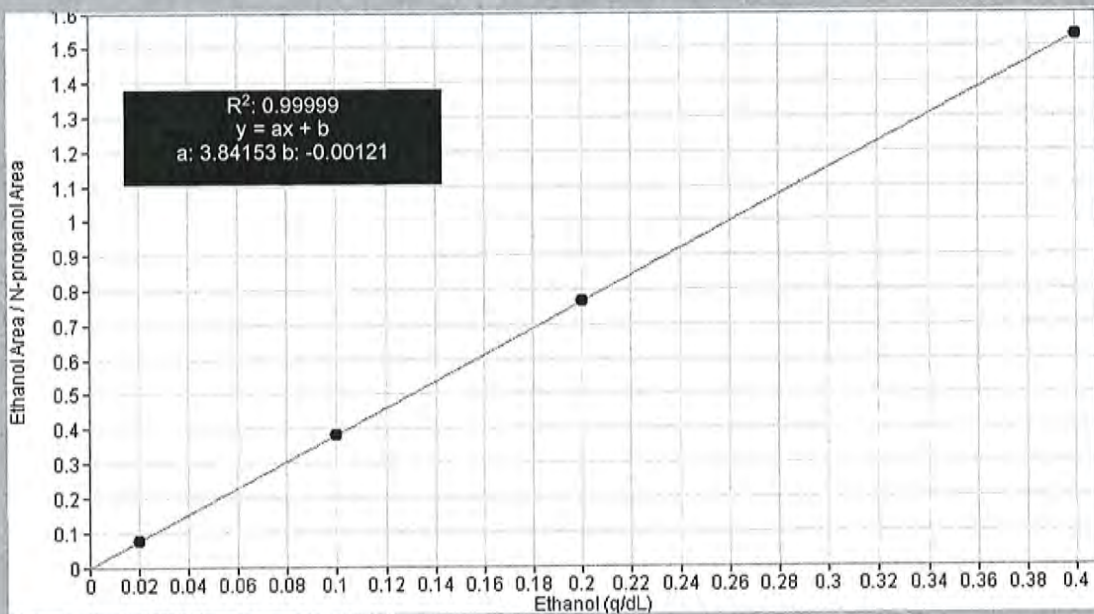
SEQUENCE NAME: 08May19

ANALYST: Raines *MR*

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 121118	5	negative	negative	-	-
0.400 08012015-C	7	0.404	0.400	1.00	0.004
0.040 09022015-A	8	0.039	0.040	2.50	-0.001
0.198 407041529/13	9	0.204	0.198	3.03	0.006
0.080 28082014-B	20	0.079	0.080	1.25	-0.001
0.40 08012015-C	31	0.407	0.400	1.75	0.007
0.04 09022015-A	32	0.040	0.040	0.00	0.000
0.198 407041529/13	33	0.200	0.198	1.01	0.002
blank 121118	34	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	12.057	161.005	0.075
0.100	62.509	163.489	0.382
0.200	123.356	160.333	0.769
0.400	246.304	160.517	1.534

**Calibration Line**



# Sequence Summary

Sequence name: 08May19      Instrument: US14173023 CN14160045      Analyst: Raines *JWR*

Vial	Sample	Description	Type	LIMS ID	Method
1	FN03241604	0.020 calibrator	Calibration		ethanol quant.M
2	FN06181501	0.100 calibrator	Calibration		ethanol quant.M
3	FN07201502	0.200 calibrator	Calibration		ethanol quant.M
4	FN11191402	0.400 calibrator	Calibration		ethanol quant.M
5	121118	Negative	Control		ethanol quant.M
6	020917	Volatiles mix	Control		ethanol quant.M
7	08012015-C	0.400	Control		ethanol quant.M
8	09022015-A	0.040	Control		ethanol quant.M
9	407041529/13	0.198	Control		ethanol quant.M
10			Sample		ethanol quant.M
11			Sample		ethanol quant.M
12			Sample		ethanol quant.M
13			Sample		ethanol quant.M
14			Sample		ethanol quant.M
15			Sample		ethanol quant.M
16			Sample		ethanol quant.M
17			Sample		ethanol quant.M
18			Sample		ethanol quant.M
19			Sample		ethanol quant.M
20	28082014-B	0.080	Control		ethanol quant.M
21			Sample		ethanol quant.M
22			Sample		ethanol quant.M
23			Sample		ethanol quant.M
24			Sample		ethanol quant.M
25			Sample		ethanol quant.M
26			Sample		ethanol quant.M
27			Sample		ethanol quant.M
28			Sample		ethanol quant.M
29			Sample		ethanol quant.M
30			Sample		ethanol quant.M
31	08012015-C	0.400	Control		ethanol quant.M
32	09022015-A	0.040	Control		ethanol quant.M
33	407041529/13	0.198	Control		ethanol quant.M
34	121118	Negative	Control		ethanol quant.M

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

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	FN03241604	<b>Vial:</b>	1
<b>Description:</b>	0.020 calibrator	<b>Sequence:</b>	08May19
<b>Method:</b>	ethanol quant.M	<b>Injection date:</b>	5/8/2019 2:52:28 PM
<b>Instrument:</b>	US14173023 CN14160045	<b>Analyst:</b>	Raines <i>[Signature]</i>
<b>Data file:</b>	C:\Chem32\1\Data\08May19\1.D		

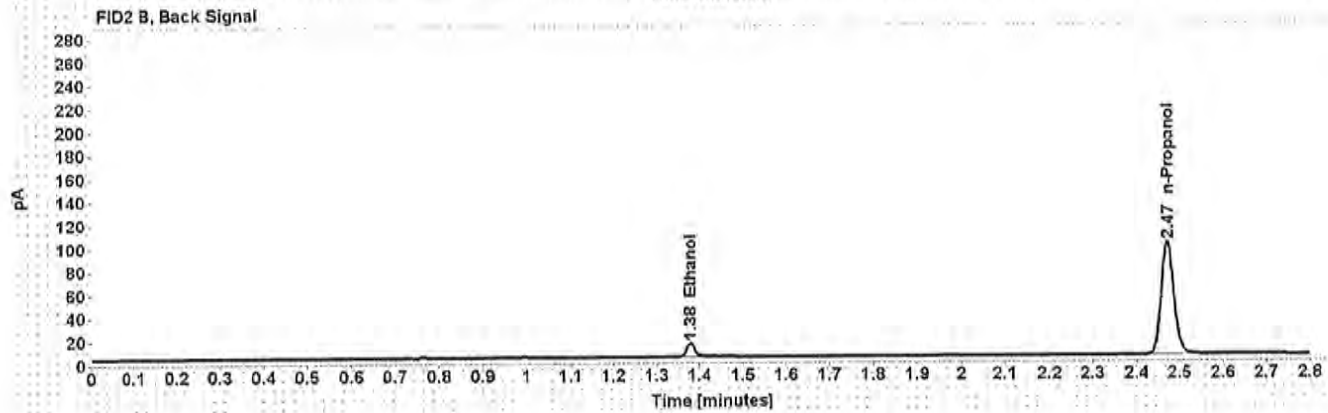
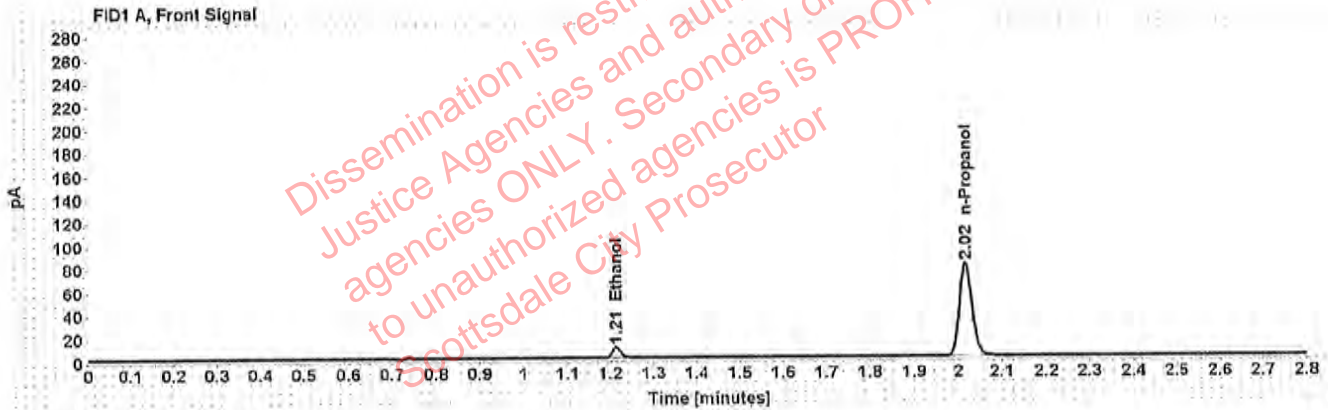


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.213	12.057
n-Propanol	2.017	161.005

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

Compound	Time (min)	Peak Area
Ethanol	1.379	14.934
n-Propanol	2.472	197.761

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN06181501	<b>Vial:</b> 2
<b>Description:</b> 0.100 calibrator	<b>Sequence:</b> 08May19
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 5/8/2019 2:56:28 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Raines <i>[Signature]</i>
<b>Data file:</b> C:\Chem32\1\Data\08May19\2.D	

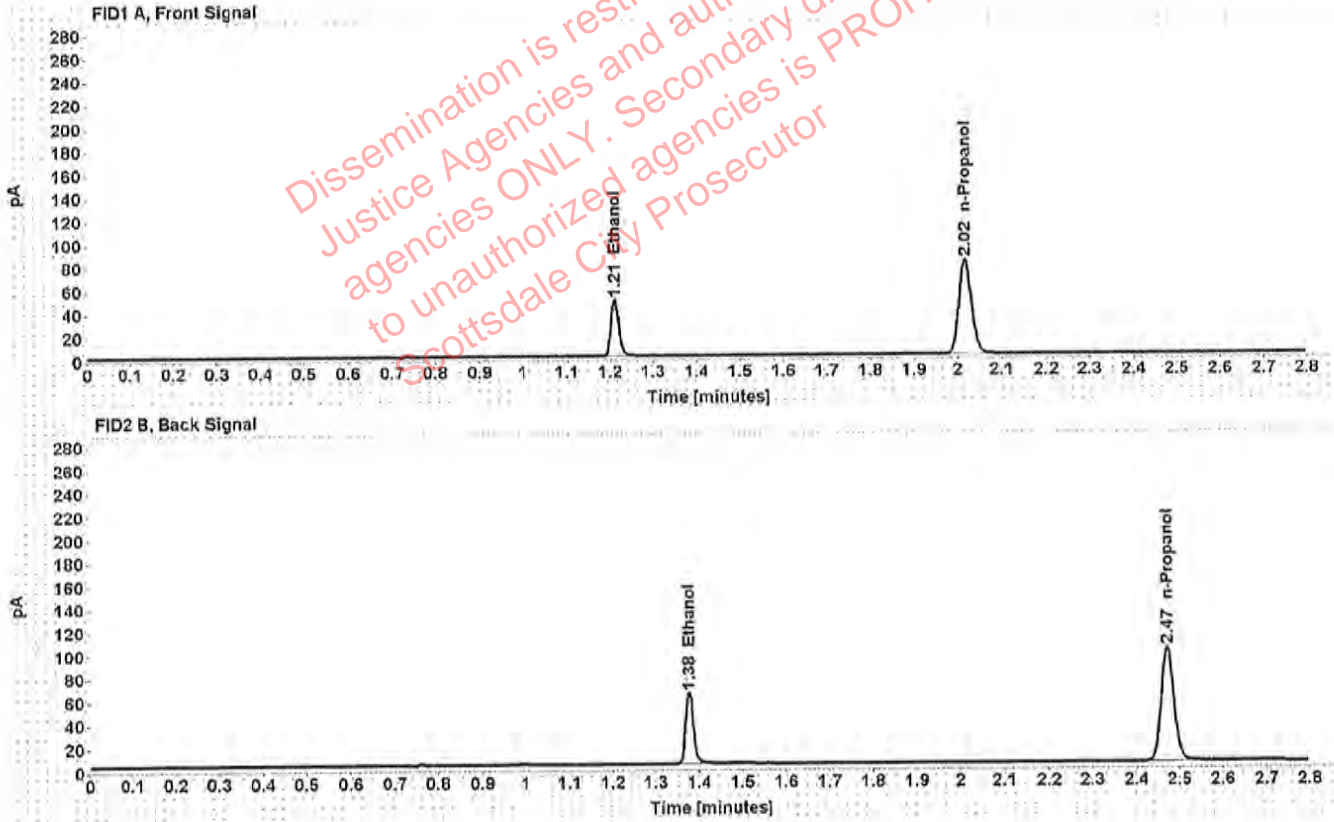


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.211	62.509
n-Propanol	2.017	163.489

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

Compound	Time (min)	Peak Area
Ethanol	1.377	77.352
n-Propanol	2.472	200.885

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN07201502	<b>Vial:</b> 3
<b>Description:</b> 0.200 calibrator	<b>Sequence:</b> 08May19
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 5/8/2019 3:00:29 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Raines <i>NR</i>
<b>Data file:</b> C:\Chem32\1\Data\08May19\3.D	

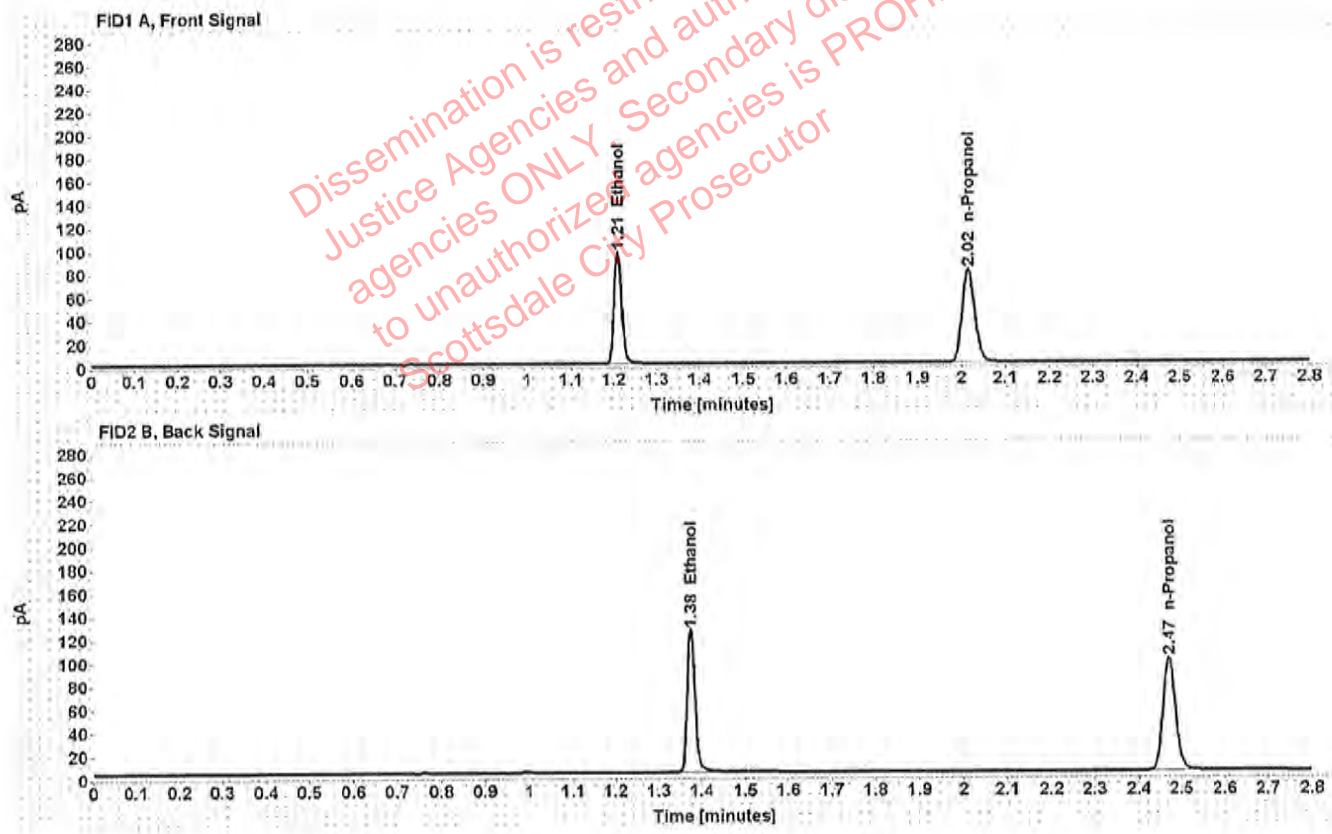


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	123.356
n-Propanol	2.016	160.333

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

Compound	Time (min)	Peak Area
Ethanol	1.375	153.590
n-Propanol	2.471	197.444

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN11191402	<b>Vial:</b> 4
<b>Description:</b> 0.400 calibrator	<b>Sequence:</b> 08May19
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 5/8/2019 3:04:28 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Raines <i>[Signature]</i>
<b>Data file:</b> C:\Chem32\1\Data\08May19\4.D	

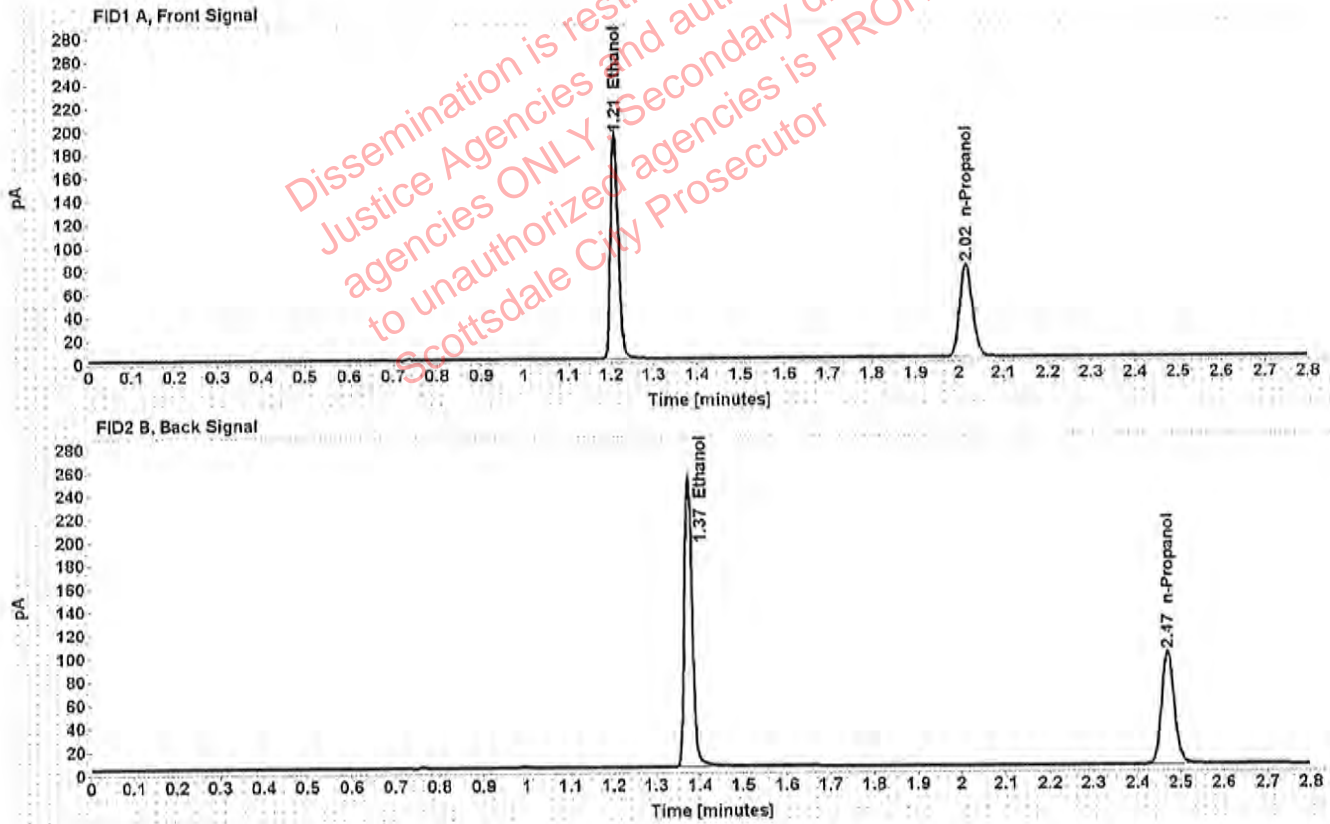


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	246.304
n-Propanol	2.016	160.517

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

Compound	Time (min)	Peak Area
Ethanol	1.375	307.402
n-Propanol	2.470	197.657

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 121118	Vial: 5
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 3:08:28 PM
Data file: C:\Chem32\1\Data\08May19\5.D	Analyst: Raines <i>JML</i>

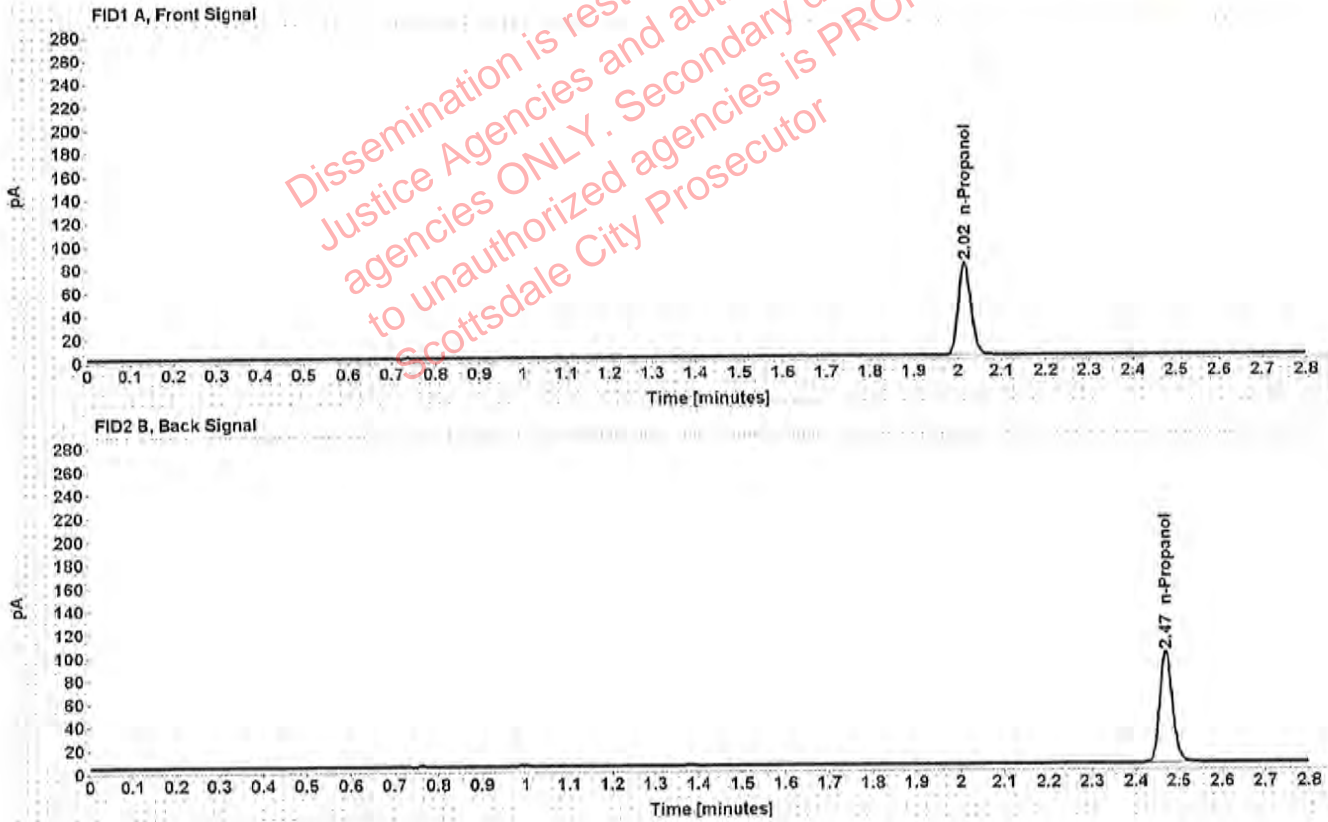


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	159.586

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

Compound	Time (min)	Peak Area
n-Propanol	2.470	195.914



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 020917	Vial: 6
Description: Volatiles mix	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 3:12:28 PM
Data file: C:\Chem32\1\Data\08May19\6.D	Analyst: Raines <i>[Signature]</i>

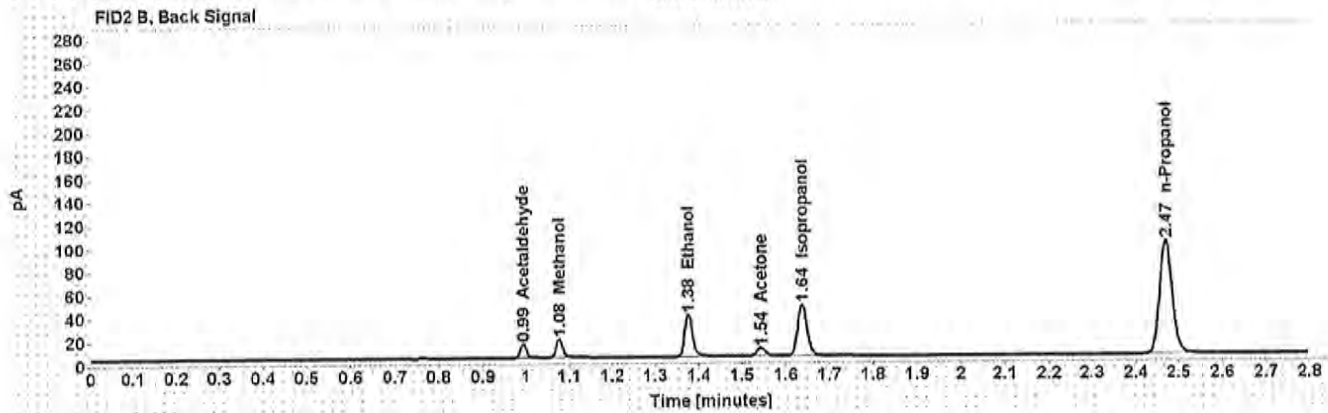
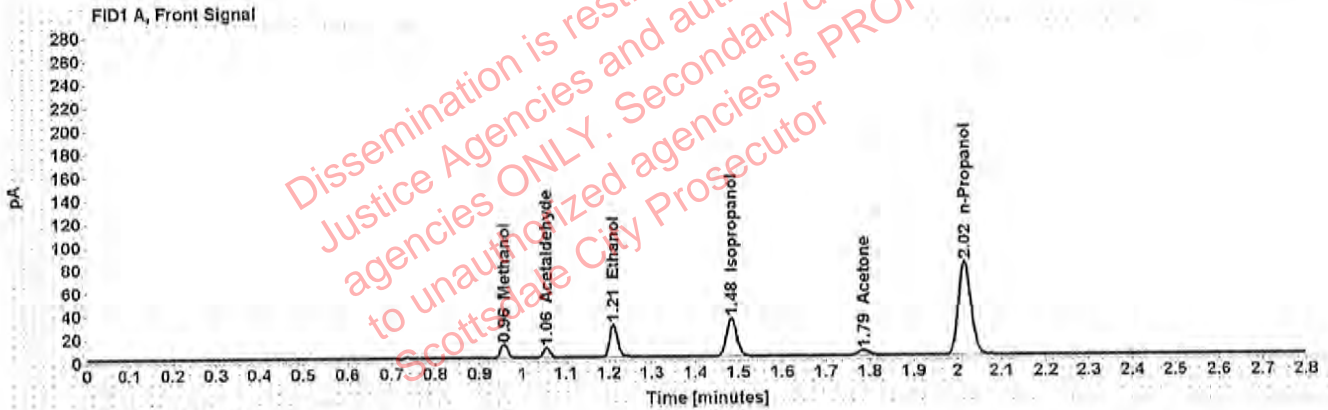


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.957	13.345
Acetaldehyde	-----	1.055	9.079
>Ethanol	0.0590	1.211	36.652
Isopropanol	-----	1.484	53.334
Acetone	-----	1.786	7.446
n-Propanol	-----	2.016	162.446

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	11.834
Methanol	1.077	16.953
Ethanol	1.376	45.184
Acetone	1.544	8.976
Isopropanol	1.638	67.217
n-Propanol	2.471	199.913

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 08012015-C	Vial: 7
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 3:16:43 PM
Data file: C:\Chem32\1\Data\08May19\7.D	Analyst: Raines <i>MR</i>

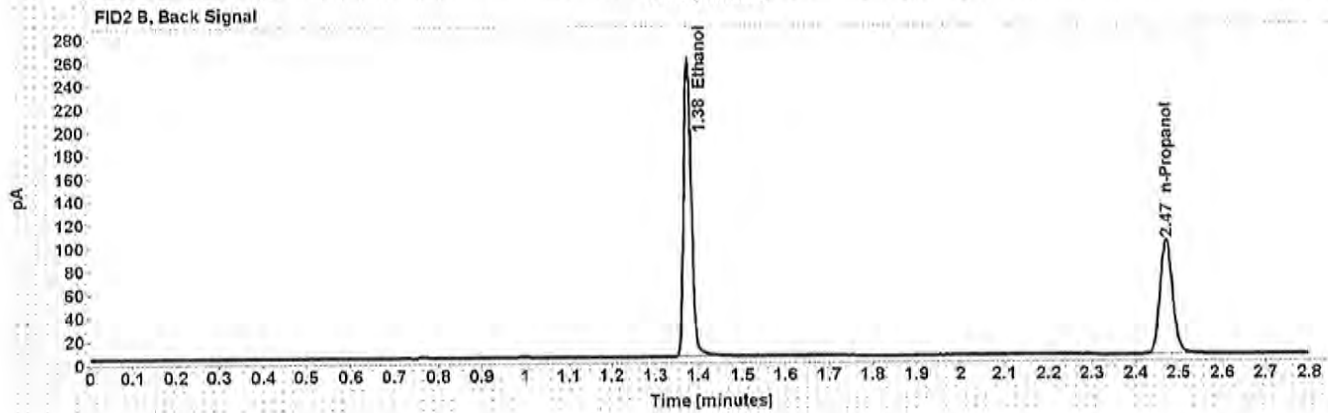
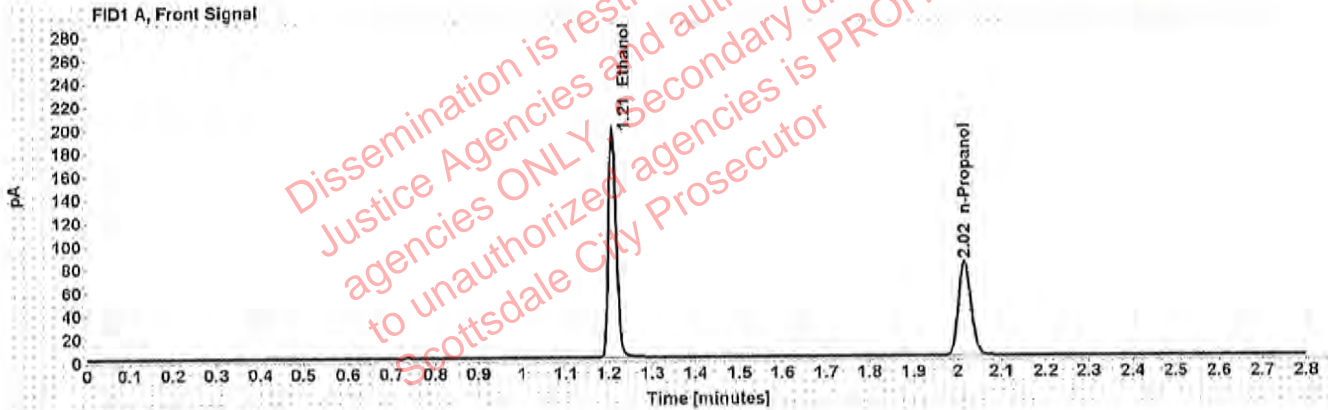


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4041	1.209	253.196
n-Propanol	-----	2.016	163.233

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

Compound	Time (min)	Peak Area
Ethanol	1.375	316.048
n-Propanol	2.471	201.041

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 09022015-A	<b>Vial:</b> 8
<b>Description:</b> 0.040	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 3:20:43 PM
<b>Data file:</b> C:\Chem32\1\Data\08May19\8.D	<b>Analyst:</b> Raines <i>[Signature]</i>

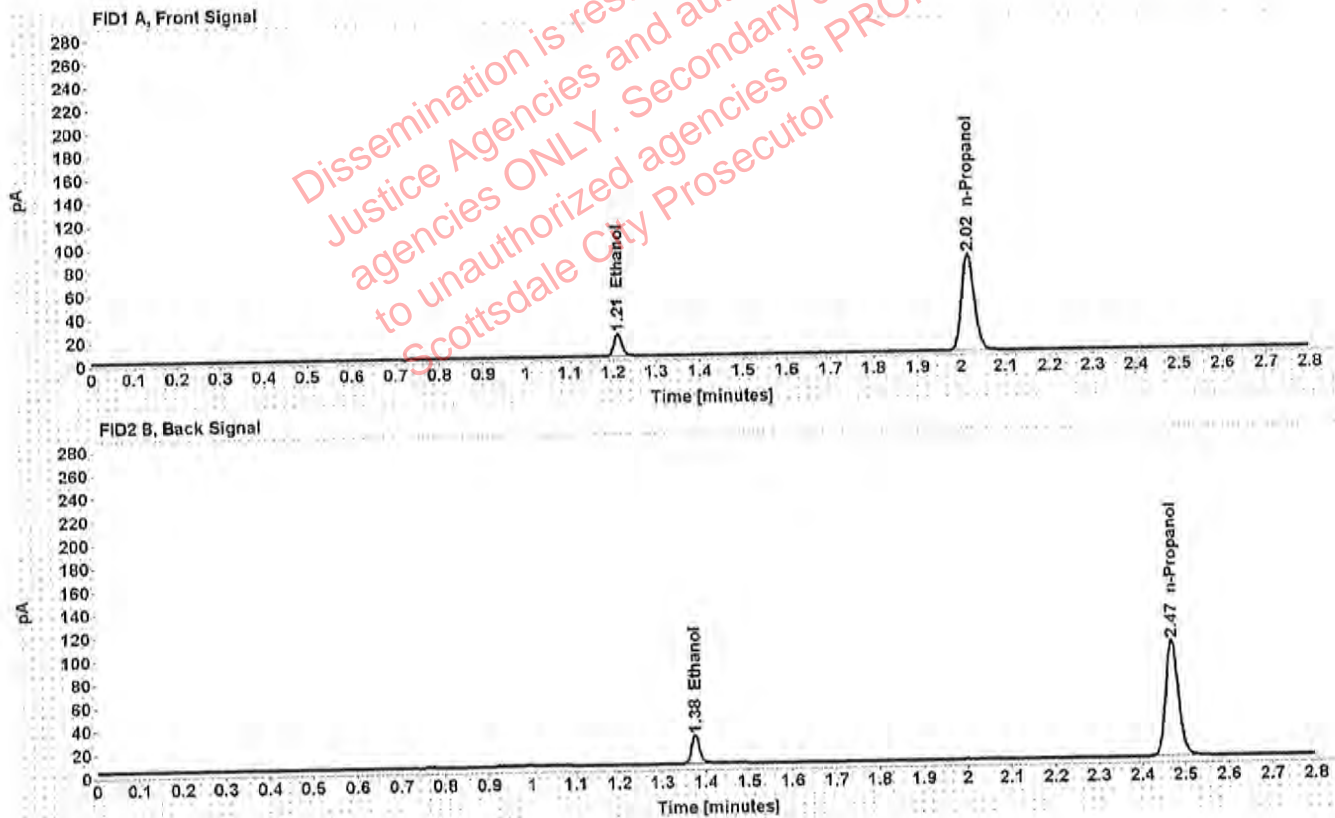


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0395	1.211	24.890
n-Propanol	-----	2.016	165.497

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

Compound	Time (min)	Peak Area
Ethanol	1.376	30.655
n-Propanol	2.470	203.624

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 407041529/13	Vial: 9
Description: 0.198	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 3:24:43 PM
Data file: C:\Chem32\1\Data\08May19\9.D	Analyst: Raines <i>ml</i>

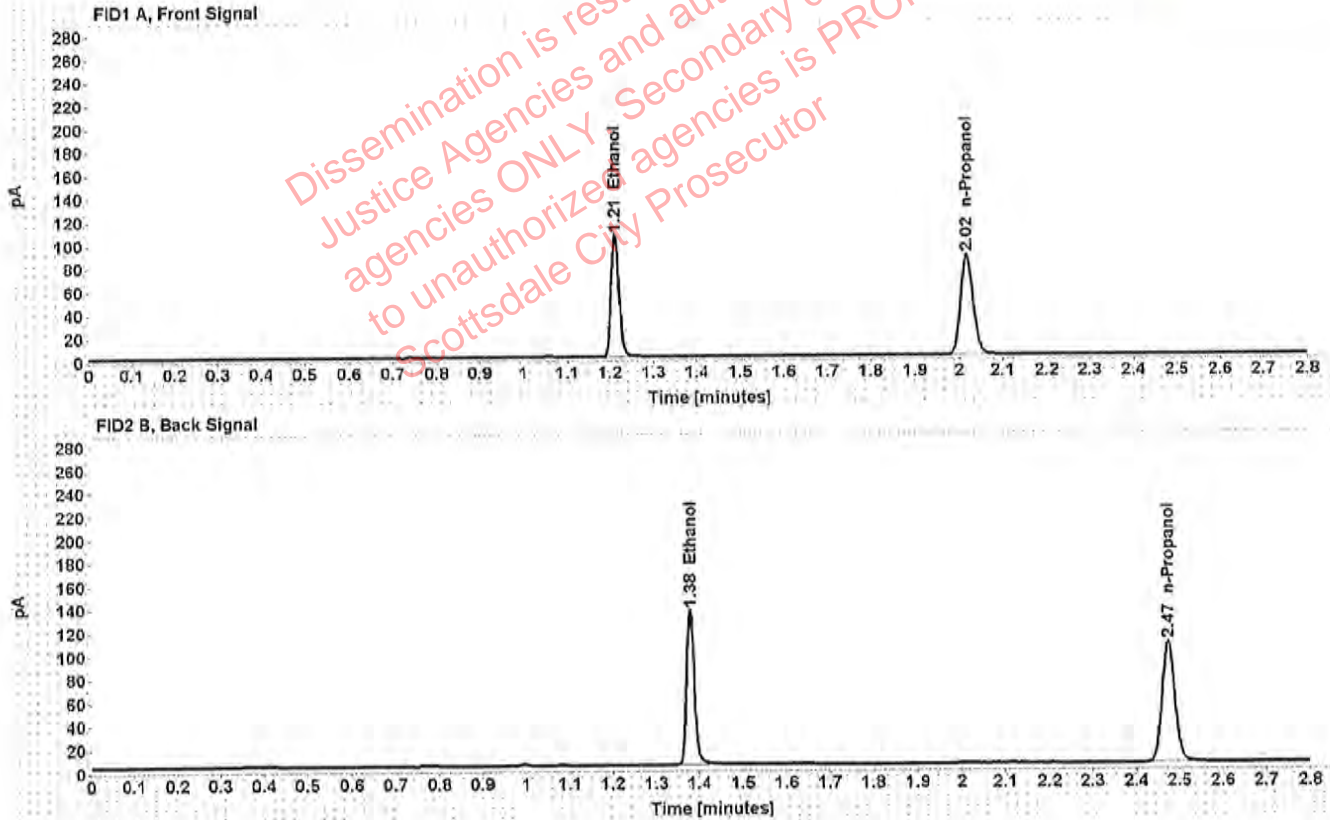


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2046	1.212	135.319
n-Propanol	-----	2.018	172.453

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

Compound	Time (min)	Peak Area
Ethanol	1.379	168.454
n-Propanol	2.474	212.160

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 28082014-B	Vial: 20
Description: 0.080	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 4:09:13 PM
Data file: C:\Chem32\1\Data\08May19\20.D	Analyst: Raines <i>[Signature]</i>

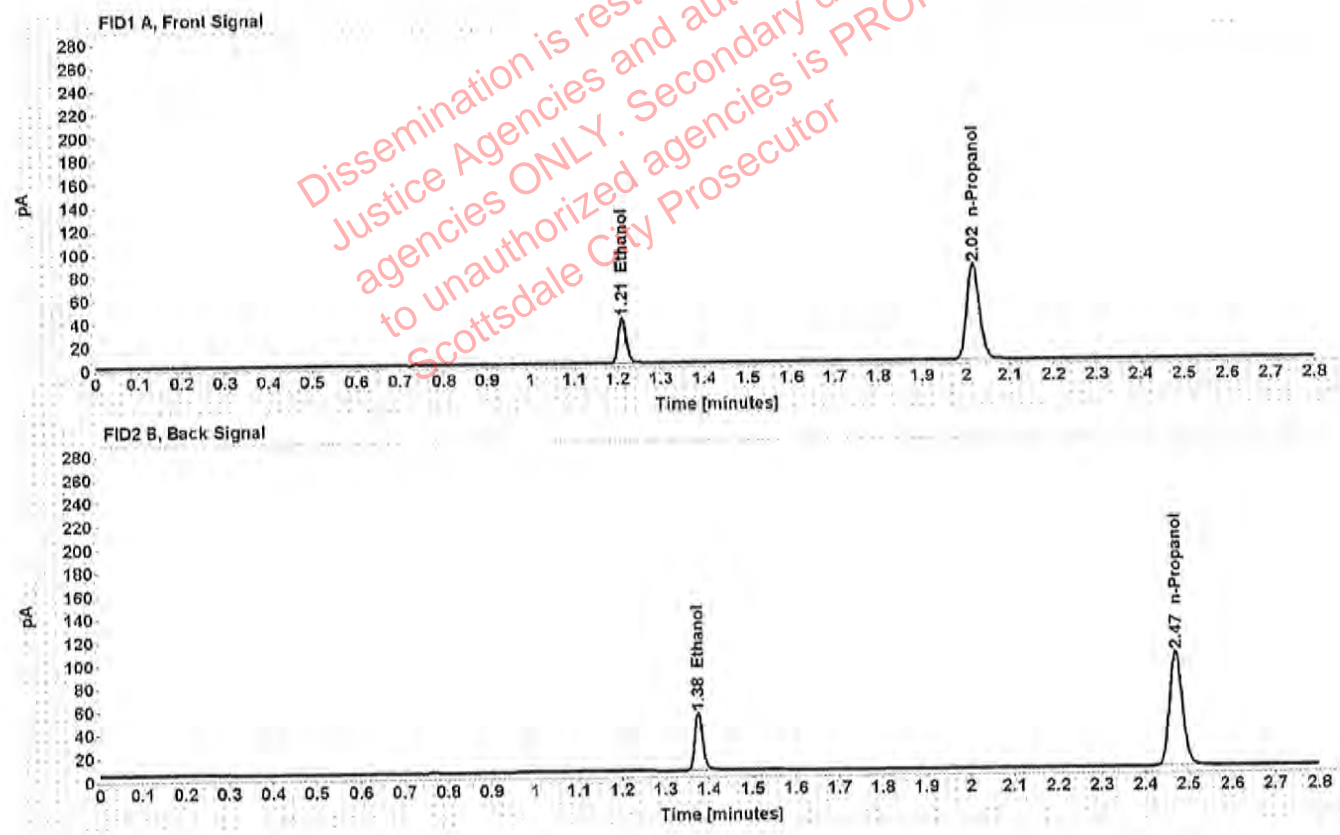


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0798	1.210	50.333
n-Propanol	-----	2.016	164.900

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

Compound	Time (min)	Peak Area
Ethanol	1.376	62.049
n-Propanol	2.471	202.152

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 08012015-C	Vial: 31
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 4:53:43 PM
Data file: C:\Chem3211\Data\08May19\31.D	Analyst: Raines <i>aw</i>

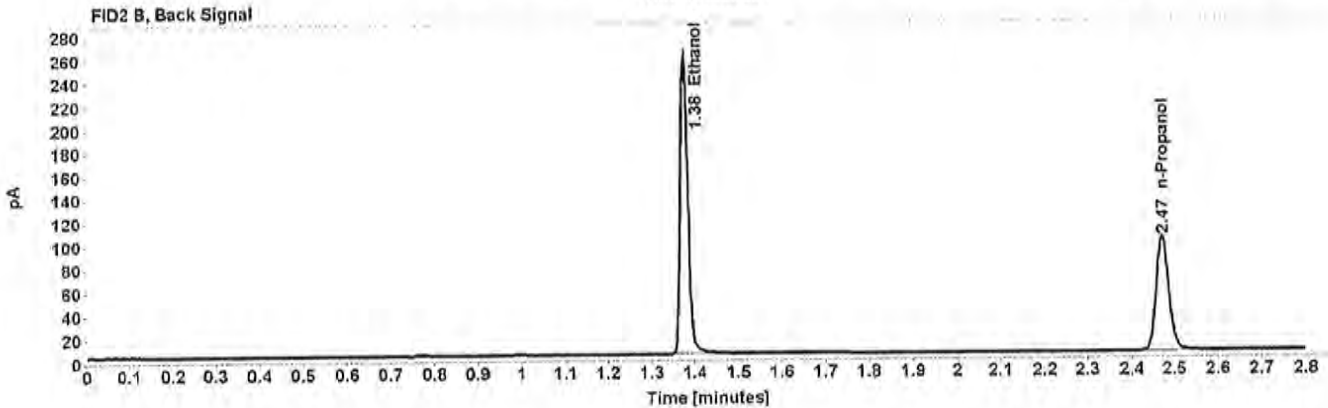
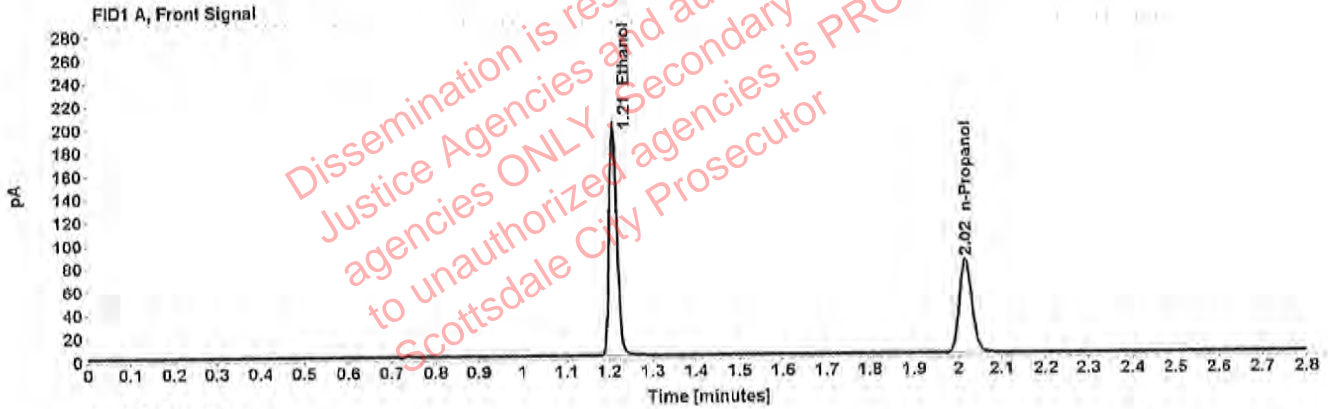


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4074	1.210	255.159
n-Propanol	-----	2.017	163.154

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

Compound	Time (min)	Peak Area
Ethanol	1.377	318.480
n-Propanol	2.472	200.850

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 09022015-A	Vial: 32
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 4:57:43 PM
Data file: C:\Chem32\1\Data\08May19\32.D	Analyst: Raines <i>lu</i>

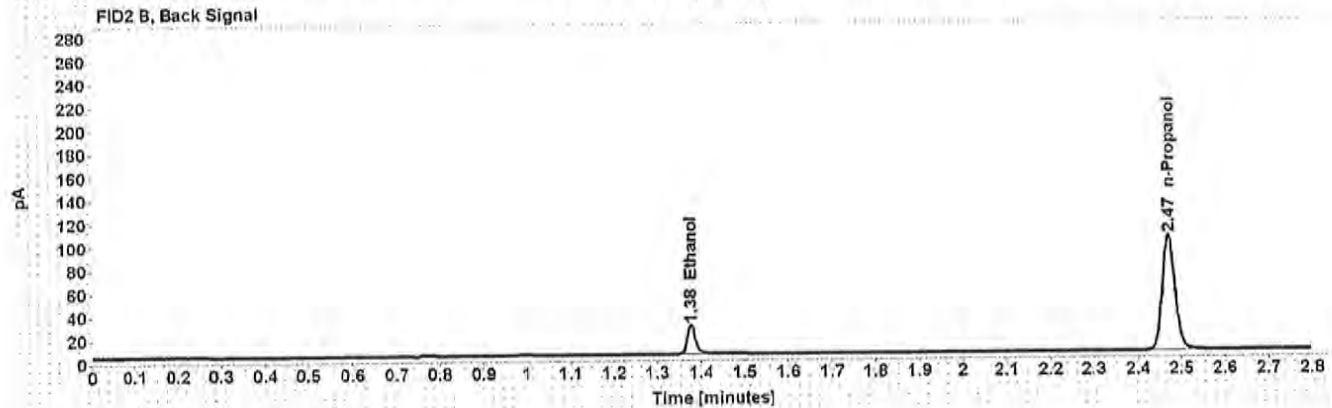
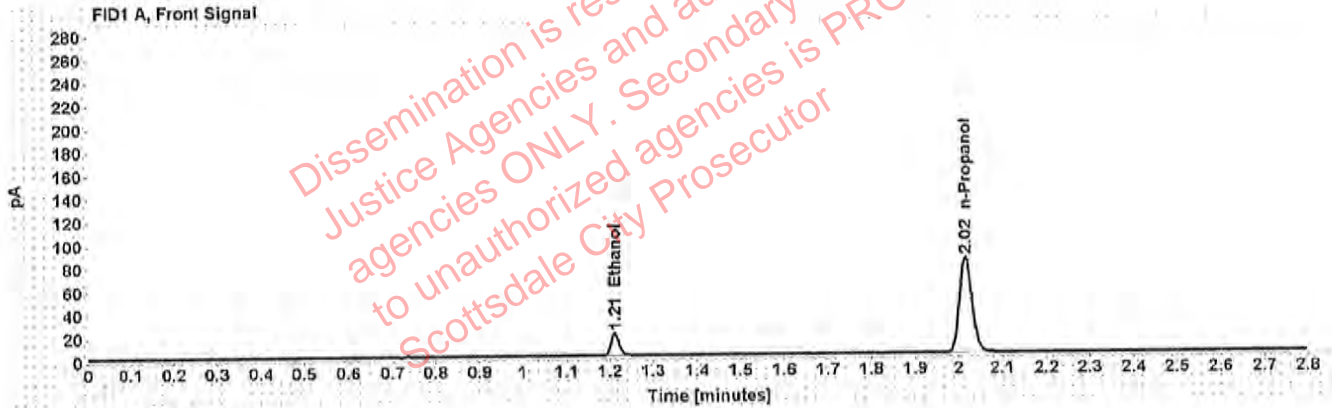


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0401	1.211	25.159
n-Propanol	-----	2.016	164.794

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

Compound	Time (min)	Peak Area
Ethanol	1.377	31.063
n-Propanol	2.471	202.498

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 407041529/13	<b>Vial:</b> 33
<b>Description:</b> 0.198	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 5:01:44 PM
<b>Data file:</b> C:\Chem321\Data\08May19\33.D	<b>Analyst:</b> Raines <i>MR</i>

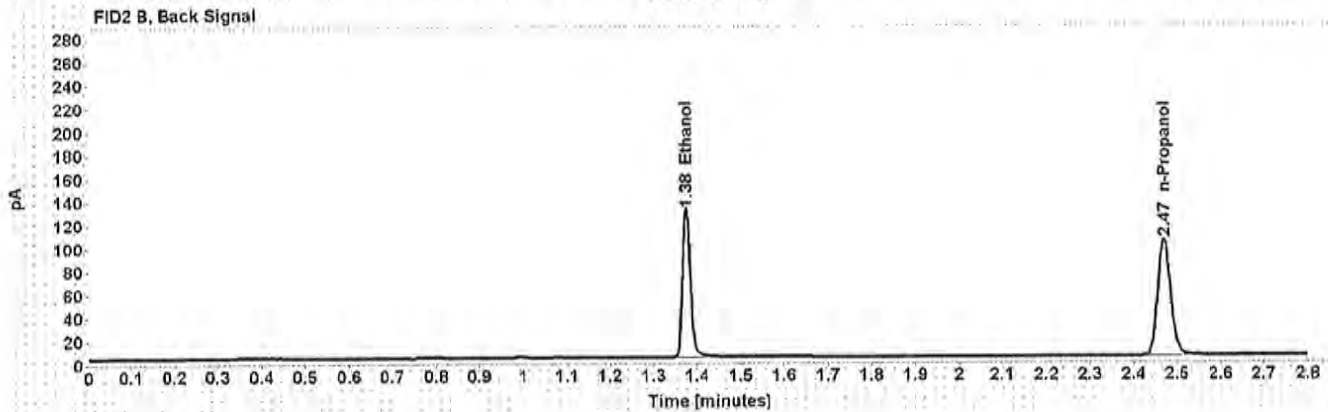
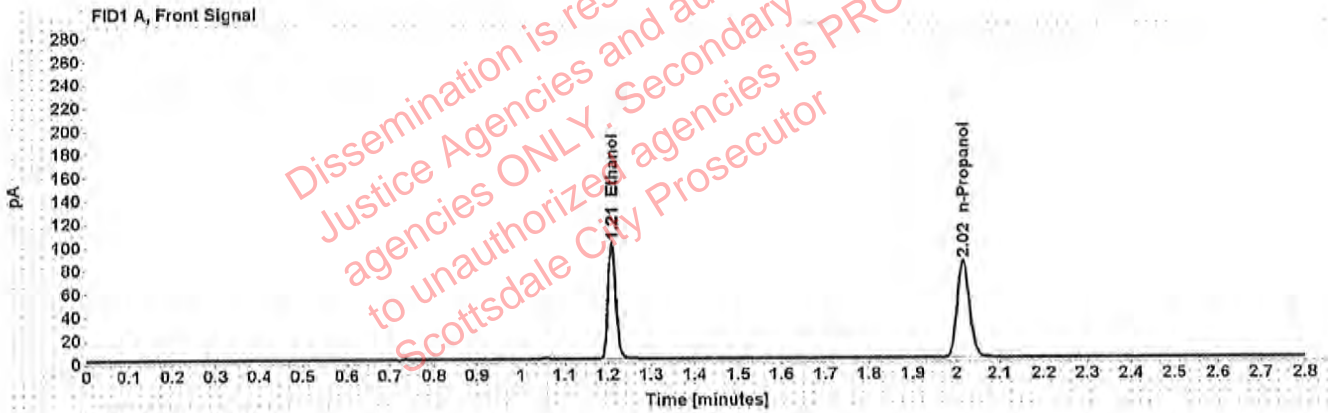


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2007	1.209	128.604
n-Propanol	-----	2.016	167.074

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

Compound	Time (min)	Peak Area
Ethanol	1.375	160.287
n-Propanol	2.471	205.549



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 121118	Vial: 34
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 08May19
Instrument: US14173023 CN14160045	Injection date: 5/8/2019 5:05:43 PM
Data file: C:\Chem32\1\Data\08May19\34.D	Analyst: Raines <i>WR</i>

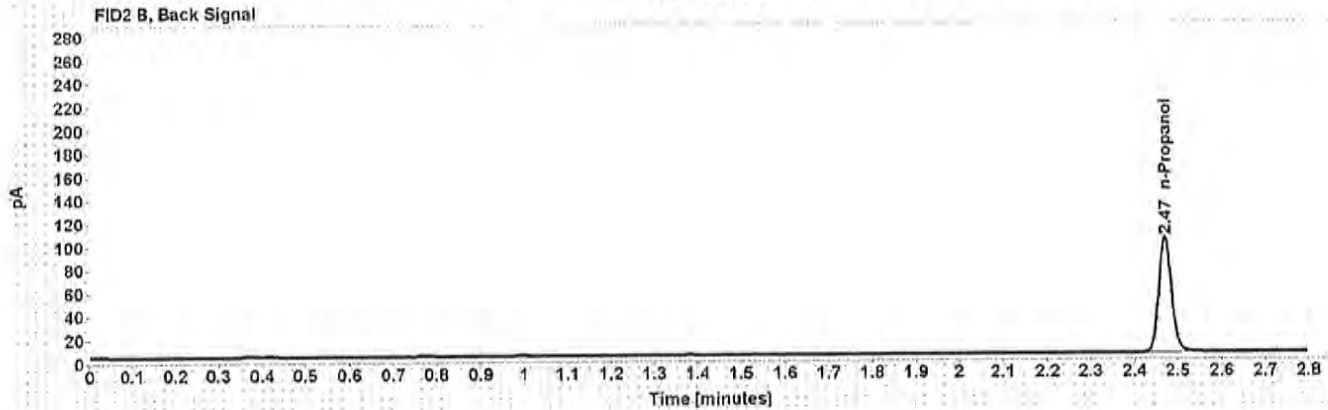
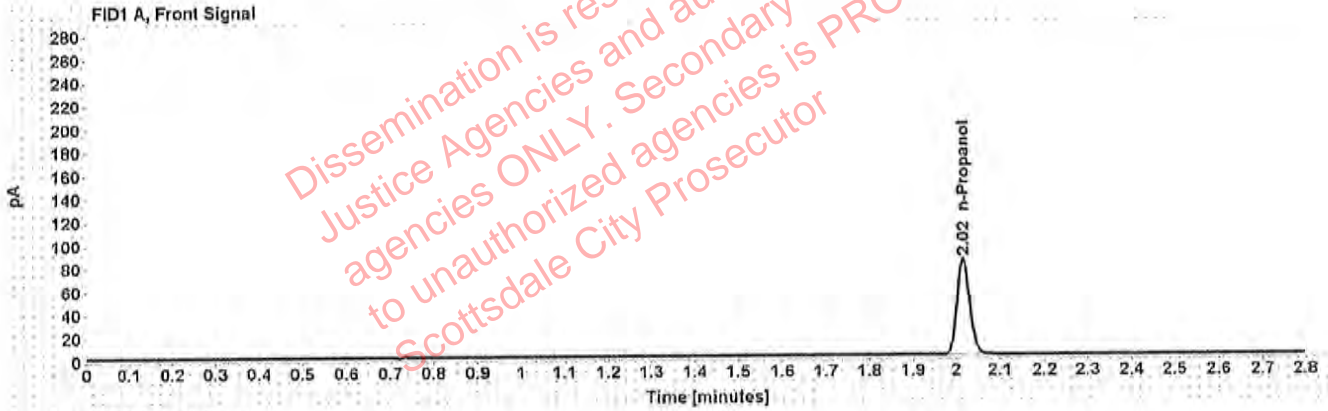


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	166.080

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

Compound	Time (min)	Peak Area
n-Propanol	2.471	203.994

# Scottsdale Police Department Crime Laboratory Summary of Cases

SEQUENCE NAME: 08May19

ANALYST: Raines *ML*

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1755	0.1745	0.17500	0.29	0.00050
12 13	0.1094	0.1091	0.10925	0.14	0.00015
14 15	0.0000	0.0000	0.00000	0.00	0.00000
16 17	0.1513	0.1496	0.15045	0.56	0.00085
18 19	0.2584	0.2580	0.25820	0.08	0.00020
21 22	0.1542	0.1538	0.15400	0.13	0.00020
23 24	0.0364	0.0353	0.03585	1.53	0.00055
25 26	0.2959	0.2971	0.29650	0.20	0.00060
27 28	0.1189	0.1187	0.11880	0.08	0.00010
29 30	0.2005	0.1989	0.19970	0.40	0.00080

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

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

Raines, Melinda E. - (20-May-2019)

Raines, Melinda E. - (09-May-2019)

Case [redacted] User: mraines 5/9/2019

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	Vial:	10
Description:	[redacted]	LIMS ID:	[redacted]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:28:43 PM
Data file:	C:\Chem32\1\Data\08May19\10.D	Analyst:	Raines

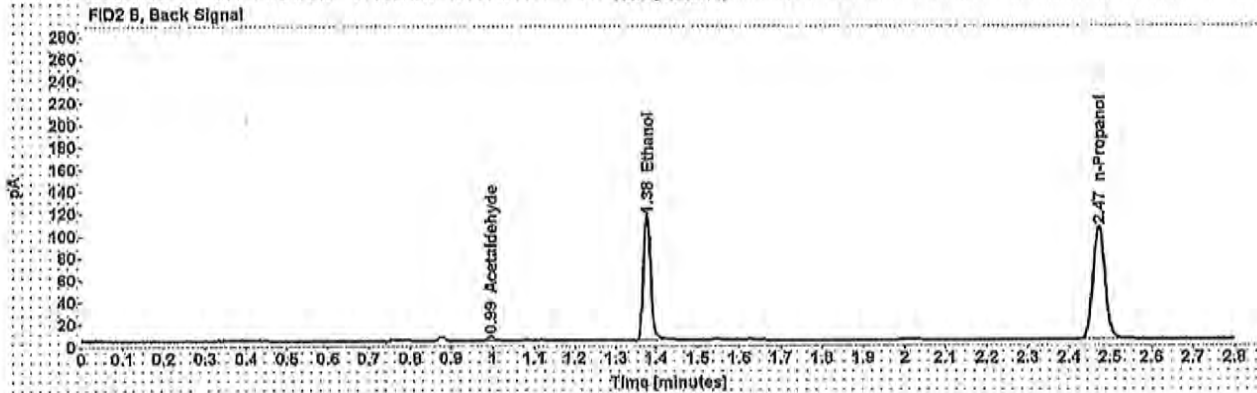
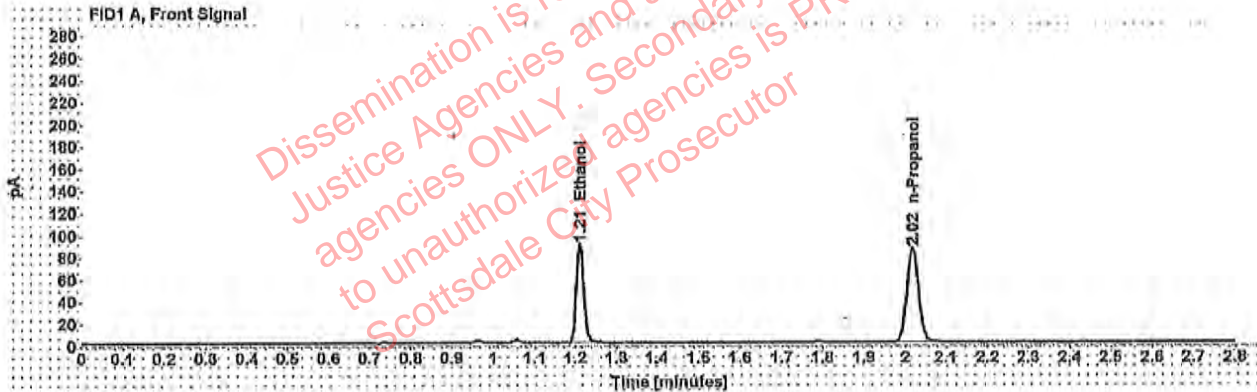


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1755	1.210	114.227
n-Propanol	-----	2.017	169.690

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.995	3.878
Ethanol	1.377	141.438
n-Propanol	2.472	208.888

[REDACTED]: Raines, Melinda E. - (20-May-2019)

[REDACTED] Raines, Melinda E. - (09-May-2019)

Case [REDACTED] User: mraines 5/9/2019

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	11
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:32:43 PM
Data file:	C:\Chem32\1\Data\08May19\11.D	Analyst:	Raines

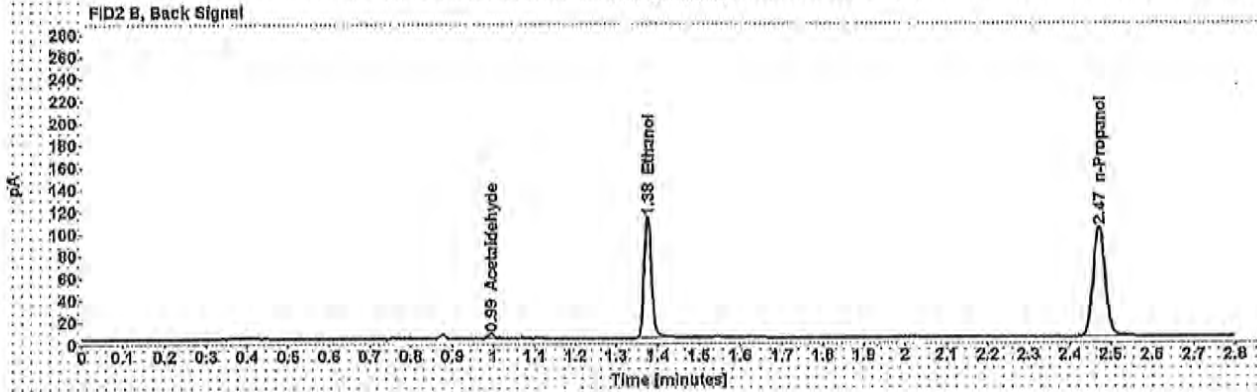
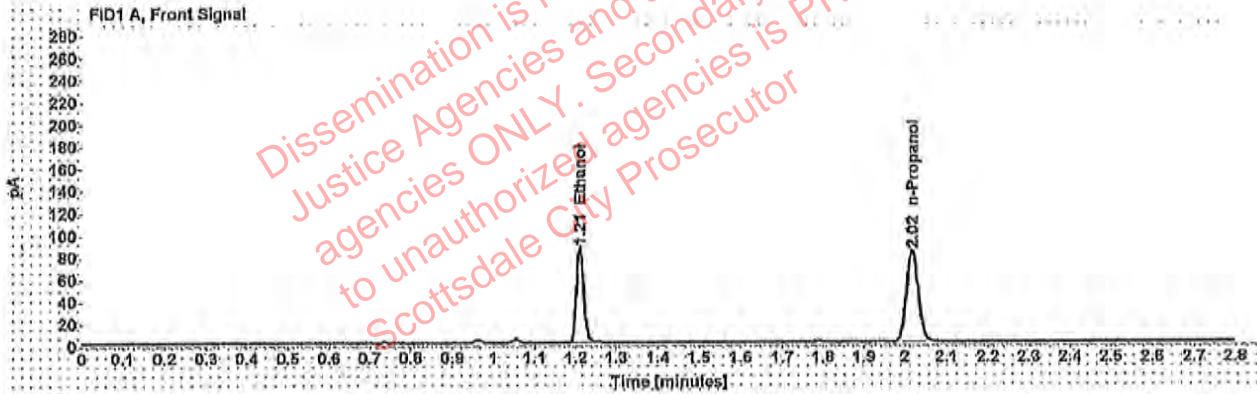


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1745	1.210	110.392
n-Propanol	---	2.016	165.001

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.066
Ethanol	1.376	136.502
n-Propanol	2.471	203.255

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	12
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:36:43 PM
Data file:	C:\Chem321\Data\08May19\12.D	Analyst:	Raines

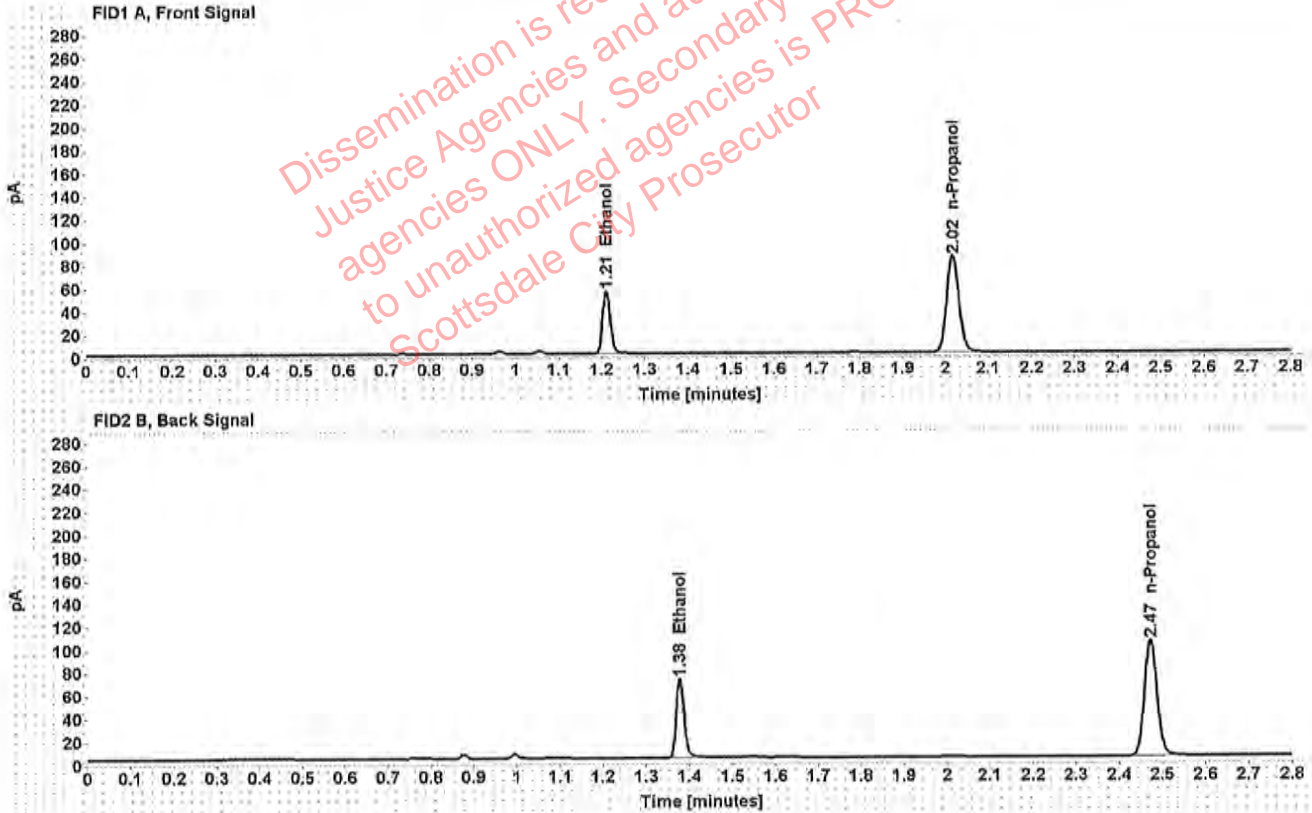


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1094	1.211	70.173
n-Propanol	-----	2.017	167.383

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

Compound	Time (min)	Peak Area
Ethanol	1.378	86.881
n-Propanol	2.472	205.780

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	13
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:40:58 PM
Data file:	C:\Chem32\1\Data\08May19\13.D	Analyst:	Raines

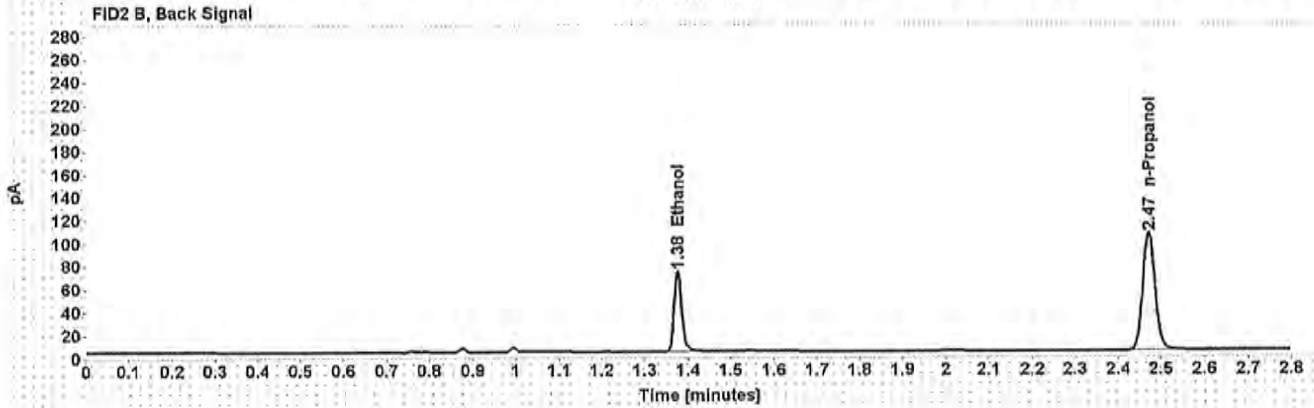
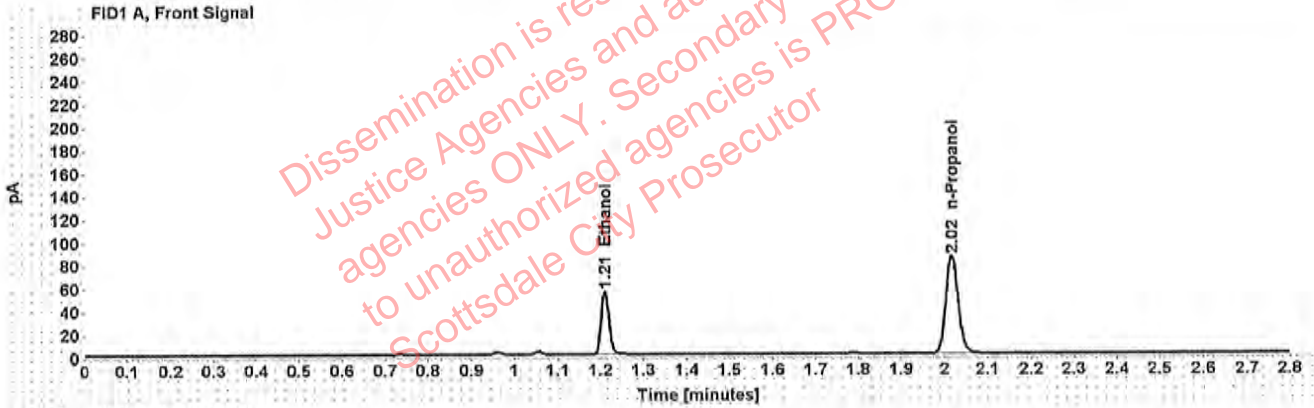


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1091	1.210	70.733
n-Propanol	-----	2.016	169.225

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

Compound	Time (min)	Peak Area
Ethanol	1.376	87.347
n-Propanol	2.471	208.099

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	14
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:44:58 PM
Data file:	C:\Chem32\1\Data\08May19\14.D	Analyst:	Raines

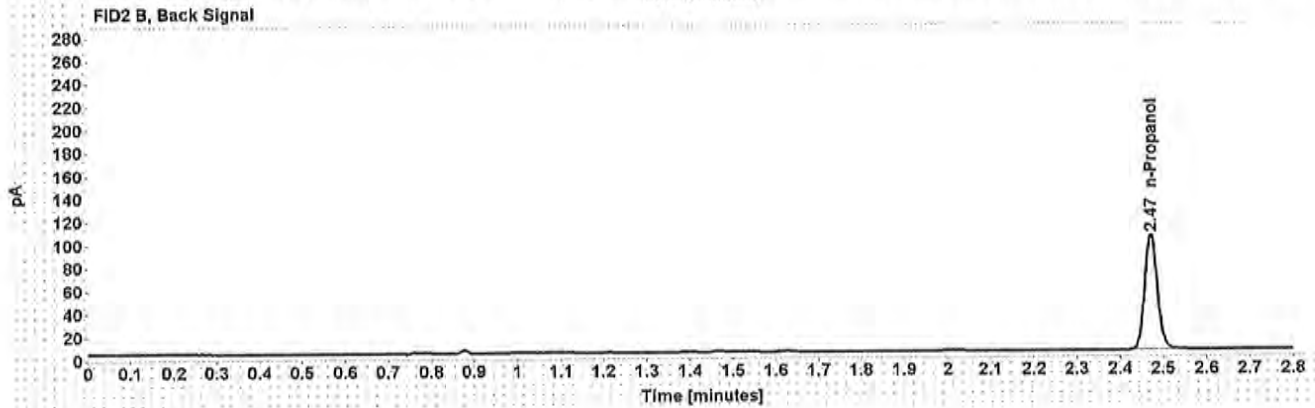
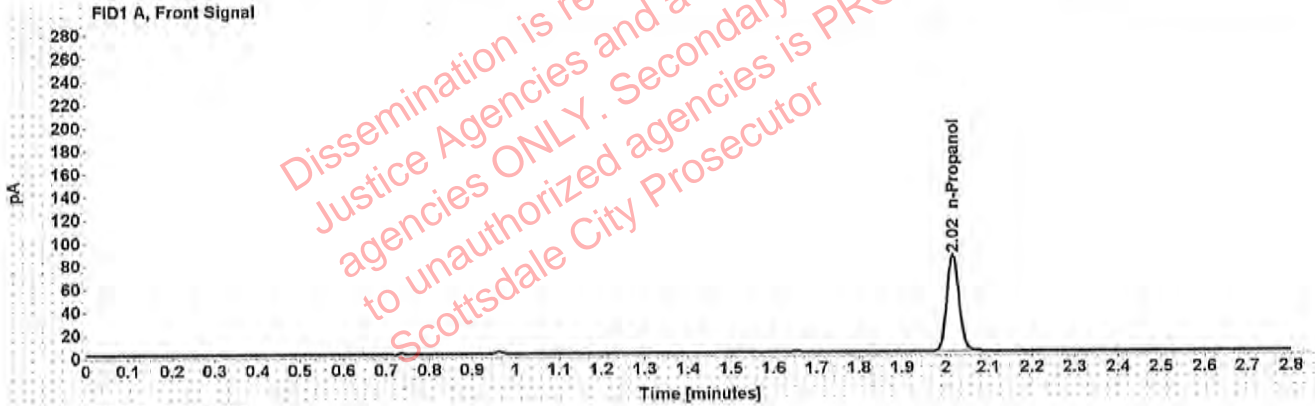


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	166.236

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

Compound	Time (min)	Peak Area
n-Propanol	2.472	204.526

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	15
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:48:58 PM
Data file:	C:\Chem32\1\Data\08May19\15.D	Analyst:	Raines

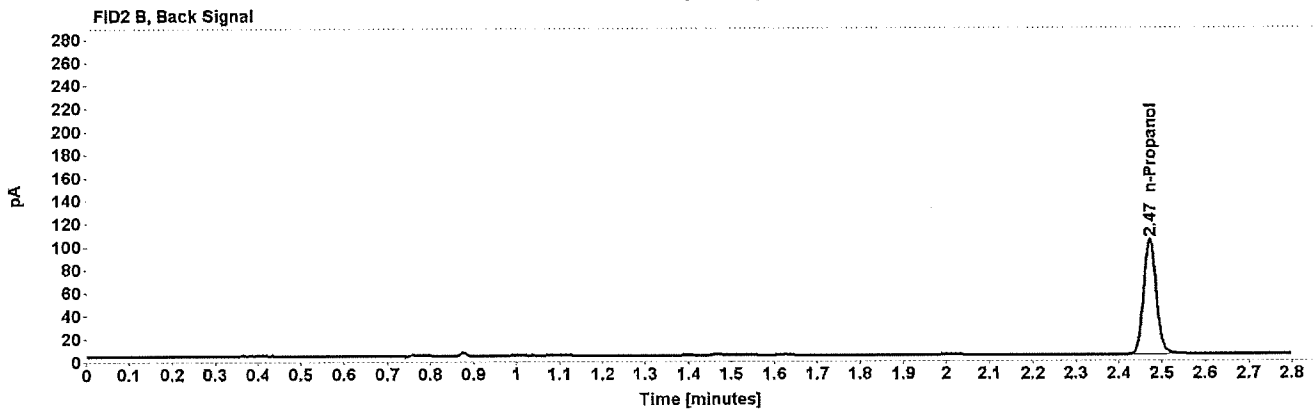
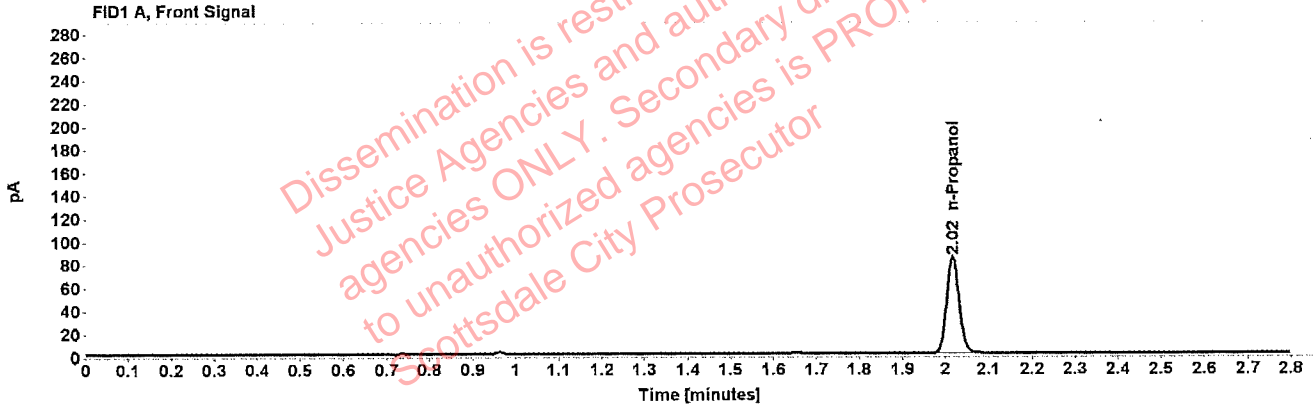


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	166.280

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

Compound	Time (min)	Peak Area
n-Propanol	2.472	204.591



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	16
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:52:59 PM
Data file:	C:\Chem32\1\Data\08May19\16.D	Analyst:	Raines

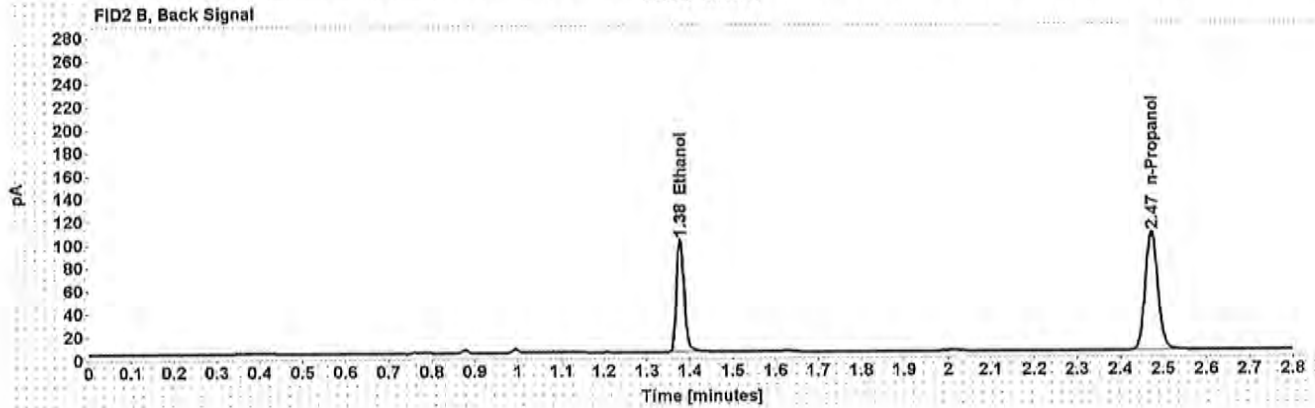
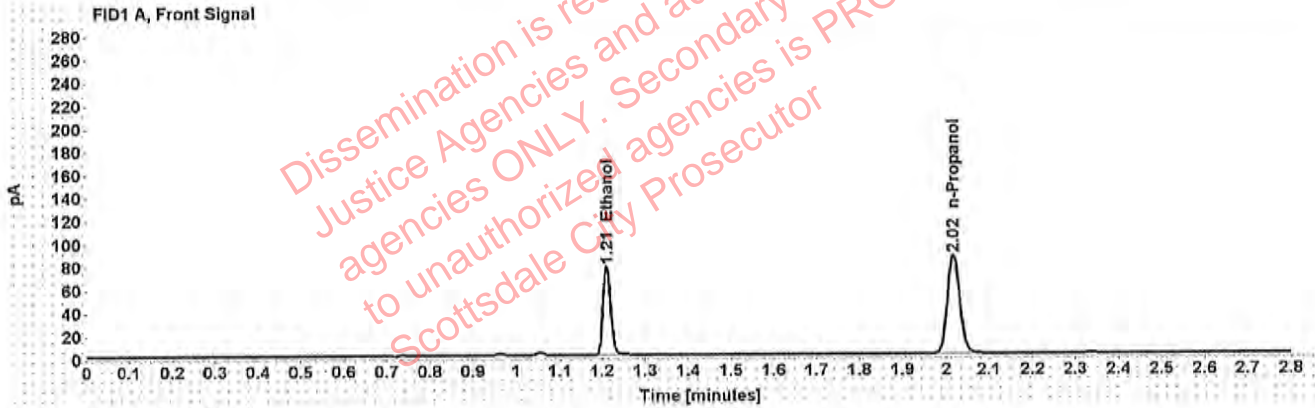


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1513	1.211	99.162
n-Propanol	-----	2.017	170.913

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

Compound	Time (min)	Peak Area
Ethanol	1.377	122.966
n-Propanol	2.472	210.139

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	17
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 3:56:58 PM
Data file:	C:\Chem32\1\Data\08May19\17.D	Analyst:	Raines

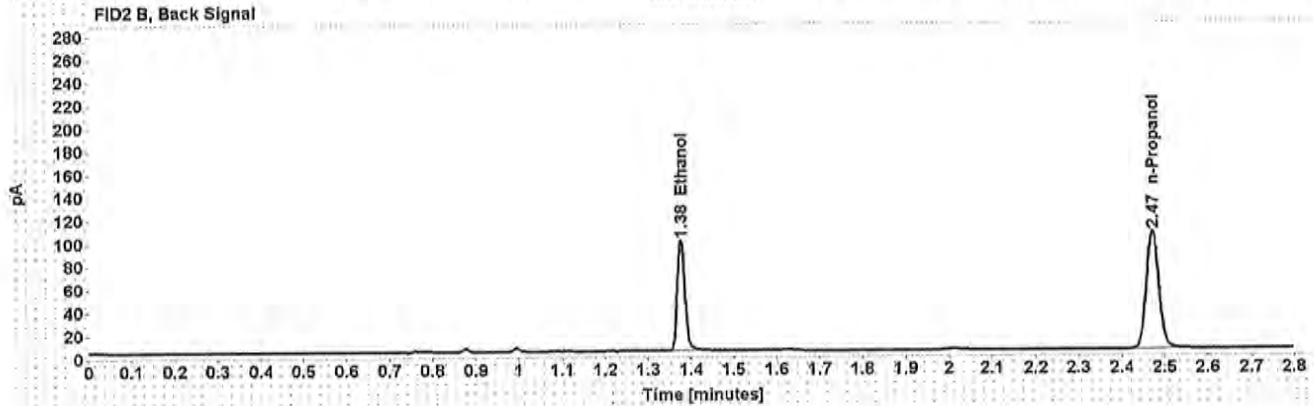
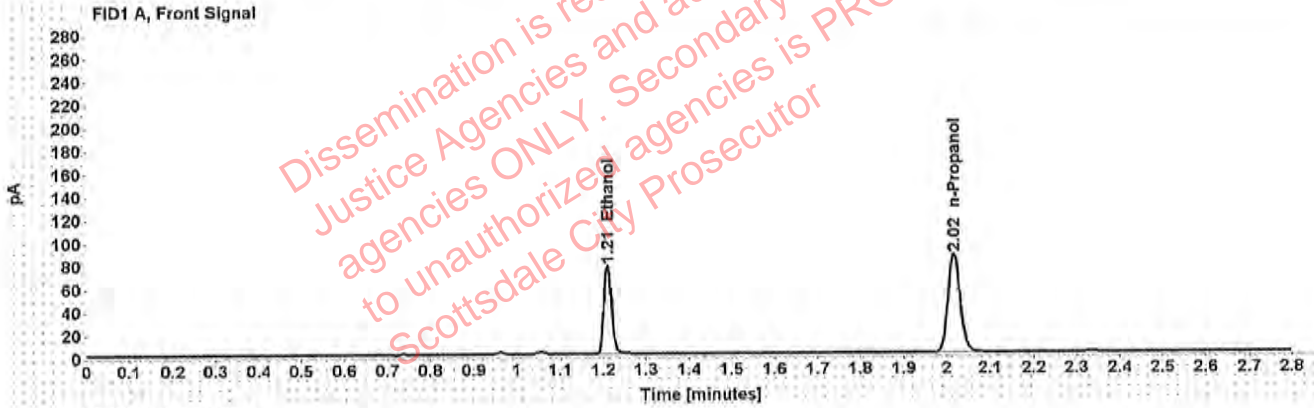


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1496	1.210	97.546
n-Propanol	-----	2.016	170.049

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

Compound	Time (min)	Peak Area
Ethanol	1.376	121.219
n-Propanol	2.471	209.401

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	18
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:00:58 PM
Data file:	C:\Chem32\1\Data\08May19\18.D	Analyst:	Raines

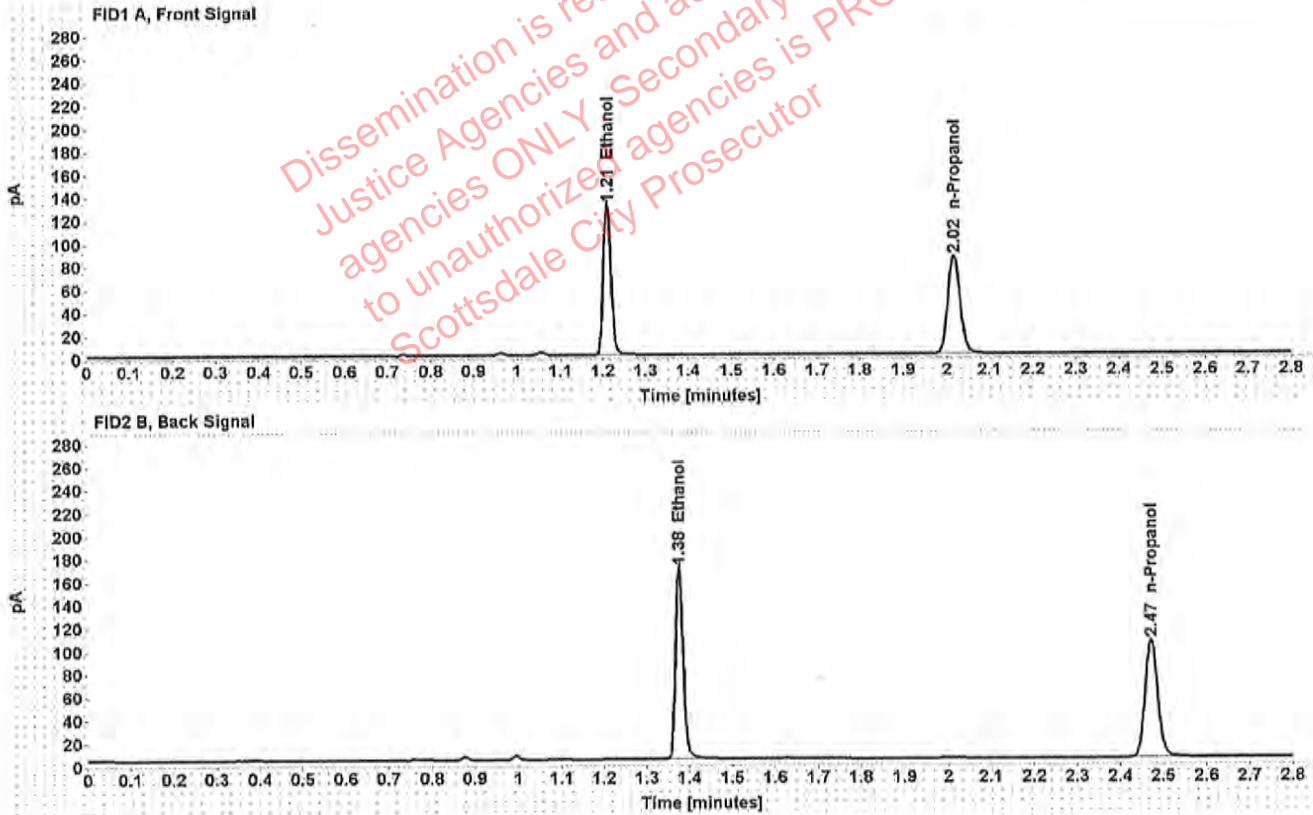


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2584	1.210	167.999
n-Propanol	-----	2.017	169.426

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

Compound	Time (min)	Peak Area
Ethanol	1.376	210.574
n-Propanol	2.472	208.412

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	19
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:05:14 PM
Data file:	C:\Chem32\1\Data\08May19\19.D	Analyst:	Raines

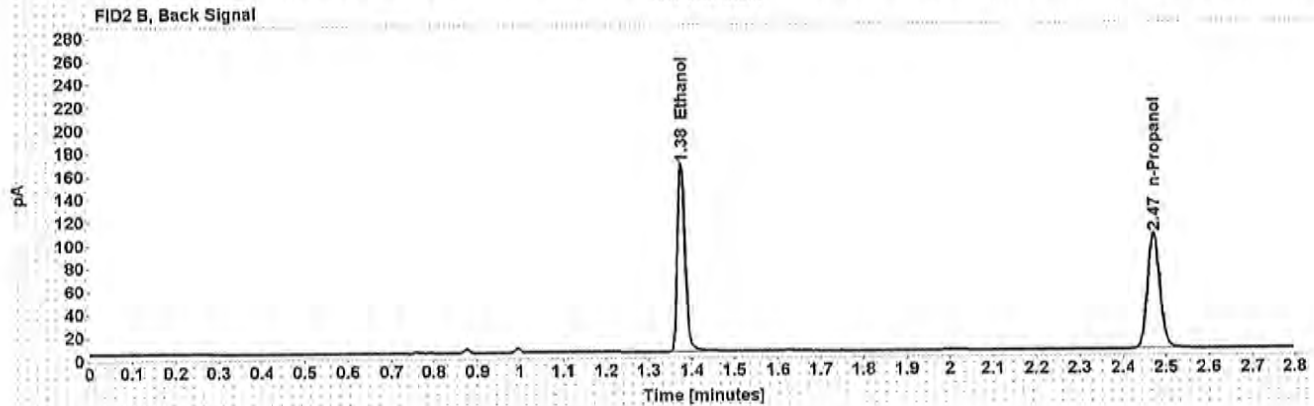
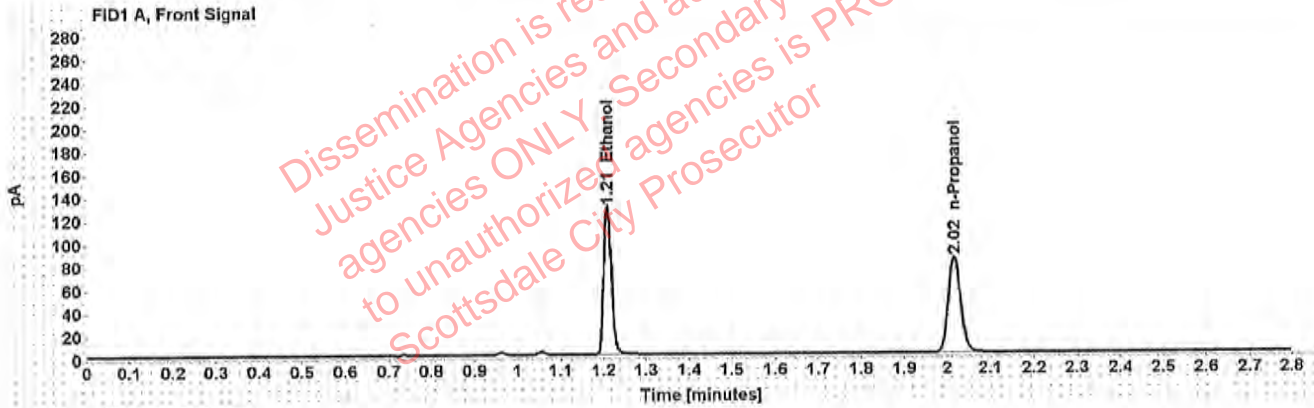


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2580	1.209	164.398
n-Propanol	-----	2.016	166.106

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

Compound	Time (min)	Peak Area
Ethanol	1.376	205.906
n-Propanol	2.471	204.234

Raines, Melinda E. - (20-May-2019)

Raines, Melinda E. - (09-May-2019)

Case: [REDACTED] User: mraines 5/9/2019

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	21
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:13:13 PM
Data file:	C:\Chem32\1\Data\08May19\21.D	Analyst:	Raines

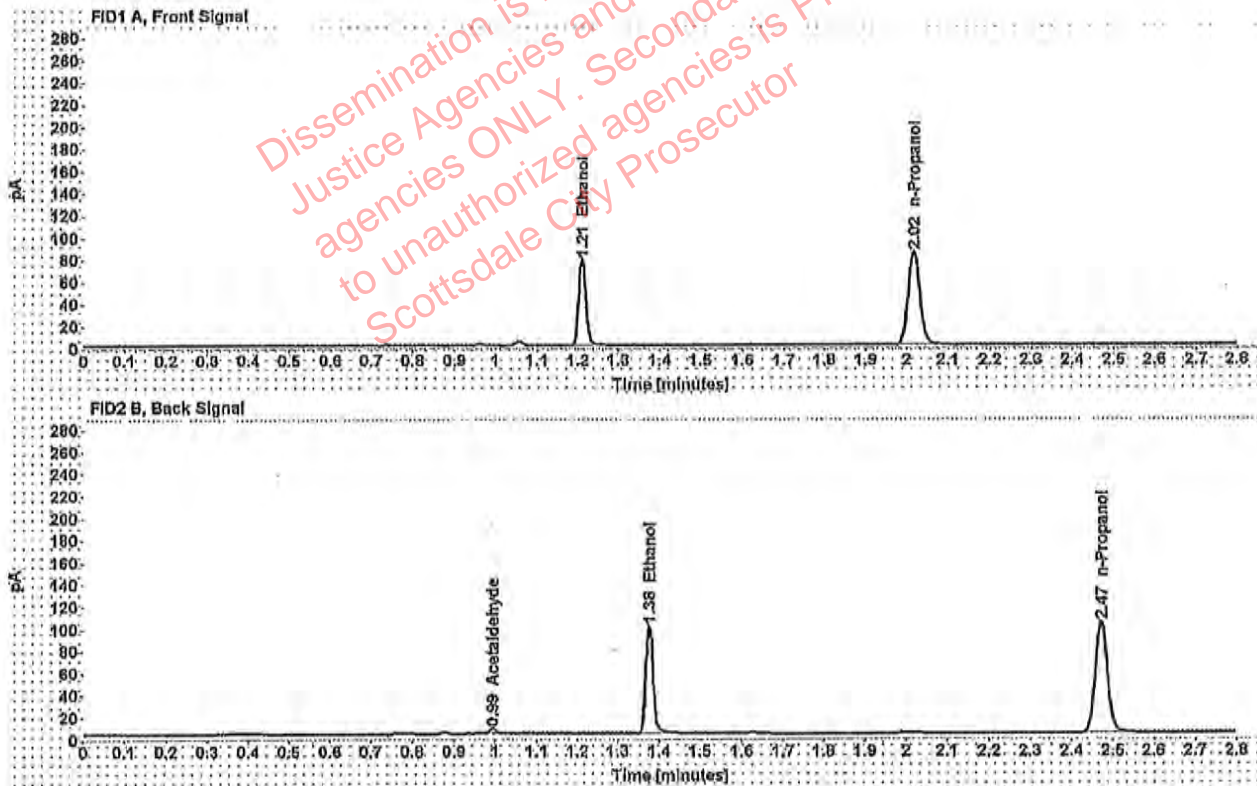


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1542	1.210	99.061
n-Propanol	-----	2.016	167.583

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.648
Ethanol	1.376	122.319
n-Propanol	2.471	205.920

Raines, Melinda E. - (20-May-2019)

Raines, Melinda E. - (09-May-2019)

Case: [redacted] User: mraines 5/9/2019

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	Vial:	22
Description:	[redacted]	LIMS ID:	[redacted]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:17:14 PM
Data file:	C:\Chem32\1\Data\08May19\22.D	Analyst:	Raines

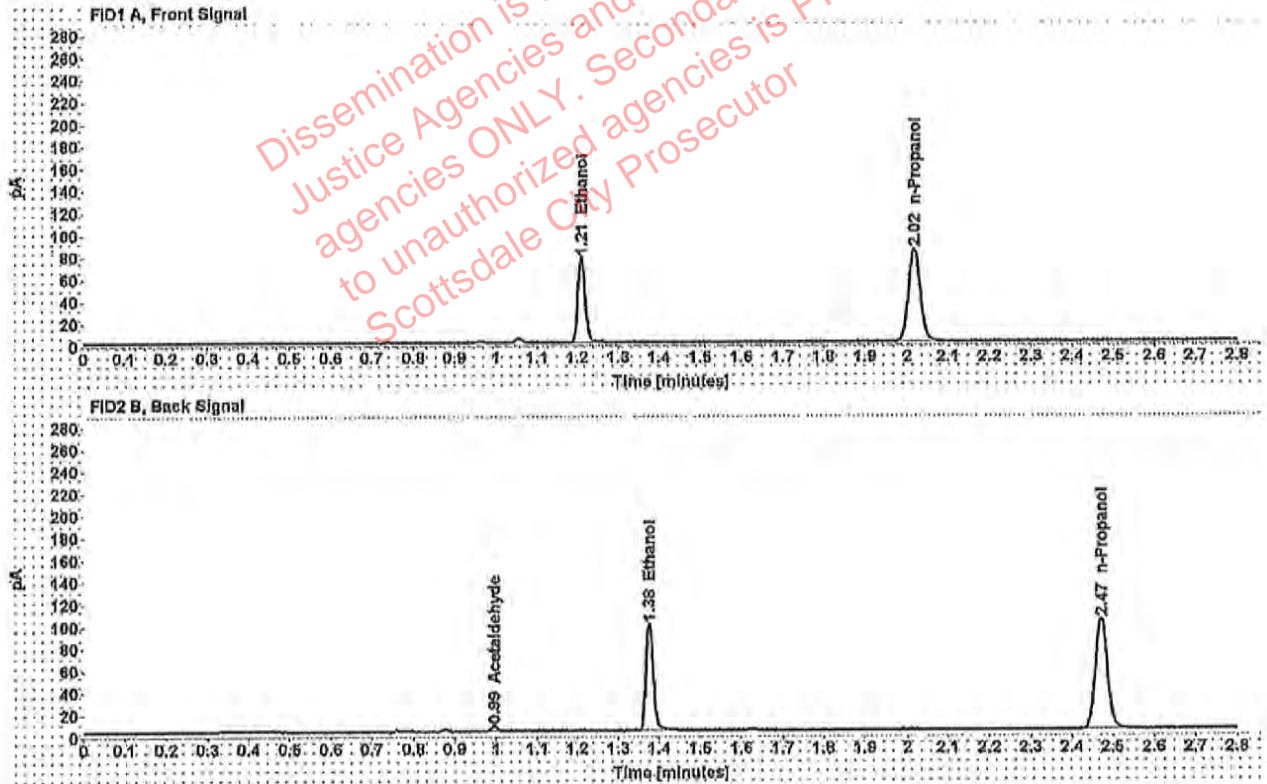


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1538	1.210	98.089
n-Propanol	-----	2.016	166.331

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.698
Ethanol	1.376	121.419
n-Propanol	2.471	204.441

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	23
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:21:13 PM
Data file:	C:\Chem32\1\Data\08May19\23.D	Analyst:	Raines

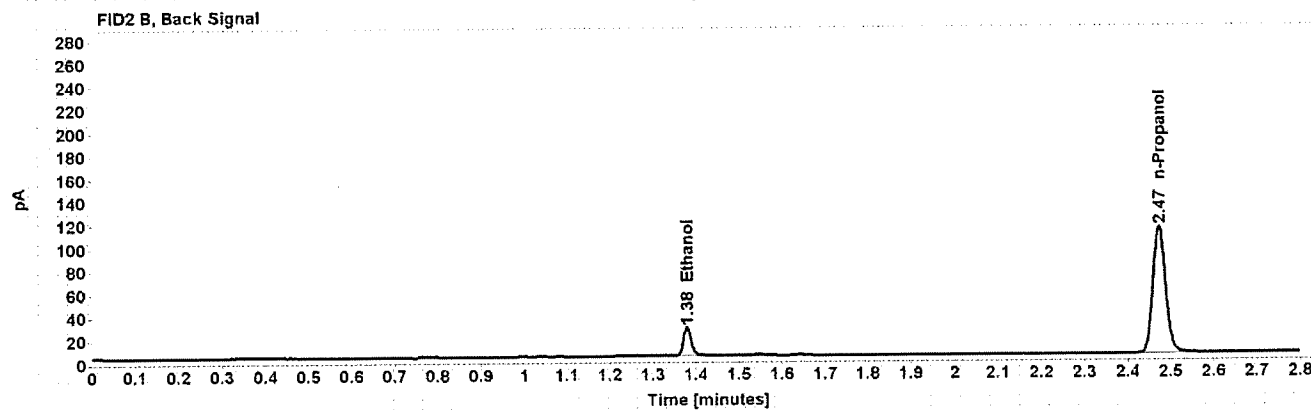
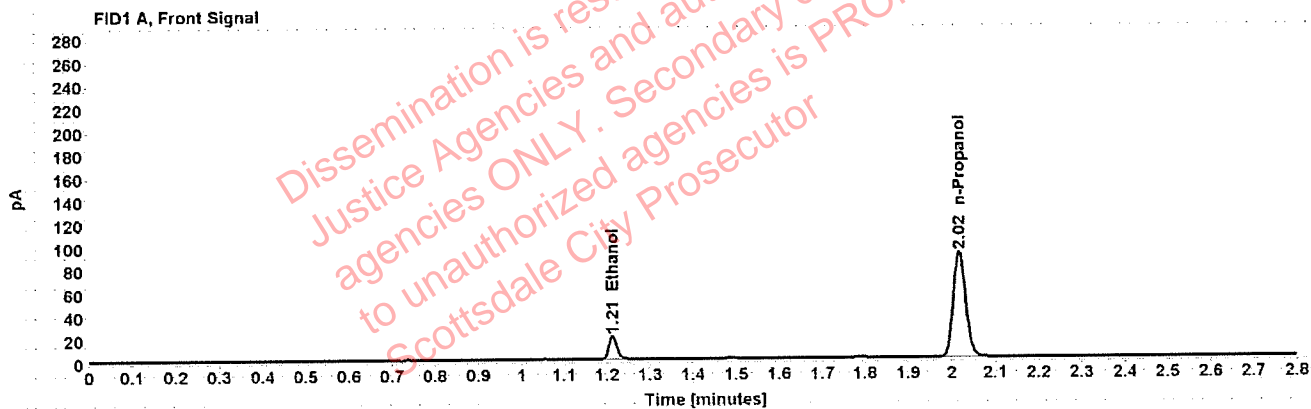


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0364	1.213	25.325
n-Propanol	-----	2.018	182.775

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

Compound	Time (min)	Peak Area
Ethanol	1.379	31.103
n-Propanol	2.473	224.657

6/13

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	24
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:25:14 PM
Data file:	C:\Chem32\1\Data\08May19\24.D	Analyst:	Raines

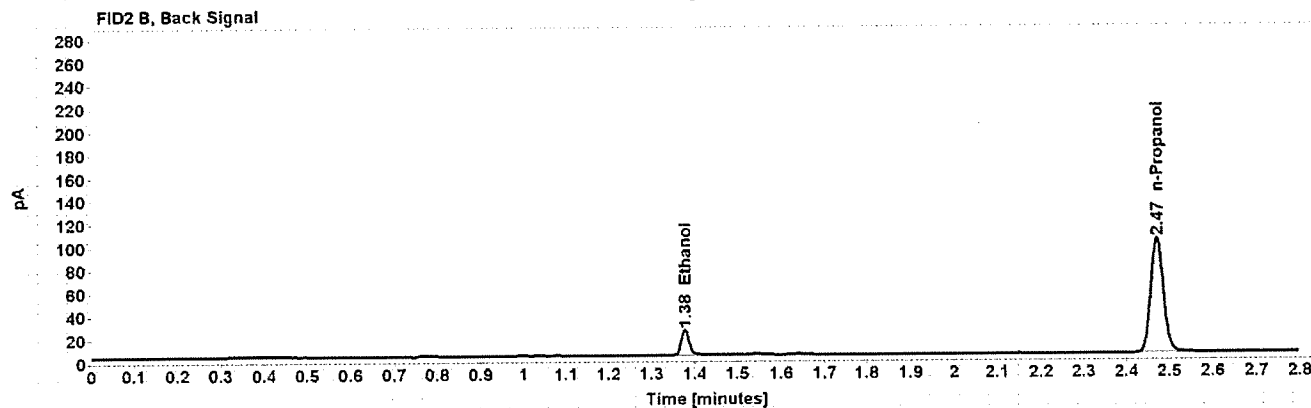


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0353	1.211	22.224
n-Propanol	-----	2.016	165.340

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

Compound	Time (min)	Peak Area
Ethanol	1.377	27.416
n-Propanol	2.471	203.189



## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Vial:</b> 25
<b>Description:</b> [REDACTED]	<b>LIMS ID:</b> [REDACTED]
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 4:29:29 PM
<b>Data file:</b> C:\Chem32\1\Data\08May19\25.D	<b>Analyst:</b> Raines

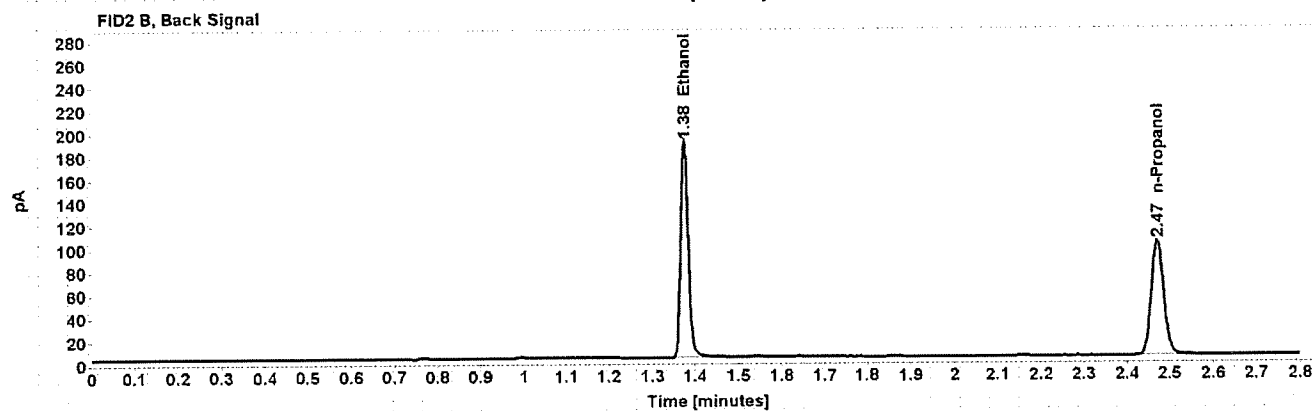
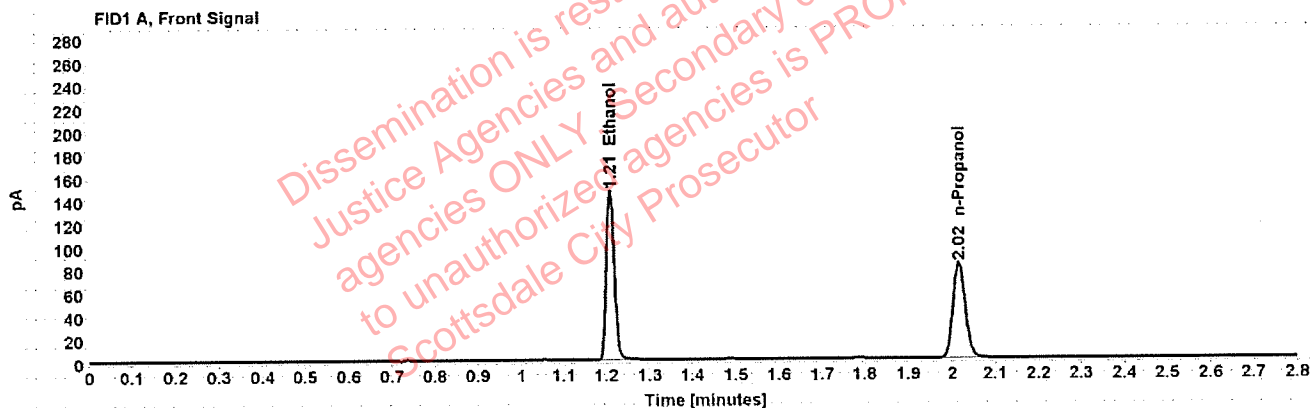


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2959	1.209	187.814
n-Propanol	-----	2.016	165.424

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

Compound	Time (min)	Peak Area
Ethanol	1.375	234.641
n-Propanol	2.471	203.681

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	26
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08May19
Instrument:	US14173023 CN14160045	Injection date:	5/8/2019 4:33:28 PM
Data file:	C:\Chem32\1\Data\08May19\26.D	Analyst:	Raines

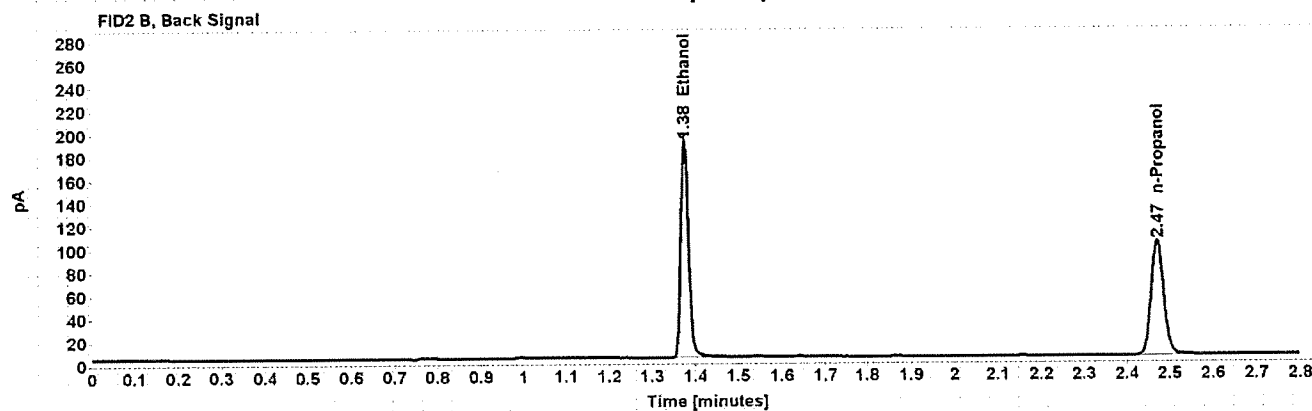
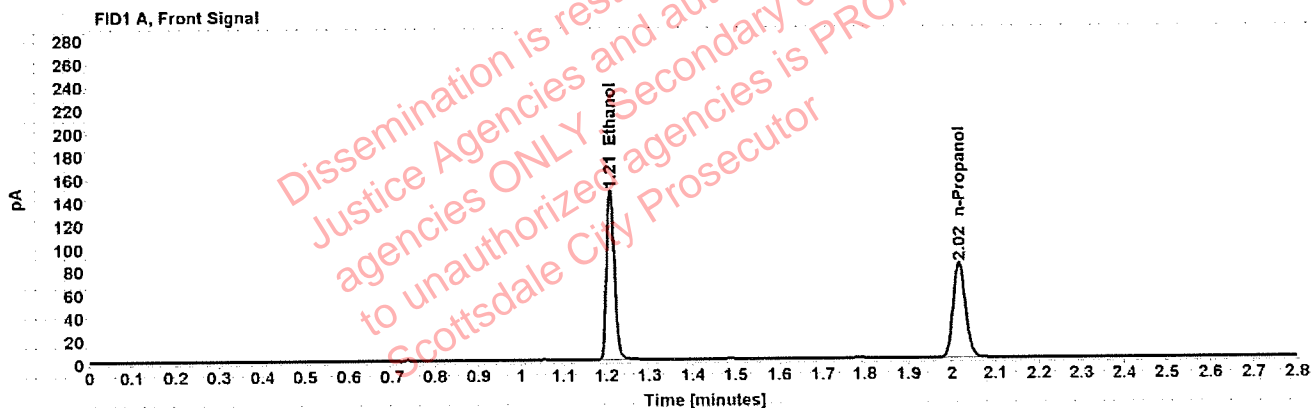


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2971	1.209	187.953
n-Propanol	-----	2.016	164.854

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

Compound	Time (min)	Peak Area
Ethanol	1.375	235.202
n-Propanol	2.471	202.713

9/13

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Vial:</b> 27
<b>Description:</b> [REDACTED]	<b>LIMS ID:</b> [REDACTED]
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 4:37:28 PM
<b>Data file:</b> C:\Chem32\1\Data\08May19\27.D	<b>Analyst:</b> Raines

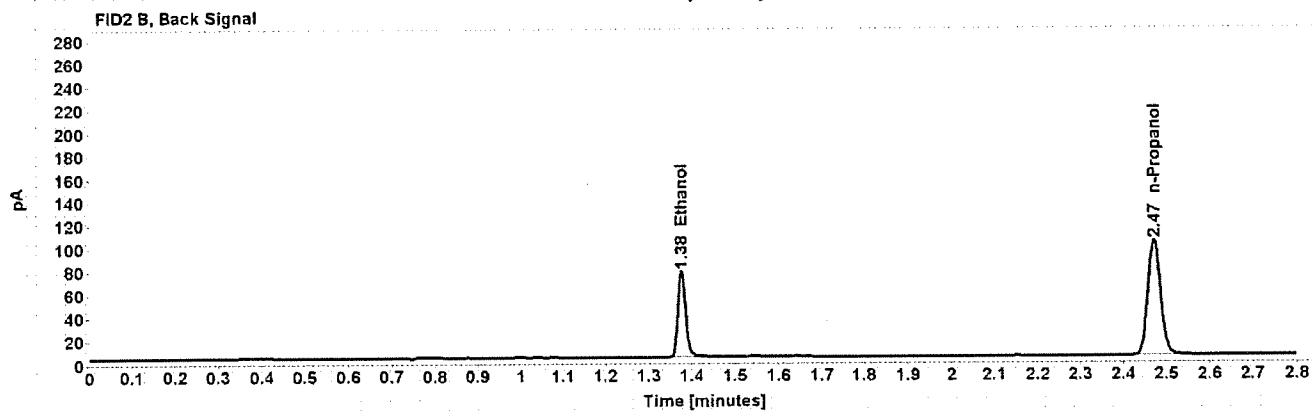
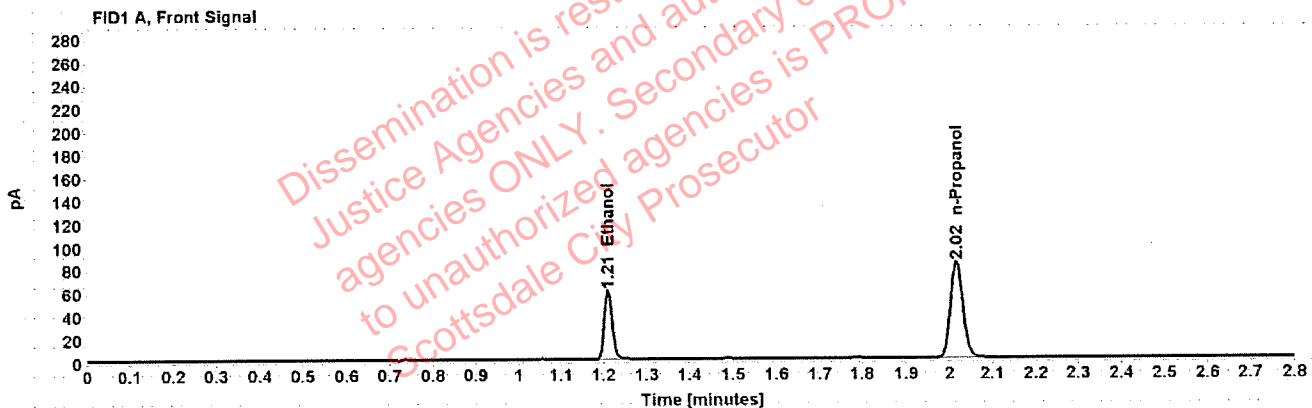


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1189	1.210	75.779
n-Propanol	-----	2.016	166.378

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

Compound	Time (min)	Peak Area
Ethanol	1.376	93.625
n-Propanol	2.471	204.720

10/13

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Vial:</b> 28
<b>Description:</b> [REDACTED]	<b>LIMS ID:</b> [REDACTED]
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 4:41:29 PM
<b>Data file:</b> C:\Chem32\1\Data\08May19\28.D	<b>Analyst:</b> Raines

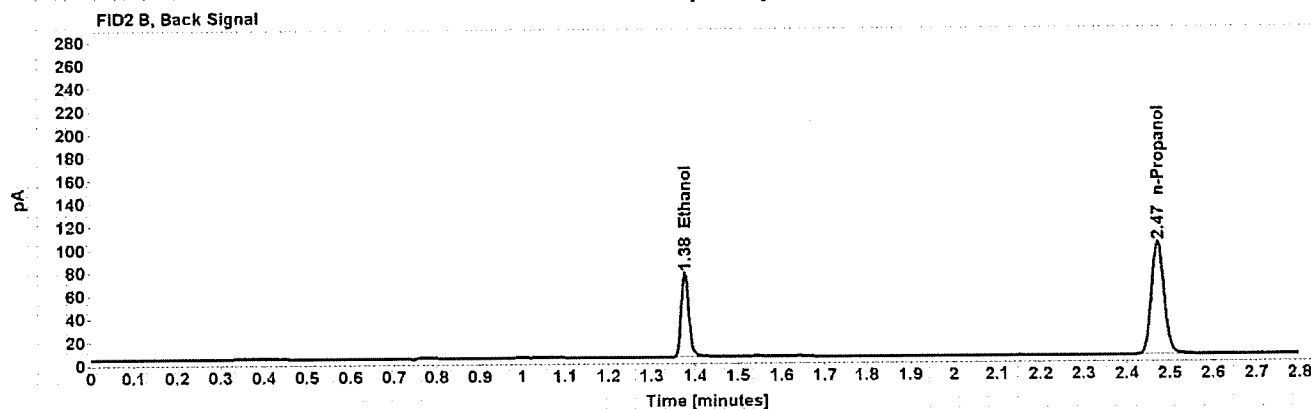
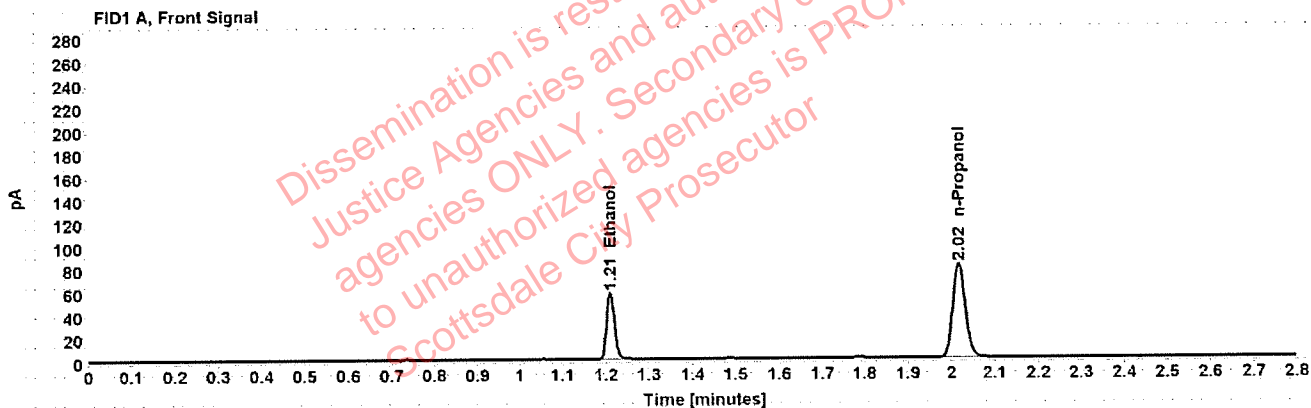


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1187	1.210	74.064
n-Propanol	-----	2.016	162.868

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

Compound	Time (min)	Peak Area
Ethanol	1.376	91.227
n-Propanol	2.471	200.121

11/13

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Vial:</b> 29
<b>Description:</b> [REDACTED]	<b>LIMS ID:</b> [REDACTED]
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 4:45:28 PM
<b>Data file:</b> C:\Chem32\1\Data\08May19\29.D	<b>Analyst:</b> Raines

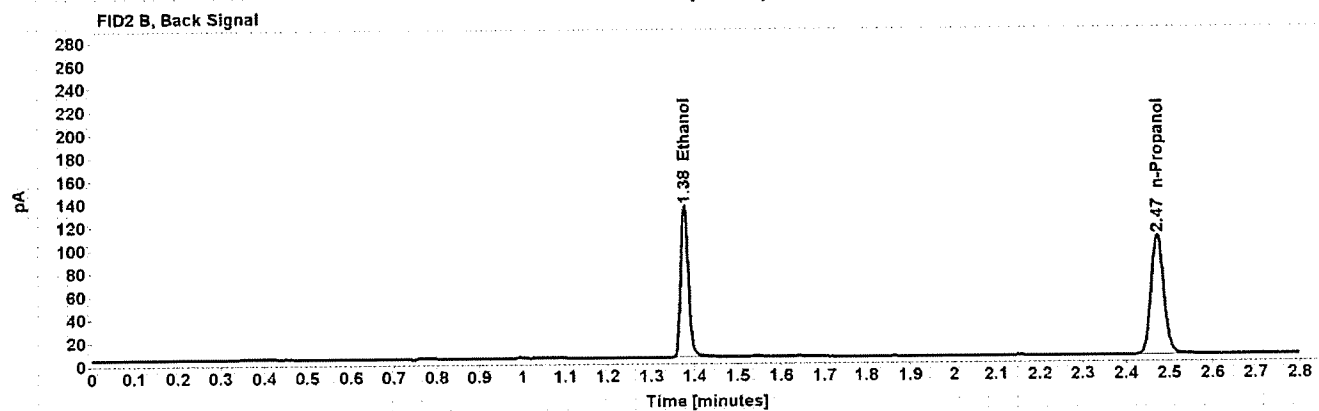
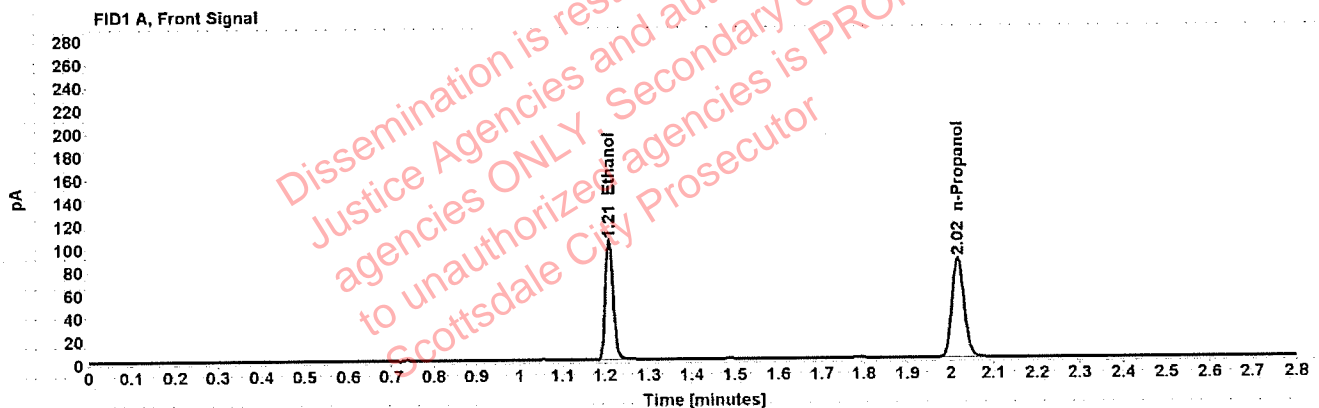


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2005	1.210	132.523
n-Propanol	-----	2.017	172.286

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

Compound	Time (min)	Peak Area
Ethanol	1.376	163.904
n-Propanol	2.472	212.108

## Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> [REDACTED]	<b>Vial:</b> 30
<b>Description:</b> [REDACTED]	<b>LIMS ID:</b> [REDACTED]
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 08May19
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 5/8/2019 4:49:29 PM
<b>Data file:</b> C:\Chem32\1\Data\08May19\30.D	<b>Analyst:</b> Raines

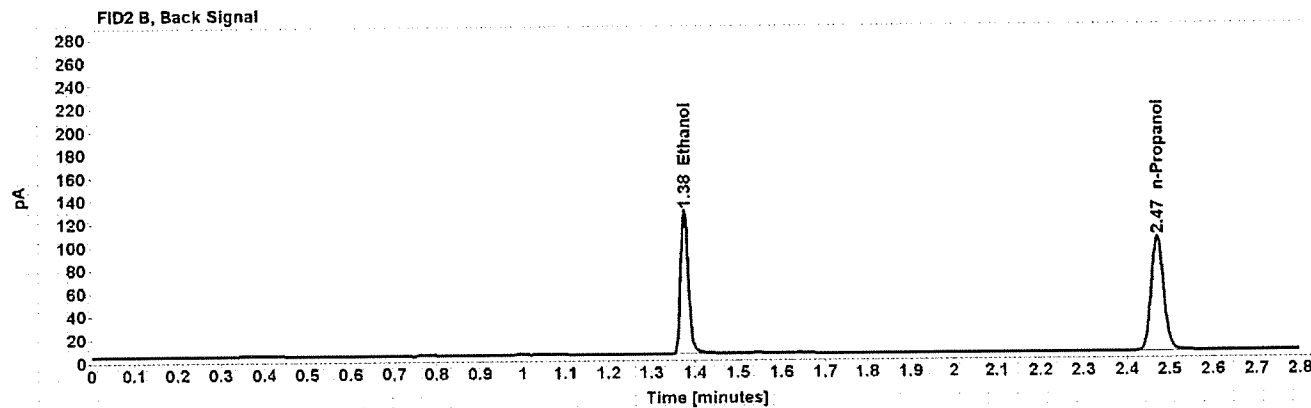
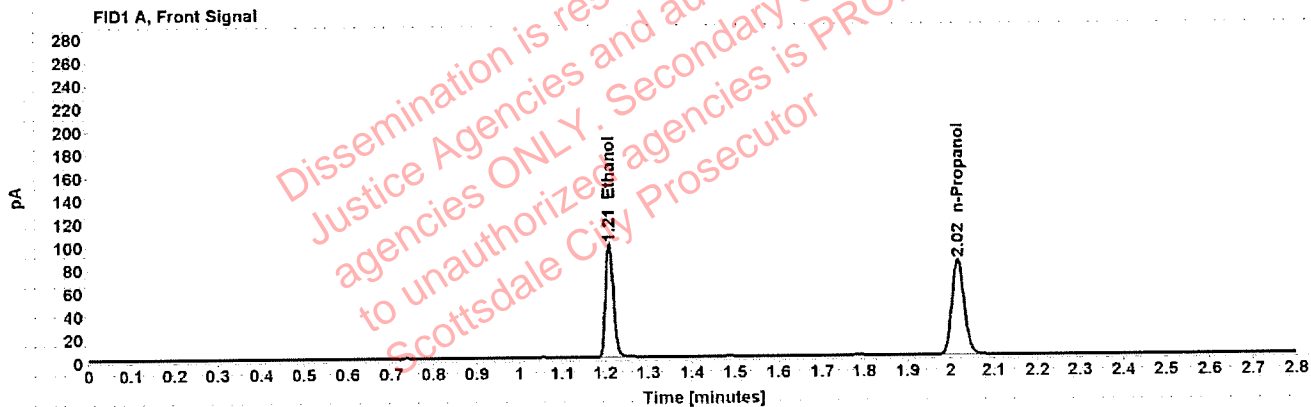


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1989	1.210	125.680
n-Propanol	-----	2.016	164.756

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

Compound	Time (min)	Peak Area
Ethanol	1.376	157.156
n-Propanol	2.471	202.689