

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 05/23/2019 SEQUENCE NAME 23May19

EQUIPMENT

Pipettor Hamilton ML600EH7497 Hamilton ML600GJ10749
 Gas Chromatograph Agilent US14173023

INSTRUMENT CALIBRATION

Vial 1 0.02 calibrator Lot FN03241604 Coefficient of determination (r²)
 Vial 2 0.10 calibrator Lot FN06181501 0.99998
 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 051619
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 020917
7	Aqueous control	0.400 g/dL	0.395 g/dL	Lipomed 08012015-C
8	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 09022015-A
9	Blood control	0.198 g/dL	0.199 g/dL	ACQ 407041529/13
20	Aqueous control	0.080 g/dL	0.082 g/dL	Lipomed 28082014-B
31	Aqueous control	0.150 g/dL	0.152 g/dL	Lipomed 09022015-C
40	Aqueous control	0.400 g/dL	0.397 g/dL	Lipomed 08012015-C
41	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 09022015-A
42	Blood control	0.198 g/dL	0.197 g/dL	ACQ 407041529/13
43	Blank	Not detected	Not detected	SPD lab 040919WB

SUBJECT SAMPLES

Subjects in the sequence 14 Subjects requiring reanalysis 0

ADDITIONAL NOTES: All testing proceeded as expected.

Run valid Run invalid 3/23/19 Analyst B-1466
 Run valid Run invalid WA B1570 5/28/19 Technical Reviewer

Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

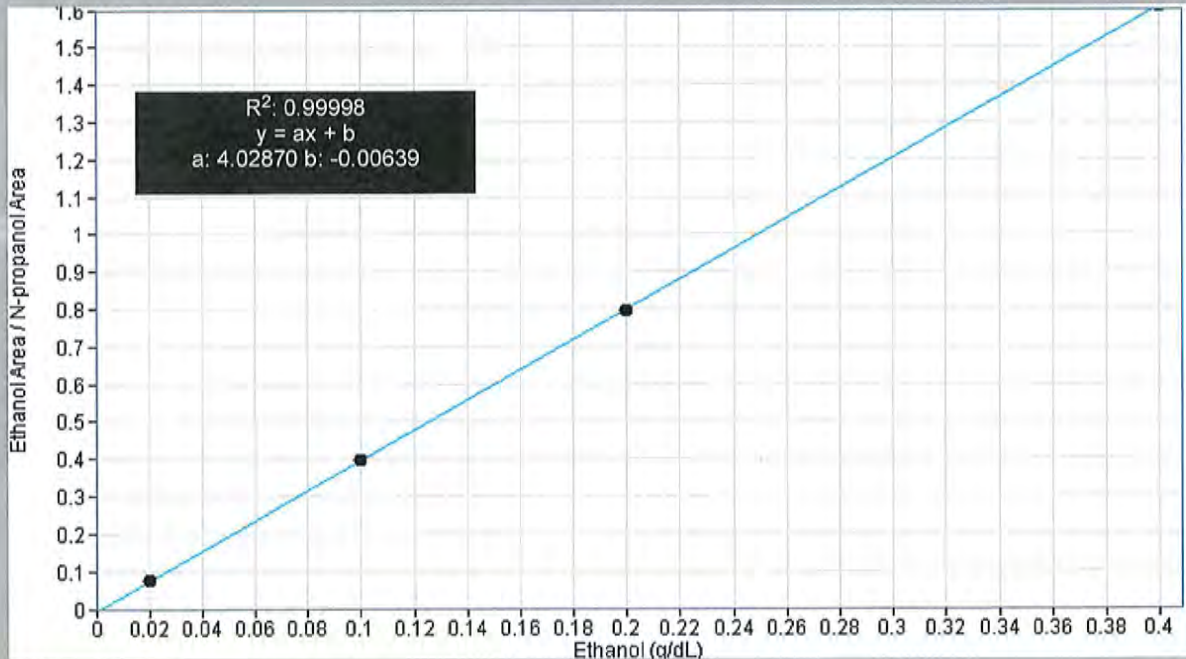
SEQUENCE NAME: 23May19

ANALYST: Raines *MR*

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 051619	5	negative	negative	-	-
0.400 08012015-C	7	0.395	0.400	1.25	-0.005
0.040 09022015-A	8	0.040	0.040	0.00	0.000
0.198 407041529/13	9	0.199	0.198	0.51	0.001
0.080 28082014-B	20	0.082	0.080	2.50	0.002
0.150 09022015-C	31	0.152	0.150	1.33	0.002
0.40 08012015-C	40	0.397	0.400	0.75	-0.003
0.04 09022015-A	41	0.041	0.040	2.50	0.001
0.198 407041529/13	42	0.197	0.198	0.51	-0.001
blank 040919WB	43	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	12.184	157.500	0.077
0.100	62.385	157.990	0.395
0.200	125.911	158.232	0.796
0.400	248.226	154.452	1.607

Calibration Line



Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN03241604	Vial: 1
Description: 0.020 calibrator	Sequence: 23May19
Method: ethanol quant.M	Injection date: 5/23/2019 12:22:27 PM
Instrument: US14173023 CN14160045	Analyst: Raines
Data file: C:\Chem32\1\Data\rsdtest3\23May19\1.D	<i>[Signature]</i>

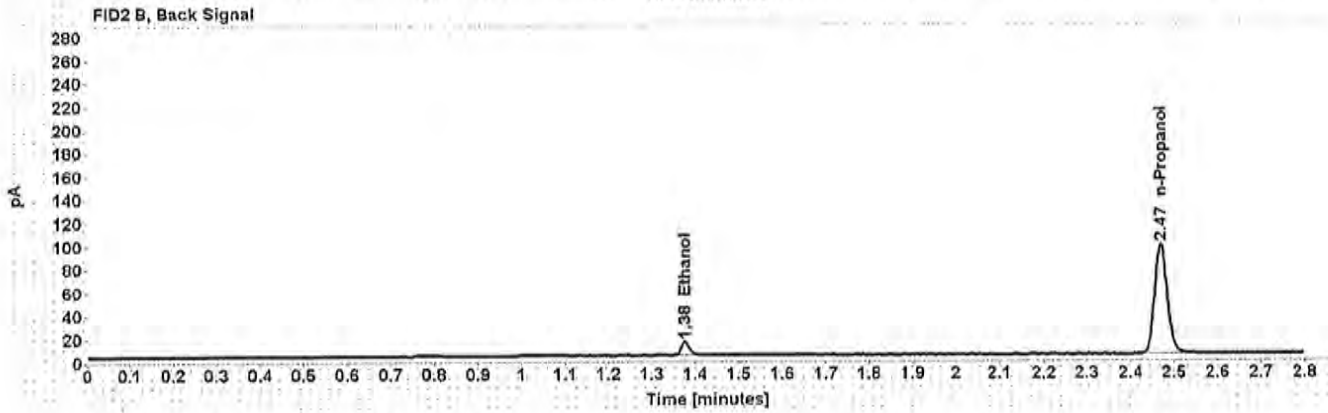
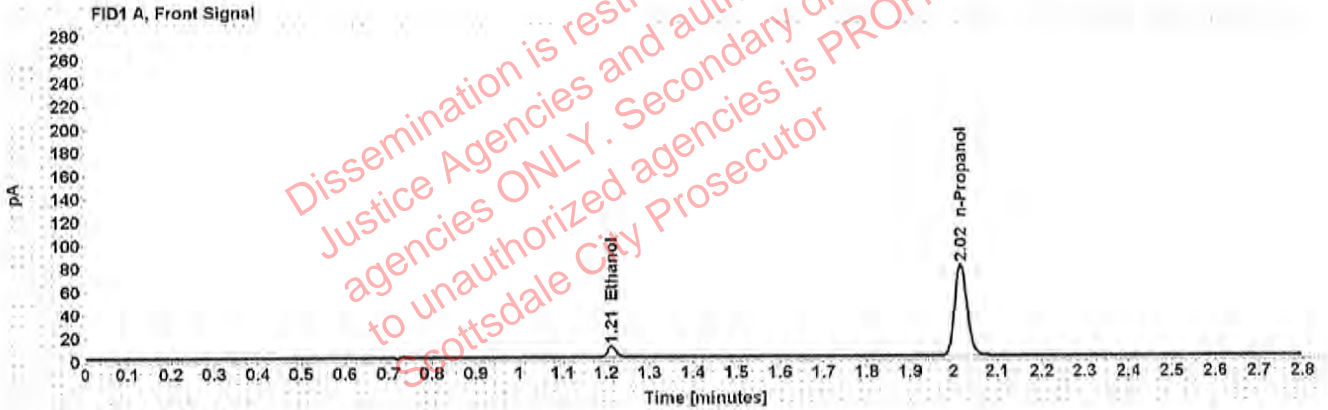


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.212	12.184
n-Propanol	2.016	157.500

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

Compound	Time (min)	Peak Area
Ethanol	1.377	15.090
n-Propanol	2.470	193.154

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	FN06181501	Vial:	2
Description:	0.100 calibrator	Sequence:	23May19
Method:	ethanol quant.M	Injection date:	5/23/2019 12:26:26 PM
Instrument:	US14173023 CN14160045	Analyst:	Raines MR
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\2.D		

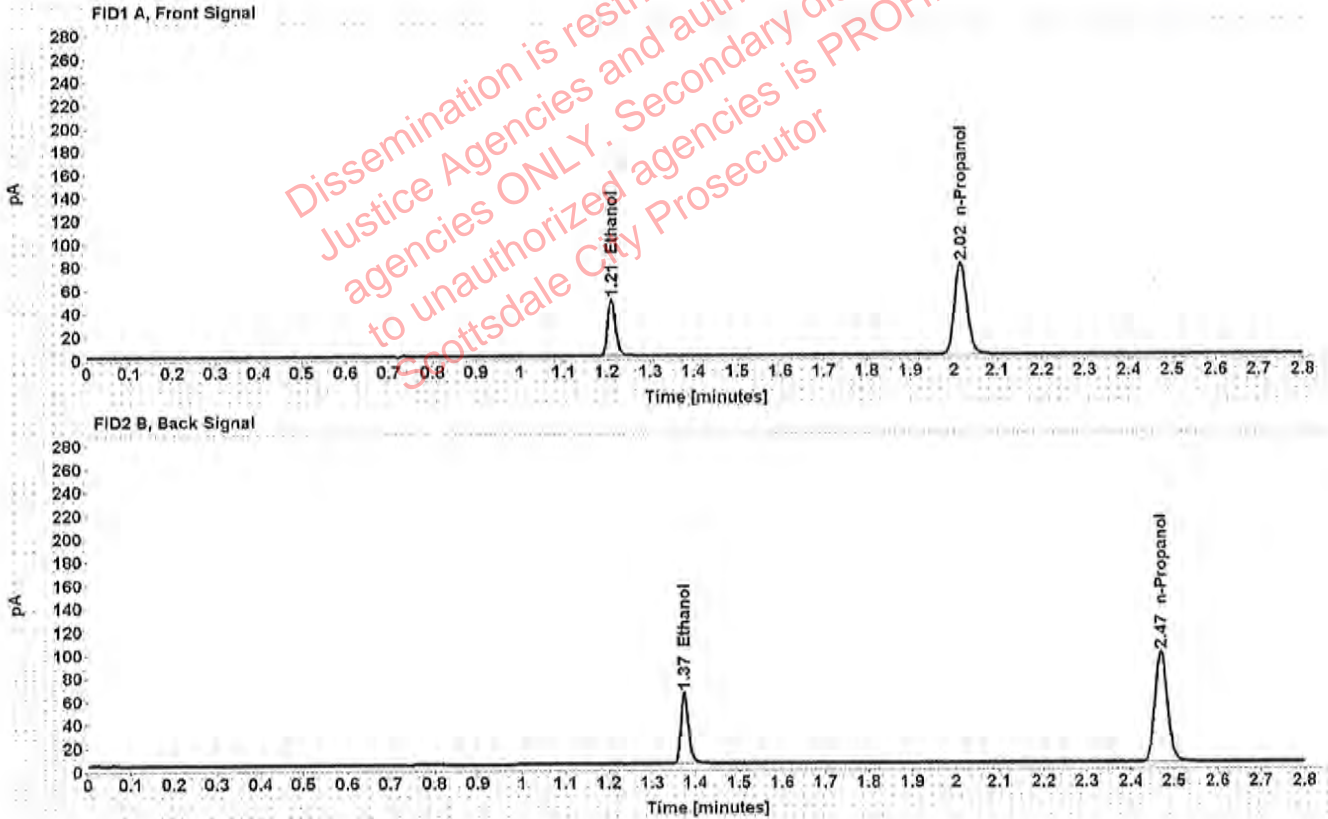


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.210	62.385
n-Propanol	2.016	157.990

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

Compound	Time (min)	Peak Area
Ethanol	1.375	77.416
n-Propanol	2.470	193.730

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	FN07201502	Vial:	3
Description:	0.200 calibrator	Sequence:	23May19
Method:	ethanol quant.M	Injection date:	5/23/2019 12:30:28 PM
Instrument:	US14173023 CN14160045	Analyst:	Raines <i>[Signature]</i>
Data file:	C:\Chem3211\Data\rsdtest3\23May19\3.D		

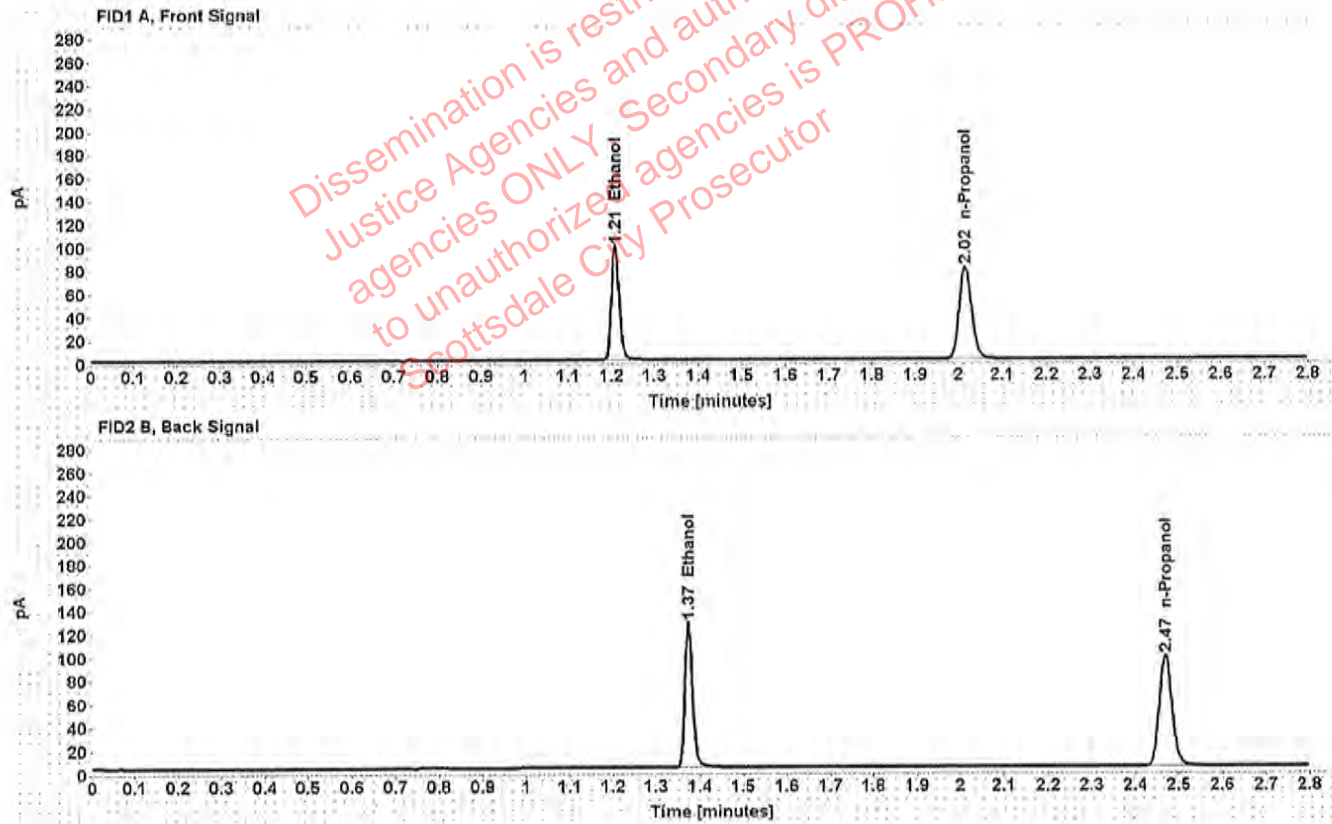


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	125.911
n-Propanol	2.015	158.232

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

Compound	Time (min)	Peak Area
Ethanol	1.374	156.429
n-Propanol	2.470	194.516

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN11191402	Vial: 4
Description: 0.400 calibrator	Sequence: 23May19
Method: ethanol quant.M	Injection date: 5/23/2019 12:34:27 PM
Instrument: US14173023 CN14160045	Analyst: Raines <i>[Signature]</i>
Data file: C:\Chem32\1\Data\rsdtest3\23May19\4.D	

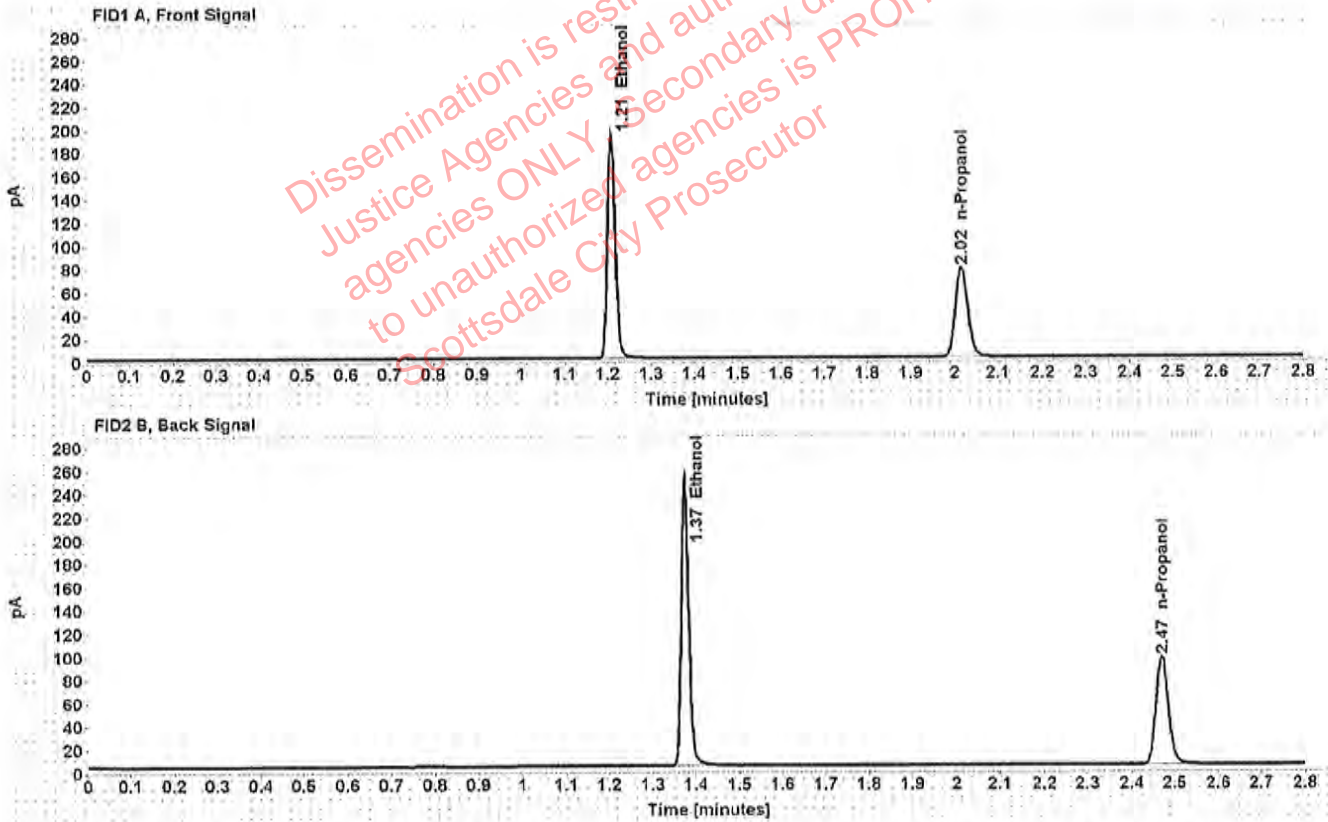


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	248.226
n-Propanol	2.016	154.452

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

Compound	Time (min)	Peak Area
Ethanol	1.375	309.839
n-Propanol	2.471	189.721

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 051619	Vial: 5
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 12:38:28 PM
Data file: C:\Chem3211\Data\rsdtest3\23May19\5.D	Analyst: Raines <i>ML</i>

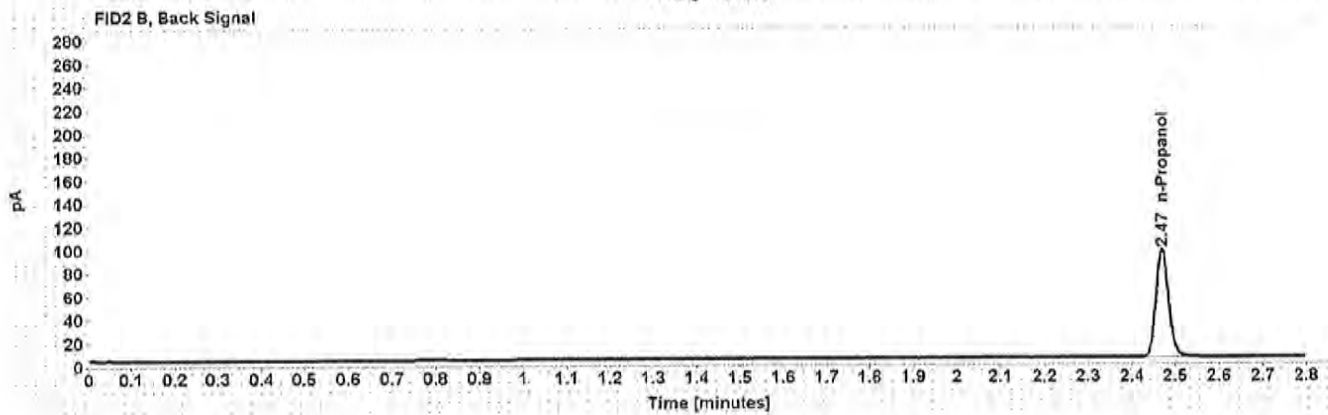
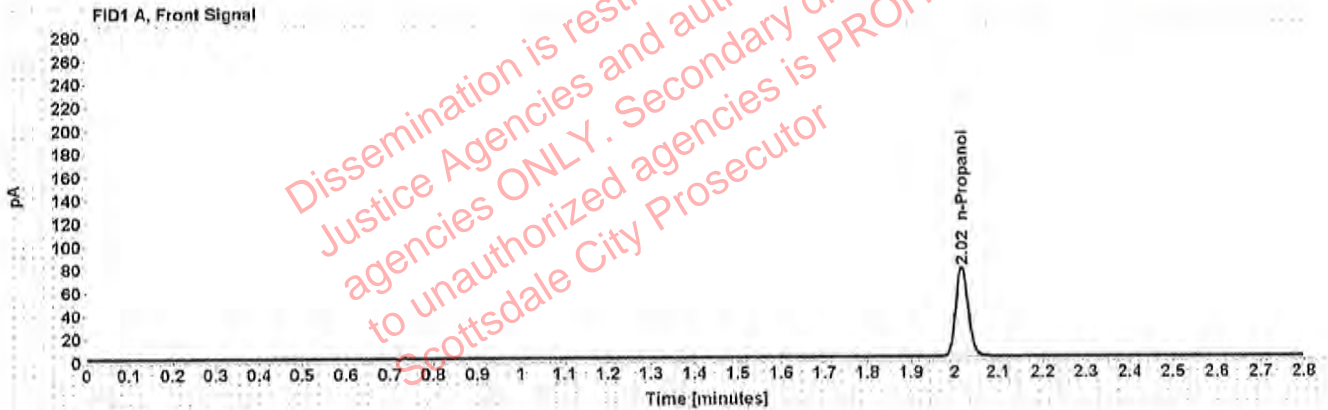


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	154.716

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

Compound	Time (min)	Peak Area
n-Propanol	2.470	189.533

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	020917	Vial:	6
Description:	Volatiles mix	LIMS ID:	
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 12:42:27 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\6.D	Analyst:	Raines <i>[Signature]</i>

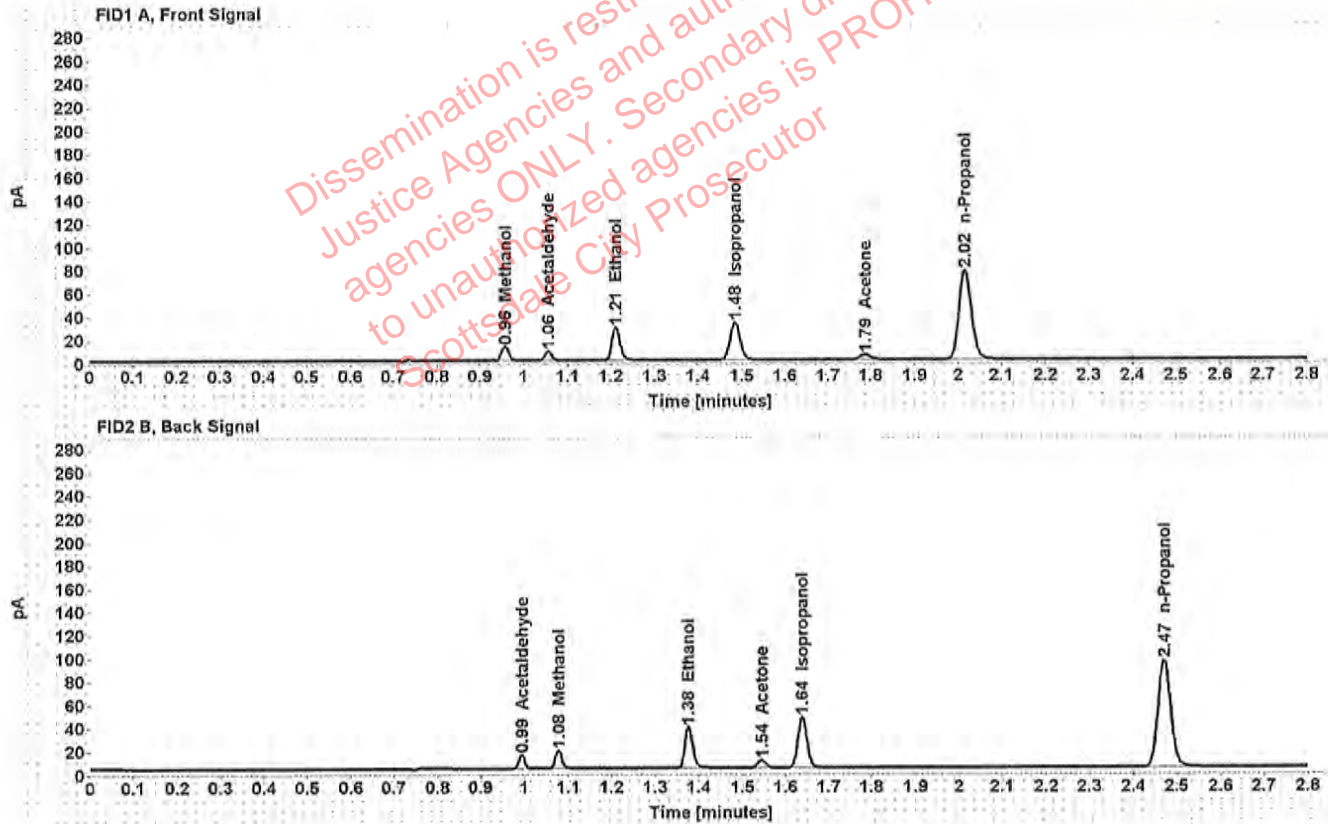


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.957	13.236
Acetaldehyde	-----	1.055	8.628
>Ethanol	0.0600	1.211	36.047
Isopropanol	-----	1.484	52.390
Acetone	-----	1.786	7.205
n-Propanol	-----	2.016	153.244

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	11.240
Methanol	1.077	16.780
Ethanol	1.376	44.535
Acetone	1.544	8.627
Isopropanol	1.638	65.790
n-Propanol	2.471	187.816

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 08012015-C	Vial: 7
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 12:46:42 PM
Data file: C:\Chem32\1\Data\rsdtest3\23May19\7.D	Analyst: Raines

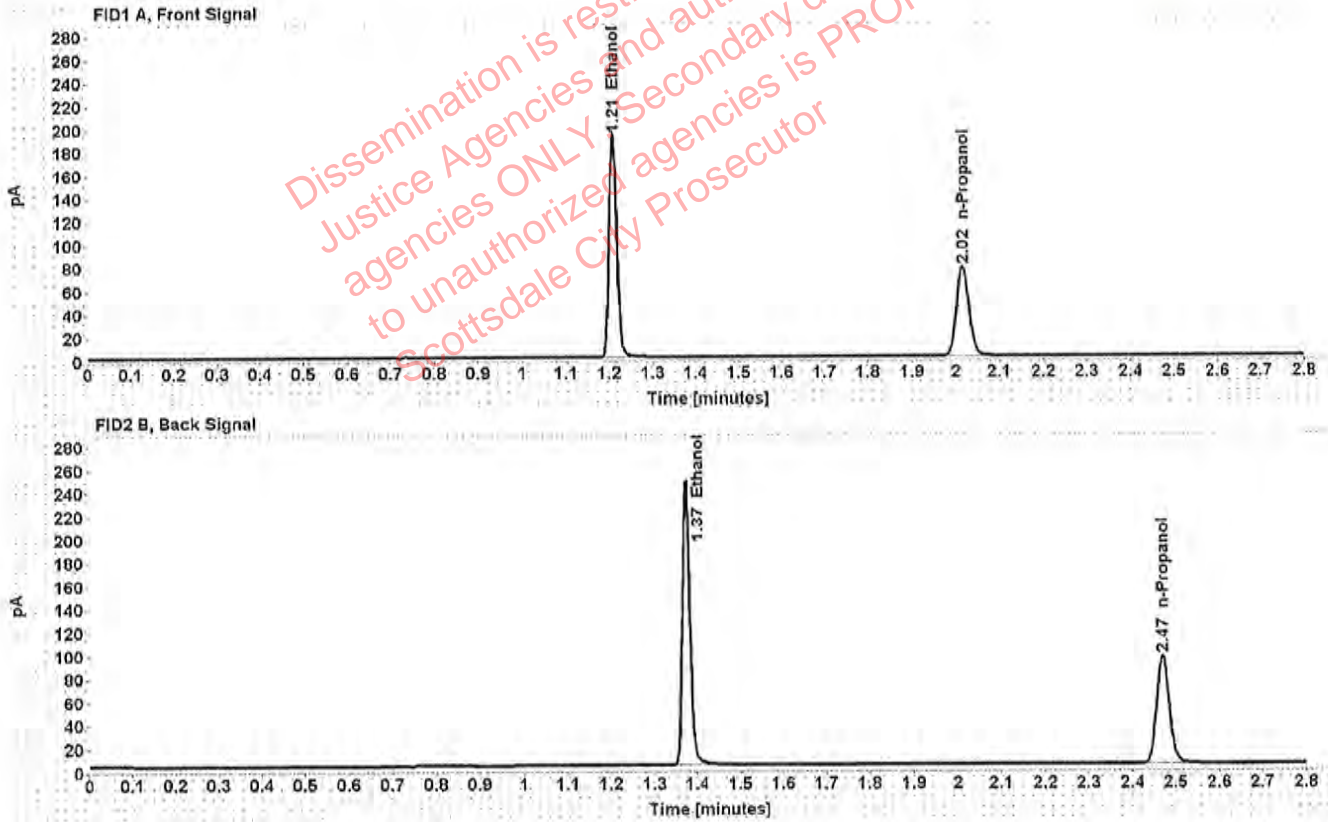


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3952	1.208	245.168
n-Propanol	-----	2.016	154.598

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

Compound	Time (min)	Peak Area
Ethanol	1.374	305.377
n-Propanol	2.470	189.344

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	09022015-A	Vial:	8
Description:	0.040	LIMS ID:	
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 12:50:43 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\8.D	Analyst:	Raines <i>[Signature]</i>

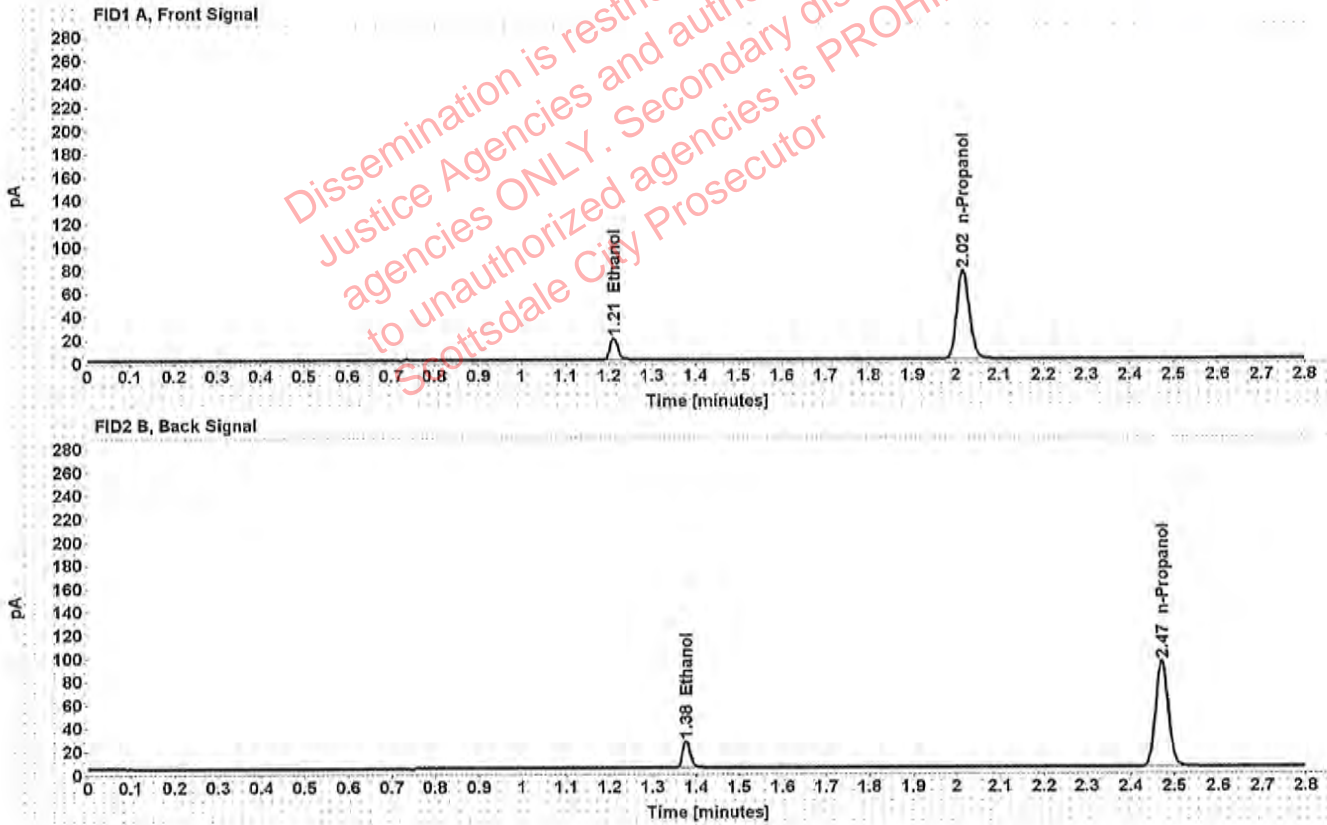


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0405	1.211	23.841
n-Propanol	-----	2.016	152.074

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

Compound	Time (min)	Peak Area
Ethanol	1.376	29.441
n-Propanol	2.471	186.363

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	407041529/13	Vial:	9
Description:	0.198	LIMS ID:	
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 12:54:44 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\9.D	Analyst:	Raines <i>LM</i>

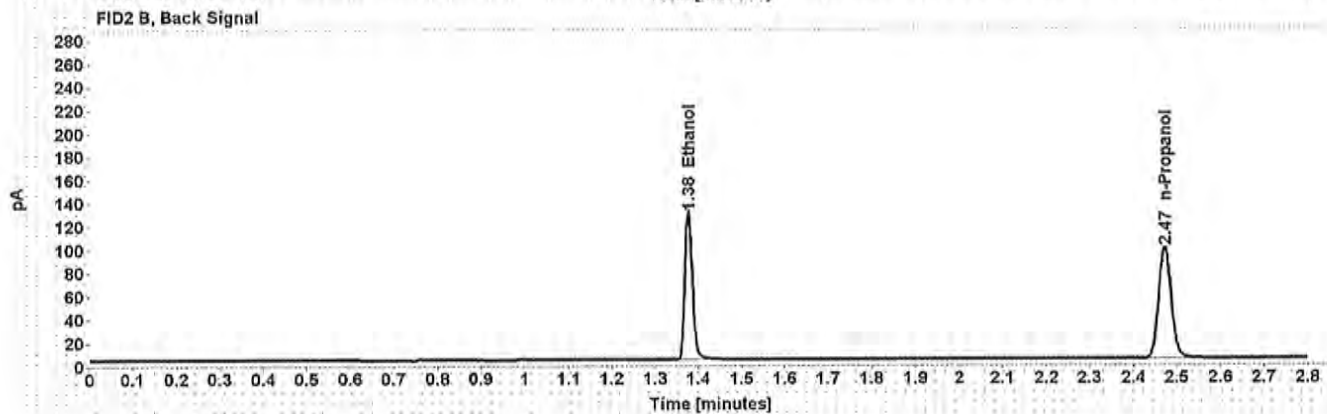
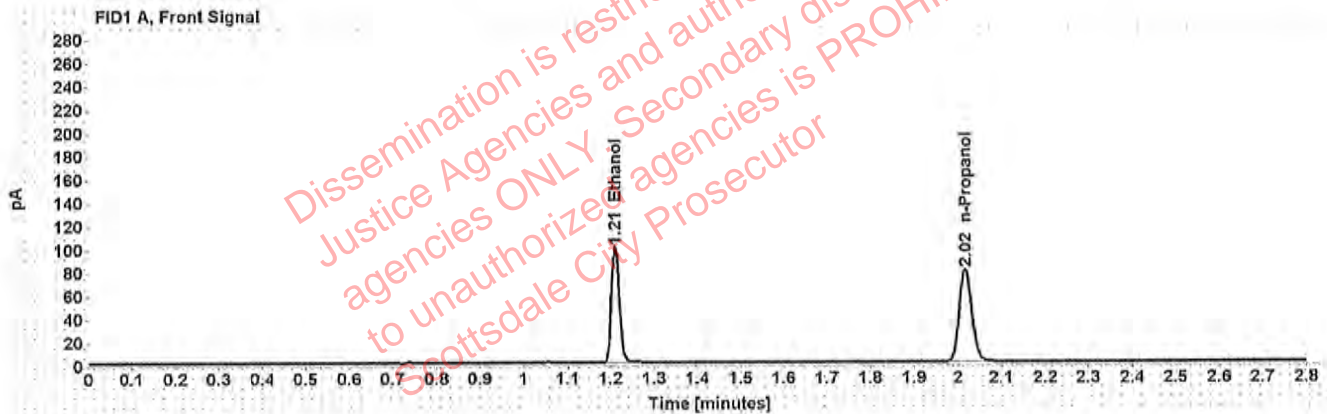


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1999	1.210	127.184
n-Propanol	-----	2.017	159.171

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

Compound	Time (min)	Peak Area
Ethanol	1.377	158.279
n-Propanol	2.472	195.075

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	28082014-B	Vial:	20
Description:	0.080	LIMS ID:	
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:39:13 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\20.D	Analyst:	Raines <i>[Signature]</i>

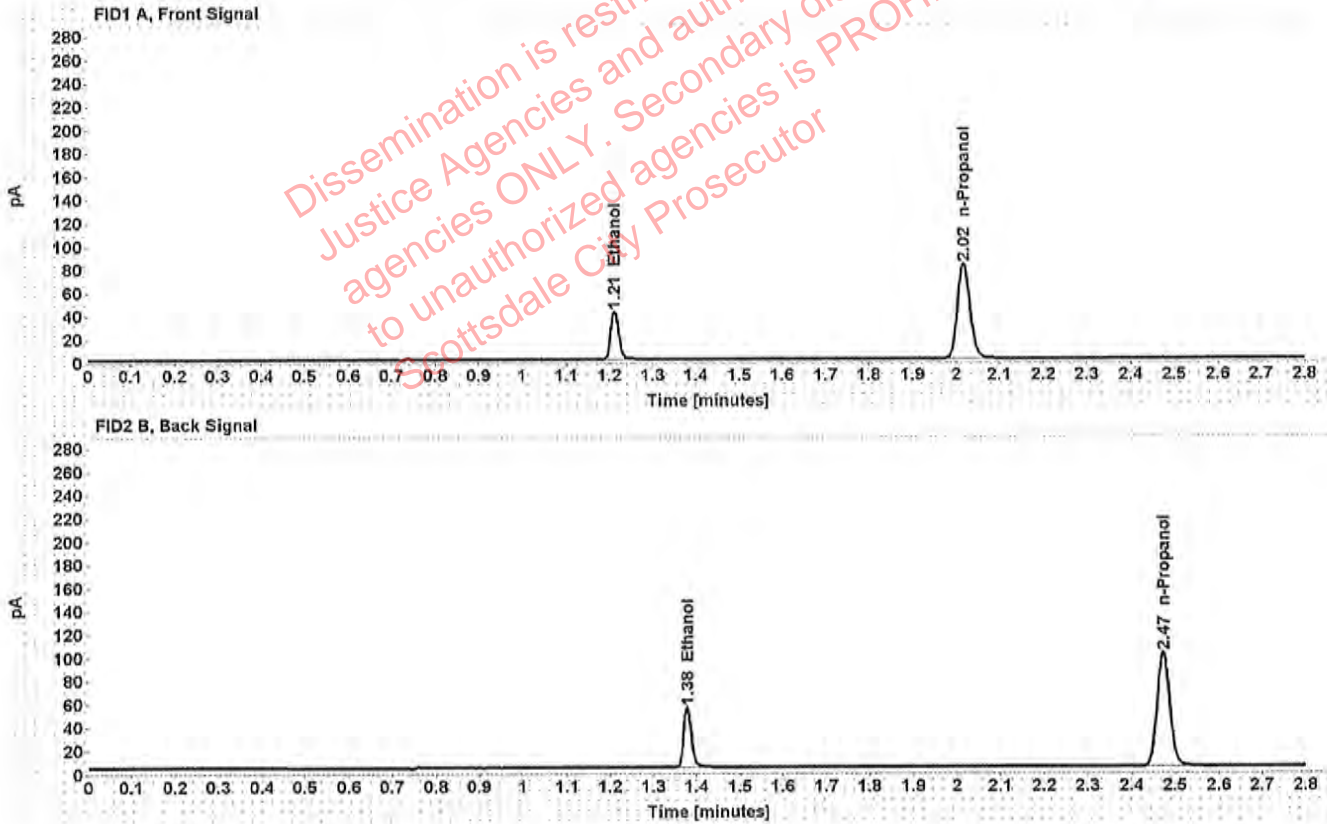


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0820	1.211	52.923
n-Propanol	-----	2.017	163.407

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

Compound	Time (min)	Peak Area
Ethanol	1.378	65.550
n-Propanol	2.472	200.389

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 09022015-C	Vial: 31
Description: 0.150	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 2:23:41 PM
Data file: C:\Chem32\1\Data\rsdtest3\23May19\31.D	Analyst: Raines <i>[Signature]</i>

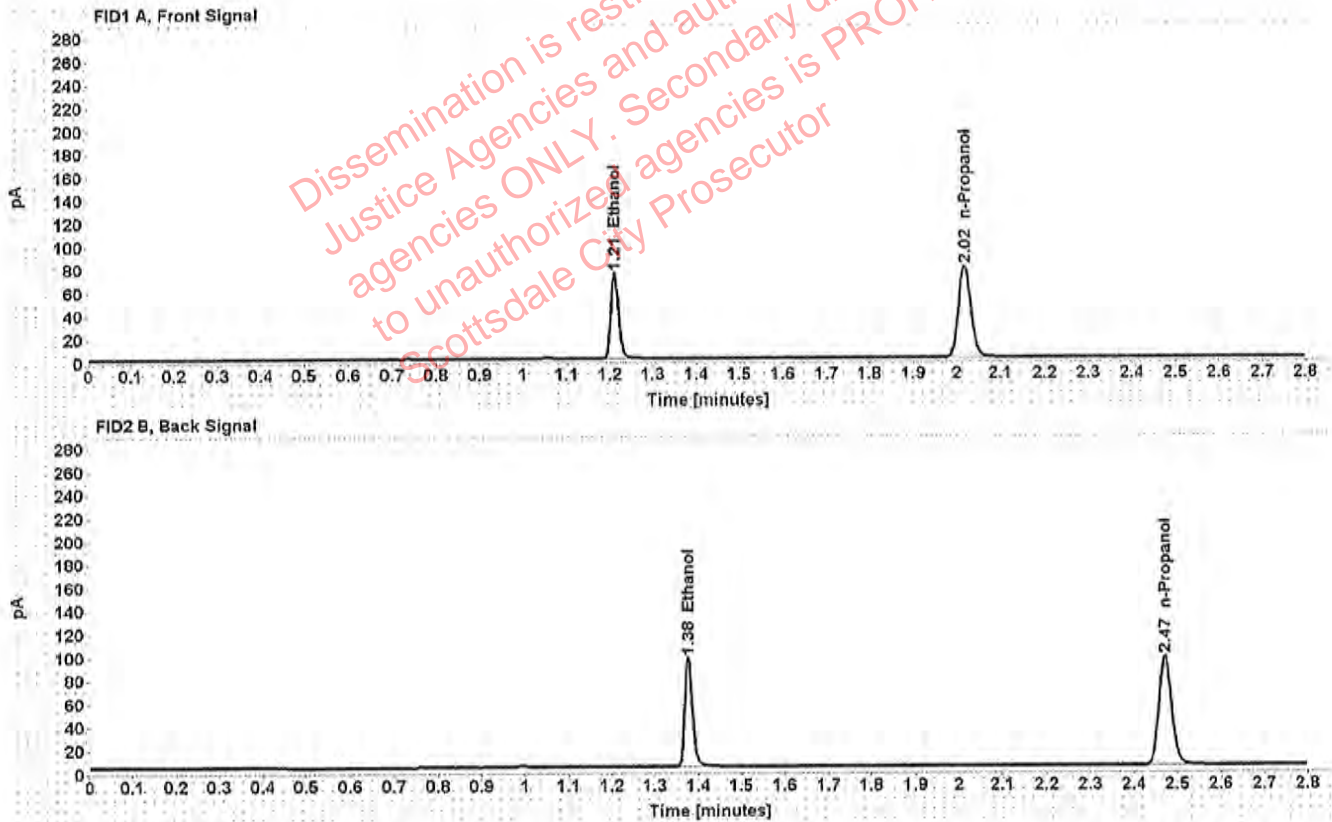


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1525	1.211	95.721
n-Propanol	-----	2.017	157.416

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

Compound	Time (min)	Peak Area
Ethanol	1.378	118.951
n-Propanol	2.472	193.072

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 08012015-C	Vial: 40
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 2:59:57 PM
Data file: C:\Chem32\1\Data\rsdtest3\23May19\40.D	Analyst: Raines <i>[Signature]</i>

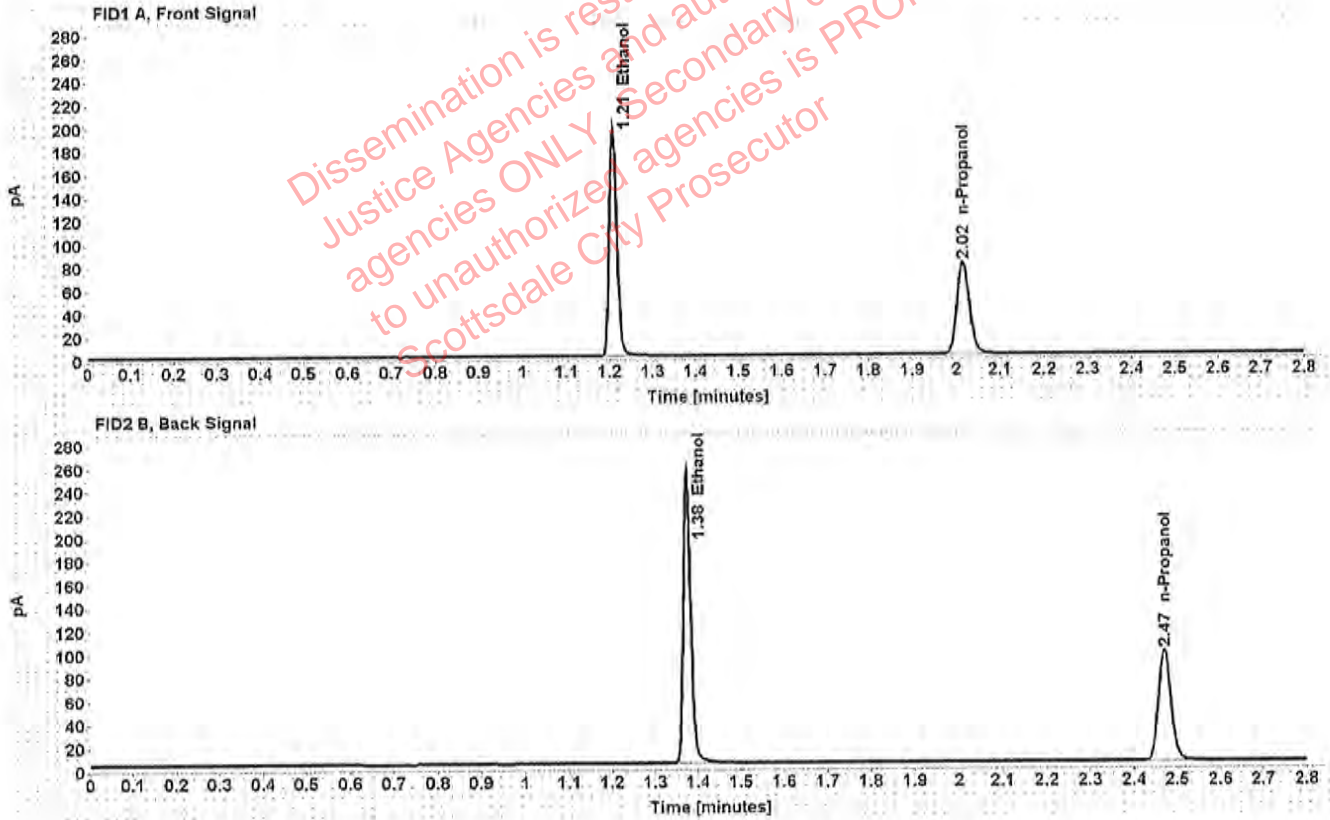


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3973	1.209	252.633
n-Propanol	-----	2.016	158.477

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

Compound	Time (min)	Peak Area
Ethanol	1.375	315.930
n-Propanol	2.471	194.912

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 09022015-A	Vial: 41
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 3:03:56 PM
Data file: C:\Chem32\1\Data\rsdtest3\23May19\41.D	Analyst: Raines <i>JW</i>

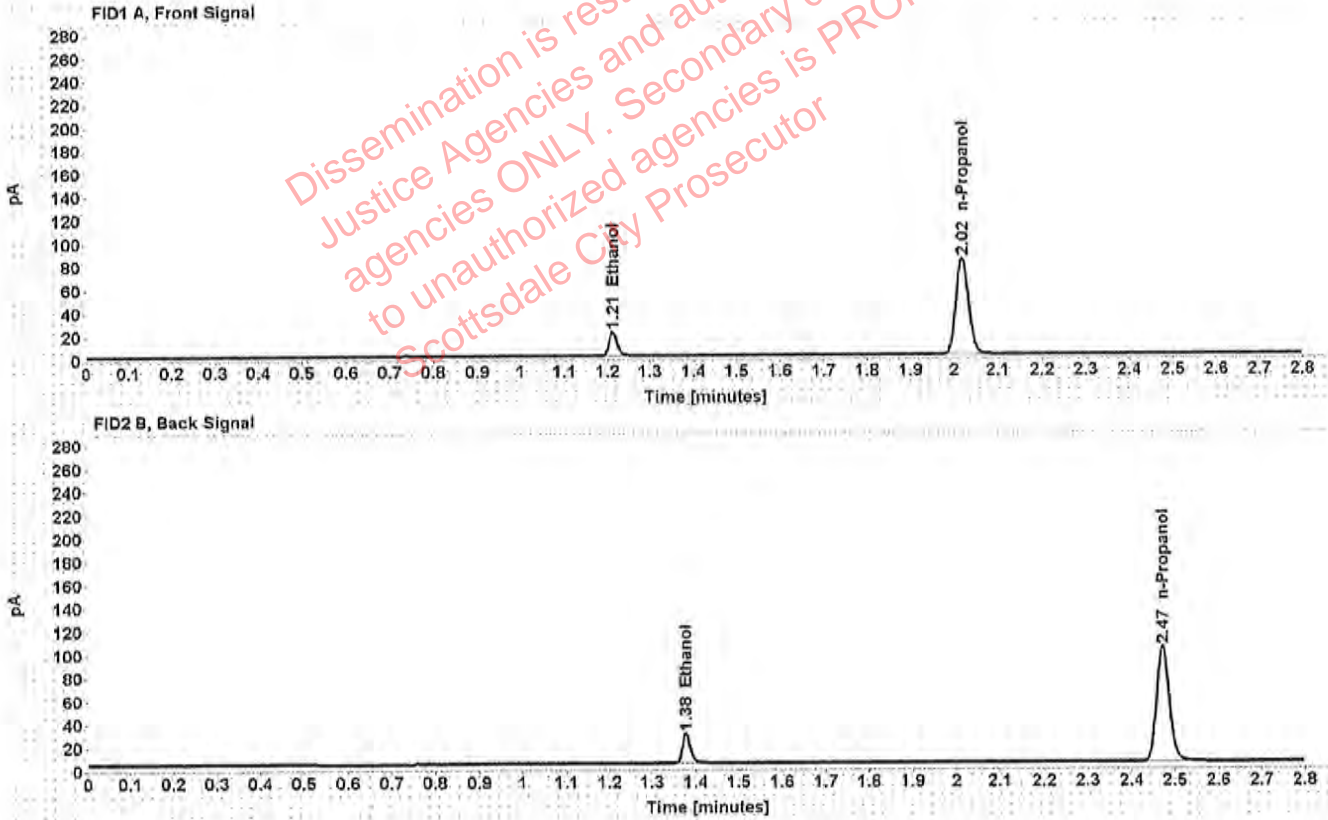


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0415	1.212	26.492
n-Propanol	-----	2.017	164.948

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

Compound	Time (min)	Peak Area
Ethanol	1.378	32.923
n-Propanol	2.472	202.892

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 407041529/13	Vial: 42
Description: 0.198	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 3:07:57 PM
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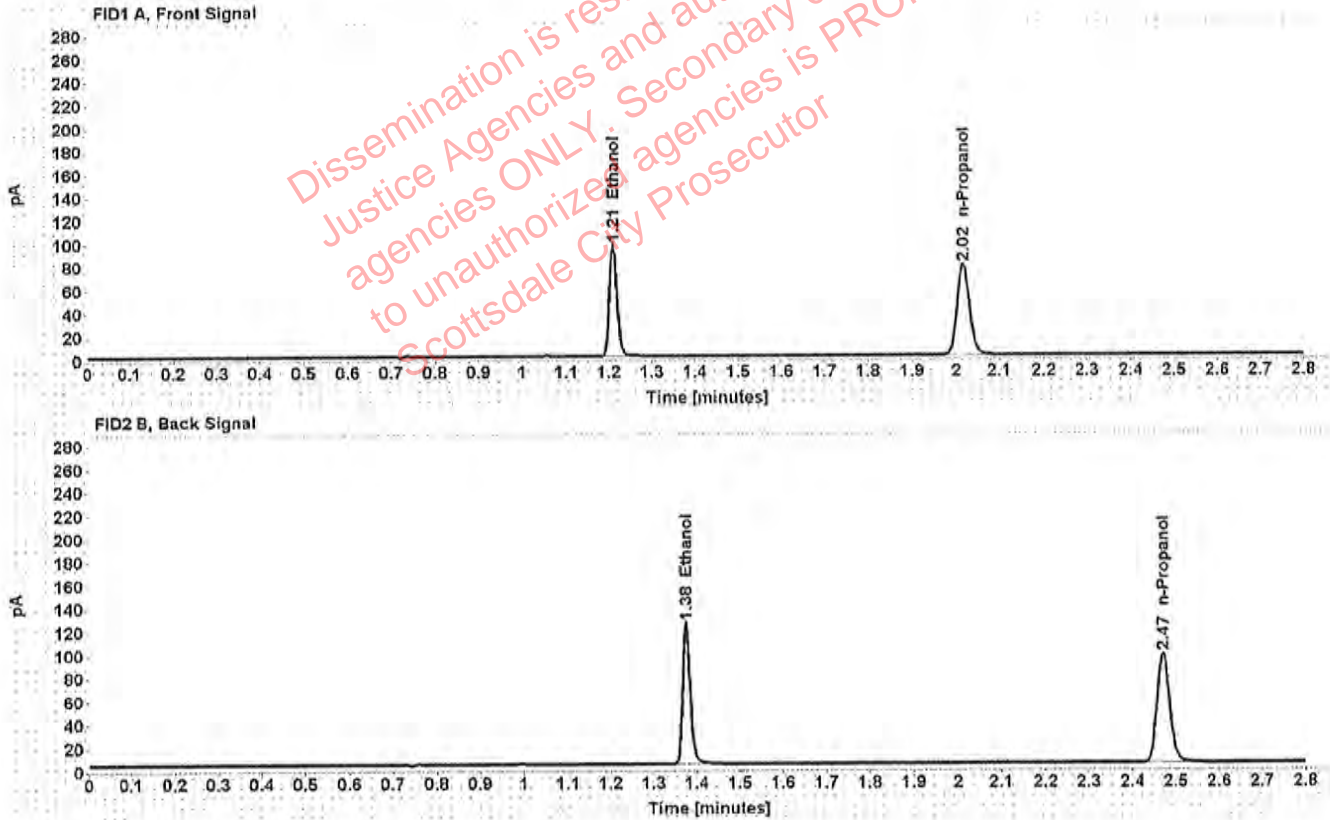


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1974	1.210	123.259
n-Propanol	-----	2.016	156.207

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

Compound	Time (min)	Peak Area
Ethanol	1.375	153.666
n-Propanol	2.471	192.256

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 040919WB	Vial: 43
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 23May19
Instrument: US14173023 CN14160045	Injection date: 5/23/2019 3:12:13 PM
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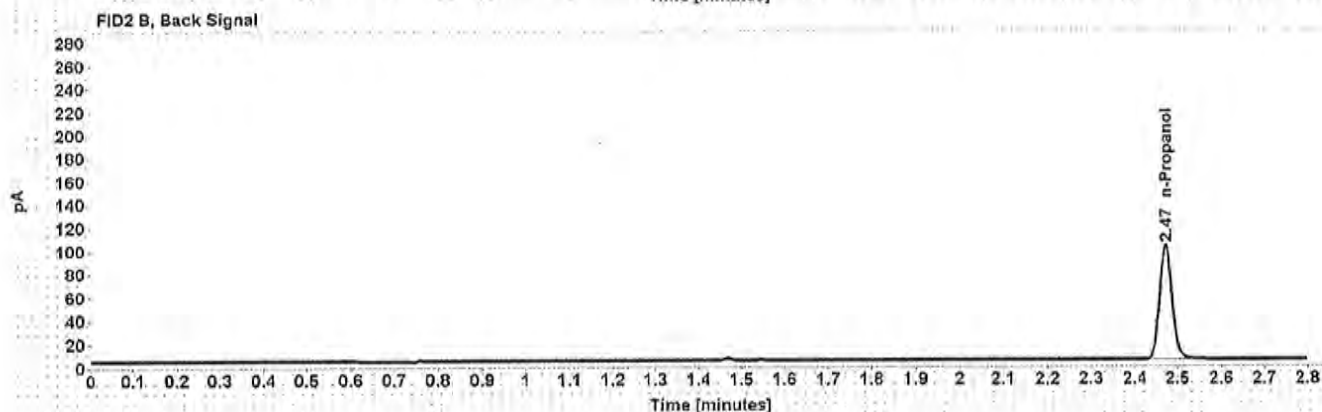
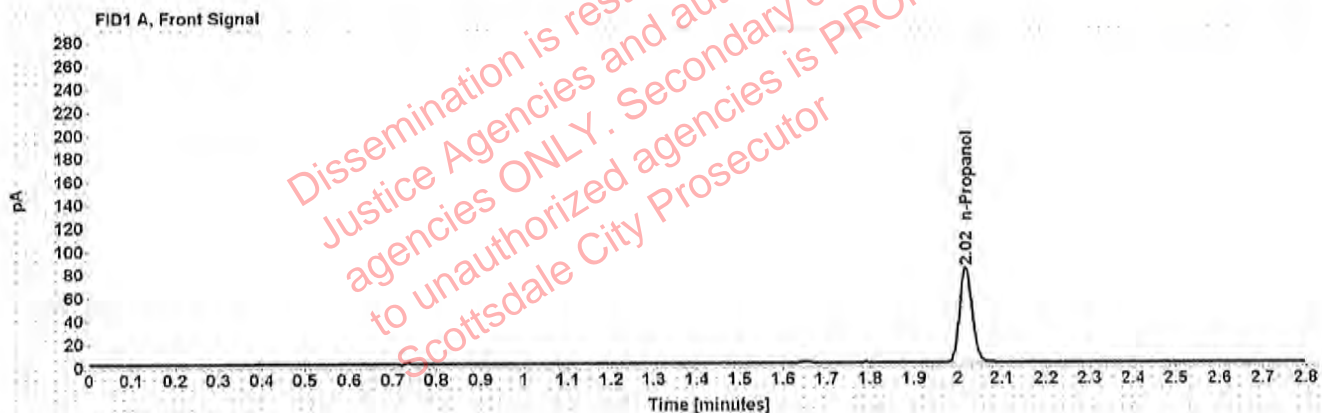


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	163.584

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

Compound	Time (min)	Peak Area
n-Propanol	2.472	201.183

Sequence Summary

[Handwritten signature]

Sequence name: 23May19 Instrument: US14173023 CN14160045 Analyst: Raines

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	051619	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	09022015-C	0.150	Control		ethanol quant.M
32			Sample		ethanol quant.M
33			Sample		ethanol quant.M
34			Sample		ethanol quant.M
35			Sample		ethanol quant.M
36			Sample		ethanol quant.M
37			Sample		ethanol quant.M
38			Sample		ethanol quant.M
39			Sample		ethanol quant.M
40	08012015-C	0.400	Control		ethanol quant.M
41	09022015-A	0.040	Control		ethanol quant.M
42	407041529/13	0.198	Control		ethanol quant.M
43	040919WB	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 Laboratory Summary of Cases

SEQUENCE NAME: 23May19

Lee

ANALYST: Raines

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.2072	0.2063	0.20675	0.22	0.00045
12 13	0.1726	0.1725	0.17255	0.03	0.00005
14 15	0.0831	0.0835	0.08330	0.24	0.00020
16 17	0.1146	0.1140	0.11430	0.26	0.00030
18 19	0.2690	0.2644	0.26670	0.86	0.00230
21 22	0.2051	0.2042	0.20465	0.22	0.00045
23 24	0.1633	0.1653	0.16430	0.61	0.00100
25 26	0.1373	0.1362	0.13675	0.40	0.00055
27 28	0.2103	0.2107	0.21050	0.10	0.00020
29 30	0.1855	0.1852	0.18535	0.08	0.00015
32 33	0.2220	0.2221	0.22205	0.02	0.00005
34 35	0.1926	0.1922	0.19240	0.10	0.00020
36 37	0.0414	0.0413	0.04135	0.12	0.00005
38 39	0.0000	0.0000	0.00000	0.00	0.00000

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

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	10
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 12:58:43 PM
Data file:	C:\Chem32\1\Data\rstdtest3\23May19\10.D	Analyst:	Raines

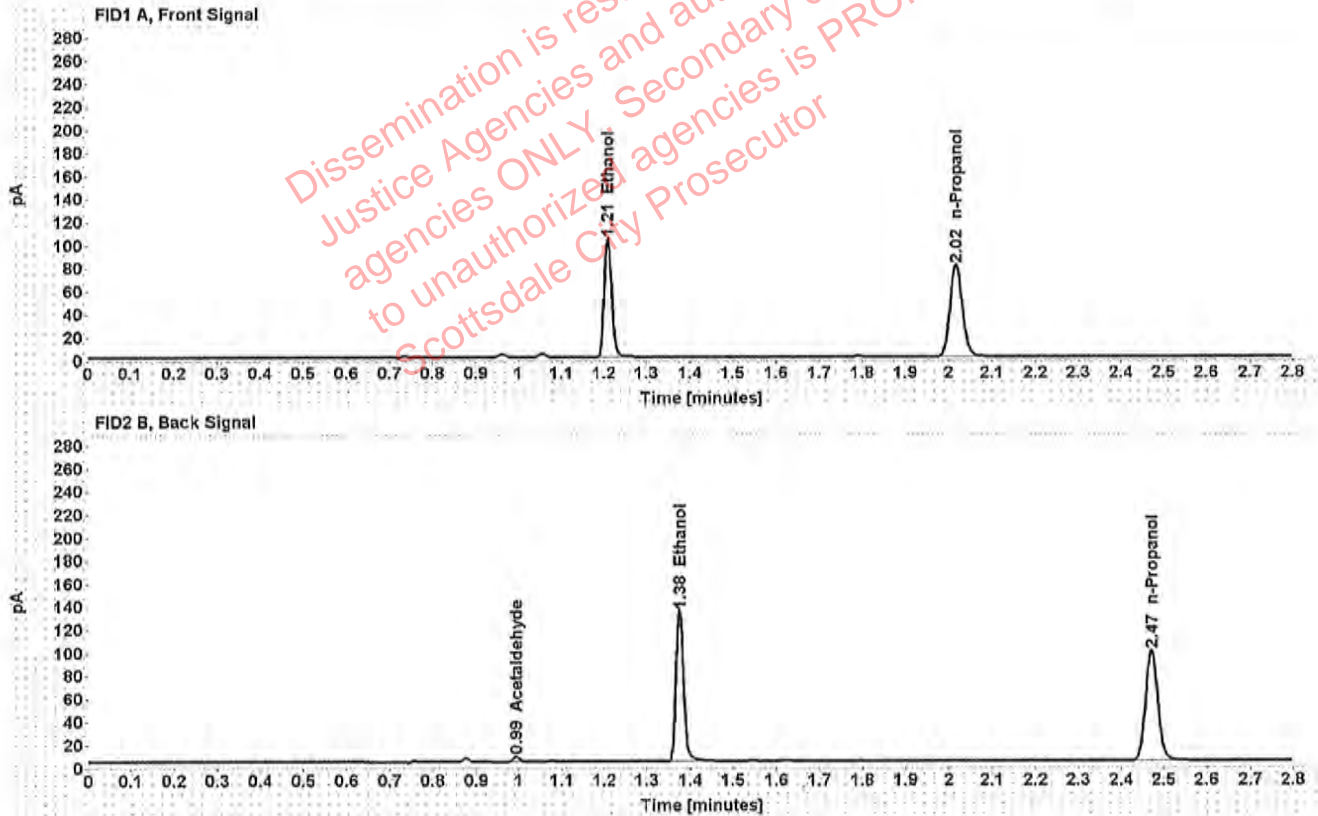


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2072	1.210	131.661
n-Propanol	-----	2.016	158.908

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.307
Ethanol	1.375	165.097
n-Propanol	2.471	195.005

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	11
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:02:42 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\11.D	Analyst:	Raines

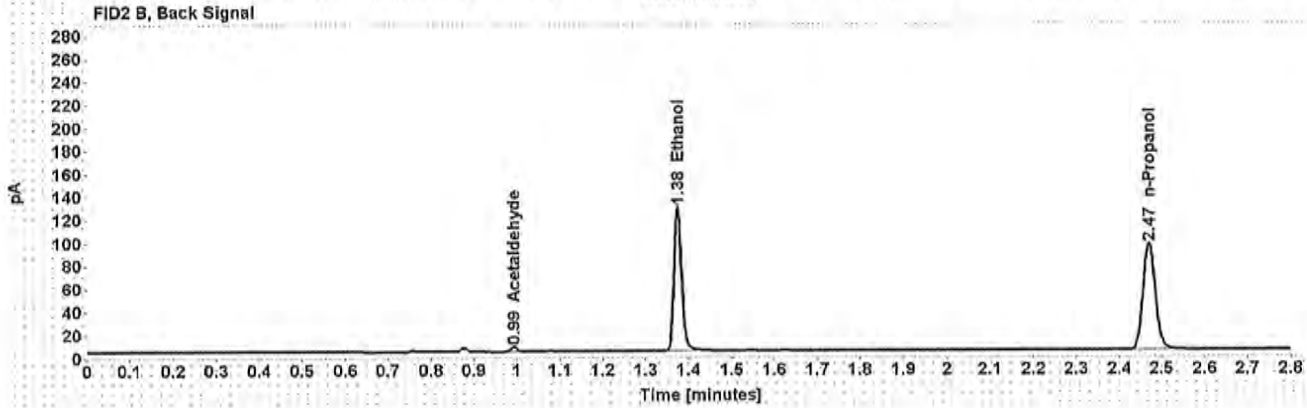
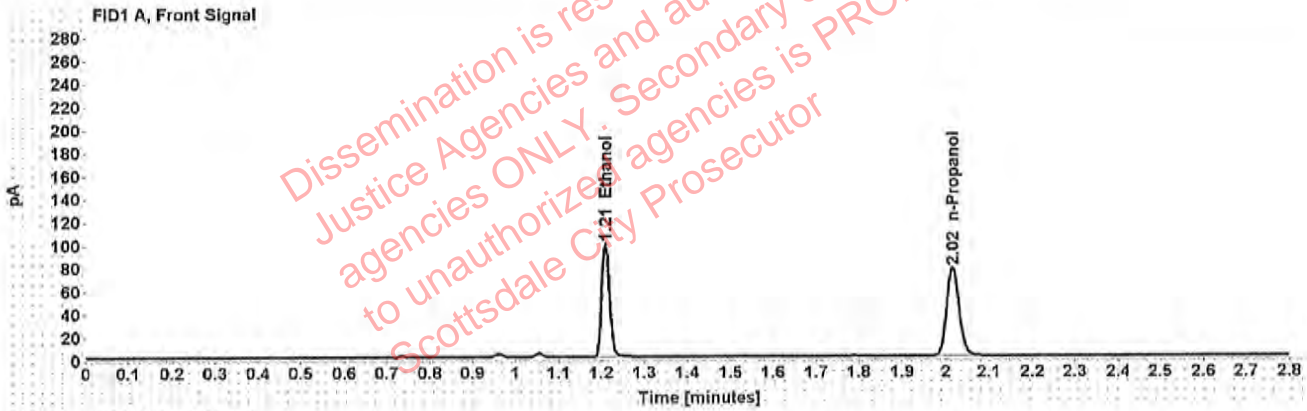


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2063	1.209	126.067
n-Propanol	-----	2.016	152.837

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.178
Ethanol	1.375	157.974
n-Propanol	2.470	187.374

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	12
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:06:41 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\12.D	Analyst:	Raines

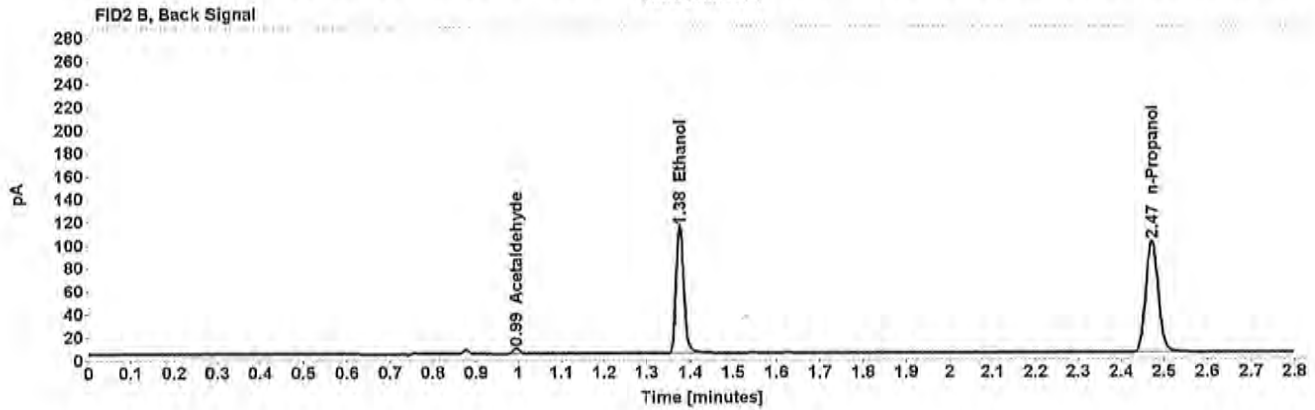
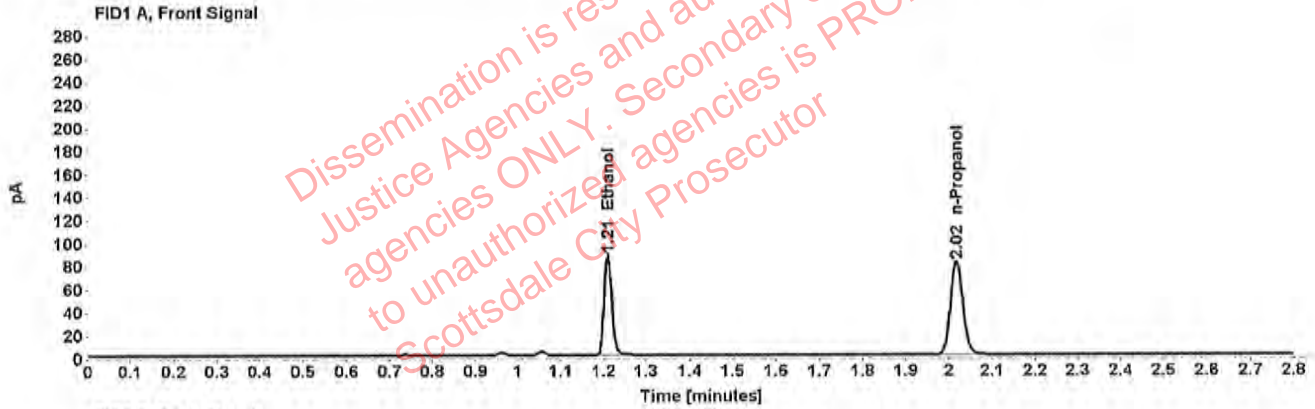


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1726	1.210	111.110
n-Propanol	-----	2.017	161.263

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.616
Ethanol	1.376	137.807
n-Propanol	2.471	197.824

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	13
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:10:57 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\13.D	Analyst:	Raines

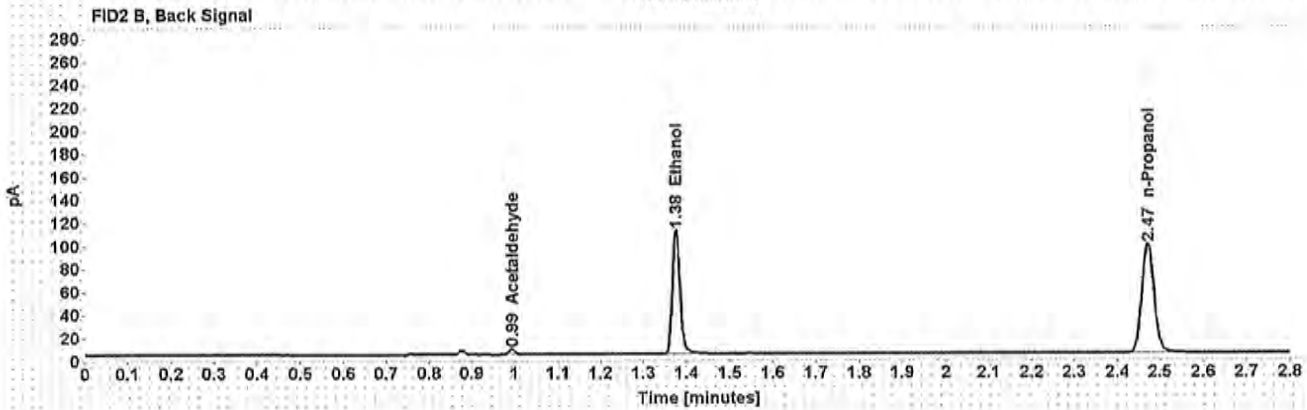
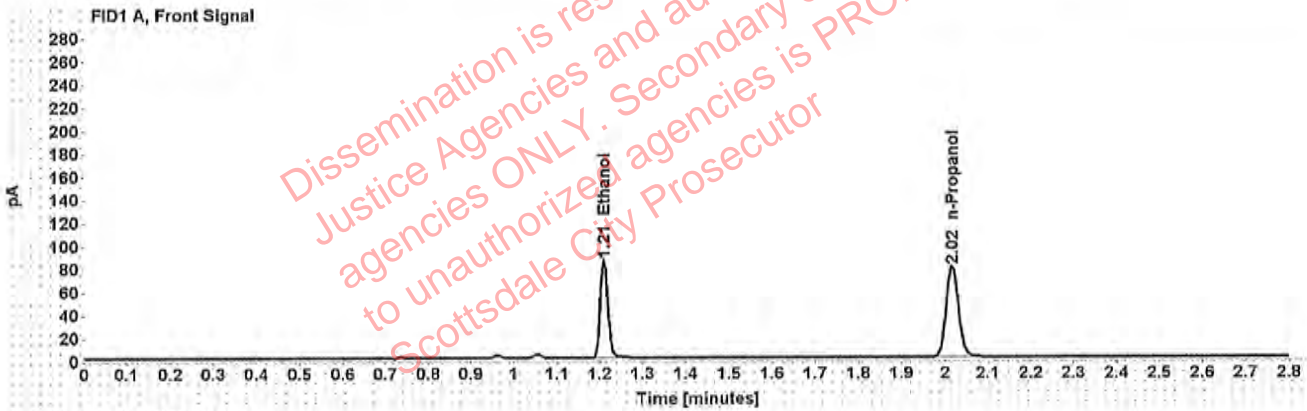


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1725	1.210	108.417
n-Propanol	-----	2.016	157.417

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.379
Ethanol	1.376	134.136
n-Propanol	2.471	193.049

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	14
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:14:58 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\14.D	Analyst:	Raines

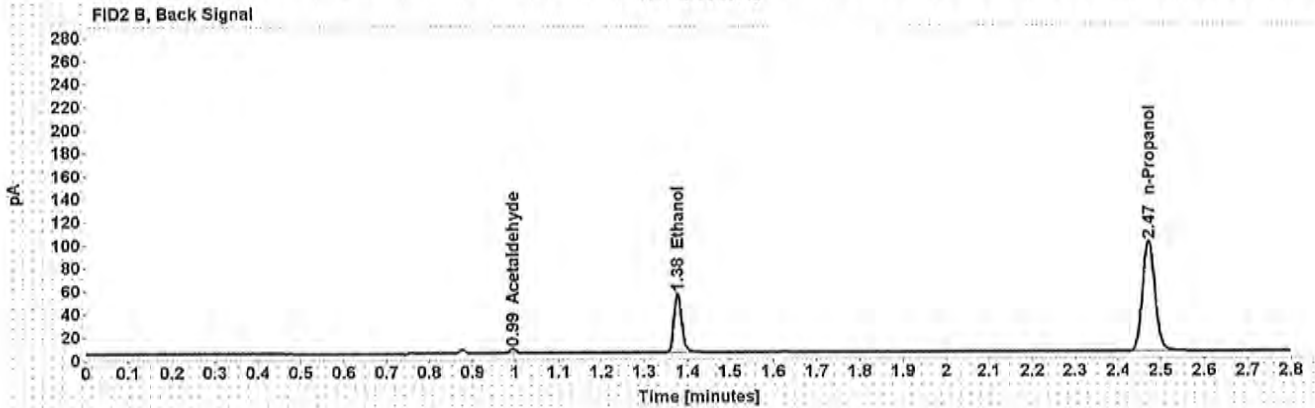
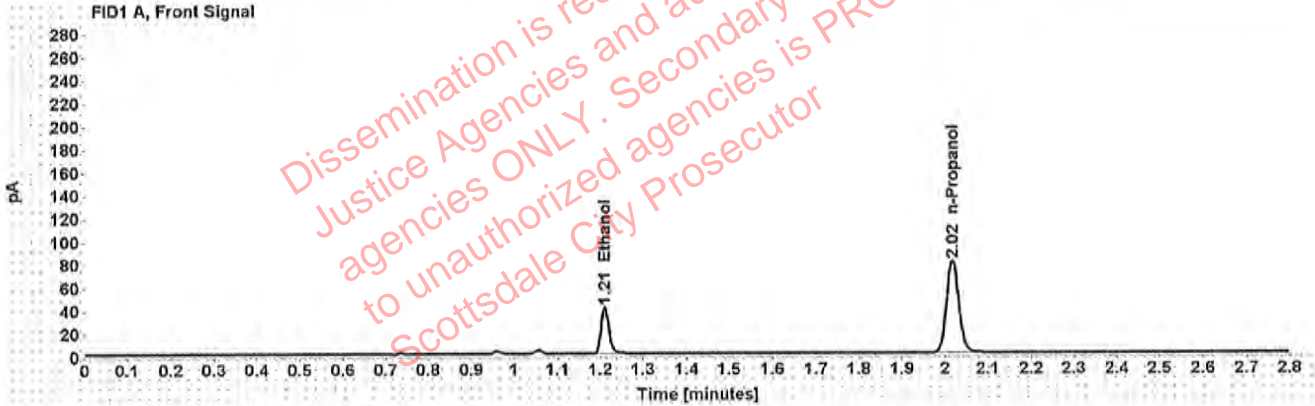


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0831	1.211	52.405
n-Propanol	-----	2.017	159.486

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.916
Ethanol	1.377	64.685
n-Propanol	2.471	195.948

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	15
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:18:58 PM
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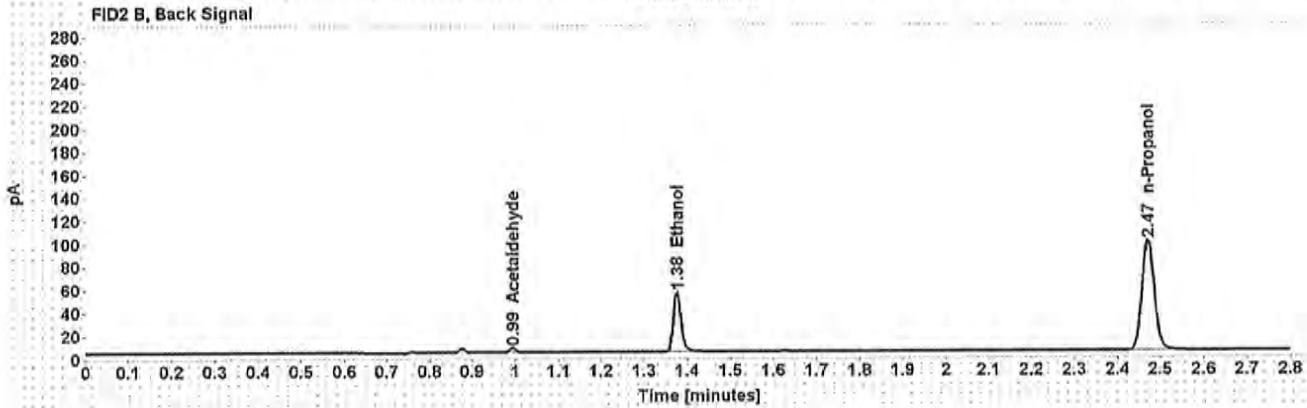
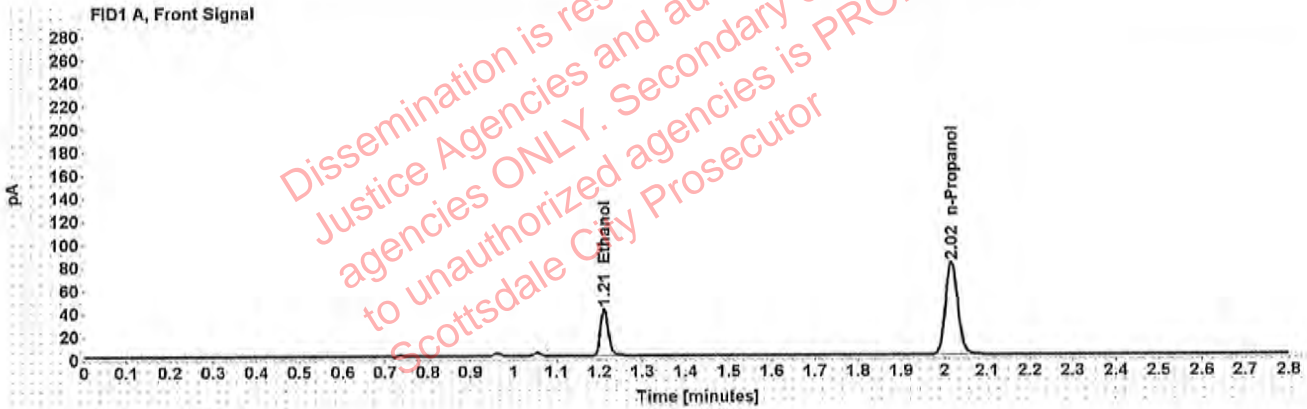


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0835	1.211	52.777
n-Propanol	-----	2.016	159.911

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.899
Ethanol	1.376	65.040
n-Propanol	2.471	196.330

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	16
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:22:57 PM
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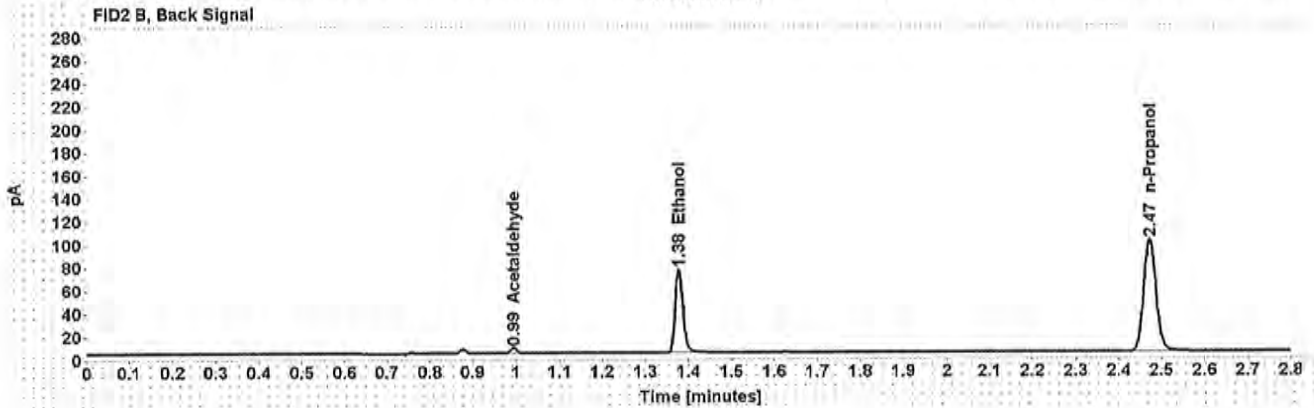
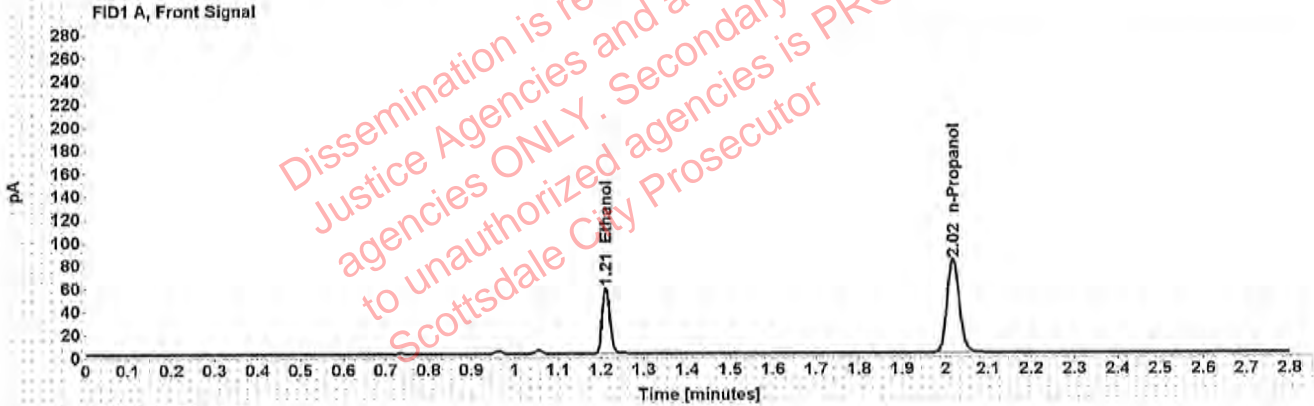


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1146	1.211	73.678
n-Propanol	-----	2.017	161.861

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.995	4.556
Ethanol	1.377	90.947
n-Propanol	2.472	198.877

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	17
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:26:58 PM
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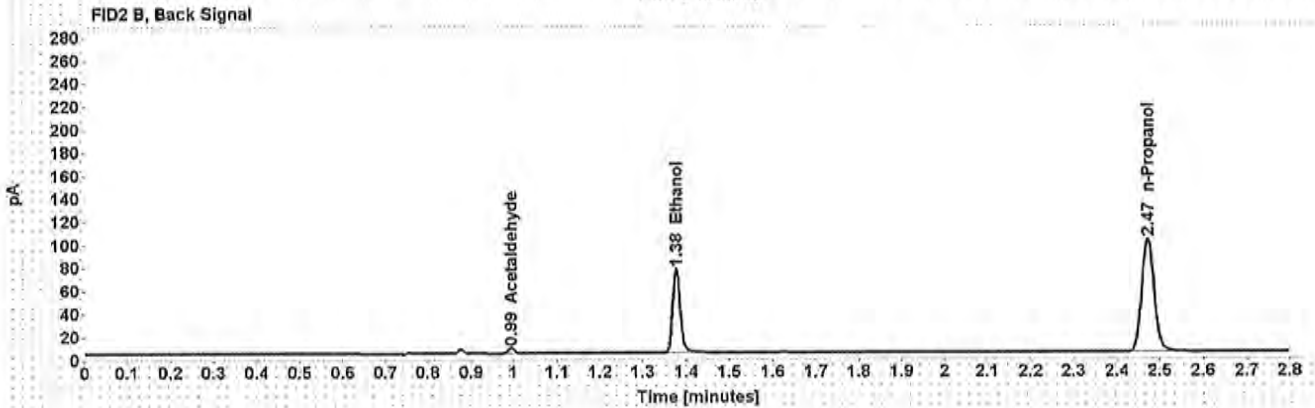
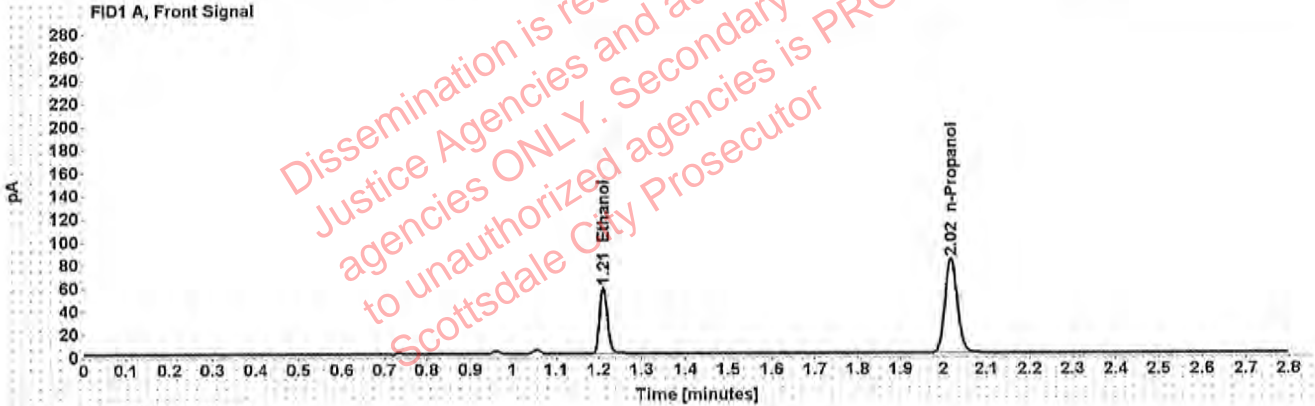


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1140	1.211	73.821
n-Propanol	-----	2.017	163.013

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.678
Ethanol	1.377	91.177
n-Propanol	2.472	200.400

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	18
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:30:57 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\18.D	Analyst:	Raines

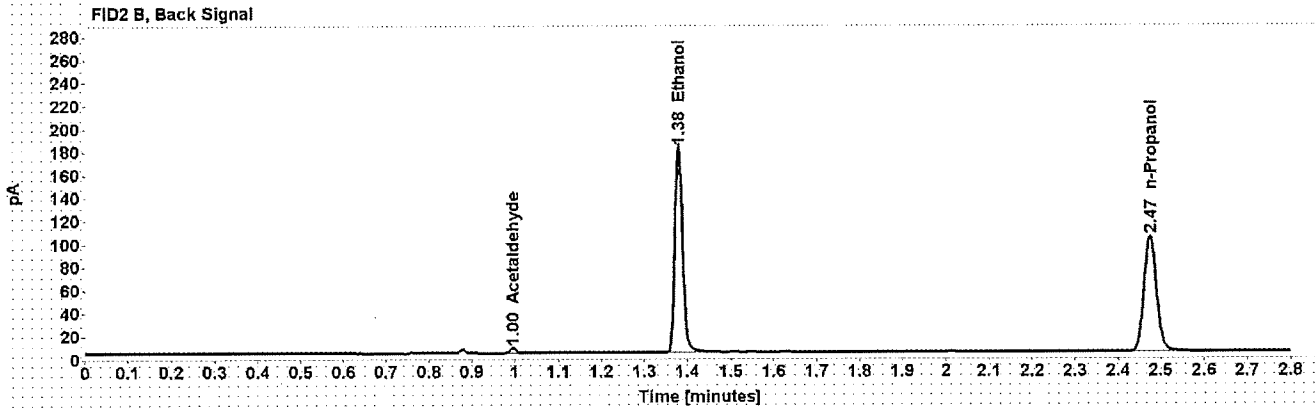
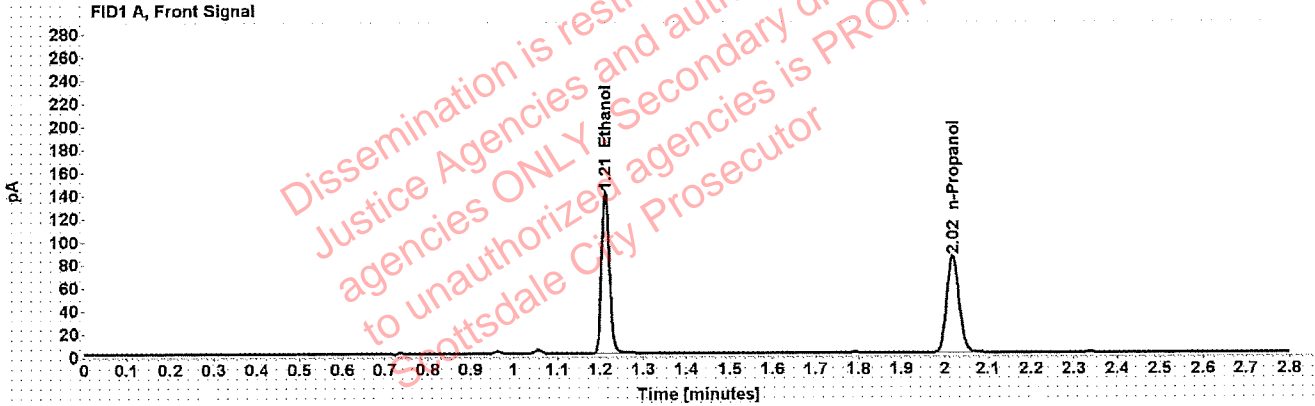


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2690	1.212	180.033
n-Propanol	-----	2.019	167.121

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.996	4.213
Ethanol	1.380	225.722
n-Propanol	2.475	205.474

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	19
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:35:12 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\19.D	Analyst:	Raines

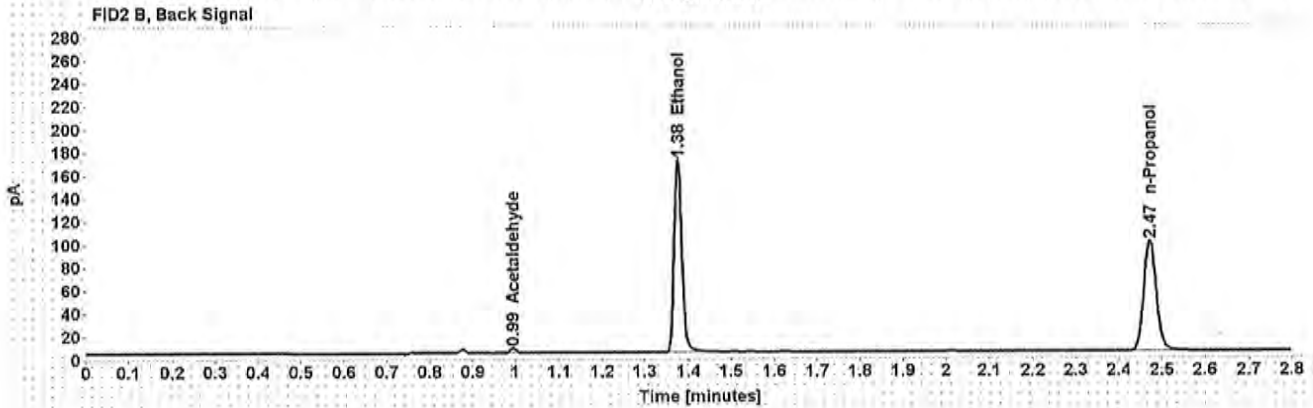
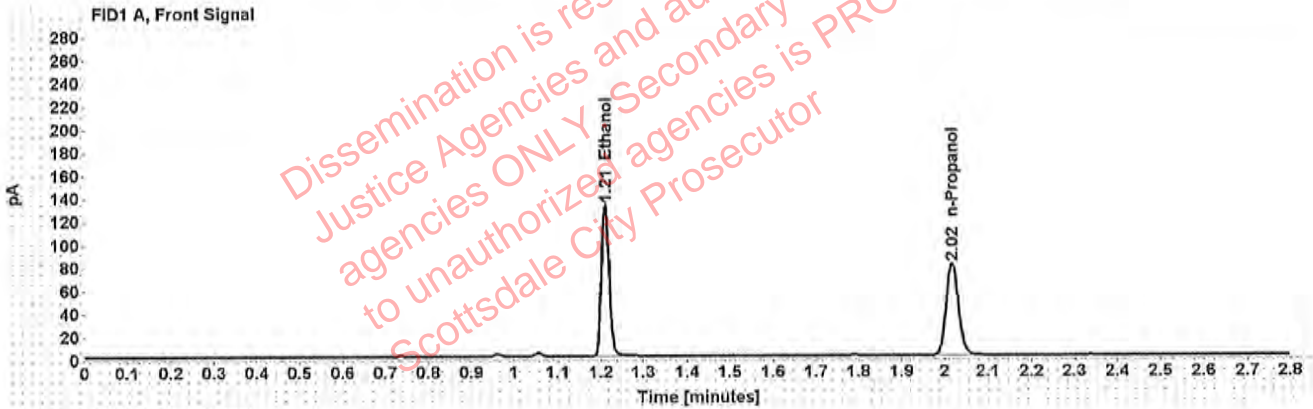


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2644	1.210	168.478
n-Propanol	-----	2.017	159.117

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.080
Ethanol	1.376	210.858
n-Propanol	2.472	195.647

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	21
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:43:13 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\21.D	Analyst:	Raines

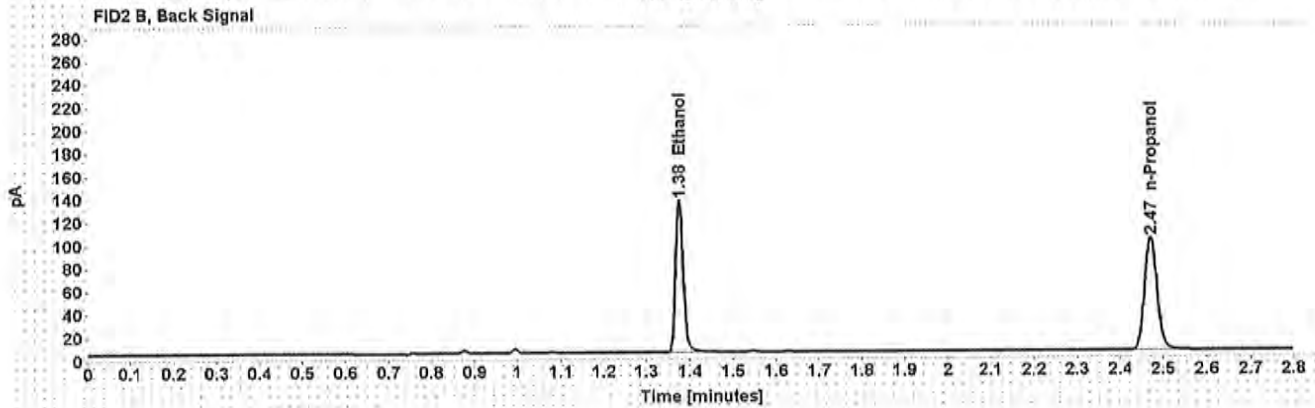
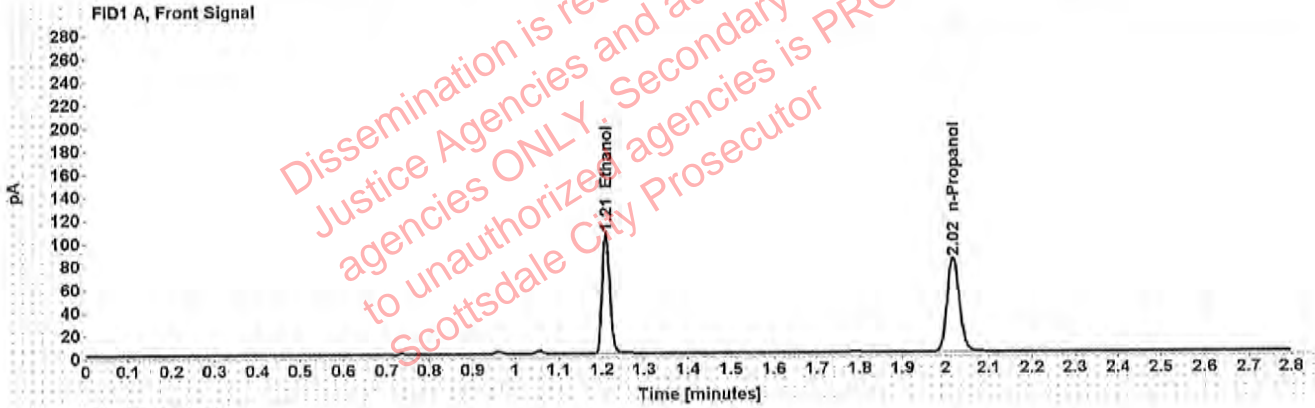


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2051	1.210	133.520
n-Propanol	-----	2.016	162.850

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

Compound	Time (min)	Peak Area
Ethanol	1.376	167.566
n-Propanol	2.471	199.903

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	22
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:47:13 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\22.D	Analyst:	Raines

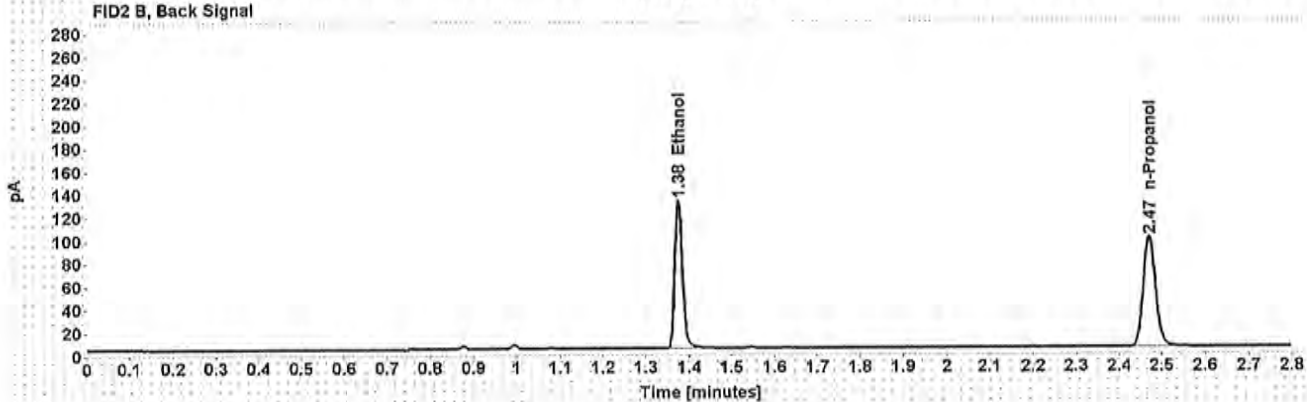
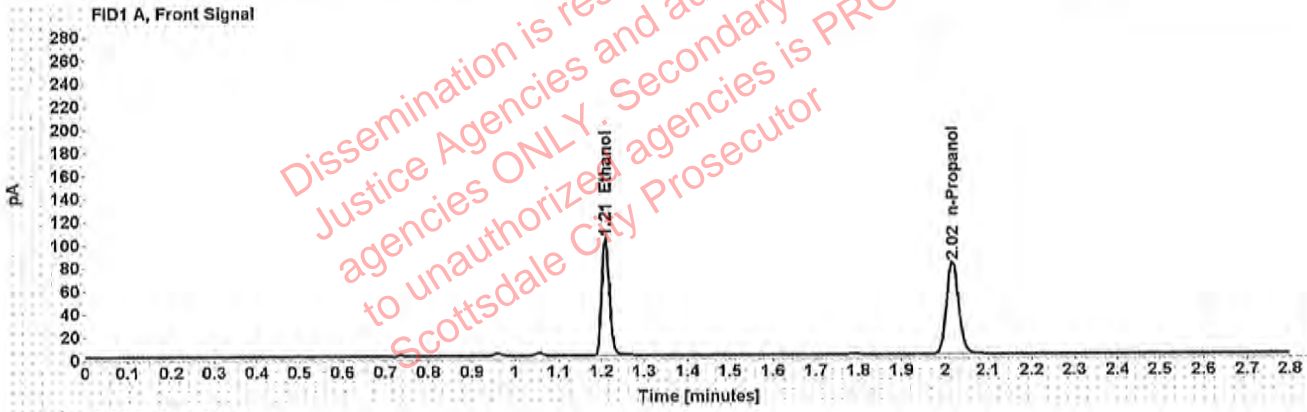


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2042	1.210	130.073
n-Propanol	-----	2.016	159.368

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

Compound	Time (min)	Peak Area
Ethanol	1.376	163.063
n-Propanol	2.471	195.668

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	23
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:51:13 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\23.D	Analyst:	Raines

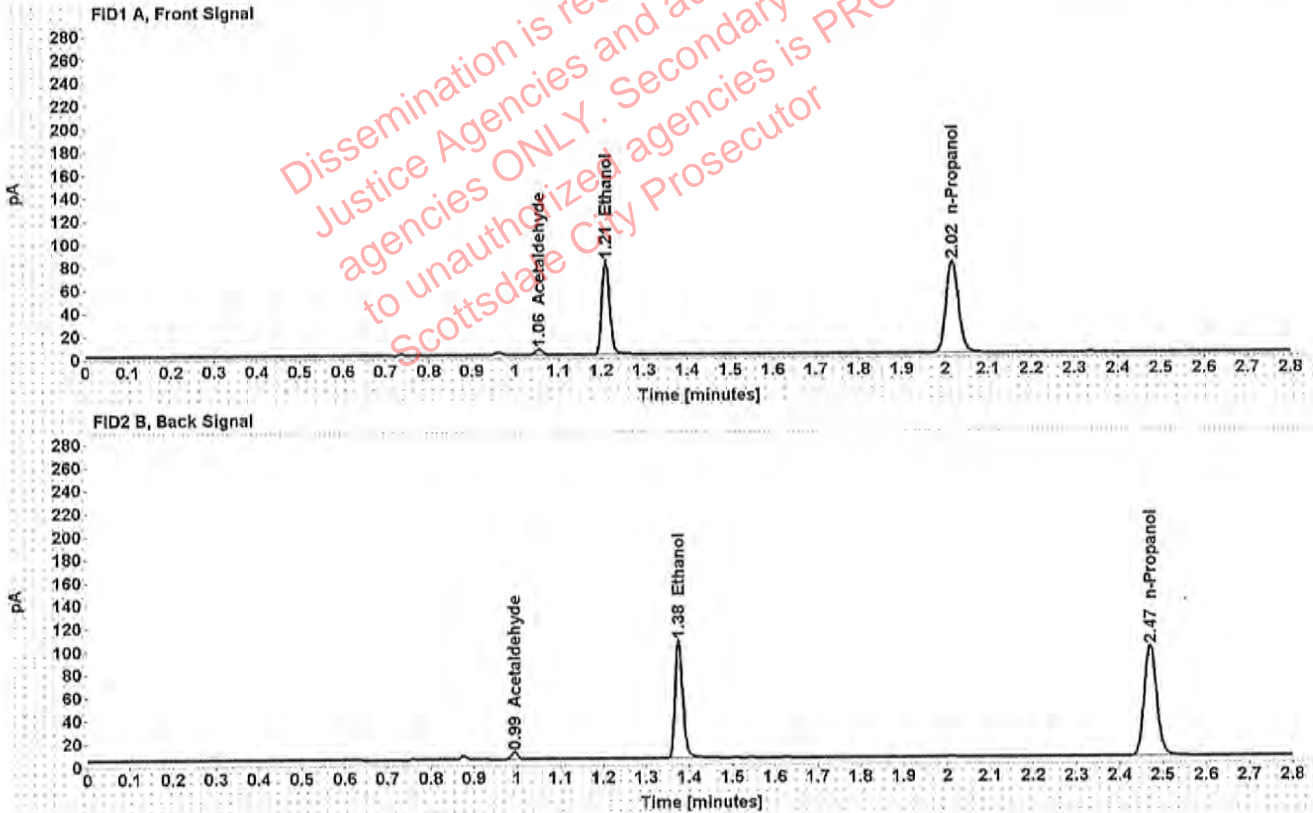


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.759
>Ethanol	0.1633	1.210	103.517
n-Propanol	-----	2.016	158.941

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	6.250
Ethanol	1.376	130.164
n-Propanol	2.471	195.140

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	24
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:55:12 PM
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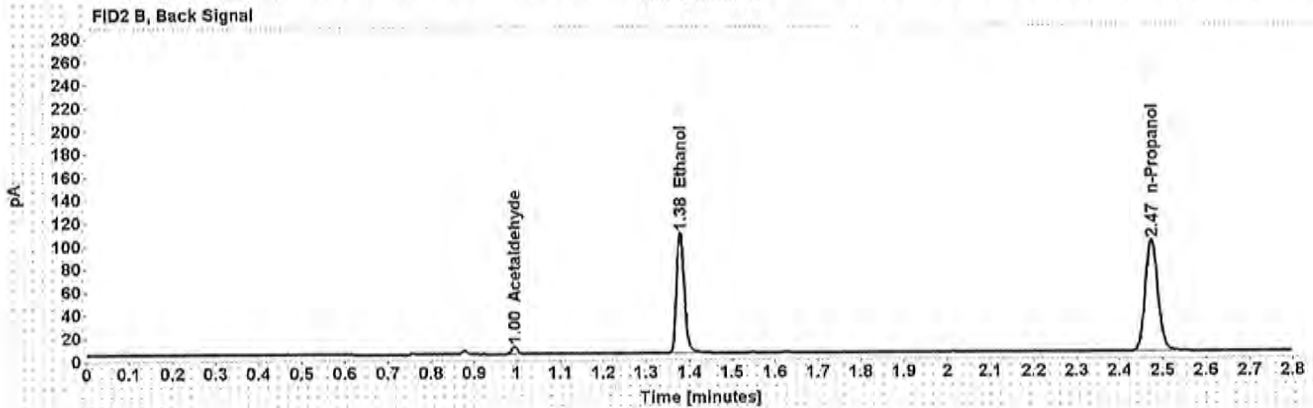
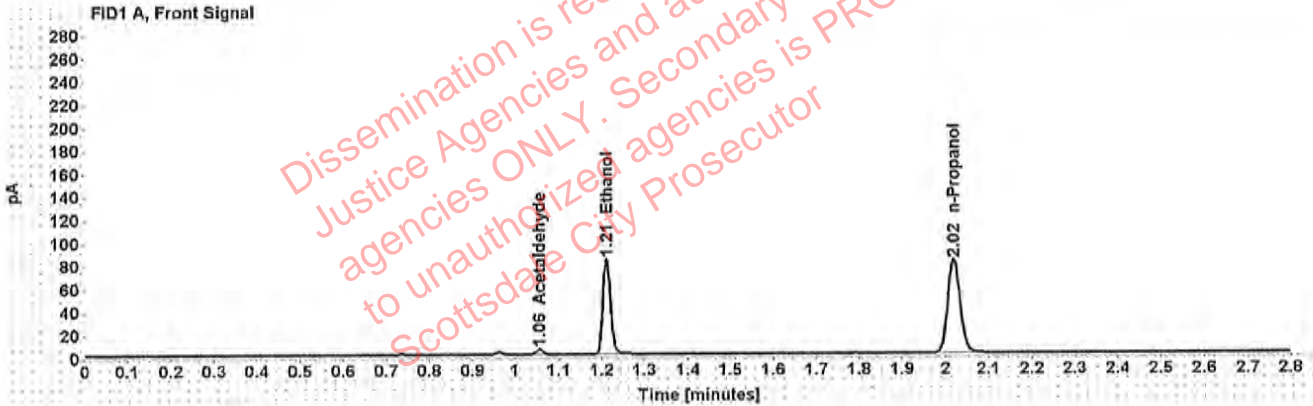


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.057	4.630
>Ethanol	0.1653	1.212	106.731
n-Propanol	-----	2.018	161.863

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.995	6.017
Ethanol	1.379	133.677
n-Propanol	2.474	198.295

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	25
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 1:59:27 PM
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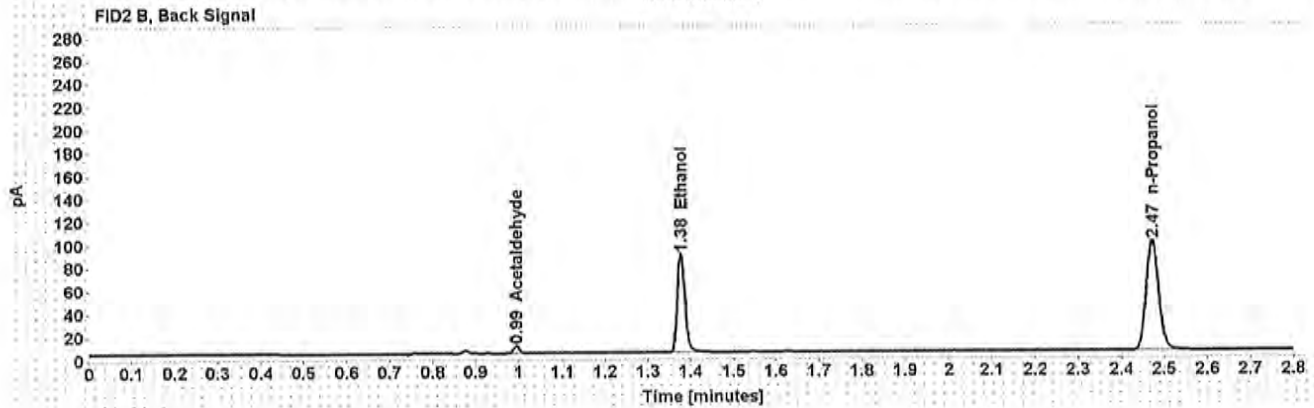
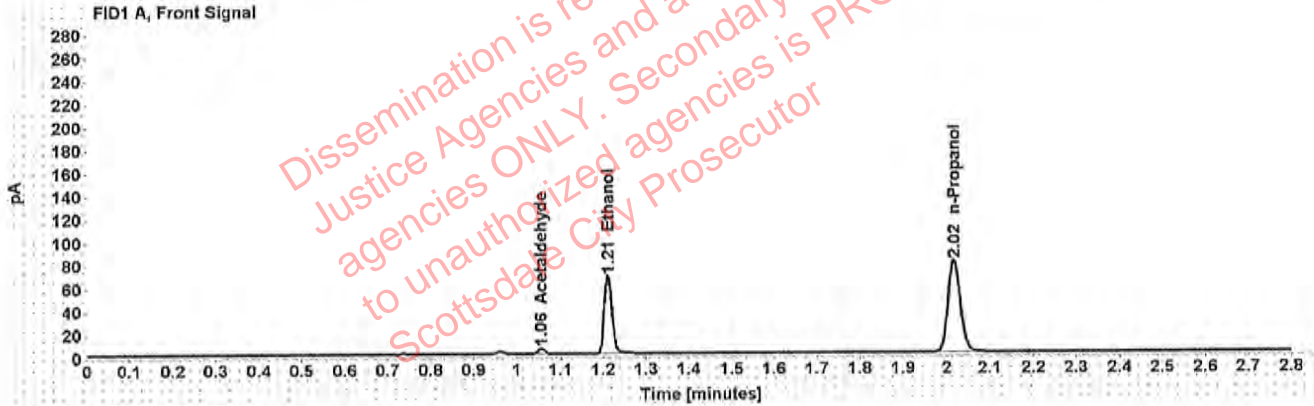


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	4.552
>Ethanol	0.1373	1.211	86.844
n-Propanol	-----	2.017	158.789

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.995	5.987
Ethanol	1.377	107.317
n-Propanol	2.472	195.092

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	26
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:03:27 PM
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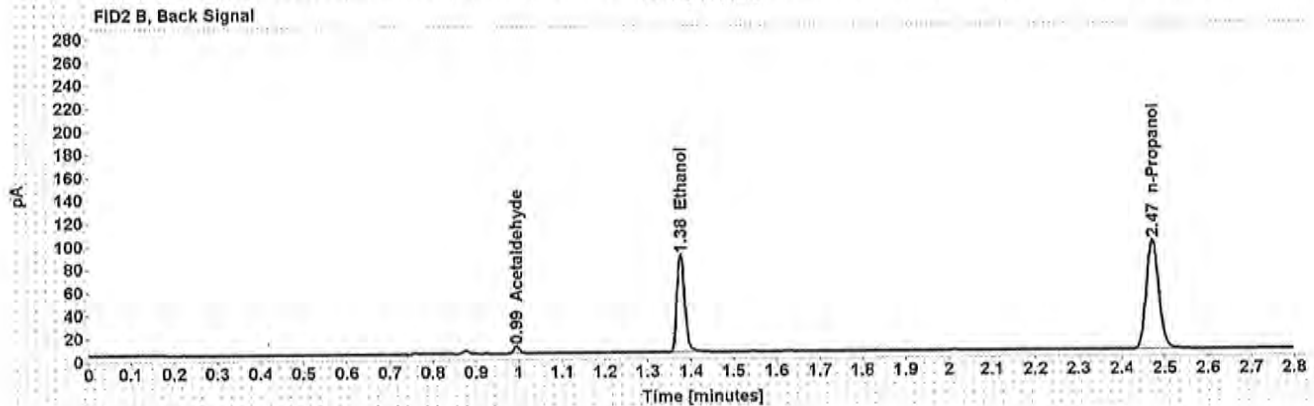
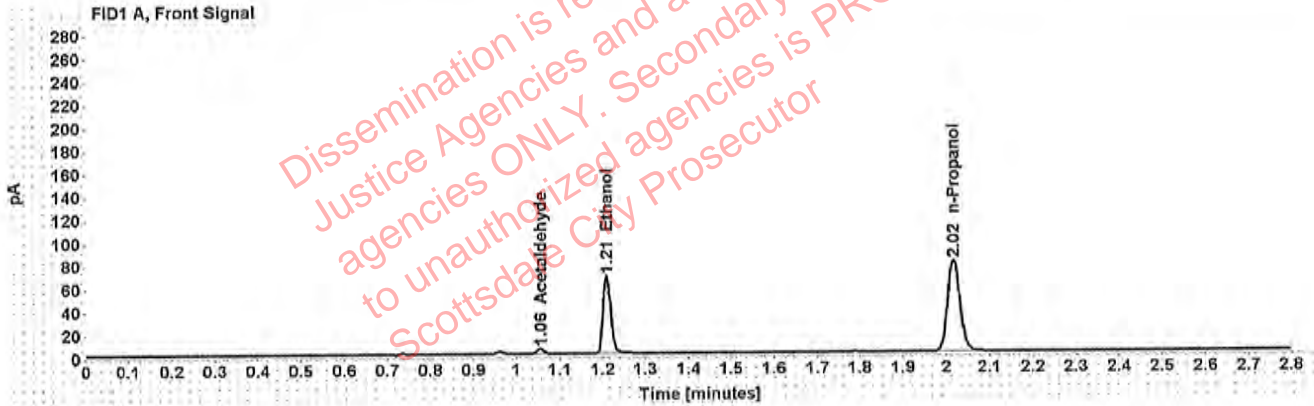


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	4.585
>Ethanol	0.1362	1.210	85.837
n-Propanol	-----	2.017	158.280

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	6.045
Ethanol	1.376	106.407
n-Propanol	2.471	194.823

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	27
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:07:27 PM
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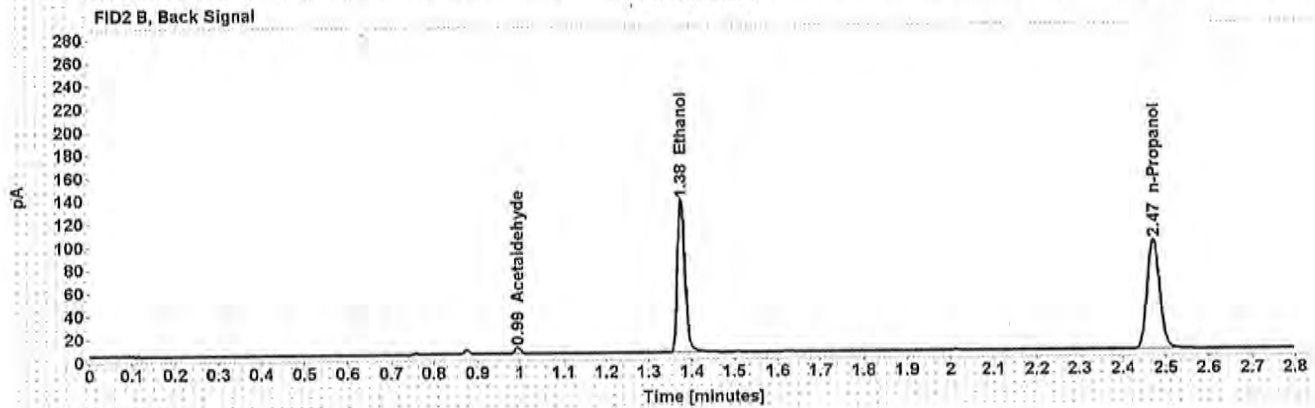
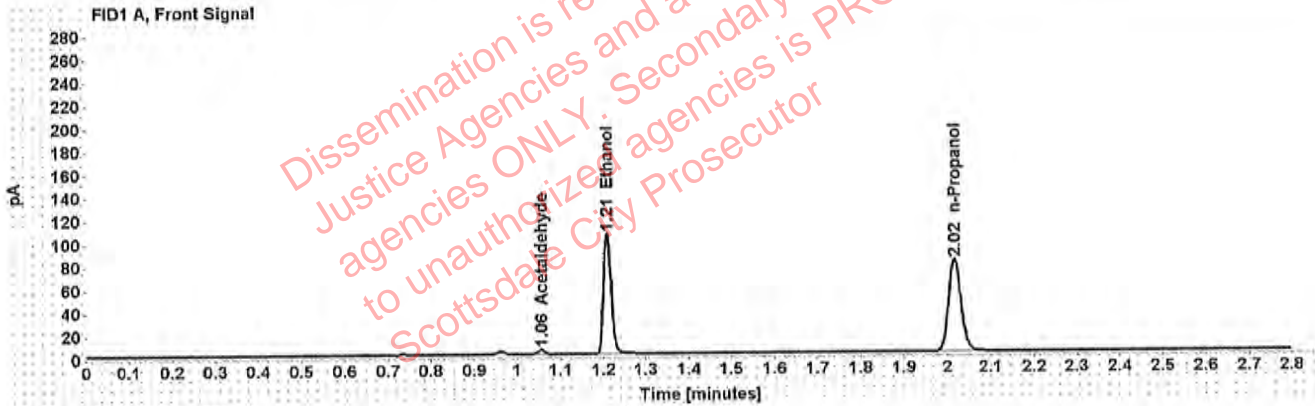


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.173
>Ethanol	0.2103	1.210	133.603
n-Propanol	-----	2.016	158.870

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	5.509
Ethanol	1.375	167.639
n-Propanol	2.471	195.257

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	28
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:11:27 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\28.D	Analyst:	Raines

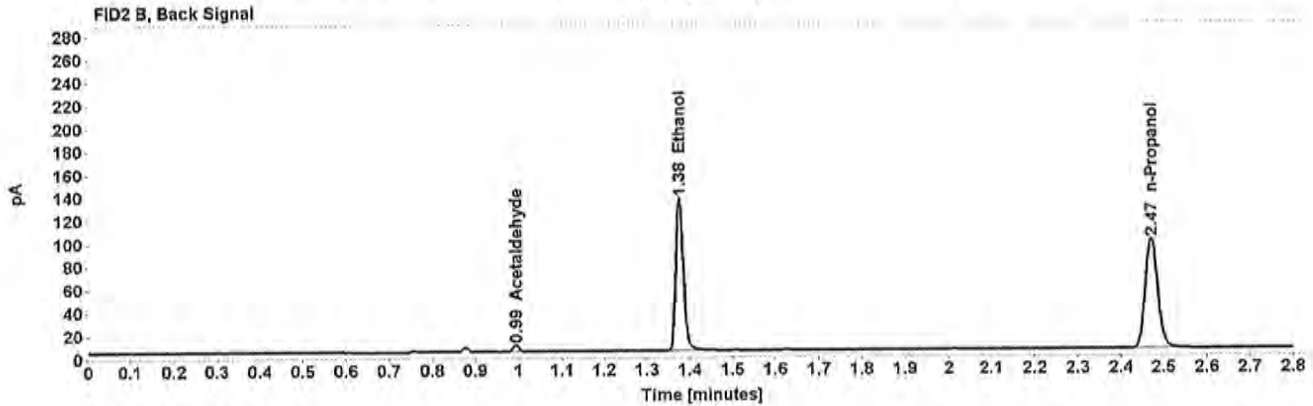
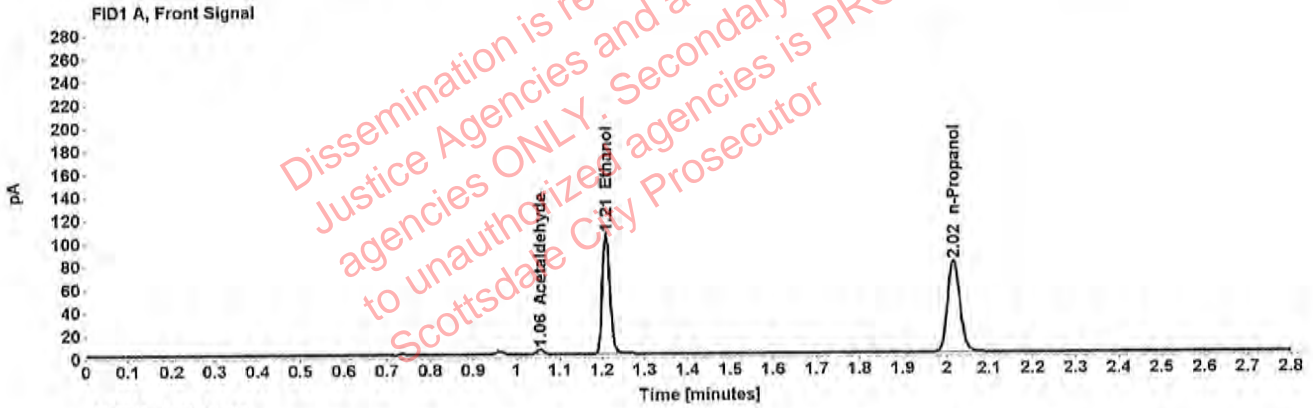


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	4.248
>Ethanol	0.2107	1.210	133.594
n-Propanol	-----	2.016	158.591

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	5.595
Ethanol	1.376	167.863
n-Propanol	2.471	194.843

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	29
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:15:27 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\29.D	Analyst:	Raines

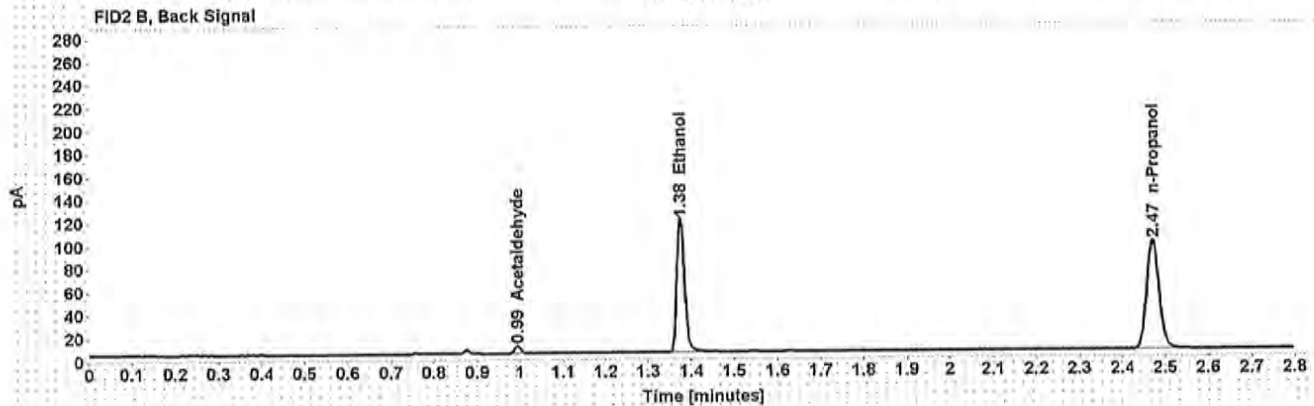
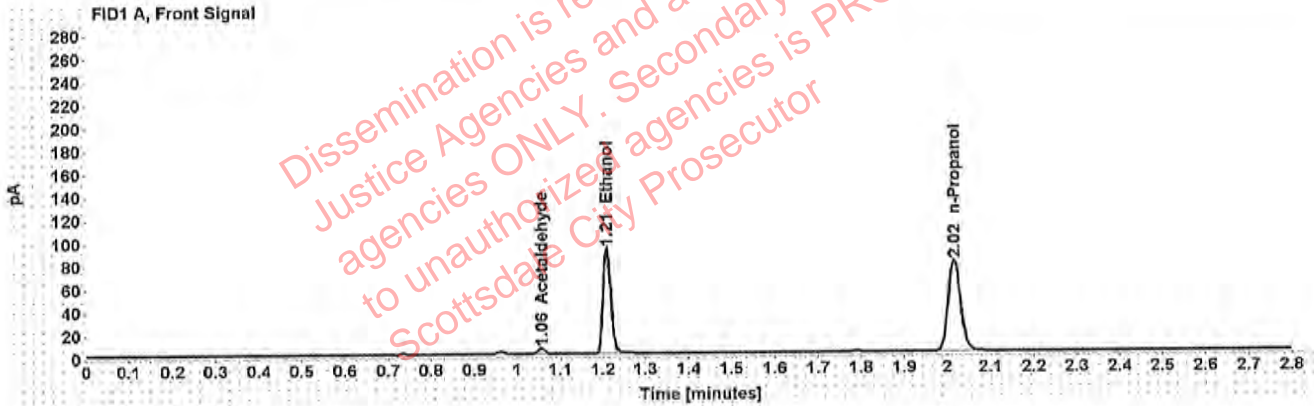


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.984
>Ethanol	0.1855	1.210	116.872
n-Propanol	-----	2.016	157.746

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	6.540
Ethanol	1.375	144.990
n-Propanol	2.471	193.851

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	30
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:19:27 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\30.D	Analyst:	Raines

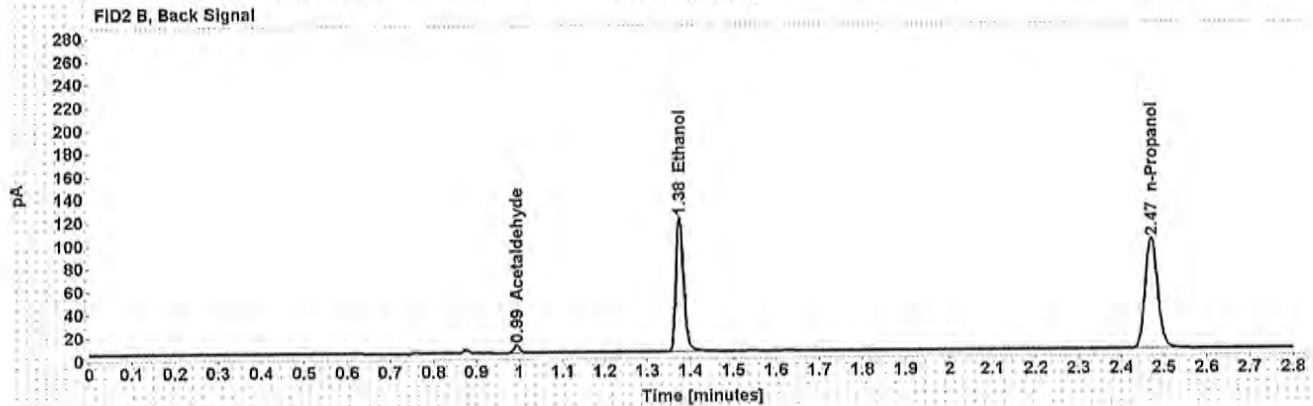
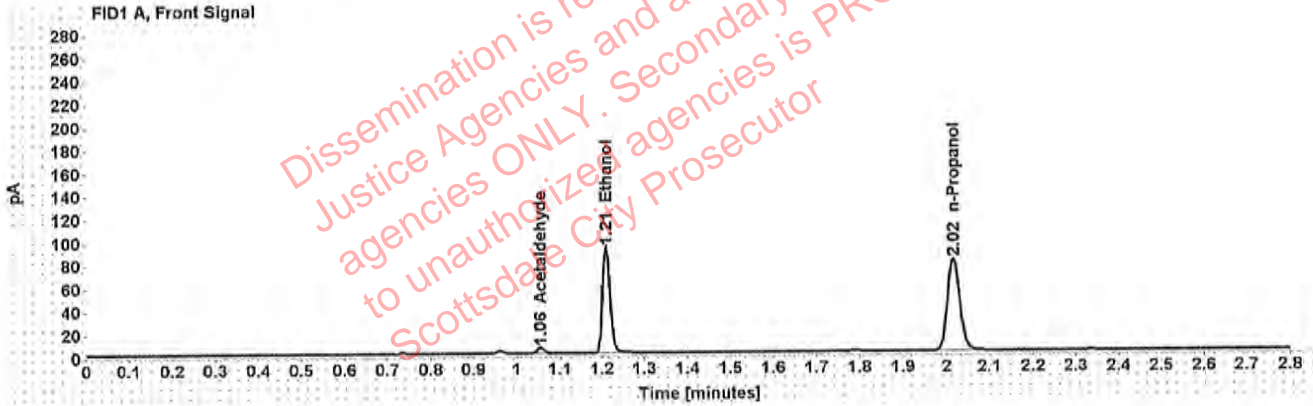


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	5.039
>Ethanol	0.1852	1.210	117.592
n-Propanol	-----	2.016	158.976

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	6.590
Ethanol	1.375	147.588
n-Propanol	2.471	195.441

Case: [REDACTED] : Raines, Melinda E. - (23-May-2019)

User: mraines 5/23/2019

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	32
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:27:42 PM
Data file:	C:\Chem3211\Data\rsdtest3\23May19\32.D	Analyst:	Raines

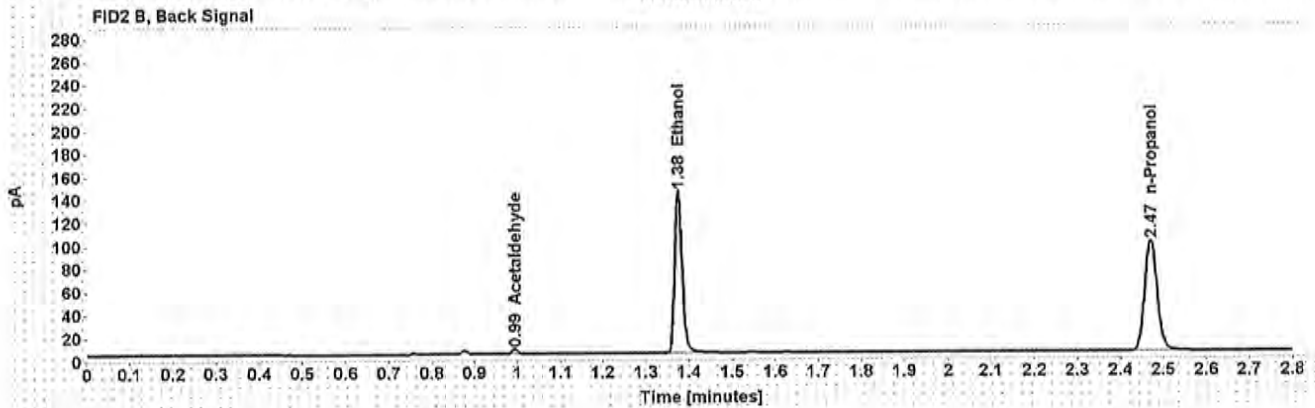
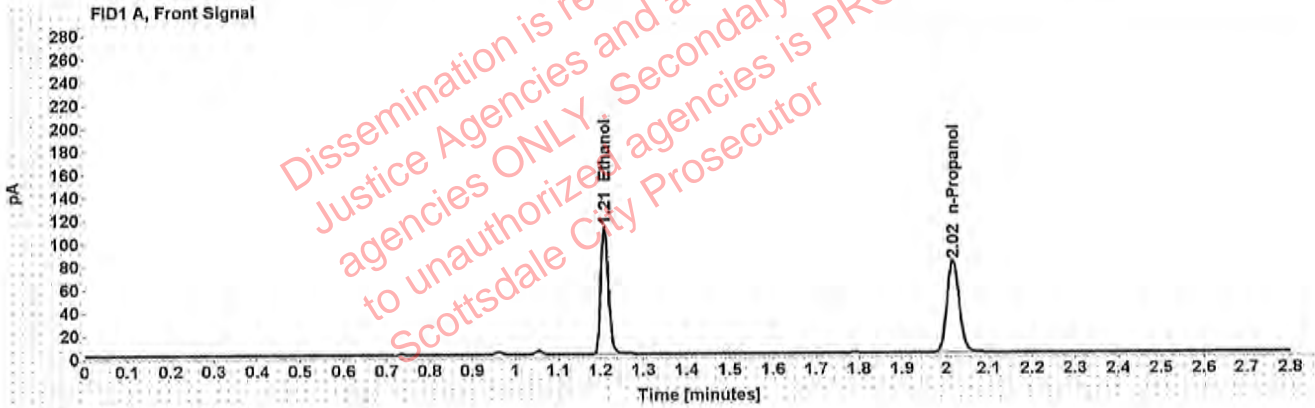


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2220	1.209	141.717
n-Propanol	-----	2.016	159.588

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.163
Ethanol	1.375	177.867
n-Propanol	2.471	195.920

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	33
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:31:41 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\33.D	Analyst:	Raines

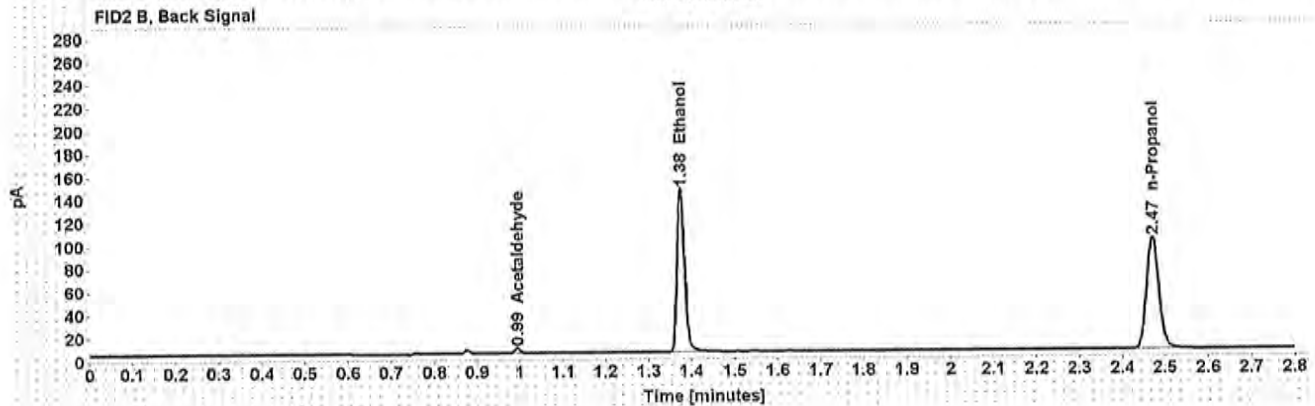
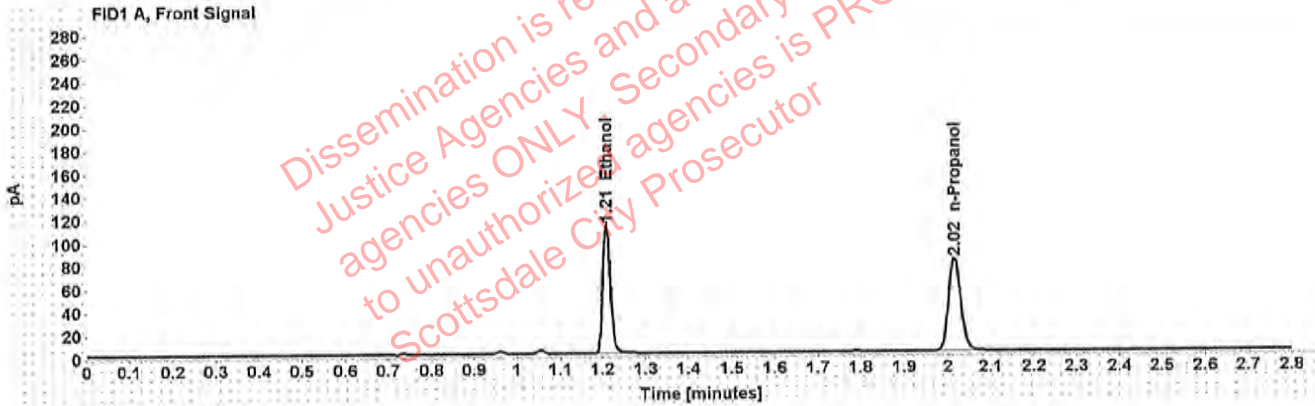


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2221	1.210	142.758
n-Propanol	-----	2.016	160.685

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.263
Ethanol	1.375	179.124
n-Propanol	2.471	197.368

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	34
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:35:41 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\34.D	Analyst:	Raines

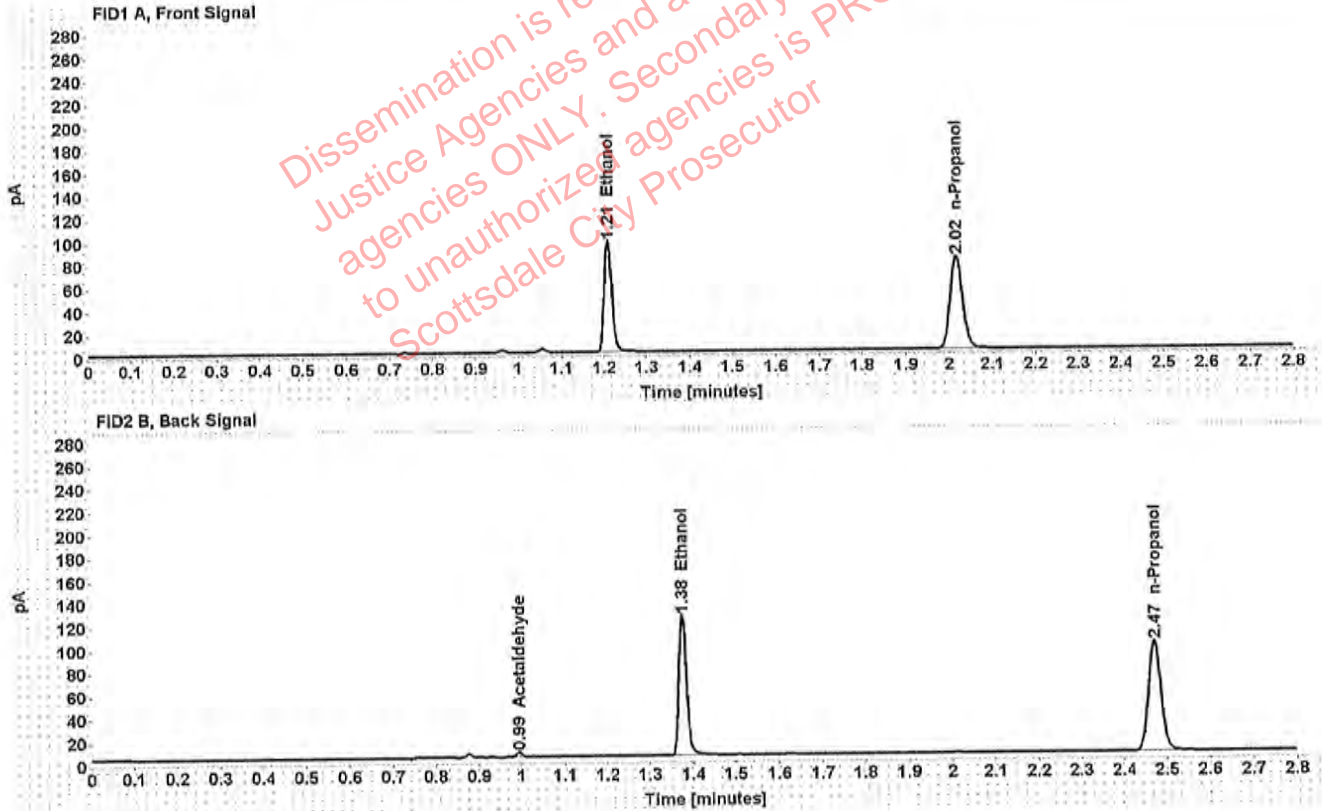


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1926	1.210	122.589
n-Propanol	-----	2.016	159.304

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.855
Ethanol	1.375	154.008
n-Propanol	2.471	195.493

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	35
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:39:41 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\35.D	Analyst:	Raines

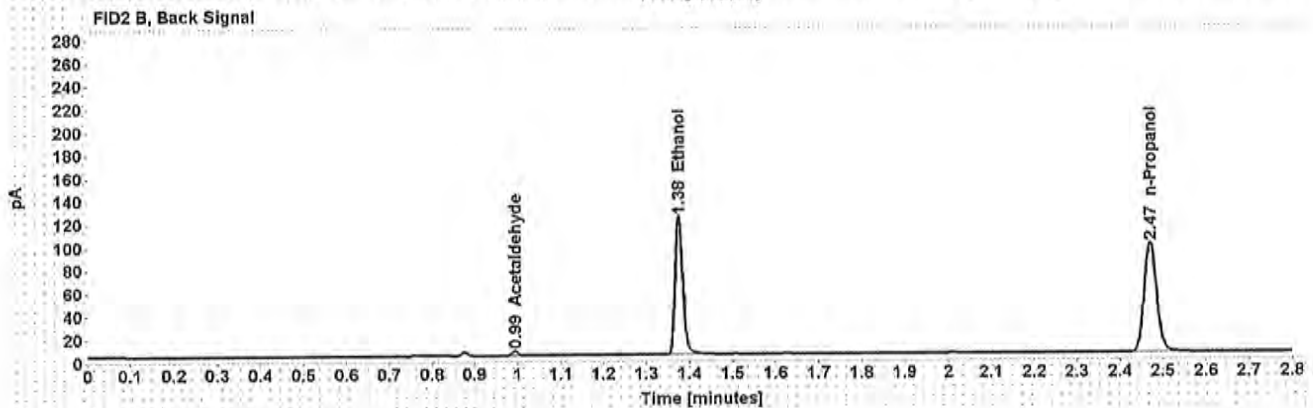
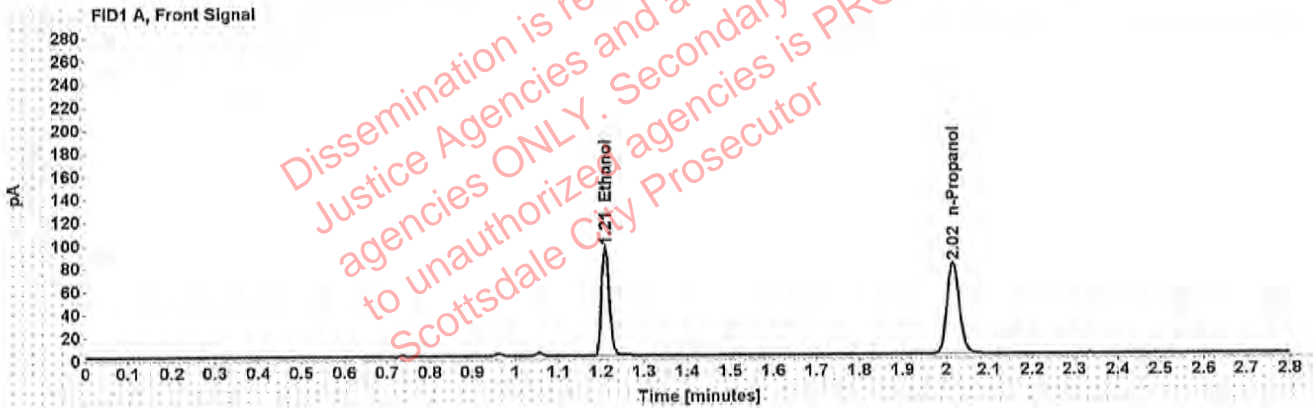


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1922	1.210	121.261
n-Propanol	-----	2.016	157.916

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.808
Ethanol	1.375	152.540
n-Propanol	2.471	194.008

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	36
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:43:42 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\36.D	Analyst:	Raines

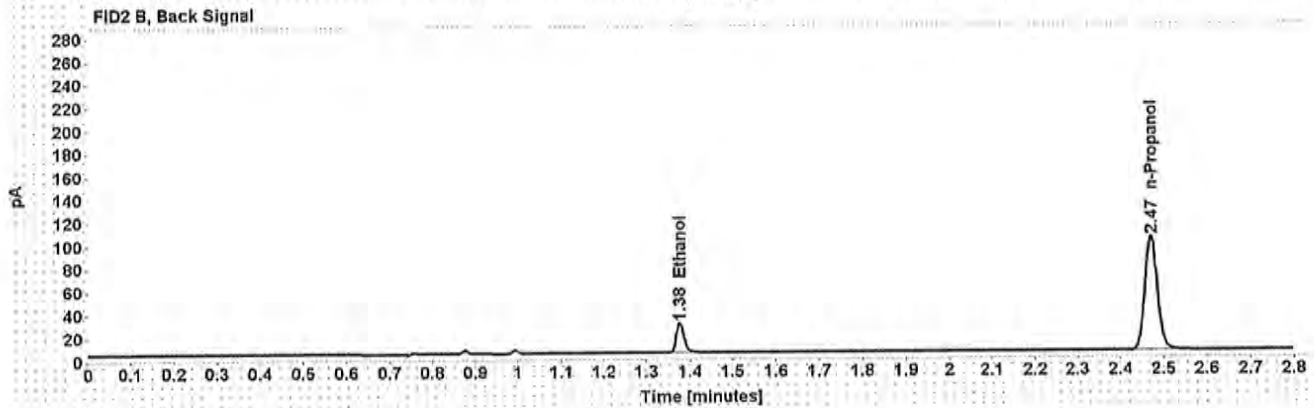
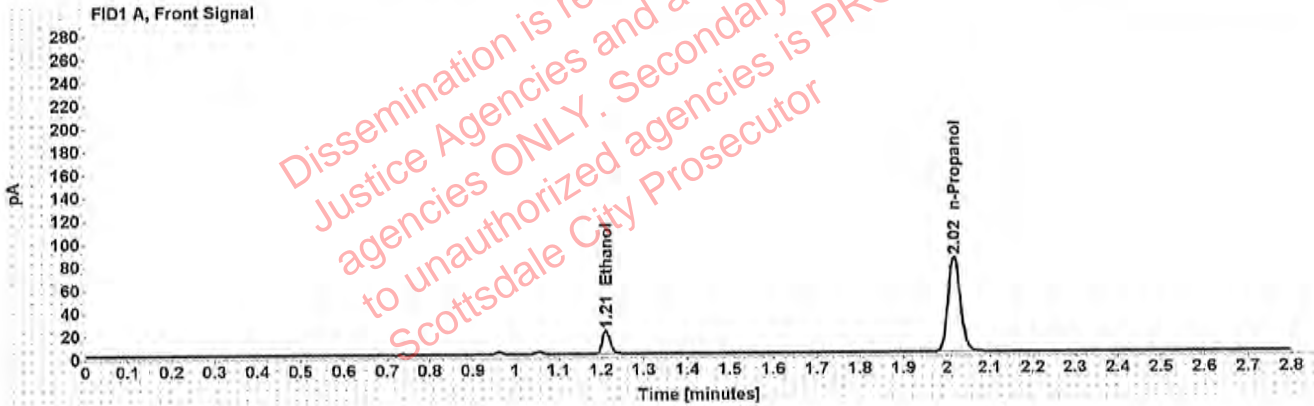


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0414	1.211	26.357
n-Propanol	-----	2.016	164.355

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

Compound	Time (min)	Peak Area
Ethanol	1.377	33.189
n-Propanol	2.471	202.156

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	Vial:	37
Description:	[redacted]	LIMS ID:	[redacted]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:47:57 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\37.D	Analyst:	Raines

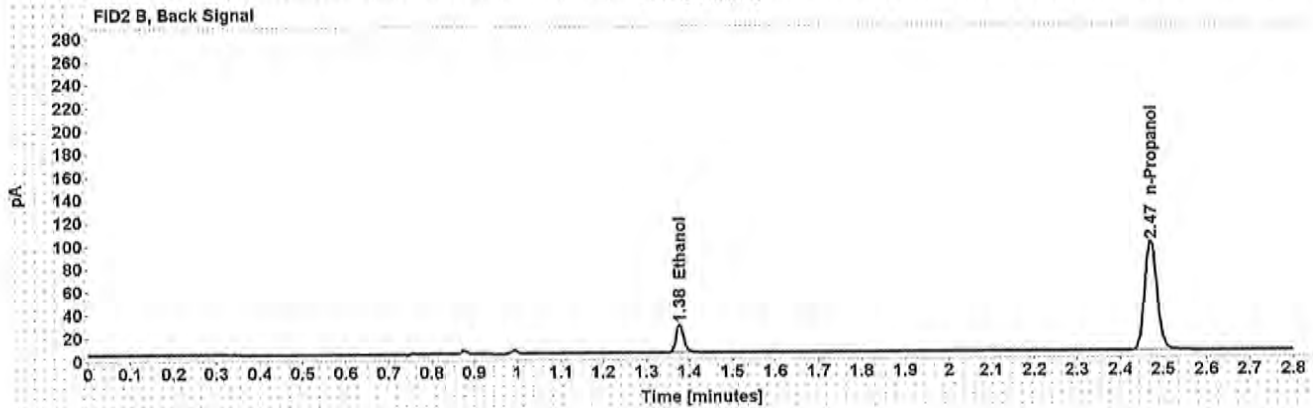
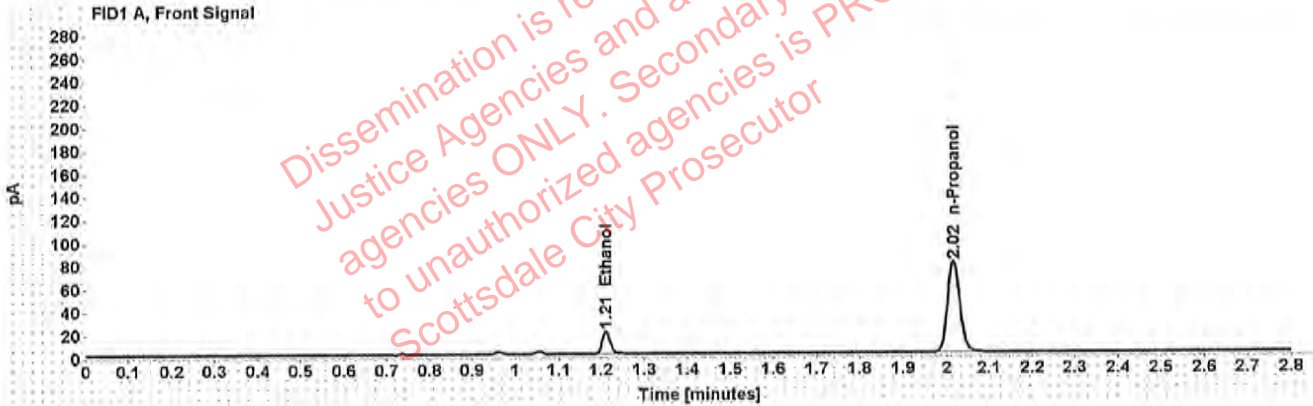


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0413	1.211	25.235
n-Propanol	-----	2.016	157.732

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

Compound	Time (min)	Peak Area
Ethanol	1.377	31.822
n-Propanol	2.471	193.824

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	38
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:51:57 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\38.D	Analyst:	Raines

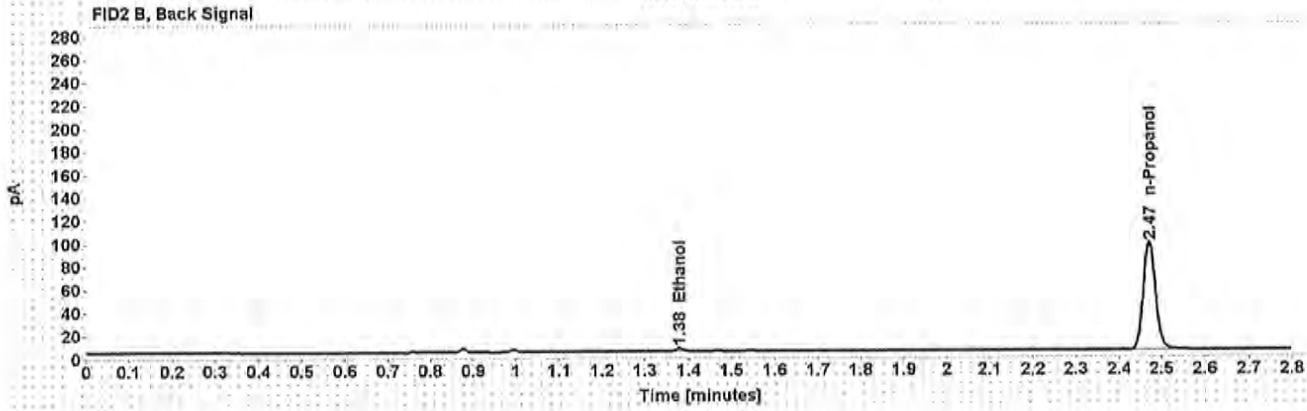
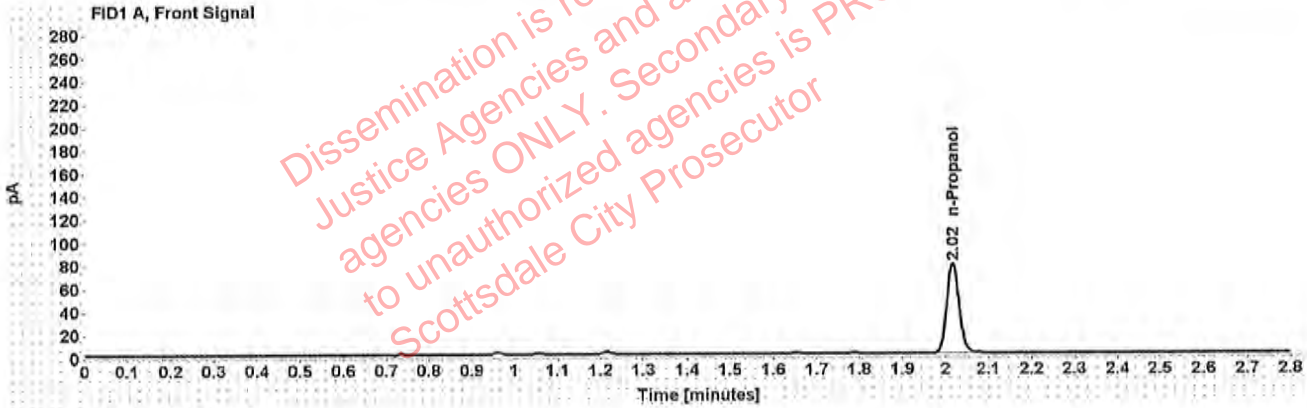


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	156.039

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

Compound	Time (min)	Peak Area
Ethanol	1.379	3.948
n-Propanol	2.471	191.728

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Vial:	39
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	23May19
Instrument:	US14173023 CN14160045	Injection date:	5/23/2019 2:55:56 PM
Data file:	C:\Chem32\1\Data\rsdtest3\23May19\39.D	Analyst:	Raines

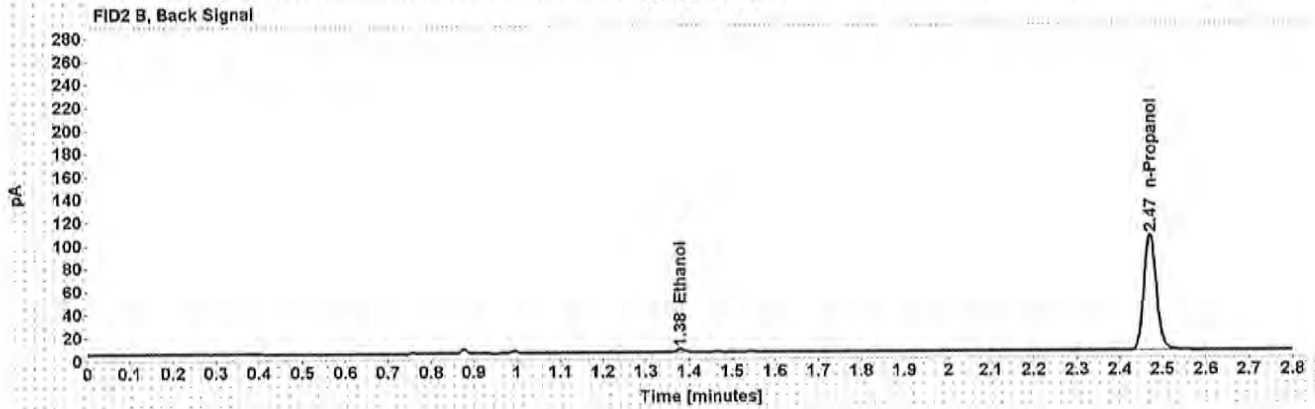
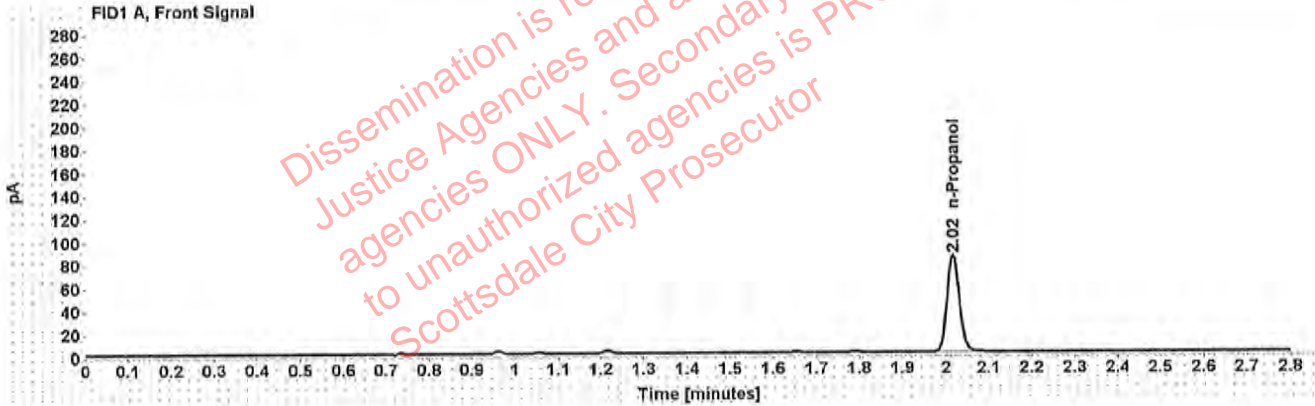


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	167.713

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

Compound	Time (min)	Peak Area
Ethanol	1.379	4.315
n-Propanol	2.471	206.322