

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 3/22/23 SEQUENCE NAME 22Mar23

**EQUIPMENT**

Pipettor  Hamilton ML600EH7497  Hamilton ML600GJ10749  
 Gas Chromatograph  Agilent US14173023

**INSTRUMENT CALIBRATION**

Vial 1 0.02 calibrator Lot FN10051909 Coefficient of determination (r<sup>2</sup>)  
 Vial 2 0.10 calibrator Lot FN05311902 0.99991  
 Vial 3 0.20 calibrator Lot FN02052101  
 Vial 4 0.40 calibrator Lot FN03052102

**CALIBRATION VERIFICATION AND RESOLUTION TEST**


Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	Blank	Not detected	Not detected	SPD lab 122022AQ
6	Volatiles mix	6 compounds	6 compounds	SPD lab 050721MIX
7	Aqueous control	0.400 g/dL	0.399 g/dL	Lipomed 30012020-A
8	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 14082019-B
9	Blood control	0.199 g/dL	0.205 g/dL	ACQ 4110320133/10
20	Aqueous control	0.080 g/dL	0.080 g/dL	Lipomed 20012020-B
31	Aqueous control	0.080 g/dL	0.080 g/dL	Lipomed 20012020-B
40	Aqueous control	0.400 g/dL	0.394 g/dL	Lipomed 30012020-A
41	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 14082019-B
42	Blood control	0.199 g/dL	0.200 g/dL	ACQ 4110320133/10
43	Blank	Not detected	Not detected	SPD Lab 011823WB

**SUBJECT SAMPLES**

Subjects in the sequence 14 Subjects requiring reanalysis 0

**ADDITIONAL NOTES:** All testing proceeded as expected.

Run valid   
 Run invalid

  
 Analyst

Run valid   
 Run invalid

  
 Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

PB

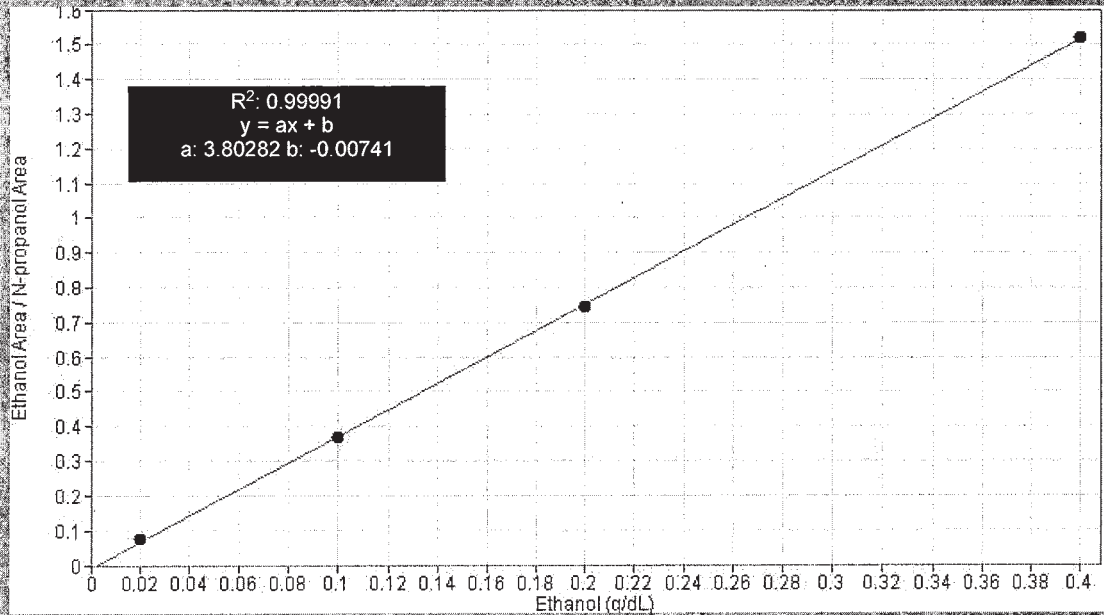
SEQUENCE NAME: 22Mar23

ANALYST: Brooke

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 122022AQ	5	negative	negative	-	-
0.400 30012020-A	7	0.399	0.400	0.25	-0.001
0.040 14082019-B	8	0.041	0.040	2.50	0.001
0.199 4110320133/10	9	0.205	0.199	3.02	0.006
0.080 20012020-B	20	0.080	0.080	0.00	0.000
0.080 20012020-B	31	0.080	0.080	0.00	0.000
0.400 30012020-A	40	0.394	0.400	1.50	-0.006
0.040 14082019-B	41	0.041	0.040	2.50	0.001
0.199 4110320133/10	42	0.200	0.199	0.50	0.001
blank 011823WB	43	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	12.344	165.664	0.075
0.100	60.033	162.171	0.370
0.200	123.725	165.838	0.746
0.400	252.096	166.109	1.518

**Calibration Line**



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN10051909	Vial: 1
Description: 0.020 calibrator	Sequence: 22Mar23
Method: ethanol quant.M	Injection date: 3/22/2023 1:27:19 PM
Instrument: US14173023 CN14160045	Analyst: Brooke <span style="float: right;">PB</span>
Data file: C:\Chem32\1\Data\22Mar23\1.D	

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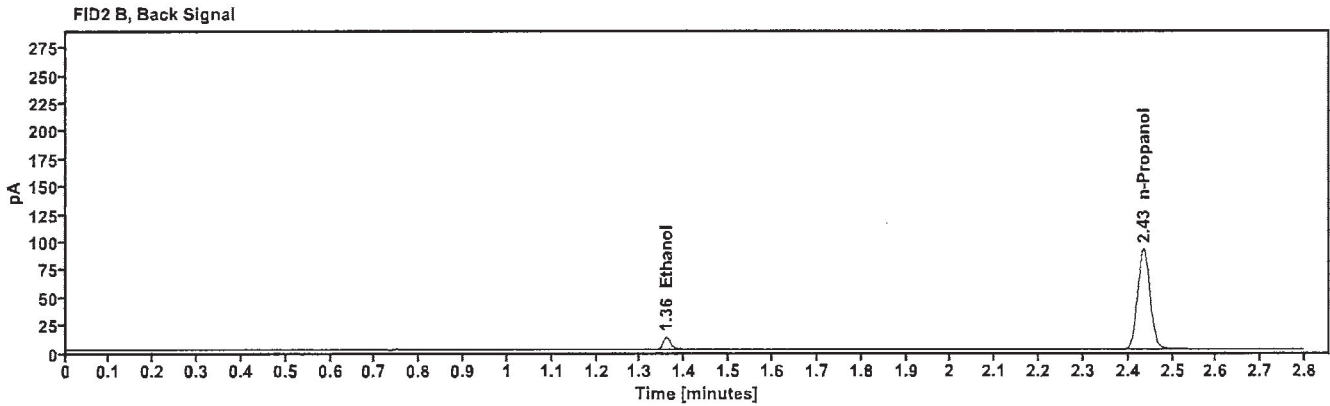
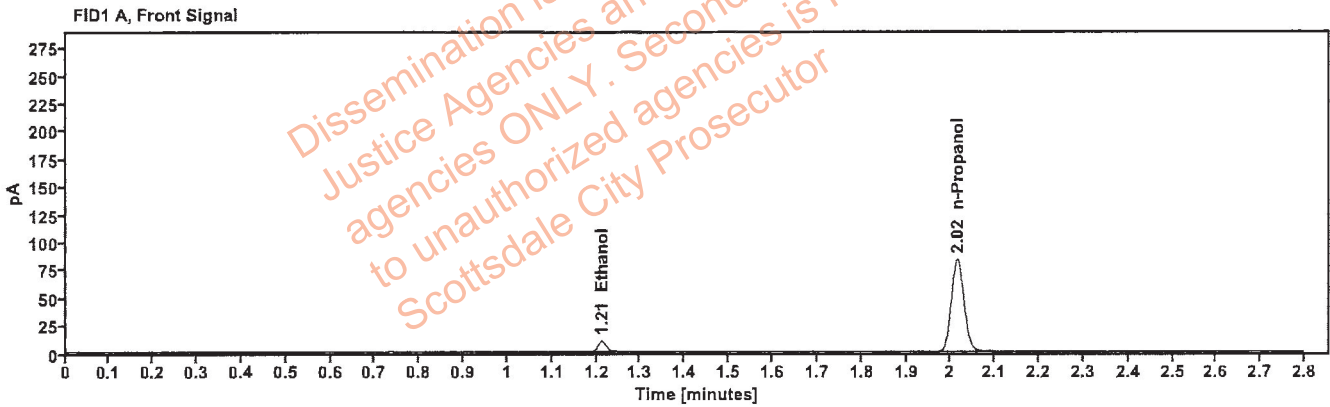


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.212	12.344
n-Propanol	2.015	165.664

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

Compound	Time (min)	Peak Area
Ethanol	1.359	13.225
n-Propanol	2.435	179.185

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN05311902	<b>Vial:</b> 2
<b>Description:</b> 0.100 calibrator	<b>Sequence:</b> 22Mar23
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 3/22/2023 1:31:19 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke <span style="float: right;">PB</span>
<b>Data file:</b> C:\Chem32\1\Data\22Mar23\2.D	

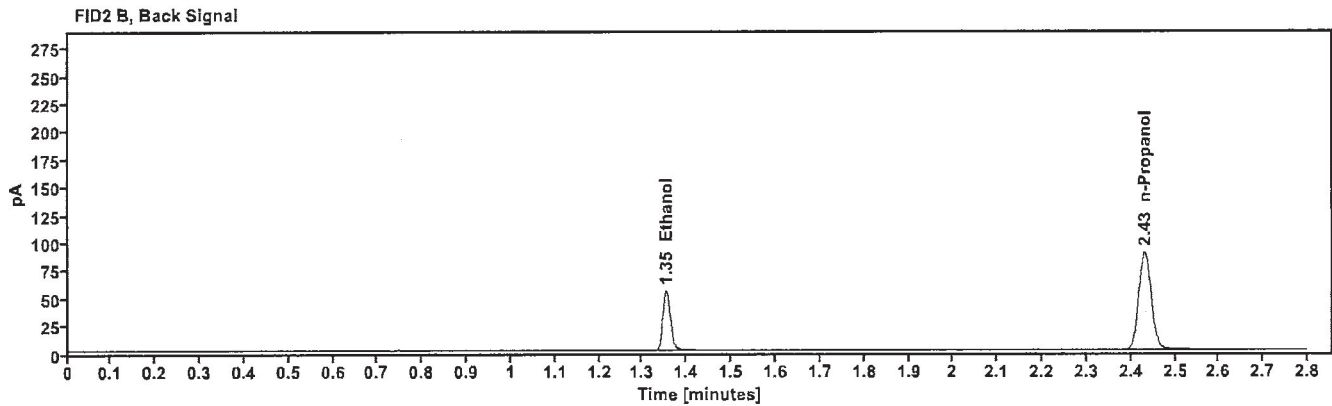
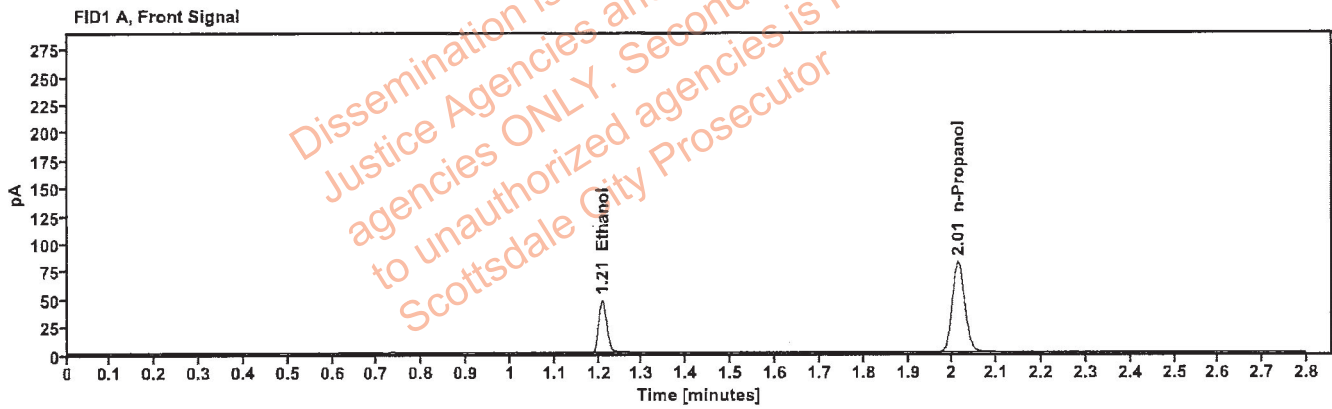


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	60.033
n-Propanol	2.013	162.171

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

Compound	Time (min)	Peak Area
Ethanol	1.354	64.964
n-Propanol	2.432	175.522

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN02052101	<b>Vial:</b> 3
<b>Description:</b> 0.200 calibrator	<b>Sequence:</b> 22Mar23
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 3/22/2023 1:35:20 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke <span style="float: right;">PB</span>
<b>Data file:</b> C:\Chem32\1\Data\22Mar23\3.D	

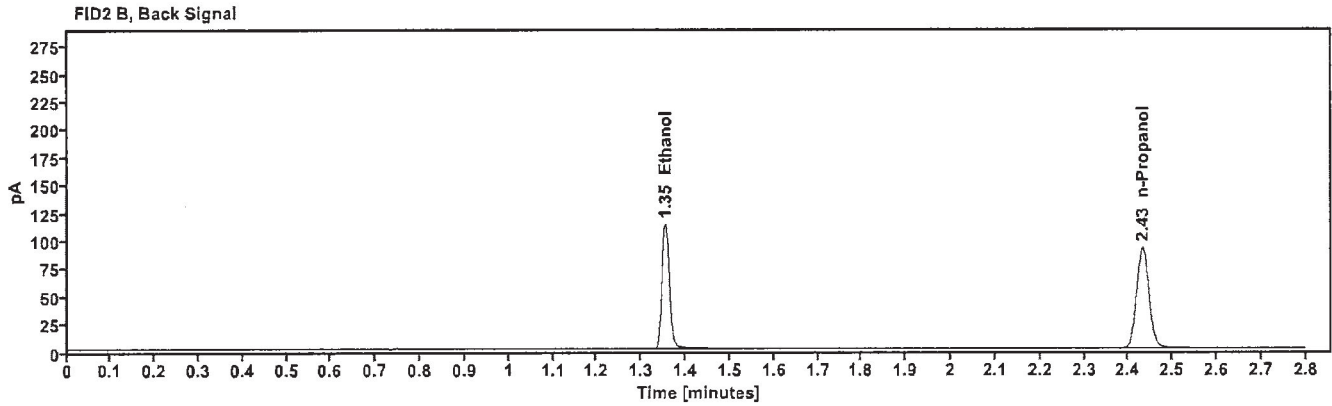
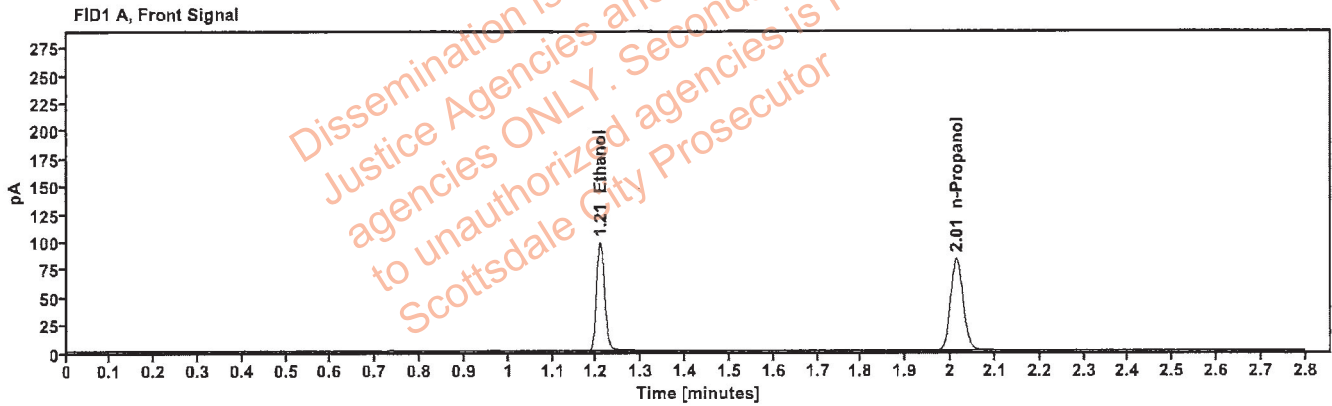


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	123.725
n-Propanol	2.013	165.838

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

Compound	Time (min)	Peak Area
Ethanol	1.354	134.920
n-Propanol	2.432	179.716

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN03052102	<b>Vial:</b> 4
<b>Description:</b> 0.400 calibrator	<b>Sequence:</b> 22Mar23
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 3/22/2023 1:39:19 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke <span style="float: right;">PB</span>
<b>Data file:</b> C:\Chem32\1\Data\22Mar23\4.D	

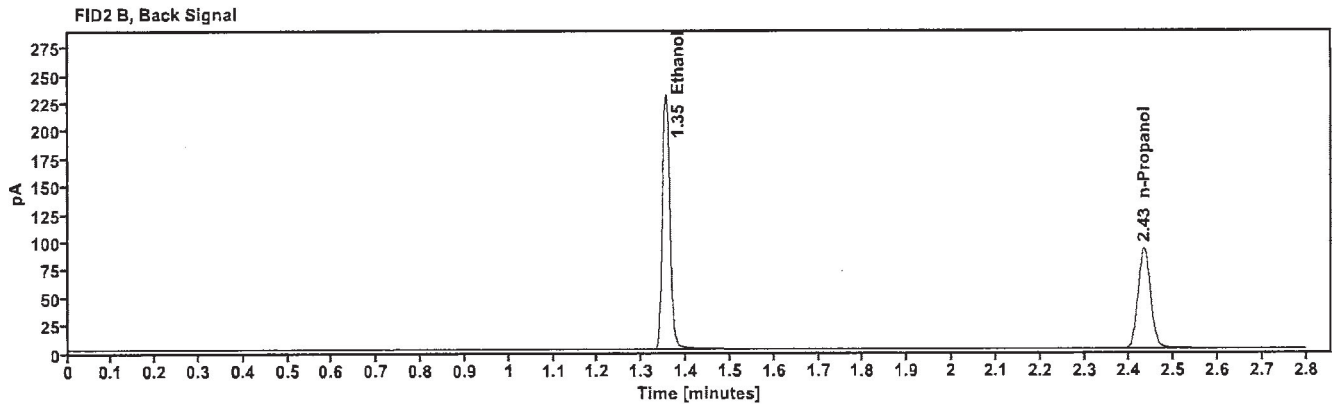
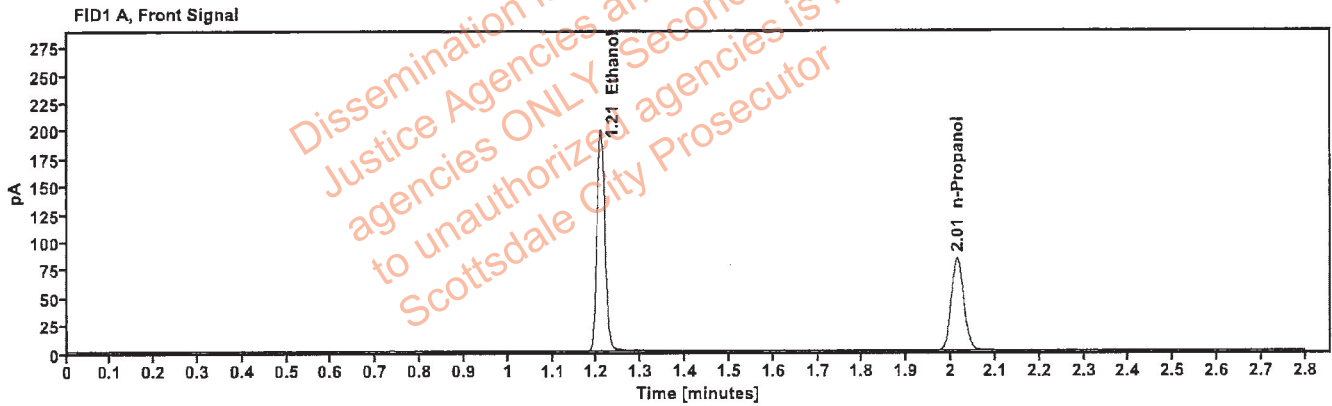


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	252.096
n-Propanol	2.014	166.109

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

Compound	Time (min)	Peak Area
Ethanol	1.355	275.591
n-Propanol	2.433	179.974

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	122022AQ	Vial:	5
Description:	Negative	LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 1:43:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\5.D	Analyst:	Brooke

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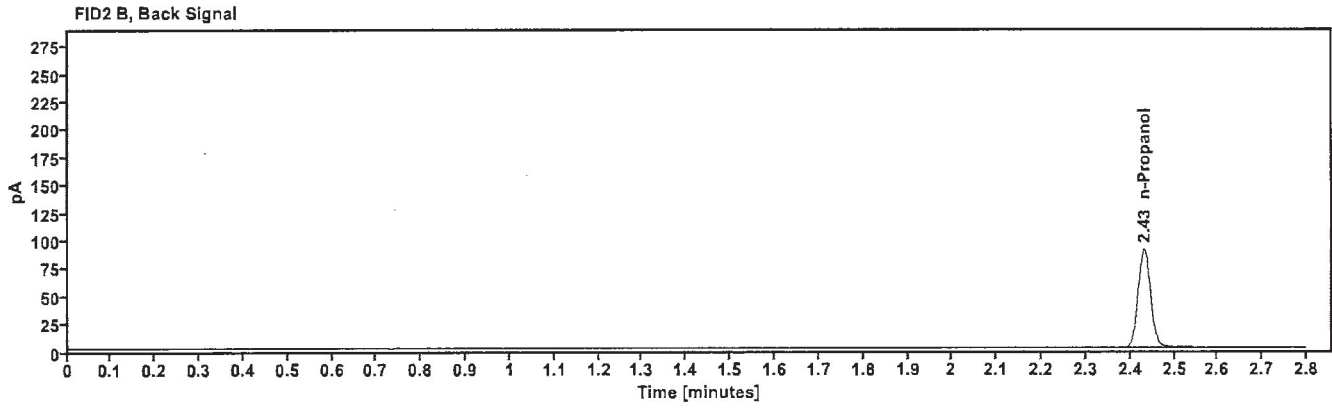
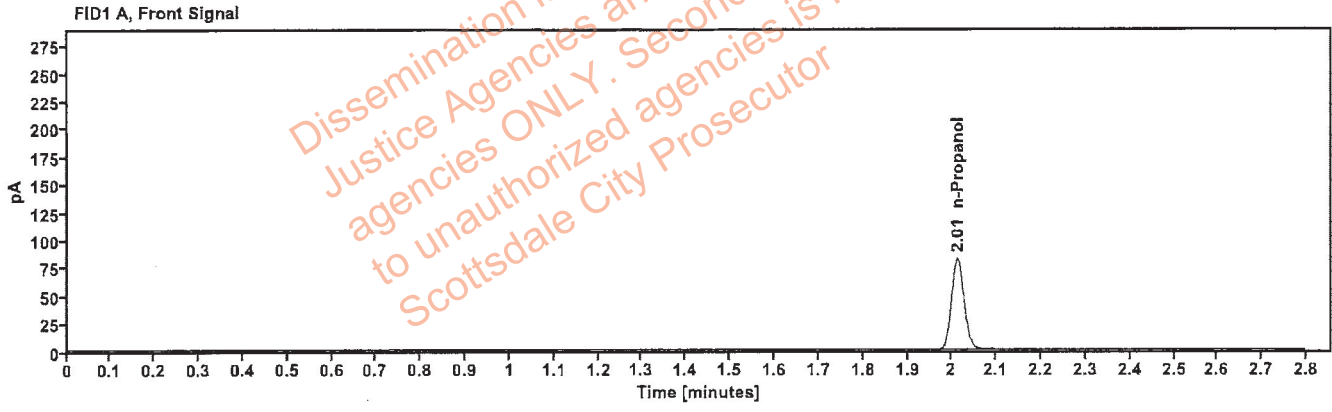


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	----	2.013	163.361

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

Compound	Time (min)	Peak Area
n-Propanol	2.431	176.970

# Scottsdale Police Department Crime Lab Volatiles Analysis

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<b>Sample:</b>	050721MIX	<b>Vial:</b>	6
<b>Description:</b>	Volatiles mix	<b>LIMS ID:</b>	
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	22Mar23
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	3/22/2023 1:47:19 PM
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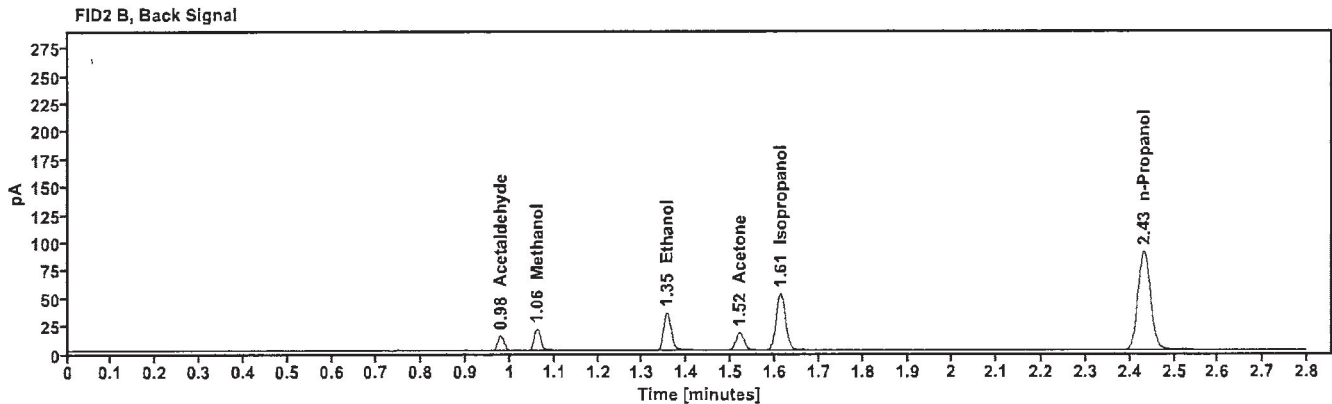
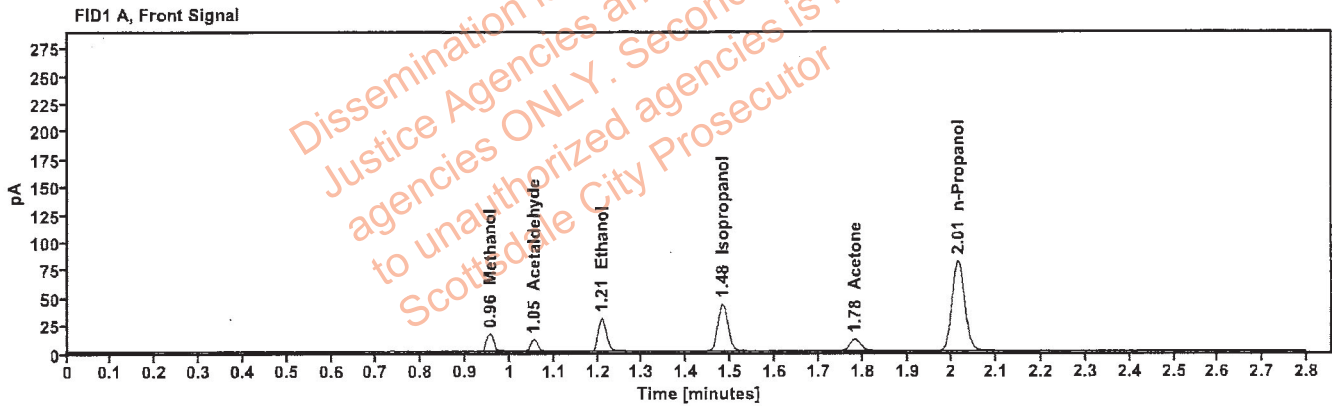


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.956	18.403
Acetaldehyde	-----	1.054	11.485
>Ethanol	0.0631	1.209	37.907
Isopropanol	-----	1.482	68.385
Acetone	-----	1.783	18.768
n-Propanol	-----	2.013	162.947

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.979	12.902
Methanol	1.060	20.199
Ethanol	1.355	41.174
Acetone	1.520	20.548
Isopropanol	1.613	75.475
n-Propanol	2.432	176.594



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 30012020-A	<b>Vial:</b> 7
<b>Description:</b> 0.400	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 22Mar23
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 3/22/2023 1:51:34 PM <span style="float: right;">JB</span>
<b>Data file:</b> C:\Chem32\1\Data\22Mar23\7.D	<b>Analyst:</b> Brooke

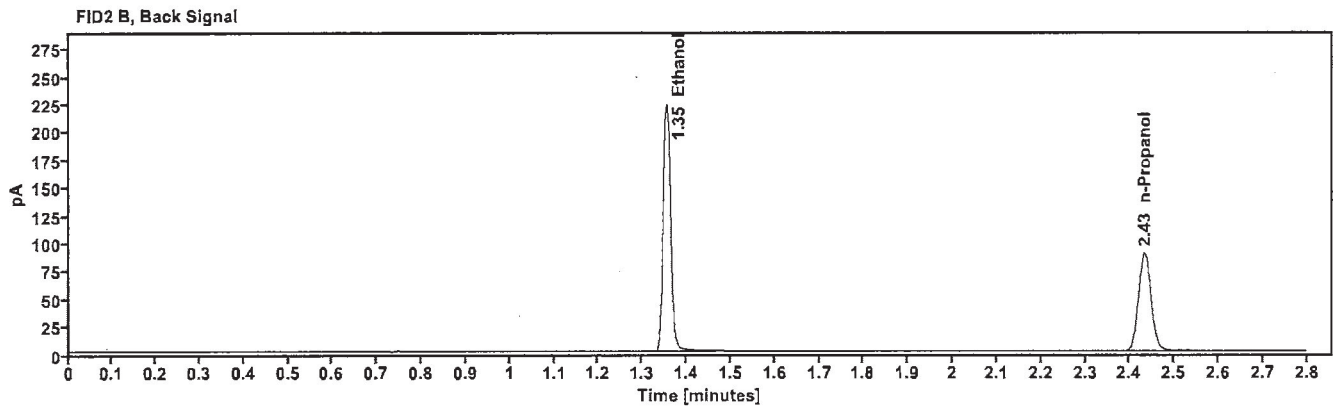
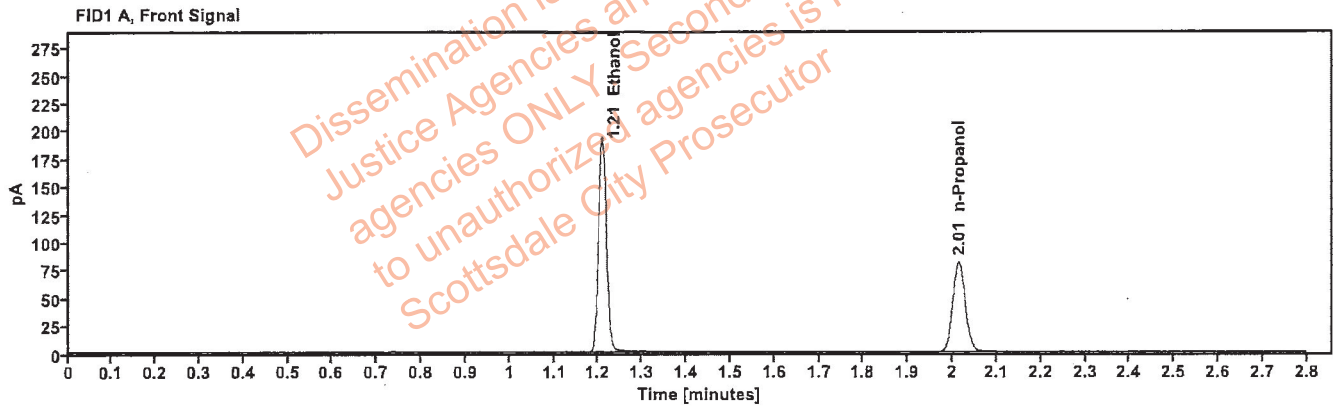


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3994	1.208	245.029
n-Propanol	-----	2.014	162.133

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

Compound	Time (min)	Peak Area
Ethanol	1.354	267.931
n-Propanol	2.433	175.709

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-B	Vial: 8
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 22Mar23
Instrument: US14173023 CN14160045	Injection date: 3/22/2023 1:55:35 PM <span style="float: right;">YRS</span>
Data file: C:\Chem32\1\Data\22Mar23\8.D	Analyst: Brooke

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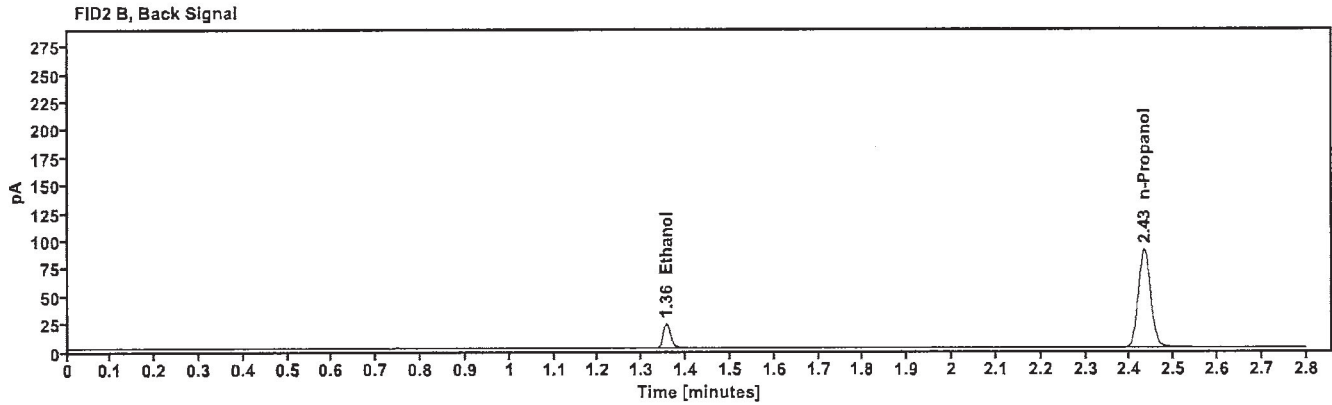
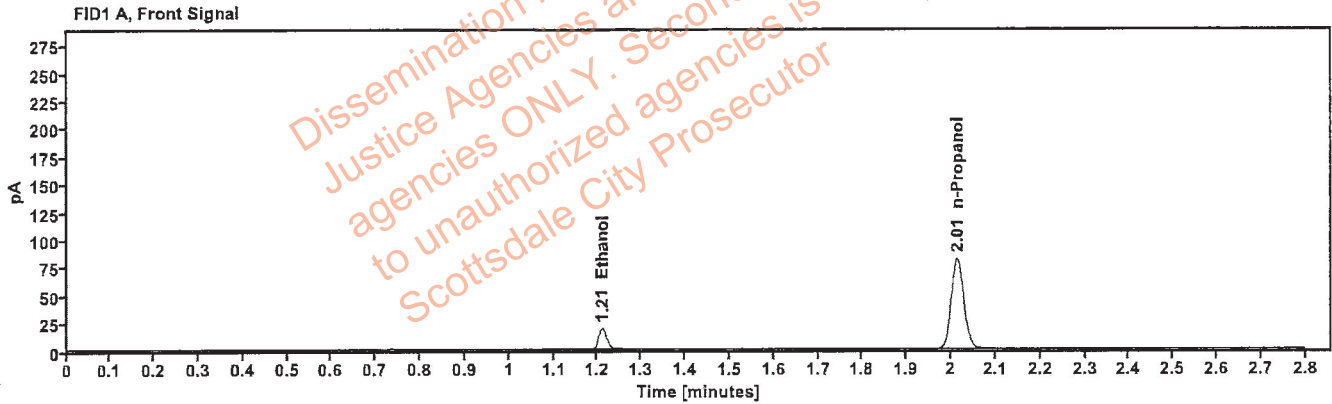


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0414	1.210	24.360
n-Propanol	---	2.014	162.381

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

Compound	Time (min)	Peak Area
Ethanol	1.356	26.298
n-Propanol	2.433	175.766

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 4110320133/10	<b>Vial:</b> 9
<b>Description:</b> 0.199	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 22Mar23 <span style="float: right;">yeg</span>
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 3/22/2023 1:59:35 PM
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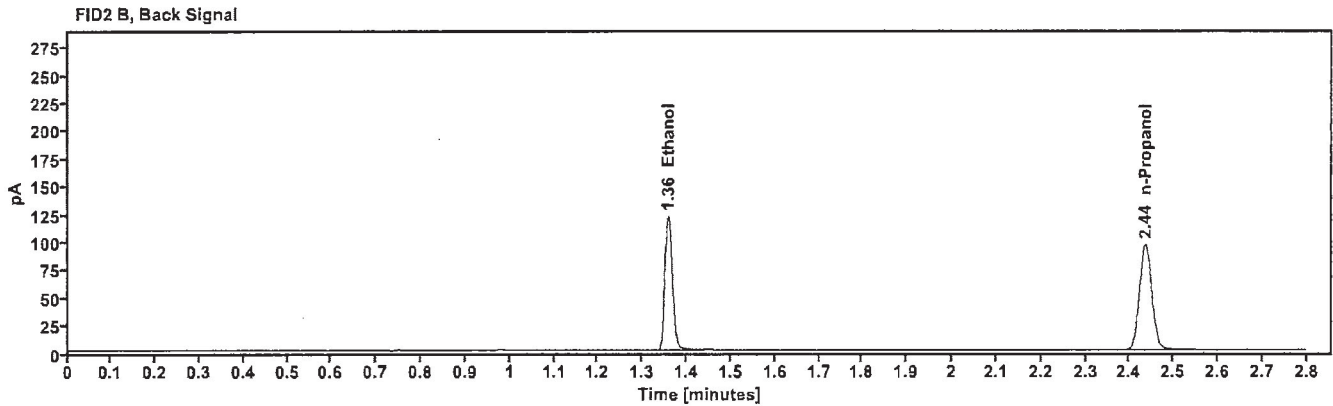
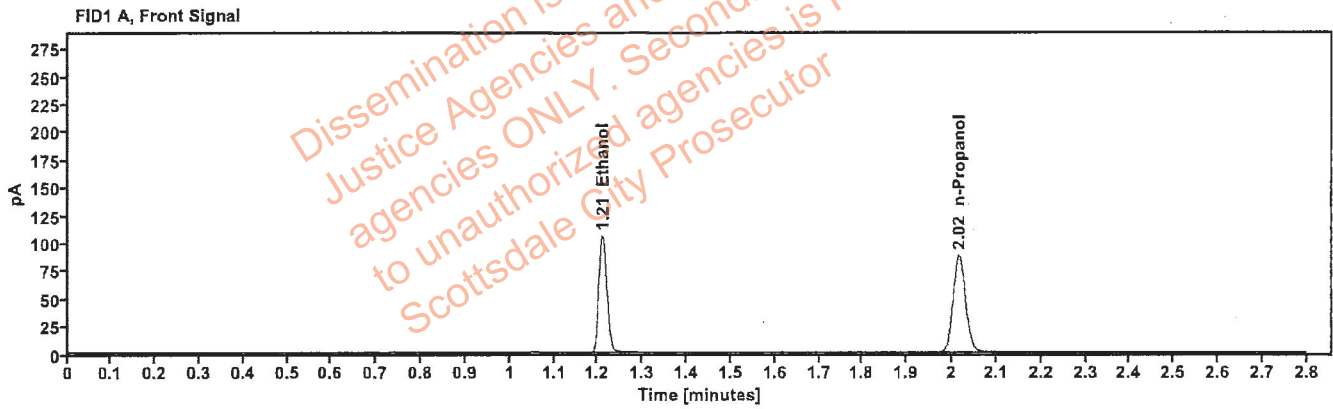


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2051	1.210	134.209
n-Propanol	---	2.016	173.708

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

Compound	Time (min)	Peak Area
Ethanol	1.358	145.872
n-Propanol	2.436	188.292

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	20012020-B	<b>Vial:</b>	20
<b>Description:</b>	0.080	<b>LIMS ID:</b>	
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	22Mar23
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	3/22/2023 2:44:04 PM
<b>Data file:</b>	C:\Chem32\1\Data\22Mar23\20.D	<b>Analyst:</b>	Brooke

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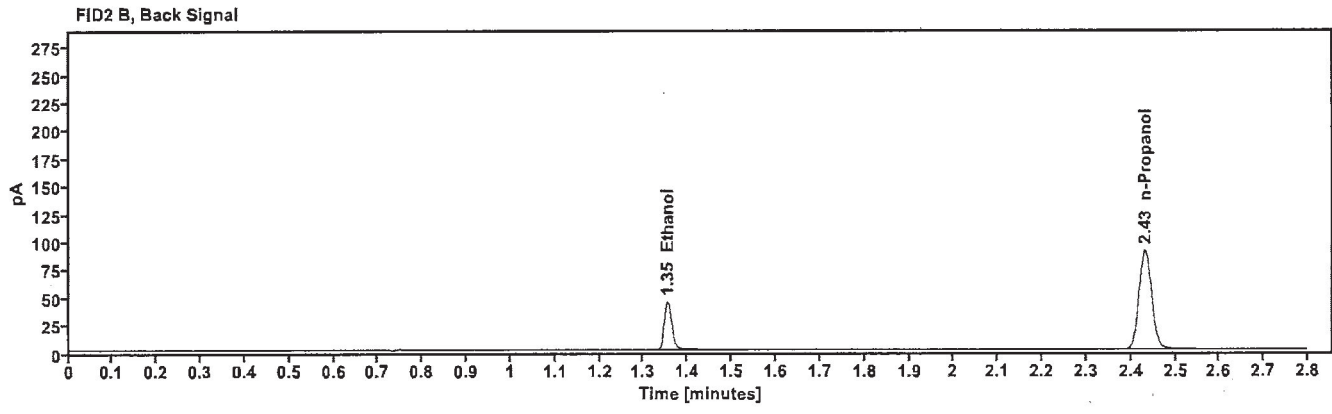
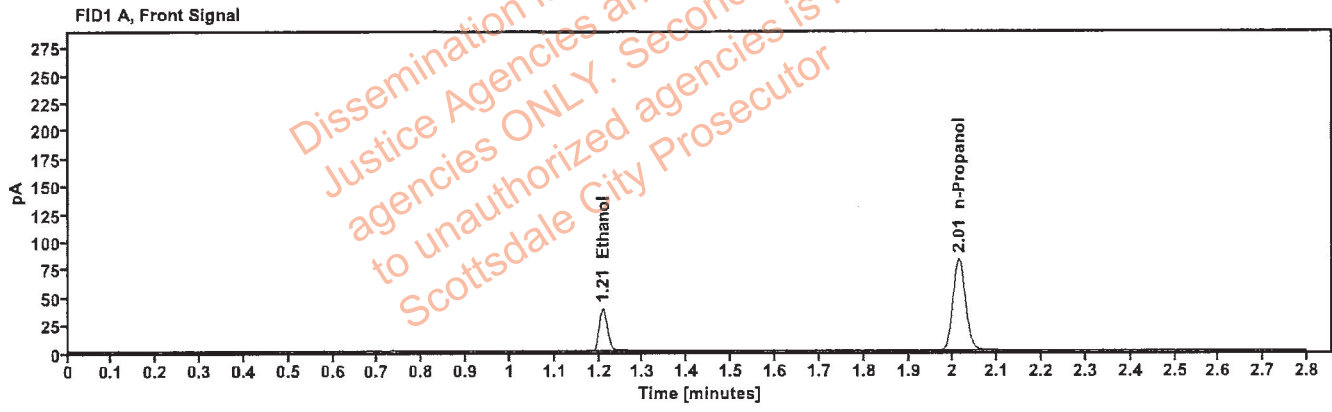


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0800	1.208	48.906
n-Propanol	----	2.013	164.795

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

Compound	Time (min)	Peak Area
Ethanol	1.354	53.155
n-Propanol	2.432	178.609

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	20012020-B	Vial:	31
Description:	0.080	LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:28:34 PM
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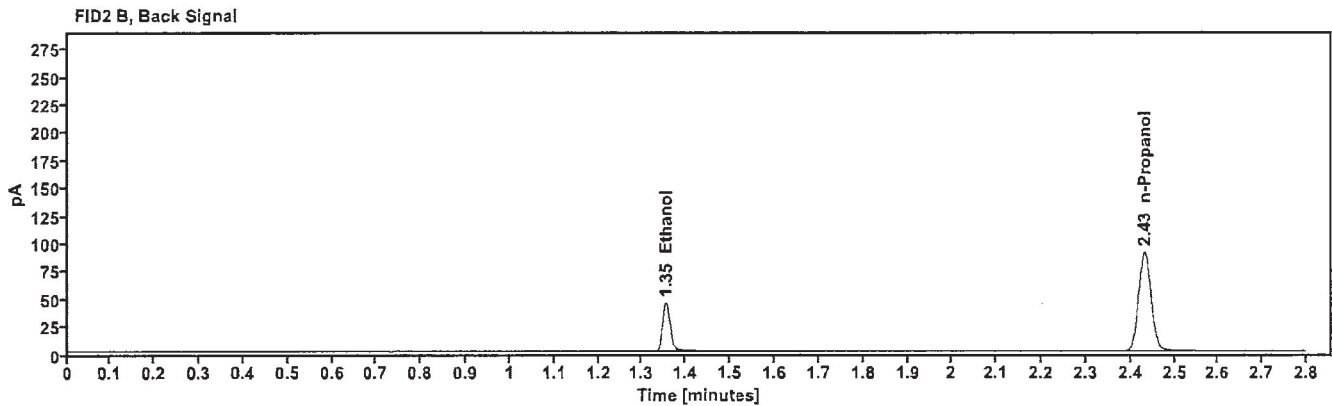
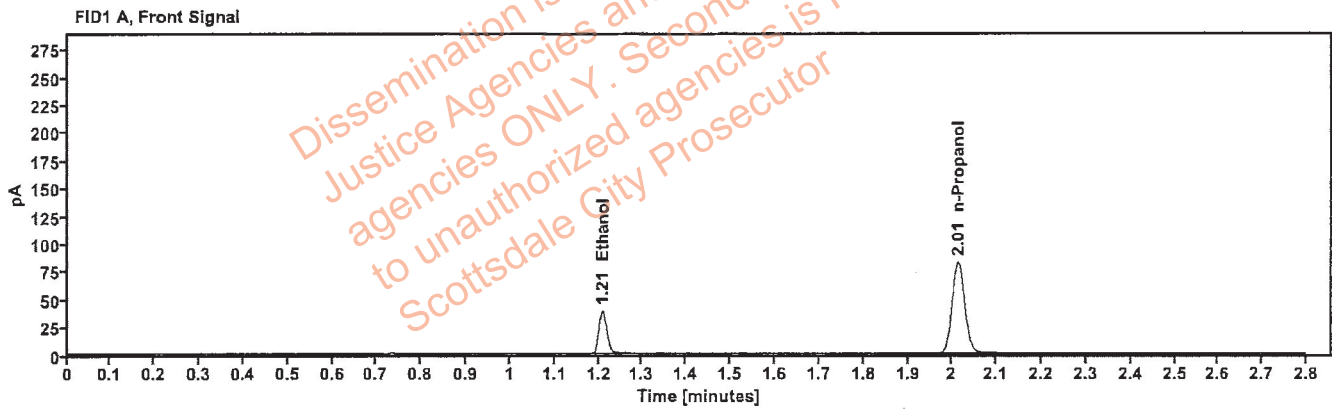


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0803	1.209	49.080
n-Propanol	-----	2.013	164.706

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

Compound	Time (min)	Peak Area
Ethanol	1.355	53.288
n-Propanol	2.432	178.356

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 30012020-A	<b>Vial:</b> 40
<b>Description:</b> 0.400	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 22Mar23 <span style="float: right;">PB</span>
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 3/22/2023 4:04:49 PM
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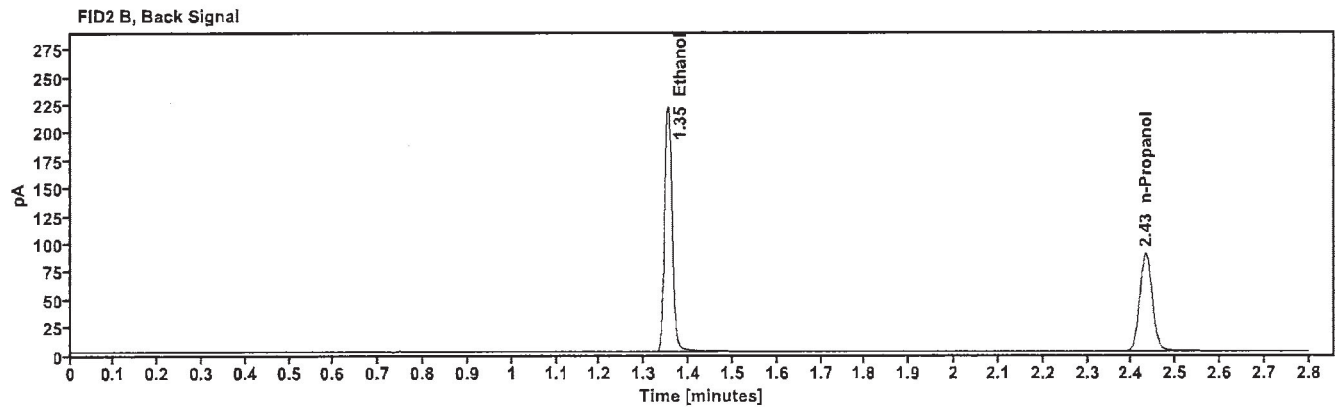
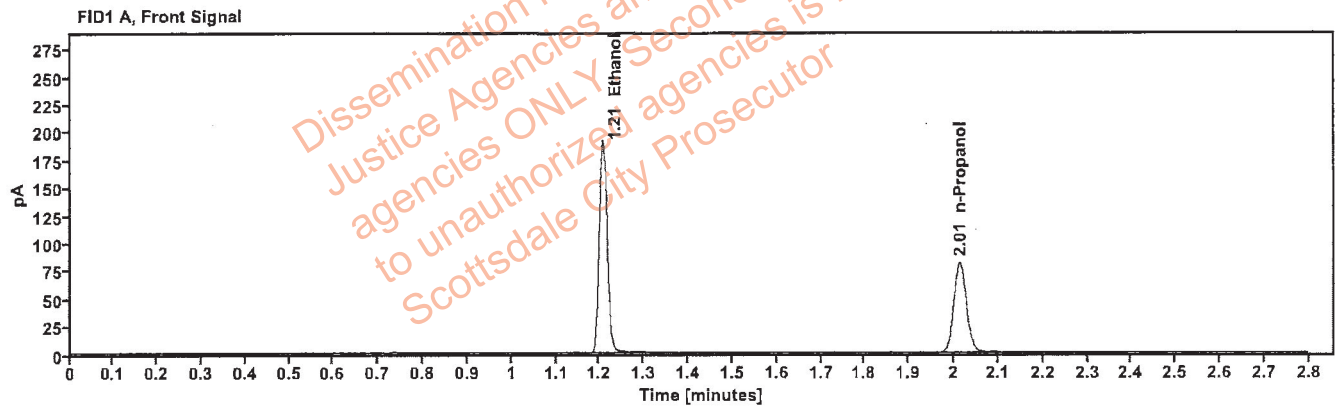


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3947	1.207	242.101
n-Propanol	---	2.013	162.093

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

Compound	Time (min)	Peak Area
Ethanol	1.353	265.847
n-Propanol	2.432	176.123

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	14082019-B	Vial:	41
Description:	0.040	LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 4:08:49 PM
Data file:	C:\Chem32\1\Data\22Mar23\41.D	Analyst:	Brooke

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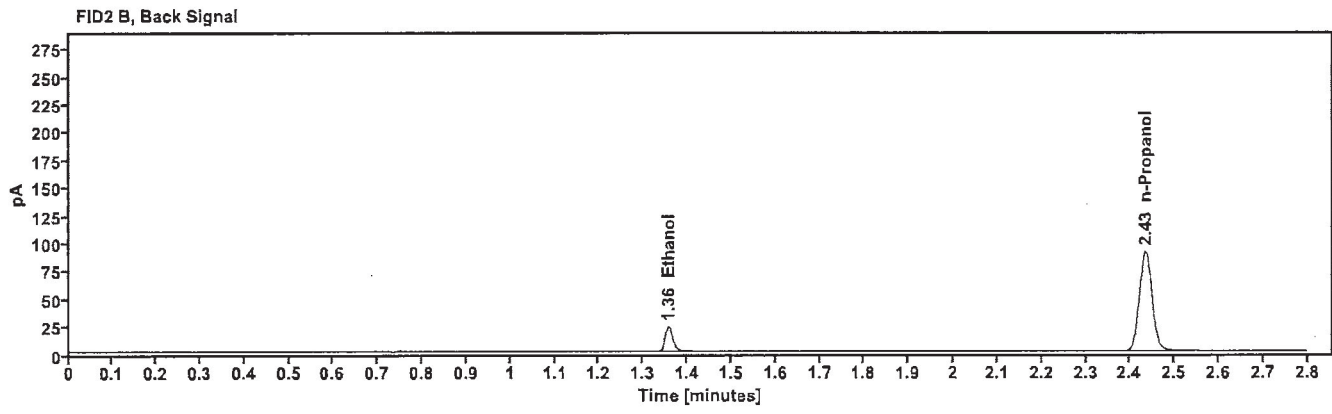
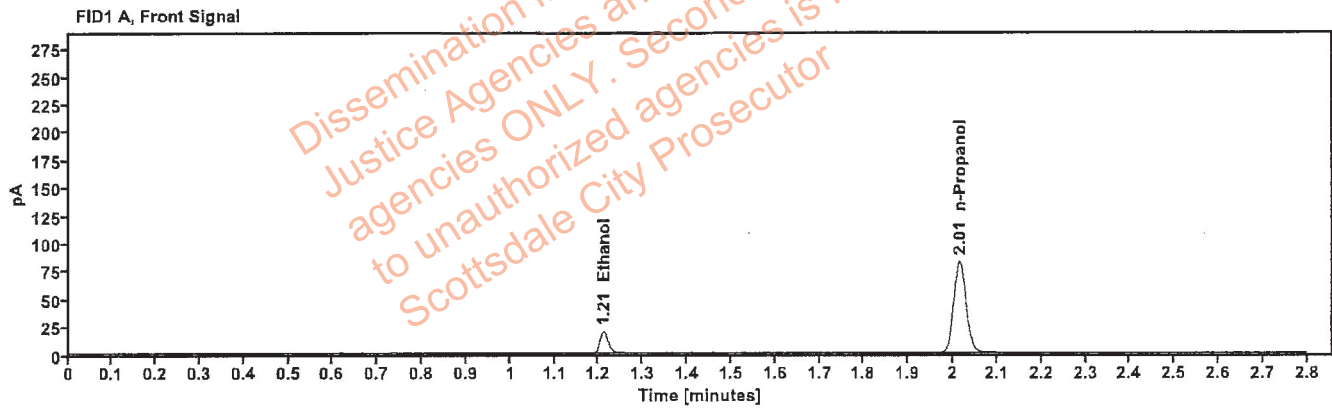


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0418	1.211	24.959
n-Propanol	-----	2.015	164.700

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

Compound	Time (min)	Peak Area
Ethanol	1.357	27.080
n-Propanol	2.434	178.755

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 4110320133/10	<b>Vial:</b> 42
<b>Description:</b> 0.199	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 22Mar23
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 3/22/2023 4:12:50 PM
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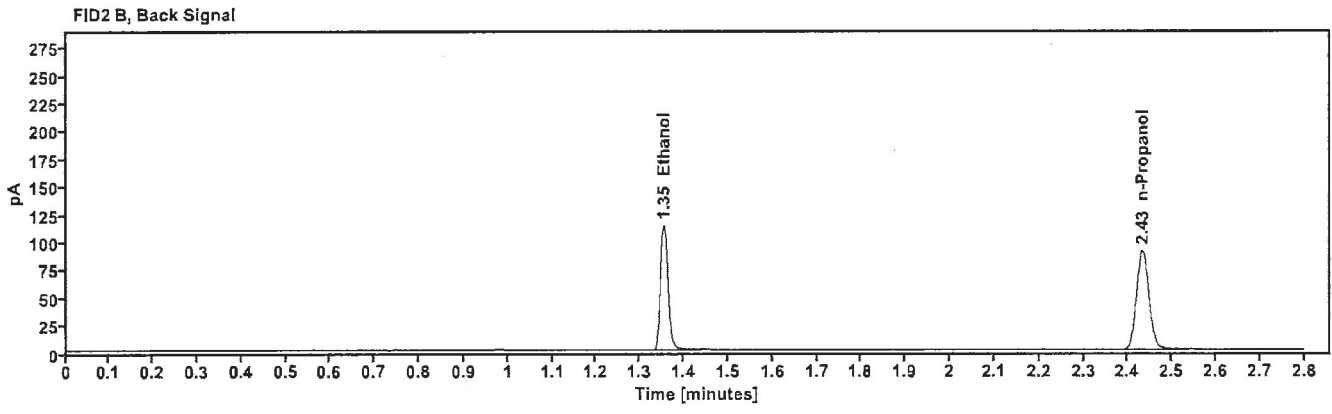
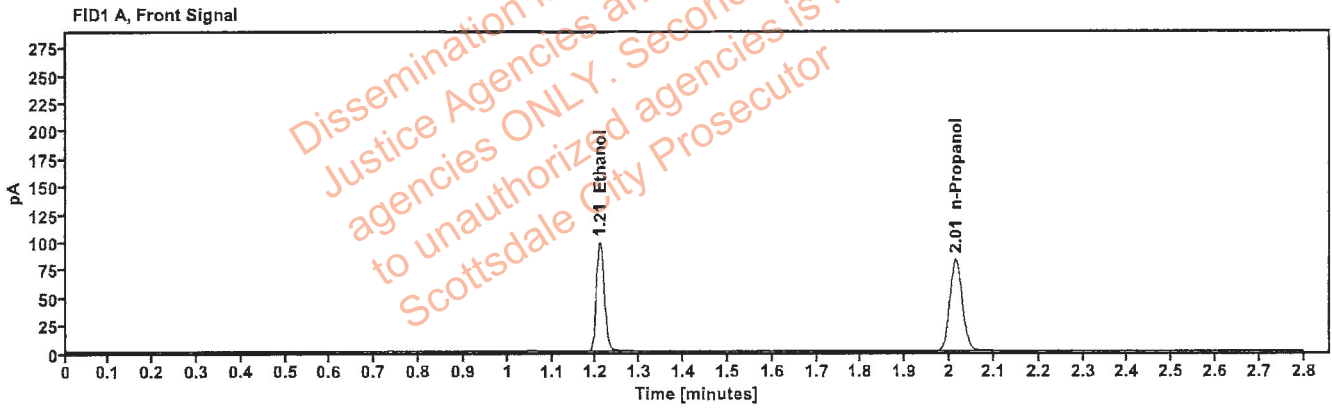


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2006	1.208	124.368
n-Propanol	-----	2.014	164.644

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

Compound	Time (min)	Peak Area
Ethanol	1.355	135.777
n-Propanol	2.433	178.770



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	011823WB	<b>Vial:</b>	43
<b>Description:</b>	Negative	<b>LIMS ID:</b>	
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	22Mar23 <span style="float: right;">PB</span>
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	3/22/2023 4:17:04 PM
<b>Data file:</b>	C:\Chem32\1\Data\22Mar23\43.D	<b>Analyst:</b>	Brooke

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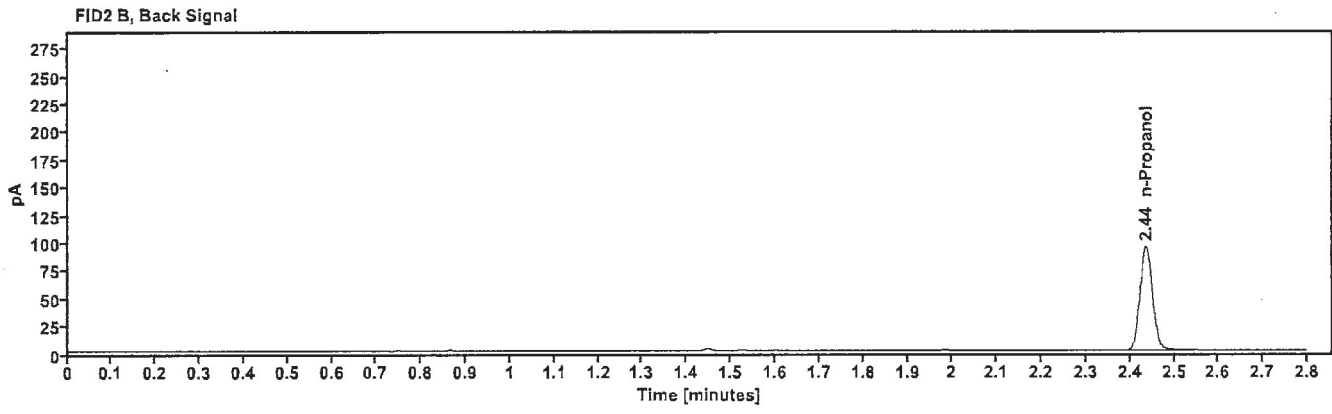
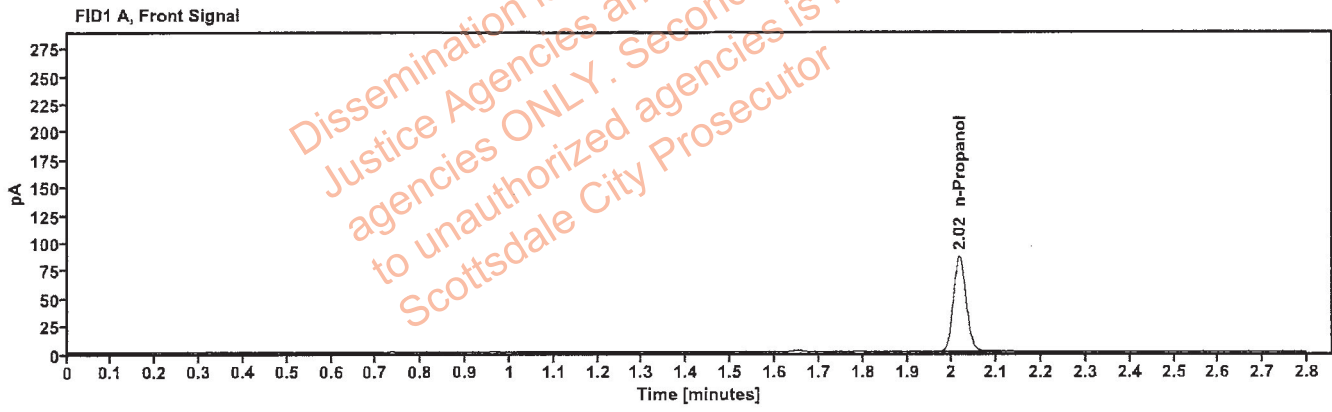


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	----	2.016	171.035

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

Compound	Time (min)	Peak Area
n-Propanol	2.436	185.950

# Sequence Summary

PB

Sequence name: 22Mar23      Instrument: US14173023 CN14160045      Analyst: Brooke

Vial	Sample	Description	Type	LIMS ID	Method
1	FN10051909	0.020 calibrator	Calibration		ethanol quant.M
2	FN05311902	0.100 calibrator	Calibration		ethanol quant.M
3	FN02052101	0.200 calibrator	Calibration		ethanol quant.M
4	FN03052102	0.400 calibrator	Calibration		ethanol quant.M
5	122022AQ	Negative	Control		ethanol quant.M
6	050721MIX	Volatiles mix	Control		ethanol quant.M
7	30012020-A	0.400	Control		ethanol quant.M
8	14082019-B	0.040	Control		ethanol quant.M
9	4110320133/10	0.199	Control		ethanol quant.M
10	2304864-2		Sample		ethanol quant.M
11	2304864-2		Sample		ethanol quant.M
12	2301521-2		Sample		ethanol quant.M
13	2301521-2		Sample		ethanol quant.M
14	2301727-2		Sample		ethanol quant.M
15	2301727-2		Sample		ethanol quant.M
16	2304997-2		Sample		ethanol quant.M
17	2304997-2		Sample		ethanol quant.M
18	1434714		Sample		ethanol quant.M
19	1434714		Sample		ethanol quant.M
20	20012020-B	0.080	Control		ethanol quant.M
21	2305193-2		Sample		ethanol quant.M
22	2305193-2		Sample		ethanol quant.M
23	2305110-2		Sample		ethanol quant.M
24	2305110-2		Sample		ethanol quant.M
25	2305292-1		Sample		ethanol quant.M
26	2305292-1		Sample		ethanol quant.M
27	2305300-2		Sample		ethanol quant.M
28	2305300-2		Sample		ethanol quant.M
29	2305368-1		Sample		ethanol quant.M
30	2305368-1		Sample		ethanol quant.M
31	20012020-B	0.080	Control		ethanol quant.M
32	424-01H.E.		Sample		ethanol quant.M
33	424-01H.E.		Sample		ethanol quant.M
34	385-01S.M.		Sample		ethanol quant.M
35	385-01S.M.		Sample		ethanol quant.M
36	176-01D.J.		Sample		ethanol quant.M
37	176-01D.J.		Sample		ethanol quant.M
38	2305359-3		Sample		ethanol quant.M
39	2305359-3		Sample		ethanol quant.M
40	30012020-A	0.400	Control		ethanol quant.M
41	14082019-B	0.040	Control		ethanol quant.M
42	4110320133/10	0.199	Control		ethanol quant.M
43	011823WB	Negative	Control		ethanol quant.M

# Scottsdale Police Department Crime Laboratory Summary of Cases

SEQUENCE NAME: 22Mar23

ANALYST: Brooke

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1257	0.1255	0.12560	0.08	0.00010
12 13	0.0349	0.0352	0.03505	0.43	0.00015
14 15	0.0880	0.0889	0.08845	0.51	0.00045
16 17	0.0000	0.0000	0.00000	0.00	0.00000
18 19	0.1190	0.1185	0.11875	0.21	0.00025
21 22	0.1657	0.1629	0.16430	0.85	0.00140
23 24	0.1953	0.1954	0.19535	0.03	0.00005
25 26	0.2297	0.2259	0.22780	0.83	0.00190
27 28	0.1630	0.1693	0.16615	1.90	0.00315
29 30	0.2372	0.2371	0.23715	0.02	0.00005
32 33	0.1628	0.1615	0.16215	0.40	0.00065
34 35	0.1882	0.1864	0.18730	0.48	0.00090
36 37	0.2481	0.2521	0.25010	0.80	0.00200
38 39	0.1042	0.1051	0.10465	0.43	0.00045

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

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## Scottsdale Forensic Lab Blood Alcohol Pipetting Log

ANALYST: Brooke

TB

SEQUENCE: 22Mar23

Instrument Position	Headspace Vial 1	Headspace Vial 2	Blood Tube	Barcode Match
Vials 10 and 11	2304864-2	2304864-2	2304864-2	Yes
Vials 12 and 13	2301521-2	2301521-2	2301521-2	Yes
Vials 14 and 15	2301727-2	2301727-2	2301727-2	Yes
Vials 16 and 17	2304997-2	2304997-2	2304997-2	Yes
Vials 18 and 19	1434714	1434714	1434714	Yes
Vials 21 and 22	2305193-2	2305193-2	2305193-2	Yes
Vials 23 and 24	2305110-2	2305110-2	2305110-2	Yes
Vials 25 and 26	2305292-1	2305292-1	2305292-1	Yes
Vials 27 and 28	2305300-2	2305300-2	2305300-2	Yes
Vials 29 and 30	2305368-1	2305368-1	2305368-1	Yes
Vials 32 and 33	424-01H.E.	424-01H.E.	424-01H.E.	Yes
Vials 34 and 35	385-01S.M.	385-01S.M.	385-01S.M.	Yes
Vials 36 and 37	176-01D.J.	176-01D.J.	176-01D.J.	Yes
Vials 38 and 39	2305359-3	2305359-3	2305359-3	Yes

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2304864-2	Vial:	10
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:03:35 PM
Data file:	C:\Chem32\1\Data\22Mar23\10.D	Analyst:	Brooke

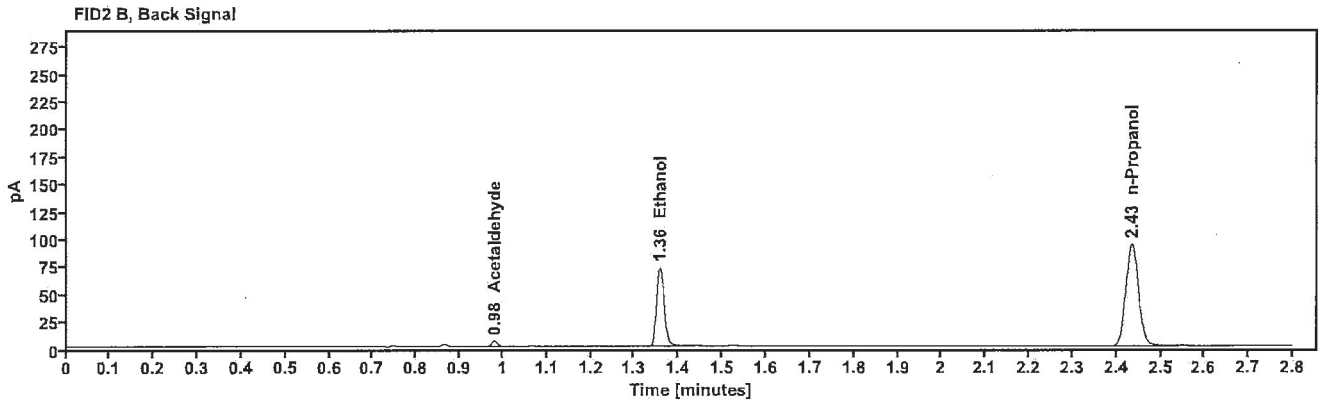
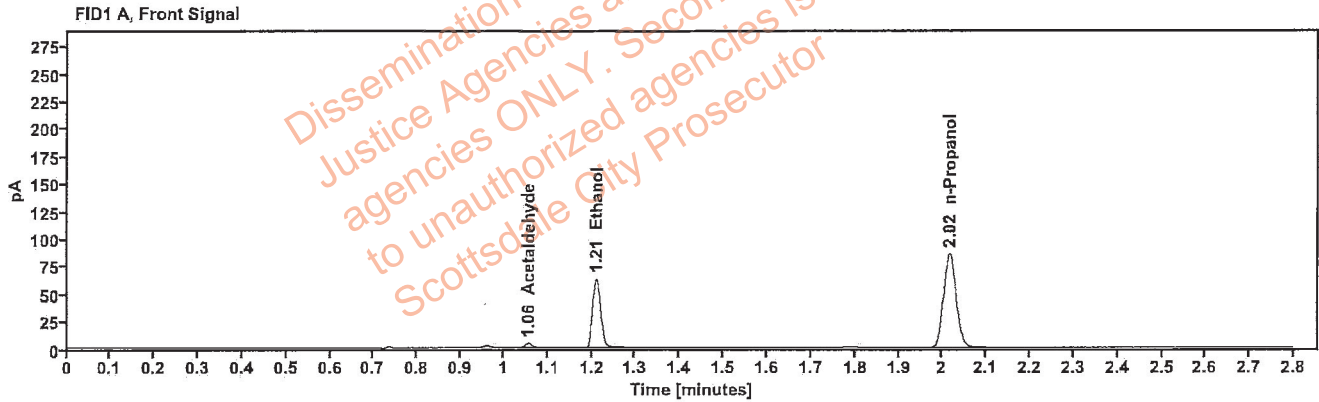


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	3.936
>Ethanol	0.1257	1.210	80.025
n-Propanol	-----	2.015	170.034

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	4.416
Ethanol	1.357	86.892
n-Propanol	2.435	184.071

██████████: Brooke, Phillip - (24-Mar-2023)

Case: ██████████ User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2304864-2	Vial:	11
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:07:35 PM
Data file:	C:\Chem32\1\Data\22Mar23\11.D	Analyst:	Brooke

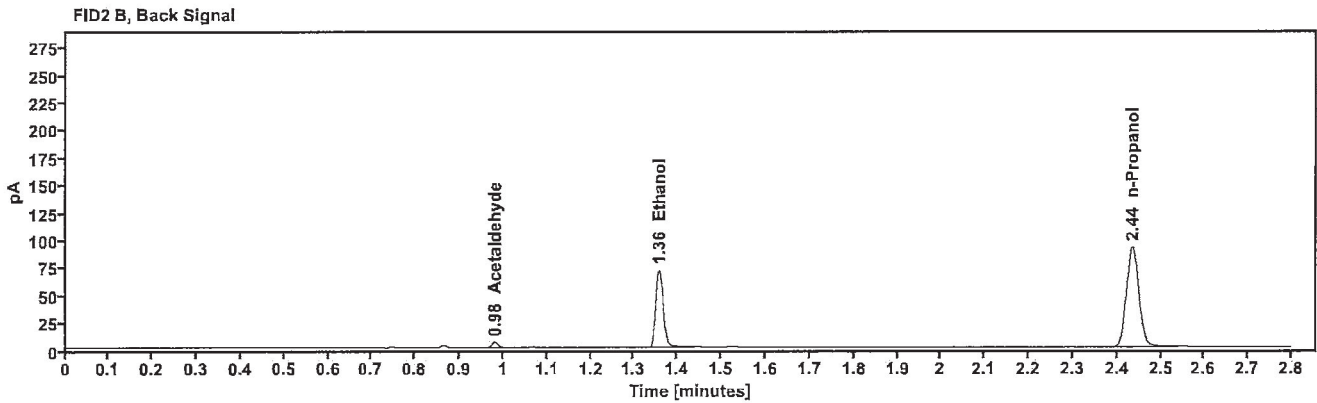
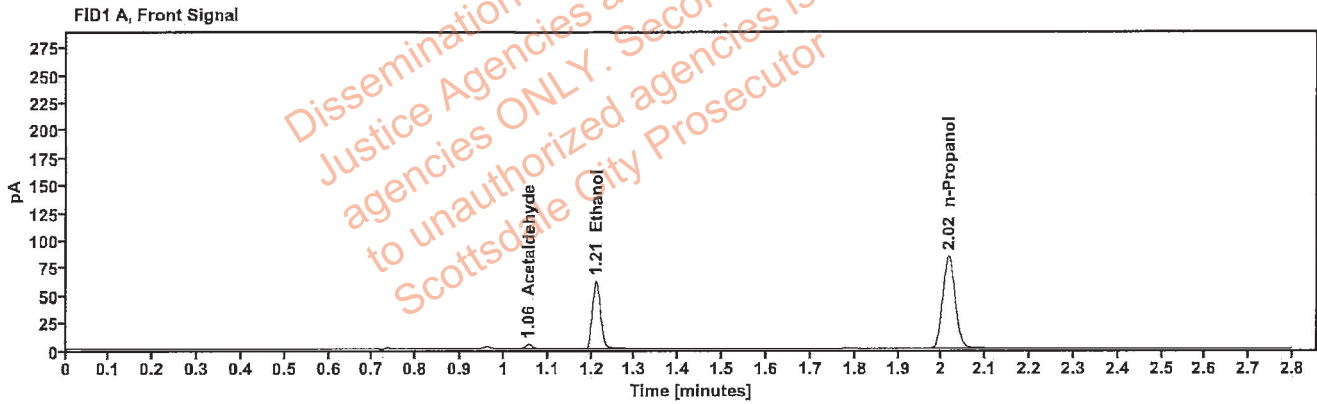


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	---	1.056	4.004
>Ethanol	0.1255	1.210	78.715
n-Propanol	---	2.015	167.471

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	4.497
Ethanol	1.358	85.341
n-Propanol	2.435	181.164

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2301521-2	Vial:	12
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:11:33 PM
Data file:	C:\Chem32\1\Data\22Mar23\12.D	Analyst:	Brooke

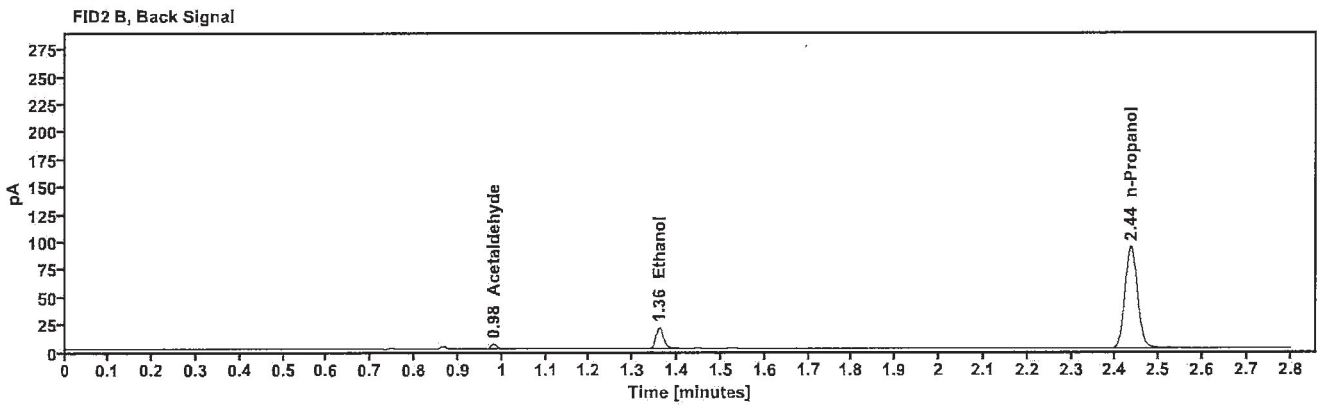
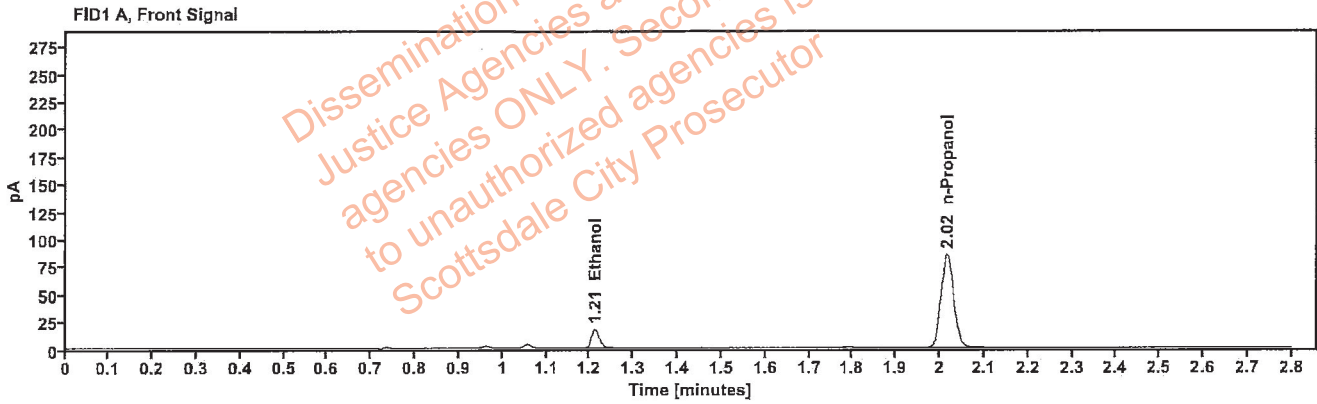


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0349	1.212	21.278
n-Propanol	-----	2.016	169.709

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	3.809
Ethanol	1.359	23.405
n-Propanol	2.436	183.829

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2301521-2	Vial:	13
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:15:50 PM
Data file:	C:\Chem32\1\Data\22Mar23\13.D	Analyst:	Brooke

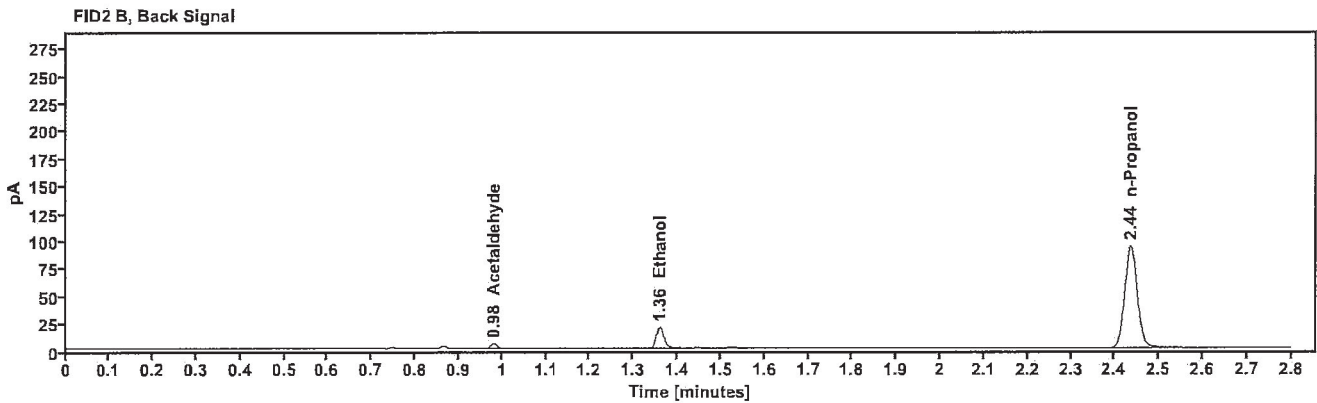
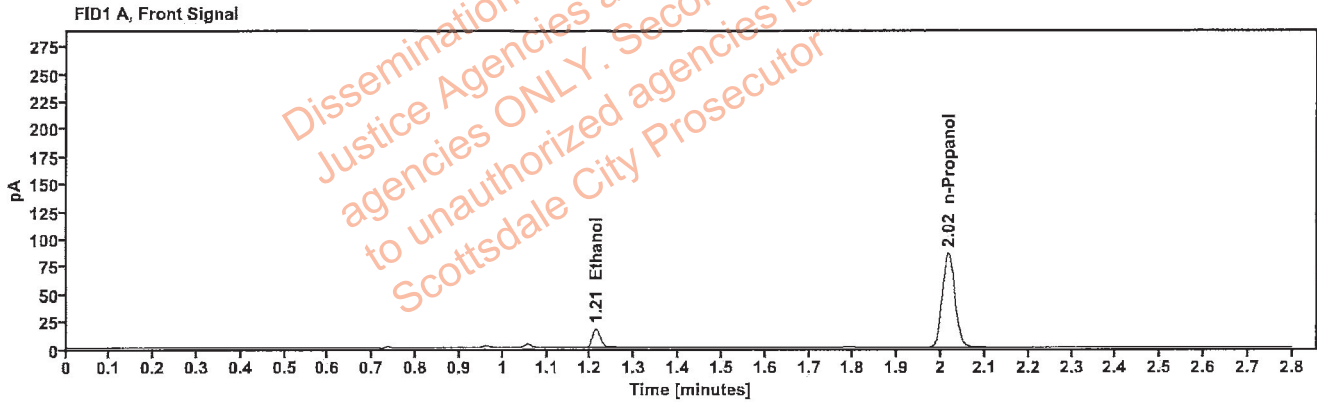


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0352	1.212	21.619
n-Propanol	----	2.016	170.967

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	3.783
Ethanol	1.359	23.683
n-Propanol	2.436	185.160



Brooke, Phillip - (24-Mar-2023)

Case: User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2301727-2	Vial:	14
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:19:50 PM
Data file:	C:\Chem32\1\Data\22Mar23\14.D	Analyst:	Brooke

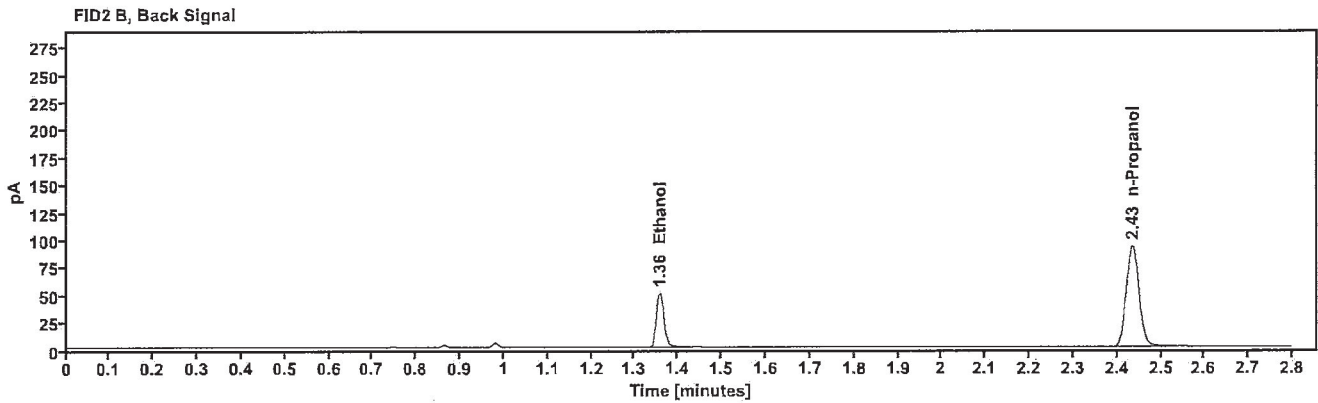
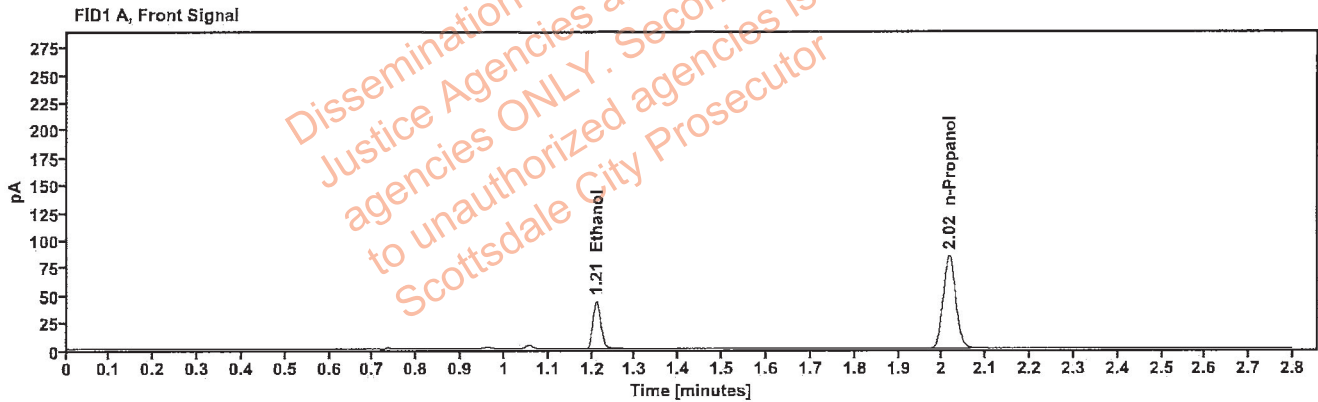


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0880	1.210	55.114
n-Propanol	-----	2.015	168.508

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

Compound	Time (min)	Peak Area
Ethanol	1.357	59.718
n-Propanol	2.435	182.503

██████████: Brooke, Phillip - (24-Mar-2023)

Case: ██████████ User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2301727-2	Vial:	15
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:23:49 PM
Data file:	C:\Chem32\1\Data\22Mar23\15.D	Analyst:	Brooke

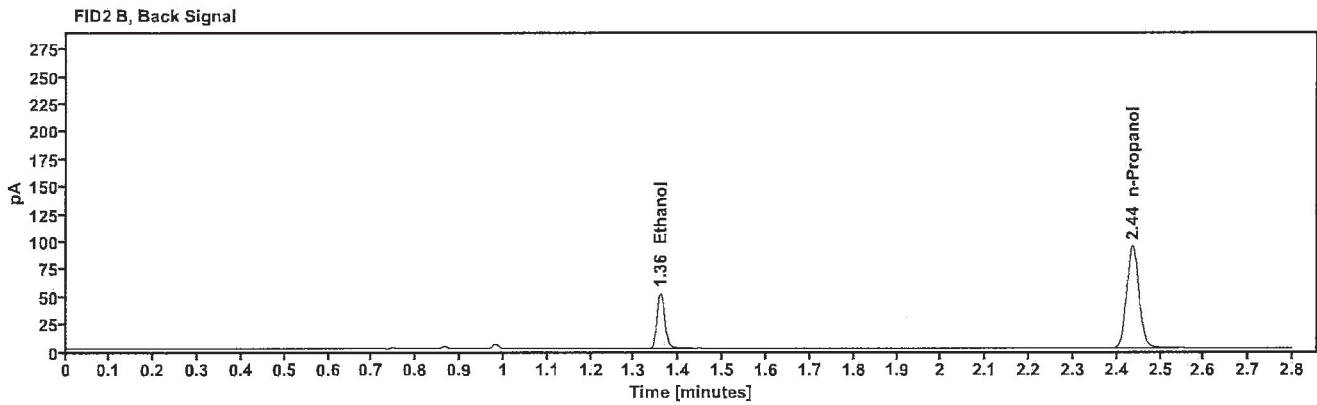
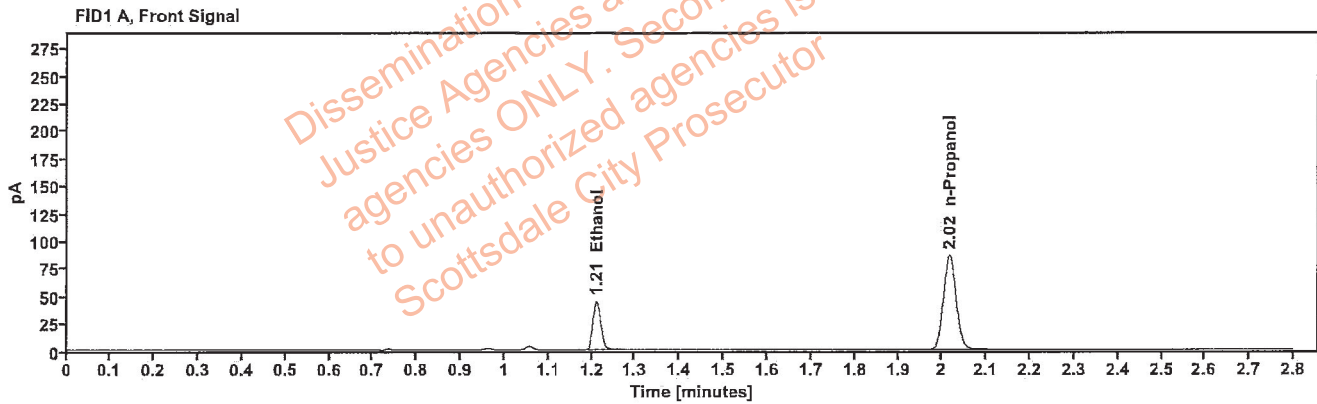


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0889	1.211	56.567
n-Propanol	-----	2.016	171.095

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

Compound	Time (min)	Peak Area
Ethanol	1.358	61.275
n-Propanol	2.436	185.220

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2304997-2	Vial:	16
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:27:49 PM
Data file:	C:\Chem32\1\Data\22Mar23\16.D	Analyst:	Brooke

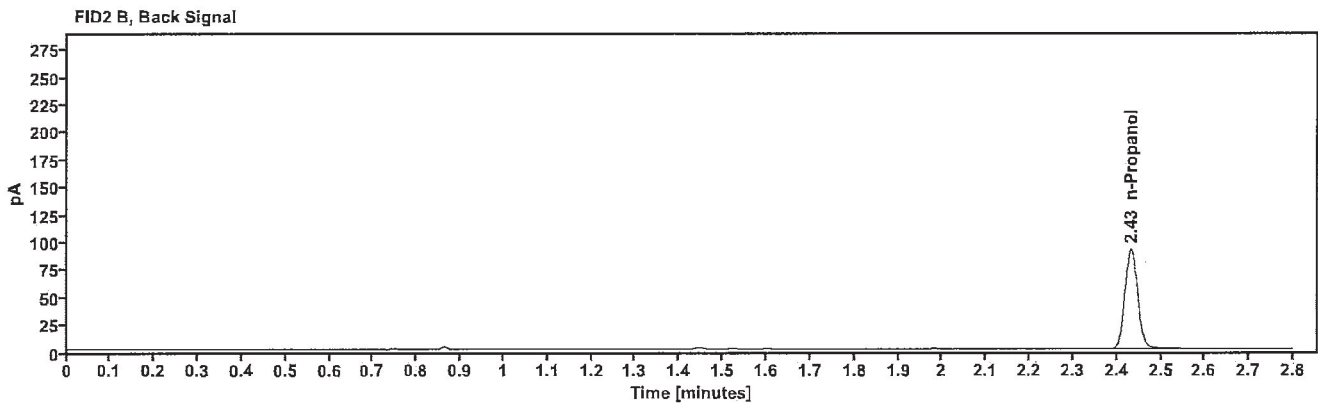
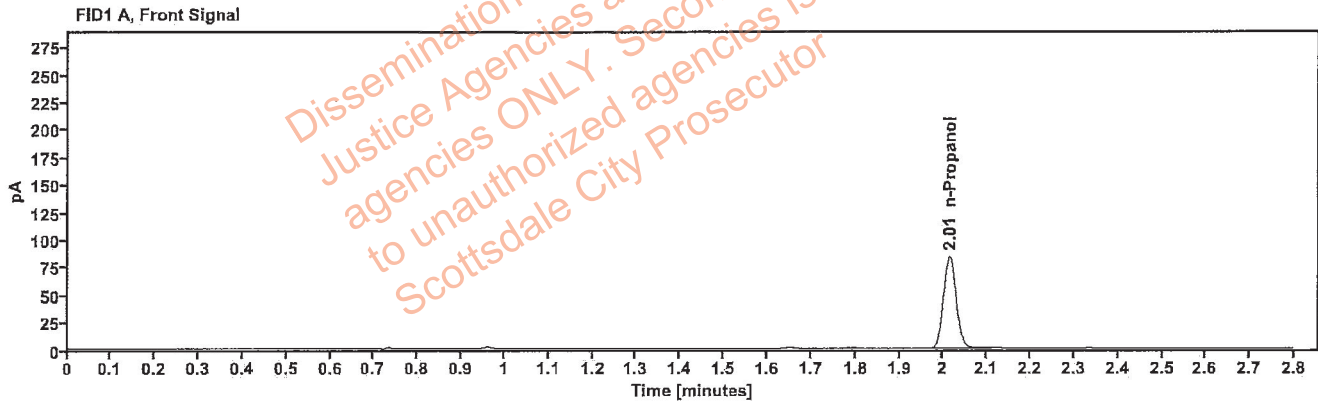


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	---	2.014	166.632

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

Compound	Time (min)	Peak Area
n-Propanol	2.432	180.795

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2304997-2	Vial:	17
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:31:49 PM
Data file:	C:\Chem32\1\Data\22Mar23\17.D	Analyst:	Brooke

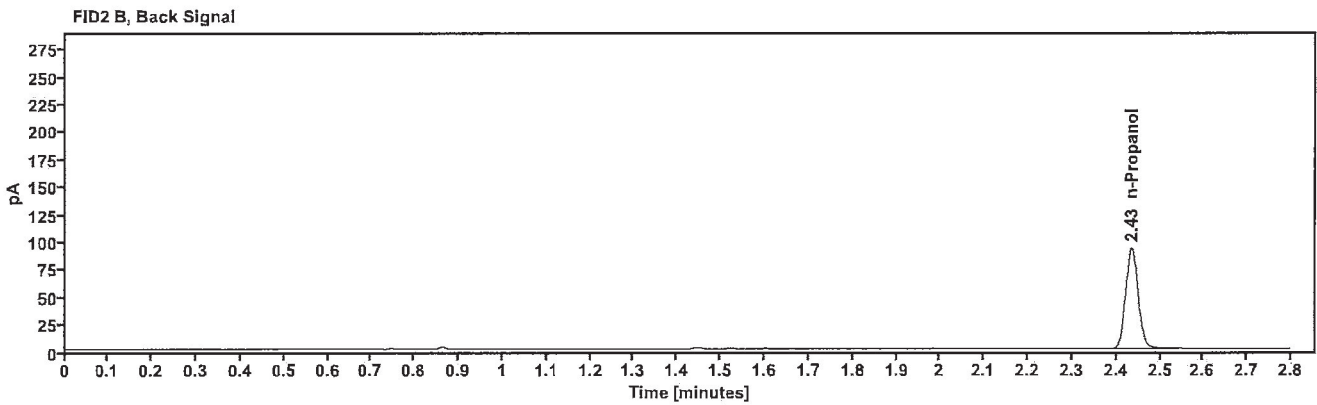
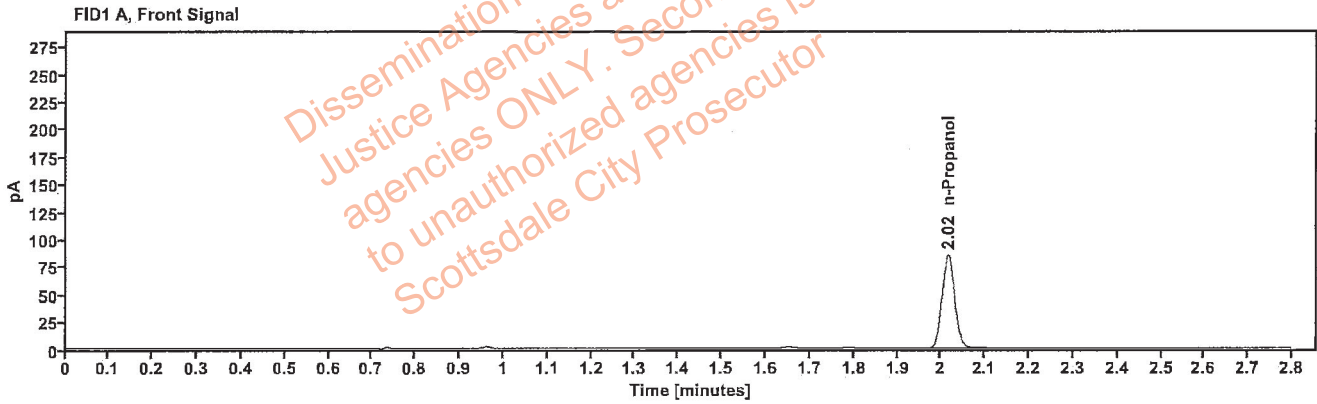


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	---	2.015	168.902

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

Compound	Time (min)	Peak Area
n-Propanol	2.435	183.154

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1434714	Vial:	18
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:35:49 PM
Data file:	C:\Chem32\1\Data\22Mar23\18.D	Analyst:	Brooke

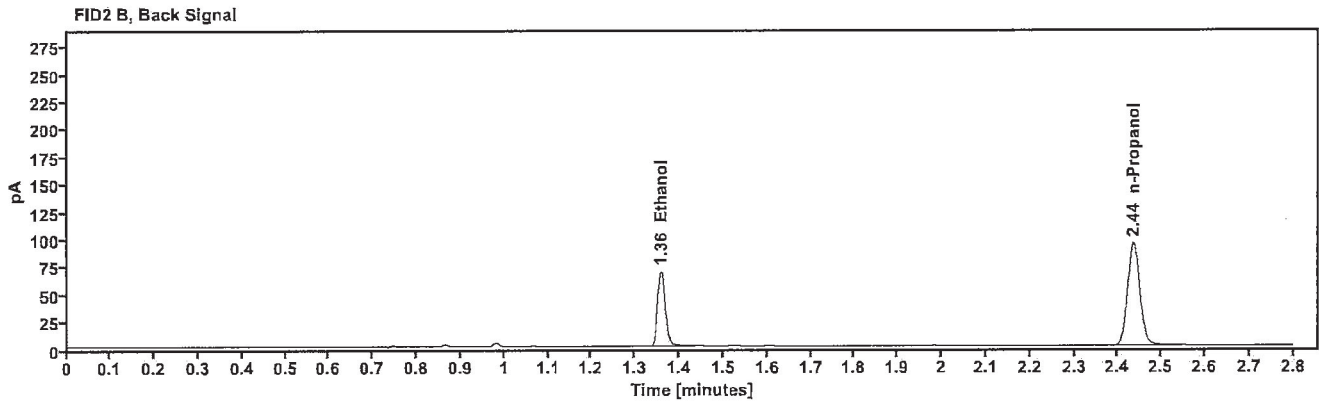
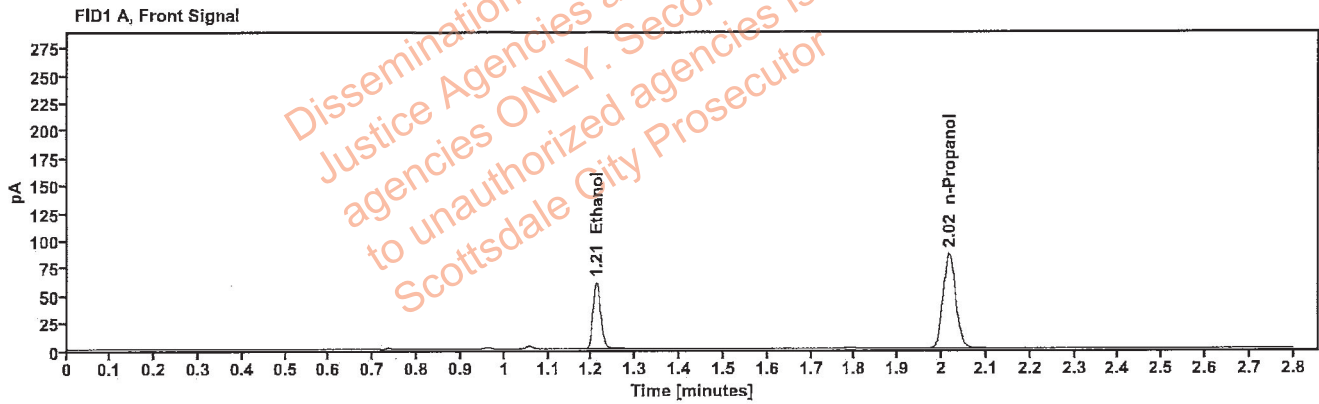


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1190	1.211	76.406
n-Propanol	-----	2.016	171.619

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

Compound	Time (min)	Peak Area
Ethanol	1.358	82.870
n-Propanol	2.436	186.055

██████████: Brooke, Phillip - (24-Mar-2023)

Case: ██████████ User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1434714	Vial:	19
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:40:04 PM
Data file:	C:\Chem32\1\Data\22Mar23\19.D	Analyst:	Brooke

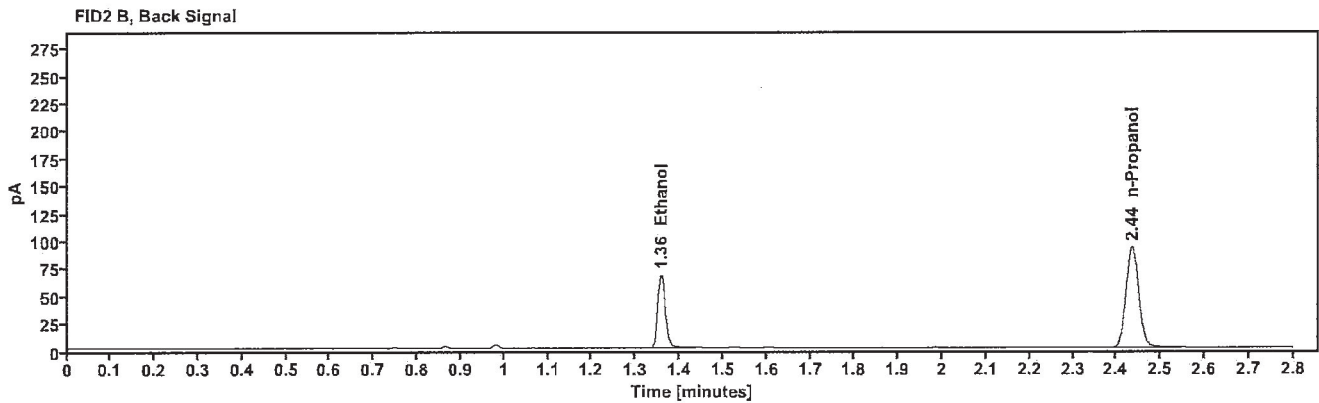
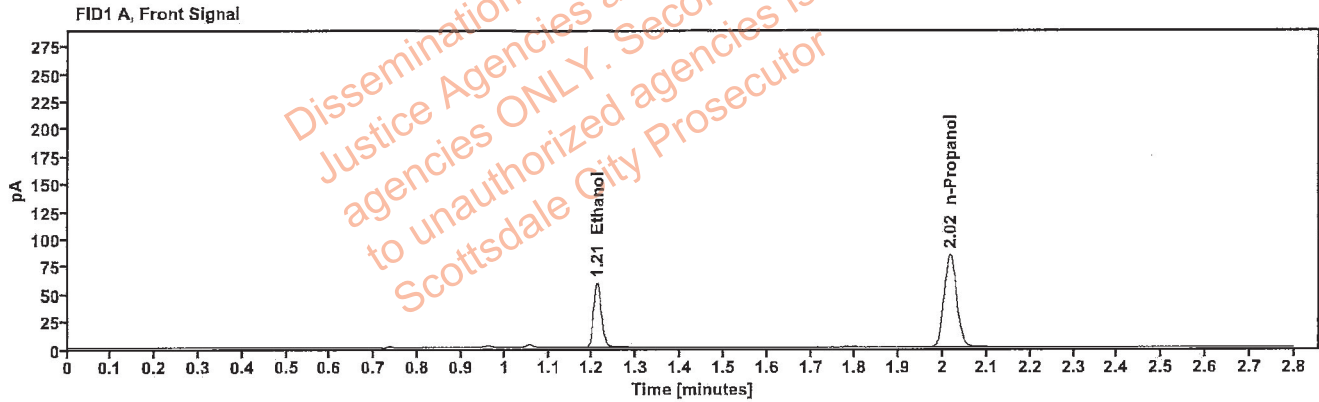


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1185	1.210	74.633
n-Propanol	-----	2.016	168.366

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

Compound	Time (min)	Peak Area
Ethanol	1.358	80.849
n-Propanol	2.435	182.499

: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305193-2	Vial:	21
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:48:04 PM
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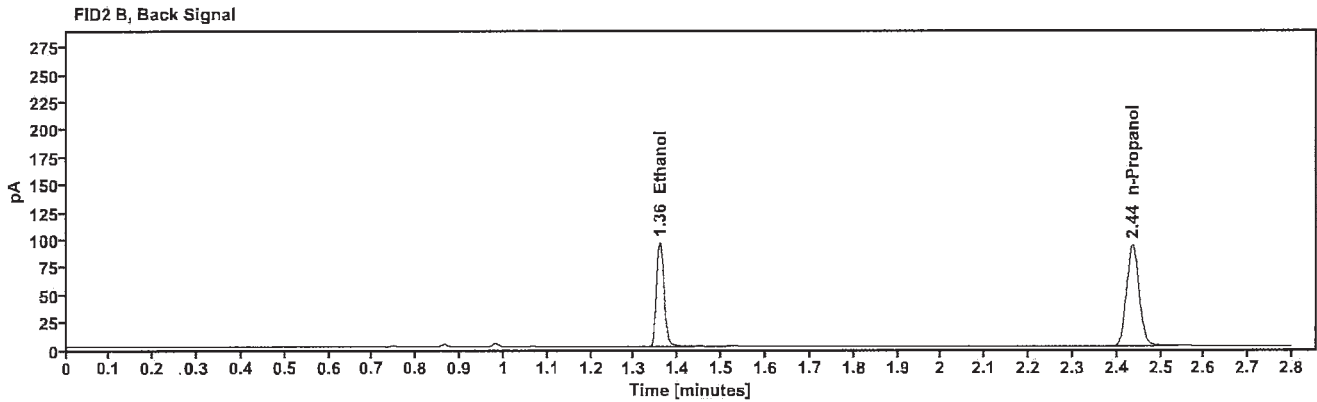
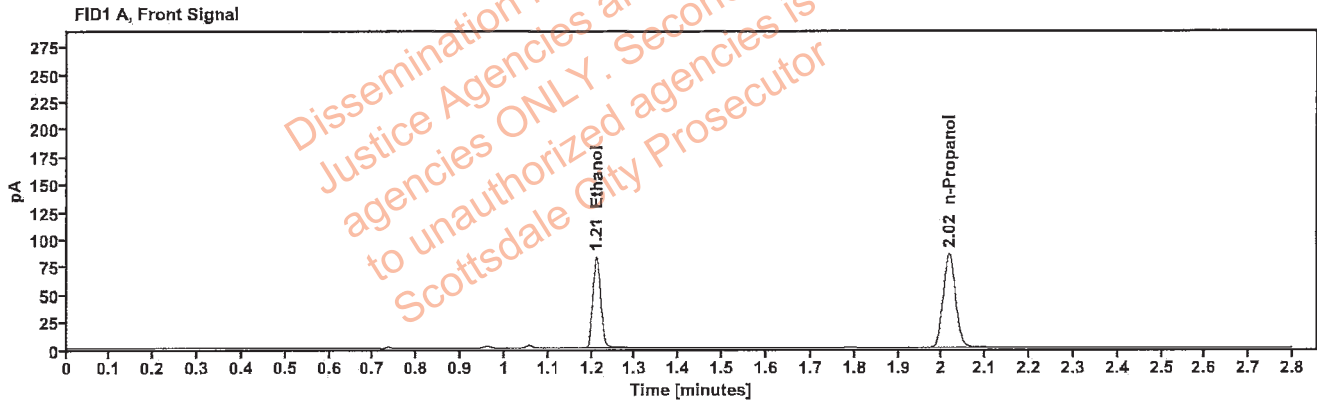


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1657	1.210	105.755
n-Propanol	-----	2.016	169.805

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

Compound	Time (min)	Peak Area
Ethanol	1.358	114.984
n-Propanol	2.436	183.561

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305193-2	Vial:	22
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:52:05 PM
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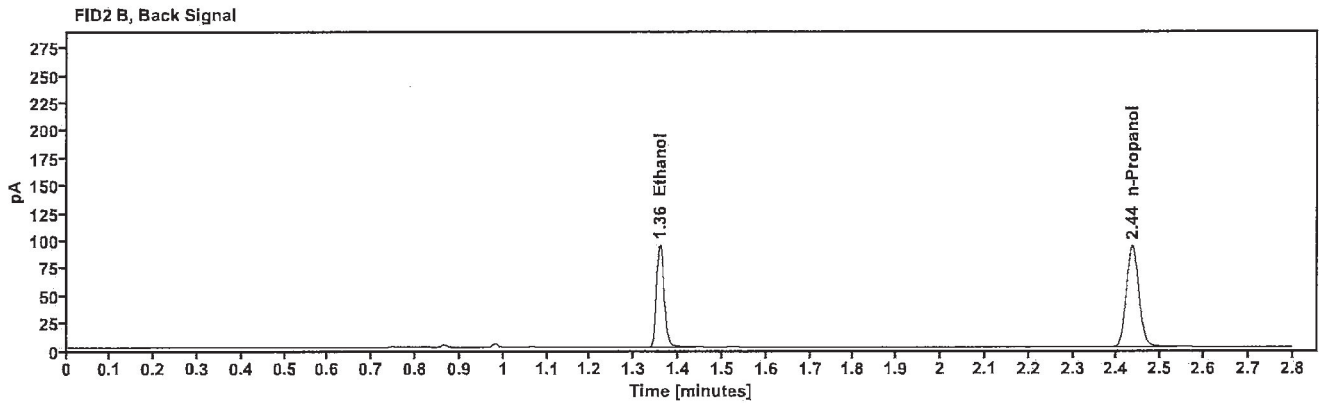
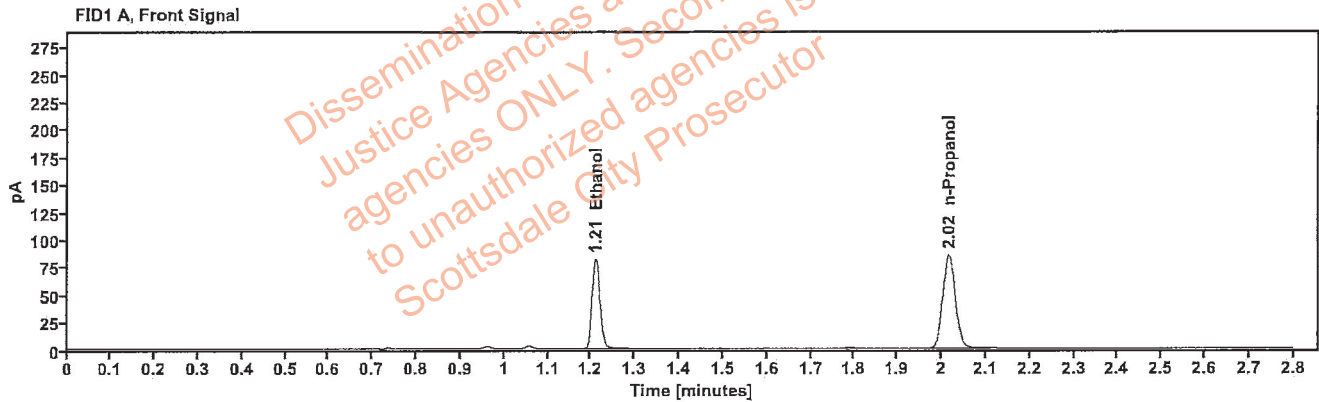


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1629	1.210	104.033
n-Propanol	-----	2.016	170.006

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

Compound	Time (min)	Peak Area
Ethanol	1.358	113.251
n-Propanol	2.435	183.651



[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305110-2	Vial:	23
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 2:56:03 PM
Data file:	C:\Chem32\1\Data\22Mar23\23.D	Analyst:	Brooke

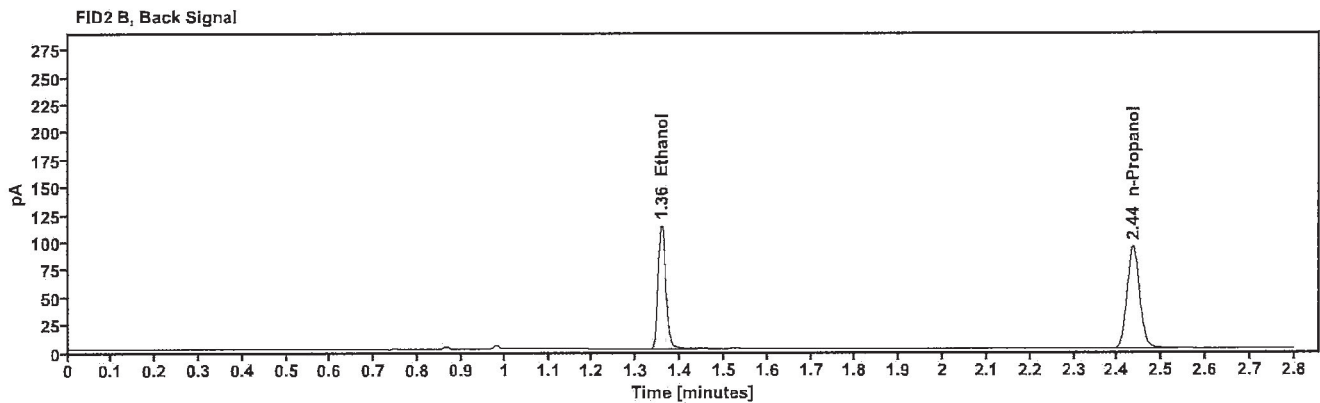
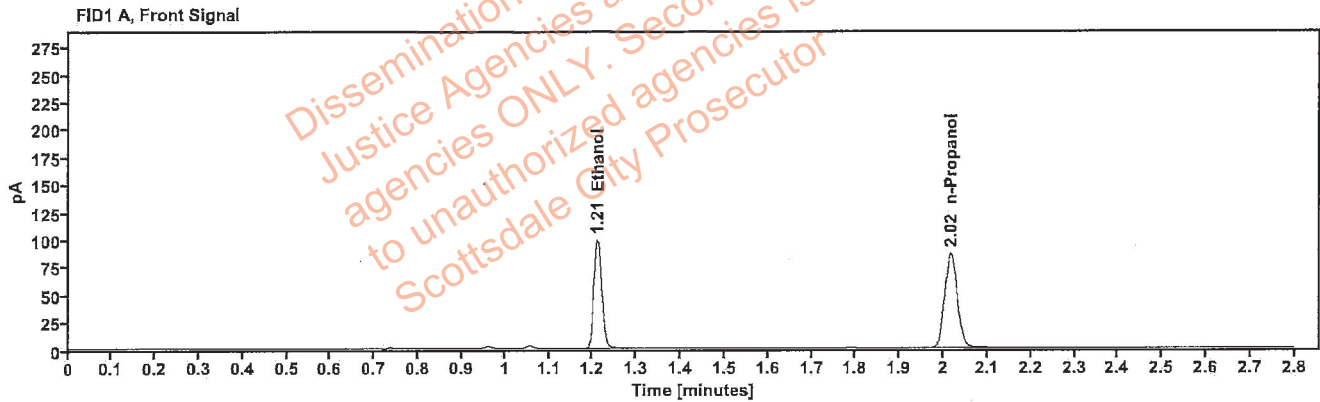


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1953	1.210	125.718
n-Propanol	-----	2.016	170.958

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

Compound	Time (min)	Peak Area
Ethanol	1.358	136.623
n-Propanol	2.436	185.000

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305110-2	Vial:	24
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:00:04 PM
Data file:	C:\Chem32\1\Data\22Mar23\24.D	Analyst:	Brooke

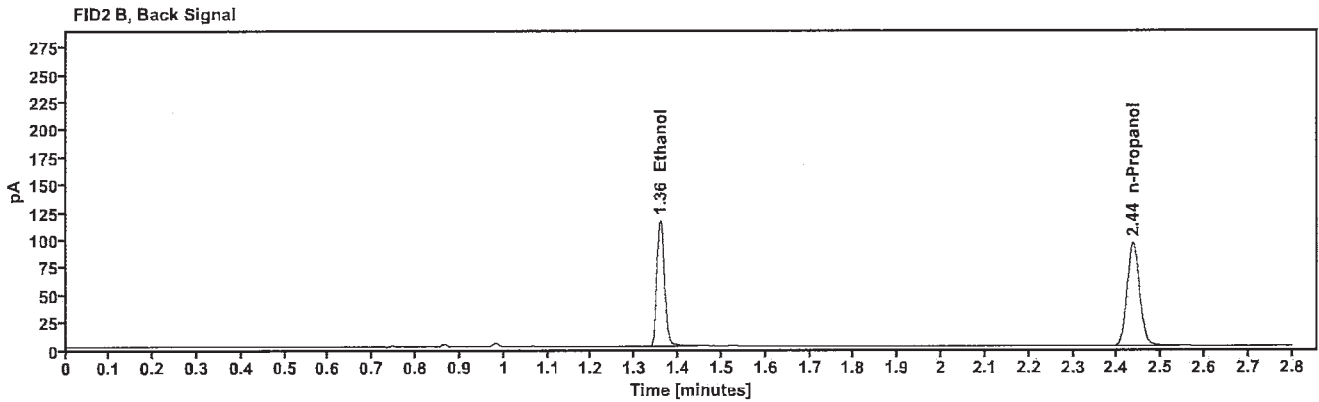
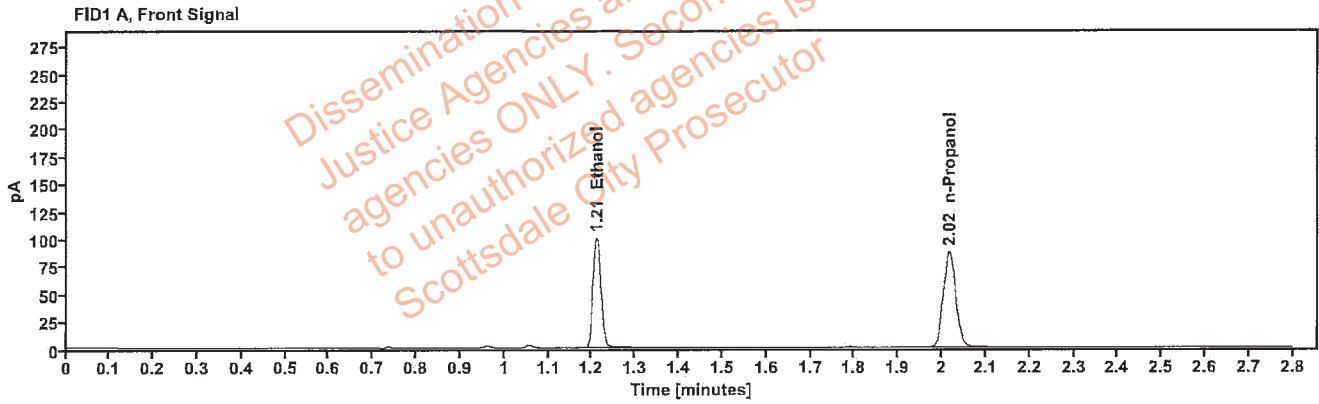


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1954	1.210	127.222
n-Propanol	-----	2.016	172.969

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

Compound	Time (min)	Peak Area
Ethanol	1.358	138.643
n-Propanol	2.436	187.333

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305292-1	Vial:	25
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:04:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\25.D	Analyst:	Brooke

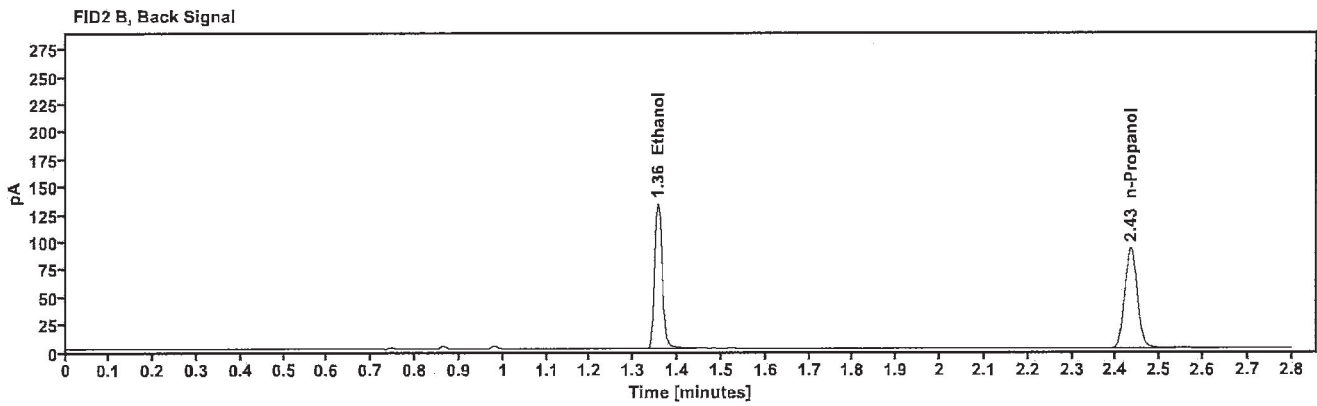
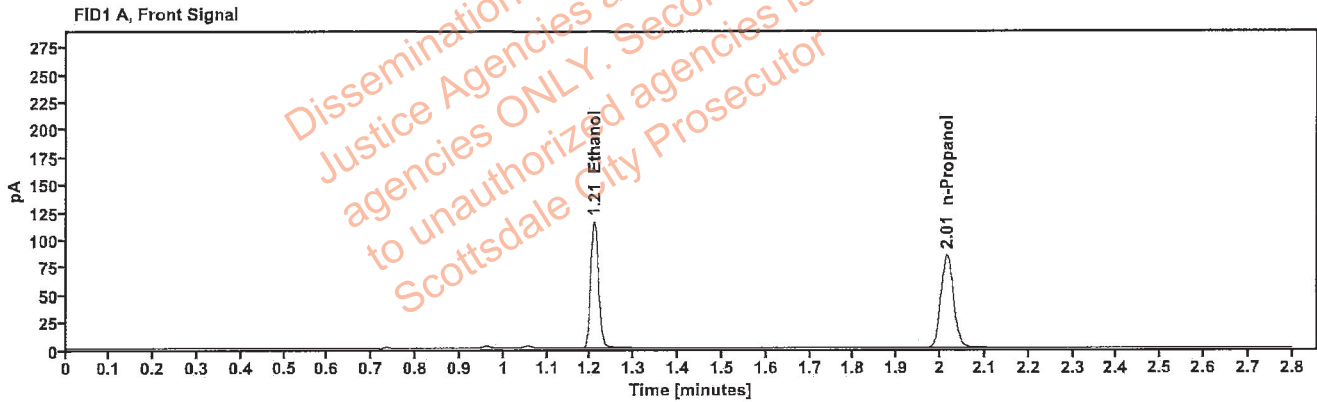


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2297	1.208	145.441
n-Propanol	-----	2.014	167.917

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

Compound	Time (min)	Peak Area
Ethanol	1.355	158.559
n-Propanol	2.433	181.762

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305292-1	Vial:	26
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:08:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\26.D	Analyst:	Brooke

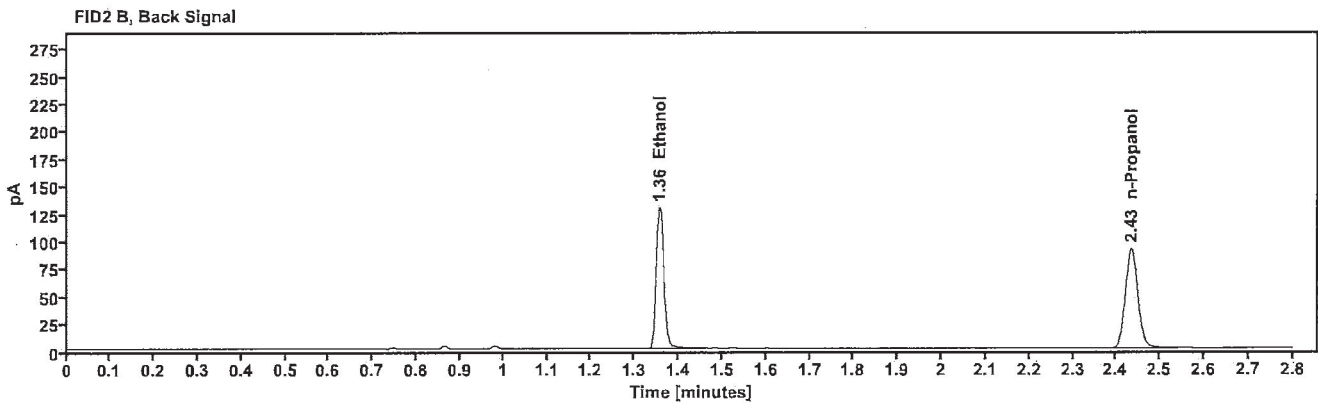
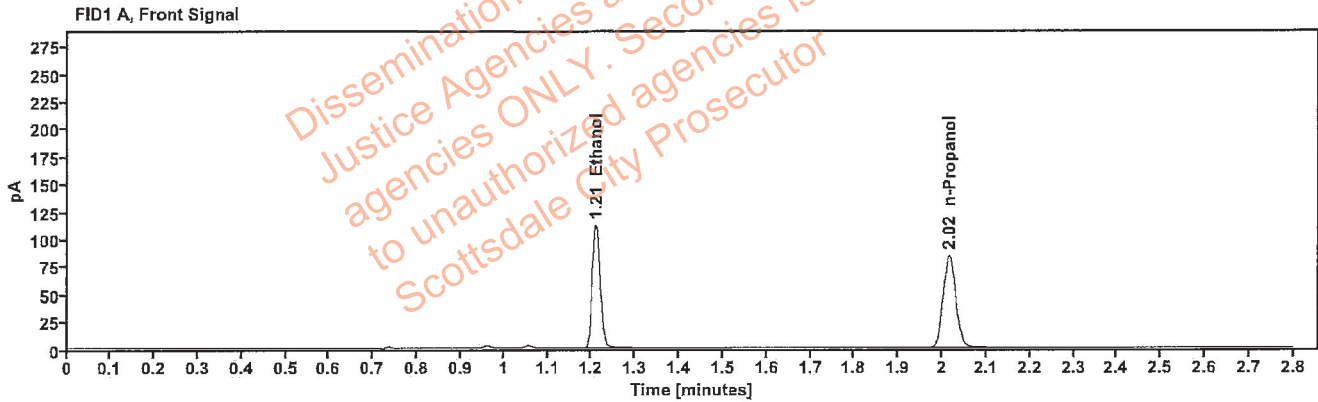


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2259	1.209	142.069
n-Propanol	---	2.015	166.780

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

Compound	Time (min)	Peak Area
Ethanol	1.357	155.357
n-Propanol	2.435	180.456

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305300-2	Vial:	27
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:12:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\27.D	Analyst:	Brooke

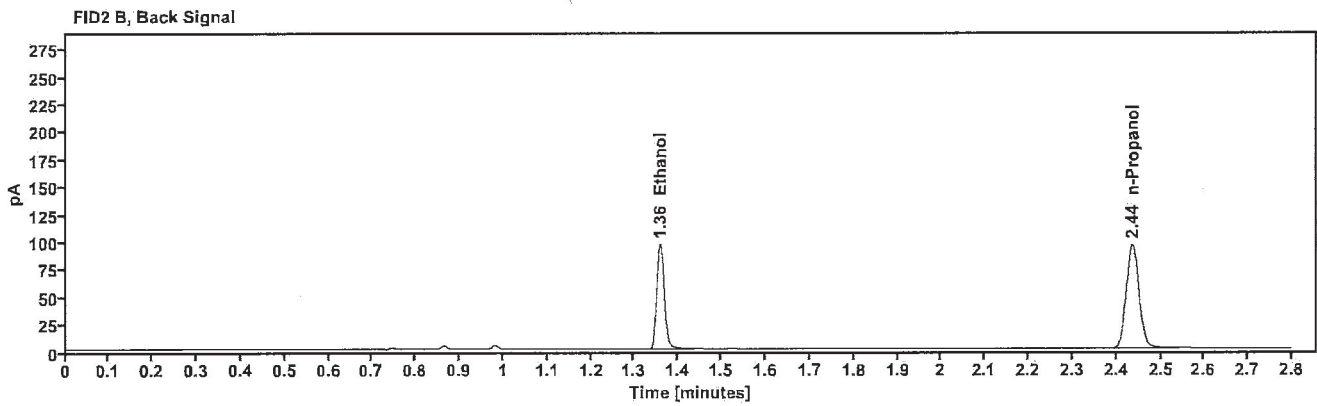
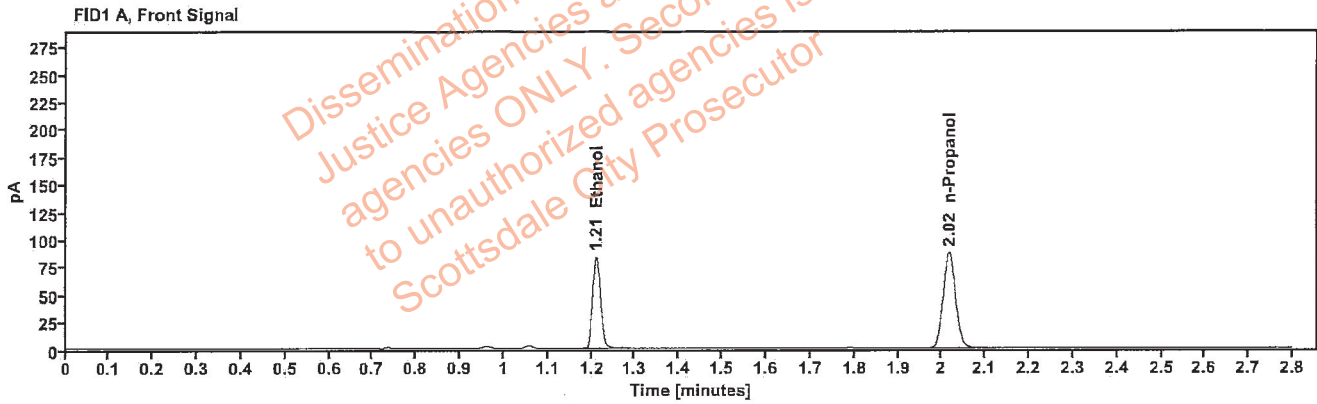


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1630	1.210	106.226
n-Propanol	-----	2.016	173.495

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

Compound	Time (min)	Peak Area
Ethanol	1.358	115.583
n-Propanol	2.436	187.839

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305300-2	Vial:	28
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:16:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\28.D	Analyst:	Brooke

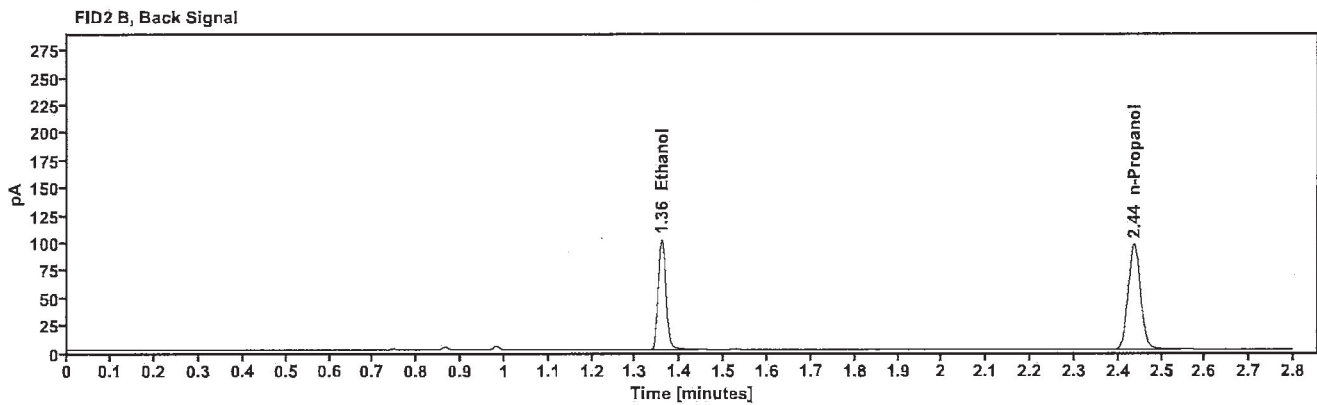
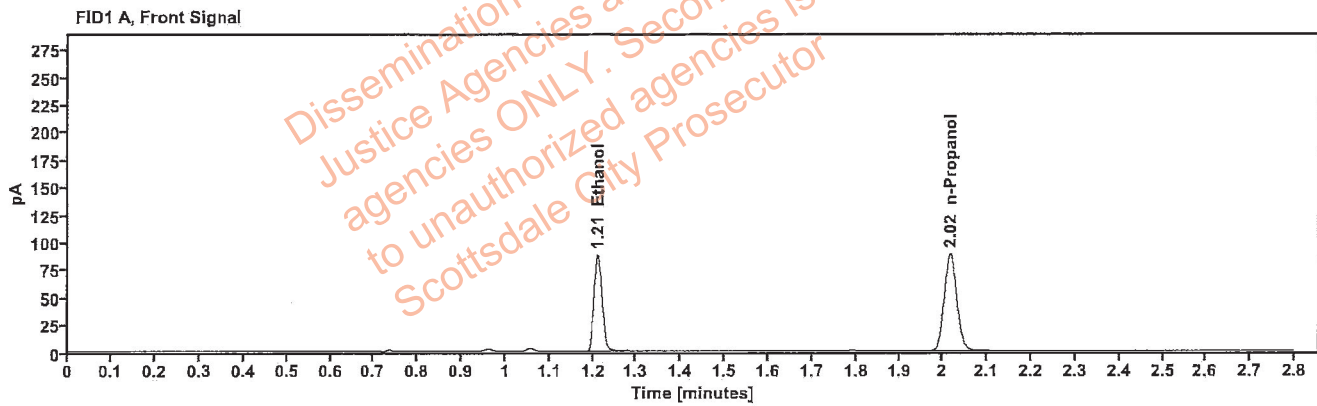


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1693	1.211	111.721
n-Propanol	-----	2.016	175.566

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

Compound	Time (min)	Peak Area
Ethanol	1.358	121.734
n-Propanol	2.436	190.137

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305368-1	Vial:	29
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:20:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\29.D	Analyst:	Brooke

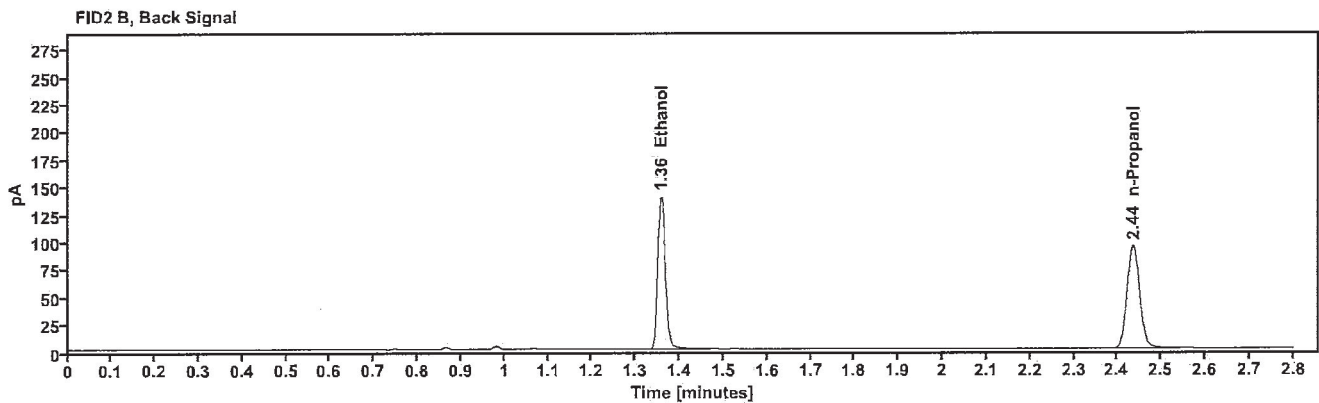
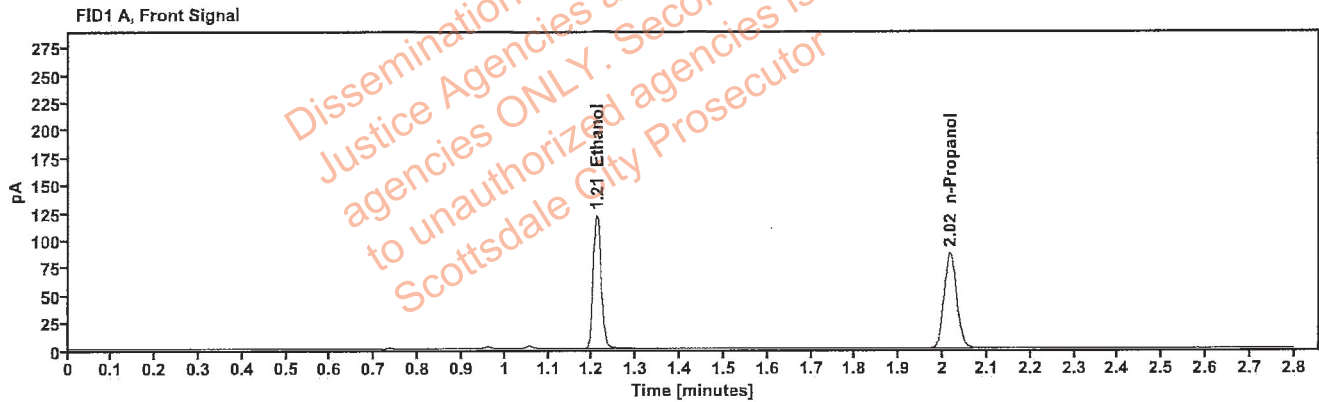


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2372	1.210	154.291
n-Propanol	-----	2.016	172.495

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

Compound	Time (min)	Peak Area
Ethanol	1.358	168.791
n-Propanol	2.436	186.808

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305368-1	Vial:	30
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:24:19 PM
Data file:	C:\Chem32\1\Data\22Mar23\30.D	Analyst:	Brooke

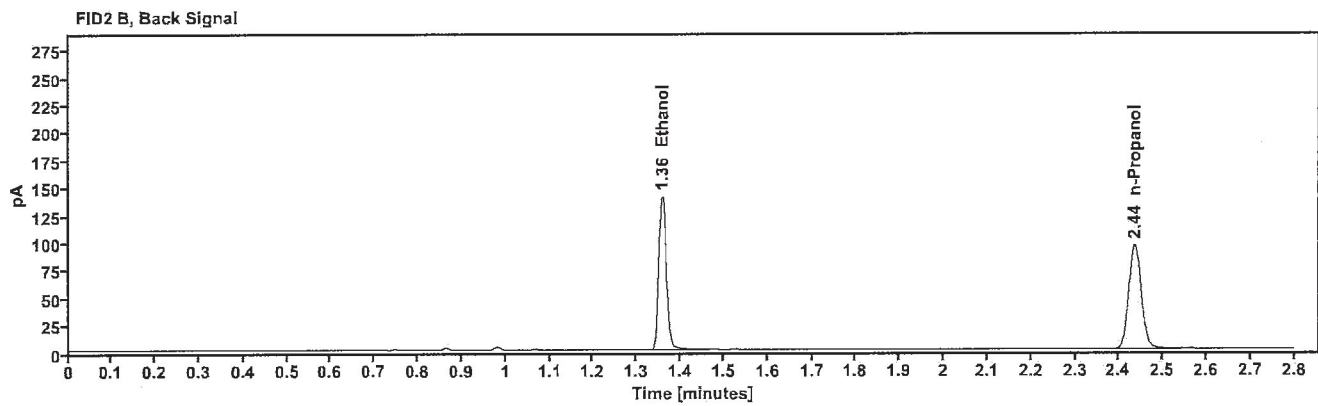
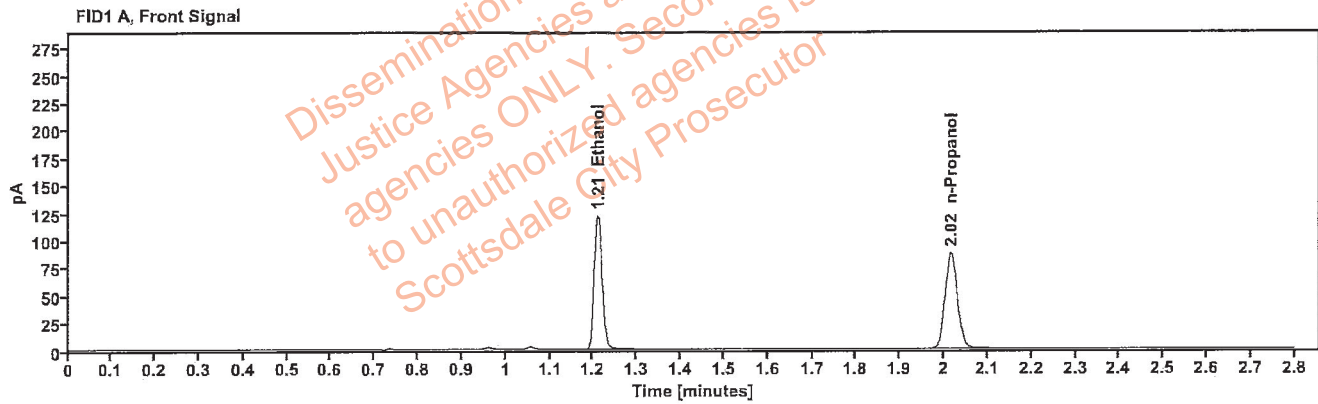


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2371	1.210	155.177
n-Propanol	---	2.016	173.511

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

Compound	Time (min)	Peak Area
Ethanol	1.358	169.857
n-Propanol	2.436	187.944



[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	424-01H.E.	Vial:	32
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:32:35 PM
Data file:	C:\Chem32\1\Data\22Mar23\32.D	Analyst:	Brooke

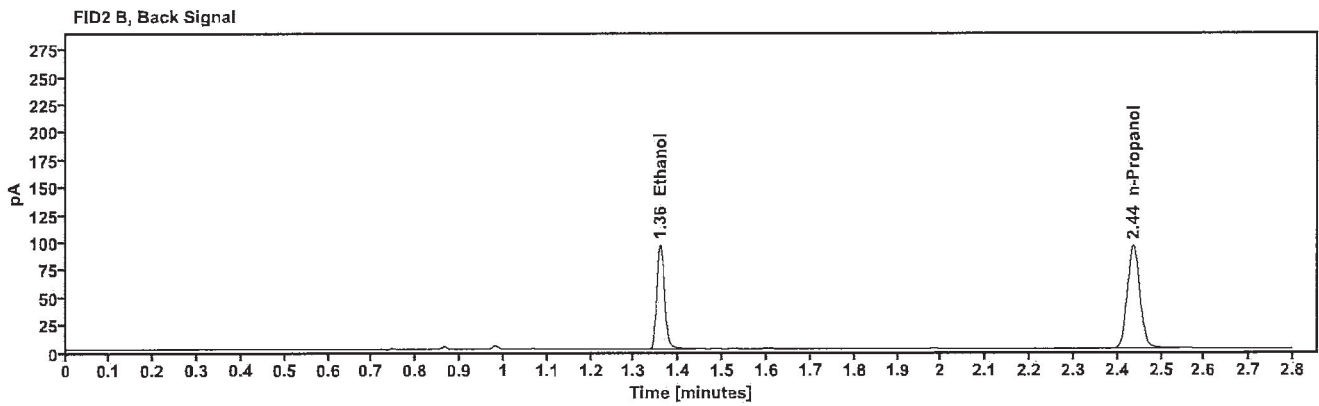
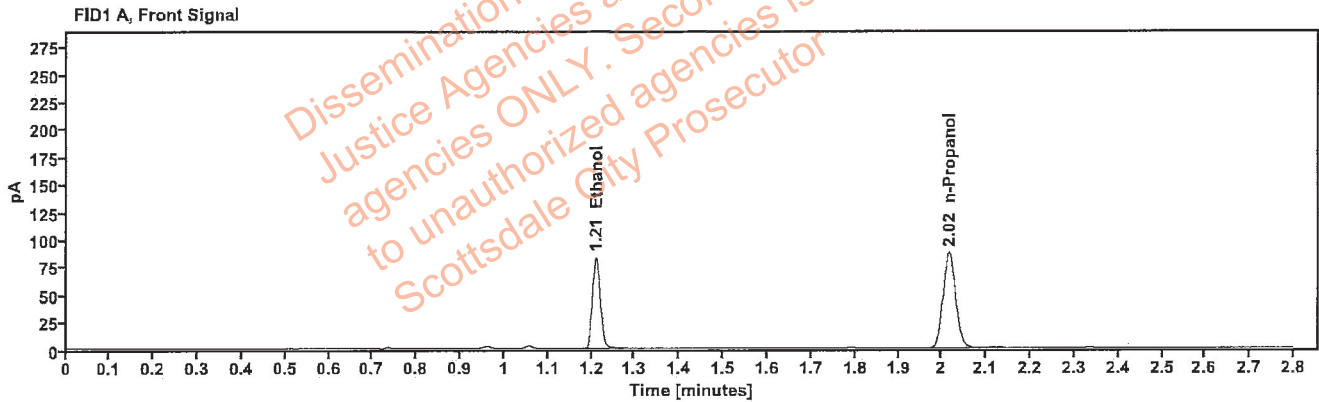


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1628	1.210	105.732
n-Propanol	-----	2.016	172.866

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

Compound	Time (min)	Peak Area
Ethanol	1.358	115.111
n-Propanol	2.436	187.054

: Brooke, Phillip - (24-Mar-2023)

Case: User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	424-01H.E.	Vial:	33
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:36:35 PM
Data file:	C:\Chem32\1\Data\22Mar23\33.D	Analyst:	Brooke

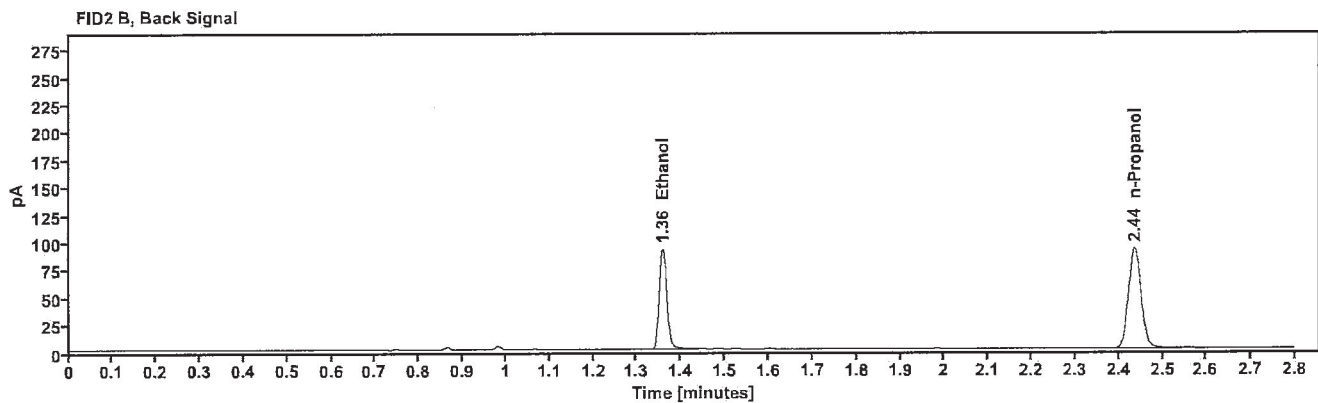
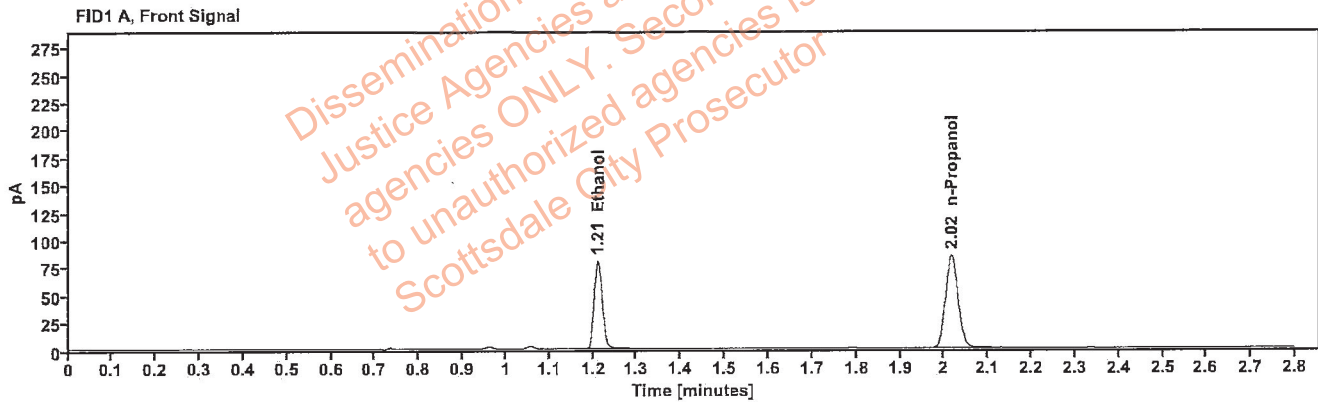


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1615	1.210	101.985
n-Propanol	---	2.016	168.110

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

Compound	Time (min)	Peak Area
Ethanol	1.358	110.956
n-Propanol	2.436	182.104

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	385-01S.M.	Vial:	34
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:40:34 PM
Data file:	C:\Chem32\1\Data\22Mar23\34.D	Analyst:	Brooke

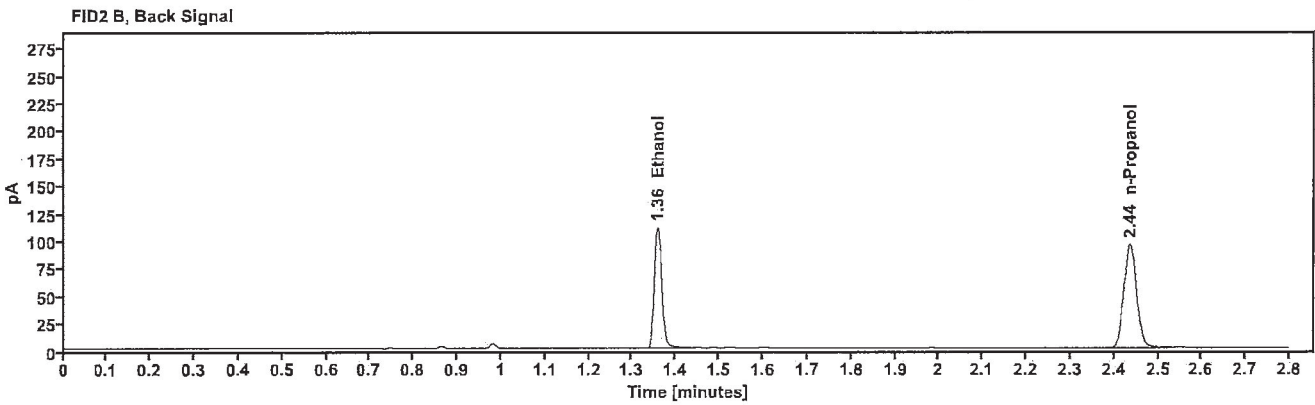
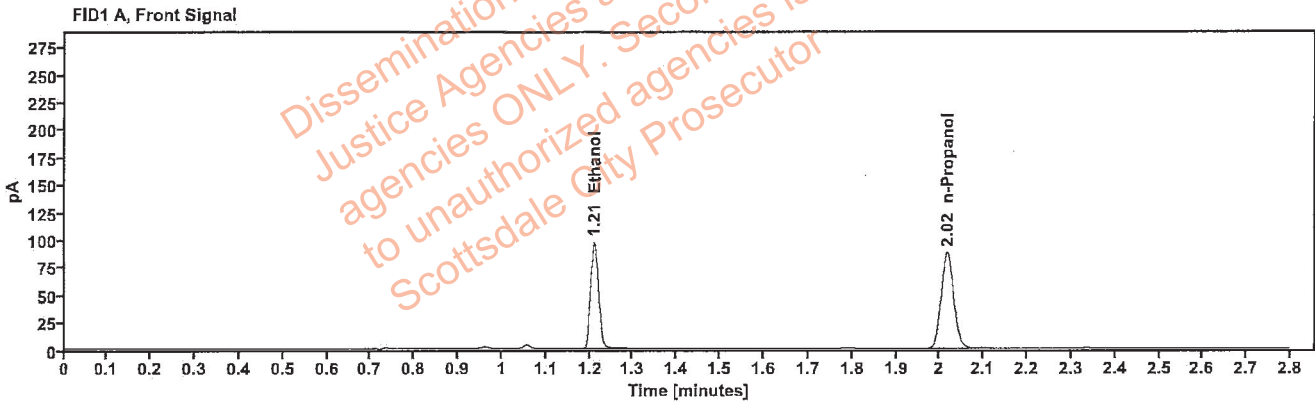


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1882	1.210	123.129
n-Propanol	---	2.016	173.796

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

Compound	Time (min)	Peak Area
Ethanol	1.358	133.976
n-Propanol	2.436	188.275

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	385-01S.M.	Vial:	35
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:44:34 PM
Data file:	C:\Chem32\1\Data\22Mar23\35.D	Analyst:	Brooke

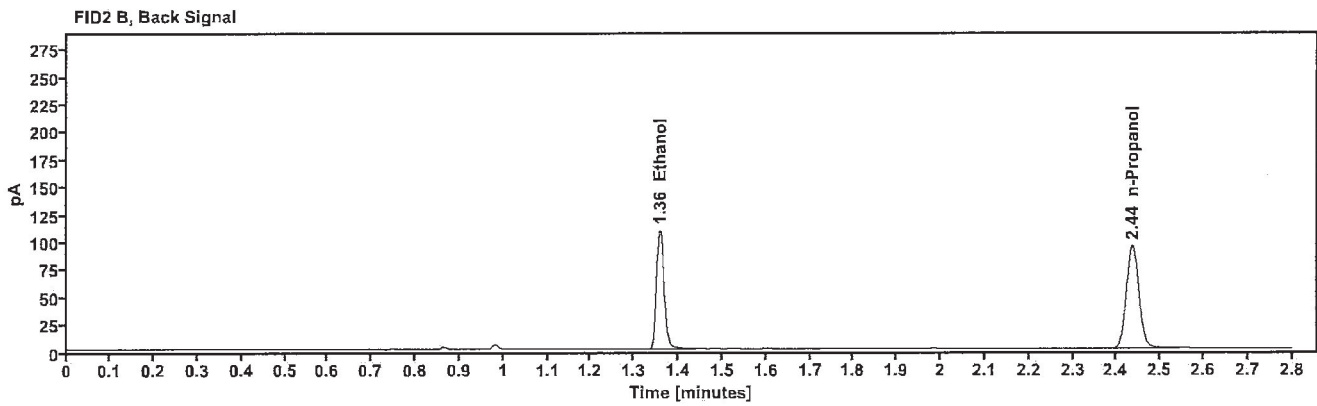
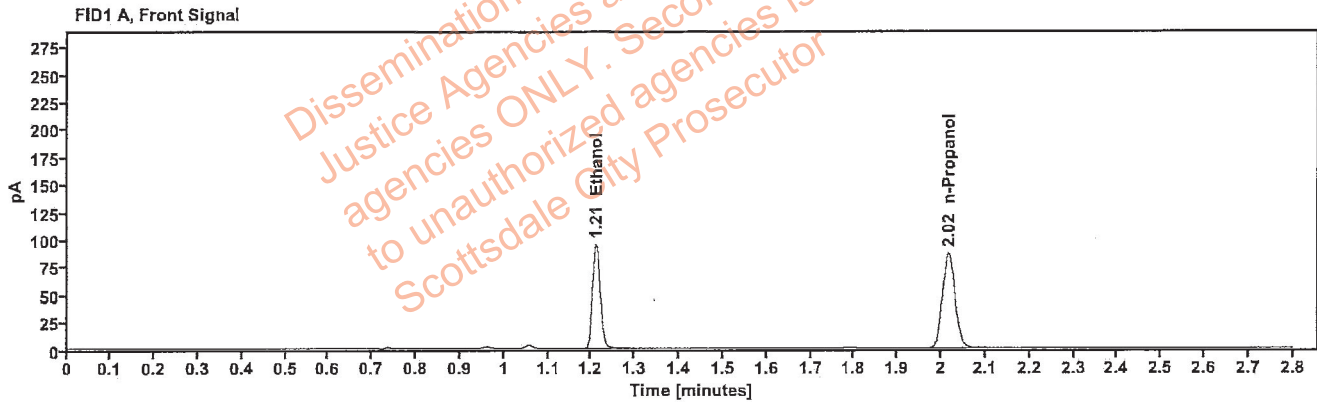


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1864	1.210	120.509
n-Propanol	-----	2.016	171.758

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

Compound	Time (min)	Peak Area
Ethanol	1.358	131.235
n-Propanol	2.436	186.255

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	176-01D.J.	Vial:	36
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:48:35 PM
Data file:	C:\Chem32\1\Data\22Mar23\36.D	Analyst:	Brooke

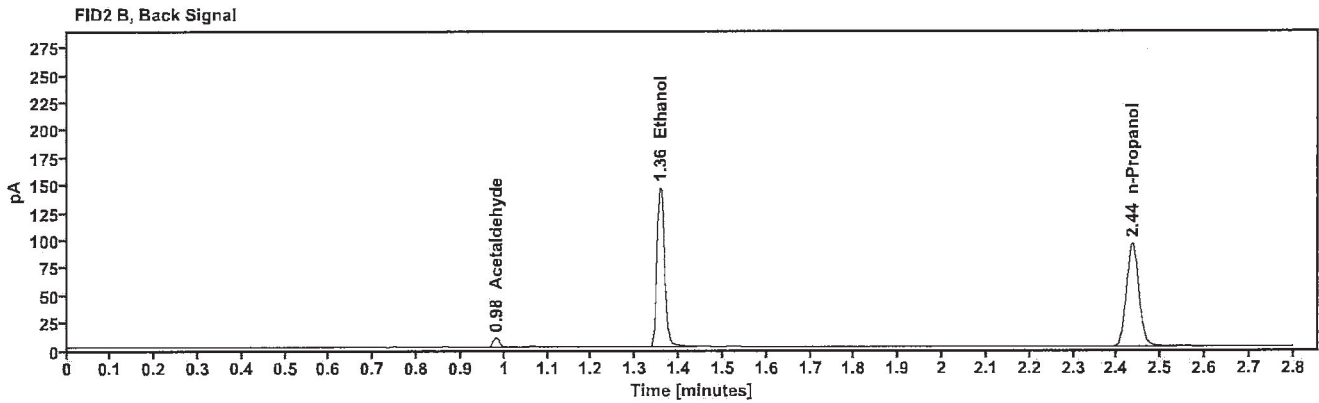
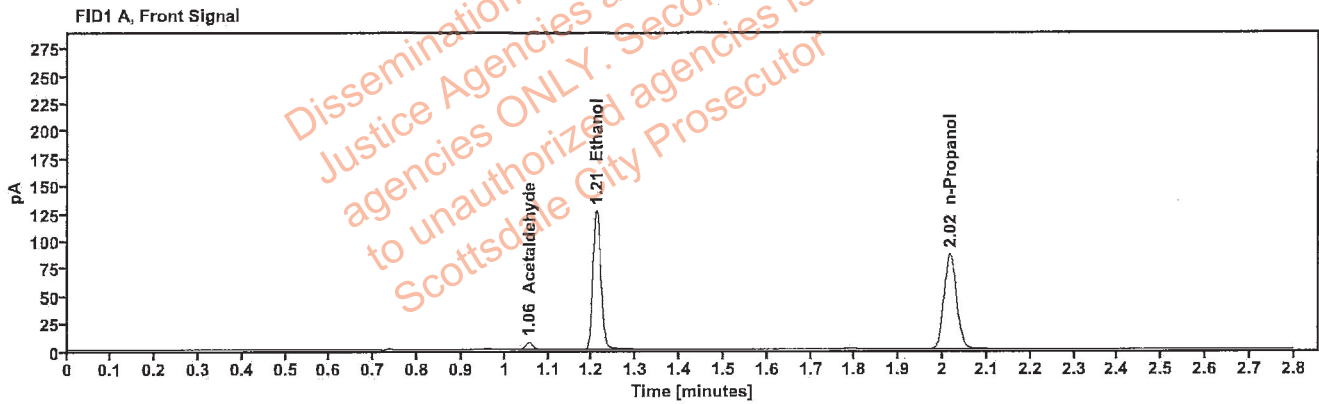


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	---	1.055	6.977
>Ethanol	0.2481	1.210	161.185
n-Propanol	---	2.015	172.215

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	8.260
Ethanol	1.357	175.120
n-Propanol	2.435	186.814

[REDACTED]: Brooke, Phillip - (24-Mar-2023)

Case: [REDACTED] User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	176-01D.J.	Vial:	37
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:52:49 PM
Data file:	C:\Chem32\1\Data\22Mar23\37.D	Analyst:	Brooke

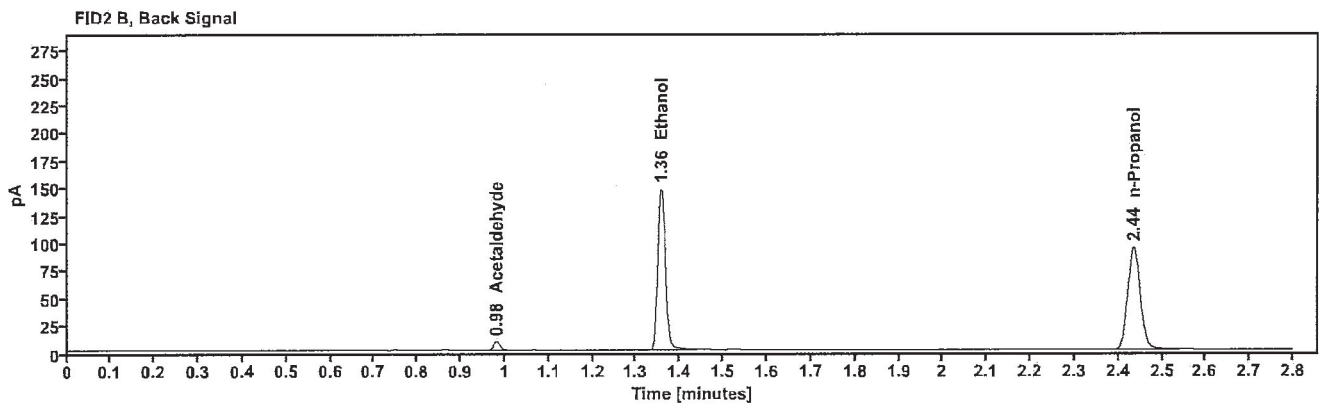
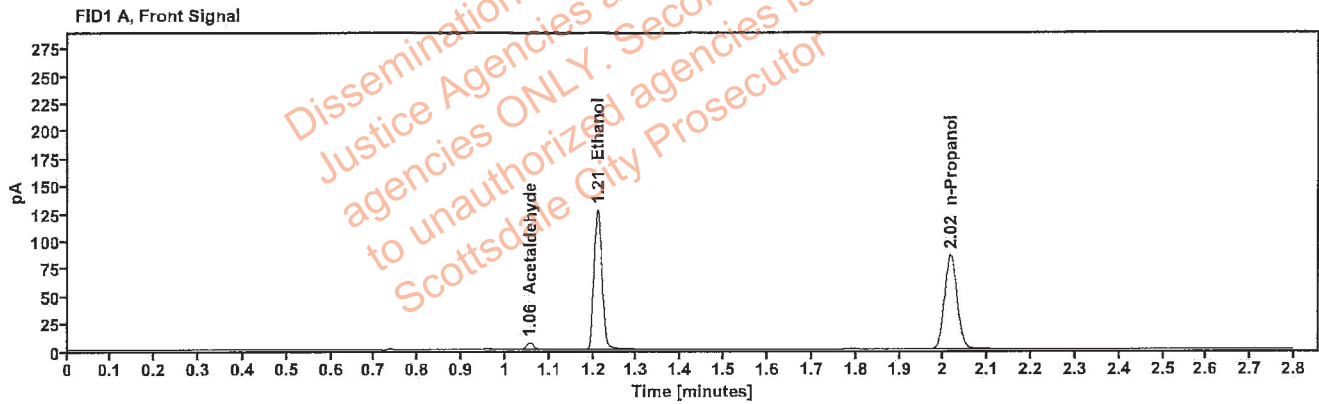


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	---	1.055	6.424
>Ethanol	0.2521	1.210	162.696
n-Propanol	---	2.015	171.032

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	7.647
Ethanol	1.357	176.961
n-Propanol	2.435	185.404

██████████: Brooke, Phillip - (24-Mar-2023)

Case: ██████████ User: pbrooke 3/24/2023

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305359-3	Vial:	38
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 3:56:50 PM
Data file:	C:\Chem32\1\Data\22Mar23\38.D	Analyst:	Brooke

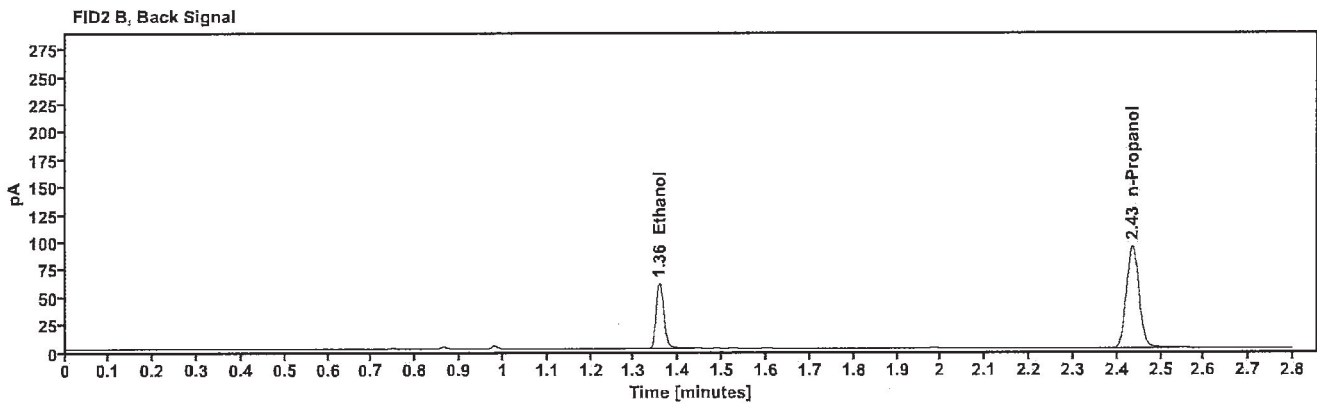
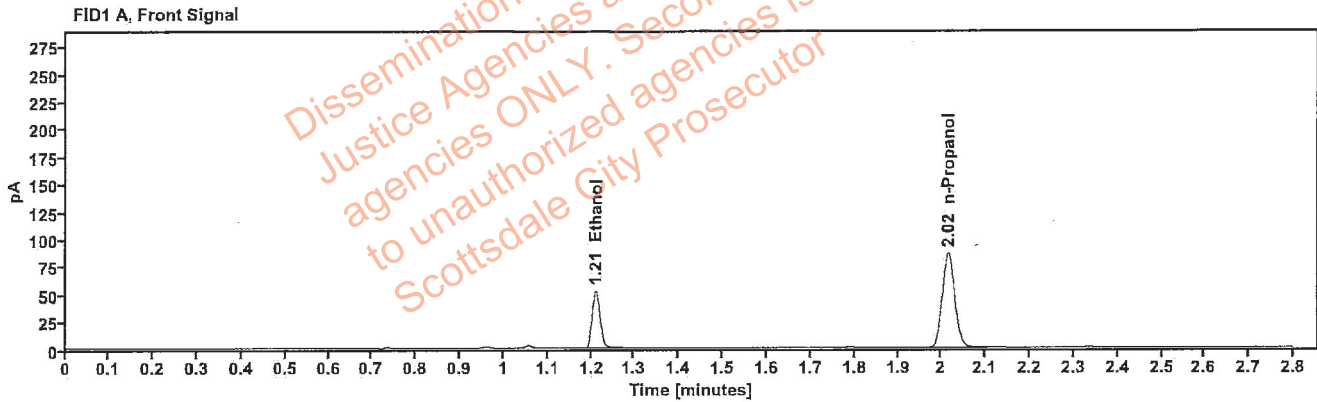


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1042	1.210	66.493
n-Propanol	-----	2.015	170.945

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

Compound	Time (min)	Peak Area
Ethanol	1.357	72.298
n-Propanol	2.435	185.729

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	2305359-3	Vial:	39
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	22Mar23
Instrument:	US14173023 CN14160045	Injection date:	3/22/2023 4:00:48 PM
Data file:	C:\Chem32\1\Data\22Mar23\39.D	Analyst:	Brooke

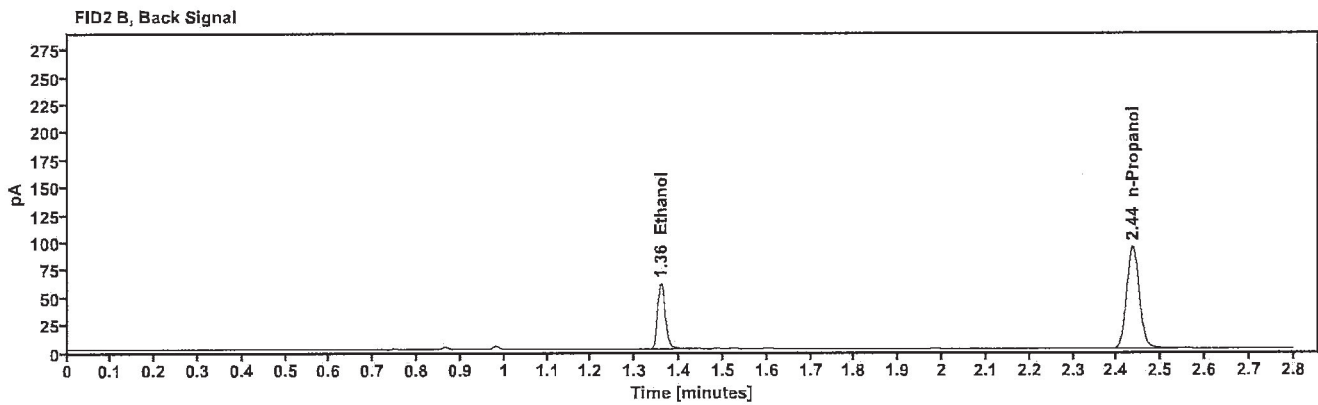
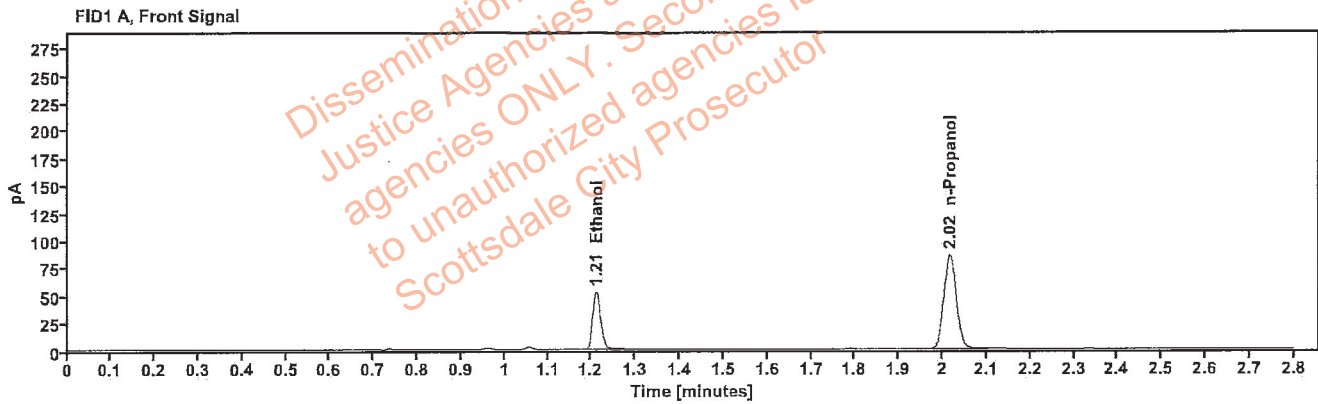


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1051	1.211	66.753
n-Propanol	---	2.016	170.197

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

Compound	Time (min)	Peak Area
Ethanol	1.358	72.723
n-Propanol	2.436	184.777