

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 9/6/22 SEQUENCE NAME 06Sep22

**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 0.99993  
 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 070622AQ
6	Volatiles mix	6 compounds	6 compounds	SPD lab 050721MIX
7	Aqueous control	0.400 g/dL	0.395 g/dL	Lipomed 11092018-A
8	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 14082019-B
9	Blood control	0.199 g/dL	0.200 g/dL	ACQ 4110320133/8
16	Aqueous control	0.400 g/dL	0.399 g/dL	Lipomed 11092018-A
17	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 14082019-B
18	Blood control	0.199 g/dL	0.201 g/dL	ACQ 4110320133/8
19	Blank	Not detected	Not detected	SPD lab 101921WB

**SUBJECT SAMPLES**

Subjects in the sequence 1 Subjects requiring reanalysis 0

ADDITIONAL NOTES: All testing proceeded as expected.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Run valid  Run invalid  Phong B. ... Analyst  
 Run valid  Run invalid  Asu ... Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

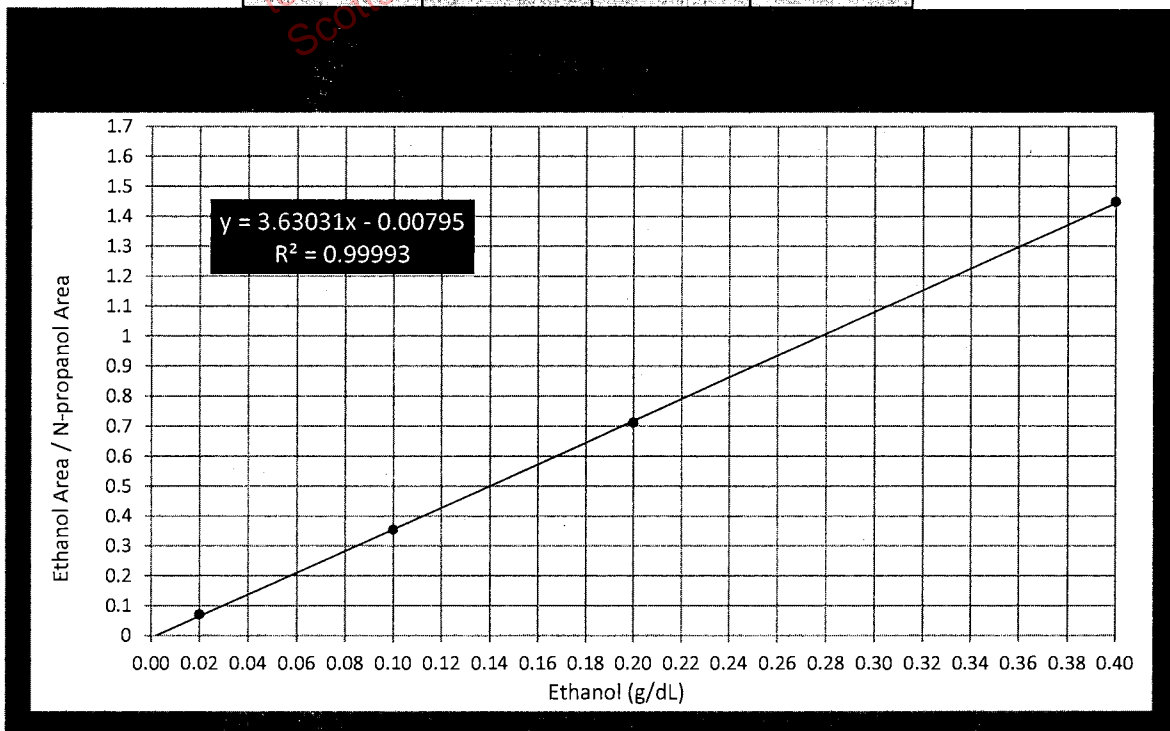
PB

SEQUENCE NAME: 06Sep22

ANALYST: Brooke

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 070622AQ	5	negative	negative	-	-
0.400 Lipomed 11092018-A	7	0.395	0.400	1.25	-0.005
0.040 Lipomed 14082019-B	8	0.041	0.040	2.50	0.001
0.199 ACQ 4110320133/8	9	0.200	0.199	0.50	0.001
0.400 Lipomed 11092018-A	16	0.399	0.400	0.25	-0.001
0.040 Lipomed 14082019-B	17	0.041	0.040	2.50	0.001
0.199 ACQ 4110320133/2	18	0.201	0.199	1.01	0.002
blank 101921WB	19	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.119	160.480	0.069
0.100	56.877	160.898	0.353
0.200	113.255	159.134	0.712
0.400	231.618	160.007	1.448



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	FN10051909	<b>Vial:</b>	1
<b>Description:</b>	0.020 calibrator	<b>Sequence:</b>	06Sep22
<b>Method:</b>	ethanol quant.M	<b>Injection date:</b>	9/6/2022 12:07:58 PM
<b>Instrument:</b>	US14173023 CN14160045	<b>Analyst:</b>	Brooke <span style="font-family: cursive;">FB</span>
<b>Data file:</b>	C:\Chem32\1\Data\06Sep22\1.D		

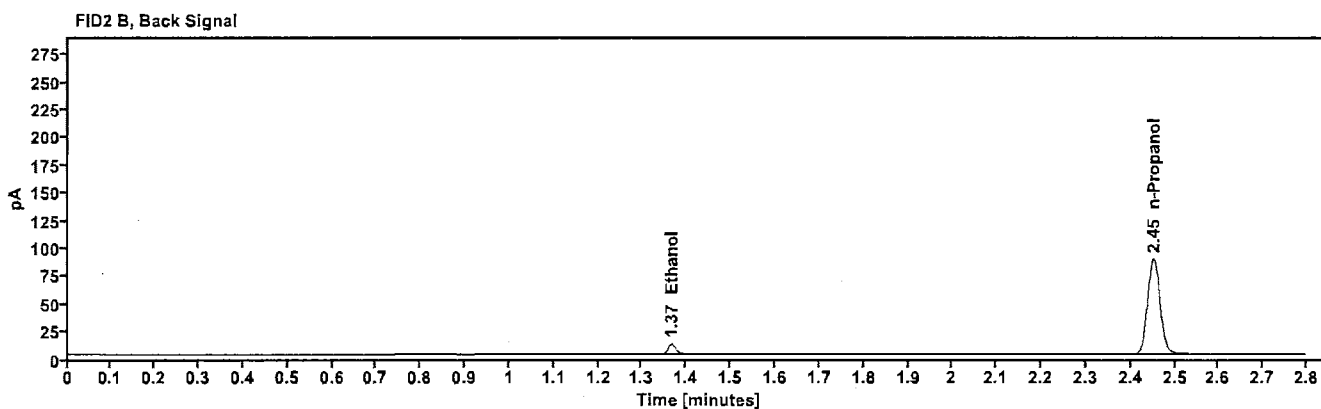
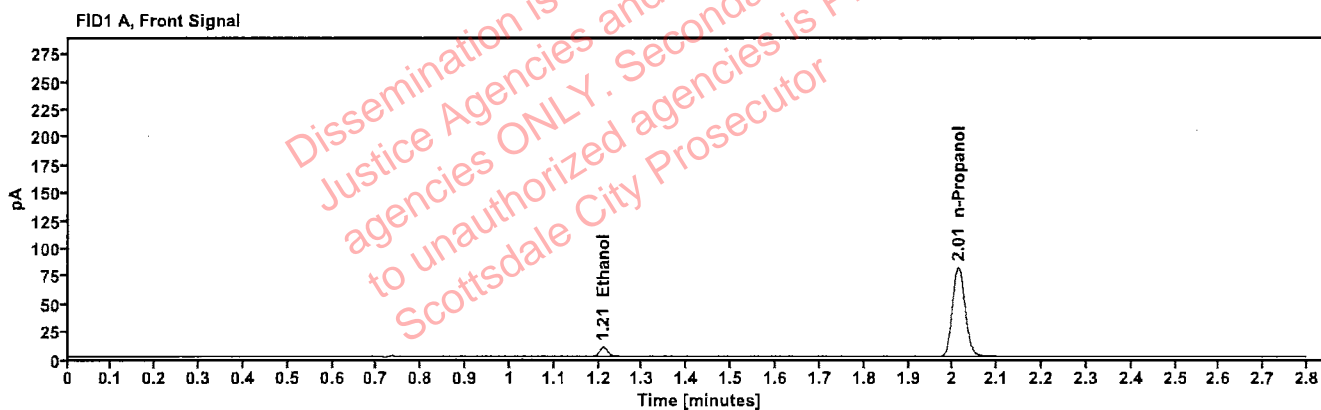


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.210	11.119
n-Propanol	2.012	160.480

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

Compound	Time (min)	Peak Area
Ethanol	1.366	11.925
n-Propanol	2.452	173.327

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	FN05311902	<b>Vial:</b>	2
<b>Description:</b>	0.100 calibrator	<b>Sequence:</b>	06Sep22
<b>Method:</b>	ethanol quant.M	<b>Injection date:</b>	9/6/2022 12:11:58 PM
<b>Instrument:</b>	US14173023 CN14160045	<b>Analyst:</b>	Brooke <i>FB</i>
<b>Data file:</b>	C:\Chem32\1\Data\06Sep22\2.D		

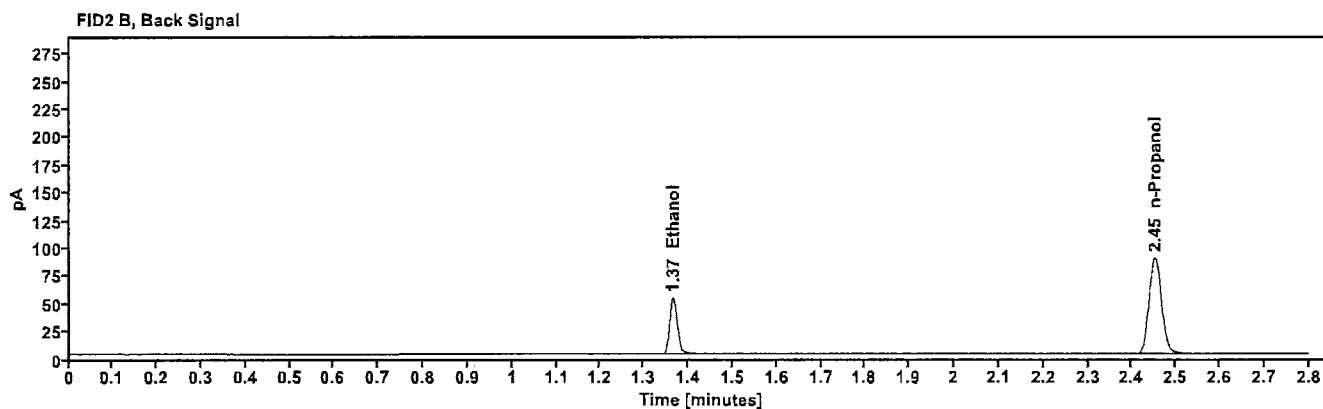
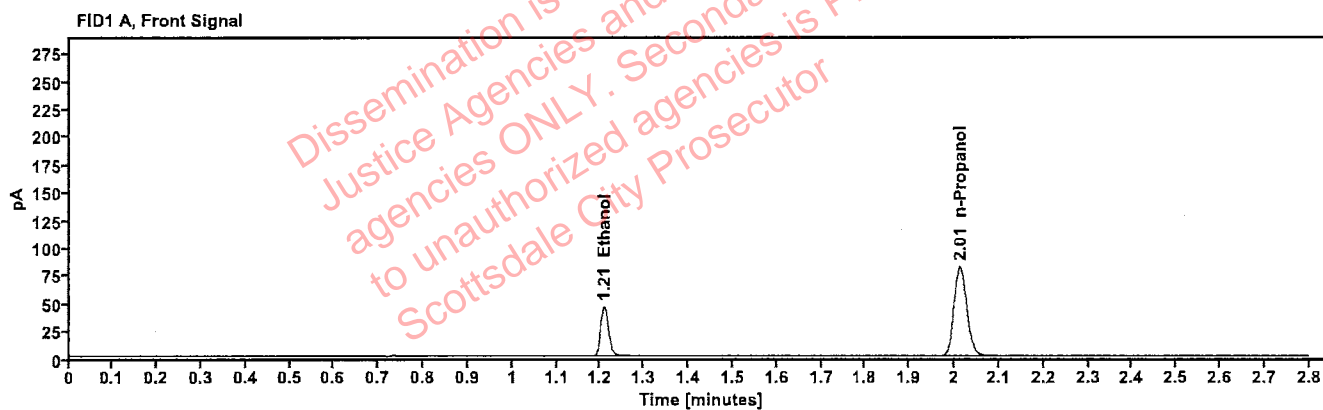


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	56.877
n-Propanol	2.013	160.898

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

Compound	Time (min)	Peak Area
Ethanol	1.365	62.018
n-Propanol	2.452	174.450

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN02052101	<b>Vial:</b> 3
<b>Description:</b> 0.200 calibrator	<b>Sequence:</b> 06Sep22
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 9/6/2022 12:15:58 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke <span style="float: right;">PB</span>
<b>Data file:</b> C:\Chem32\1\Data\06Sep22\3.D	

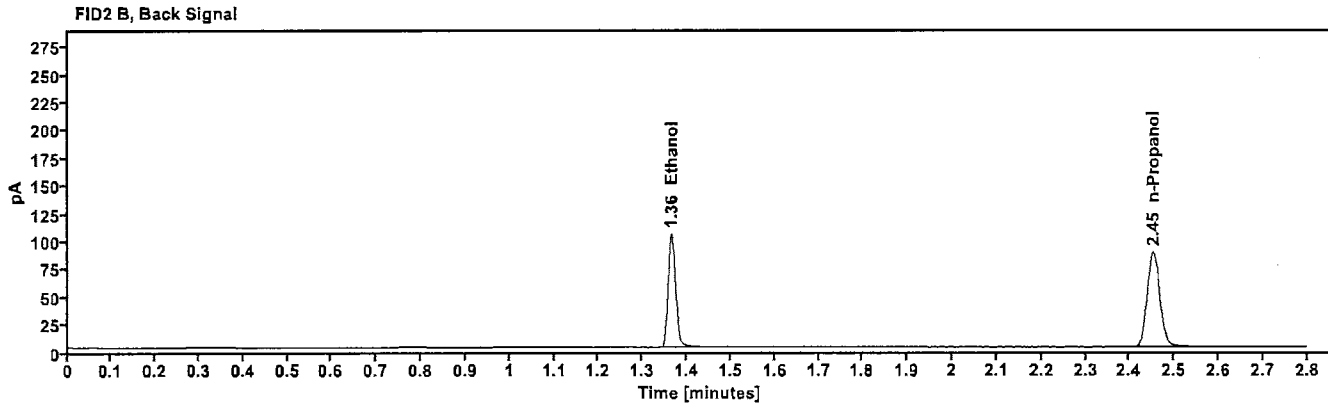
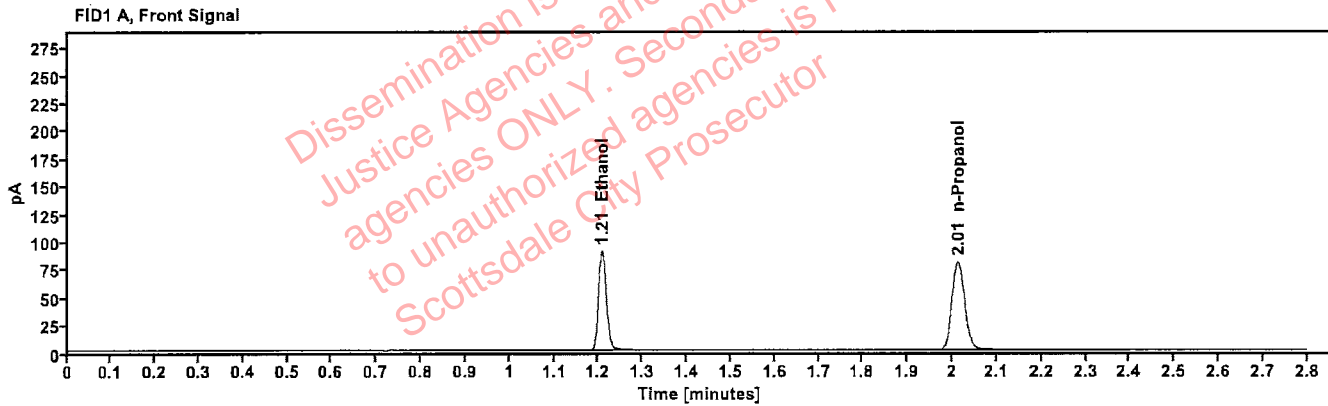


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.207	113.255
n-Propanol	2.013	159.134

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

Compound	Time (min)	Peak Area
Ethanol	1.365	124.487
n-Propanol	2.452	172.889

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN03052102	<b>Vial:</b> 4
<b>Description:</b> 0.400 calibrator	<b>Sequence:</b> 06Sep22
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 9/6/2022 12:19:58 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke <i>RB</i>
<b>Data file:</b> C:\Chem32\1\Data\06Sep22\4.D	

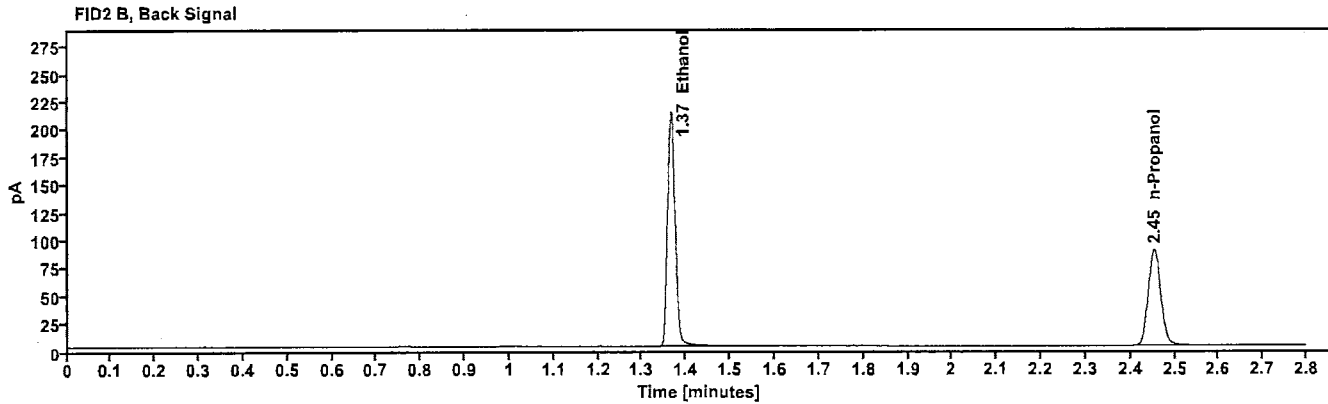
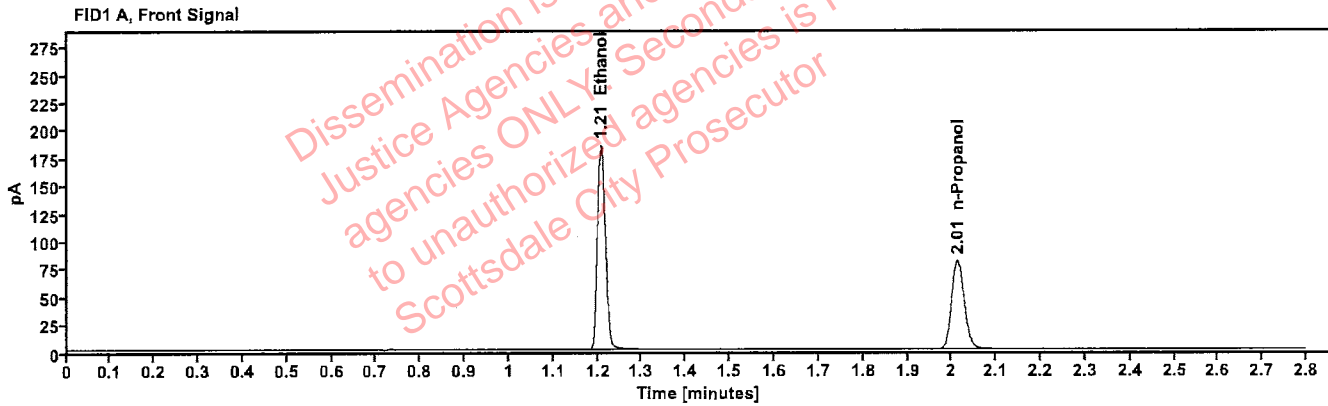


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.207	231.618
n-Propanol	2.013	160.007

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

Compound	Time (min)	Peak Area
Ethanol	1.366	257.480
n-Propanol	2.453	174.416

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	070622AQ	<b>Vial:</b>	5
<b>Description:</b>	Negative	<b>LIMS ID:</b>	
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 12:23:58 PM
<b>Data file:</b>	C:\Chem32\1\Data\06Sep22\5.D	<b>Analyst:</b>	Brooke

*Handwritten initials*

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Scottsdale City Prosecutor

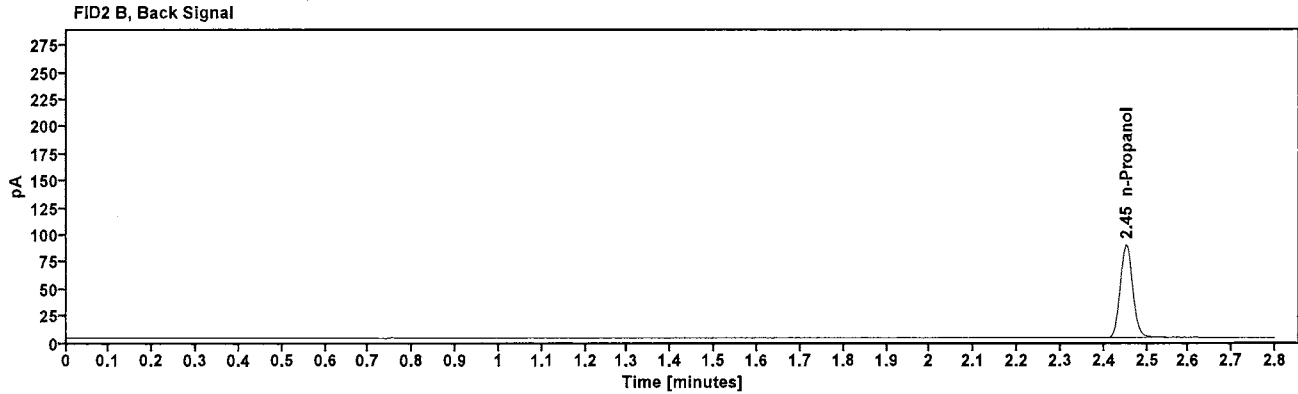
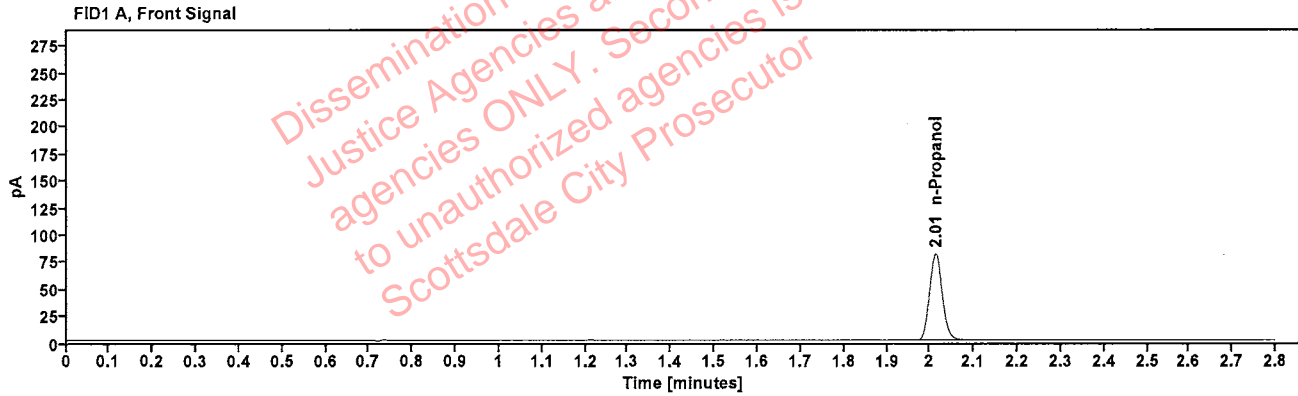


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.012	159.662

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

Compound	Time (min)	Peak Area
n-Propanol	2.452	174.192

# Scottsdale Police Department Crime Lab Volatiles Analysis

<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>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 12:27:59 PM
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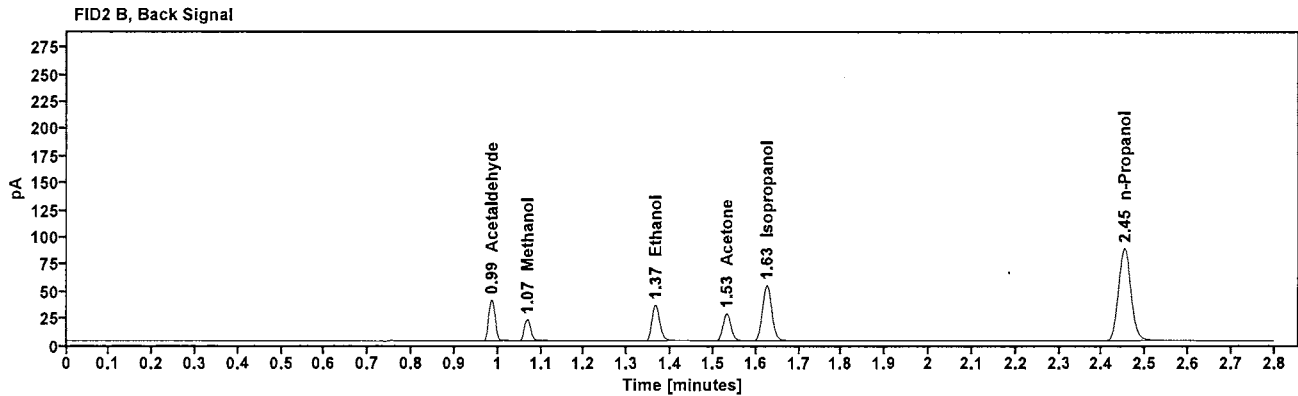
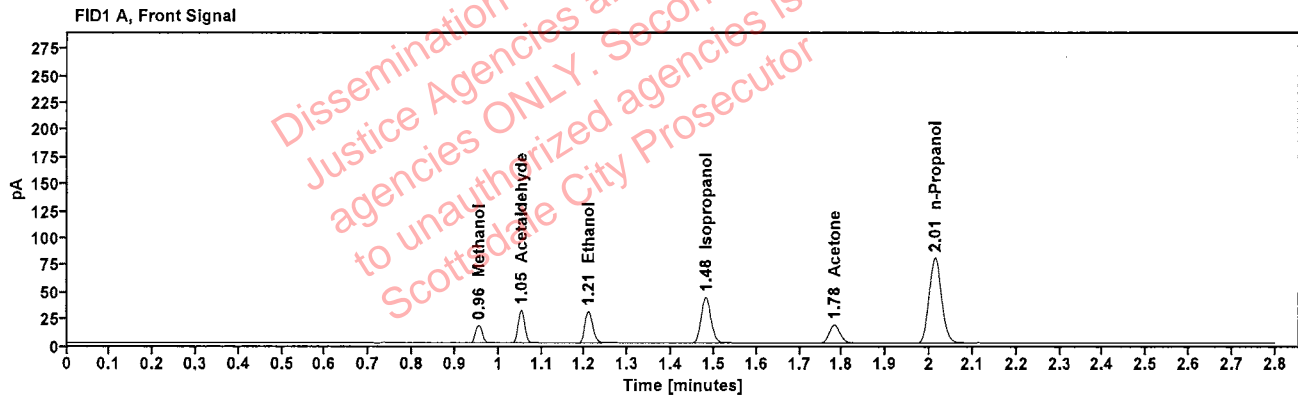


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.955	18.511
Acetaldehyde	-----	1.053	33.271
>Ethanol	0.0676	1.208	37.428
Isopropanol	-----	1.481	68.266
Acetone	-----	1.781	29.545
n-Propanol	-----	2.012	157.612

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.986	37.683
Methanol	1.069	20.644
Ethanol	1.366	41.044
Acetone	1.532	32.977
Isopropanol	1.626	76.992
n-Propanol	2.452	172.481



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	11092018-A	Vial:	7
Description:	0.400	LIMS ID:	
Method:	ethanol quant.M	Sequence:	06Sep22
Instrument:	US14173023 CN14160045	Injection date:	9/6/2022 12:32:13 PM
Data file:	C:\Chem32\1\Data\06Sep22\7.D	Analyst:	Brooke

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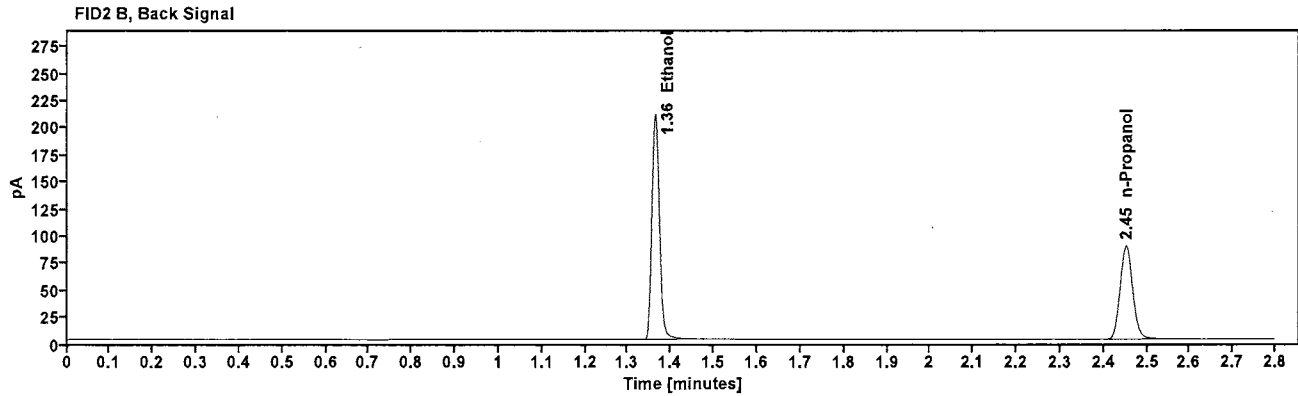
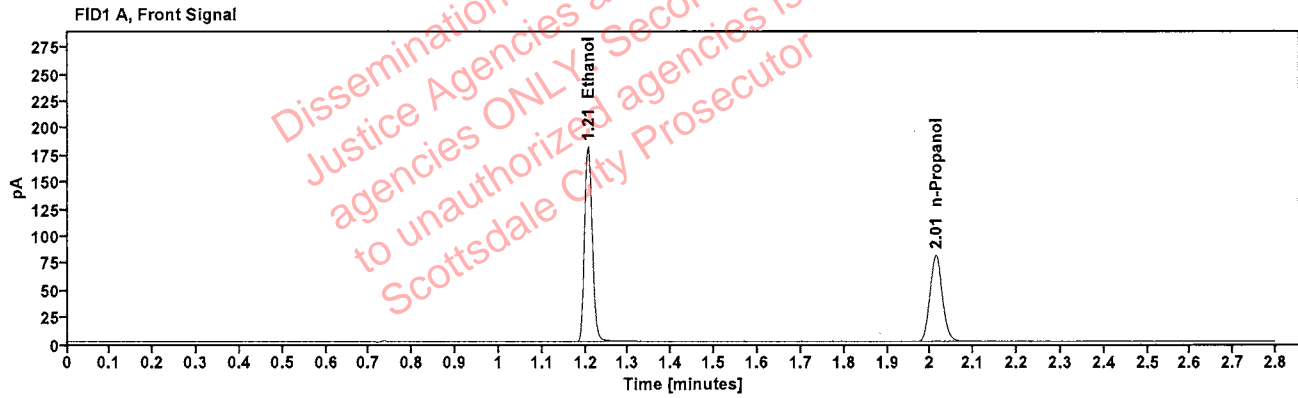


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3958	1.206	227.448
n-Propanol	-----	2.012	159.192

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

Compound	Time (min)	Peak Area
Ethanol	1.364	253.721
n-Propanol	2.452	174.701

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 14082019-B	<b>Vial:</b> 8
<b>Description:</b> 0.040	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 06Sep22
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 9/6/2022 12:36:14 PM
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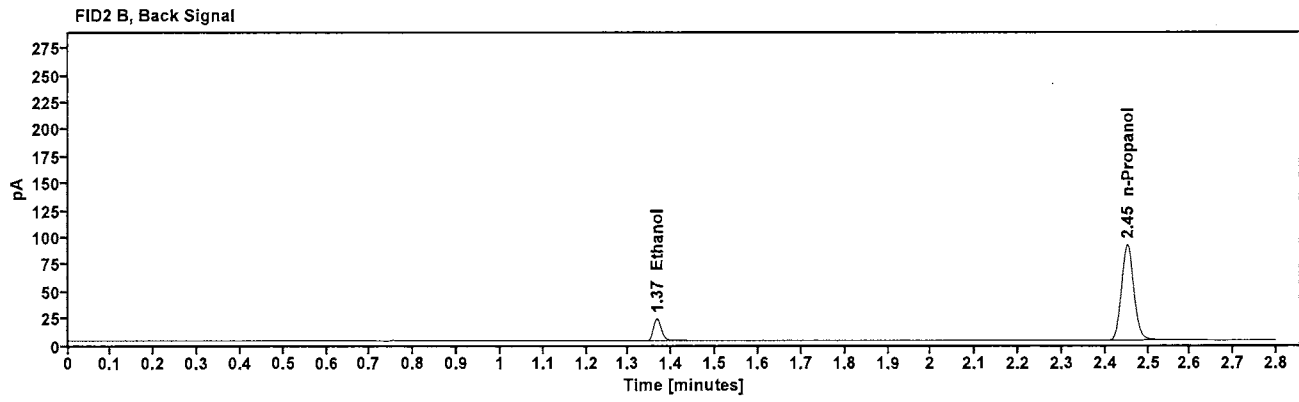
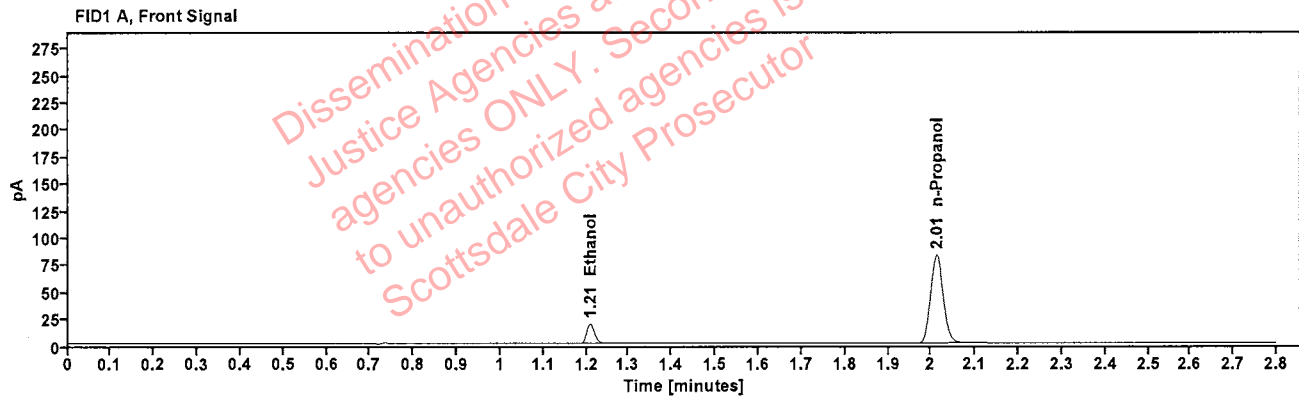


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0413	1.209	23.082
n-Propanol	-----	2.012	162.618

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

Compound	Time (min)	Peak Area
Ethanol	1.366	25.426
n-Propanol	2.452	178.636

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 4110320133/8	<b>Vial:</b> 9	
<b>Description:</b> 0.199	<b>LIMS ID:</b>	
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 06Sep22	
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 9/6/2022 12:40:14 PM	PB
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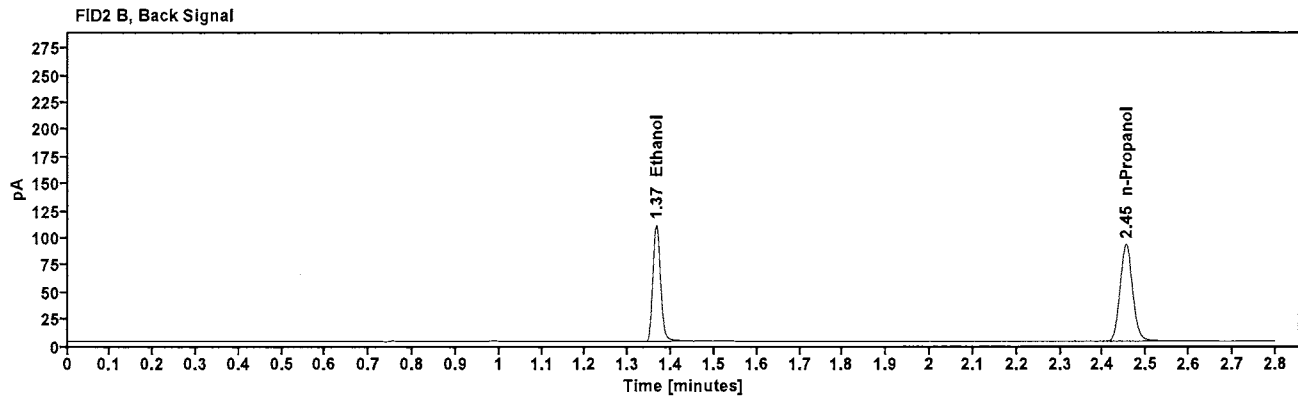
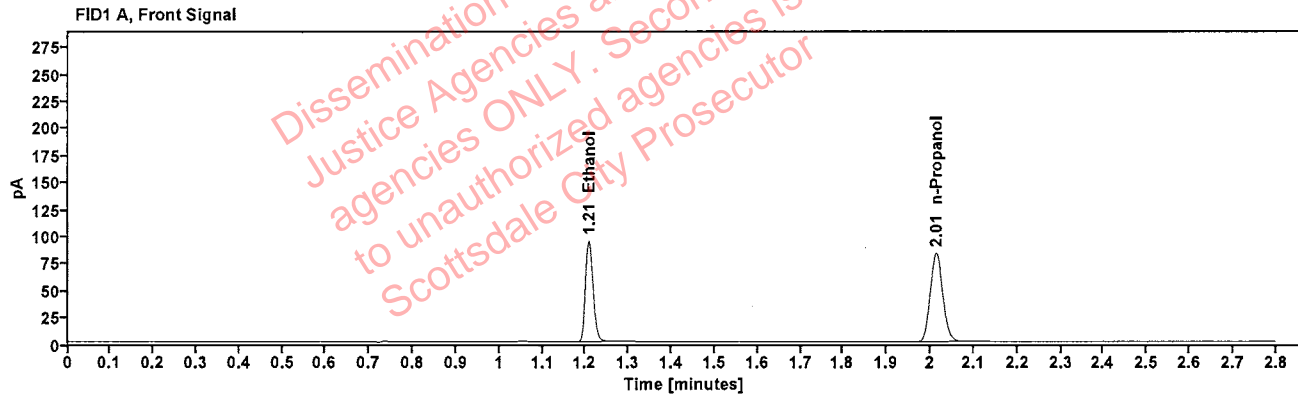


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2003	1.208	118.151
n-Propanol	-----	2.013	164.302

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

Compound	Time (min)	Peak Area
Ethanol	1.366	131.252
n-Propanol	2.453	180.790

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	BLANK1	<b>Vial:</b>	11
<b>Description:</b>	BLANK1	<b>LIMS ID:</b>	BLANK1
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 12:48:14 PM
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PB

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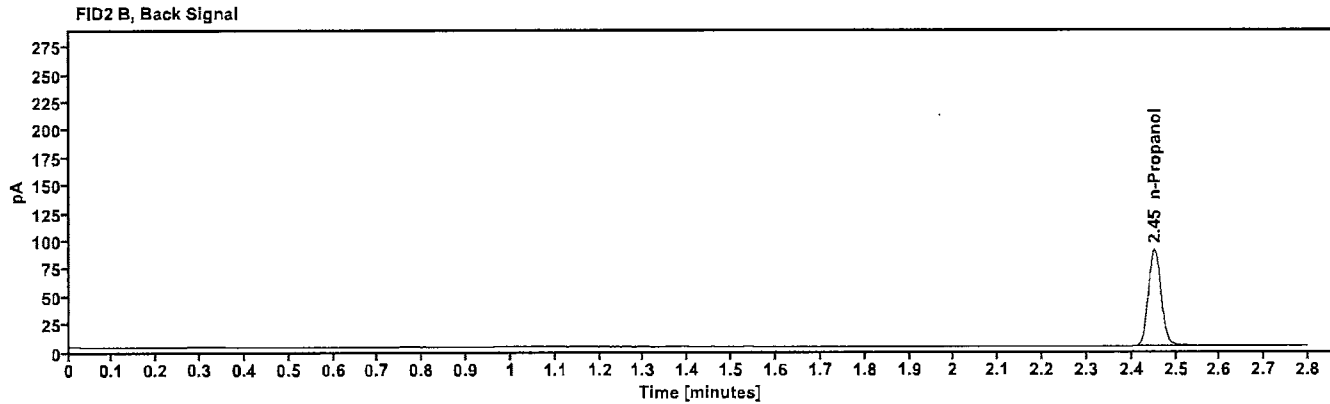
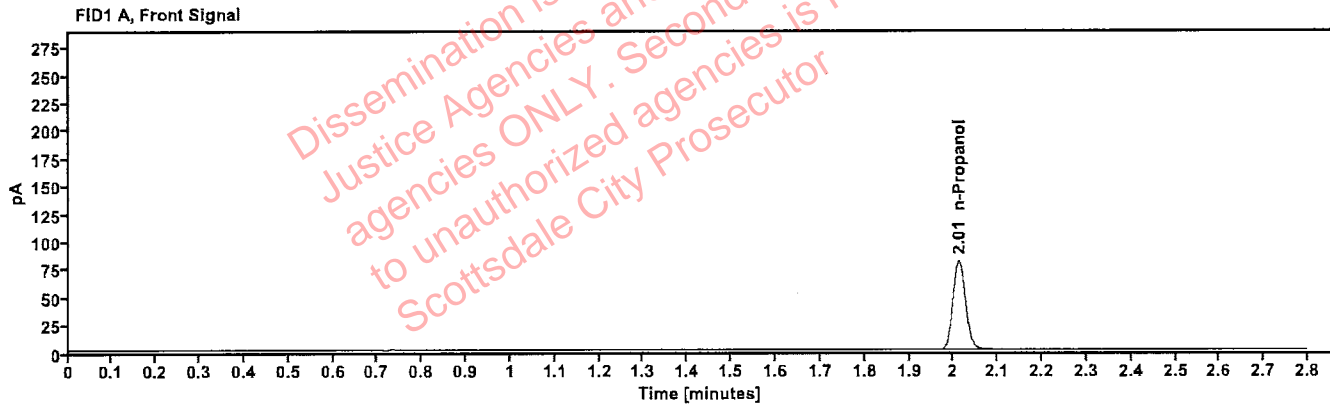


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.012	160.151

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

Compound	Time (min)	Peak Area
n-Propanol	2.451	176.991

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	BLANK2	<b>Vial:</b>	12
<b>Description:</b>	BLANK2	<b>LIMS ID:</b>	BLANK2
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 12:52:13 PM
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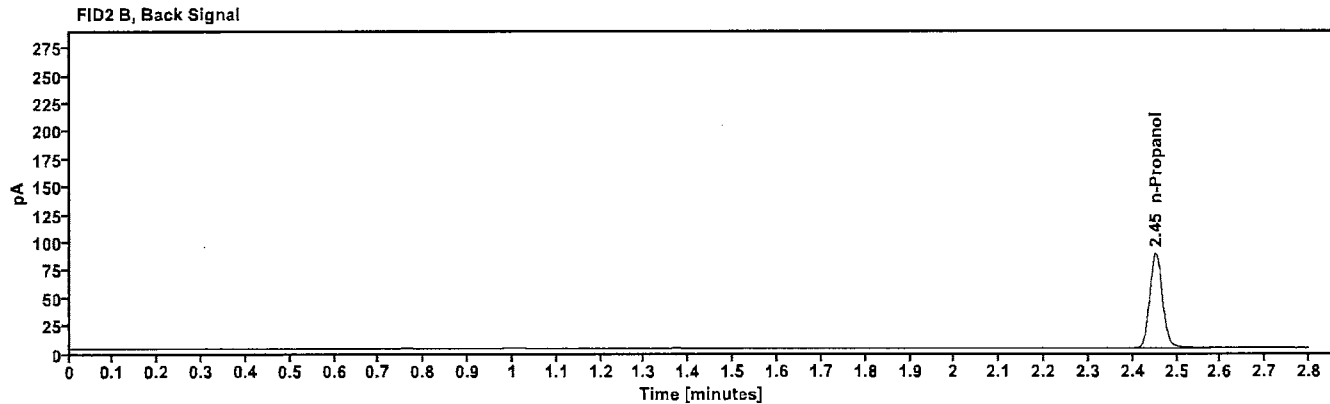
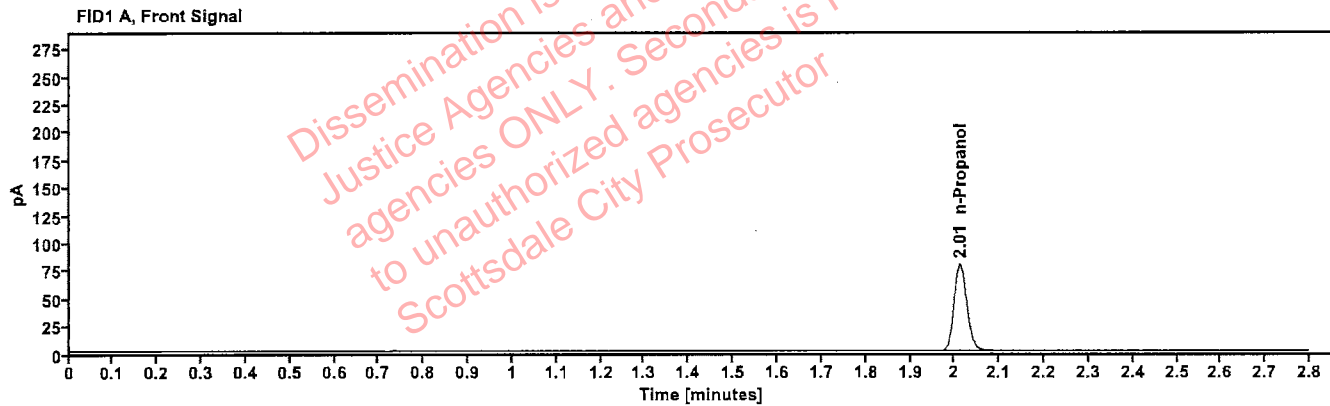


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	---	2.012	156.471

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

Compound	Time (min)	Peak Area
n-Propanol	2.452	173.253

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	BLANK3	<b>Vial:</b>	14
<b>Description:</b>	BLANK3	<b>LIMS ID:</b>	BLANK3
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 1:00:28 PM
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JPB

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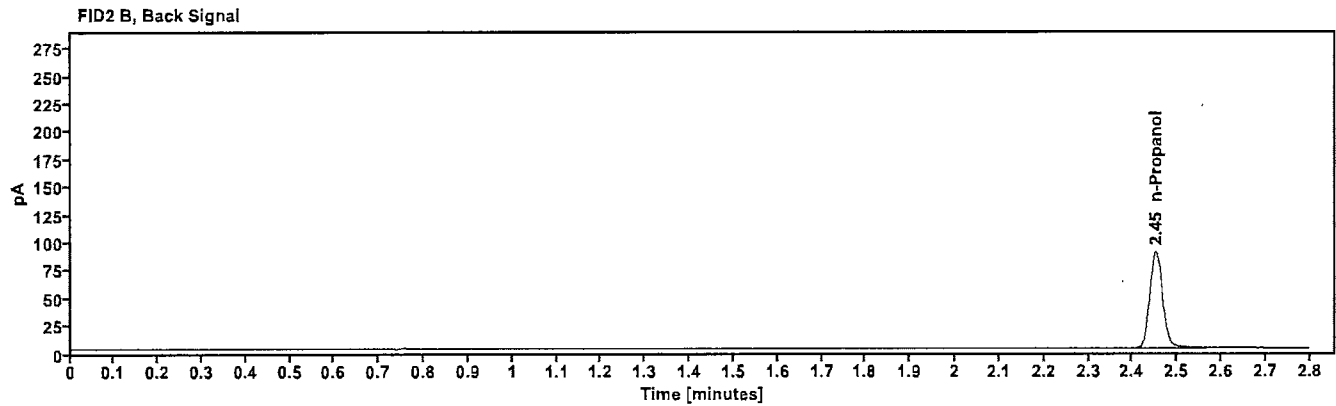
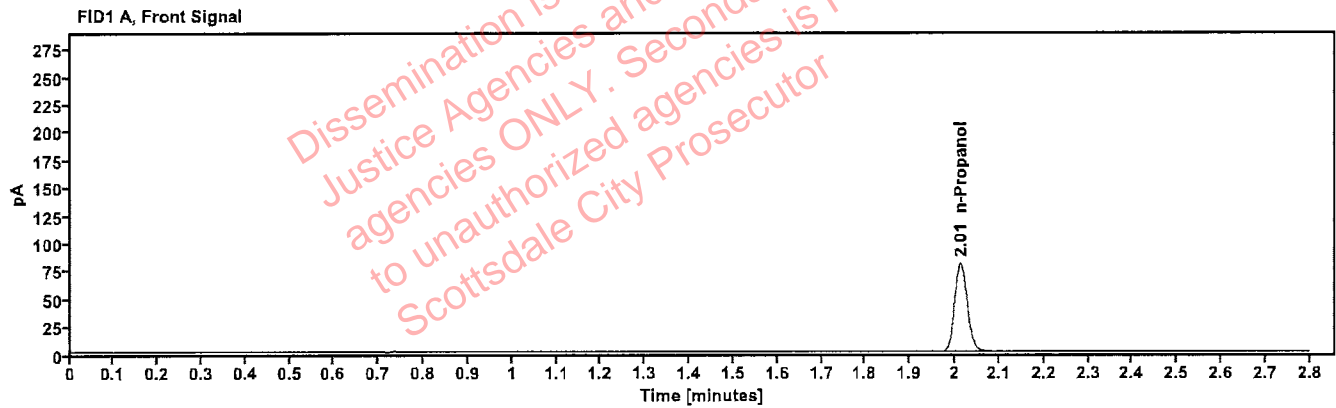


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	---	2.012	159.640

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

Compound	Time (min)	Peak Area
n-Propanol	2.452	176.458

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	BLANK4	<b>Vial:</b>	15
<b>Description:</b>	BLANK4	<b>LIMS ID:</b>	BLANK4
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 1:04:29 PM
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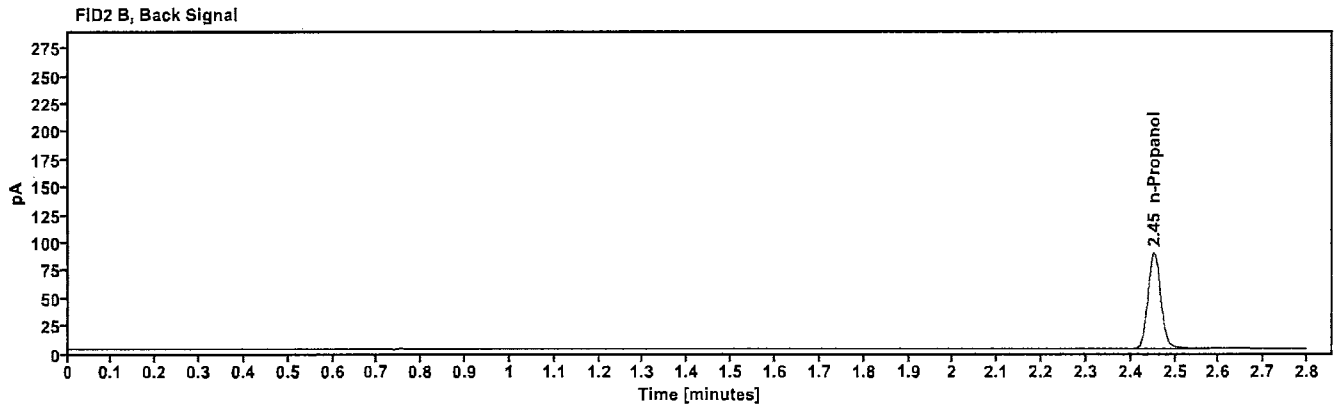
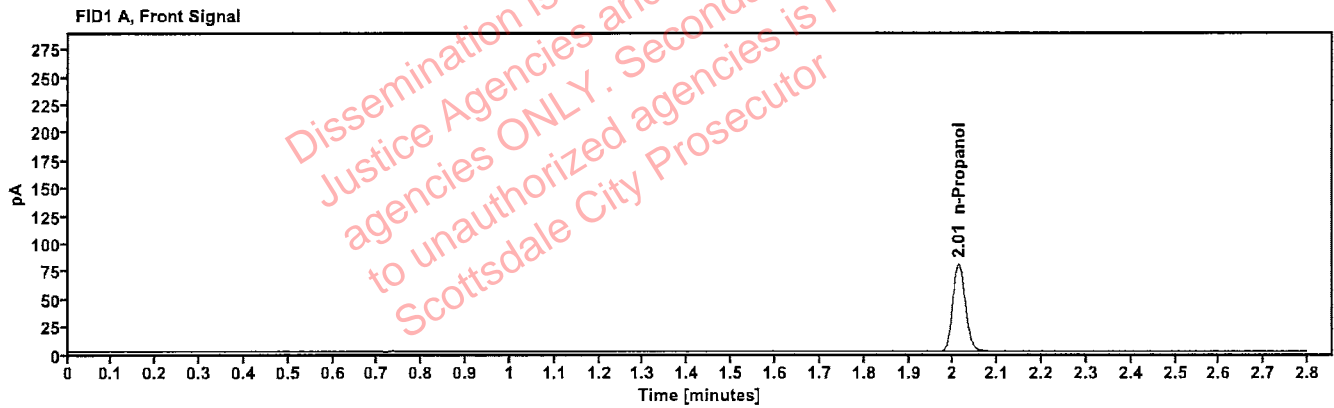


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	----	2.012	158.566

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

Compound	Time (min)	Peak Area
n-Propanol	2.452	175.492

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 11092018-A	<b>Vial:</b> 16	
<b>Description:</b> 0.400	<b>LIMS ID:</b>	
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 06Sep22	
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 9/6/2022 1:08:28 PM	YB
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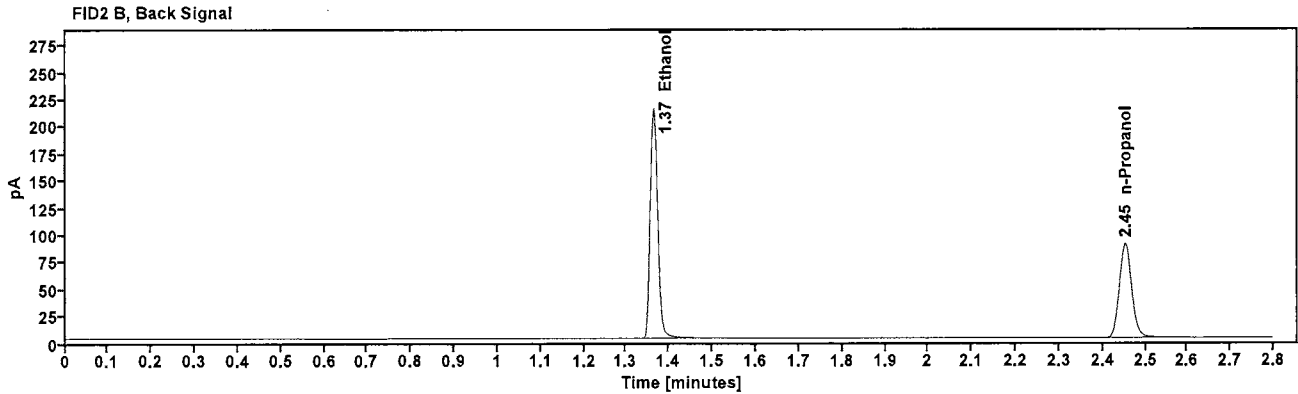
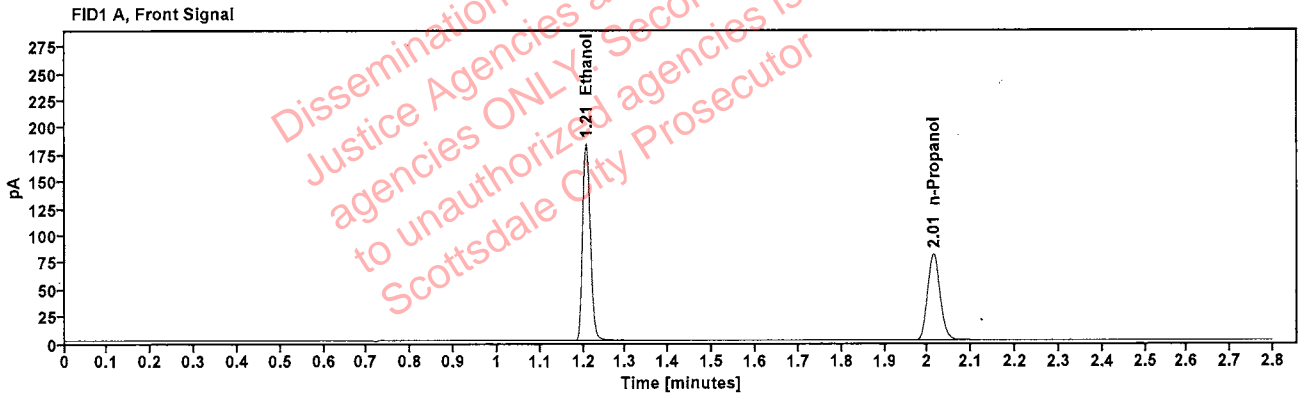


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3990	1.207	229.962
n-Propanol	-----	2.013	159.633

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

Compound	Time (min)	Peak Area
Ethanol	1.365	258.393
n-Propanol	2.453	176.612



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 14082019-B	<b>Vial:</b> 17
<b>Description:</b> 0.040	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 06Sep22
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 9/6/2022 1:12:29 PM
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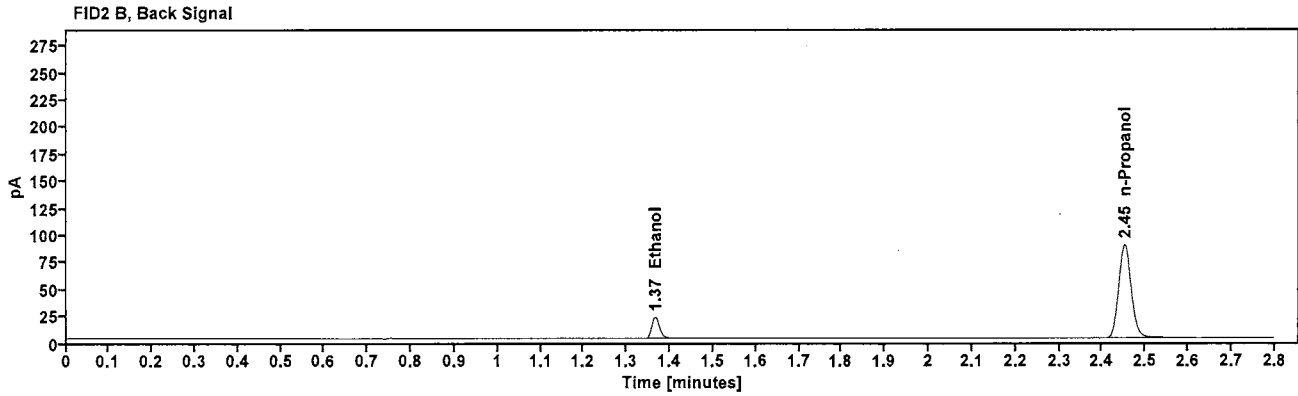
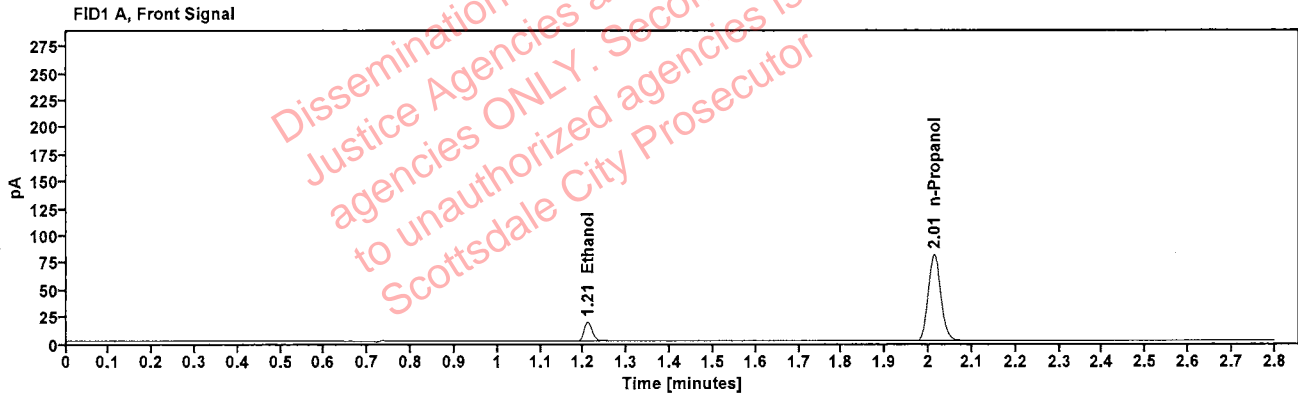


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0414	1.209	22.622
n-Propanol	-----	2.012	159.109

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

Compound	Time (min)	Peak Area
Ethanol	1.366	25.104
n-Propanol	2.452	176.155

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	4110320133/8	<b>Vial:</b>	18
<b>Description:</b>	0.199	<b>LIMS ID:</b>	
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 1:16:29 PM
<b>Data file:</b>	C:\Chem32\1\Data\06Sep22\18.D	<b>Analyst:</b>	Brooke <span style="float: right;">JB</span>

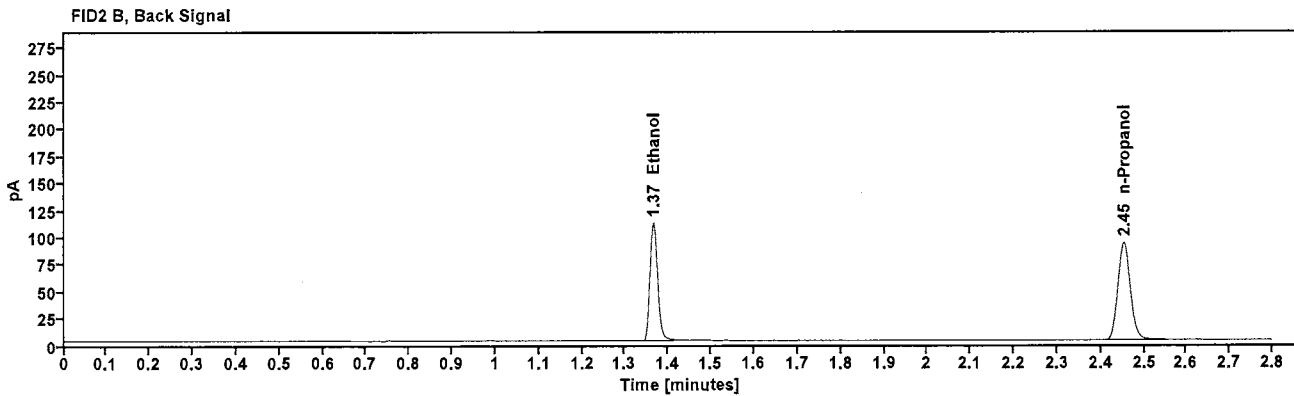
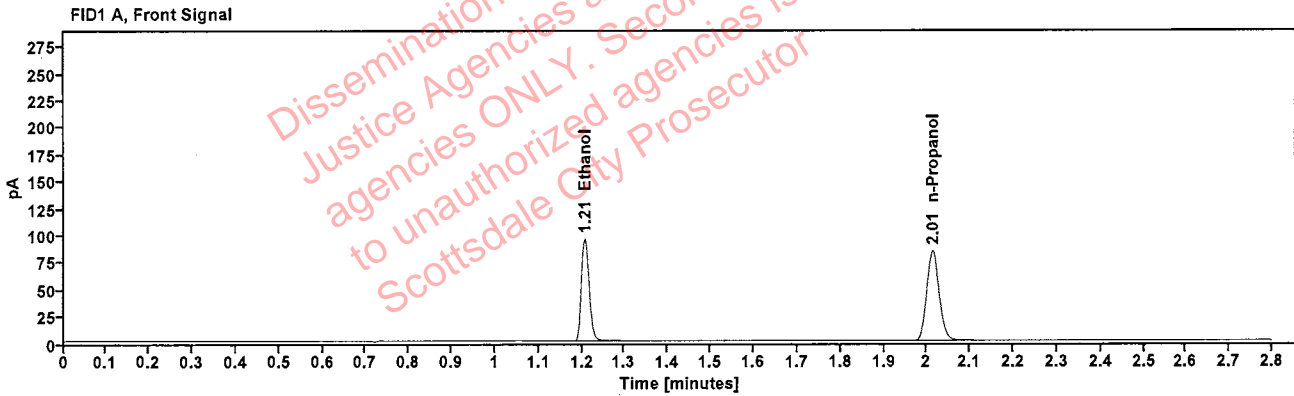


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2012	1.208	119.516
n-Propanol	-----	2.013	165.435

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

Compound	Time (min)	Peak Area
Ethanol	1.366	134.115
n-Propanol	2.453	183.234

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b>	101921WB	<b>Vial:</b>	19
<b>Description:</b>	Negative	<b>LIMS ID:</b>	
<b>Method:</b>	ethanol quant.M	<b>Sequence:</b>	06Sep22
<b>Instrument:</b>	US14173023 CN14160045	<b>Injection date:</b>	9/6/2022 1:20:44 PM
<b>Data file:</b>	C:\Chem32\1\Data\06Sep22\19.D	<b>Analyst:</b>	Brooke <span style="float: right;">PB</span>

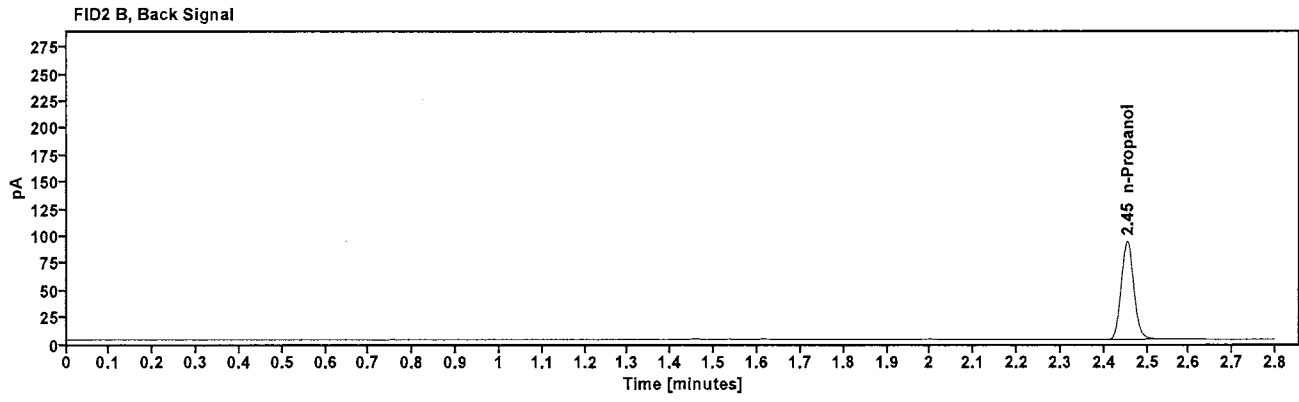
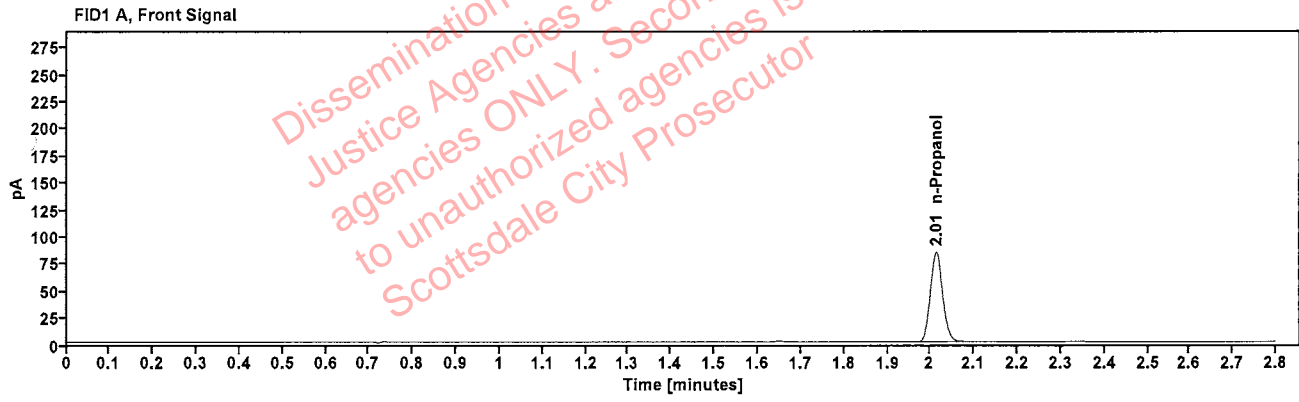


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.013	165.664

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

Compound	Time (min)	Peak Area
n-Propanol	2.454	184.053

# Sequence Summary

Sequence name: 06Sep22      Instrument: US14173023 CN14160045      Analyst: Brooke

RB

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	070622AQ	Negative	Control		ethanol quant.M
6	050721MIX	Volatiles mix	Control		ethanol quant.M
7	11092018-A	0.400	Control		ethanol quant.M
8	14082019-B	0.040	Control		ethanol quant.M
9	4110320133/8	0.199	Control		ethanol quant.M
10	1434910		Sample		ethanol quant.M
11	BLANK1	BLANK1	Sample	BLANK1	ethanol quant.M
12	BLANK2	BLANK2	Sample	BLANK2	ethanol quant.M
13	1434910		Sample		ethanol quant.M
14	BLANK3	BLANK3	Sample	BLANK3	ethanol quant.M
15	BLANK4	BLANK4	Sample	BLANK4	ethanol quant.M
16	11092018-A	0.400	Control		ethanol quant.M
17	14082019-B	0.040	Control		ethanol quant.M
18	4110320133/8	0.199	Control		ethanol quant.M
19	101921WB	Negative	Control		ethanol quant.M

# Scottsdale Police Department Crime Laboratory

## Summary of Cases

RS

SEQUENCE NAME: 06Sep22

ANALYST: Brooke

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 13	0.1751	0.1762	0.17565	0.31	0.00055

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

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

Scottsdale Forensic Lab  
Blood Alcohol Pipetting Log

ANALYST: Brooke

SEQUENCE: 06Sep22

Instrument Position	Headspace Vial 1	Headspace Vial 2	Blood Tube	Barcode Match
Vials 10 and 13	1434910	1434910	1434910	Yes

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

Sample:	1434910	Vial:	10
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	06Sep22
Instrument:	US14173023 CN14160045	Injection date:	9/6/2022 12:44:14 PM
Data file:	C:\Chem32\1\Data\06Sep22\10.D	Analyst:	Brooke

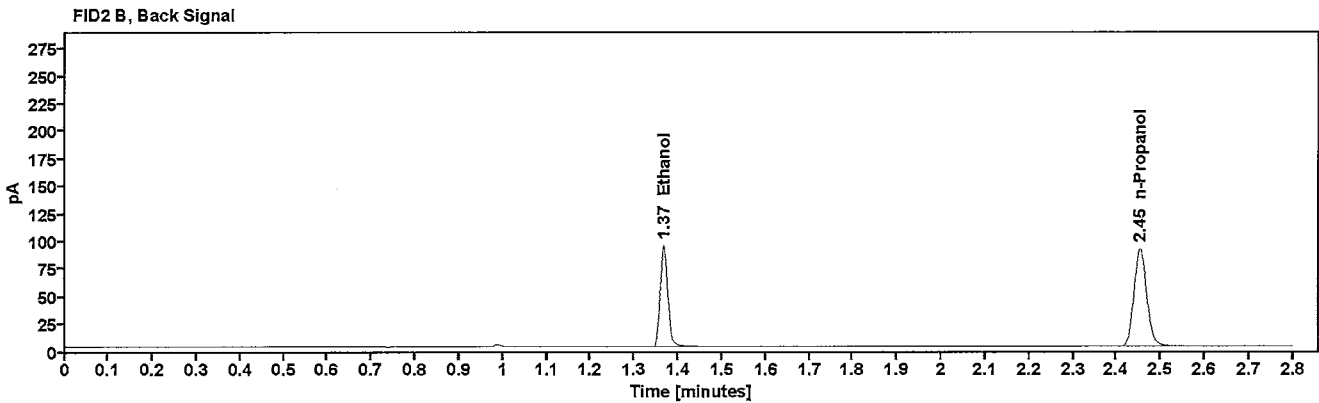
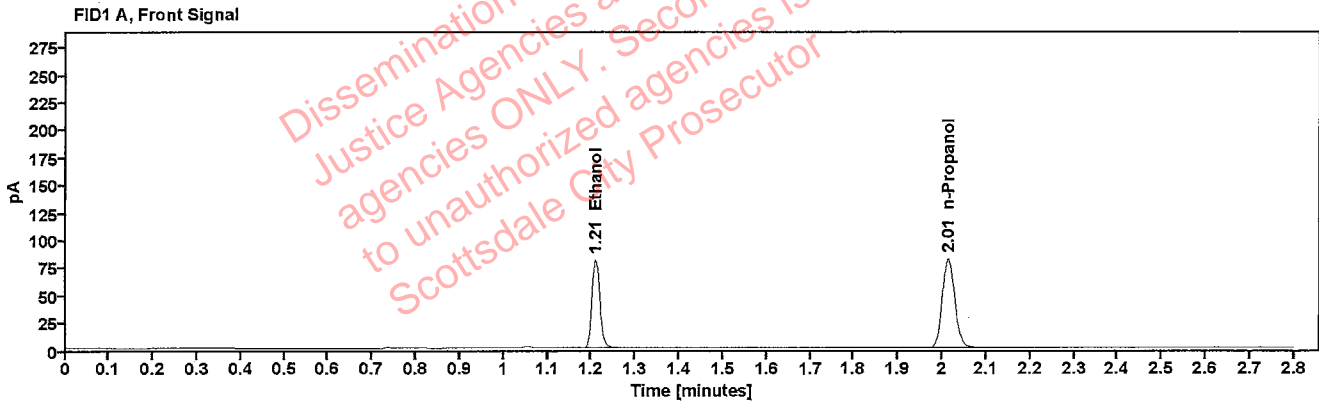


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1751	1.208	101.597
n-Propanol	-----	2.013	161.811

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

Compound	Time (min)	Peak Area
Ethanol	1.365	112.501
n-Propanol	2.453	179.250

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1434910	Vial:	13
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	06Sep22
Instrument:	US14173023 CN14160045	Injection date:	9/6/2022 12:56:29 PM
Data file:	C:\Chem32\1\Data\06Sep22\13.D	Analyst:	Brooke

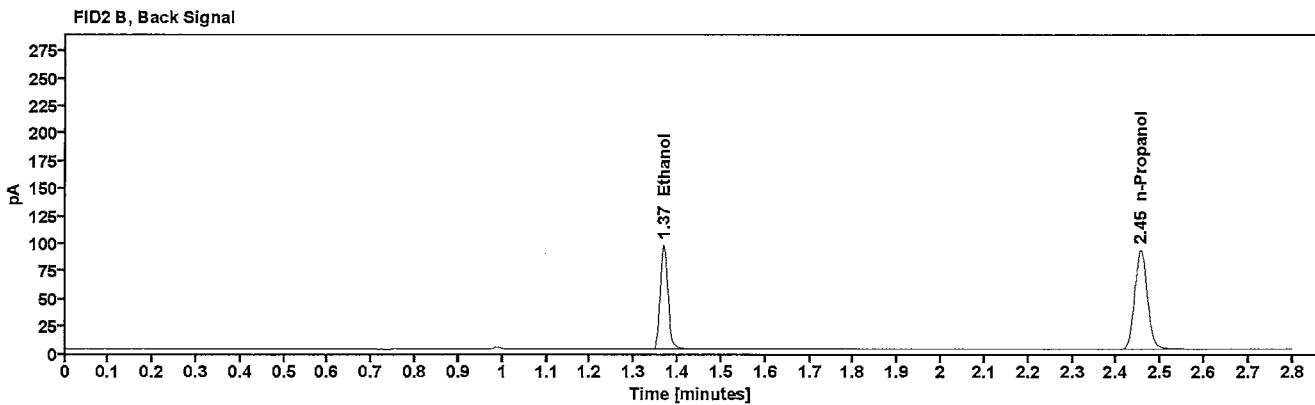
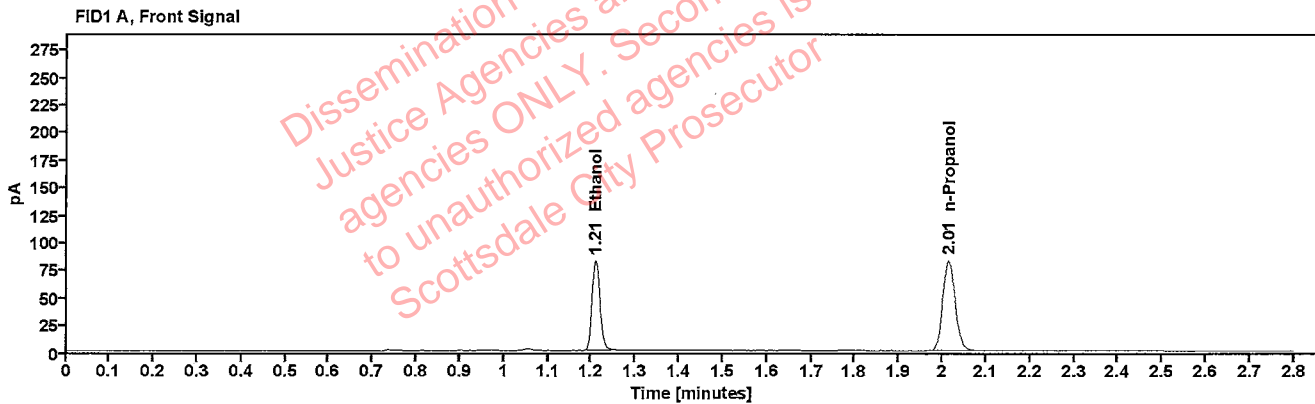


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1762	1.209	103.631
n-Propanol	-----	2.014	164.045

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

Compound	Time (min)	Peak Area
Ethanol	1.367	115.230
n-Propanol	2.454	181.529