

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 09/08/2021 SEQUENCE NAME 08Sep21

**EQUIPMENT**

Pipettor  Hamilton ML600EH7497  Hamilton ML600GJ10749  
 Gas Chromatograph  Agilent US14173023

**INSTRUMENT CALIBRATION**

Vial 1 0.02 calibrator Lot FN06141806 Coefficient of determination (r<sup>2</sup>)  
 Vial 2 0.10 calibrator Lot FN05311902 0.99999  
 Vial 3 0.20 calibrator Lot FN05101903  
 Vial 4 0.40 calibrator Lot FN10051906

**CALIBRATION VERIFICATION AND RESOLUTION TEST**

<u>Vial</u>	<u>Sample</u>	<u>Expected result</u>	<u>Measured result</u>	<u>Manufacturer/lot</u>
5	Blank	Not detected	Not detected	SPD lab 071521AQ
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 050721MIX
7	Aqueous control	0.400 g/dL	0.401 g/dL	Lipomed 11092018-A
8	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 14082019-B
9	Blood control	0.200 g/dL	0.201 g/dL	ACQ 4101018274/9

**SUBJECT SAMPLES**

Subjects in the sequence 15 Subjects requiring reanalysis 15

**ADDITIONAL NOTES:** The run stopped at vial 11 since vial 17 would not load into the oven. There was a sticky residue on vial 17.

Run valid  Run invalid  Eike Canonico Analyst  
 Run valid  Run invalid  \_\_\_\_\_ Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

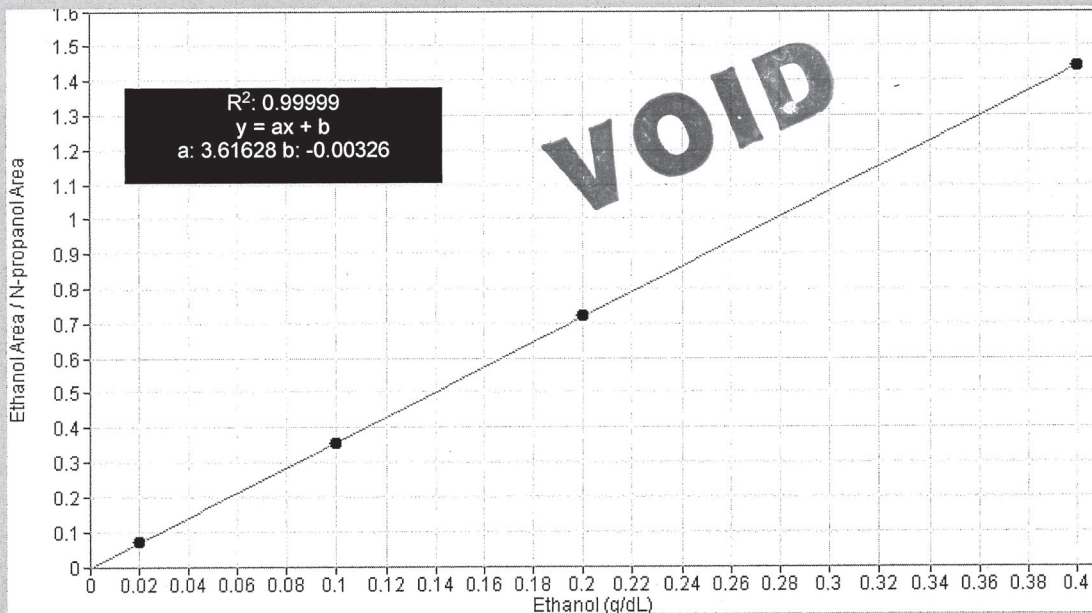
SEQUENCE NAME: 08Sep21

ANALYST: Canonico

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 071521AQ	5	negative	negative	-	-
0.400 11092018-A	7	0.401	0.400	0.25	0.001
0.040 14082019-B	8	0.040	0.040	0.00	0.000
0.200 4101018274/9	9	0.201	0.200	0.50	0.001
0.080 20012020-B	20	-	0.080	-	-
0.200 4101018274/9	31	-	0.200	-	-
0.080 20012020-B	42	-	0.080	-	-
0.400 11092018-A	51	-	0.400	-	-
0.040 14082019-B	52	-	0.040	-	-
0.200 4101018274/9	53	-	0.200	-	-
blank 111020WB	54	-	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.818	170.070	0.070
0.100	60.493	169.674	0.357
0.200	123.480	171.038	0.722
0.400	245.191	169.952	1.443

### Calibration Line



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	FN06141806	Vial:	1
Description:	0.020 calibrator	Sequence:	08Sep21
Method:	ethanol quant.M	Injection date:	9/8/2021 12:08:46 PM
Instrument:	US14173023 CN14160045	Analyst:	Canonico
Data file:	C:\Chem32\1\Data\08Sep21\1.D		

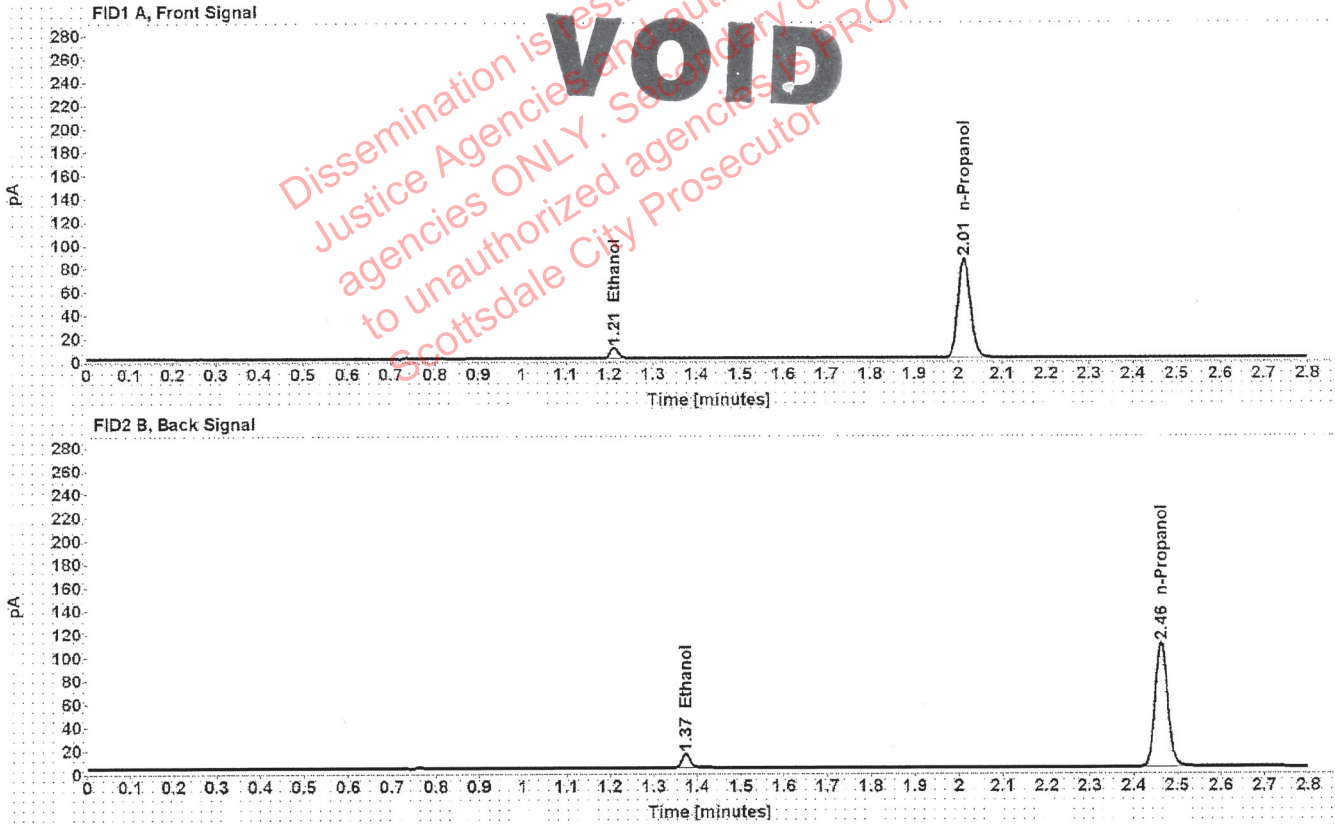


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.211	11.818
n-Propanol	2.014	170.070

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

Compound	Time (min)	Peak Area
Ethanol	1.373	14.917
n-Propanol	2.463	213.717



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	FN05311902	Vial:	2
Description:	0.100 calibrator	Sequence:	08Sep21
Method:	ethanol quant.M	Injection date:	9/8/2021 12:12:47 PM
Instrument:	US14173023 CN14160045	Analyst:	Canonico
Data file:	C:\Chem32\1\Data\08Sep21\2.D		

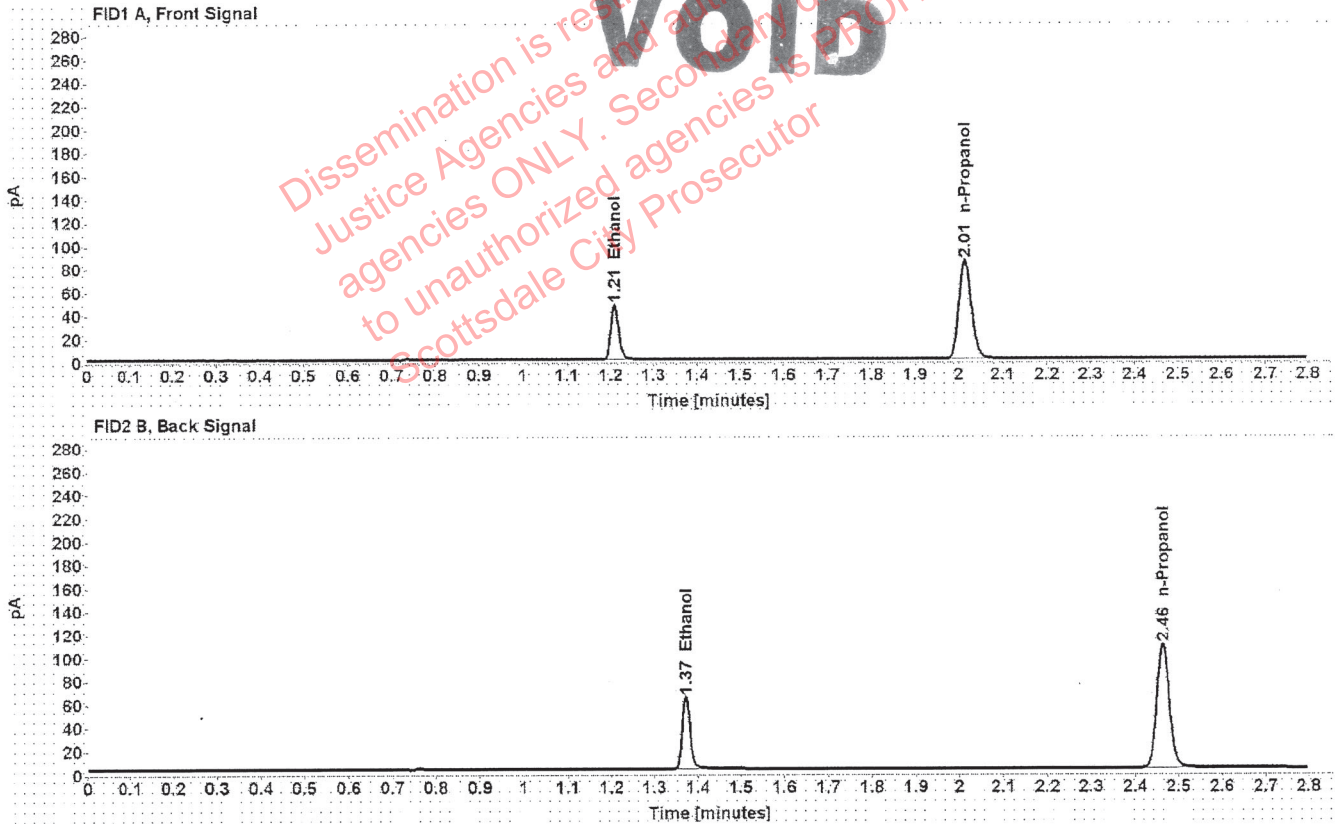


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	60.493
n-Propanol	2.014	169.674

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

Compound	Time (min)	Peak Area
Ethanol	1.372	76.206
n-Propanol	2.464	212.892



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN05101903	Vial: 3
Description: 0.200 calibrator	Sequence: 08Sep21
Method: ethanol quant.M	Injection date: 9/8/2021 12:16:46 PM
Instrument: US14173023 CN14160045	Analyst: Canonico
Data file: C:\Chem32\1\Data\08Sep21\3.D	

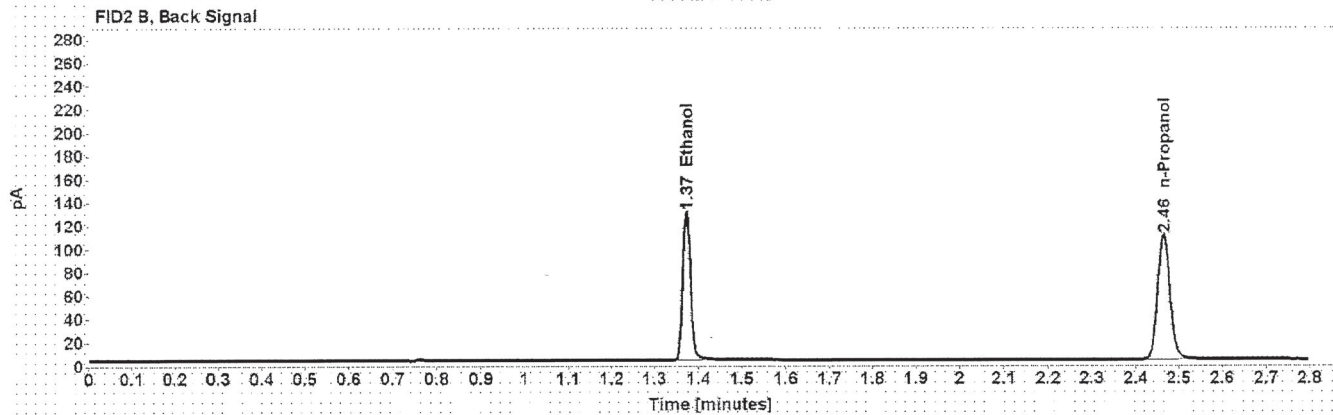
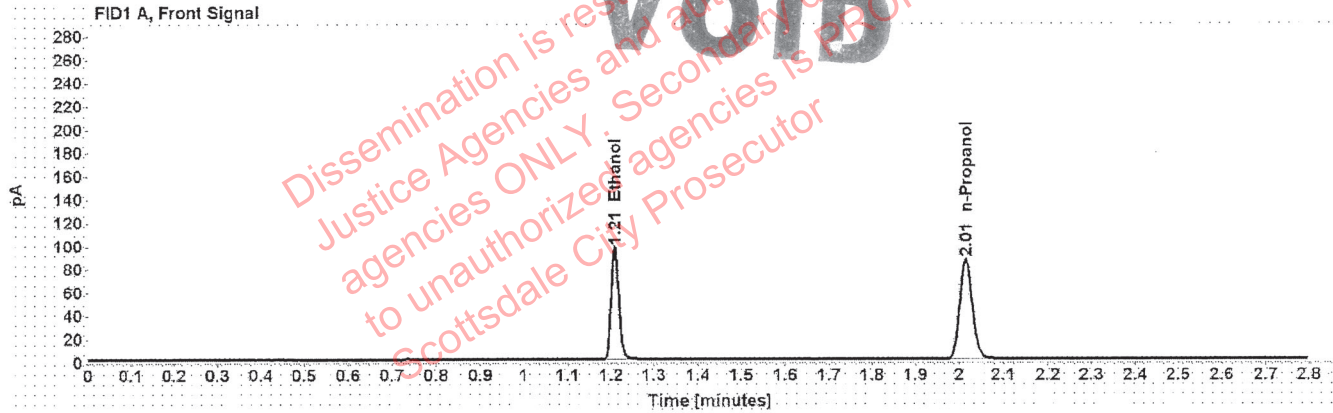


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	123.480
n-Propanol	2.015	171.038

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

Compound	Time (min)	Peak Area
Ethanol	1.373	155.944
n-Propanol	2.465	214.523

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN10051906	Vial: 4
Description: 0.400 calibrator	Sequence: 08Sep21
Method: ethanol quant.M	Injection date: 9/8/2021 12:20:46 PM
Instrument: US14173023 CN14160045	Analyst: Canonico
Data file: C:\Chem32\1\Data\08Sep21\4.D	

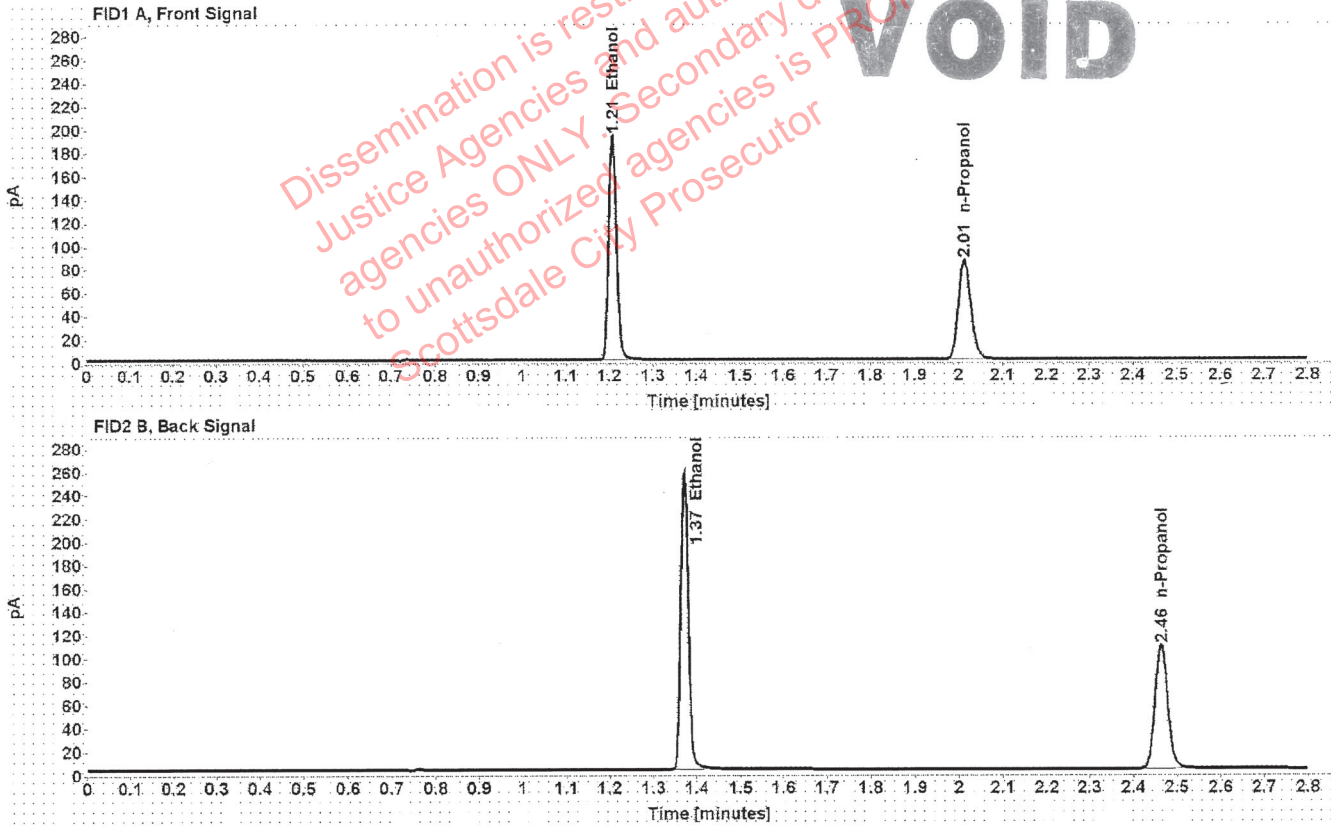


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	245.191
n-Propanol	2.014	169.952

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

Compound	Time (min)	Peak Area
Ethanol	1.371	309.998
n-Propanol	2.464	212.901

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 071521AQ	Vial: 5
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 08Sep21
Instrument: US14173023 CN14160045	Injection date: 9/8/2021 12:24:46 PM
Data file: C:\Chem32\1\Data\08Sep21\5.D	Analyst: Canonico

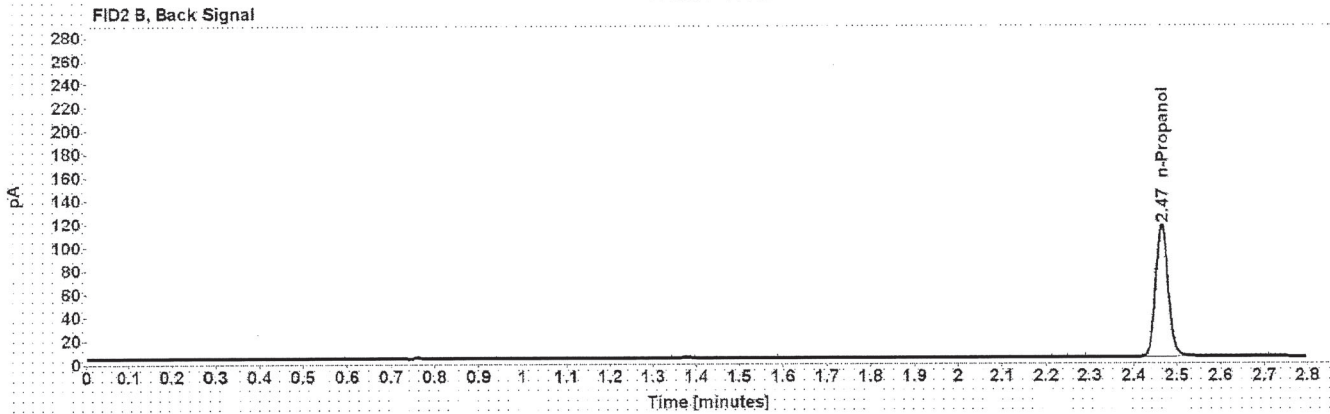


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.015	181.720

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

Compound	Time (min)	Peak Area
n-Propanol	2.465	227.559



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 050721MIX	Vial: 6
Description: Volatiles mix	LIMS ID:
Method: ethanol quant.M	Sequence: 08Sep21
Instrument: US14173023 CN14160045	Injection date: 9/8/2021 12:28:46 PM
Data file: C:\Chem32\1\Data\08Sep21\6.D	Analyst: Canonico

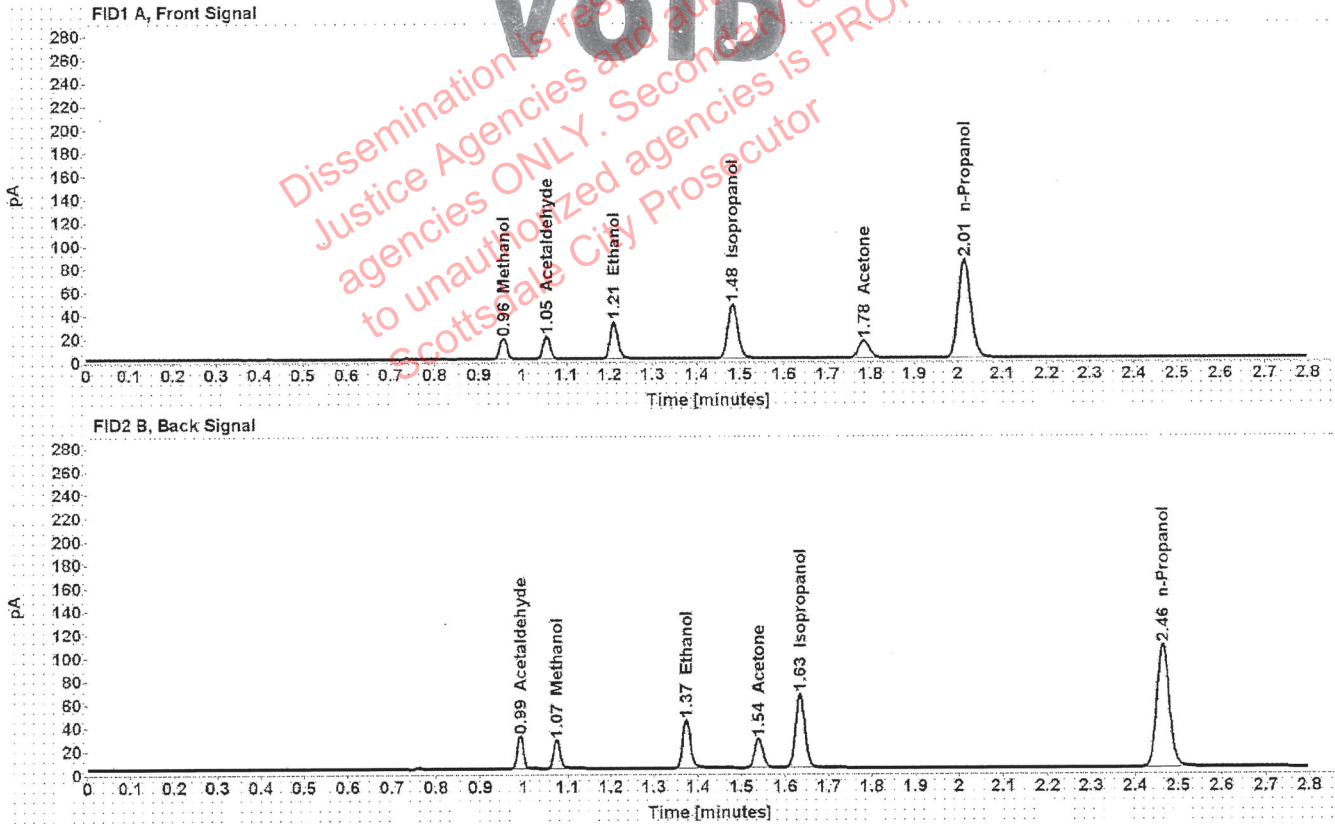


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.956	20.038
Acetaldehyde	-----	1.054	21.242
>Ethanol	0.0675	1.210	40.647
Isopropanol	-----	1.483	74.436
Acetone	-----	1.784	25.962
n-Propanol	-----	2.015	168.739

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.992	27.482
Methanol	1.075	25.660
Ethanol	1.373	51.168
Acetone	1.539	32.636
Isopropanol	1.634	95.632
n-Propanol	2.464	211.388

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 11092018-A	Vial: 7
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 08Sep21
Instrument: US14173023 CN14160045	Injection date: 9/8/2021 12:33:01 PM
Data file: C:\Chem32\1\Data\08Sep21\7.D	Analyst: Canonico

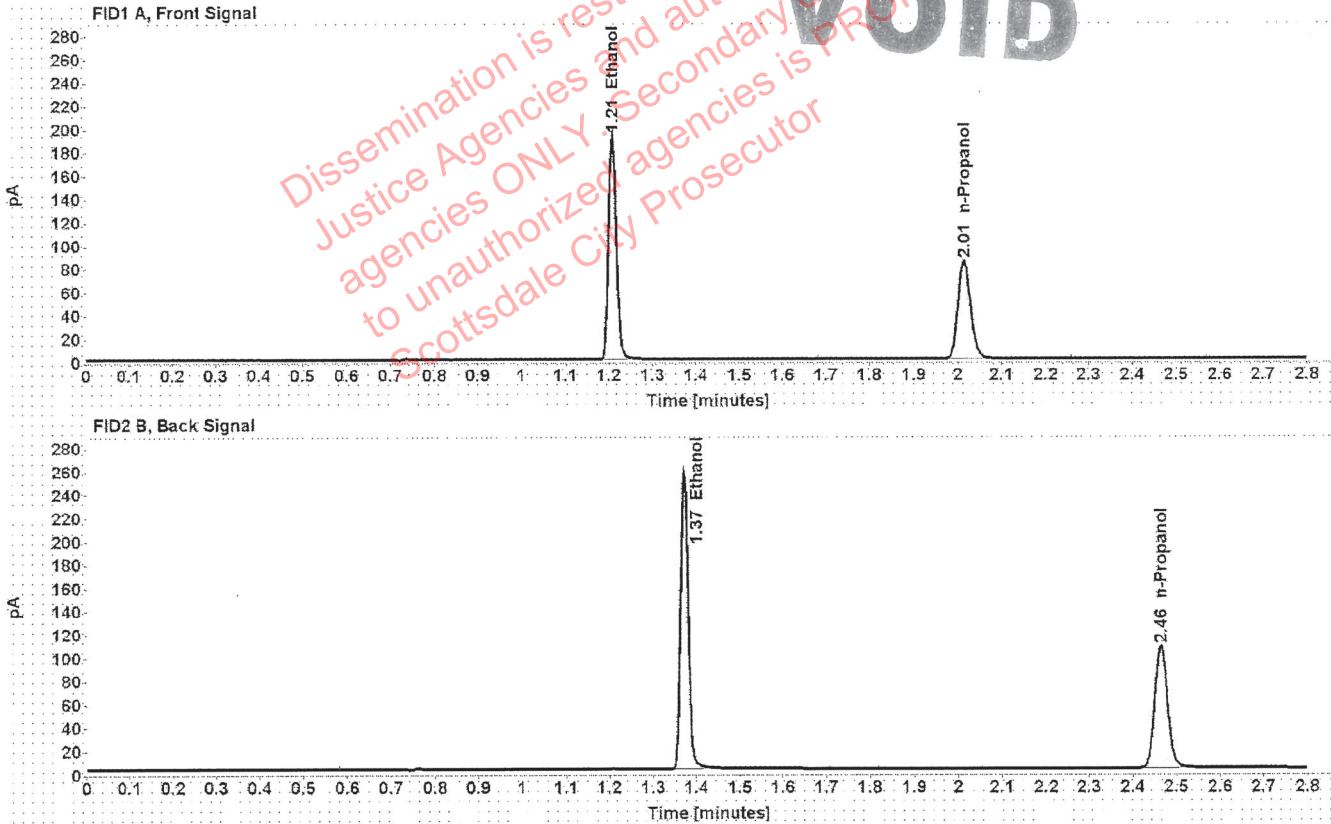


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4013	1.208	244.600
n-Propanol	-----	2.015	168.910

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

Compound	Time (min)	Peak Area
Ethanol	1.372	308.807
n-Propanol	2.464	211.800

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-B	Vial: 8
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 08Sep21
Instrument: US14173023 CN14160045	Injection date: 9/8/2021 12:37:01 PM
Data file: C:\Chem32\1\Data\08Sep21\8.D	Analyst: Canonico

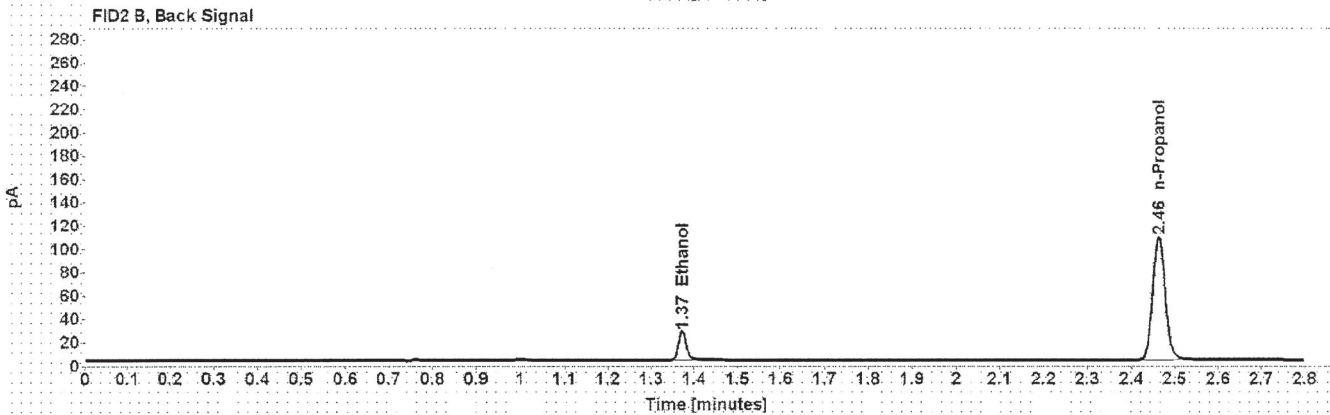
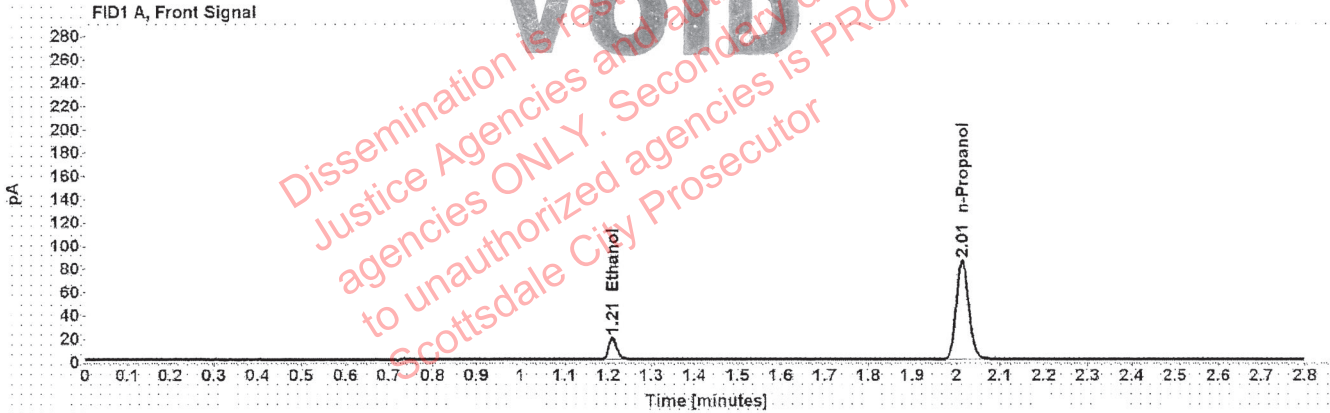


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0402	1.210	24.176
n-Propanol	-----	2.014	169.953

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

Compound	Time (min)	Peak Area
Ethanol	1.372	30.312
n-Propanol	2.463	213.029



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 4101018274/9	Vial: 9
Description: 0.200	LIMS ID:
Method: ethanol quant.M	Sequence: 08Sep21
Instrument: US14173023 CN14160045	Injection date: 9/8/2021 12:41:01 PM
Data file: C:\Chem32\1\Data\08Sep21\9.D	Analyst: Canonico

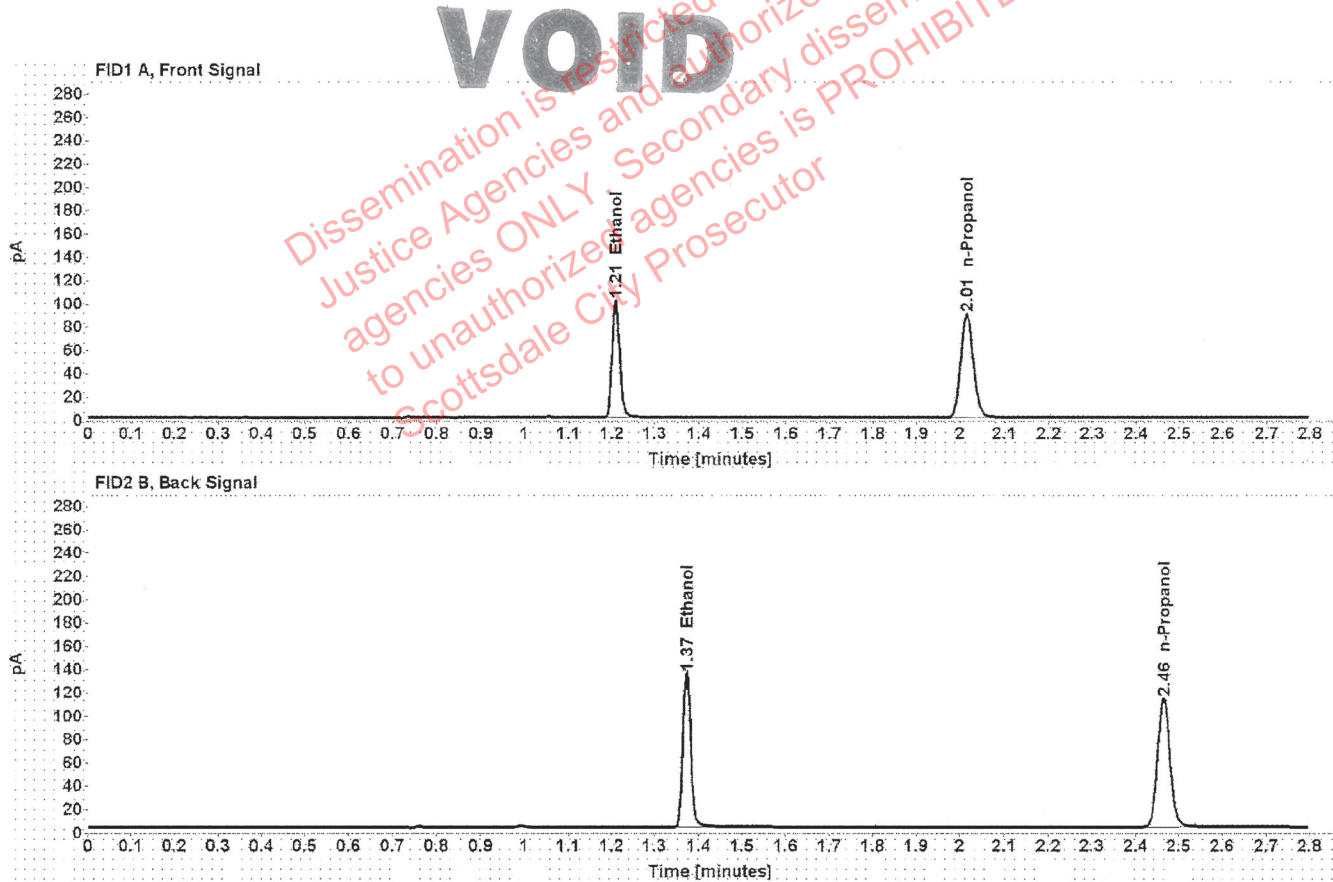


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2018	1.209	128.657
n-Propanol	-----	2.015	177.113

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

Compound	Time (min)	Peak Area
Ethanol	1.373	162.735
n-Propanol	2.465	222.296





# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	20001LJ	Vial:	10
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	08Sep21
Instrument:	US14173023 CN14160045	Injection date:	9/8/2021 12:45:00 PM
Data file:	C:\Chem32\1\Data\08Sep21\10.D	Analyst:	Canonico

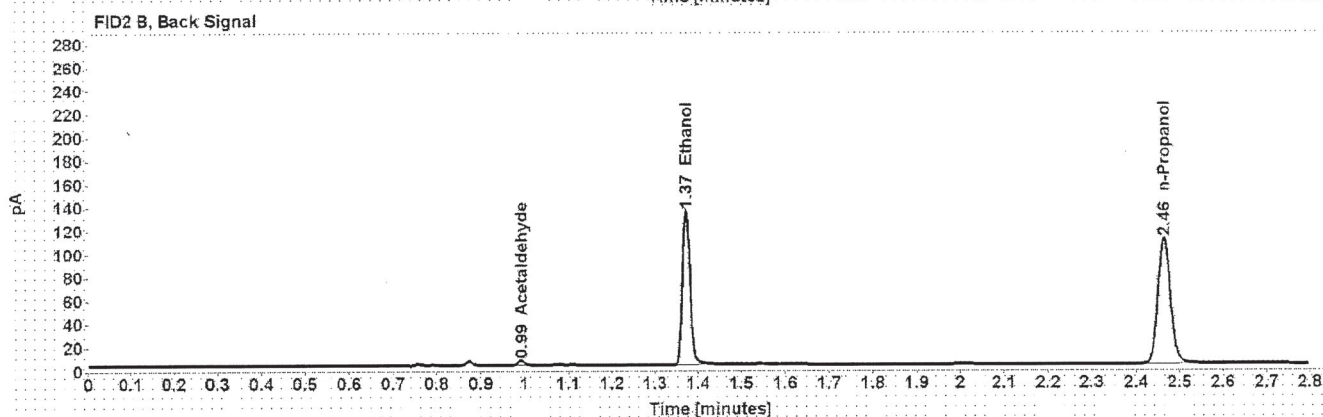
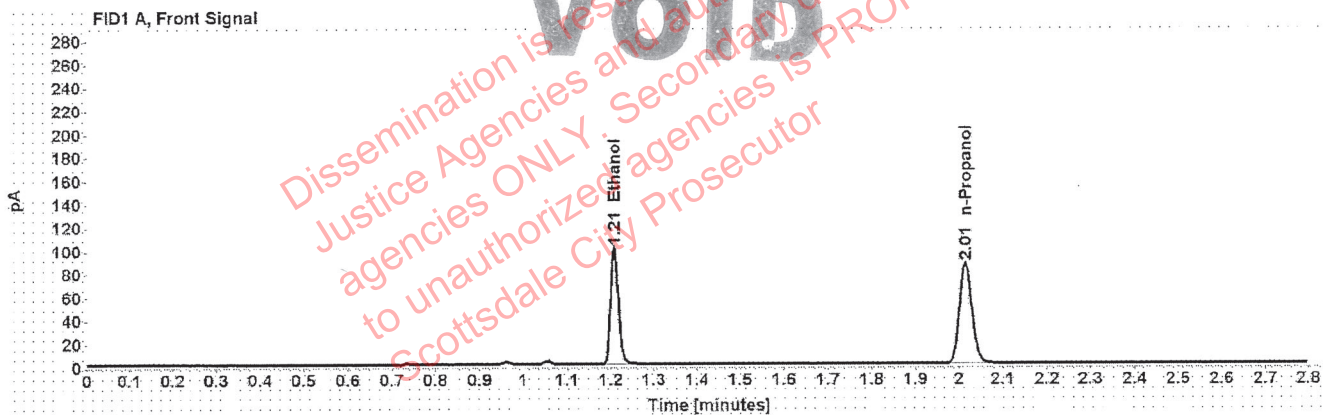


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2067	1.209	128.210
n-Propanol	-----	2.015	172.286

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.992	3.817
Ethanol	1.372	161.587
n-Propanol	2.464	216.441



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	20001LJ	Vial:	11
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	08Sep21
Instrument:	US14173023 CN14160045	Injection date:	9/8/2021 12:49:01 PM
Data file:	C:\Chem32\1\Data\08Sep21\11.D	Analyst:	Canonico

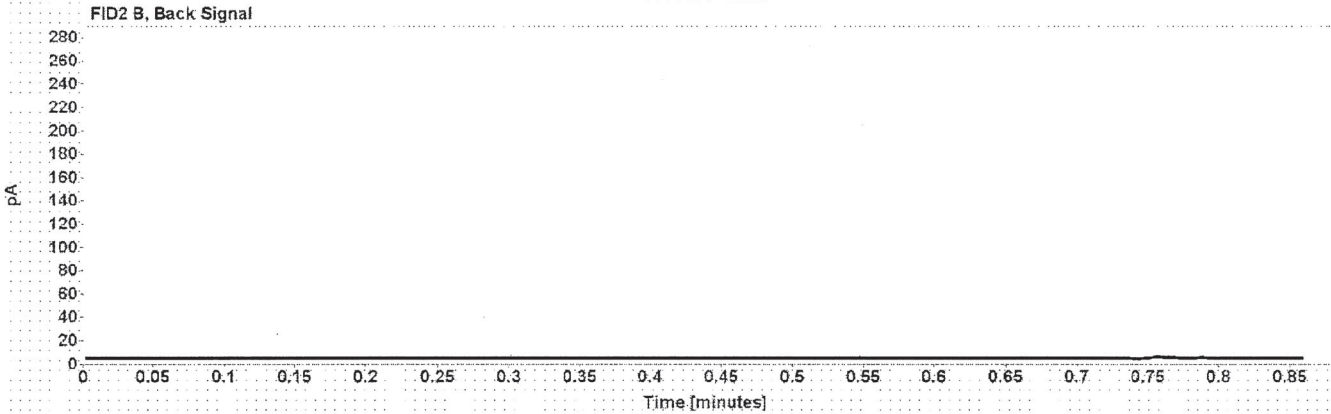


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area

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

Compound	Time (min)	Peak Area