

Raw data from analysis: LOT #19803

				Raw	Average	
Analyst: JJ	Bottle #22	sample #1	a	0.0975	0.0980	overall mean: 0.0974
			b	0.0986		
		sample #2	a	0.0964	0.0966	
			b	0.0969		
	Bottle #180	sample #1	a	0.0982	0.0985	
			b	0.0988		
		sample #2	a	0.0964	0.0965	
			b	0.0967		
Analyst: JG	Bottle #70	sample #1	a	0.0961	0.0961	overall mean: 0.0967
			b	0.0961		
		sample #2	a	0.0977	0.0975	
			b	0.0974		
	Bottle #235	sample #1	a	0.0966	0.0965	
			b	0.0965		
		sample #2	a	0.0967	0.0965	
			b	0.0963		

average of all raw data: **0.0971**

alcohol content conversion with 1.23: **0.078908**
 with 1.21: 0.080212

Target value from provider:
 0.0961 +/- 3% range 0.098983
 0.093217
 0.08 +/- 3% range 0.0824
 0.0776

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: BOT0235LOT19803-1

Analysis Date(s): 08 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0966	0.0965	0.0001	0.0965	0.0965
(g/100cc)	0.0967	0.0963	0.0004	0.0965	

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.096	0.091	0.101	0.005

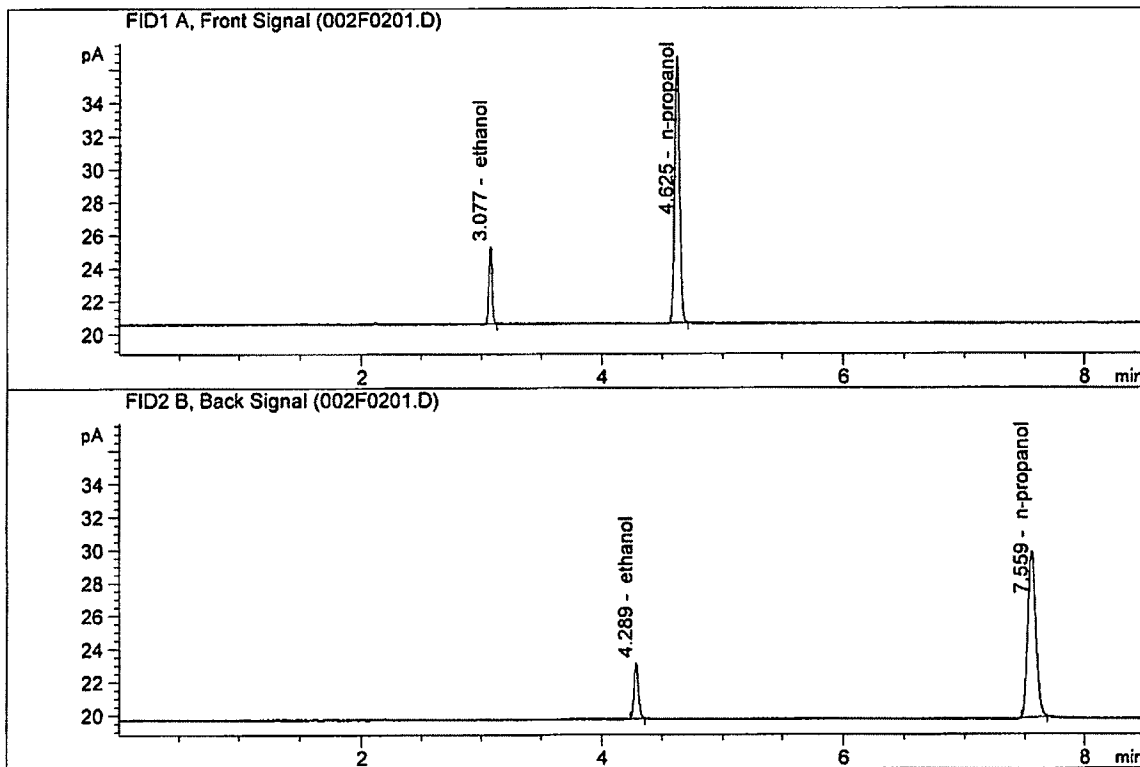
Reported Result	
0.096	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : BOT0235LOT19803-1-A
 Laboratory : Meridian
 Injection Date : Aug 8, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

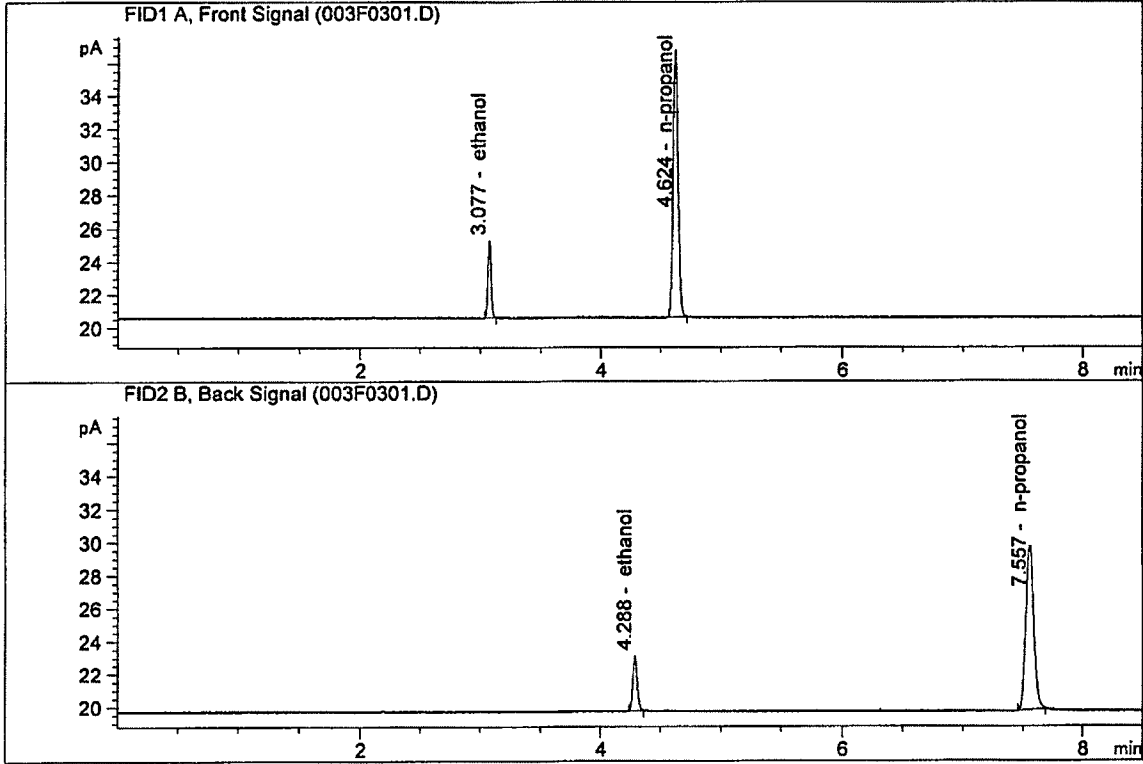


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.64367	0.0966	g/100cc
2.	Ethanol	Column 2:	9.01740	0.0965	g/100cc
3.	n-Propanol	Column 1:	45.90084	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.13917	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

JG

Sample Name : BOT0235LOT19803-1-B
 Laboratory : Meridian
 Injection Date : Aug 8, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.67203	0.0967	g/100cc
2.	Ethanol	Column 2:	9.00126	0.0963	g/100cc
3.	n-Propanol	Column 1:	46.01642	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.14540	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: BOT0070LOT19803-1

Analysis Date(s): 08 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0961	0.0961	0.0000	0.0961	0.0968	
(g/100cc)	0.0977	0.0974	0.0003	0.0975		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.096	0.091	0.101	0.005

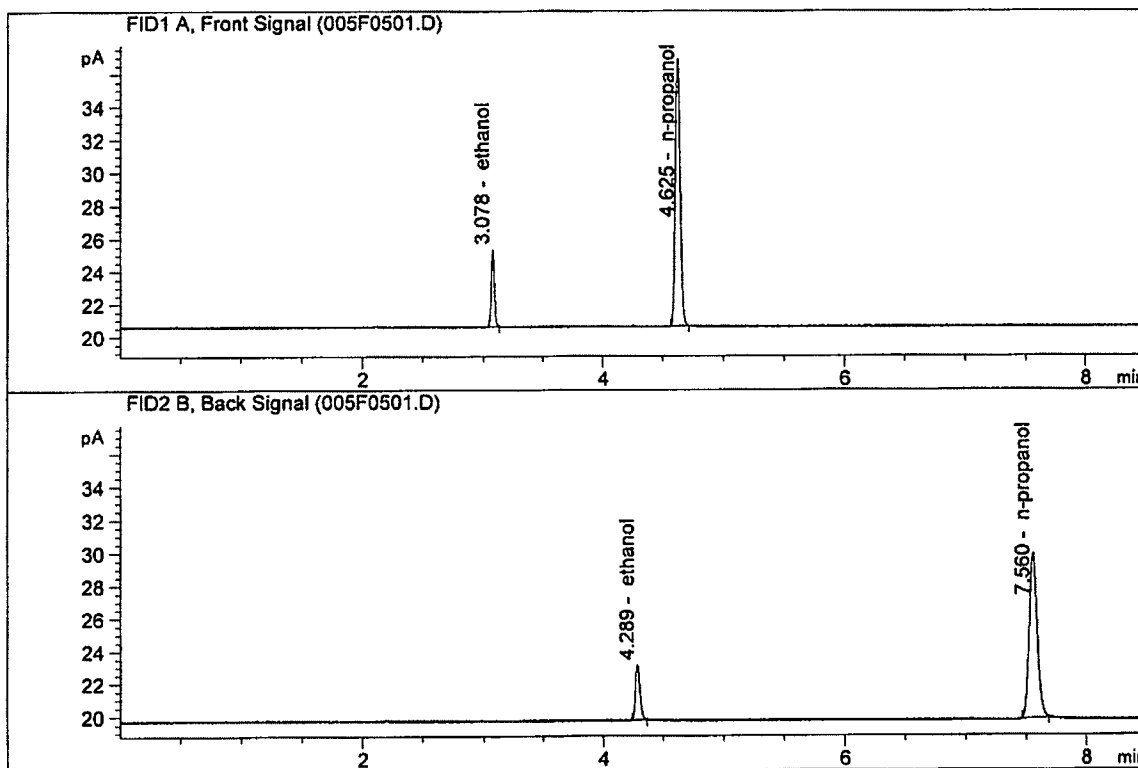
Reported Result	
0.096	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

56

Sample Name : BOT0070LOT19803-1-A
 Laboratory : Meridian
 Injection Date : Aug 8, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

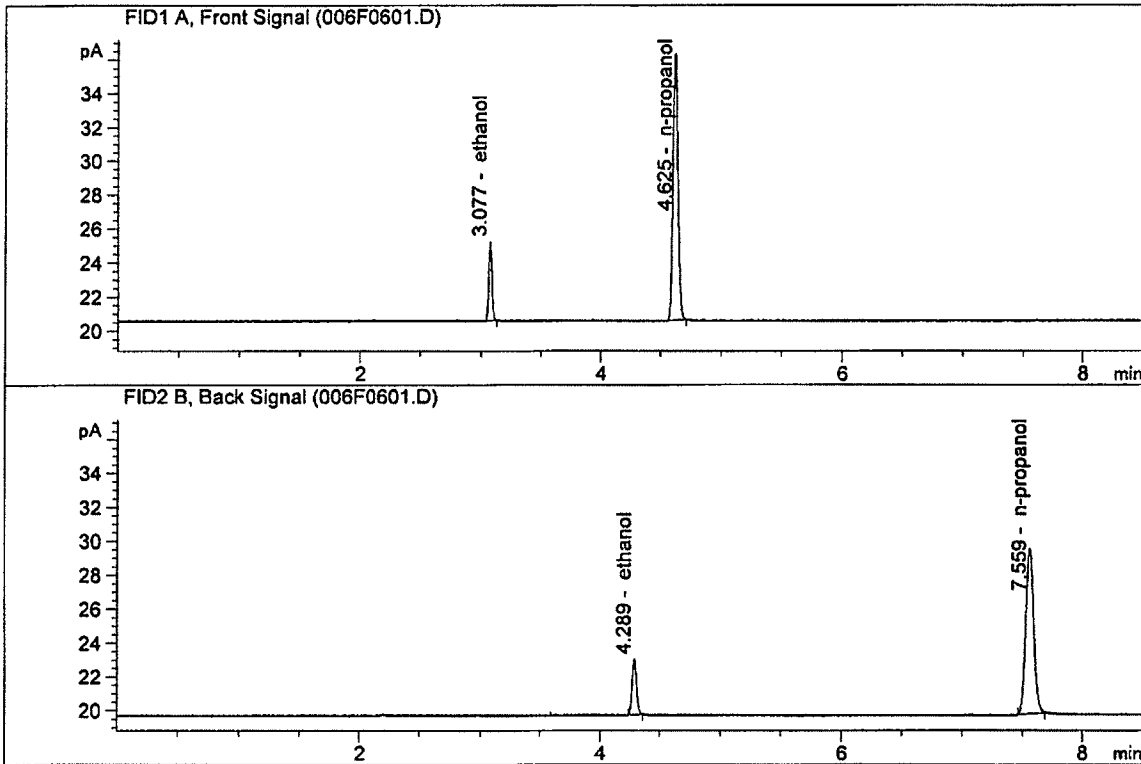


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.68153	0.0961	g/100cc
2.	Ethanol	Column 2:	9.02248	0.0961	g/100cc
3.	n-Propanol	Column 1:	46.35845	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.35998	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

56

Sample Name : BOT0070LOT19803-1-B
 Laboratory : Meridian
 Injection Date : Aug 8, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.50999	0.0977	g/100cc
2.	Ethanol	Column 2:	8.81717	0.0974	g/100cc
3.	n-Propanol	Column 1:	44.71832	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.60138	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 19803-022-A

Analysis Date(s): 12 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0982	0.0988	0.0006	0.0985	0.0975	
(g/100cc)	0.0964	0.0967	0.0003	0.0965		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

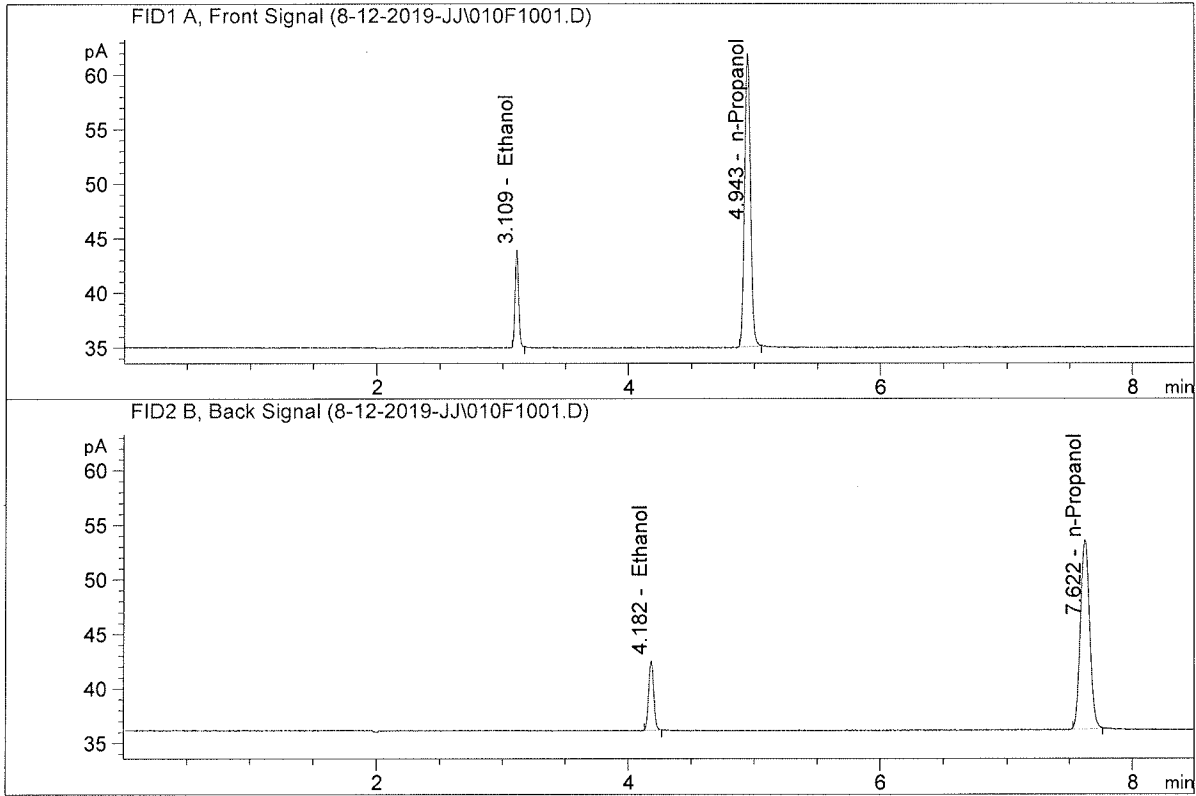
Overall Mean (g/100cc)	Low	High	5% of Mean
0.097	0.092	0.102	0.005

	Reported Result	
	0.097	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 19803-022-A
 Laboratory : Coeur d' Alene
 Injection Date : Aug 12, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005

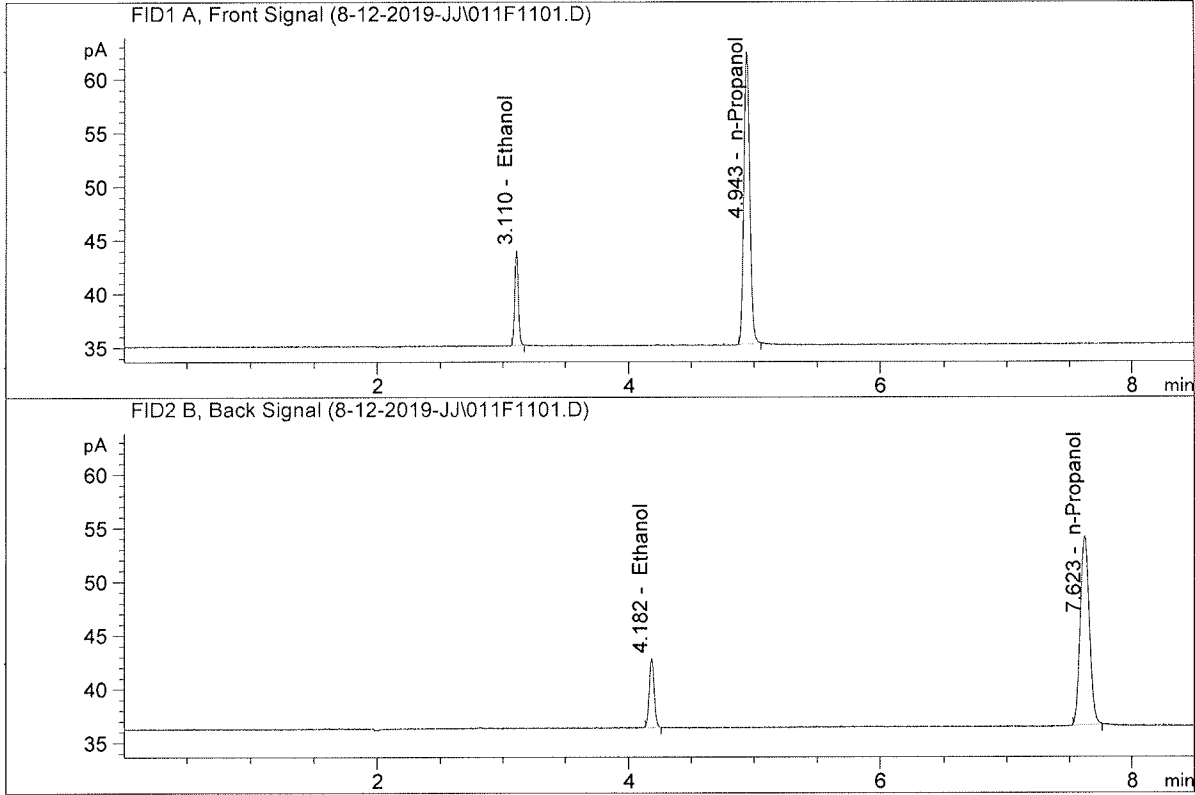


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.56116	0.0982	g/100cc
2.	Ethanol	Column 2:	17.64034	0.0988	g/100cc
3.	n-Propanol	Column 1:	88.22638	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.36382	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 19803-022-B
 Laboratory : Coeur d' Alene
 Injection Date : Aug 12, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.46371	0.0964	g/100cc
2.	Ethanol	Column 2:	17.52545	0.0967	g/100cc
3.	n-Propanol	Column 1:	89.36781	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.59902	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 19803-180-A

Analysis Date(s): 12 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0975	0.0986	0.0011	0.0980	0.0973
(g/100cc)	0.0964	0.0969	0.0005	0.0966	

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

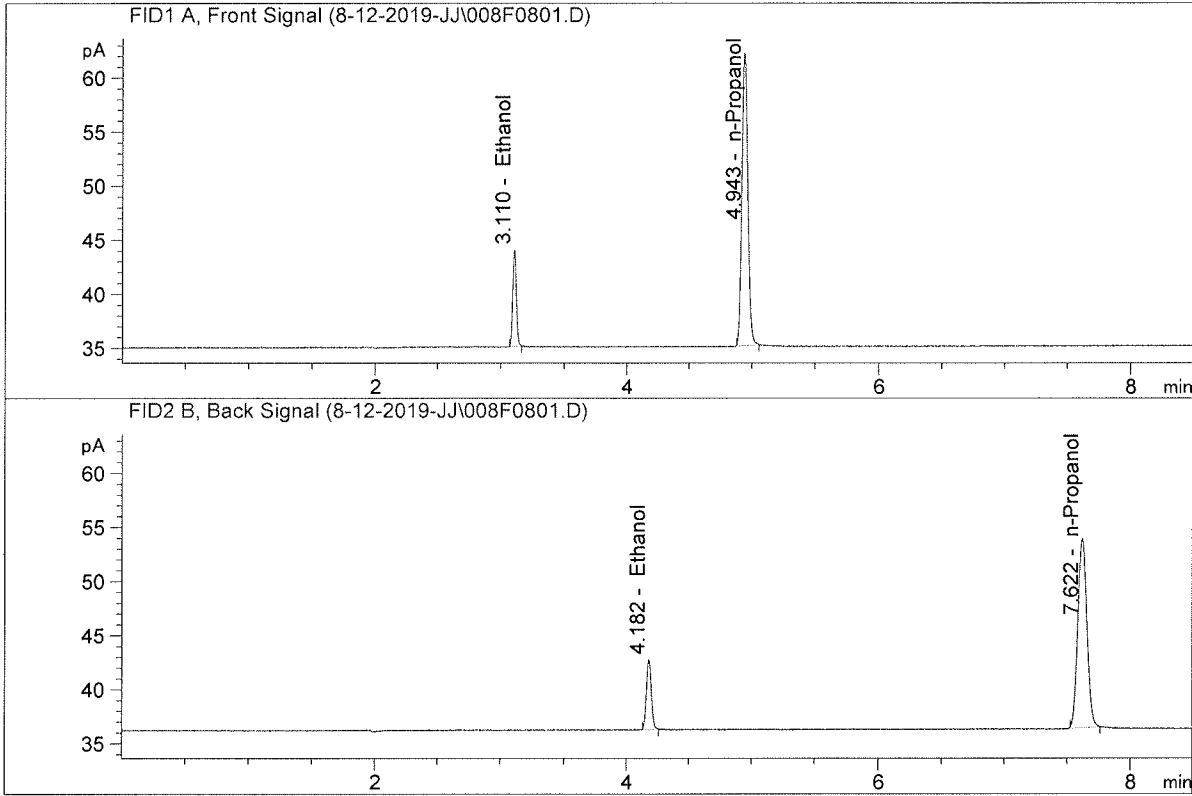
Overall Mean (g/100cc)	Low	High	5% of Mean
0.097	0.092	0.102	0.005

Reported Result	
0.097	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 19803-180-A
 Laboratory : Coeur d' Alene
 Injection Date : Aug 12, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005

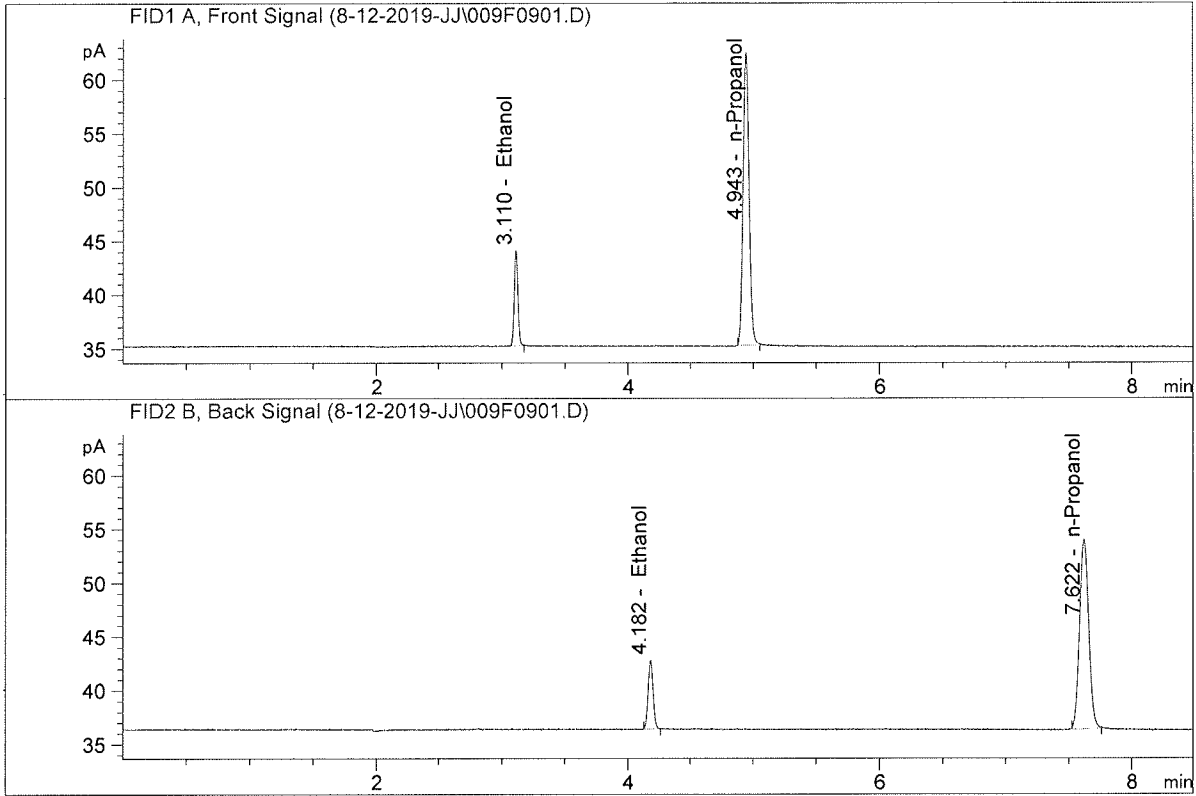


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.56508	0.0975	g/100cc
2.	Ethanol	Column 2:	17.75912	0.0986	g/100cc
3.	n-Propanol	Column 1:	88.86406	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.10724	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 19803-180-B
 Laboratory : Coeur d' Alene
 Injection Date : Aug 12, 2019
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.42362	0.0964	g/100cc
2.	Ethanol	Column 2:	17.53679	0.0969	g/100cc
3.	n-Propanol	Column 1:	89.21223	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.52365	1.0000	g/100cc

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RepCo Marketing Co
3101-188 Stony Brook Drive
Raleigh, NC 27604
888-828-0227

CERTIFICATE OF ANALYSIS

MANUFACTURER AND SUPPLIER: RepCo Marketing Co.

LOT NUMBER: 19803

EXPIRATION DATE: July 10, 2021 at 11:59 p.m.

RepCo Marketing Co. certifies the following:

RepCo Marketing Co. prepared, tested and supplied Lot Number 19803 of Alcohol Certified Solution for simulators. This solution was manufactured and tested by RepCo Marketing Co., with confirmation by ISO 17025 and ISO 17034 accredited institution Alcohol Countermeasure Systems, using NIST standards. Random samples were analyzed by Alcohol Countermeasure Systems utilizing a gas chromatograph and found to contain .0967 gms/dl +/-0.003 gms/dl wt/vol ethanol (95% Confidence).

The alcohol and distilled water used in the solution were found to be free of any interfering substance.

This solution will produce a vapor alcohol value of .080 +/-3% gms/210L breath when heated to 34 Degrees Celsius +/-0.2 Degrees Celsius in a simulator (95% Confidence).

The date of manufacture for this lot number is July 11, 2019 The expiration date for this lot number is July 10, 2021 at 11:59 p.m.

This document is a true representation of the original Certificate of Analysis.

Alma Palmer, Operations Manager
RepCo Marketing Co.

STANDARD ALCOHOL SPECIFICATION SHEET

Lot #: 19803

Target Simulator Value: 80 mg/dl (BAC)

Date of Analysis: July 19/2019

Calibration Mix: 100.84 mg/dl

NIST: SRM 2894

Expiry Date: 30 April, 2023

ISTD: n-PrOH

Source: Fisher Lot 167837

Stock ISTD Concentration: 40.1 mg/mL

Stock ISTD Preparation Date: July 3/2019

ISTD Dilution: 10 ---1000

Working ISTD Concentration: 40.1 mg/dl

Pipettor/Diluter: Hamilton 530 B

Liquid Analysis

HP 5890 Series II; FID; 4'*1/8" OD; Carbowax 1500 on Porapak Q 80/100 mesh

Temperatures

Column: 120°C

Injector: 150°C

Detector: 250°C

0.1 mL calibrator/ sample plus 1.0 mL ISTD

2 µL injections

Sample Results:

Sample Bottle #	Results #1 (mg/dl)	Results #2 (mg/dl)
1	96.60	96.85
2	96.45	96.62
3	96.86	96.66
4	96.59	96.62
5	96.60	96.95
6	96.82	96.81

Average Value: 96.70 mg/dl

Predicted Simulator Value: 79.9 mg/dl (BAC)

There is no contamination shown in the analysis chromatograms.

Date: July 22/2019

Certified:

Michelle Zieg

July 19 2019

HP 5890 Series II

STANDARDS

ISTD N-PrOH July 3 2019 Fisher Lot 167837 40.1 mg/dl
NIST SRM 2894 Expiry April 30, 2023
RepCo Marketing Co Lot #: 19803

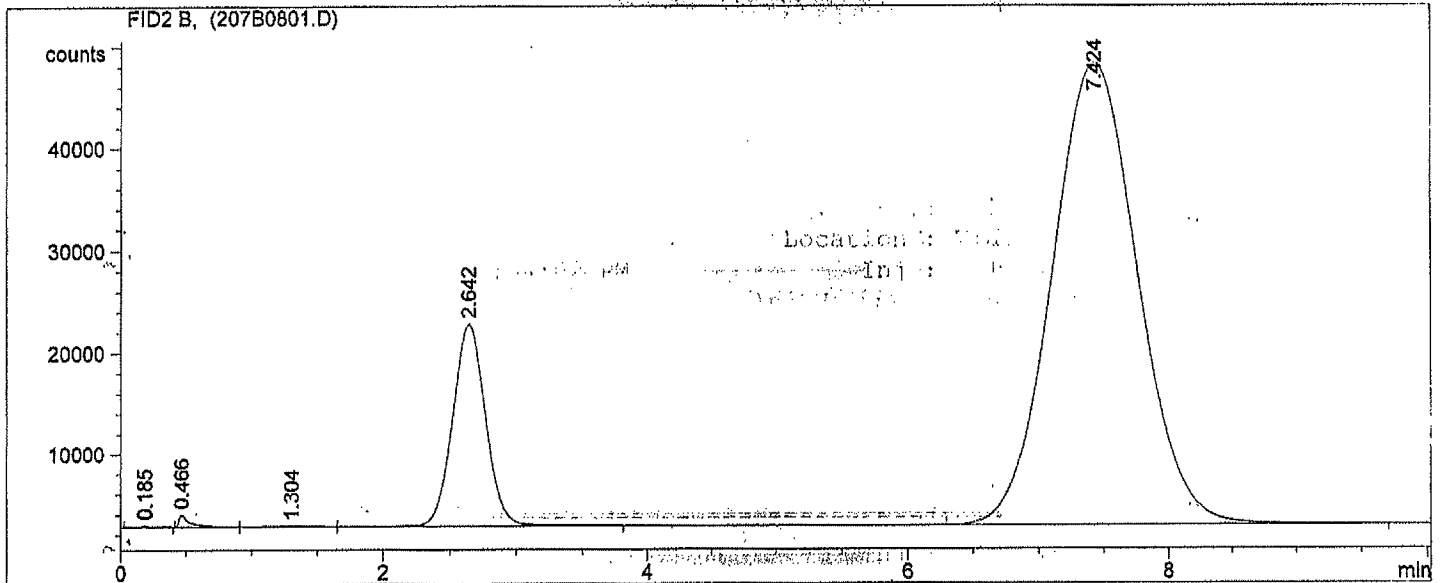
Standard Sample	GC Value	RF	<i>Column1</i>	
S1	100.84	14.38446	Mean	100.815
	100.92	14.37236	Standard Error	0.028846886
S2	100.85	14.37150	Median	100.835
	100.86	14.37038	Mode	#N/A
S3	100.65	14.37720	Standard Deviation	0.081591316
	100.82	14.37779	Sample Variance	0.006657143
S4	100.83	14.37799	Kurtosis	1.959417193
	100.75	14.37976		-
			Skewness	1.211944174
			Range	0.27
			Minimum	100.65
			Maximum	100.92
			Sum	806.52
			Count	8
			Confidence Level(95.0%)	0.068212047

Ceriliant E-031

Lot #:	F08101601	
Concentration:	99.8 mg/dl	
Conc. Range:	97.8~101.8 mg/dl	
Sample 1 Results :	99.92 mg/dl	99.85 mg/dl
Sample 2 Results :	99.87 mg/dl	99.81mg/dl
Results Average:	99.86 mg/dl	


```
=====
Acq. Operator   :                               Seq. Line :    8
Acq. Instrument : Instrument 1                   Location   : Vial 207
Injection Date  : 2019.07.19 12:34:02 PM       Inj        :    1
                                                    Inj Volume : Manually

Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```



Internal Standard Report

```
Sorted By      : Signal
Calib. Data Modified : Friday, July 19, 2019 11:34:30 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Sample Amount: : 100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
```

Sample ISTD Information:
 ISTD ISTD Amount Name
 # [mg/100ml]

```
-----|-----|-----|
2      40.10000  N-Proh
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.642	VB	1	3.48434e5	14.37976	96.59712		Ethanol
7.424	BB	I	2.07994e6	1.00000	40.10000		N-Proh

Totals without ISTD(s) : 96.59712

Sample Name: Bottle #1

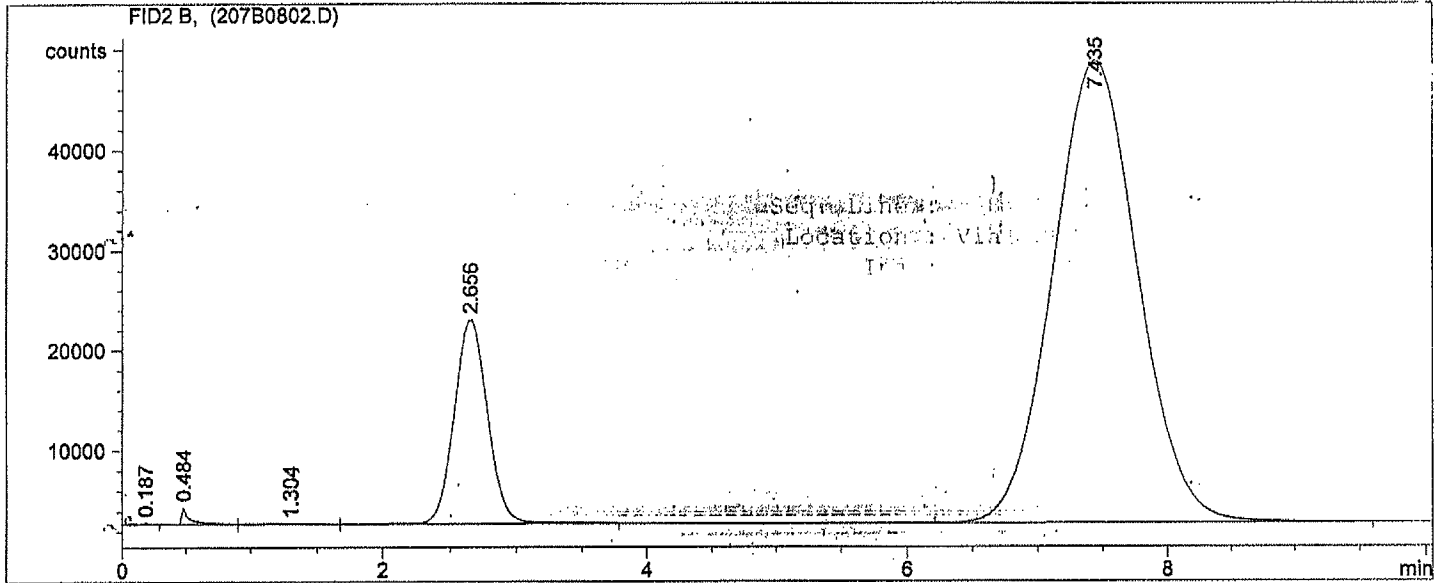
```
=====
Acq. Operator   :                               Seq. Line :    8
Acq. Instrument : Instrument 1                   Location  : Vial 207
Injection Date  : 2019.07.19 12:34:02 PM        Inj       : 1
                                                    Inj Volume : Manually

Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

```

=====
Acq. Operator   :                               Seq. Line :    8
Acq. Instrument : Instrument 1                   Location  : Vial 207
Injection Date  : 2019.07.19 12:45:34 PM      Inj       :    2
                                           Inj Volume : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
  
```



Internal Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
  
```

Sample ISTD Information:

ISTD #	ISTD Amount [mg/100ml]	Name
--------	------------------------	------

2	40.10000	N-Proh
---	----------	--------

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.656	VB	1	3.52511e5	14.37976	96.85367		Ethanol
7.435	BB	I	2.09871e6	1.00000	140.21000	1	N-Proh

Totals without ISTD(s) : 96.85367

Sample Name: Bottle #1

```
=====
Acq. Operator   :                               Seq. Line :    8
Acq. Instrument : Instrument 1                  Location  : Vial 207
Injection Date  : 2019.07.19 12:45:34 PM      Inj       :    2
                                           Inj Volume : Manually

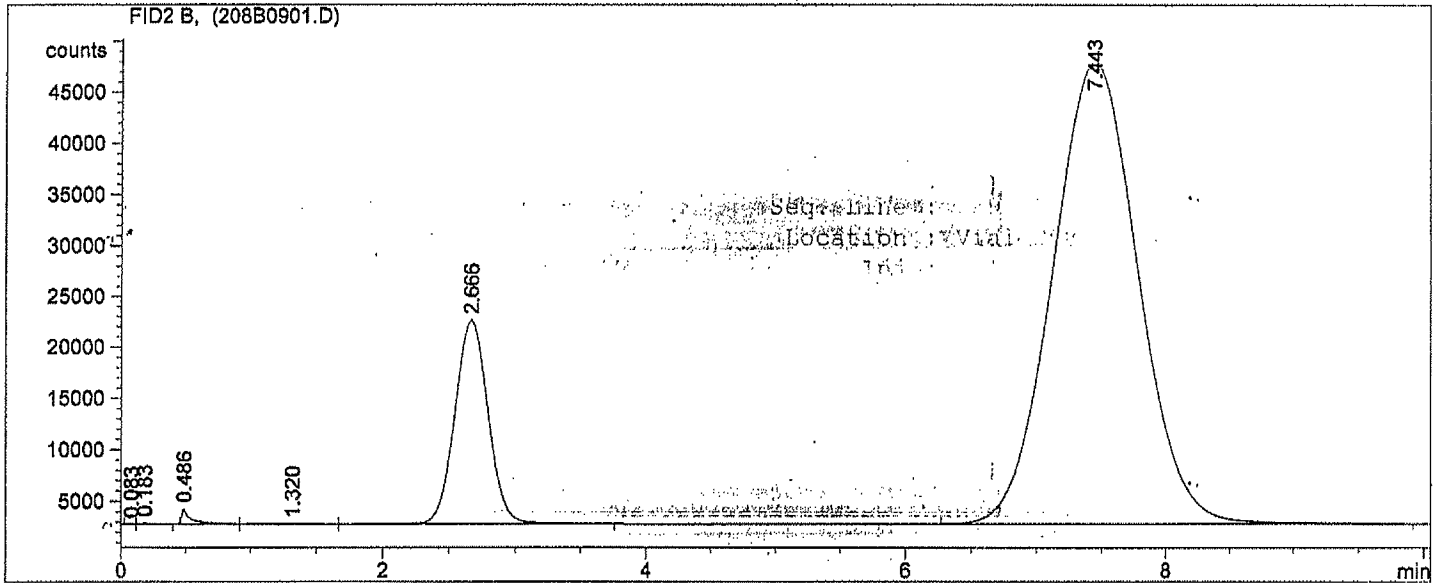
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Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                : Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

Sample Name: Bottle #2

```

=====
Acq. Operator   :                               Seq. Line   :      9
Acq. Instrument : Instrument 1                   Location      : Vial 208
Injection Date  : 2019.07.19 12:59:48 PM      Inj           :      1
                                           Inj Volume    : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier          :           1.0000
Dilution            :           1.0000
Sample Amount       :           100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#      [mg/100ml]
-----|-----|-----
2      40.10000    N-Proh
    
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.666	VB	1	3.44735e5	14.37976	96.44723		Ethanol
7.443	BB	I	2.06106e6	1.00000	40.10000		N-Proh
Totals without ISTD(s) :				96.44723			

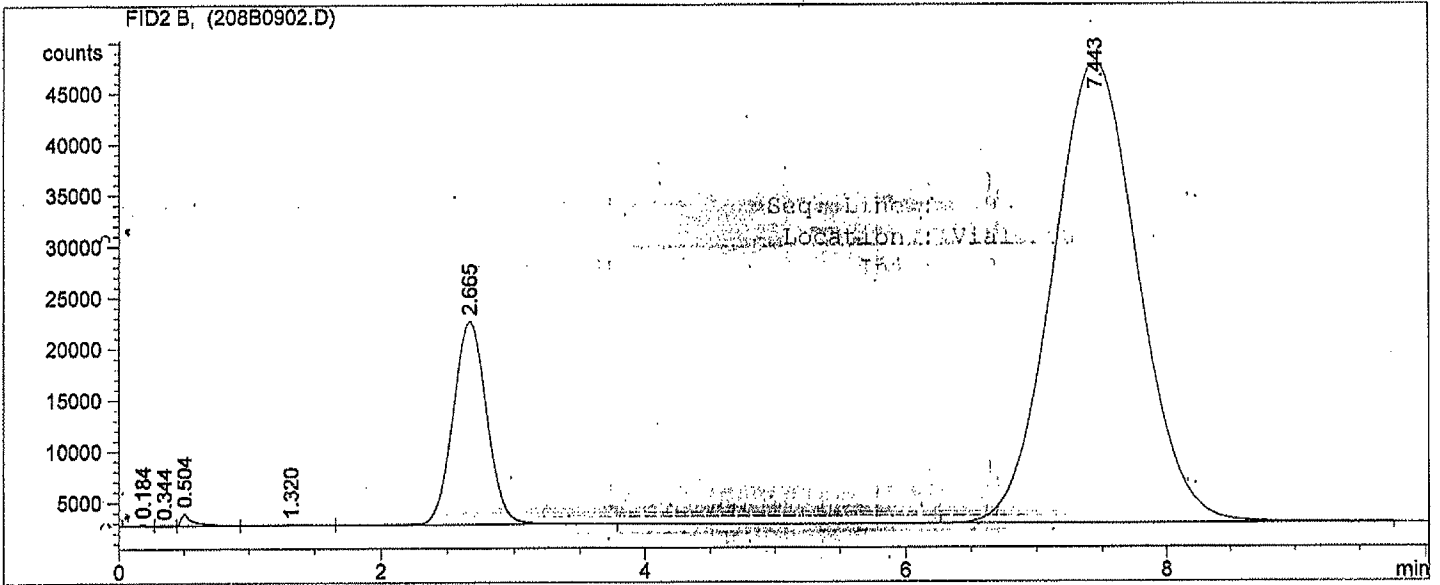
Sample Name: Bottle #2

```
=====
Acq. Operator   :                               Seq. Line   :    9
Acq. Instrument : Instrument 1                   Location      : Vial 208
Injection Date  : 2019.07.19 12:59:48 PM       Inj           :    1
                                           Inj Volume   : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

```
=====
Acq. Operator   :                               Seq. Line :    9
Acq. Instrument : Instrument 1                   Location   : Vial 208
Injection Date  : 2019.07.19 1:15:42 PM         Inj        :    2
                                                Inj Volume : Manually

Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS, Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```



Internal Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Sample Amount: :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
```

Sample ISTD Information:
 ISTD ISTD Amount Name
 # [mg/100ml]

```
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
2      40.10000  N-Proh
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.665	VB	1	3.45300e5	14.37976	96.61771		Ethanol
7.443	BB	I	2.06080e6	40.10000	40.10000		N-Proh

Totals without ISTD(s) : 96.61771

Sample Name: Bottle #2

```
=====
Acq. Operator   :                               Seq. Line :    9
Acq. Instrument : Instrument 1                   Location  : Vial 208
Injection Date  : 2019.07.19 1:15:42 PM         Inj       :    2
                                           Inj Volume : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

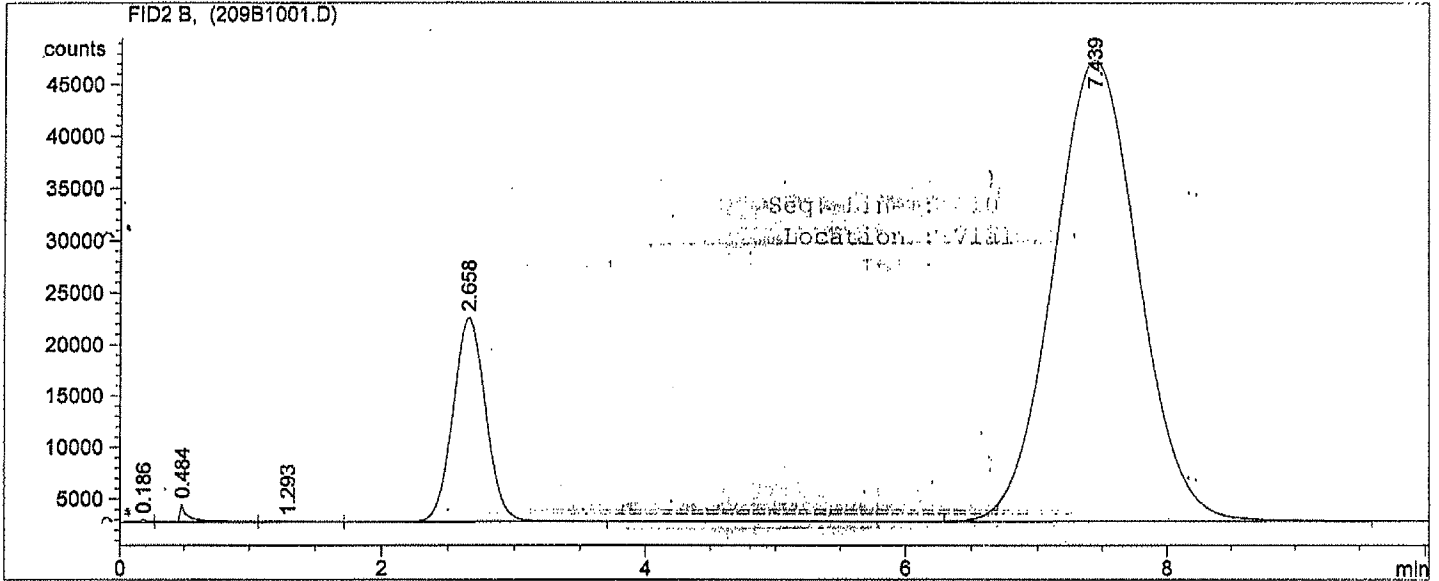
*** End of Report ***

Sample Name: Bottle #3

```

=====
Acq. Operator   :                               Seq. Line   : 10
Acq. Instrument : Instrument 1                   Location     : Vial 209
Injection Date  : 2019.07.19 1:44:47 PM      Inj          : 1
                                           Inj Volume  : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                                           Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====

```



```

=====
Internal Standard Report
=====

```

```

Sorted By           : Signal
Calib. Data Modified : Friday, July 19, 2019 11:34:30 AM
Multiplier          : 1.0000
Dilution            : 1.0000
Sample Amount       : 100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#     [mg/100ml]
-----|-----|-----
2     40.10000    N-Proh

```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.658	VB	1	3.40784e5	14.37976	96.86376		Ethanol
7.439	BB	I	2.02868e6	1.00000	40.10000		N-Proh

Totals without ISTD(s) : 96.86376

Sample Name: Bottle #3

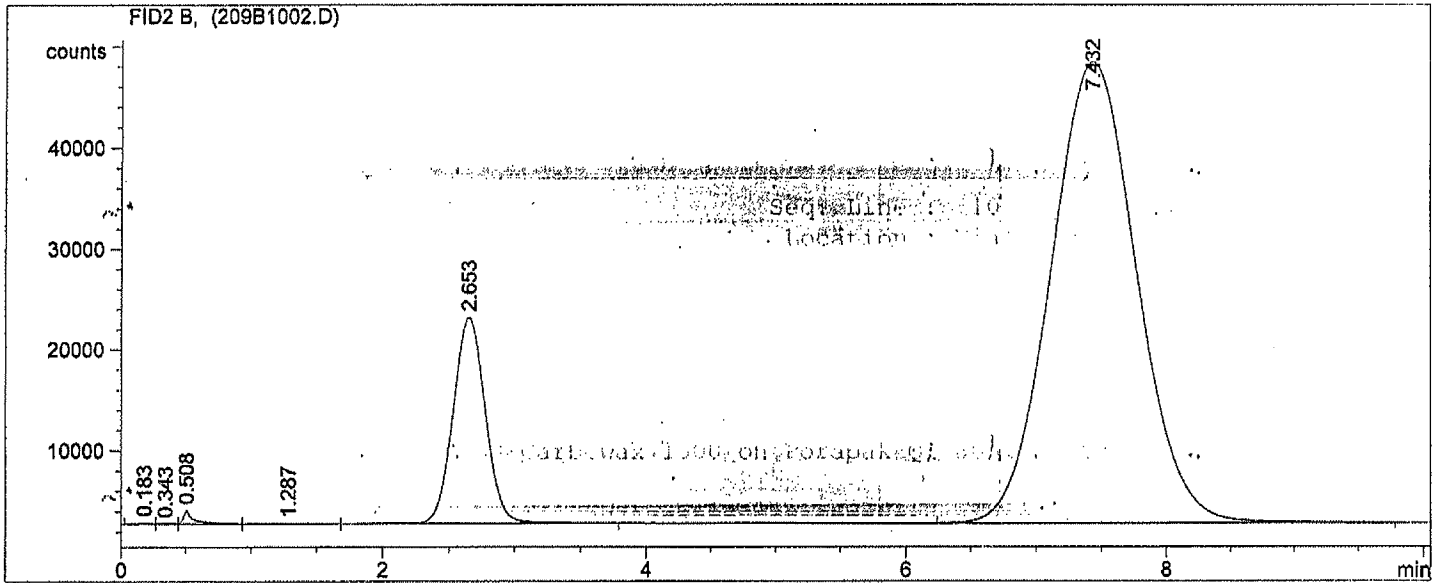
```
=====
Acq. Operator   :                               Seq. Line : 10
Acq. Instrument : Instrument 1                   Location  : Vial 209
Injection Date  : 2019.07.19 1:44:47 PM         Inj       : 1
                                           Inj Volume : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

Sample Name: Bottle #3

```

=====
Acq. Operator   :                               Seq. Line : 10
Acq. Instrument : Instrument 1                  Location  : Vial 209
Injection Date  : 2019.07.19 1:59:28 PM        Inj       : 2
                                                Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q, 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

=====
Sorted By      :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Sample Amount: :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/100ml]
-----|-----|-----|-----|-----|-----|-----|-----|
2 40.10000 N-Proh
    
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.653	VB	1	3.47707e5	14.37976	96.66272		Ethanol
7.432	BB	1	2.07420e6	1.00000	1940210000	134	N-Proh

Totals without ISTD(s) : 96.66272

Sample Name: Bottle #3

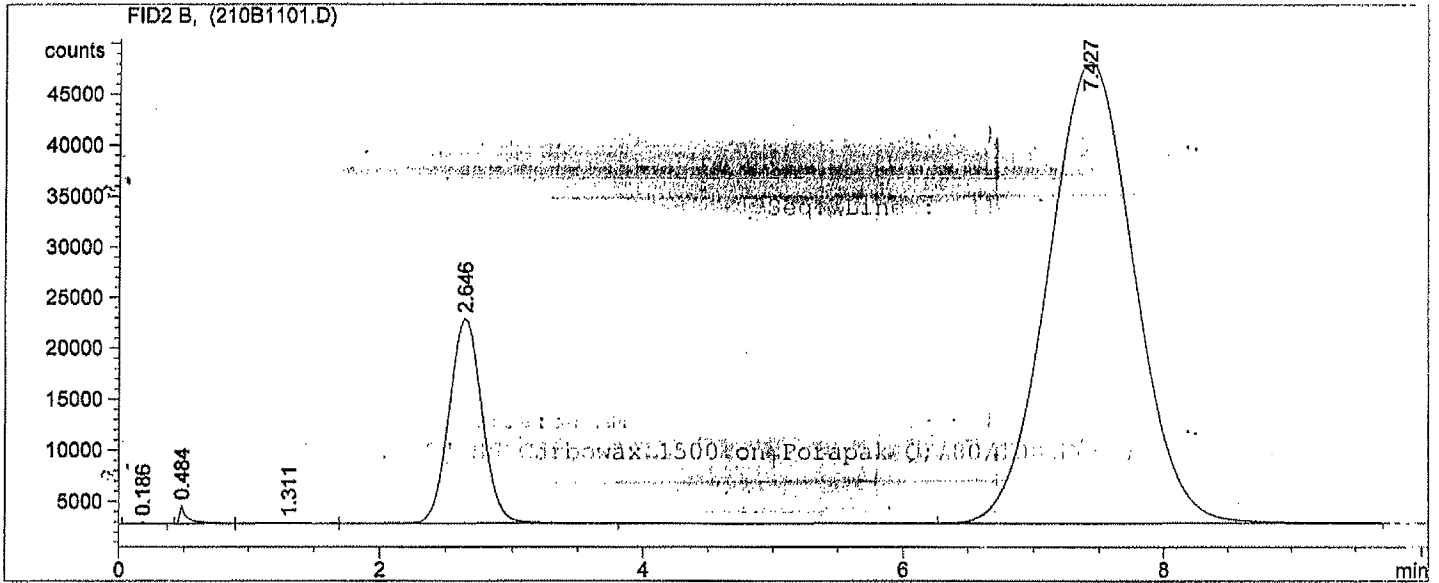
```
=====
Acq. Operator   :                               Seq. Line : 10
Acq. Instrument : Instrument 1                   Location  : Vial 209
Injection Date  : 2019.07.19 1:59:28 PM         Inj       : 2
                                           Inj Volume : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

Sample Name: bottle #4

```

=====
Acq. Operator   :                               Seq. Line : 11
Acq. Instrument : Instrument 1                 Location  : Vial 210
Injection Date  : 2019.07.19 2:16:45 PM      Inj       : 1
                                                Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q, 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

=====
Sorted By      : Signal
Calib. Data Modified : Friday, July 19, 2019 11:34:30 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Sample Amount: : 100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/100ml]
-----|-----|-----|-----|-----|-----|-----|
2 40.10000 N-Proh
    
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.646	VB	1	3.46623e5	14.37976	96.58616		Ethanol
7.427	BB	I	2.06937e6	1.00000	1940240000	134	N-Proh

Totals without ISTD(s) : 96.58616

Sample Name: bottle #4

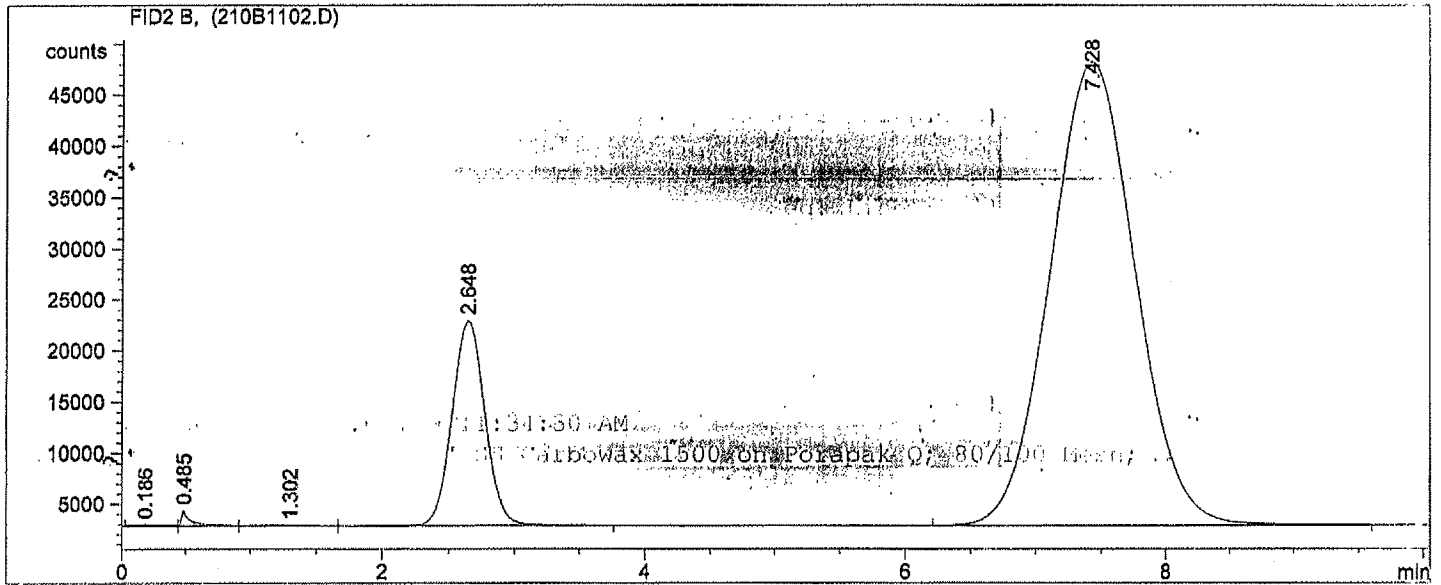
```
=====
Acq. Operator   :                               Seq. Line : 11
Acq. Instrument : Instrument 1                 Location  : Vial 210
Injection Date  : 2019.07.19 2:16:45 PM      Inj       : 1
                                                Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                Method)
Last changed    : 2019.07.19 11:34:30 AM
Method_Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

```
=====
*** End of Report ***
=====
```

Sample Name: bottle #4

```

=====
Acq. Operator   :                               Seq. Line :   11
Acq. Instrument : Instrument 1                 Location  : Vial 210
Injection Date  : 2019.07.19 2:27:52 PM      Inj       :    2
                                                Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax-1500 on Poropak Q, 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

=====
Sorted By      :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Sample Amount: :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/100ml]
-----|-----|-----|-----|-----|-----|-----|-----|
2      40.10000      N-Proh
    
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.648	VB	1	3.47442e5	14.37976	96.61954		Ethanol
7.428	BB	I	2.07354e6	1.00000	100.84000		N-Proh

Totals without ISTD(s) : 96.61954

Sample Name: bottle #4

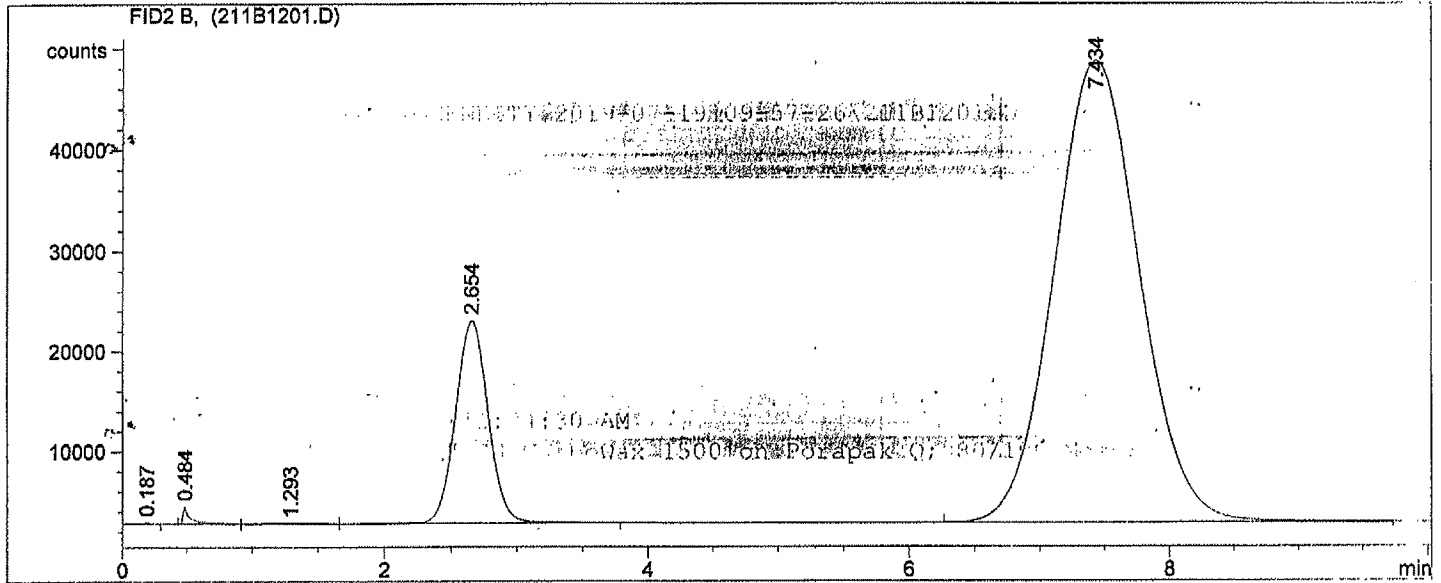
```
=====
Acq. Operator   :                               Seq. Line : 11
Acq. Instrument : Instrument 1                 Location  : Vial 210
Injection Date  : 2019.07.19 2:27:52 PM      Inj       : 2
                                           Inj Volume : Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

```
=====
*** End of Report ***
=====
```


Sample Name: Bottle #5

```

=====
Acq. Operator   :                               Seq. Line :   12
Acq. Instrument : Instrument 1                 Location  : Vial 211
Injection Date  : 2019.07.19 2:41:12 PM      Inj       :    1
                                           Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

=====
Sorted By      :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Sample Amount: :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#      [mg/100ml]
-----|-----|-----
2      40.10000    N-Proh
    
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.654	VB	1	3.51102e5	14.37976	96.60486		Ethanol
7.434	BB	I	2.09570e6	1.00000	40.10000		N-Proh

Totals without ISTD(s) : 96.60486

Sample Name: Bottle #5

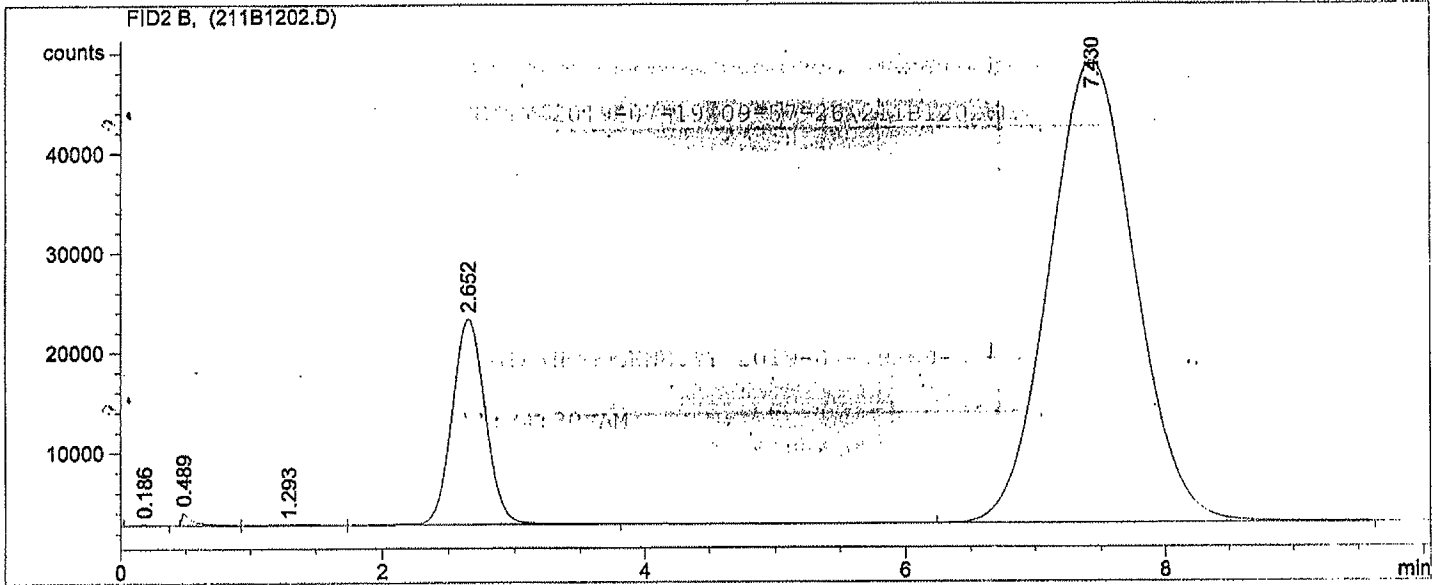
```
=====
Acq. Operator   :                               Seq. Line : 12
Acq. Instrument : Instrument 1                  Location  : Vial 211
Injection Date  : 2019.07.19 2:41:12 PM        Inj       : 1
                                                Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4" X 0.125" SS Carbowax 1500 on Porapak Q, 80/100 Mesh; August 18, 2018
=====
```

```
=====
*** End of Report ***
=====
```

Sample Name: Bottle #5

```

=====
Acq. Operator   :                               Seq. Line :   12
Acq. Instrument : Instrument 1                  Location  : Vial 211
Injection Date  : 2019.07.19 2:51:55 PM      Inj       :    2
                                           Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
Method)
Last changed   : 2019.07.19 11:34:30 AM
Method Info    : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier          :              1.0000
Dilution            :              1.0000
Sample Amount       :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD [STD Amount   Name
# [mg/100ml]
    
```

ISTD #	ISTD Amount [mg/100ml]	Name
2	40.10000	N-Proh

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.652	VB	1	3.54236e5	14.37976	96.94761		Ethanol
7.430	BB	I	2.10694e6	1.00000	40.10000		N-Proh

Totals without ISTD(s) : 96.94761

Sample Name: Bottle #5

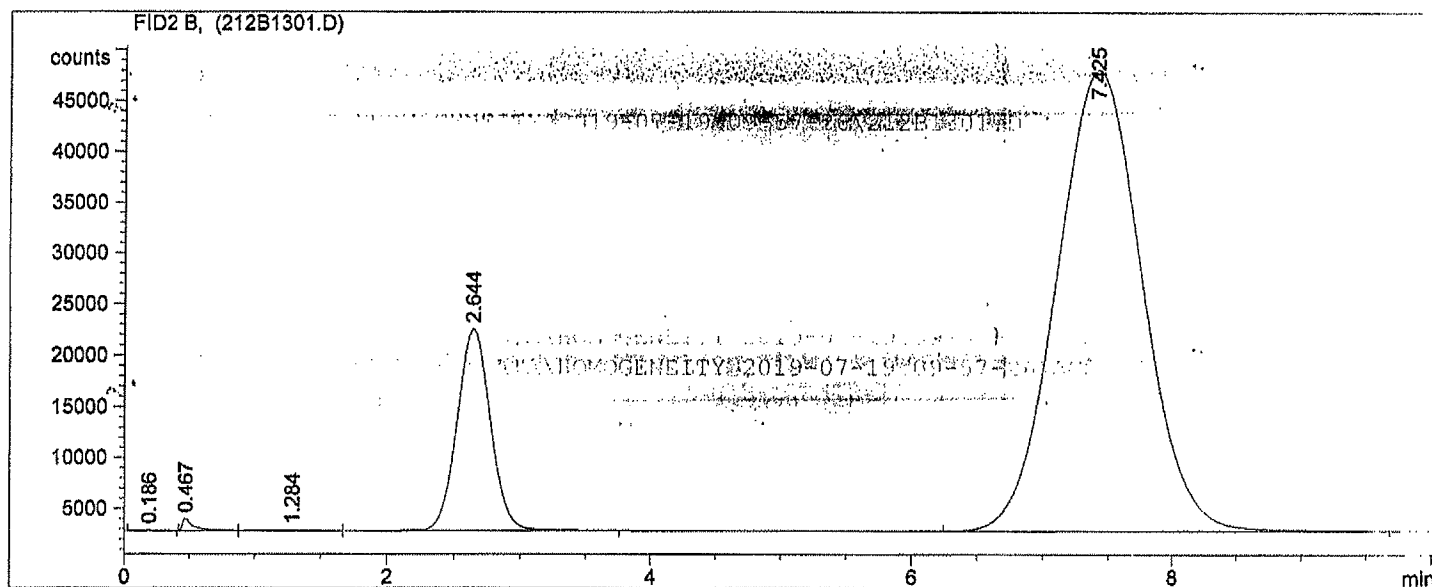
```
=====
Acq. Operator   :                               Seq. Line : 12
Acq. Instrument : Instrument 1                   Location  : Vial 211
Injection Date  : 2019.07.19 2:51:55 PM          Inj       : 2
                                                    Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

```
=====
*** End of Report ***
=====
```

Sample Name: Bottle #6

```

=====
Acq. Operator   :                               Seq. Line :   13
Acq. Instrument : Instrument 1                  Location  : Vial 212
Injection Date  : 2019.07.19 3:09:46 PM        Inj       :    1
                                           Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09:57:26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09:57:26\ACS3.M (Sequence
                                           Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier          :           1.0000
Dilution            :           1.0000
Sample Amount       :      100.84000 [mg/100ml] (not used in calc.)
    
```

Use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount [mg/100ml]	Name
2	40.10000	N-Proh

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Amount [mg/100ml]	Grp	Name
2.644	VB	1	3.48081e5	14.37976	96.82447		Ethanol
7.425	BB	I	2.07296e6	1.00000	40.10000		N-Proh

Totals without ISTD(s) : 96.82447

Sample Name: Bottle #6

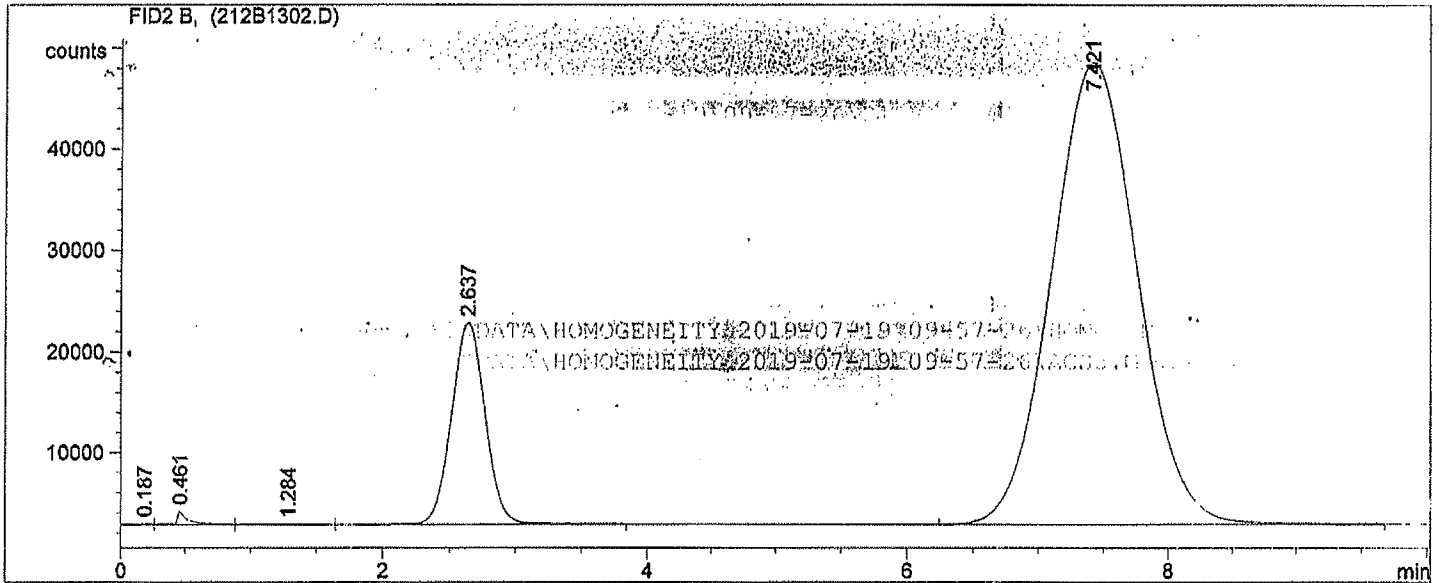
```
=====
Acq. Operator   :                               Seq. Line :   13
Acq. Instrument : Instrument 1                  Location  : Vial 212
Injection Date  : 2019.07.19 3:09:46 PM        Inj       :    1
                                           Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                  Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

Sample Name: Bottle #6

```

=====
Acq. Operator   :                               Seq. Line :   13
Acq. Instrument : Instrument 1                 Location  : Vial 212
Injection Date  : 2019.07.19 3:21:57 PM      Inj       :    2
                                           Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method          : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                                           Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
    
```



Internal Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      Friday, July 19, 2019 11:34:30 AM
Multiplier          :           1.0000
Dilution            :           1.0000
Sample Amount       :      100.84000 [mg/100ml] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#      [mg/100ml]
-----|-----|-----
2      40.10000    N-Proh
    
```

Signal 1: FID2 B,

RetTime [min]	Type	ISTD used	Area counts*s	Amt/Area ratio	Report Amount [mg/100ml]	Grp Name
2.637	VB	1	3.51956e5	14.37976	96.81468	Ethanol
7.421	BB	I	2.09625e6	1.00000	40.10000	N-Proh

Totals without ISTD(s) : 96.81468

Sample Name: Bottle #6

```
=====
Acq. Operator   :                               Seq. Line :   13
Acq. Instrument : Instrument 1                 Location  : Vial 212
Injection Date  : 2019.07.19 3:21:57 PM      Inj       :    2
                                           Inj Volume: Manually
Sequence File   : C:\Chem32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\HOMOGENEITY.S
Method         : C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\ACS3.M (Sequence
                Method)
Last changed    : 2019.07.19 11:34:30 AM
Method Info     : 4' X 0.125" SS Carbowax 1500 on Porapak Q; 80/100 Mesh; August 18, 2018
=====
```

*** End of Report ***

C:\CHEM32\1\DATA\HOMOGENEITY 2019-07-19 09-57-26\212B1302.D