VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster Interference Solution

On 5/24/2013, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster Interference Check solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-10-040 and an expiration date of 5/24/2014.

On 5/24/2013 and 5/28/2013, the solution was analyzed against calibration VFL05242013 and SIM05282013. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

This solution is certified as presenting 0.040 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Interference Check solution.

Dated at Waterbury, Vermont on Wednesday, May 29, 2013.

Rebecca Mead

Rebecca Mead

0.04 Interference Solution 2L
Lot # 13-10-040
Prepared 05/24/2013 by RLM
Exp 05/24/2014

RLM CAL VFL05242013
RLM/ALB Vials
Analyzed on 05/24/2013

0.0393 rlm
0.0402
0.0394
0.0400
0.0395
0.0403
0.0391
0.0415 alb
0.0405
0.0410
0.0403
0.0407
0.0399
0.0400

Ave. = 0.0401
Std Dev. = 0.0007
Range = 0.0391-0.0415

RLM CAL SIM05282013
RLM/ALB Vials
Analyzed on 05/28/2013

0.0389 rlm
0.0397
0.0388
0.0395
0.0391
0.0399
0.0393
0.0414 alb
0.0402
0.0410
0.0395
0.0404
0.0398
0.0395

Ave. = 0.0398
Std Dev. = 0.0008
Range = 0.0388-0.0414

Total Values from Both Runs

Average	Mean
0.0393	0.0388
0.0402	0.0389
0.0394	0.0391
0.0400	
0.0395	0.0393
0.0403	
0.0391	0.0394
0.0415	0.0395
0.0405	
0.0410	
0.0403	
0.0407	0.0397
0.0399	0.0398
0.0400	0.0399
0.0389	
0.0397	0.0400
0.0388	
0.0395	0.0402
0.0391	
0.0399	0.0403
0.0393	
0.0414	0.0404
0.0402	0.0405
0.0410	0.0407
0.0395	0.0410
0.0404	
0.0398	0.0414
0.0395	0.0415

Ave. =	0.0400
Avg Std Dev. =	0.0007
Mean =	0.0400
Mean Std Dev. =	0.0008
Range =	0.0388-0.0415
RPD =	6.75%

5/29/2013

Headspace Alcohol Analysis Standards Coversheet

5/29/2013

Analyst: RLM Date: 5/24/13

Calibration Standards:

Lot ID: ES-04152013 Preparation Date: 04/15/2013 Expiration Date: 7/15/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.005	0.022	0.084	0.204	0.402	0.084
Acceptance Range (± 10%)	0.006	0.024	0.092	0.224	0.443	0.092
	0.004	0.020	0.075	0.183	0.362	0.075

(c)

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	FN021111-03	0.080	0.072	0.088

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.90		
		Methanol	1.99		
		Ethanol	2.64		
		Acetone	3.04		
		Isopropanol	3.18		
		T- butanol	3.62		
		n-propanol	4.43		
3	Standard A		0.006	(Y) N	
4	Standard B		0.022	(Y) N	
5	Standard C		0.085	(Y) N	
6	Standard D		0.199	(Y) N	
7	Standard E		0.405	(Y) N	
~~8~~ 10 RLM 5/28/13	Aqueous QC		0.0776	(Y) N	Avg = 0.078 (97% recovery) ✓
~~9~~ 11 RLM 5/28/13	Aqueous QC		0.0793	(Y) N	

13-10-040

2 3 RLM 5/29/13 RLM

File Name: C:\Methods\VFL05242013.CAL
Version: 7

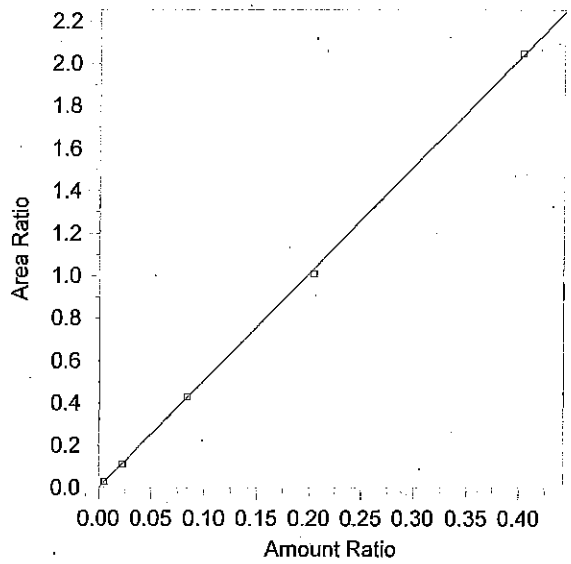
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
Reference peak area reject threshold: 0
Amount units:
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

3 Ethanol



Expected retention time:	2.634 minutes
Search window:	0.1 minutes
Internal standard component:	7 (n-Propanol)
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by area

Y = 5.064304 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9997539
Average error:	1.768%
Average CF:	5.079975
RSD:	2.358%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0055	4152.207	754946.8	3.860	0.0055	2.892875E-02	C:\Alcohol Data\VFL05242013\VFL05242013.0003.BND	5/24/2013 3:31:33 PM
3	0.0221	16238.96	734794.6	-1.381	0.0221	0.1103753	C:\Alcohol Data\VFL05242013\VFL05242013.0004.BND	5/24/2013 3:49:28 PM
4	0.084	61898.96	736892.4	0.784	0.084	0.4287368	C:\Alcohol Data\VFL05242013\VFL05242013.0005.BND	5/24/2013 4:03:14 PM
5	0.2037	152493.3	748617.1	-2.264	0.2037	1.008239	C:\Alcohol Data\VFL05242013\VFL05242013.0006.BND	5/24/2013 4:20:55 PM
6	0.4026	314017	779972.7	0.549	0.4026	2.050082	C:\Alcohol Data\VFL05242013\VFL05242013.0007.BND	5/24/2013 4:34:37 PM

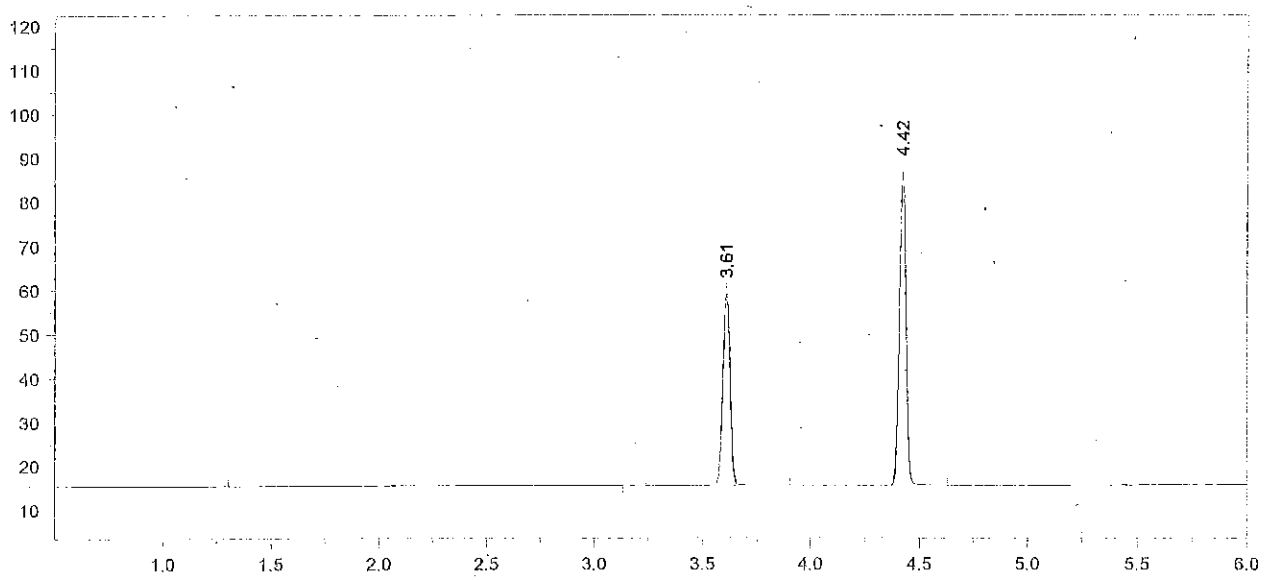
13-10-040 3 RLM

File Name = C:\Alcohol Data\VFL05242013\VFL05242013.SEQ
Version = 1
File Date = 5/24/2013 2:24:04 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL05242013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL05242013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL05242013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL05242013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL05242013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL05242013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL05242013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL05242013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL05242013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL05242013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL05242013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL05242013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL05242013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL05242013.0014.raw	Blood Alc temp VFL.MET	V13-1181 A1-1	1.00	1.00
15	VFL05242013.0015.raw	Blood Alc temp VFL.MET	V13-1181 A1-1	1.00	1.00
16	VFL05242013.0016.raw	Blood Alc temp VFL.MET	V13-1184 A1-1	1.00	1.00
17	VFL05242013.0017.raw	Blood Alc temp VFL.MET	V13-1184 A1-1	1.00	1.00
18	VFL05242013.0018.raw	Blood Alc temp VFL.MET	V13-1188 A1-1	1.00	1.00
19	VFL05242013.0019.raw	Blood Alc temp VFL.MET	V13-1188 A1-1	1.00	1.00
20	VFL05242013.0020.raw	Blood Alc temp VFL.MET	V13-1194 A1-1	1.00	1.00
21	VFL05242013.0021.raw	Blood Alc temp VFL.MET	V13-1194 A1-1	1.00	1.00
22	VFL05242013.0022.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
23	VFL05242013.0023.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
24	VFL05242013.0024.raw	simsoln.met	0.04 RLM	1.00	1.00
25	VFL05242013.0025.raw	simsoln.met	0.04 RLM	1.00	1.00
26	VFL05242013.0026.raw	simsoln.met	0.04 RLM	1.00	1.00
27	VFL05242013.0027.raw	simsoln.met	0.04 RLM	1.00	1.00
28	VFL05242013.0028.raw	simsoln.met	0.04 RLM	1.00	1.00
29	VFL05242013.0029.raw	simsoln.met	0.04 RLM	1.00	1.00
30	VFL05242013.0030.raw	simsoln.met	0.04 RLM	1.00	1.00
31	VFL05242013.0031.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
32	VFL05242013.0032.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
33	VFL05242013.0033.raw	simsoln.met	0.04 ALB	1.00	1.00
34	VFL05242013.0034.raw	simsoln.met	0.04 ALB	1.00	1.00
35	VFL05242013.0035.raw	simsoln.met	0.04 ALB	1.00	1.00
36	VFL05242013.0036.raw	simsoln.met	0.04 ALB	1.00	1.00
37	VFL05242013.0037.raw	simsoln.met	0.04 ALB	1.00	1.00
38	VFL05242013.0038.raw	simsoln.met	0.04 ALB	1.00	1.00
39	VFL05242013.0039.raw	simsoln.met	0.04 ALB	1.00	1.00
40	VFL05242013.0040.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
41	VFL05242013.0041.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

casework samples not included RLM 5/29/13

13-10-040 4 RLM

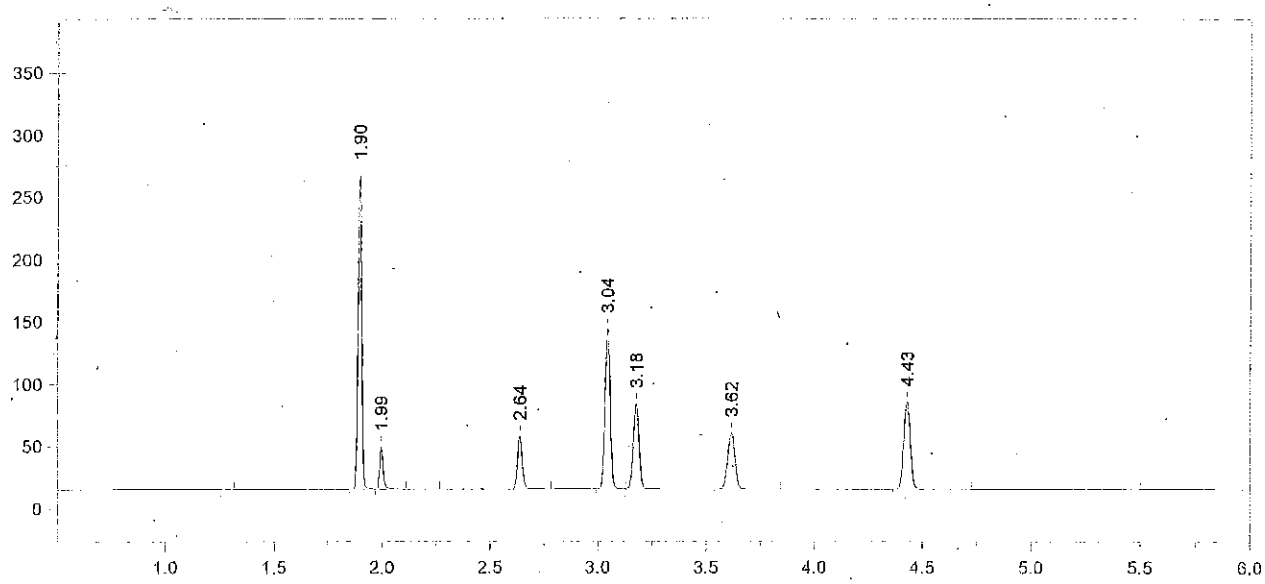


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:59:32 AM
Bound File Name = VFL05242013.0001.RAW
Sample Name = Blank
Date Taken = 5/24/2013 2:59:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.61	t-Butanol	100302	0.9720
4	4.42	n-Propanol	150293	1.0000

13-10-040 5 RLM

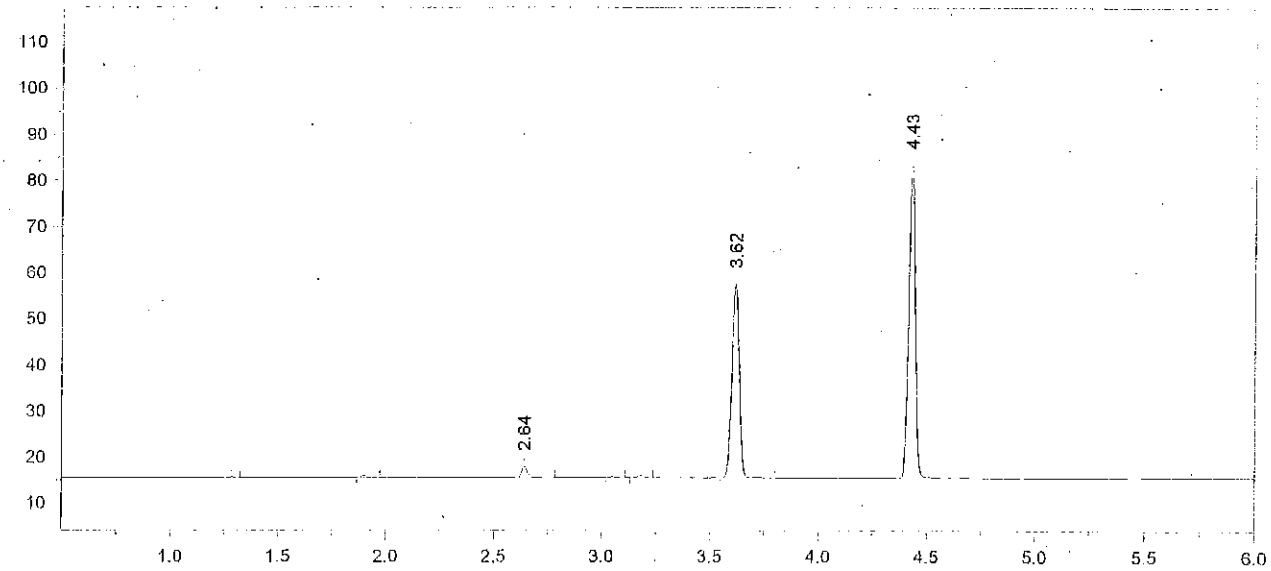


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:59:41 AM
Bound File Name = VFL05242013.0002.RAW
Sample Name = TMX
Date Taken = 5/24/2013 3:17:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.90	Acetaldehyde	282791	0.0720
3	1.99	Methanol	40271	0.1210
4	2.64	Ethanol	64325	0.0855
5	3.04	Acetone	216667	0.0690
6	3.18	Isopropanol	127677	0.0830
7	3.62	t-Butanol	104238	1.0220
8	4.43	n-Propanol	148548	1.0000

13-10-040 6 RLM

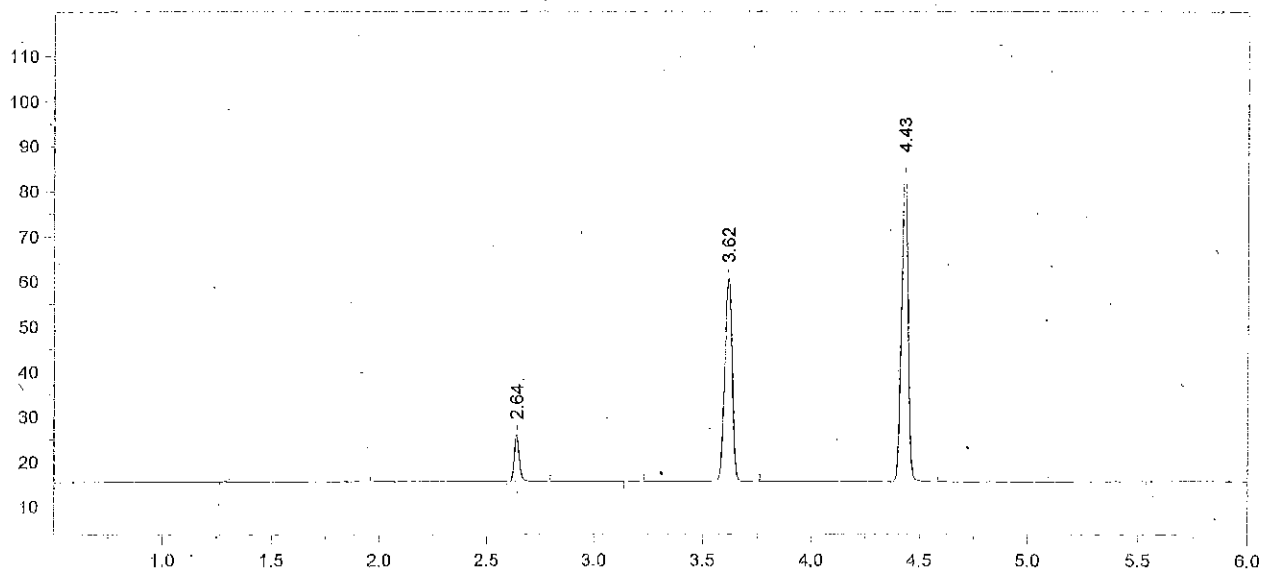


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:59:46 AM
Bound File Name = VFL05242013.0003.RAW
Sample Name = STD A
Date Taken = 5/24/2013 3:31:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	04152	0.0057
6	3.62	t-Butanol	96701	0.9812
7	4.43	n-Propanol	143532	1.0000

13-10-040 7

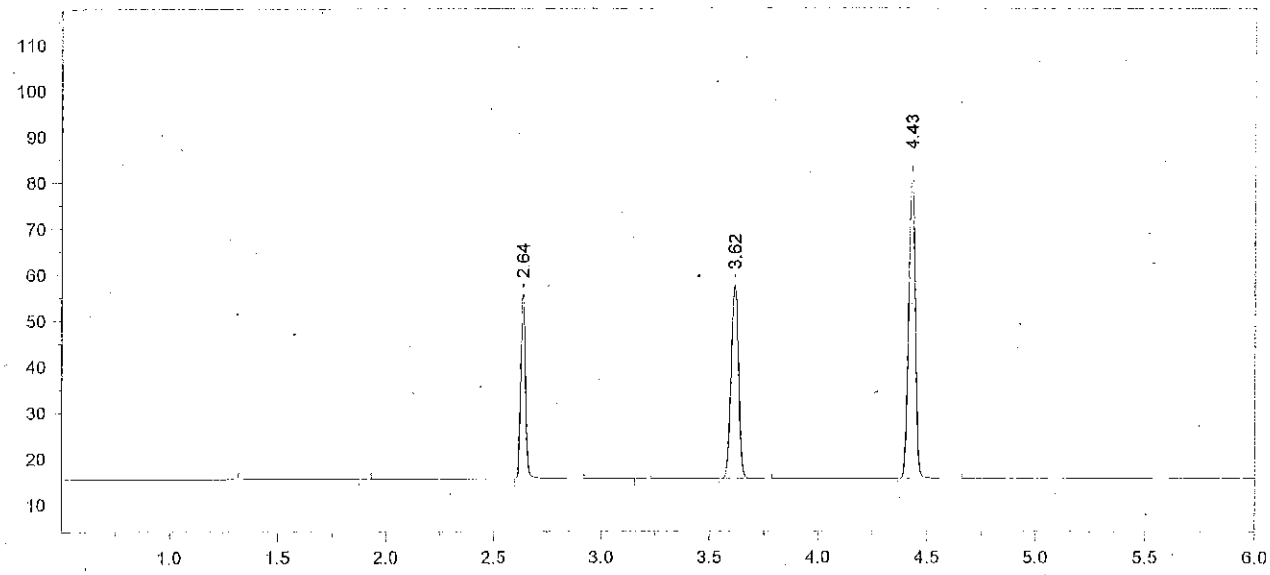


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:59:52 AM
Bound File Name = VFL05242013.0004.RAW
Sample Name = STD B
Date Taken = 5/24/2013 3:49:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	16239	0.0218 *
5	3.62	t-Butanol	104016	1.0297
6	4.43	n-Propanol	147125	1.0000

13-10-040 8 RM

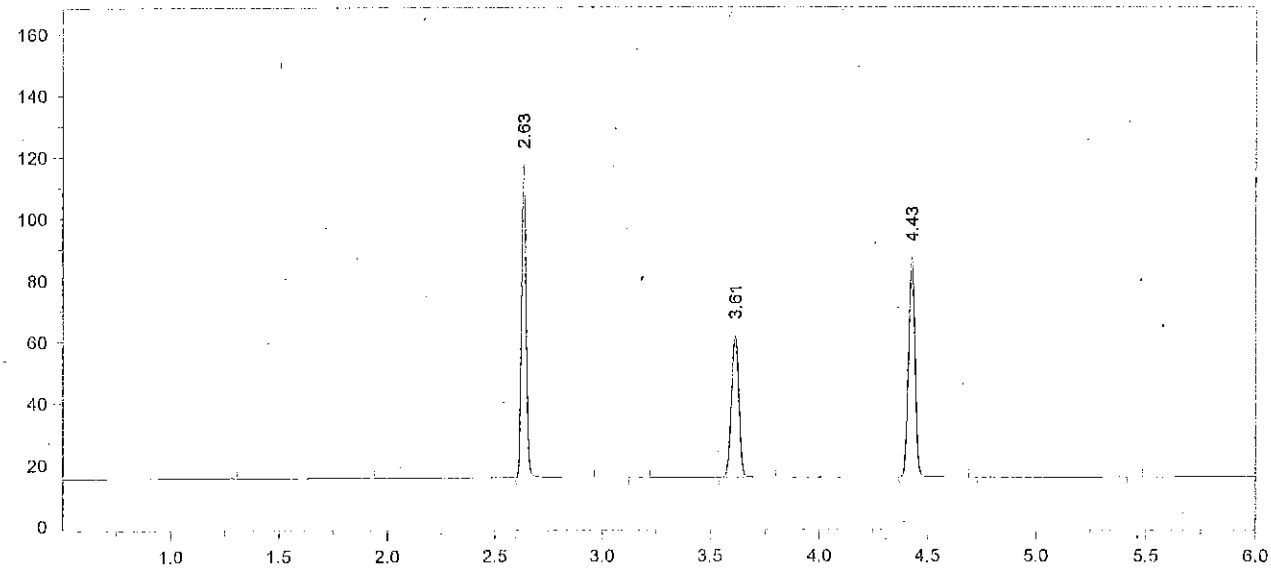


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:59:58 AM
Bound File Name = VFL05242013.0005.RAW
Sample Name = STD C
Date Taken = 5/24/2013 4:03:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	61899	0.0847
5	3.62	t-Butanol	97246	0.9810
6	4.43	n-Propanol	144375	1.0000

13-10-040 9 RM

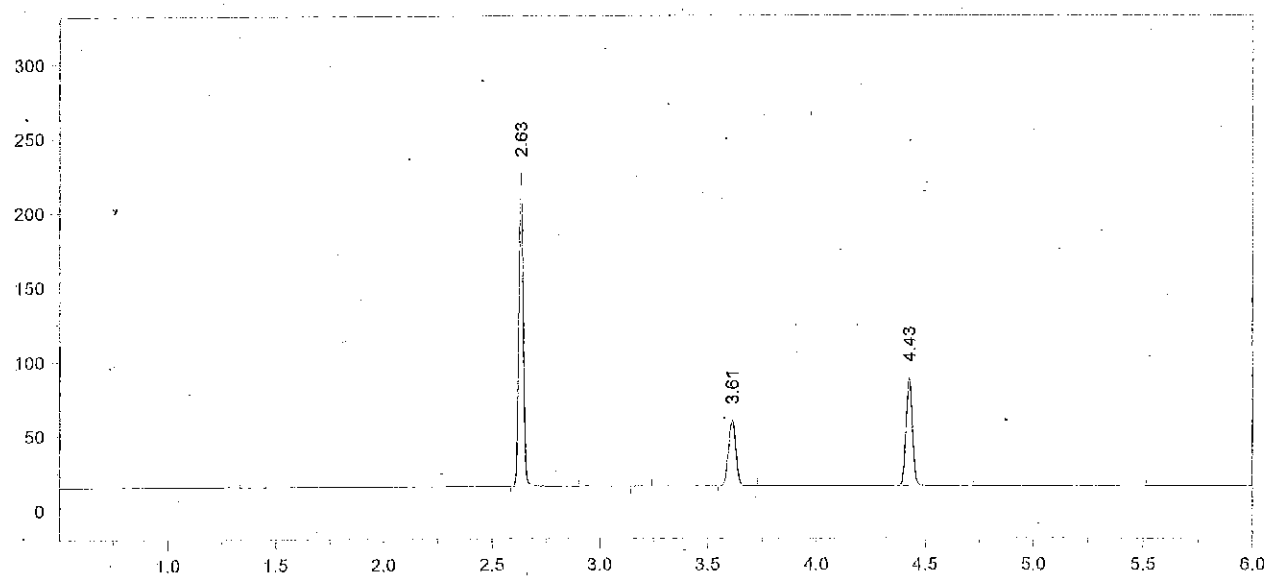


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 8:00:05 AM
Bound File Name = VFL05242013.0006.RAW
Sample Name = STD D
Date Taken = 5/24/2013 4:20:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	152493	0.1991
5	3.61	t-Butanol	106265	1.0233
6	4.43	n-Propanol	151247	1.0000

13-10-040 10 RM

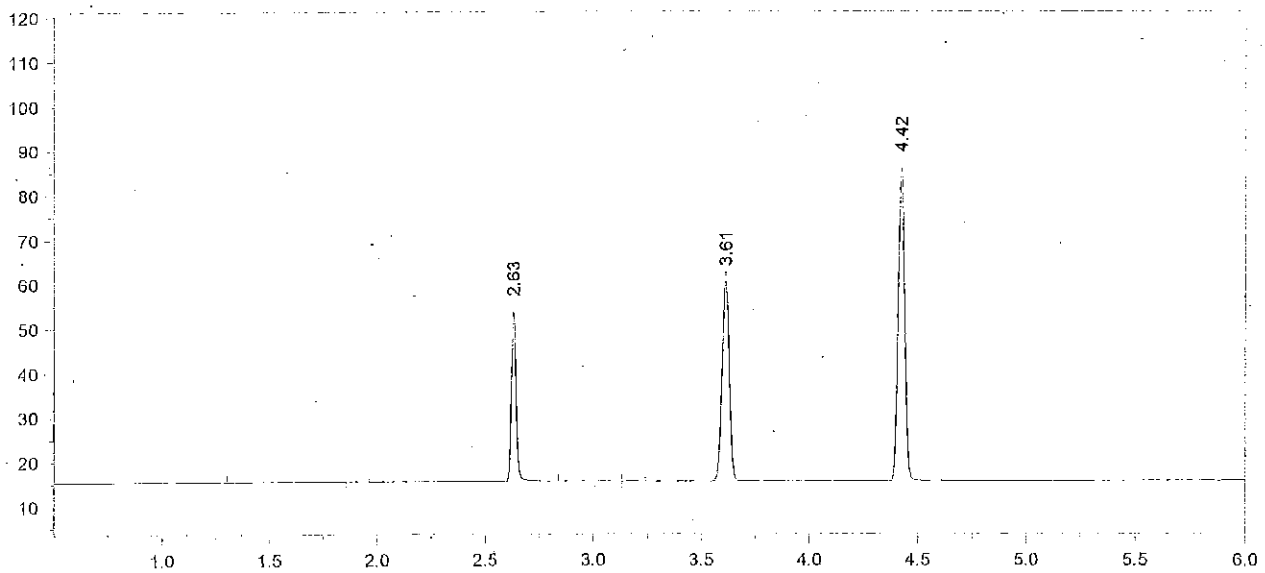


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 8:00:11 AM
Bound File Name = VFL05242013.0007.RAW
Sample Name = STD E
Date Taken = 5/24/2013 4:34:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	314017	0.4048 *
4	3.61	t-Butanol	101273	0.9629
5	4.43	n-Propanol	153173	1.0000

13-10-040 11 [illegible]

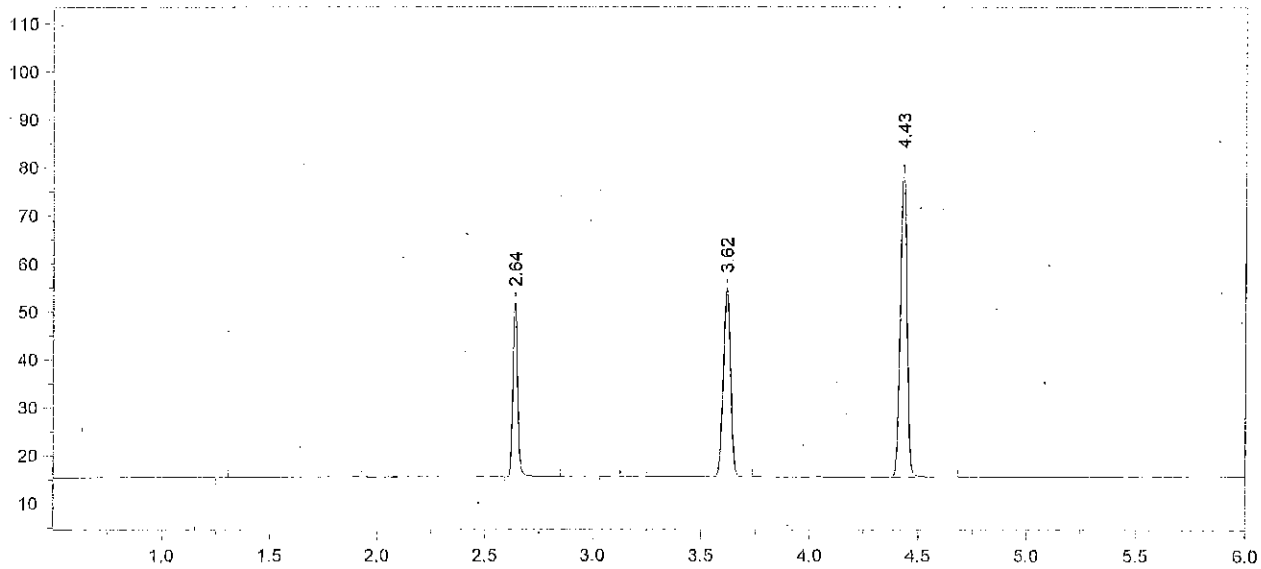


Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 4:52:16 PM
Bound File Name = VFL05242013.0008.RAW
Sample Name = WB
Date Taken = 5/24/2013 4:52:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	58708	0.0779 *
6	3.61	t-Butanol	103219	1.0105
7	4.42	n-Propanol	148764	1.0000

13-10-040 12 RZM



Format File Name = AlcoholVFL.FMT

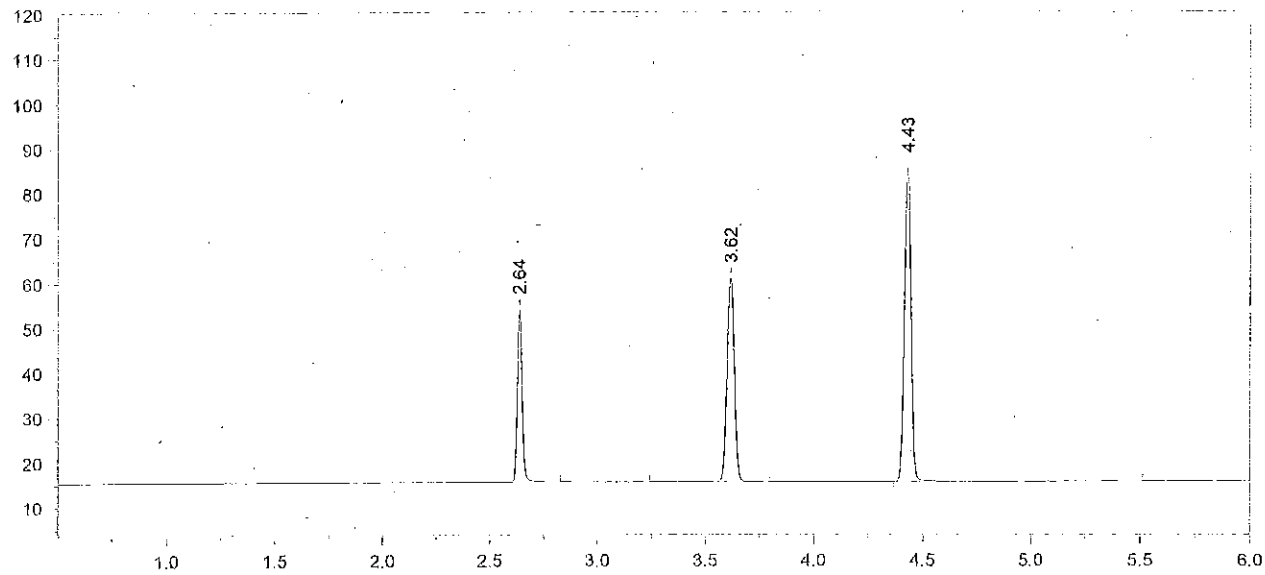
Today's Date = 5/24/2013
Today's Time = 5:06:03 PM
Bound File Name = VFL05242013.0009.RAW
Sample Name = WB
Date Taken = 5/24/2013 5:05:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	55432	0.0795 *
6	3.62	t-Butanol	90070	0.9531
7	4.43	n-Propanol	137628	1.0000

Avg #8 + #9 = 0.079
RLM 5/28/13

WB Control: Cliniqa Lot# 0911120A
Target Value: 0.076
Acceptance Range: 0.068 - 0.083
% recovery: 104%
RLM 5/29/13

13-10-040 13 RLM

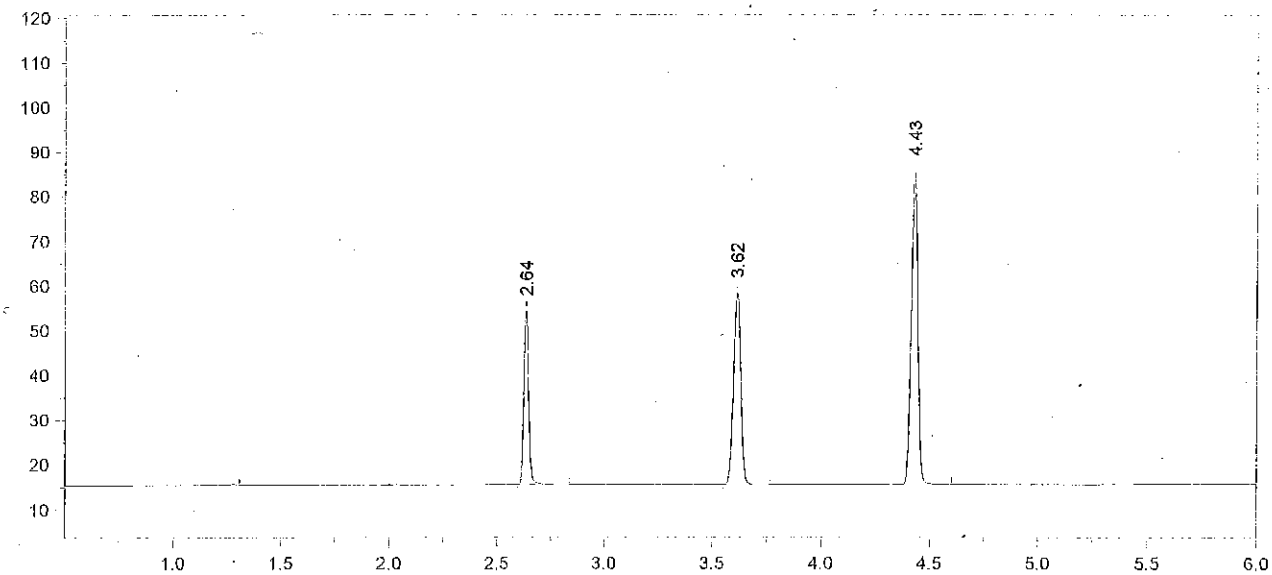


Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 5:23:42 PM
Bound File Name = VFL05242013.0010.RAW
Sample Name = AQ QC
Date Taken = 5/24/2013 5:23:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	58289	0.0776 *
4	3.62	t-Butanol	104643	1.0270
5	4.43	n-Propanol	148402	1.0000

13-10-040 14



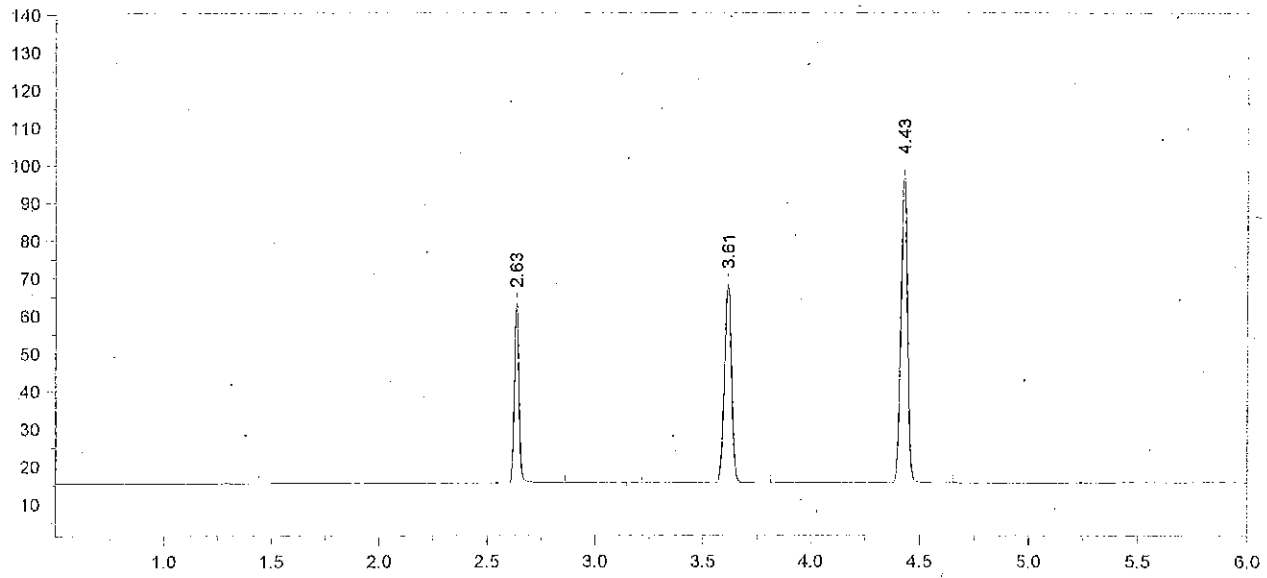
Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 5:37:02 PM
Bound File Name = VFL05242013.0011.RAW
Sample Name = AQ QC
Date Taken = 5/24/2013 5:36:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	59633	0.0793 *
3	3.62	t-Butanol	98357	0.9643
4	4.43	n-Propanol	148544	1.0000

Avg #10 + #11 = 0.078
RLM 5/28/13

13-10-040 15 RLM

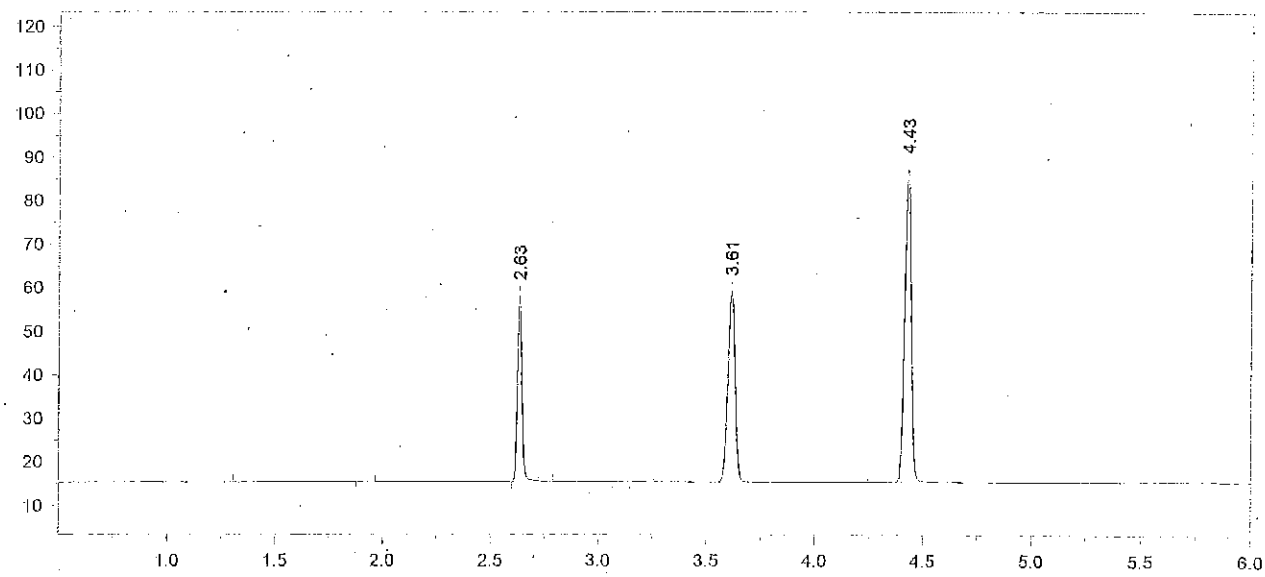


Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 5:53:32 PM
Bound File Name = VFL05242013.0012.RAW
Sample Name = CCS
Date Taken = 5/24/2013 5:53:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	72828	0.0824 *
5	3.61	t-Butanol	121568	1.0146
6	4.43	n-Propanol	174502	1.0000

13-10-040 16 RLM



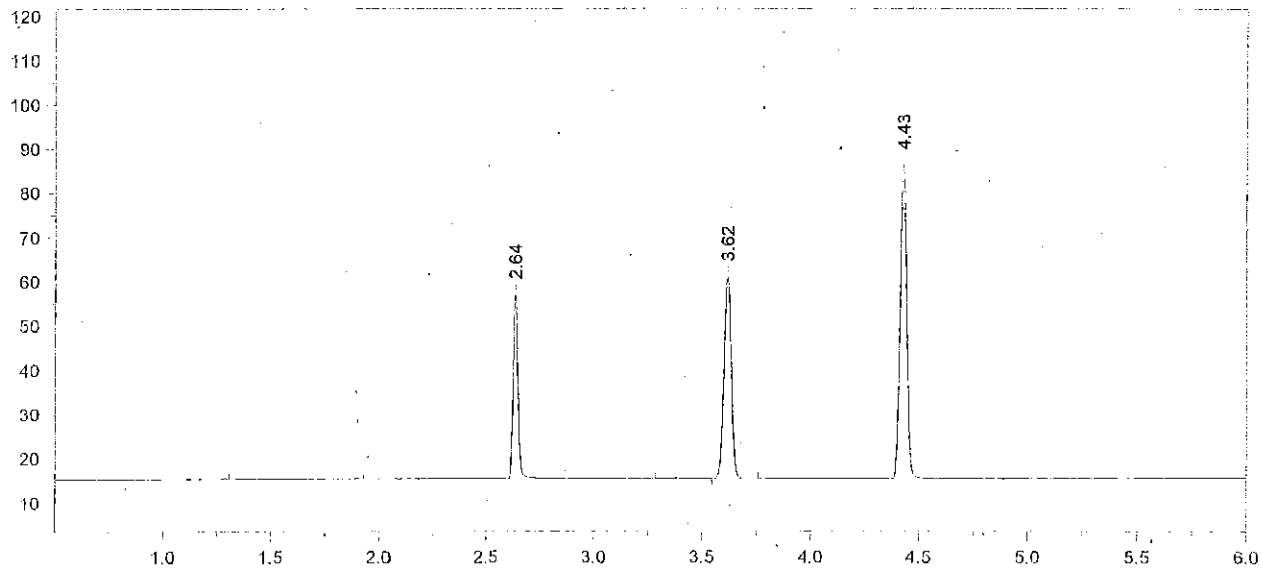
Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 6:08:47 PM
Bound File Name = VFL05242013.0013.RAW
Sample Name = CCS
Date Taken = 5/24/2013 6:08:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	64442	0.0841 *
5	3.61	t-Butanol	100619	0.9691
6	4.43	n-Propanol	151217	1.0000

Avg = 0.083 (#12 + #13)
RZM 5/28/13

13-10-040 17 RZM

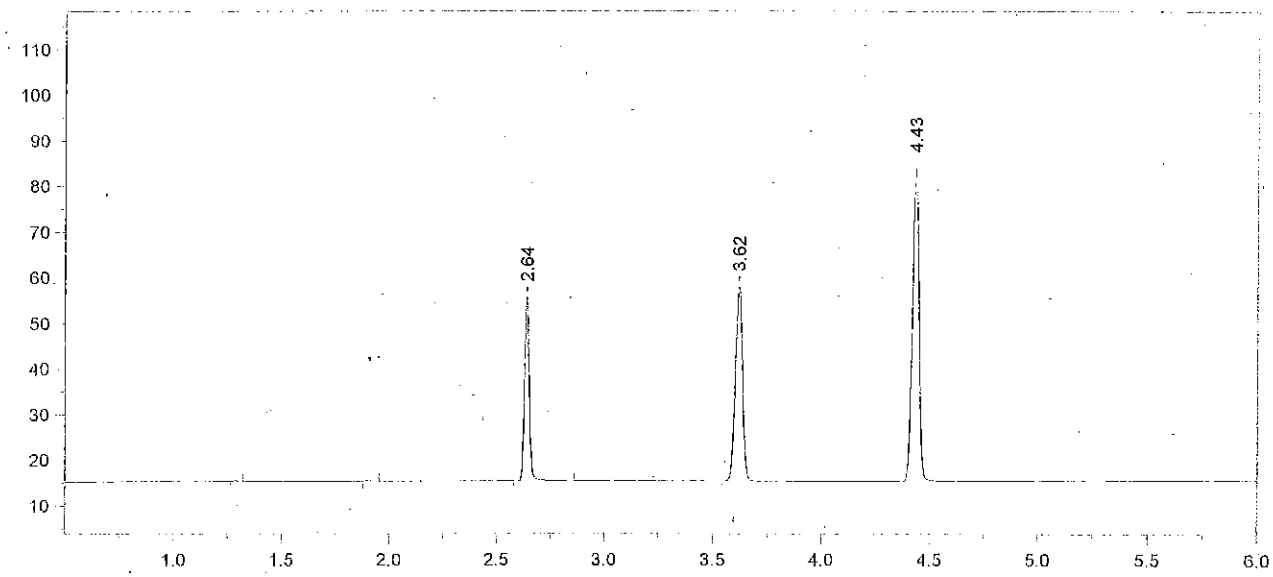


Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 8:30:35 PM
Bound File Name = VFL05242013.0022.RAW
Sample Name = CCS
Date Taken = 5/24/2013 8:30:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	62954	0.0832 *
5	3.62	t-Butanol	104686	1.0208
6	4.43	n-Propanol	149359	1.0000

13-10-040 18



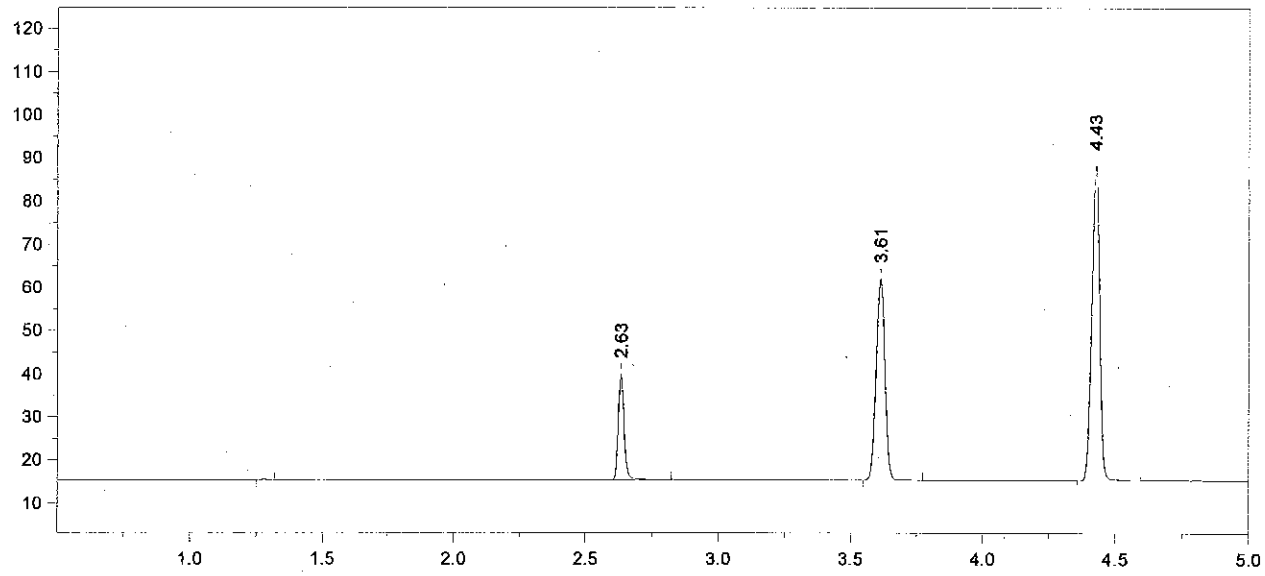
Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 8:44:16 PM
Bound File Name = VFL05242013.0023.RAW
Sample Name = CCS
Date Taken = 5/24/2013 8:44:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	62003	0.0840 *
5	3.62	t-Butanol	98222	0.9815
6	4.43	n-Propanol	145751	1.0000

Avg #22 + #23 = 0.083
RLM 5/28/13

13-10-040 19 RLM

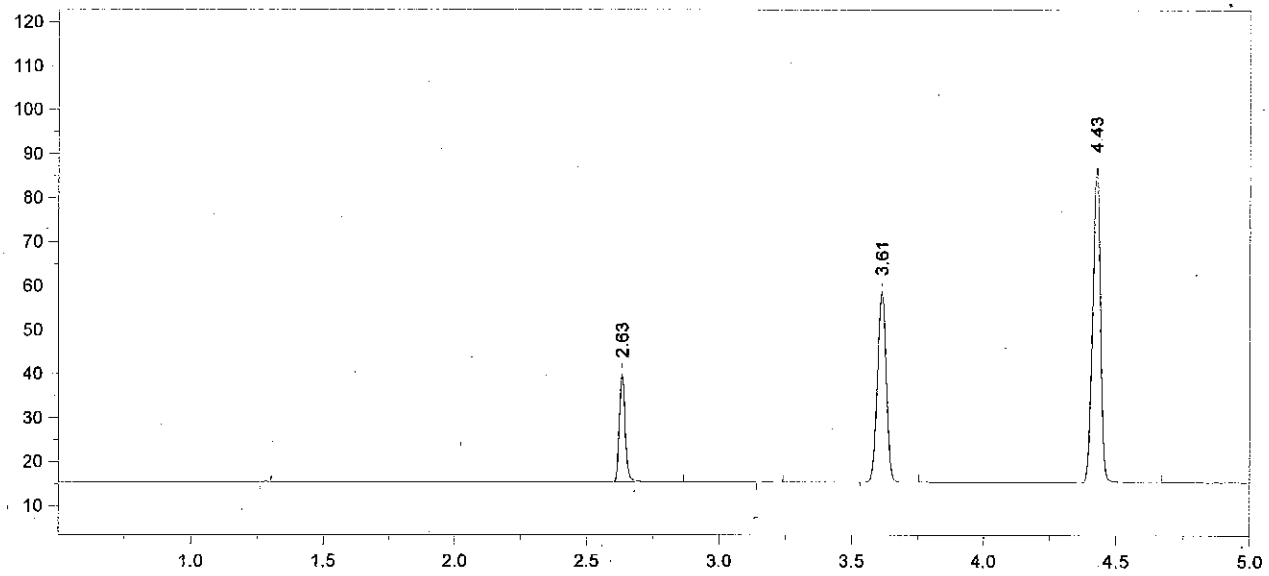


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 9:00:22 PM
Bound File Name = VFL05242013.0024.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 9:00:14 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37587	0.0482	0.0393
3	3.61	t-Butanol	107477	1.0161	0.8293
4	4.43	n-Propanol	154056	1.0000	0.8162

13-10-040 20 RLM

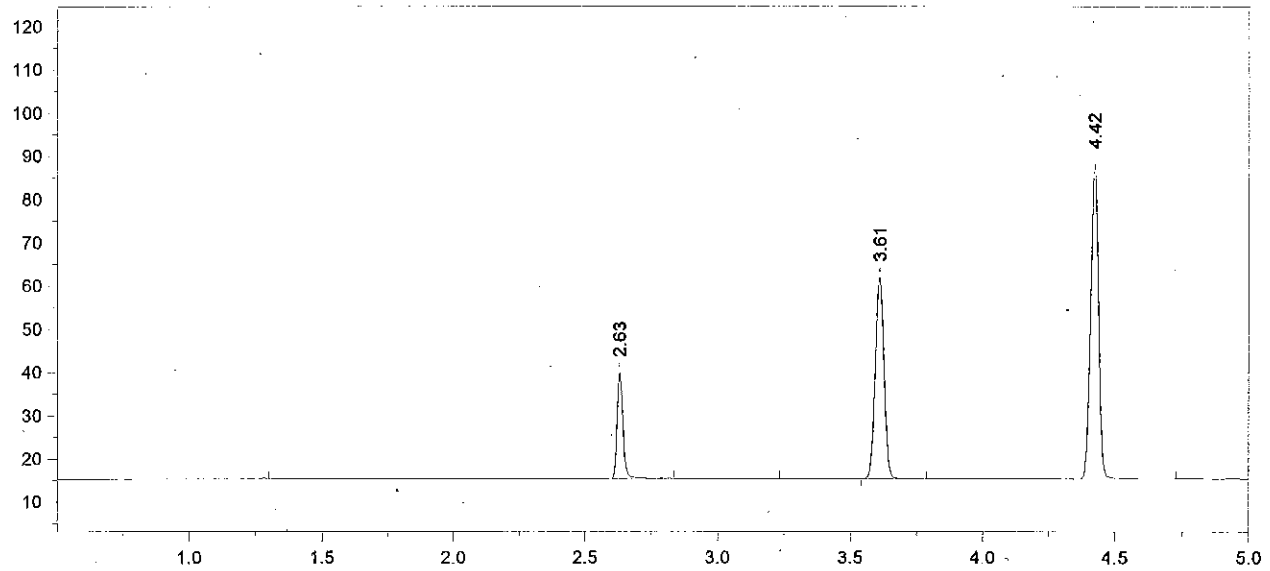


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013
Today's Time = 9:15:45 PM
Bound File Name = VFL05242013.0025.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 9:15:40 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37861	0.0493	0.0402
4	3.61	t-Butanol	99626	0.9567	0.7808
5	4.43	n-Propanol	151667	1.0000	0.8162

13-10-040 21 RLM

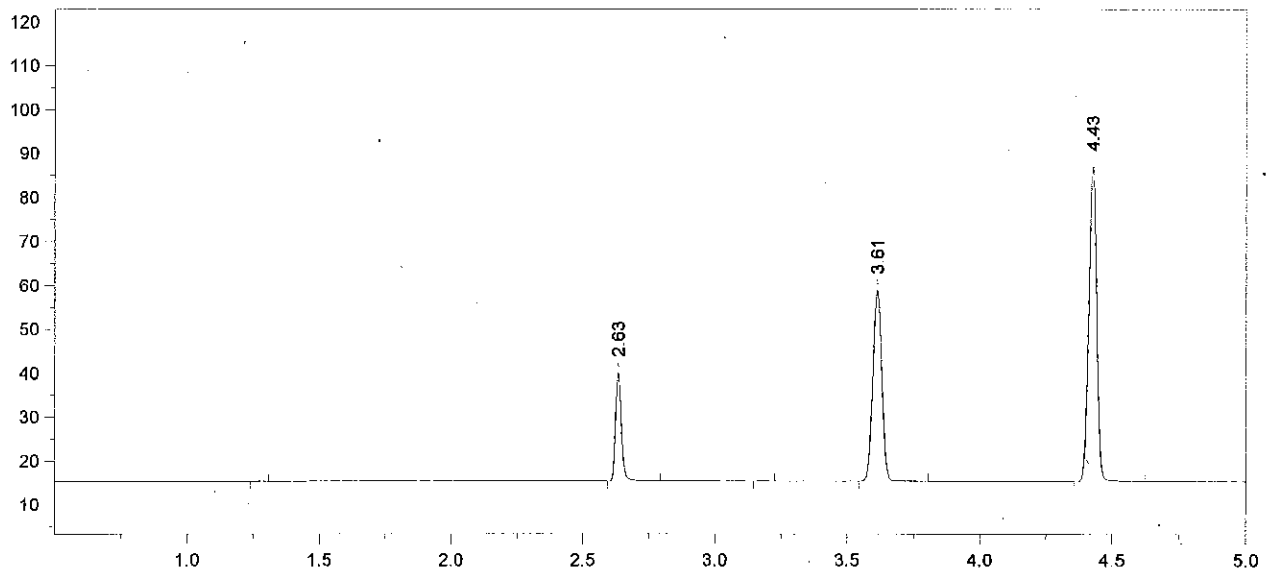


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 9:31:55 PM
Bound File Name = VFL05242013.0026.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 9:31:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37633	0.0482	0.0394
4	3.61	t-Butanol	106890	1.0100	0.8244
5	4.42	n-Propanol	154127	1.0000	0.8162

13-10-040 22 RLM

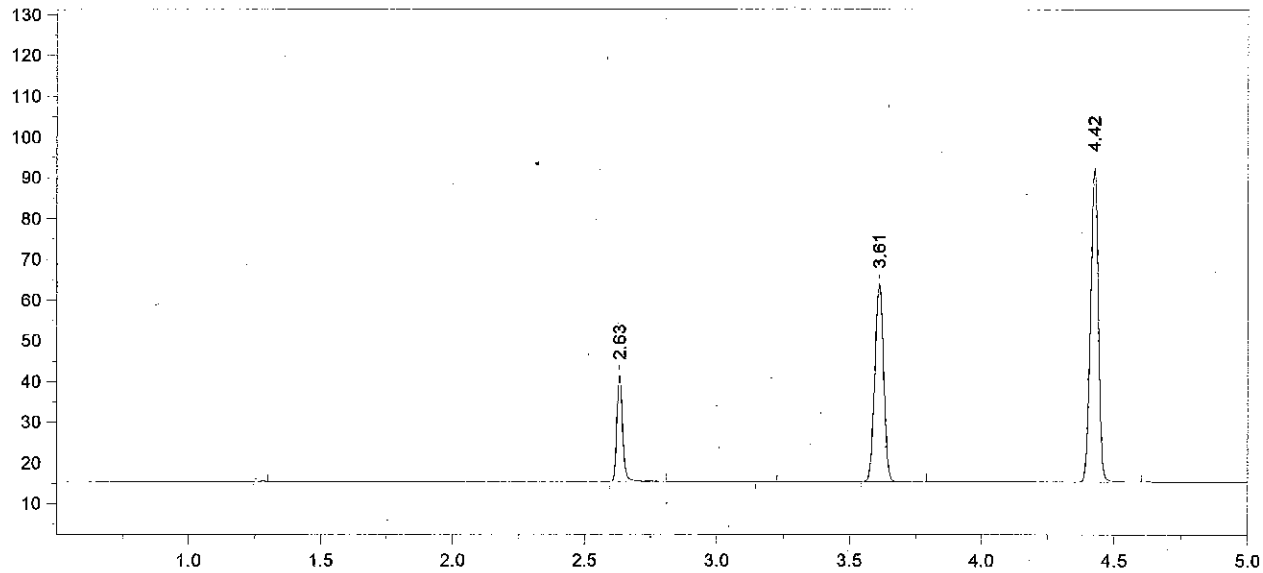


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 9:46:01 PM
Bound File Name = VFL05242013.0027.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 9:45:54 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37796	0.0490	0.0400
4	3.61	t-Butanol	100334	0.9588	0.7826
5	4.43	n-Propanol	152398	1.0000	0.8162

13-10-040 23 RLM

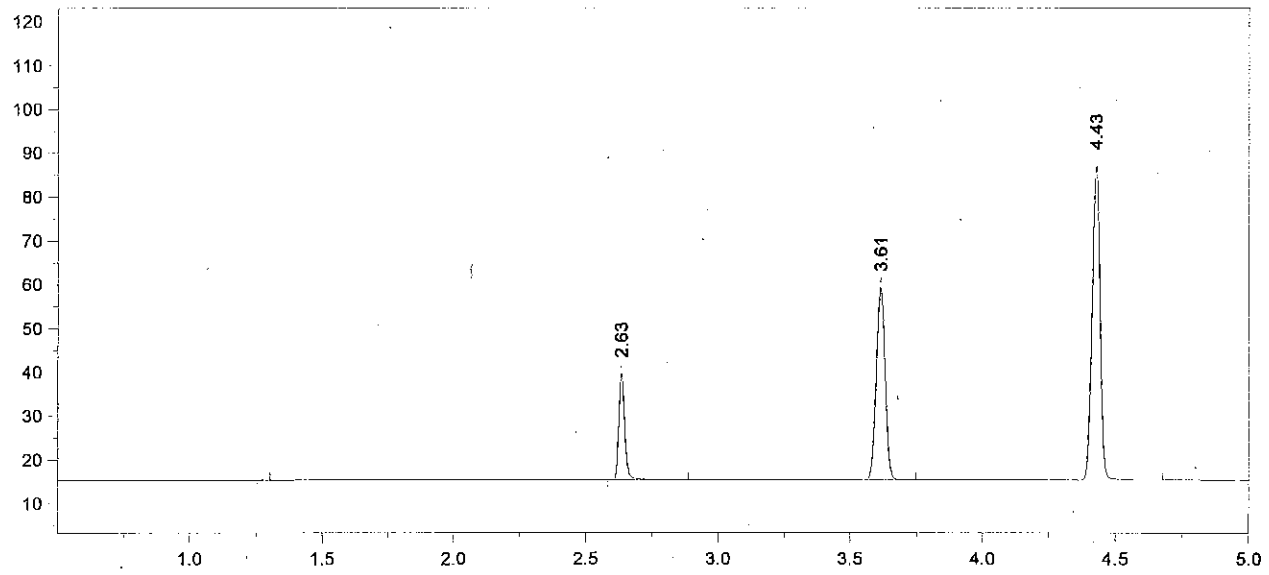


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 10:03:18 PM
Bound File Name = VFL05242013.0028.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 10:03:10 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	39830	0.0484	0.0395
4	3.61	t-Butanol	111896	1.0033	0.8189
5	4.42	n-Propanol	162429	1.0000	0.8162

13-10-040 24 RLM

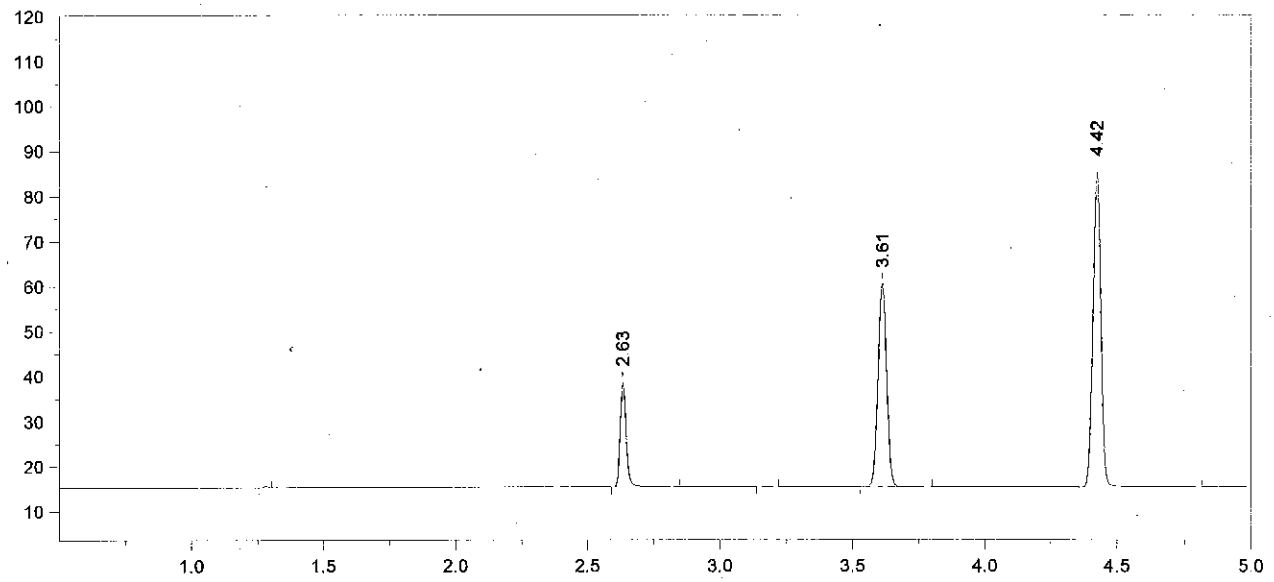


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 10:17:00 PM
Bound File Name = VFL05242013.0029.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 10:16:51 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37841	0.0493	0.0403
3	3.61	t-Butanol	100726	0.9683	0.7903
4	4.43	n-Propanol	151502	1.0000	0.8162

13-10-040 25 RLM

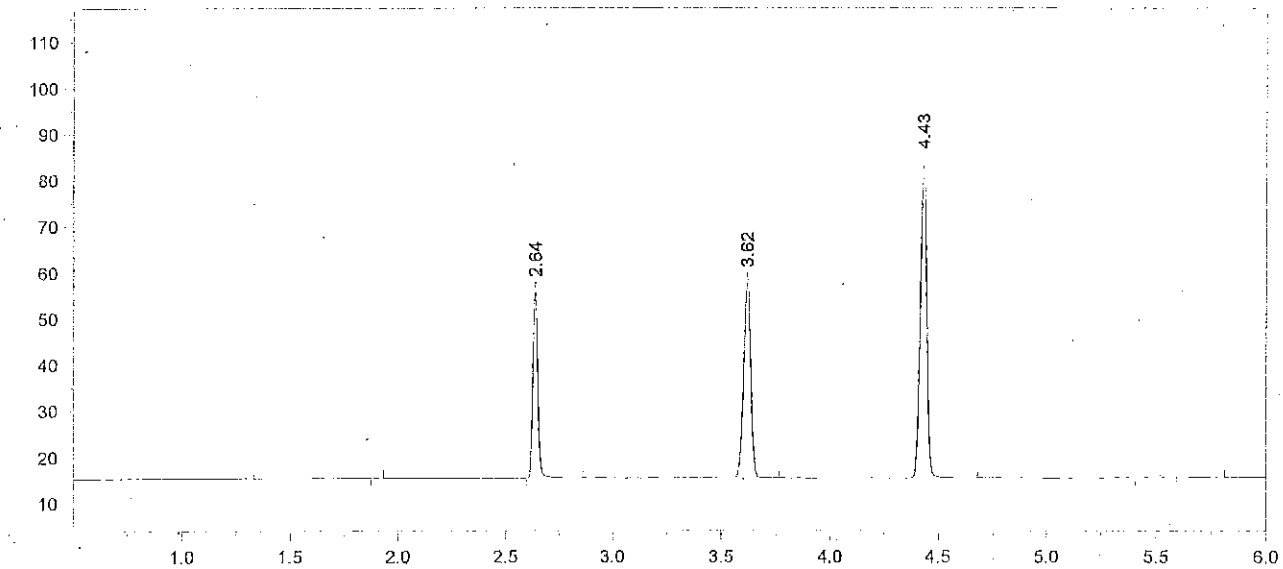


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013
Today's Time = 10:34:42 PM
Bound File Name = VFL05242013.0030.RAW
Sample Name = 0.04 RLM
Date Taken = 5/24/2013 10:34:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	35882	0.0479	0.0391
4	3.61	t-Butanol	103836	1.0228	0.8348
5	4.42	n-Propanol	147851	1.0000	0.8162

13-10-040 26 RLM

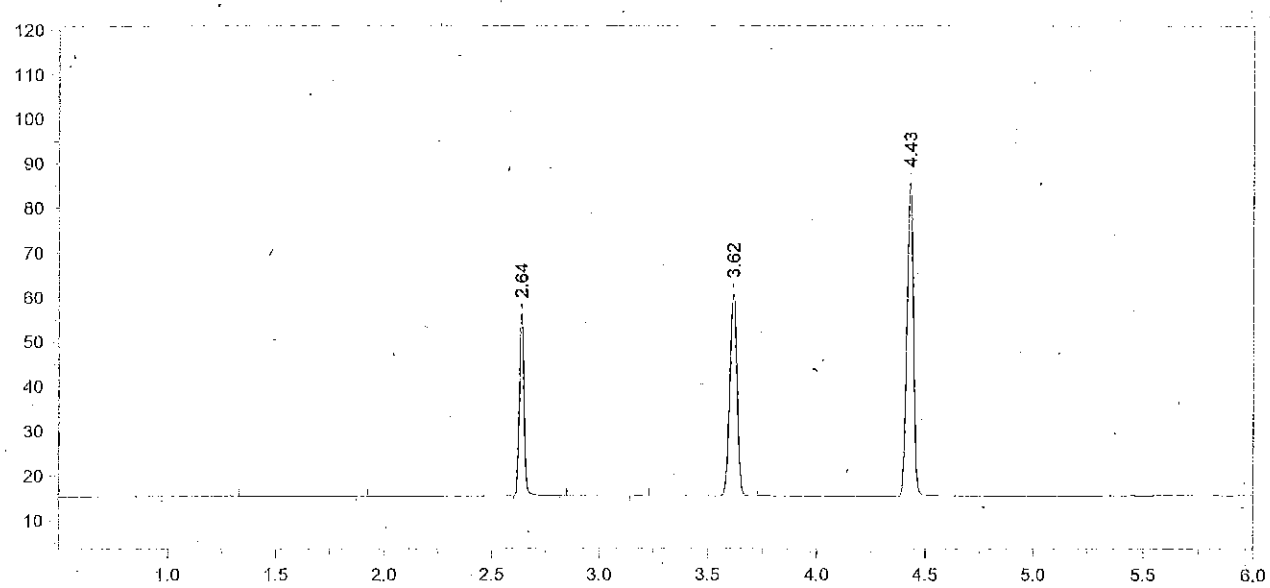


Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 10:48:28 PM
Bound File Name = VFL05242013.0031.RAW
Sample Name = CCS
Date Taken = 5/24/2013 10:48:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	61081	0.0841
5	3.62	t-Butanol	97024	0.9848
6	4.43	n-Propanol	143484	1.0000

13-10-040 27 RJM



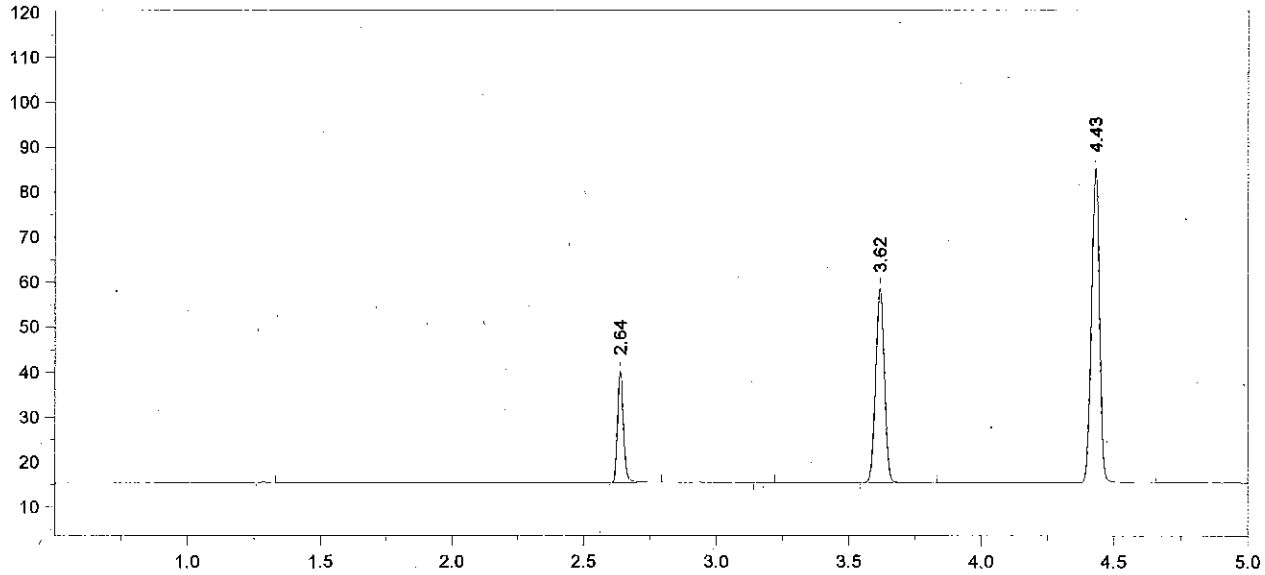
Format File Name = AlcoholVFL.FMT

Today's Date = 5/24/2013
Today's Time = 11:04:30 PM
Bound File Name = VFL05242013.0032.RAW
Sample Name = CCS
Date Taken = 5/24/2013 11:04:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	62265	0.0828 *
5	3.62	t-Butanol	104472	1.0249
6	4.43	n-Propanol	148456	1.0000

Avg #31 + #32 = 0.083
RZM 5/28/13

13-10-040 28 RZM

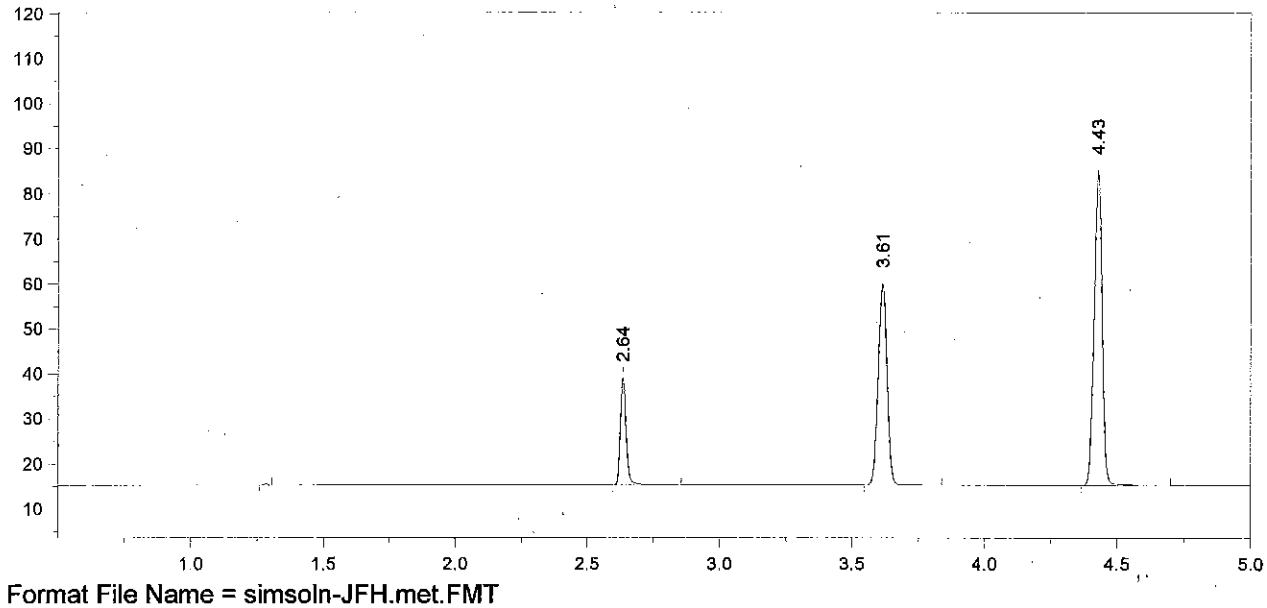


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 11:19:59 PM
Bound File Name = VFL05242013.0033.RAW
Sample Name = 0.04 ALB
Date Taken = 5/24/2013 11:19:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	38017	0.0508	0.0415
4	3.62	t-Butanol	99327	0.9790	0.7990
5	4.43	n-Propanol	147767	1.0000	0.8162

13-10-040 29 RZ

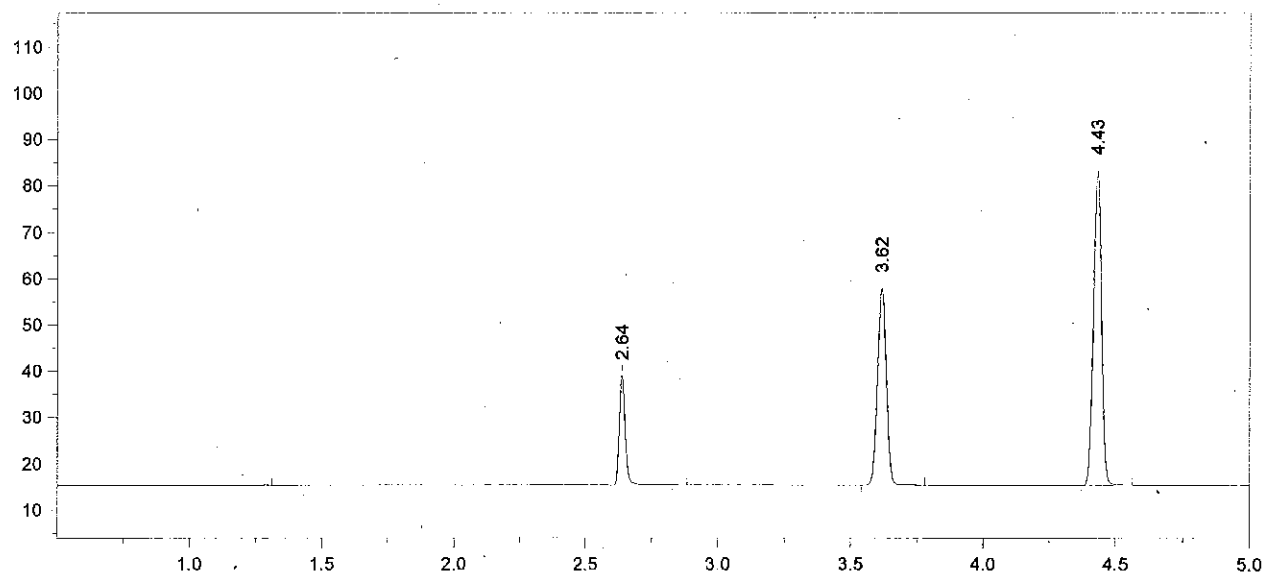


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013
Today's Time = 11:35:59 PM
Bound File Name = VFL05242013.0034.RAW
Sample Name = 0.04 ALB
Date Taken = 5/24/2013 11:35:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	36891	0.0496	0.0405
3	3.61	t-Butanol	103413	1.0252	0.8367
4	4.43	n-Propanol	146915	1.0000	0.8162

13-10-040 30 [illegible]

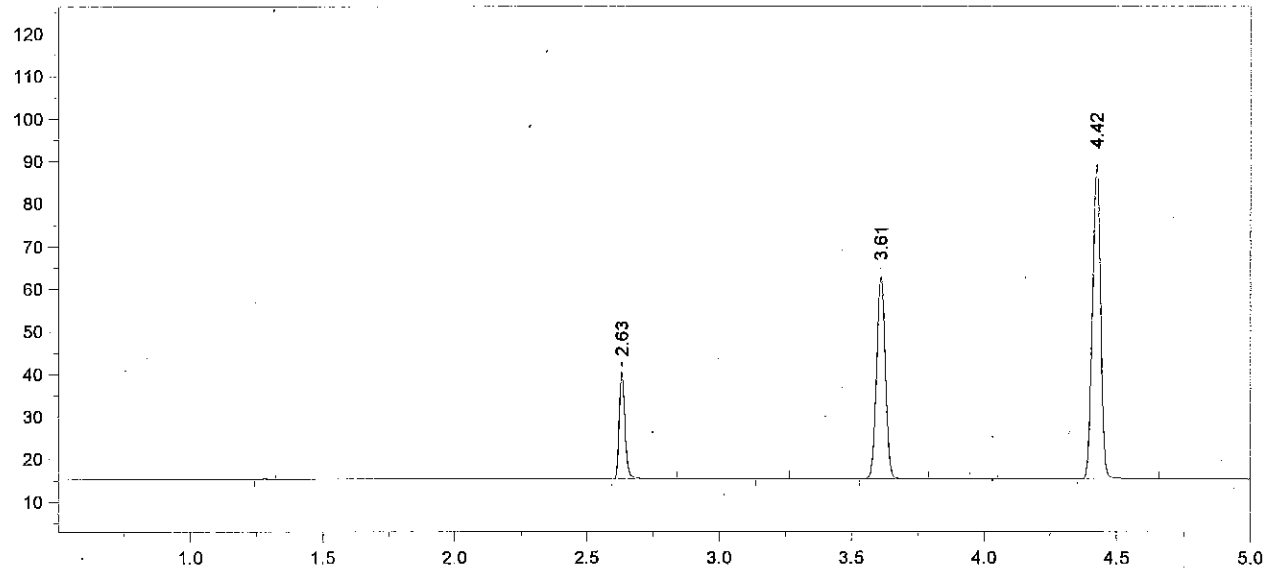


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/24/2013 Today's Time = 11:50:11 PM
Bound File Name = VFL05242013.0035.RAW
Sample Name = 0.04 ALB
Date Taken = 5/24/2013 11:50:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	36591	0.0503	0.0410
3	3.62	t-Butanol	97491	0.9876	0.8060
4	4.43	n-Propanol	143776	1.0000	0.8162

13-10-040 31 RLM

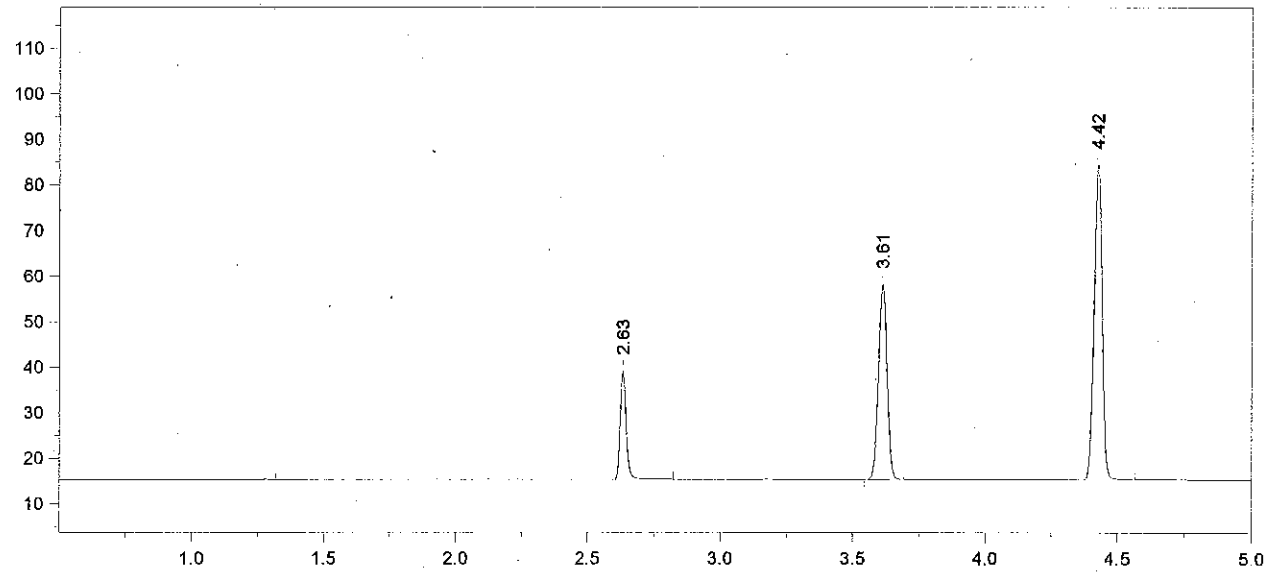


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/25/2013 Today's Time = 12:07:26 AM
Bound File Name = VFL05242013.0036.RAW
Sample Name = 0.04 ALB
Date Taken = 5/25/2013 12:07:20 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	38941	0.0494	0.0403
4	3.61	t-Butanol	109523	1.0244	0.8361
5	4.42	n-Propanol	155711	1.0000	0.8162

13-10-040 32 RLM

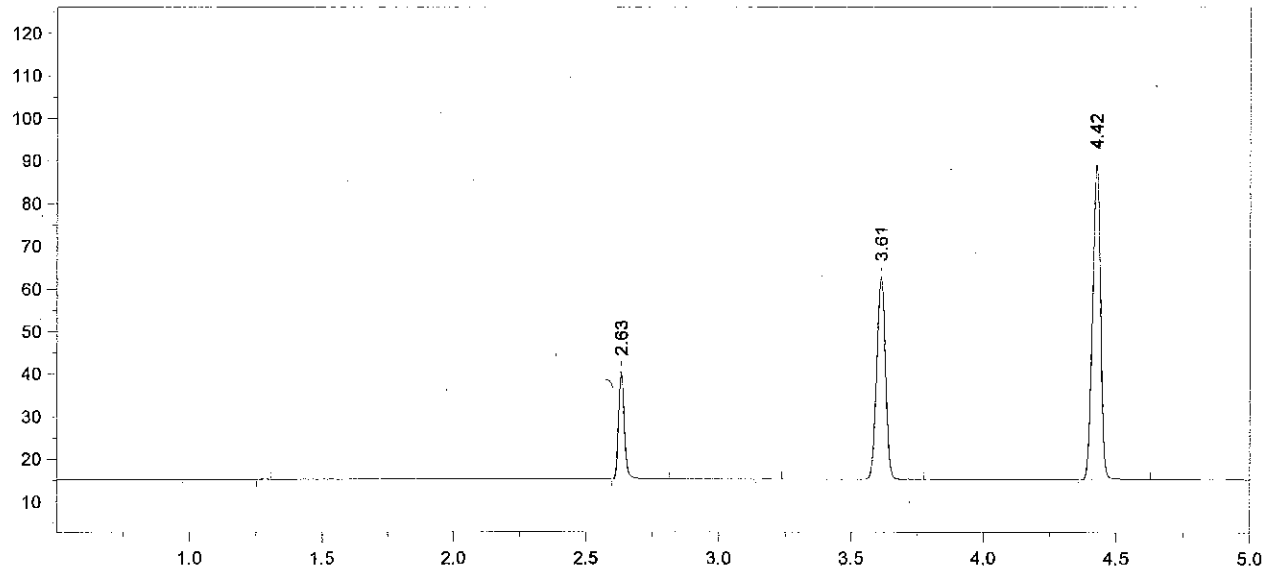


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/25/2013 Today's Time = 12:21:08 AM
Bound File Name = VFL05242013.0037.RAW
Sample Name = 0.04 ALB
Date Taken = 5/25/2013 12:21:01 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	36788	0.0499	0.0407
3	3.61	t-Butanol	98335	0.9828	0.8022
4	4.42	n-Propanol	145716	1.0000	0.8162

13-10-040 33 RZM

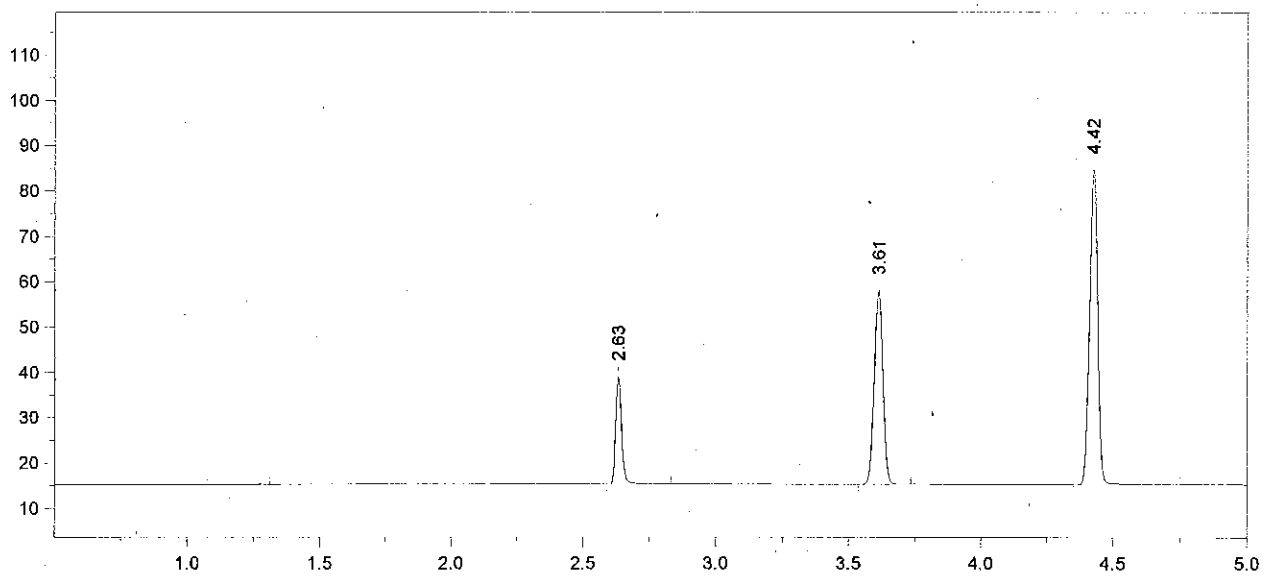


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/25/2013 Today's Time = 12:38:56 AM
Bound File Name = VFL05242013.0038.RAW
Sample Name = 0.04 ALB
Date Taken = 5/25/2013 12:38:46 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	38652	0.0489	0.0399
4	3.61	t-Butanol	109689	1.0231	0.8351
5	4.42	n-Propanol	156138	1.0000	0.8162

13-10-040 34 RLM

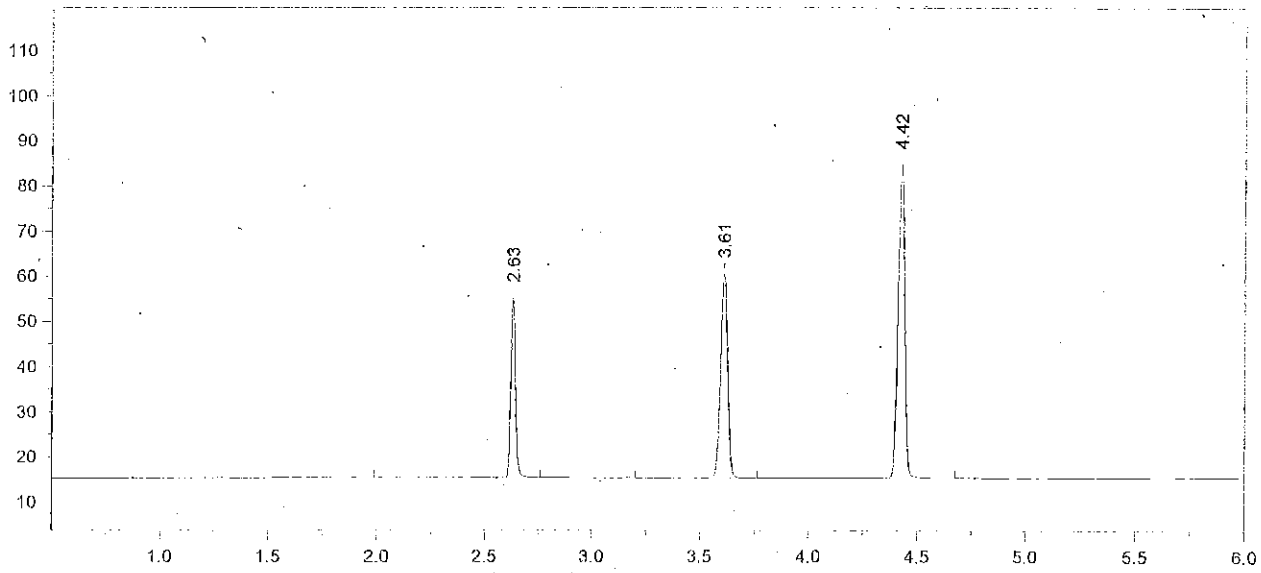


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/25/2013 Today's Time = 12:52:41 AM
Bound File Name = VFL05242013.0039.RAW
Sample Name = 0.04 ALB
Date Taken = 5/25/2013 12:52:32 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	36568	0.0489	0.0400
3	3.61	t-Butanol	98321	0.9707	0.7923
4	4.42	n-Propanol	147517	1.0000	0.8162

13-10-040 35 RKM

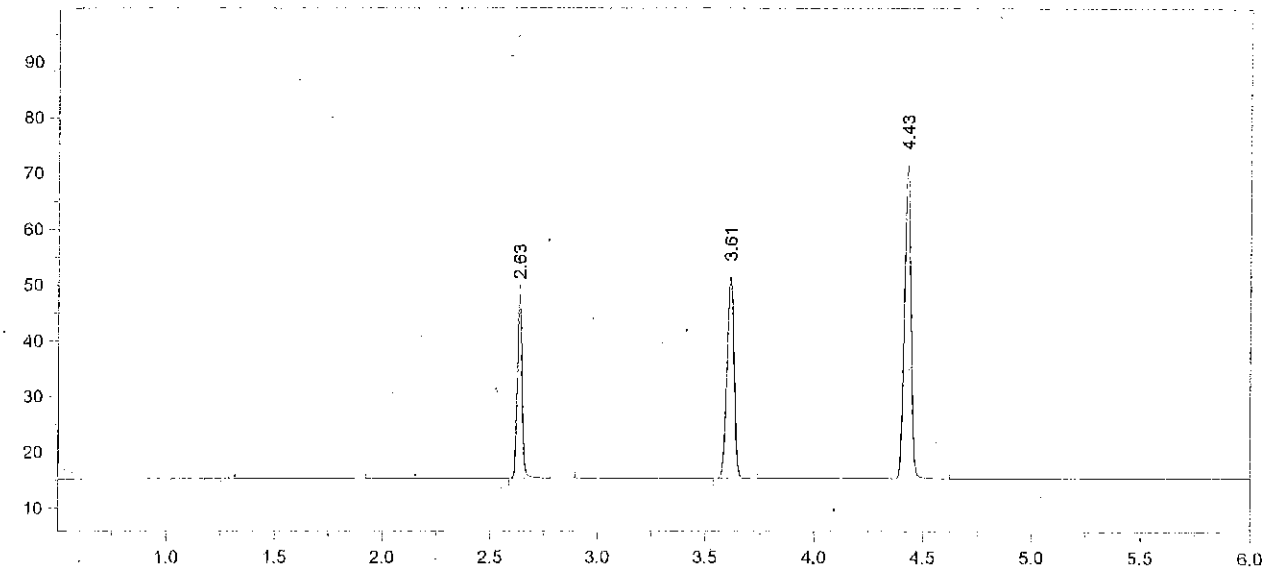


Format File Name = AlcoholVFL.FMT

Today's Date = 5/25/2013
Today's Time = 1:10:23 AM
Bound File Name = VFL05242013.0040.RAW
Sample Name = CCS
Date Taken = 5/25/2013 1:10:14 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	60226	0.0813 *
5	3.61	t-Butanol	103723	1.0325
6	4.42	n-Propanol	146314	1.0000

13-10-040 36 RAM



Format File Name = AlcoholVFL.FMT

Today's Date = 5/25/2013
Today's Time = 1:24:16 AM
Bound File Name = VFL05242013.0041.RAW
Sample Name = CCS
Date Taken = 5/25/2013 1:24:07 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	50313	0.0837 *
4	3.61	t-Butanol	82983	1.0177
5	4.43	n-Propanol	118757	1.0000

Avg #40 + #41 = 0.082
RRM 5/28/13

13-10-040 37 RRM

Headspace Alcohol Analysis Standards Coversheet

Analyst: RLM Date: 5/28/13

5/29/2013

Calibration Standards:

Lot ID: ES-04152013 Preparation Date: 04/15/2013 Expiration Date: 7/15/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check (c)
% Ethanol (w/v)	0.005	0.022	0.084	0.204	0.402	0.084
Acceptance Range (± 10%)	0.006	0.024	0.092	0.224	0.443	0.092
	0.004	0.020	0.075	0.183	0.362	0.075

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	FN021111-03	0.080	0.072	0.088

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.89		
		Methanol	1.99		
		Ethanol	2.63		
		Acetone	3.04		
		Isopropanol	3.17		
		T- butanol	3.61		
		n-propanol	4.42		
3	Standard A		0.005	(Y) N	
4	Standard B		0.021	(Y) N	
5	Standard C		0.083	(Y) N	
6	Standard D		0.199	(Y) N	
7	Standard E		0.405	(Y) N	
8	Aqueous QC		0.0780	(Y) N	Avg = 0.078 (97% recovery) ✓
9	Aqueous QC		0.0793	(Y) N	

13-10-040 38 RLM

File Name: C:\Methods\SIM05282013.CAL
Version: 7

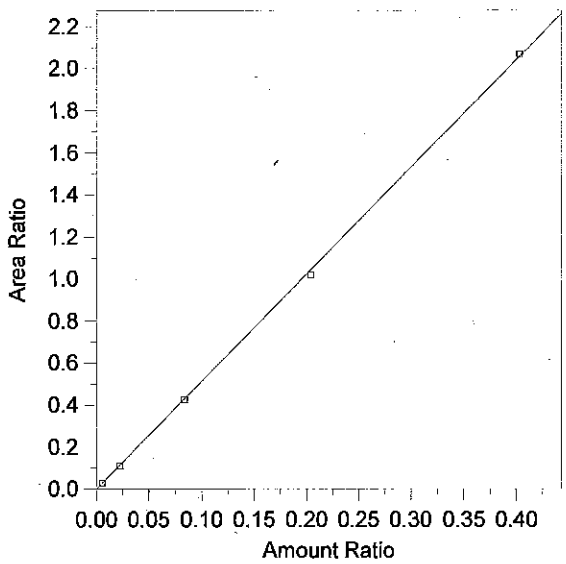
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
Reference peak area reject threshold: 0
Amount units:
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

3 Ethanol



Expected retention time:	2.637 minutes
Search window:	0.1 minutes
Internal standard component:	7 (n-Propanol)
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by area

Y = 5.107408 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9997305
Average error:	1.447%
Average CF:	5.046571
RSD:	1.202%

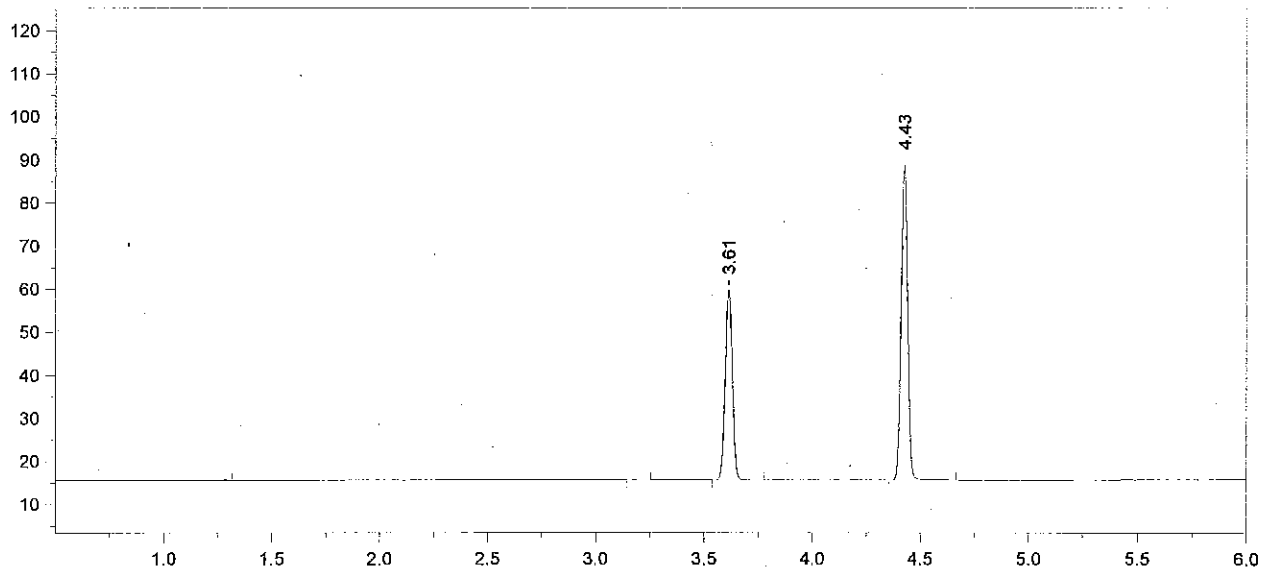
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0055	4673.264	849684.4	-0.994	0.0055	2.781154E-02	C:\Alcohol Data\SIM05282013\SIM05282013.0003.BND	5/28/2013 5:16:36 PM
3	0.0221	17014.47	769885.6	-2.213	0.0221	0.1103756	C:\Alcohol Data\SIM05282013\SIM05282013.0004.BND	5/28/2013 5:33:17 PM
4	0.084	72840.24	867145.8	-1.103	0.084	0.4242885	C:\Alcohol Data\SIM05282013\SIM05282013.0005.BND	5/28/2013 5:46:29 PM
5	0.2037	156920.5	770351	-2.285	0.2037	1.016604	C:\Alcohol Data\SIM05282013\SIM05282013.0006.BND	5/28/2013 6:04:38 PM
6	0.4026	310189	770464.5	0.640	0.4026	2.0694	C:\Alcohol Data\SIM05282013\SIM05282013.0007.BND	5/28/2013 6:18:31 PM

13-10-040 39 RM

File Name = C:\Alcohol Data\SIM05282013\VFL05282013.SEQ
Version = 1
File Date = 5/28/2013 4:07:50 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM05282013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM05282013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM05282013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM05282013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM05282013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM05282013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM05282013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM05282013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM05282013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM05282013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM05282013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM05282013.0012.raw	simsoln.met	0.04 RLM	1.00	1.00
13	SIM05282013.0013.raw	simsoln.met	0.04 RLM	1.00	1.00
14	SIM05282013.0014.raw	simsoln.met	0.04 RLM	1.00	1.00
15	SIM05282013.0015.raw	simsoln.met	0.04 RLM	1.00	1.00
16	SIM05282013.0016.raw	simsoln.met	0.04 RLM	1.00	1.00
17	SIM05282013.0017.raw	simsoln.met	0.04 RLM	1.00	1.00
18	SIM05282013.0018.raw	simsoln.met	0.04 RLM	1.00	1.00
19	SIM05282013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM05282013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM05282013.0021.raw	simsoln.met	0.04 ALB	1.00	1.00
22	SIM05282013.0022.raw	simsoln.met	0.04 ALB	1.00	1.00
23	SIM05282013.0023.raw	simsoln.met	0.04 ALB	1.00	1.00
24	SIM05282013.0024.raw	simsoln.met	0.04 ALB	1.00	1.00
25	SIM05282013.0025.raw	simsoln.met	0.04 ALB	1.00	1.00
26	SIM05282013.0026.raw	simsoln.met	0.04 ALB	1.00	1.00
27	SIM05282013.0027.raw	simsoln.met	0.04 ALB	1.00	1.00
28	SIM05282013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM05282013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-10-040 40 RLM

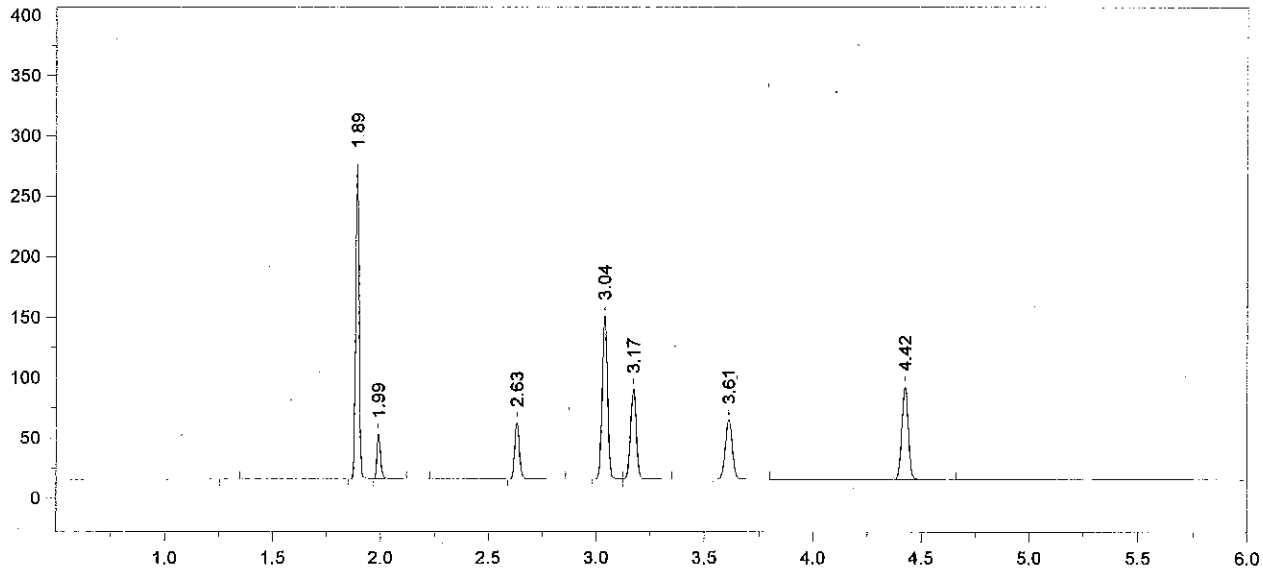


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:43:58 AM
Bound File Name = SIM05282013.0001.RAW
Sample Name = Blank
Date Taken = 5/28/2013 4:45:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.61	t-Butanol	101073	0.9574
4	4.43	n-Propanol	155150	1.0000

13-10-040 41 RM

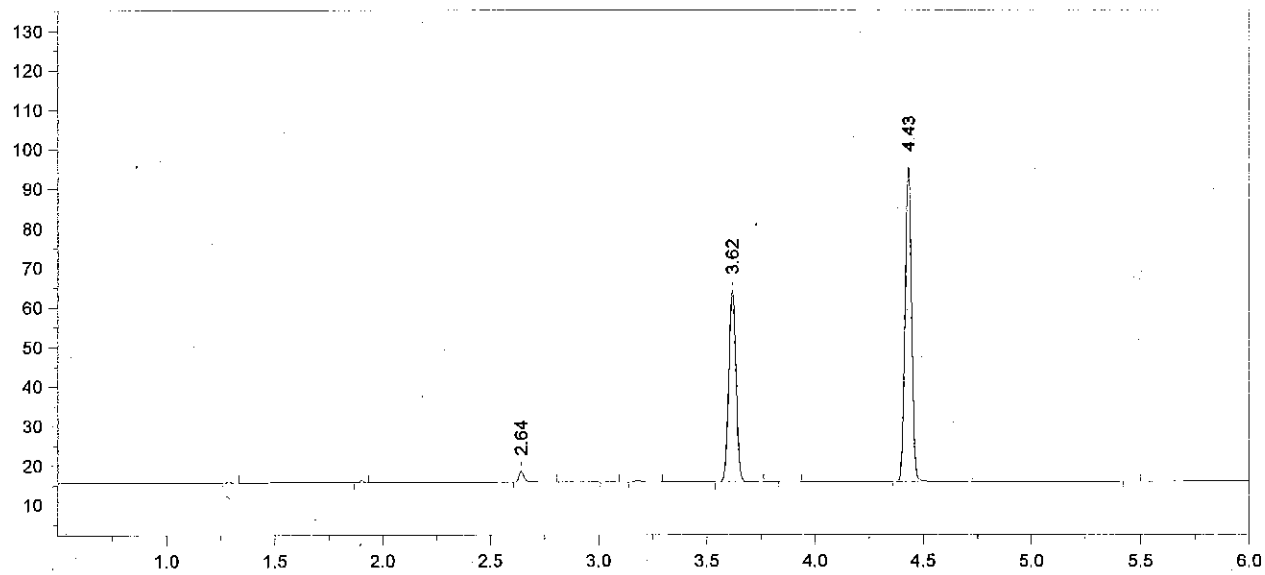


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:44:03 AM
Bound File Name = SIM05282013.0002.RAW
Sample Name = TMX
Date Taken = 5/28/2013 5:01:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.89	Acetaldehyde	295135	0.0720
3	1.99	Methanol	43659	0.1210
4	2.63	Ethanol	71171	0.0858
5	3.04	Acetone	228929	0.0690
6	3.17	Isopropanol	138912	0.0830
7	3.61	t-Butanol	112775	1.0208
8	4.42	n-Propanol	162354	1.0000

13-10-040 42 RLM

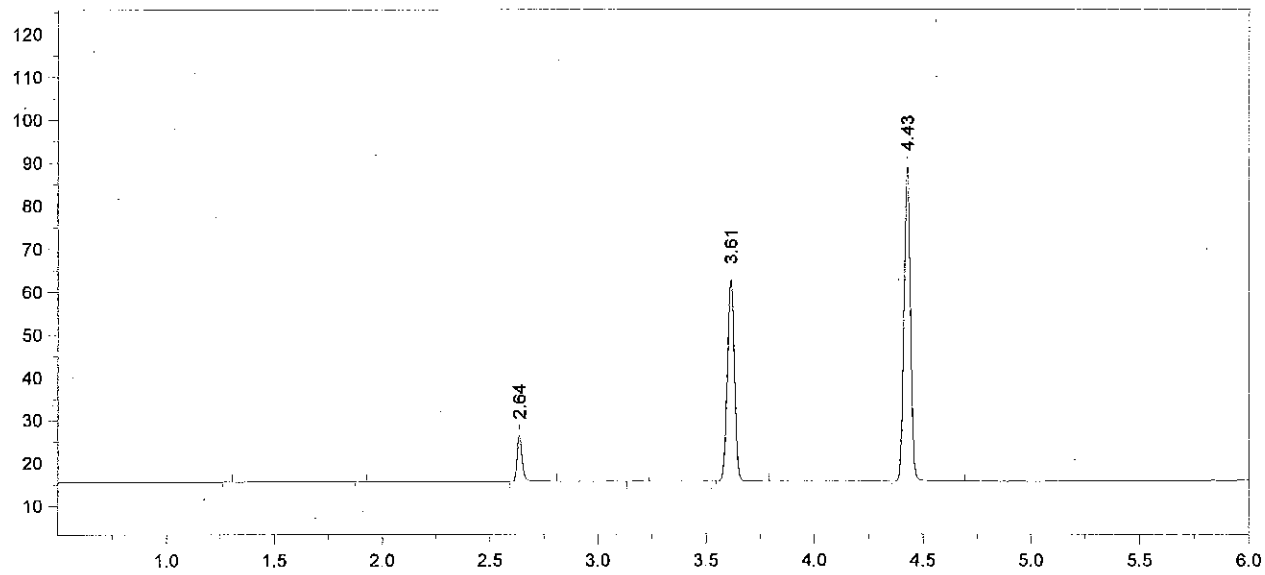


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:44:09 AM
Bound File Name = SIM05282013.0003.RAW
Sample Name = STD A
Date Taken = 5/28/2013 5:16:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	04673	0.0054 *
6	3.62	t-Butanol	111653	0.9765
8	4.43	n-Propanol	168033	1.0000

13-10-040 43 RLM

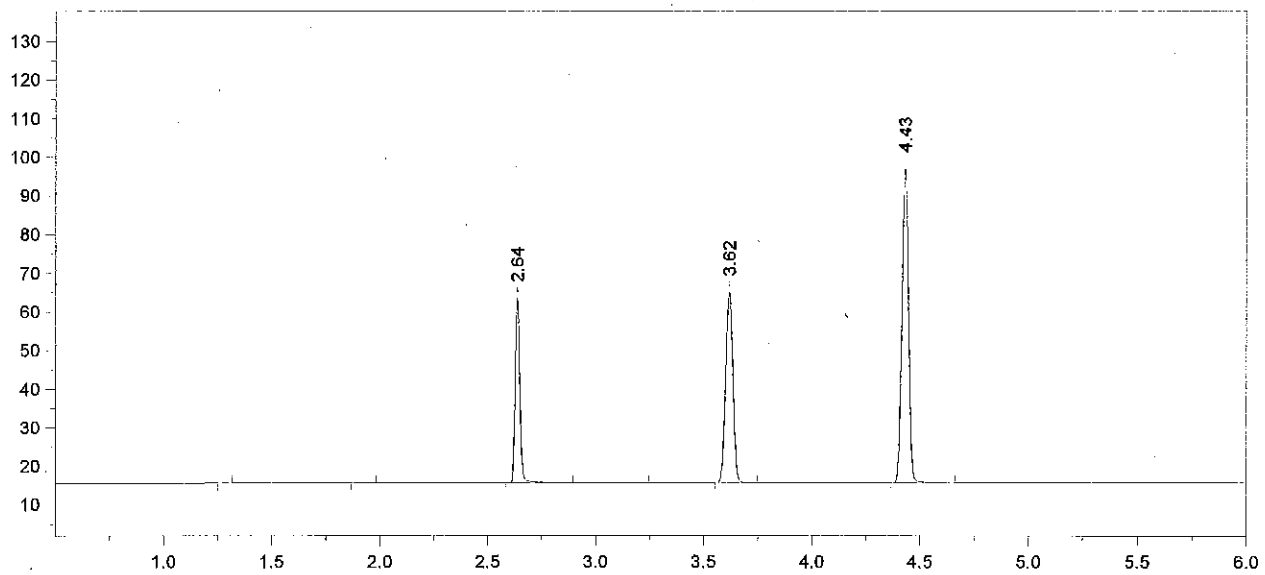


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:44:14 AM
Bound File Name = SIM05282013.0004.RAW
Sample Name = STD B
Date Taken = 5/28/2013 5:33:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	17014	0.0216 *
5	3.61	t-Butanol	107960	1.0293
6	4.43	n-Propanol	154151	1.0000

13-10-040 44 RM

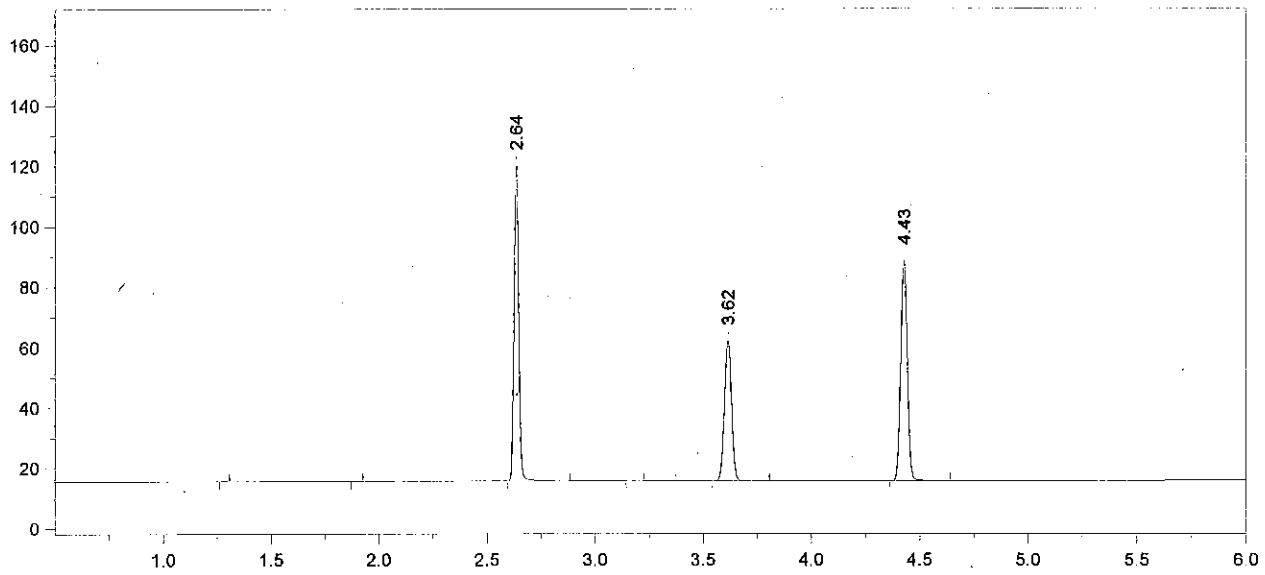


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:44:21 AM
Bound File Name = SIM05282013.0005.RAW
Sample Name = STD C
Date Taken = 5/28/2013 5:46:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	72840	0.0831 *
5	3.62	t-Butanol	113799	0.9742
6	4.43	n-Propanol	171676	1.0000

13-10-040 45 RLM

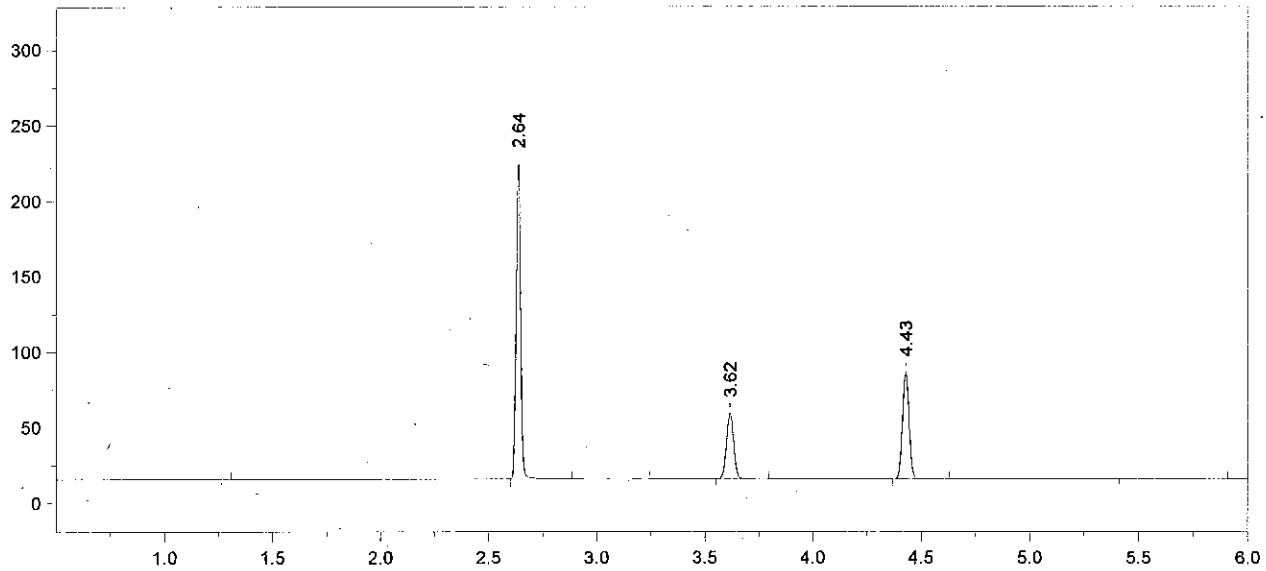


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:44:27 AM
Bound File Name = SIM05282013.0006.RAW
Sample Name = STD D
Date Taken = 5/28/2013 6:04:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	156921	0.1990 *
5	3.62	t-Butanol	107167	1.0203
6	4.43	n-Propanol	154358	1.0000

13-10-040 46 RLM

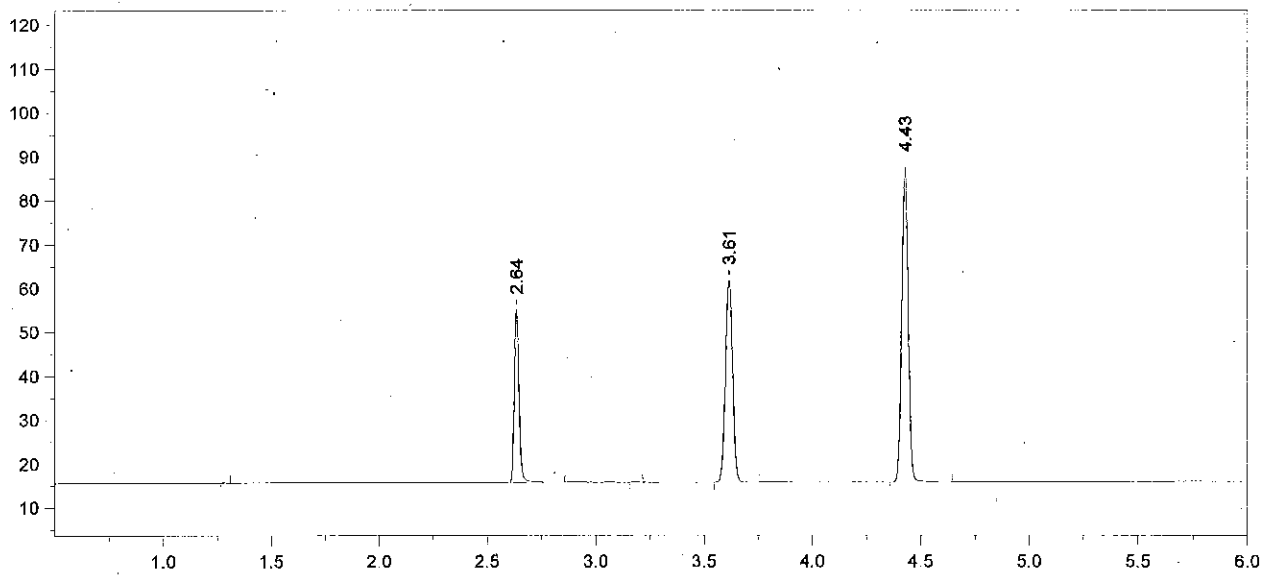


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 7:44:33 AM
Bound File Name = SIM05282013.0007.RAW
Sample Name = STD E
Date Taken = 5/28/2013 6:18:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	310189	0.4052 *
4	3.62	t-Butanol	99837	0.9789
5	4.43	n-Propanol	149893	1.0000

13-10-040 47 RZM

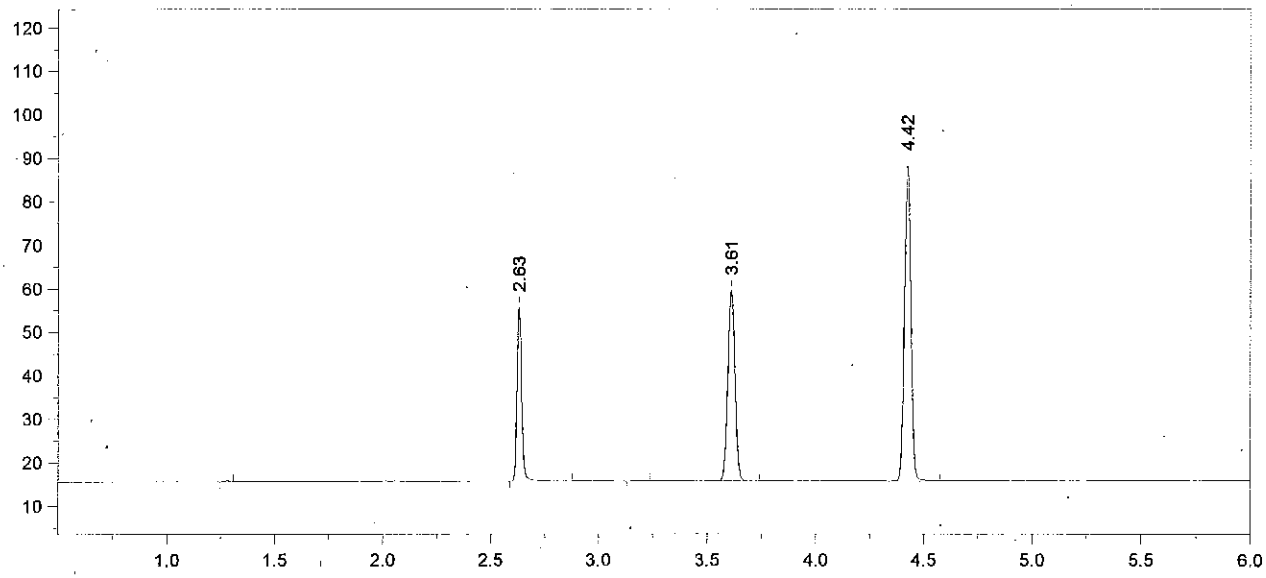


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 6:36:05 PM
Bound File Name = SIM05282013.0008.RAW
Sample Name = AQ QC
Date Taken = 5/28/2013 6:36:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	60156	0.0780 *
4	3.61	t-Butanol	105855	1.0297
5	4.43	n-Propanol	151074	1.0000

13-10-040 48 RLM



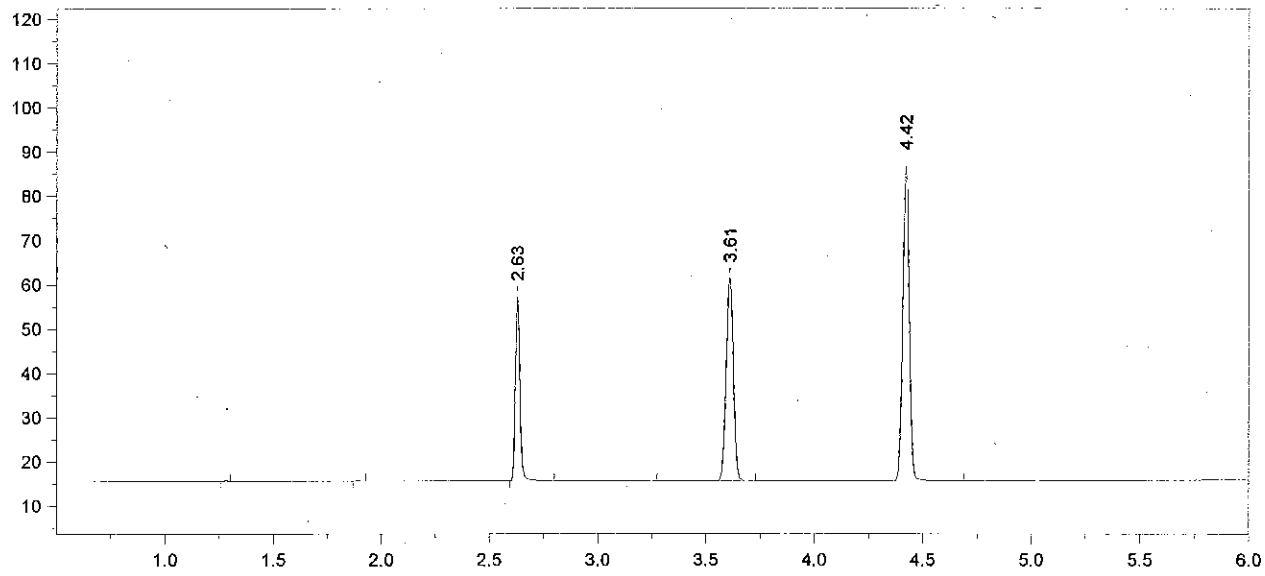
Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 6:50:00 PM
Bound File Name = SIM05282013.0009.RAW
Sample Name = AQ QC
Date Taken = 5/28/2013 6:49:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	61537	0.0793 *
4	3.61	t-Butanol	100990	0.9767
5	4.42	n-Propanol	151963	1.0000

Avg #8 + #9 = 0.078
RKM 5/29/13

13-10-040 49 RKM

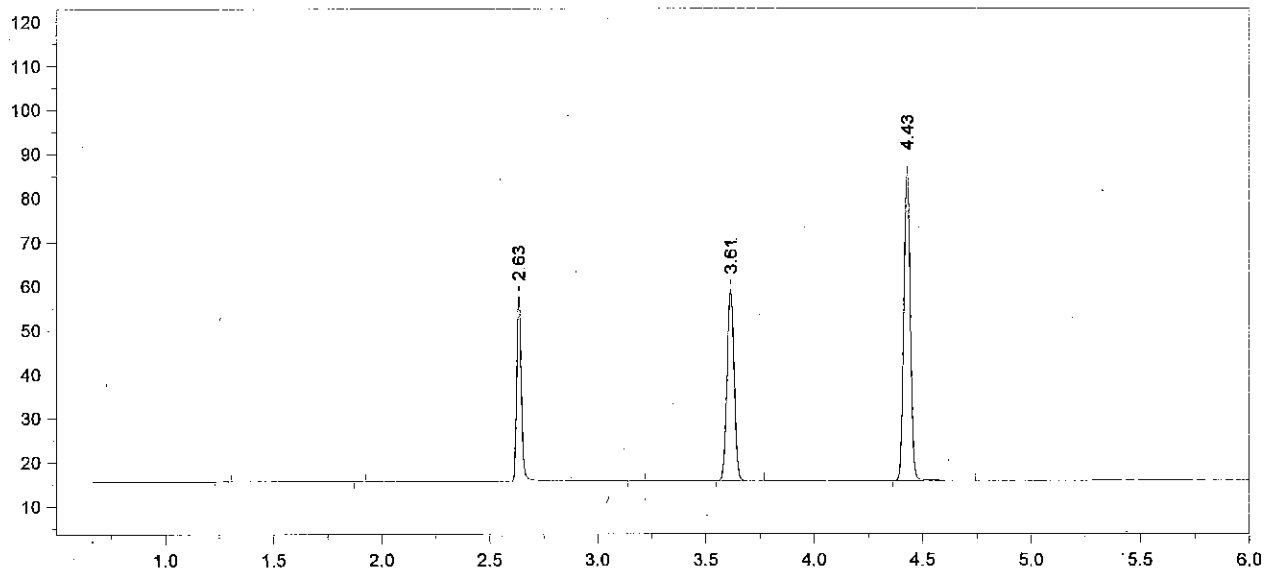


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:07:36 PM
Bound File Name = SIM05282013.0010.RAW
Sample Name = CCS
Date Taken = 5/28/2013 7:07:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	62744	0.0817 *
5	3.61	t-Butanol	105074	1.0270
6	4.42	n-Propanol	150363	1.0000

13-10-040 50 RM



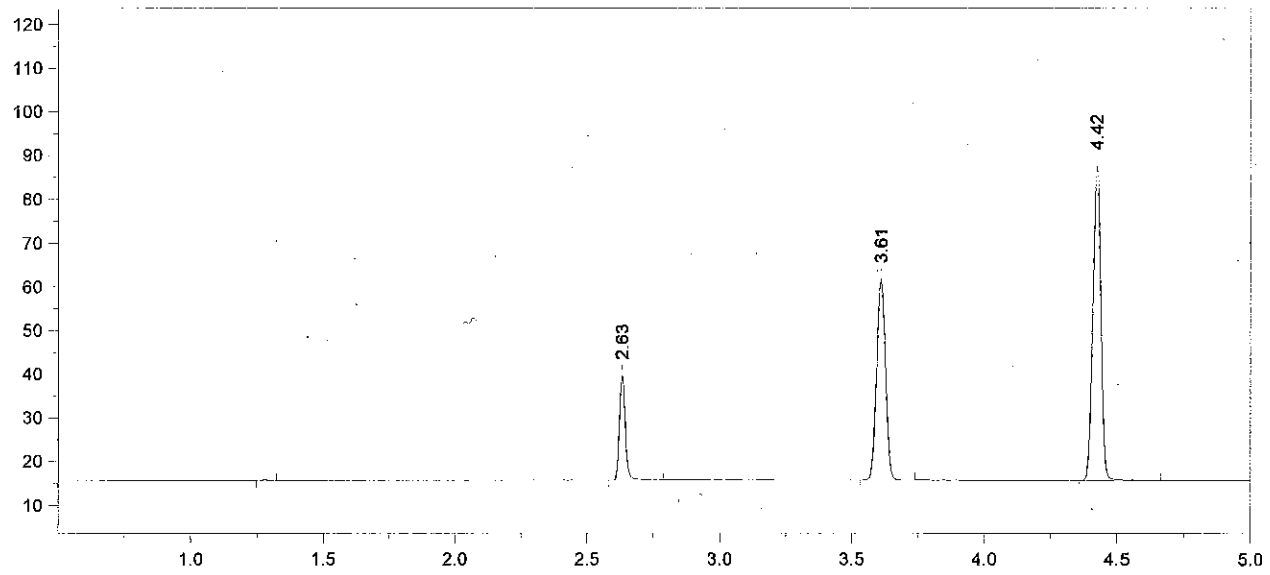
Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 7:21:15 PM
Bound File Name = SIM05282013.0011.RAW
Sample Name = CCS
Date Taken = 5/28/2013 7:21:11 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	64157	0.0833 *
5	3.61	t-Butanol	100087	0.9749
6	4.43	n-Propanol	150874	1.0000

Avg #10 + #11 = 0.082
RLM 5/29/13

13-10-040 51 RLM

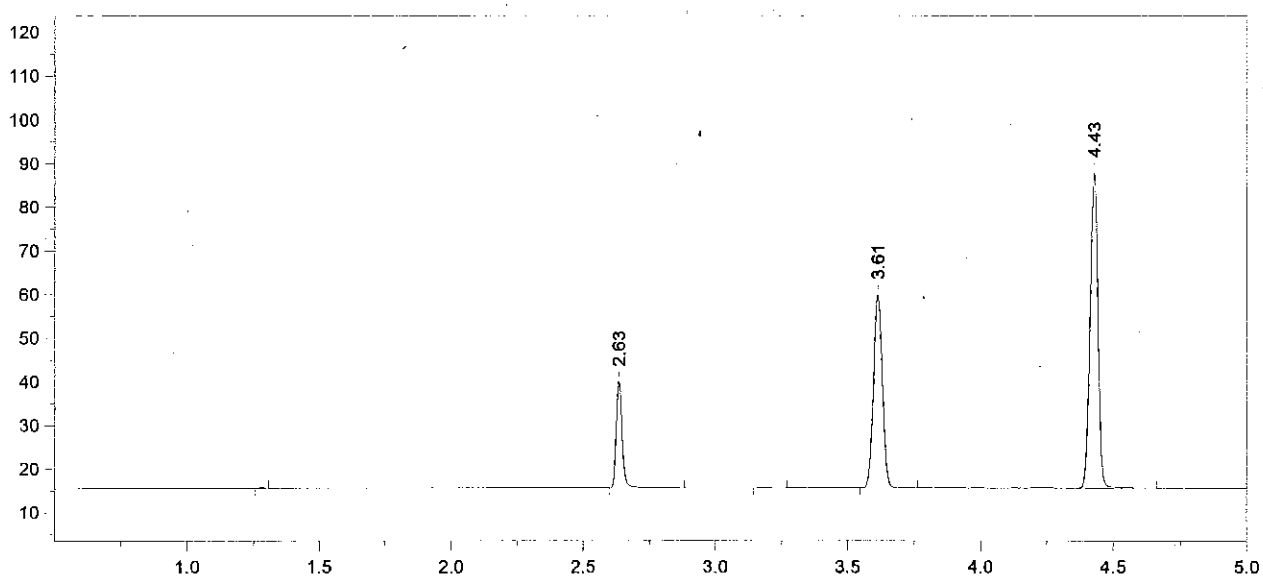


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 7:38:59 PM
Bound File Name = SIM05282013.0012.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 7:38:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	36963	0.0477	0.0389
3	3.61	t-Butanol	106037	1.0263	0.8377
4	4.42	n-Propanol	151839	1.0000	0.8162

13-10-040 52 RLM

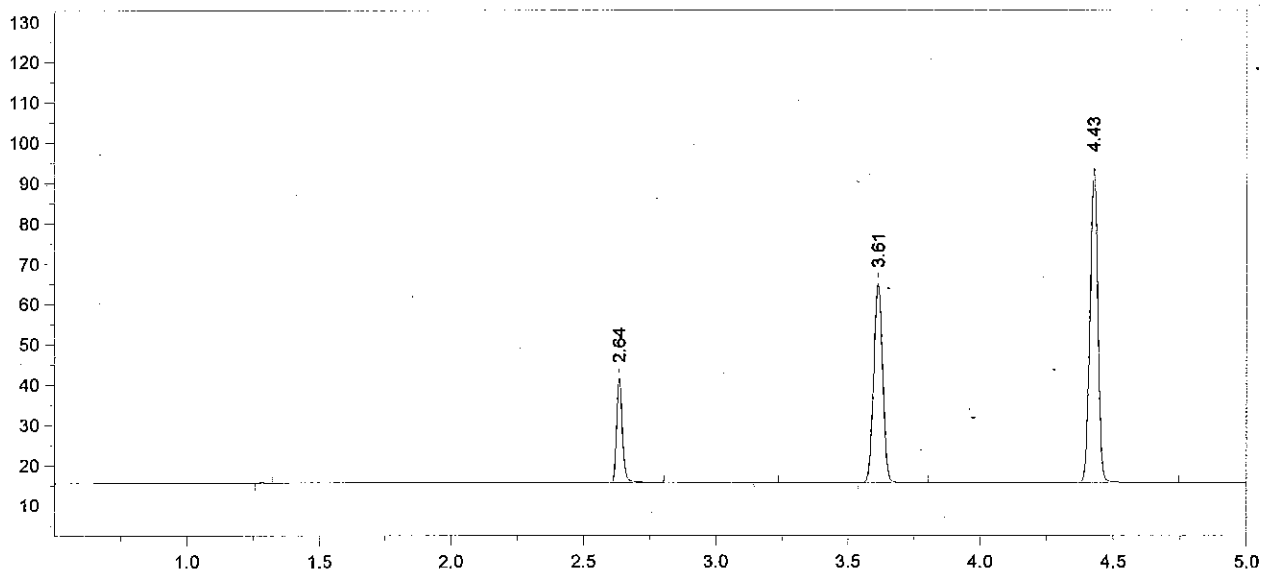


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013
Today's Time = 7:52:10 PM
Bound File Name = SIM05282013.0013.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 7:52:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37820	0.0486	0.0397
4	3.61	t-Butanol	101328	0.9782	0.7984
5	4.43	n-Propanol	152233	1.0000	0.8162

13-10-040 53 RLM

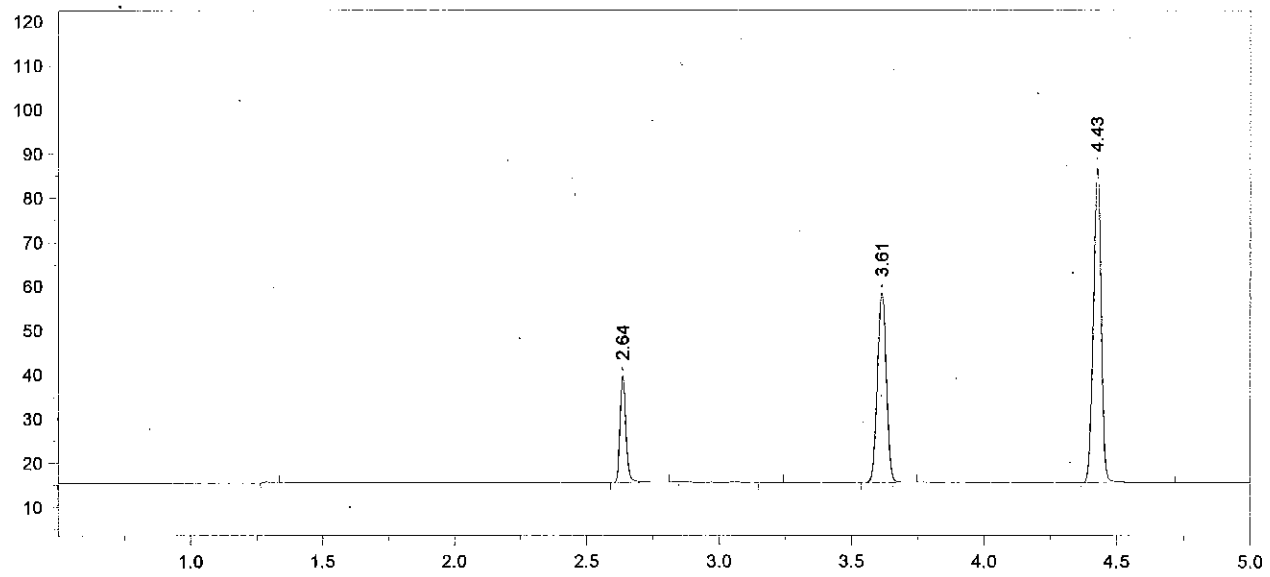


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 8:08:44 PM
Bound File Name = SIM05282013.0014.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 8:08:36 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	39867	0.0475	0.0388
4	3.61	t-Butanol	113602	1.0155	0.8288
5	4.43	n-Propanol	164408	1.0000	0.8162

13-10-040 54 RLM

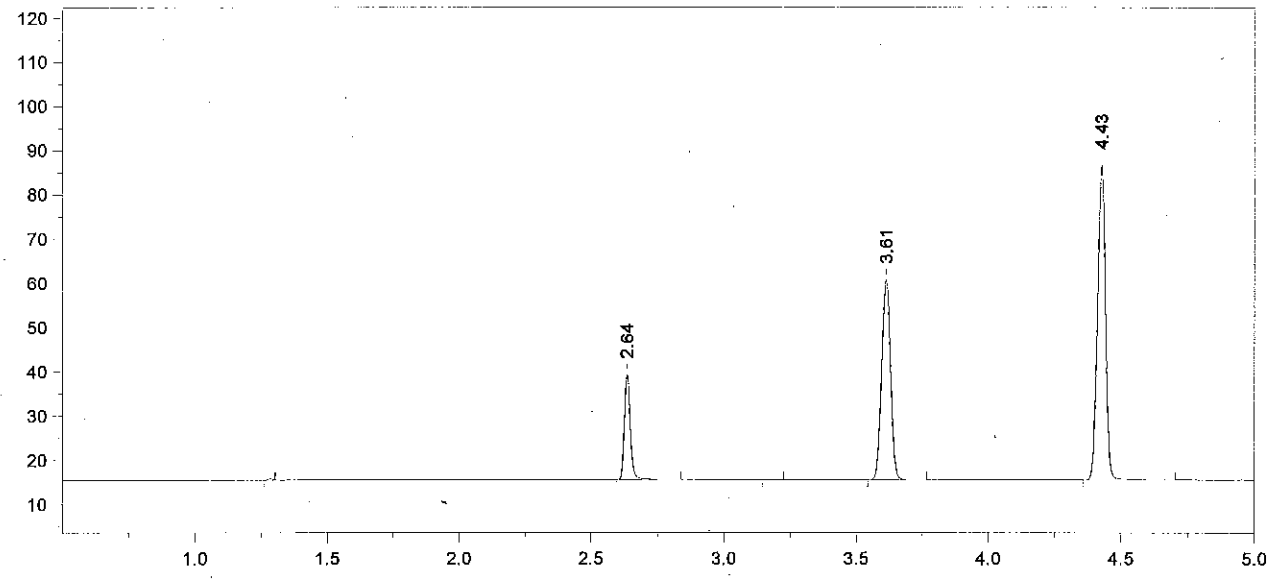


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 8:24:25 PM
Bound File Name = SIM05282013.0015.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 8:24:19 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	37109	0.0483	0.0395
4	3.61	t-Butanol	99243	0.9703	0.7920
5	4.43	n-Propanol	150309	1.0000	0.8162

13-10-040 55 RLM

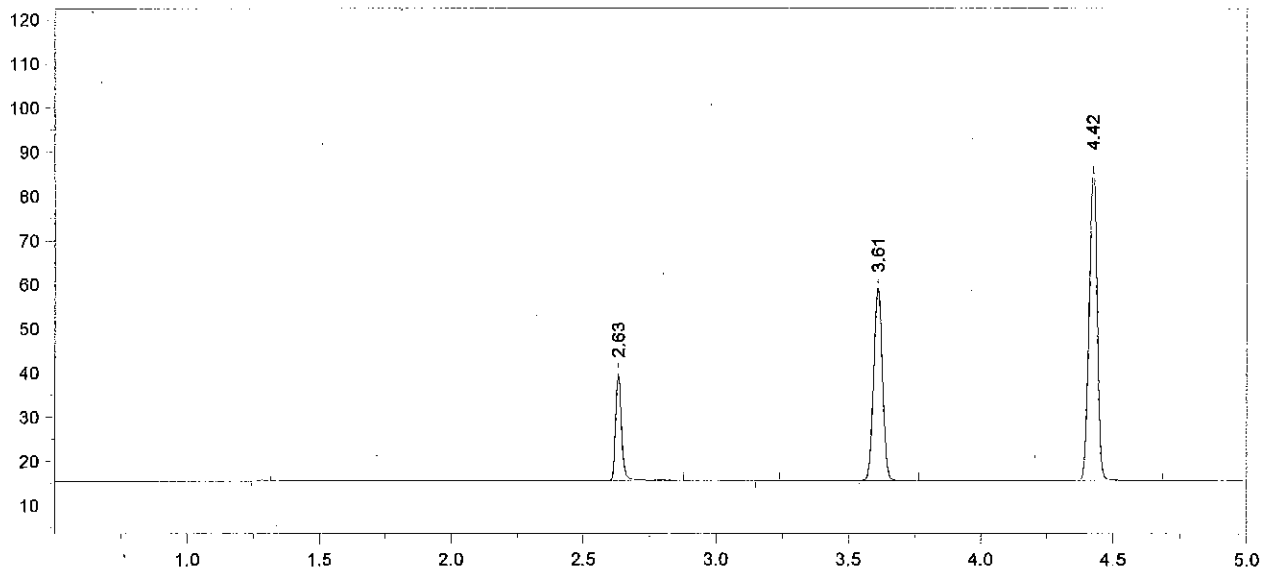


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 8:40:18 PM
Bound File Name = SIM05282013.0016.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 8:40:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	36757	0.0479	0.0391
4	3.61	t-Butanol	104447	1.0220	0.8342
5	4.43	n-Propanol	150190	1.0000	0.8162

13-10-040 56 RLM

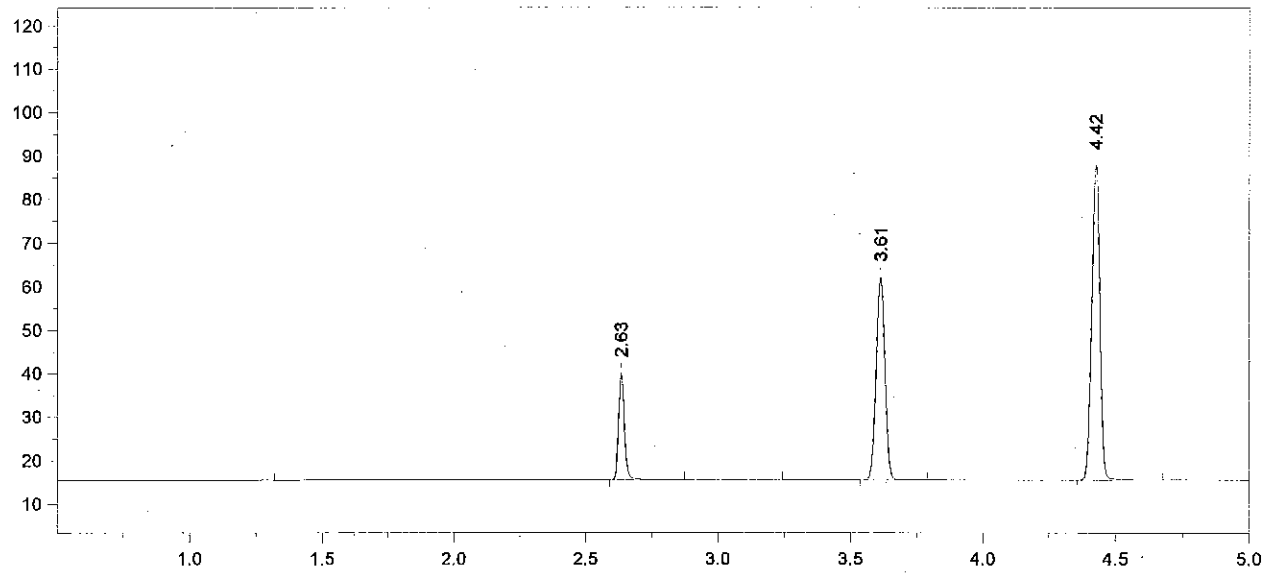


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 8:54:52 PM
Bound File Name = SIM05282013.0017.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 8:54:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37593	0.0489	0.0399
4	3.61	t-Butanol	100446	0.9813	0.8009
5	4.42	n-Propanol	150435	1.0000	0.8162

13-10-040 57 RLM

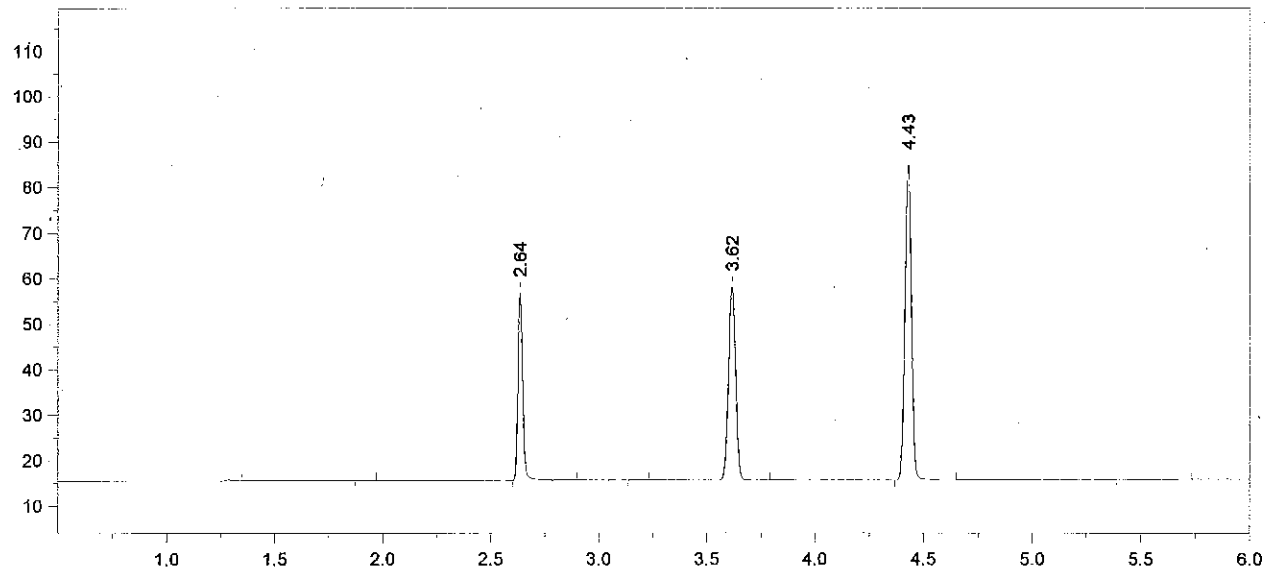


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 9:11:39 PM
Bound File Name = SIM05282013.0018.RAW
Sample Name = 0.04 RLM
Date Taken = 5/28/2013 9:11:35 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	37902	0.0481	0.0393
4	3.61	t-Butanol	107111	1.0212	0.8335
5	4.42	n-Propanol	154150	1.0000	0.8162

13-10-040 58 RZM

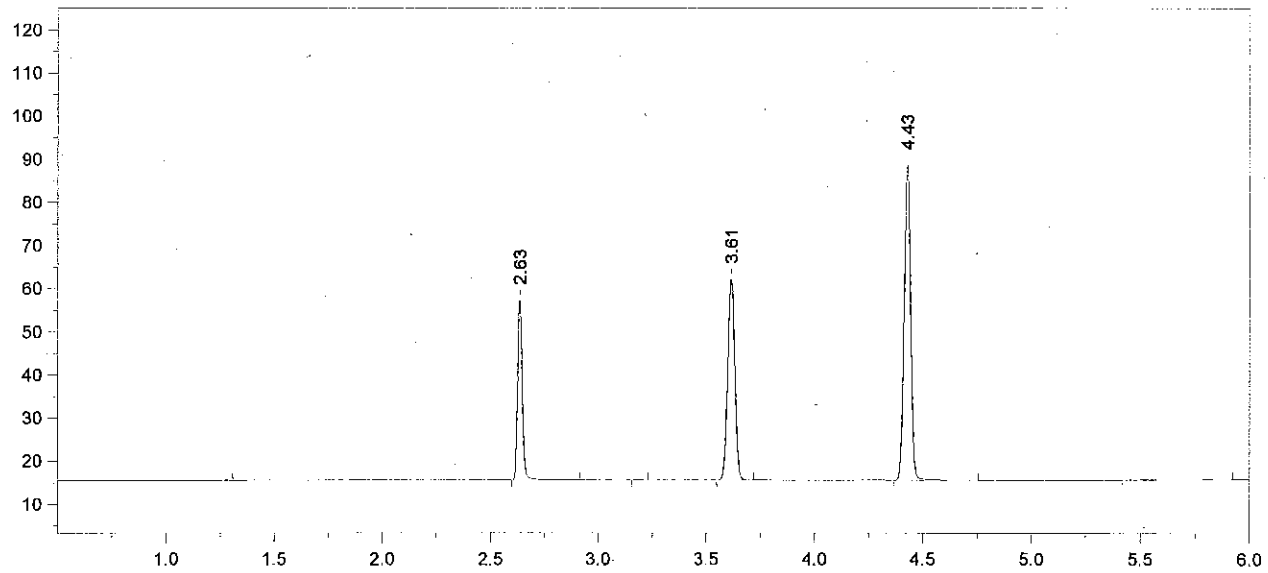


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 9:25:27 PM
Bound File Name = SIM05282013.0019.RAW
Sample Name = CCS
Date Taken = 5/28/2013 9:25:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	62762	0.0838 *
5	3.62	t-Butanol	97804	0.9807
6	4.43	n-Propanol	146562	1.0000

13-10-040 59 RZM



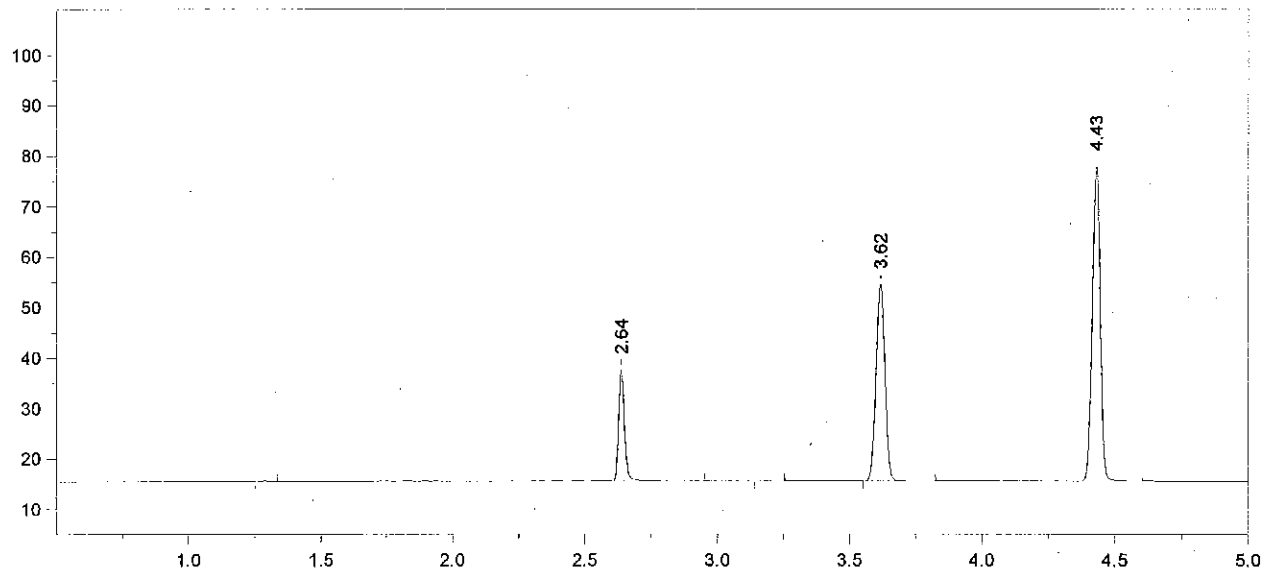
Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013
Today's Time = 9:43:08 PM
Bound File Name = SIM05282013.0020.RAW
Sample Name = CCS
Date Taken = 5/28/2013 9:43:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	64113	0.0816 *
4	3.61	t-Butanol	107083	1.0231
5	4.43	n-Propanol	153824	1.0000

Avg #19 + #20 = 0.083
RLM 5/29/13

13-10-040 60 RLM

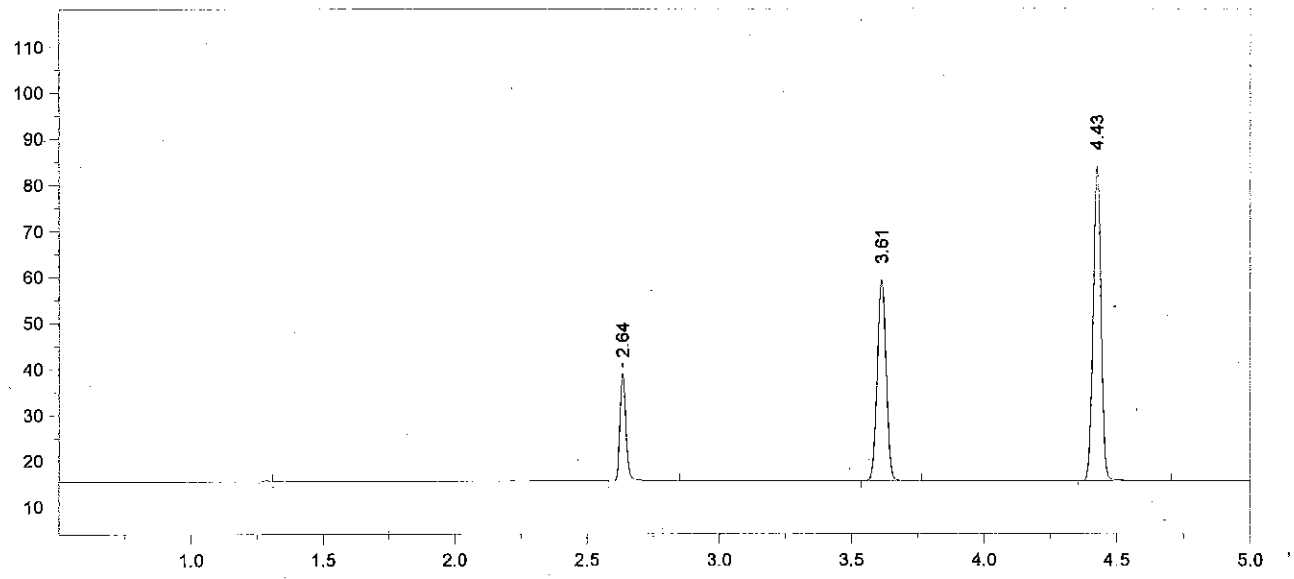


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 9:57:54 PM
Bound File Name = SIM05282013.0021.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 9:57:50 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	34076	0.0507	0.0414
4	3.62	t-Butanol	89644	1.0013	0.8173
5	4.43	n-Propanol	131573	1.0000	0.8162

13-10-040 61 RM

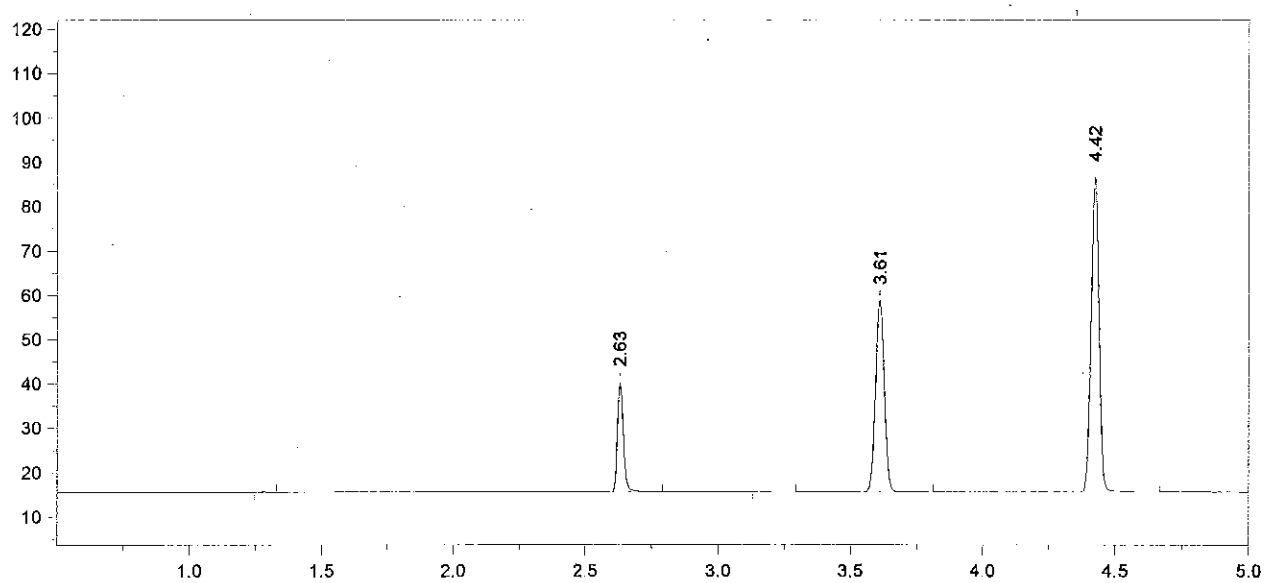


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 10:14:32 PM
Bound File Name = SIM05282013.0022.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 10:14:26 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	36293	0.0492	0.0402
3	3.61	t-Butanol	100616	1.0245	0.8362
4	4.43	n-Propanol	144330	1.0000	0.8162

13-10-040 62 RJM

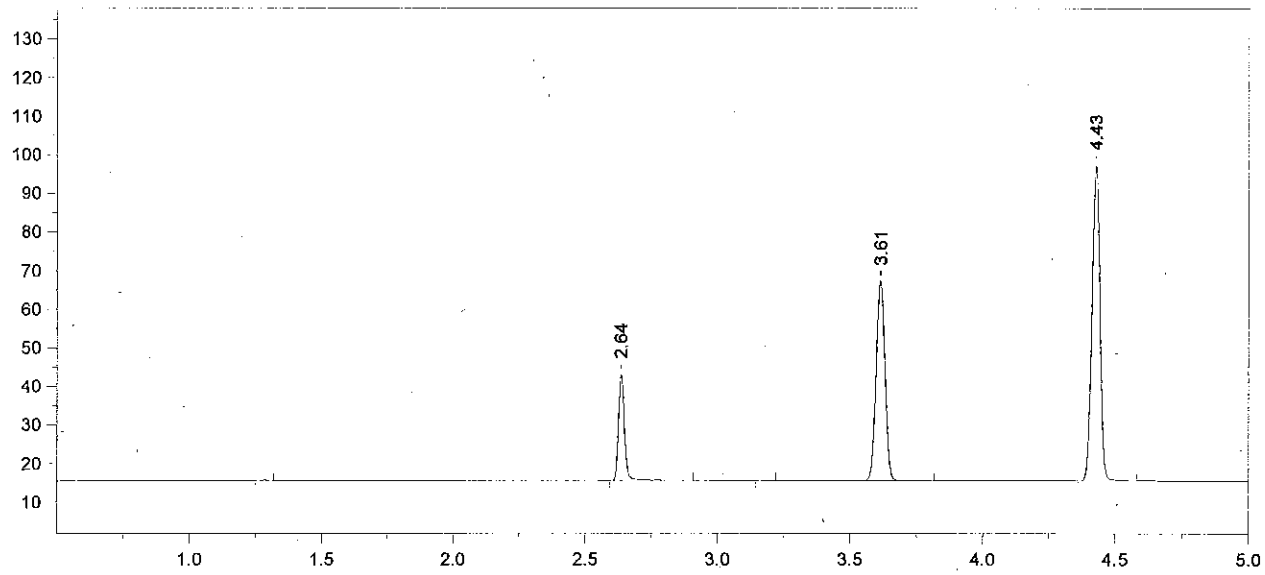


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 10:28:19 PM
Bound File Name = SIM05282013.0023.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 10:28:14 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	38294	0.0502	0.0410
4	3.61	t-Butanol	99464	0.9789	0.7990
5	4.42	n-Propanol	149325	1.0000	0.8162

13-10-040 63 RLM

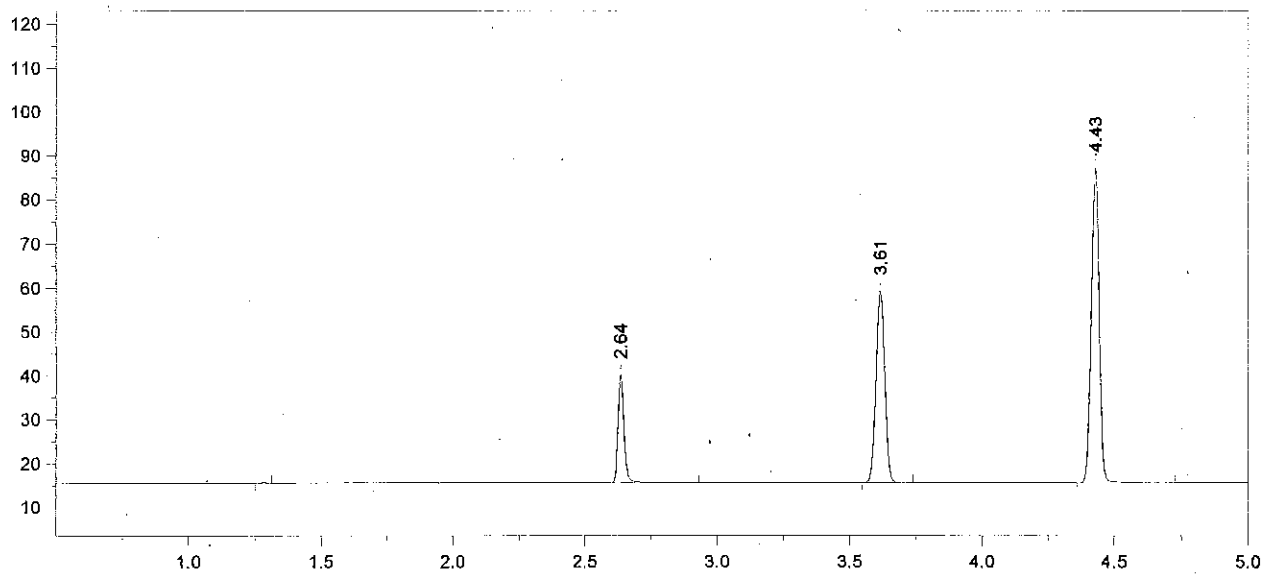


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 10:44:13 PM
Bound File Name = SIM05282013.0024.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 10:44:07 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	42474	0.0484	0.0395
4	3.61	t-Butanol	119600	1.0226	0.8347
5	4.43	n-Propanol	171876	1.0000	0.8162

13-10-040 64 RZM

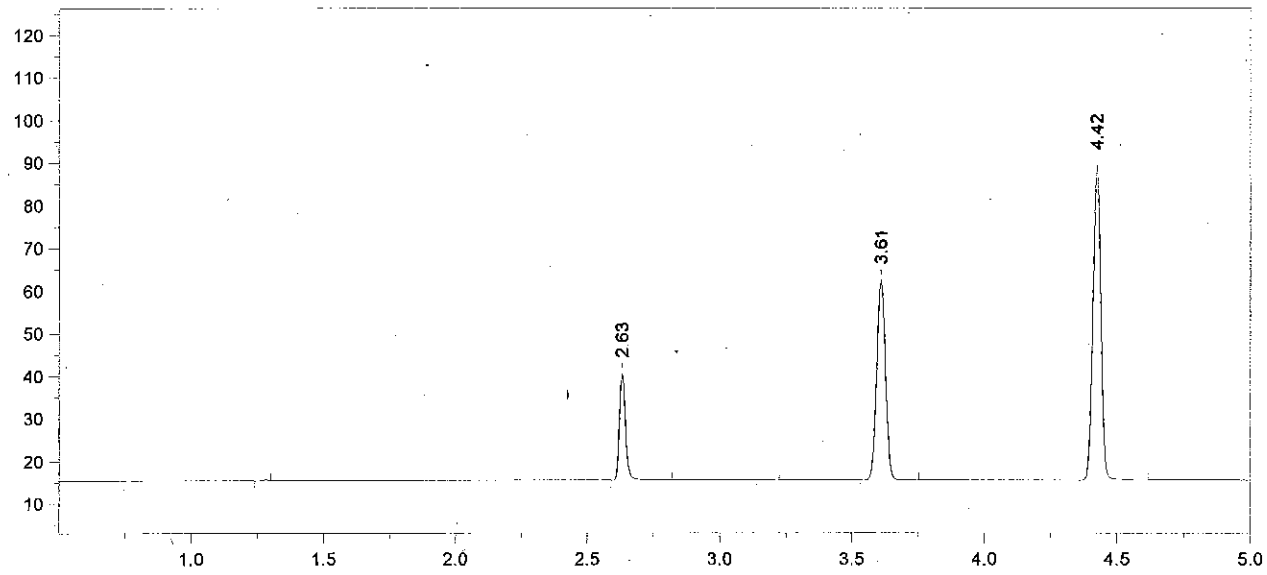


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 10:59:48 PM
Bound File Name = SIM05282013.0025.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 10:59:43 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	38319	0.0495	0.0404
3	3.61	t-Butanol	100131	0.9705	0.7921
4	4.43	n-Propanol	151628	1.0000	0.8162

13-10-040 65 RLM

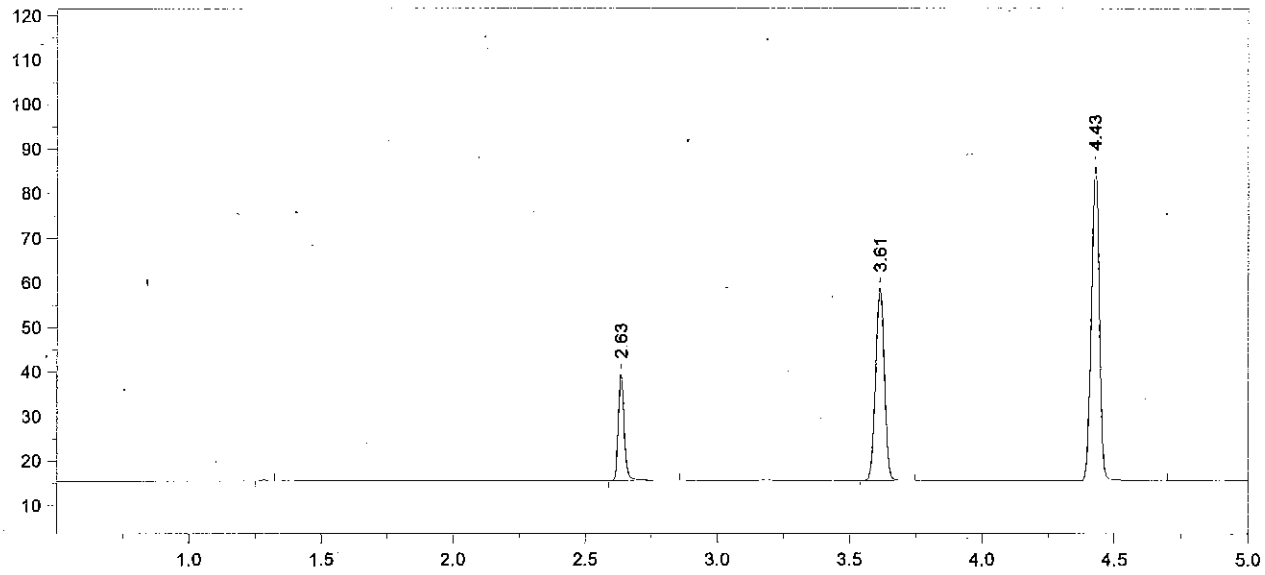


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 11:15:46 PM
Bound File Name = SIM05282013.0026.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 11:15:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	38735	0.0488	0.0398
4	3.61	t-Butanol	107974	1.0215	0.8337
5	4.42	n-Propanol	155344	1.0000	0.8162

13-10-040 66 RLM

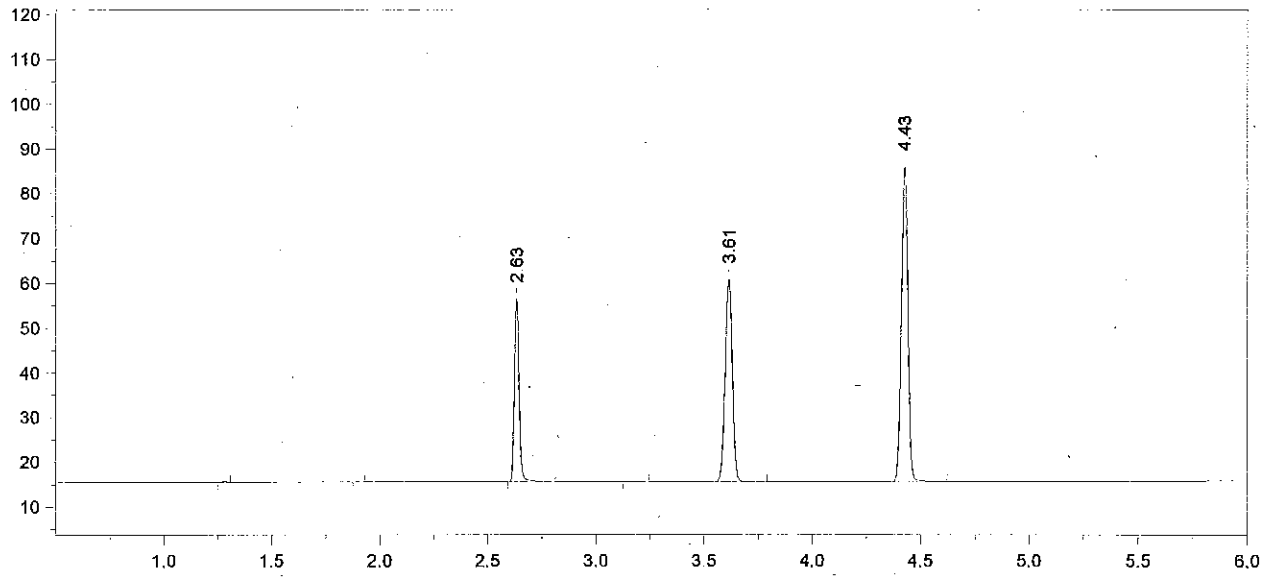


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/28/2013 Today's Time = 11:29:29 PM
Bound File Name = SIM05282013.0027.RAW
Sample Name = 0.04 ALB
Date Taken = 5/28/2013 11:29:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	36875	0.0484	0.0395
3	3.61	t-Butanol	99358	0.9781	0.7984
4	4.43	n-Propanol	149284	1.0000	0.8162

13-10-040 67 RM

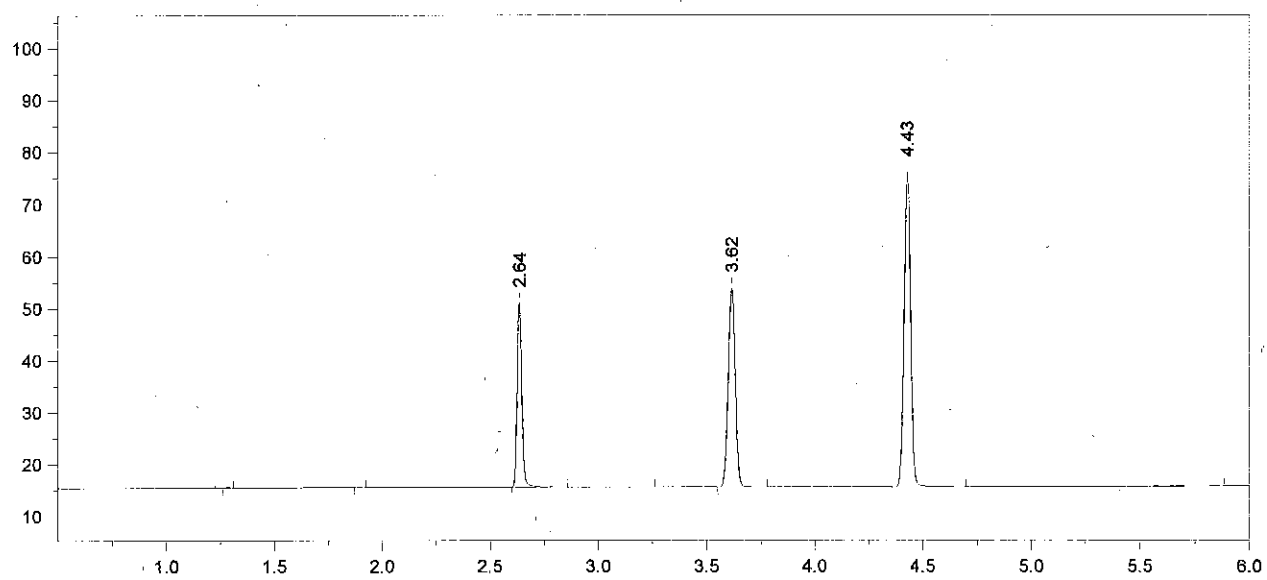


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2013 Today's Time = 11:47:13 PM
Bound File Name = SIM05282013.0028.RAW
Sample Name = CCS
Date Taken = 5/28/2013 11:47:06 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	62318	0.0819 *
5	3.61	t-Butanol	104001	1.0265
6	4.43	n-Propanol	148892	1.0000

13-10-040 68 RLM



Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2013
Today's Time = 12:00:54 AM
Bound File Name = SIM05282013.0029.RAW
Sample Name = CCS
Date Taken = 5/29/2013 12:00:44 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	54328	0.0831 *
5	3.62	t-Butanol	88291	1.0132
6	4.43	n-Propanol	128068	1.0000

Avg #28 + #29 = 0.082
RLM 5/29/13

13-10-040 69 RLM