VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster Certification Solution

On 7/17/2013, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster Certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-14-400 and an expiration date of 7/17/2014.

On 7/17/2013 and 7/18/2013, the solution was analyzed against calibration VFL07172013 and VFL07182013. 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 0.399 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Certification solution.

Dated at Waterbury, Vermont on Friday, July 19, 2013.

Rebecca Mead

Rebecca Mead

0.4 Certification Solution 1L
Lot # 13-14-400
Prepared 07/17/2013 by RLM
Exp 07/17/2014

RLM CAL VFL07172013
RLM/ALB Vials
Analyzed on 07/17/2013

0.3903	rlm
0.4010	
0.3922	
0.4015	
0.3898	
0.4059	
0.3911	
0.4068	alb
0.3997	
0.4061	
0.3994	
0.4020	
0.3942	
0.3959	

Ave. = 0.3983
Std Dev. = 0.0060
Range = 0.3898-0.4068

RLM CAL VFL07182013
RLM/ALB Vials
Analyzed on 07/18/2013

0.3927	rlm
0.3976	
0.3941	
0.4005	
0.4132	
0.4020	
0.3924	
0.4065	alb
0.3963	
0.4045	
0.3949	
0.4047	
0.3994	
0.3971	

Ave. = 0.3997
Std Dev. = 0.0060
Range = 0.3924-0.4132

Total Values from Both Runs

Average	Mean
0.3903	0.3898
0.4010	0.3903
0.3922	0.3911
0.4015	0.3922
0.3898	0.3924
0.4059	0.3927
0.3911	0.3941
0.4068	0.3942
0.3997	0.3949
0.4061	0.3959
0.3994	0.3963
0.4020	0.3971
0.3942	0.3976
0.3959	0.3994
0.3927	
0.3976	0.3997
0.3941	0.4005
0.4005	0.4010
0.4132	0.4015
0.4020	0.4020
0.3924	
0.4065	0.4045
0.3963	0.4047
0.4045	0.4059
0.3949	0.4061
0.4047	0.4065
0.3994	0.4068
0.3971	0.4132

Ave. =	0.3990
Avg Std Dev. =	0.0059
Mean =	0.3989
Mean Std Dev. =	0.0061
Range =	0.3898-0.4132
RPD =	5.86%

7/23/2013

Headspace Alcohol Analysis Standards Coversheet

7/23/2013

Analyst: RLM Date: 7/17/13

Calibration Standards:

Lot ID: ES-06262013 Preparation Date: 06/26/2013 Expiration Date: 09/26/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check (c)
% Ethanol (w/v)	0.006	0.024	0.081	0.206	0.400	0.081
Acceptance Range (± 10%)	0.007	0.026	0.089	0.227	0.440	0.089
	0.005	0.021	0.073	0.186	0.360	0.073

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	1.92		
		Methanol	2.02		
		Ethanol	2.65		
		Acetone	3.06		
		Isopropanol	3.19		
		T- butanol	3.63		
		n-propanol	4.44		
3	Standard A		0.006	(Y) N	
4	Standard B		0.023	(Y) N	
5	Standard C		0.081	(Y) N	
6	Standard D		0.204	(Y) N	
7	Standard E		0.401	(Y) N	
8	Aqueous QC		0.0781	(Y) N	Avg = 0.078 (102% recovery) ✓
9	Aqueous QC		0.0786	(Y) N	

13-14-400 2

File Name: C:\Methods\VFL07172013.CAL
Version: 7

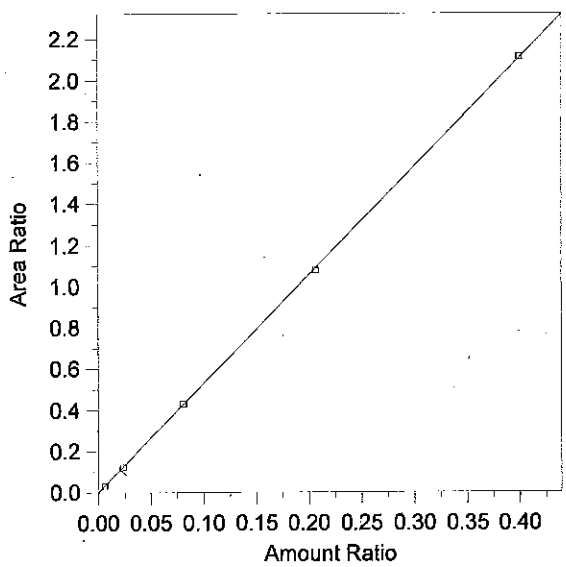
Creator:
Description:
Reason for change:

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:	2.657 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 = 5.268277 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999405
Average error:	1.941%
Average CF:	5.289945
RSD:	3.029%

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	0.0059	6828.849	1157432	5.374	0.0059	3.275312E-02	C:\Alcohol Data\VFL07172013\VFL07172013.0003.BND	7/17/2013 6:30:52 PM
3	0.0237	24092.46	1016560	-2.787	0.0237	0.121378	C:\Alcohol Data\VFL07172013\VFL07172013.0004.BND	7/17/2013 6:47:30 PM
4	0.0812	89383.99	1100788	0.232	0.0812	0.4287769	C:\Alcohol Data\VFL07172013\VFL07172013.0005.BND	7/17/2013 7:01:37 PM
5	0.2065	213354.8	1033195	-1.038	0.2065	1.076607	C:\Alcohol Data\VFL07172013\VFL07172013.0006.BND	7/17/2013 7:18:58 PM
6	0.3998	427050.3	1068160	0.276	0.3998	2.112069	C:\Alcohol Data\VFL07172013\VFL07172013.0007.BND	7/17/2013 7:32:52 PM

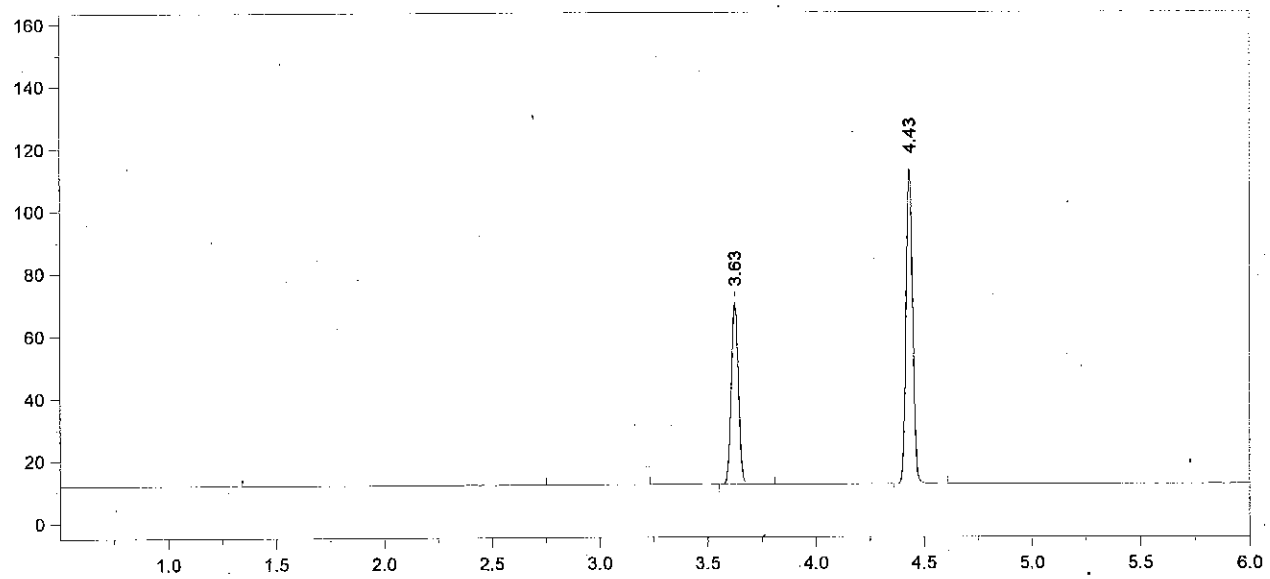
13-14-400 3 RLM

File Name = C:\Alcohol Data\VFL07172013\VFL07172013.SEQ
Version = 1
File Date = 7/17/2013 5:22:42 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL07172013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL07172013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL07172013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL07172013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL07172013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL07172013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL07172013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL07172013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	VFL07172013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	VFL07172013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL07172013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL07172013.0012.raw	simsoln.met	RLM 0.4	1.00	1.00
13	VFL07172013.0013.raw	simsoln.met	RLM 0.4	1.00	1.00
14	VFL07172013.0014.raw	simsoln.met	RLM 0.4	1.00	1.00
15	VFL07172013.0015.raw	simsoln.met	RLM 0.4	1.00	1.00
16	VFL07172013.0016.raw	simsoln.met	RLM 0.4	1.00	1.00
17	VFL07172013.0017.raw	simsoln.met	RLM 0.4	1.00	1.00
18	VFL07172013.0018.raw	simsoln.met	RLM 0.4	1.00	1.00
19	VFL07172013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	VFL07172013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL07172013.0021.raw	simsoln.met	ALB 0.4	1.00	1.00
22	VFL07172013.0022.raw	simsoln.met	ALB 0.4	1.00	1.00
23	VFL07172013.0023.raw	simsoln.met	ALB 0.4	1.00	1.00
24	VFL07172013.0024.raw	simsoln.met	ALB 0.4	1.00	1.00
25	VFL07172013.0025.raw	simsoln.met	ALB 0.4	1.00	1.00
26	VFL07172013.0026.raw	simsoln.met	ALB 0.4	1.00	1.00
27	VFL07172013.0027.raw	simsoln.met	ALB 0.4	1.00	1.00
28	VFL07172013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	VFL07172013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL07172013.0030.raw	Blood Alc VAL.MET	Blank	1.00	1.00
31	VFL07172013.0031.raw	Blood Alc VAL.MET	TMX	1.00	1.00
32	VFL07172013.0032.raw	Blood Alc VAL.MET	STD A	1.00	1.00
33	VFL07172013.0033.raw	Blood Alc VAL.MET	STD B	1.00	1.00
34	VFL07172013.0034.raw	Blood Alc VAL.MET	STD C	1.00	1.00
35	VFL07172013.0035.raw	Blood Alc VAL.MET	STD D	1.00	1.00
36	VFL07172013.0036.raw	Blood Alc VAL.MET	STD E	1.00	1.00
37	VFL07172013.0037.raw	Blood Alc VAL.MET	AQ QC	1.00	1.00
38	VFL07172013.0038.raw	Blood Alc VAL.MET	AQ QC	1.00	1.00
39	VFL07172013.0039.raw	Blood Alc VAL.MET	WB	1.00	1.00
40	VFL07172013.0040.raw	Blood Alc VAL.MET	WB	1.00	1.00
41	VFL07172013.0041.raw	Blood Alc VAL.MET	CCS	1.00	1.00
42	VFL07172013.0042.raw	Blood Alc VAL.MET	CCS	1.00	1.00
43	VFL07172013.0043.raw	Blood Alc VAL.MET	Cal-1	1.00	1.00
44	VFL07172013.0044.raw	Blood Alc VAL.MET	Cal-2	1.00	1.00
45	VFL07172013.0045.raw	Blood Alc VAL.MET	Cal-3	1.00	1.00
46	VFL07172013.0046.raw	Blood Alc VAL.MET	Cal-4	1.00	1.00
47	VFL07172013.0047.raw	Blood Alc VAL.MET	Cal-5	1.00	1.00
48	VFL07172013.0048.raw	Blood Alc VAL.MET	Cal-6	1.00	1.00
49	VFL07172013.0049.raw	Blood Alc VAL.MET	CCS	1.00	1.00
50	VFL07172013.0050.raw	Blood Alc VAL.MET	CCS	1.00	1.00
51	VFL07172013.0051.raw	Blood Alc VAL.MET	LOQ-1	1.00	1.00
52	VFL07172013.0052.raw	Blood Alc VAL.MET	LOQ-1	1.00	1.00
53	VFL07172013.0053.raw	Blood Alc VAL.MET	LOQ-2	1.00	1.00
54	VFL07172013.0054.raw	Blood Alc VAL.MET	LOQ-2	1.00	1.00
55	VFL07172013.0055.raw	Blood Alc VAL.MET	LOQ-3	1.00	1.00
56	VFL07172013.0056.raw	Blood Alc VAL.MET	LOQ-3	1.00	1.00
57	VFL07172013.0057.raw	Blood Alc VAL.MET	CCS	1.00	1.00
58	VFL07172013.0058.raw	Blood Alc VAL.MET	CCS	1.00	1.00

Validation samples not included RLM 7/19/13

13-14-400 4 RLM



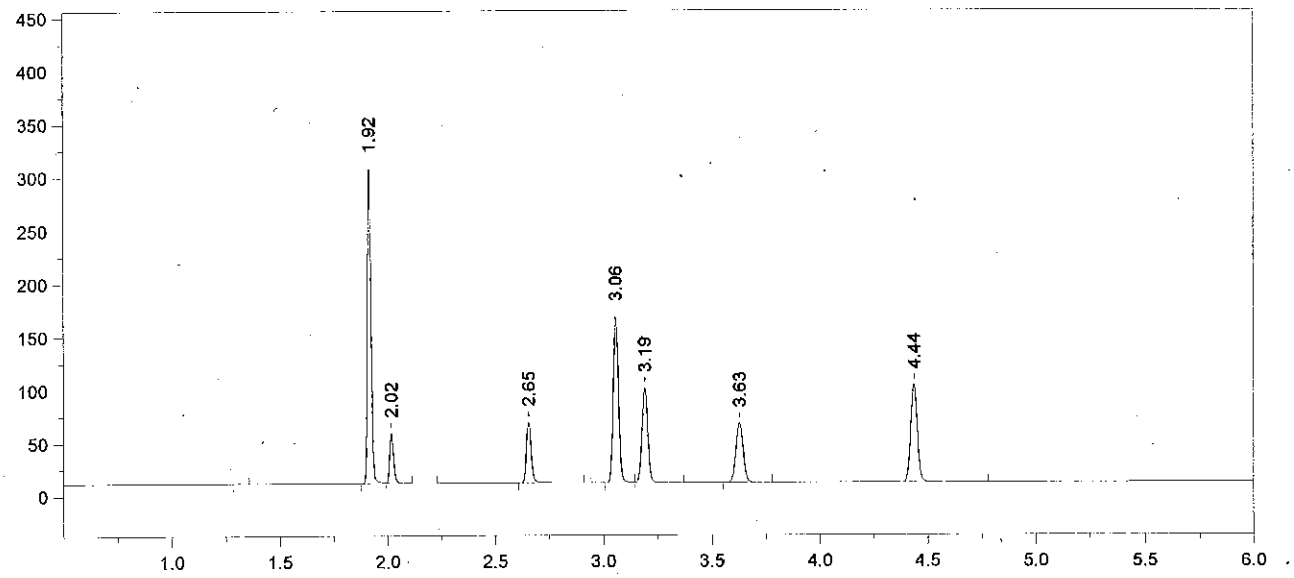
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:58:39 AM
Bound File Name = VFL07172013.0001.RAW
Sample Name = Blank
Date Taken = 7/17/2013 6:00:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	3.63	t-Butanol	135421	0.9617
6	4.43	n-Propanol	214521	1.0000

13-14-400 5 RLM

Chrom Perfect Chromatogram Report

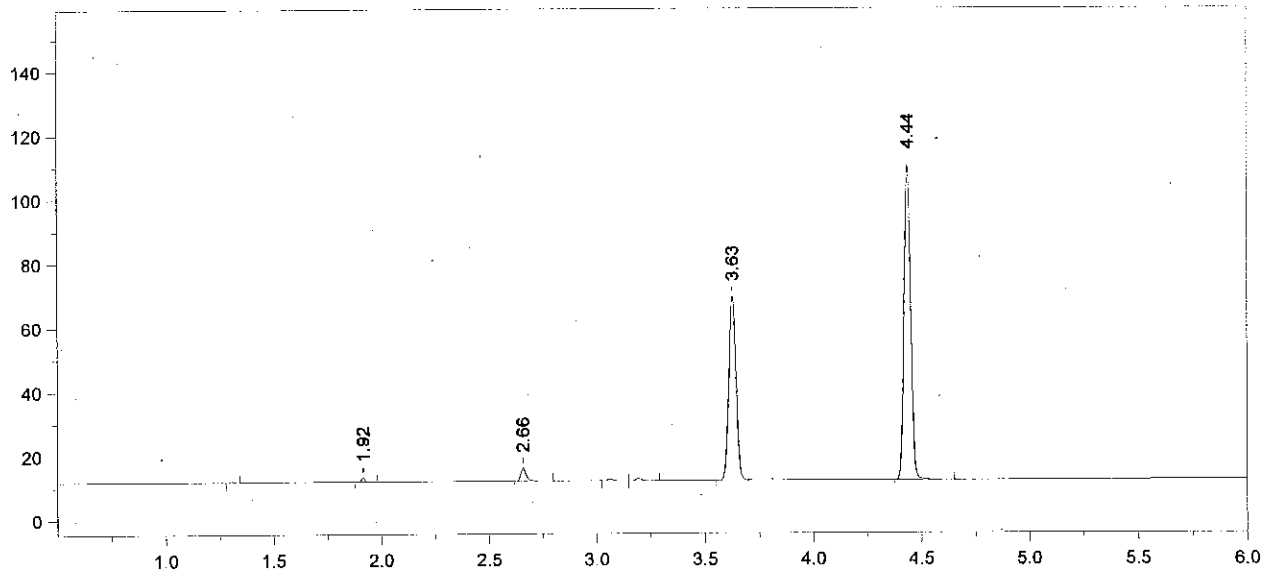


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:58:45 AM
Bound File Name = VFL07172013.0002.RAW
Sample Name = TMX
Date Taken = 7/17/2013 6:16:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.92	Acetaldehyde	345663	0.0720
4	2.02	Methanol	58210	0.1210
5	2.65	Ethanol	89449	0.0873
6	3.06	Acetone	267064	0.0690
7	3.19	Isopropanol	166577	0.0830
8	3.63	t-Butanol	130090	1.0188
9	4.44	n-Propanol	194532	1.0000

13-14-400 6 RLM

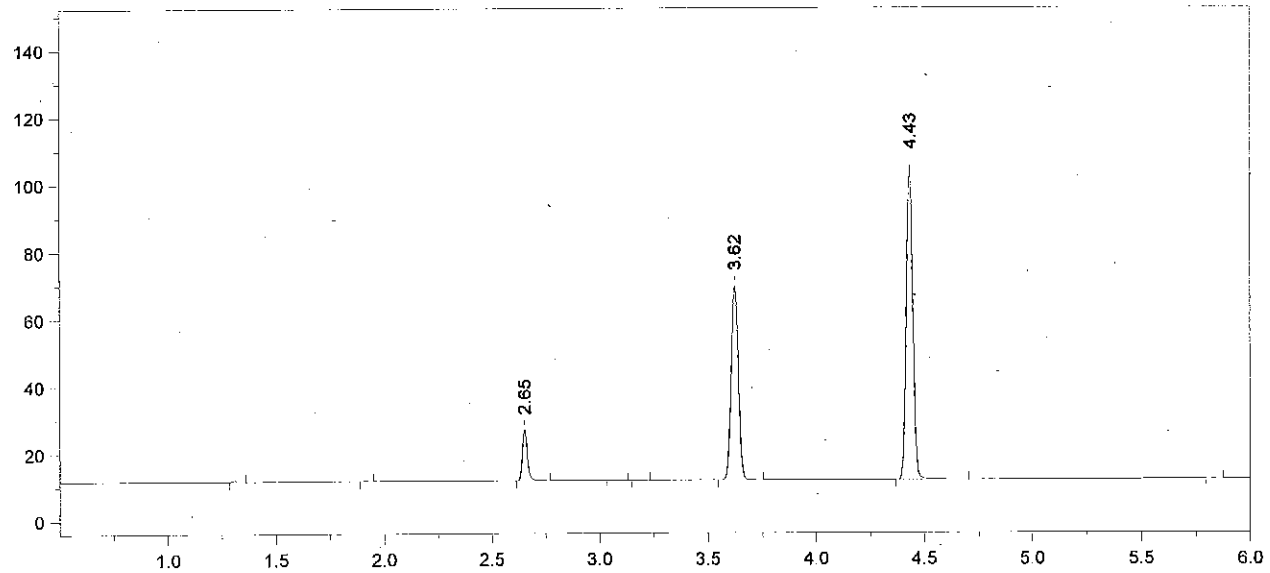


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:58:50 AM
Bound File Name = VFL07172013.0003.RAW
Sample Name = STD A
Date Taken = 7/17/2013 6:30:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.92	Acetaldehyde	01575	<0.004
4	2.66	Ethanol	06829	0.0062*
7	3.63	t-Butanol	133459	0.9752
8	4.44	n-Propanol	208495	1.0000

13-14-400 7 RLM

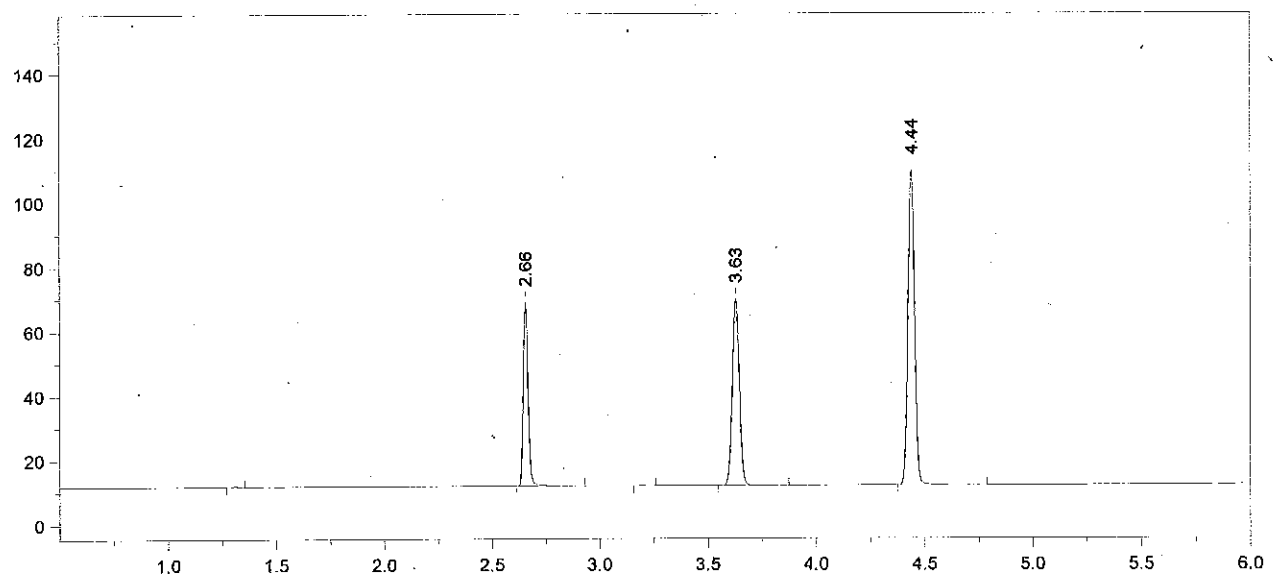


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:58:56 AM
Bound File Name = VFL07172013.0004.RAW
Sample Name = STD B
Date Taken = 7/17/2013 6:47:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	24092	0.0230 *
7	3.62	t-Butanol	133726	1.0264
8	4.43	n-Propanol	198491	1.0000

13-14-400 8 RLM

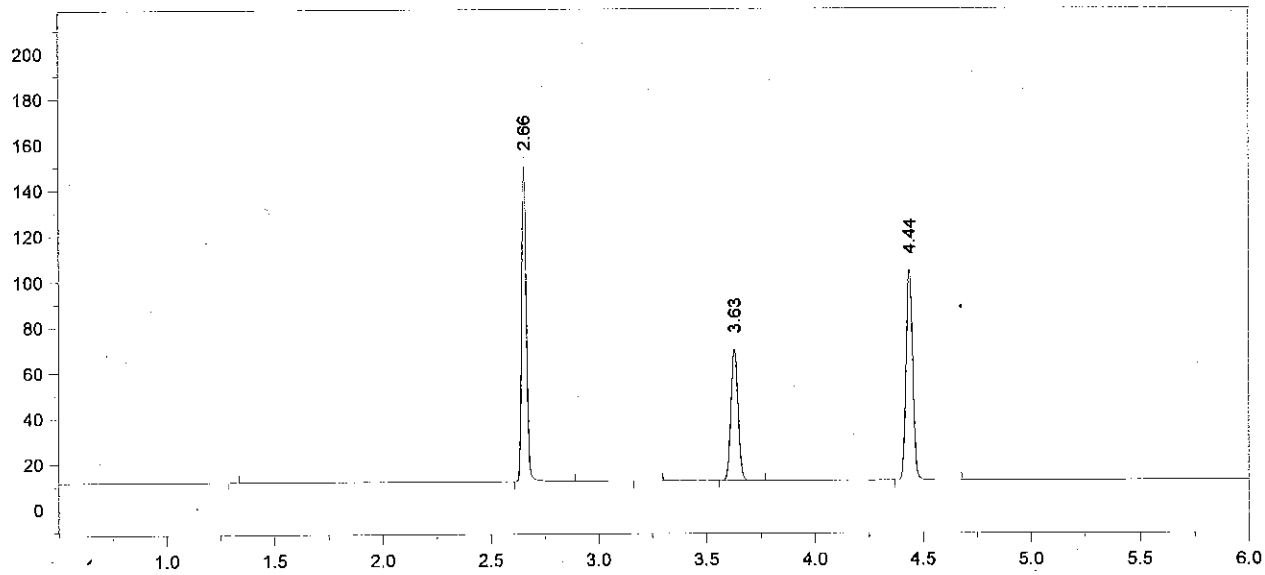


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:59:02 AM
Bound File Name = VFL07172013.0005.RAW
Sample Name = STD C
Date Taken = 7/17/2013 7:01:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	89384	0.0814 *
5	3.63	t-Butanol	134132	0.9802
6	4.44	n-Propanol	208463	1.0000

13-14-400 9 RM

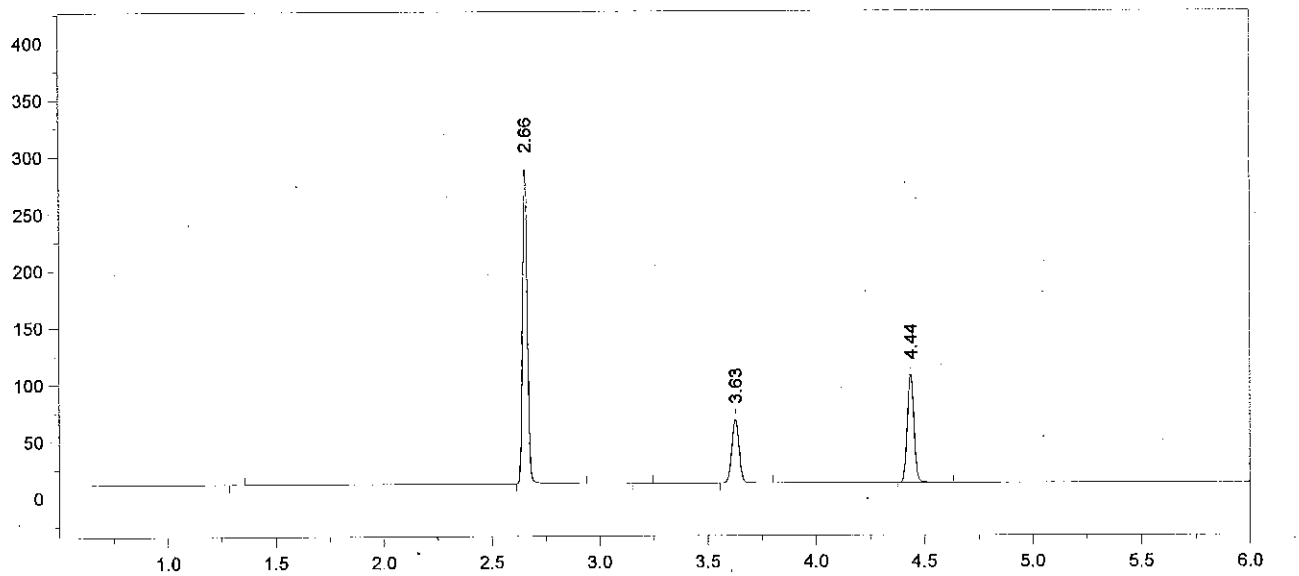


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:59:07 AM
Bound File Name = VFL07172013.0006.RAW
Sample Name = STD D
Date Taken = 7/17/2013 7:18:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	213355	0.2044
5	3.63	t-Butanol	133172	1.0238
6	4.44	n-Propanol	198173	1.0000

13-14-400 10 RZM

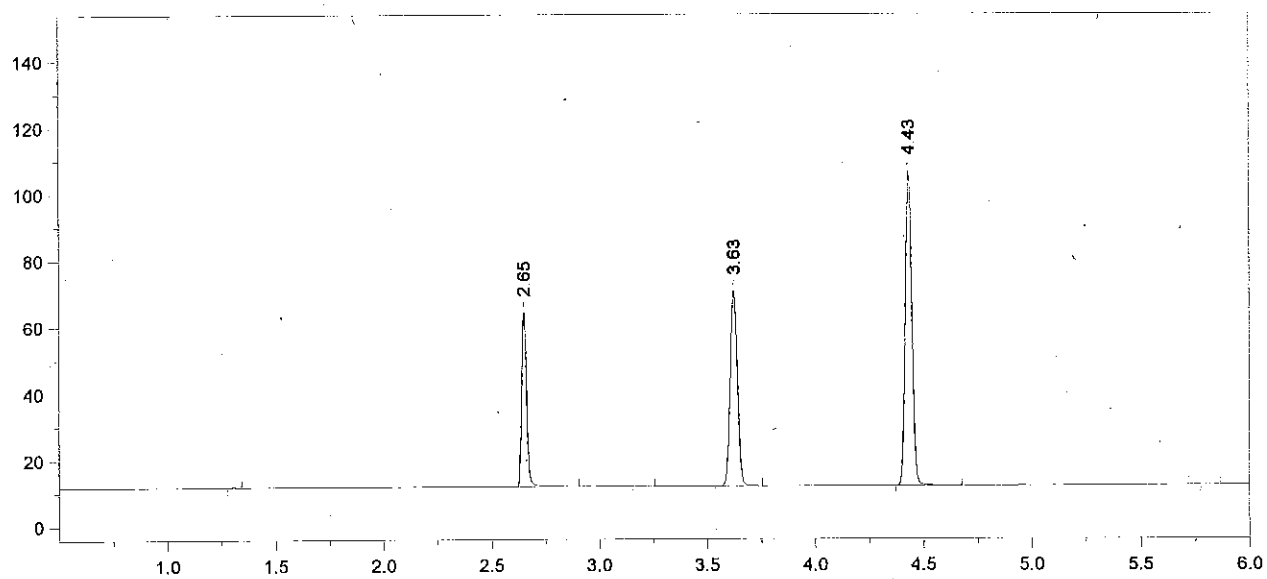


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:59:13 AM
Bound File Name = VFL07172013.0007.RAW
Sample Name = STD E
Date Taken = 7/17/2013 7:32:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	427050	0.4009 *
5	3.63	t-Butanol	129490	0.9757
6	4.44	n-Propanol	202195	1.0000

13-14-400 11 [illegible]



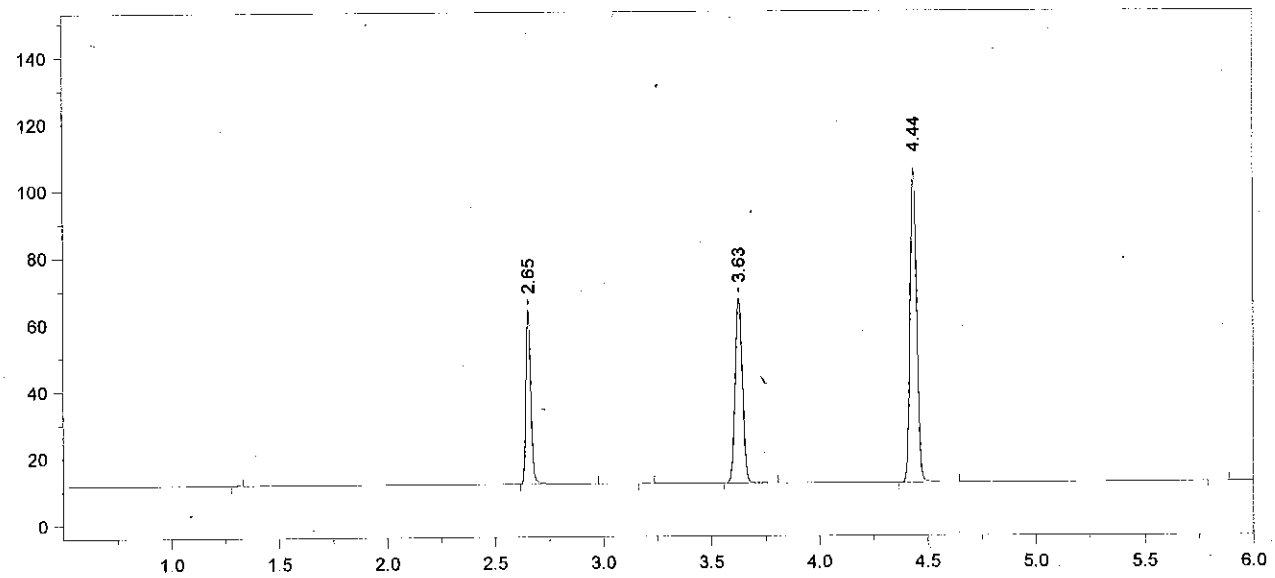
Format File Name = AlcoholVFL.FMT

Today's Date = 7/17/2013
Today's Time = 7:50:27 PM
Bound File Name = VFL07172013.0008.RAW
Sample Name = AQ QC
Date Taken = 7/17/2013 7:50:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82818	0.0781 *
5	3.63	t-Butanol	136575	1.0340
6	4.43	n-Propanol	201216	1.0000

13-14-400 12

Chrom Perfect Chromatogram Report



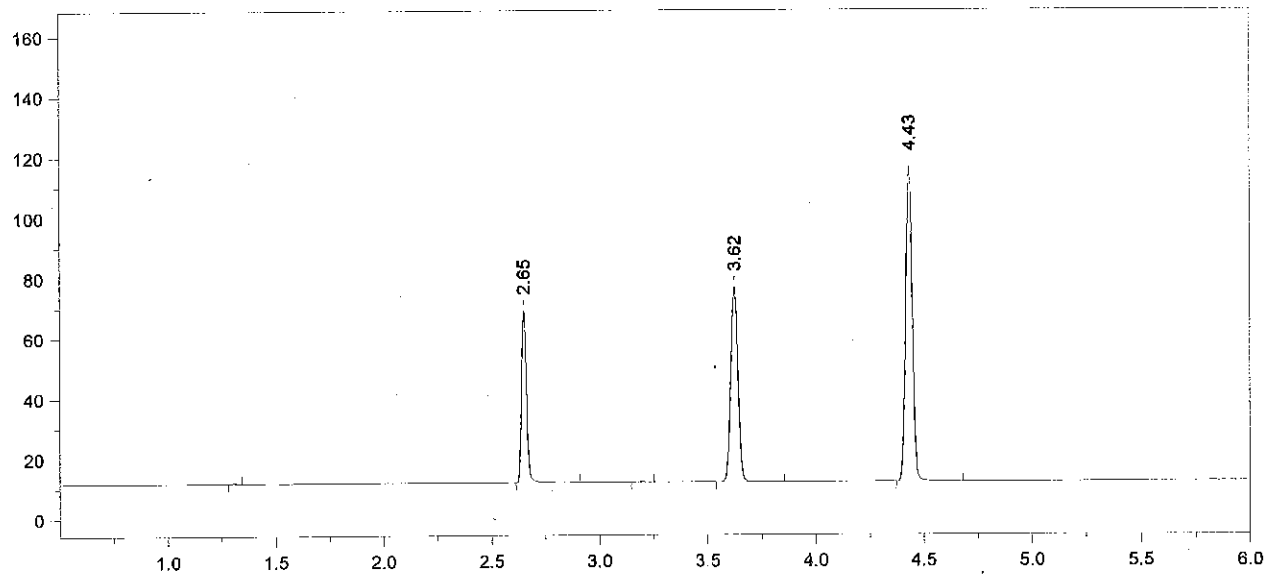
Format File Name = AlcoholVFL.FMT

Today's Date = 7/17/2013
Today's Time = 8:04:20 PM
Bound File Name = VFL07172013.0009.RAW
Sample Name = AQ QC
Date Taken = 7/17/2013 8:04:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82462	0.0786 *
5	3.63	t-Butanol	128619	0.9838
6	4.44	n-Propanol	199168	1.0000

Avg #8 + #9 = 0.078
RLM 7/18/13

13-14-400 13 RLM



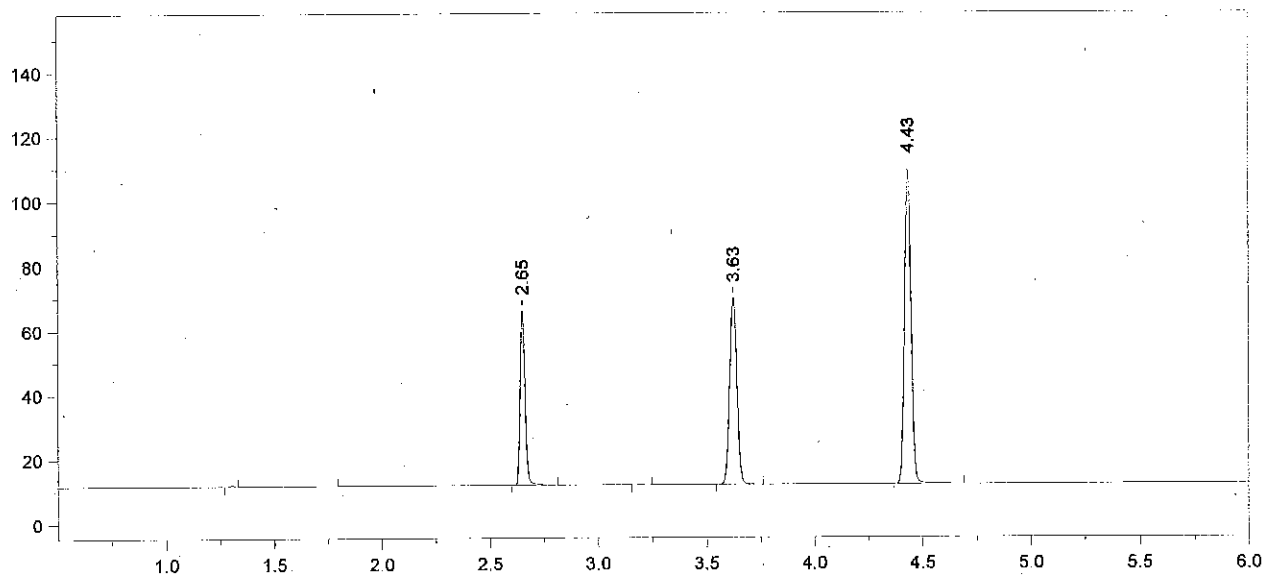
Format File Name = AlcoholVFL.FMT

Today's Date = 7/17/2013
Today's Time = 8:21:45 PM
Bound File Name = VFL07172013.0010.RAW
Sample Name = CCS
Date Taken = 7/17/2013 8:21:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	89172	0.0761 *
5	3.62	t-Butanol	150653	1.0325
6	4.43	n-Propanol	222289	1.0000

13-14-400 14 RZM

Chrom Perfect Chromatogram Report



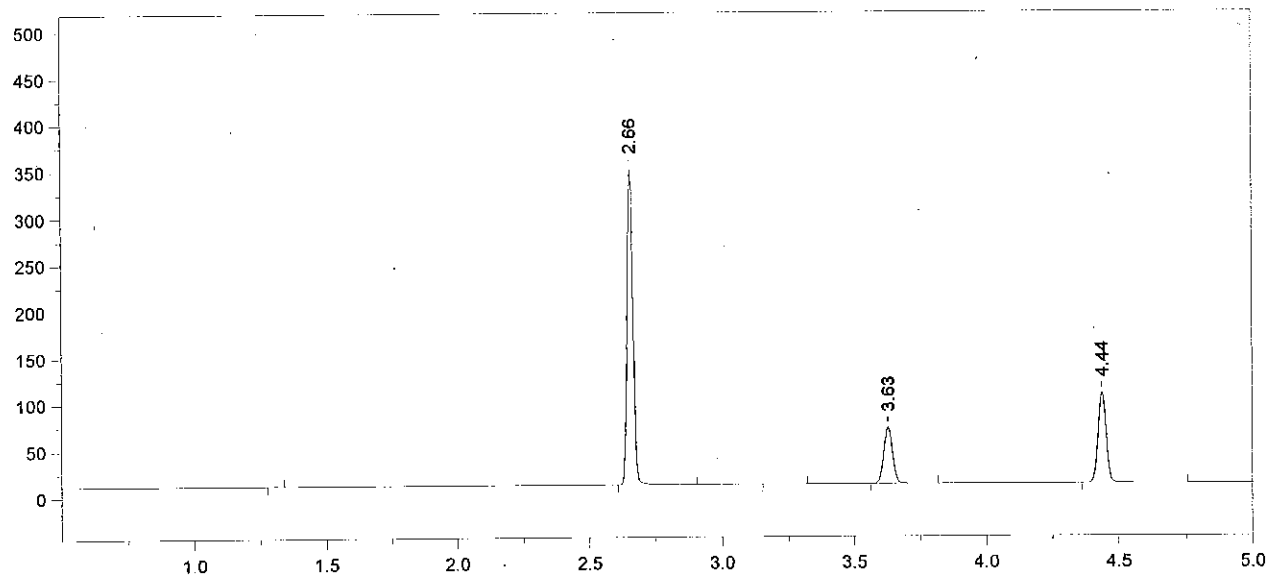
Format File Name = AlcoholVFL.FMT

Today's Date = 7/17/2013
Today's Time = 8:36:03 PM
Bound File Name = VFL07172013.0011.RAW
Sample Name = CCS
Date Taken = 7/17/2013 8:35:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	84545	0.0777 *
6	3.63	t-Butanol	134573	0.9928
7	4.43	n-Propanol	206507	1.0000

Avg #10 + #11 = 0.077
RKM 7/18/13

13-14-400 15 RKM



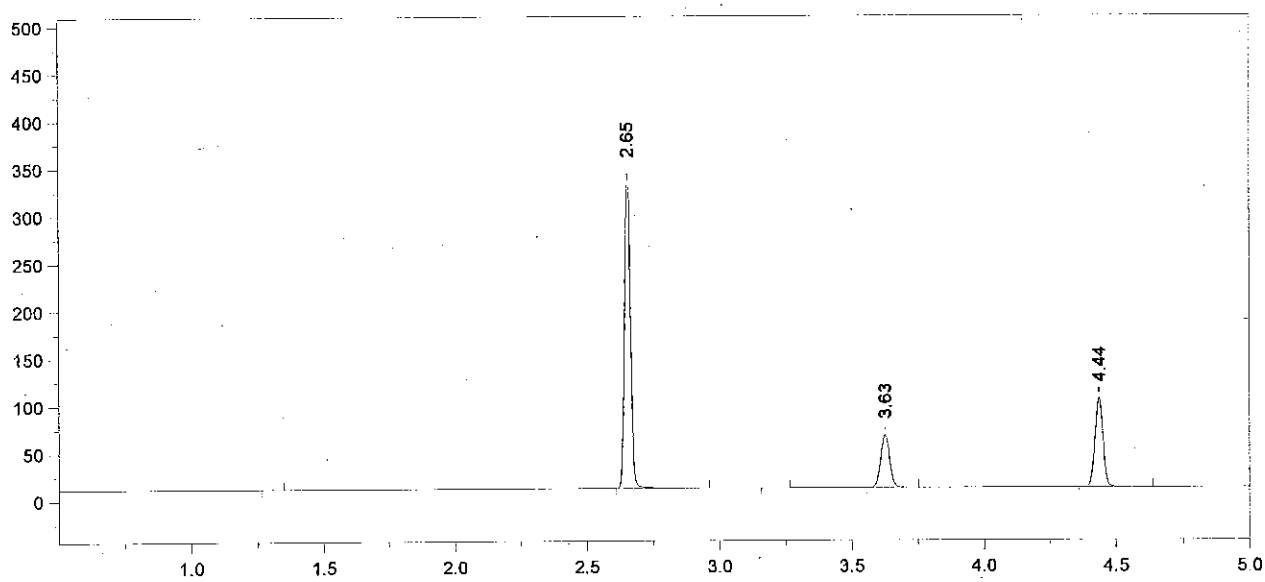
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 8:53:14 PM
Bound File Name = VFL07172013.0012.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 8:53:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	519348	0.4782	0.3903
5	3.63	t-Butanol	139436	1.0304	0.8410
6	4.44	n-Propanol	206159	1.0000	0.8162

13-14-400 16 RLM

Chrom Perfect Chromatogram Report

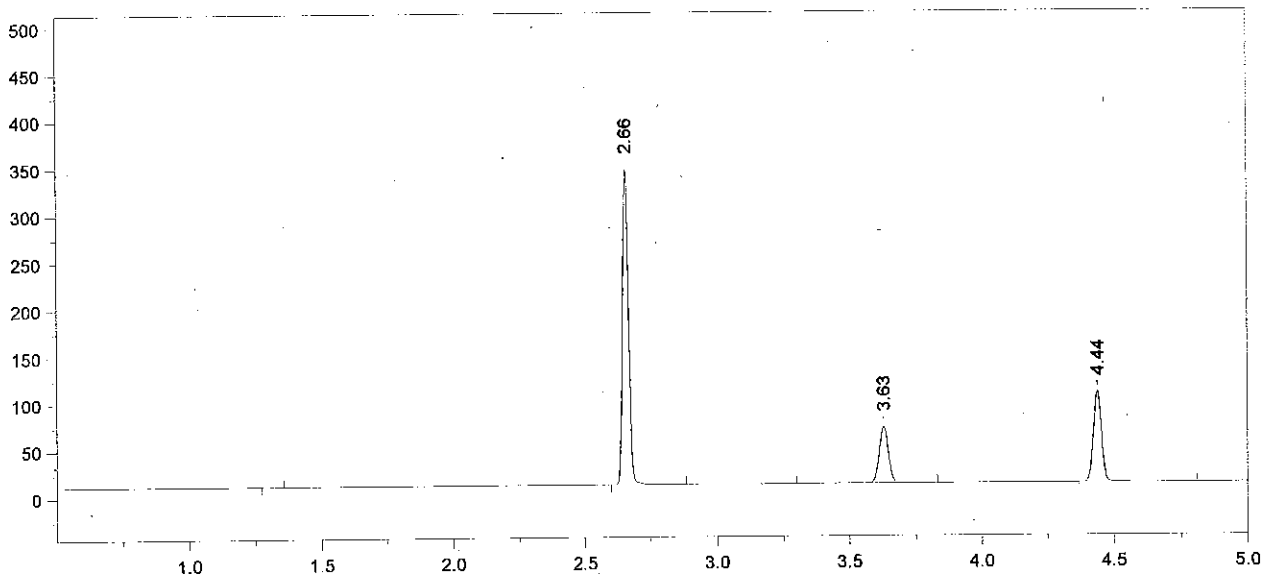


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 9:06:53 PM
Bound File Name = VFL07172013.0013.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 9:06:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	518234	0.4913	0.4010
5	3.63	t-Butanol	128433	0.9772	0.7976
6	4.44	n-Propanol	200224	1.0000	0.8162

13-14-400 17 RLM

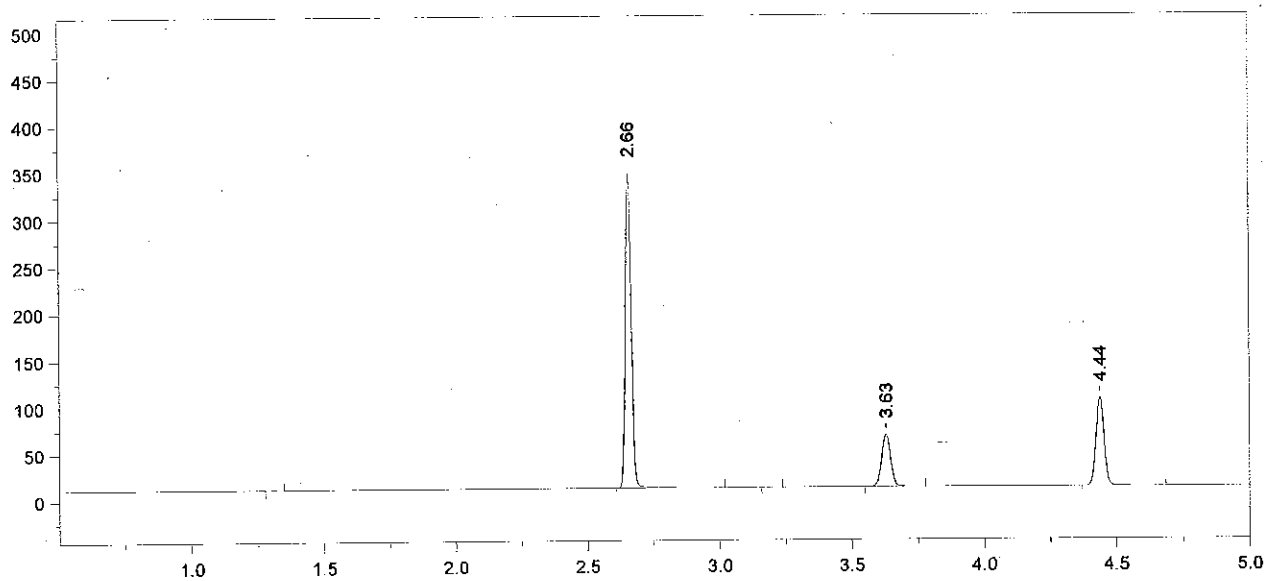


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 9:24:43 PM
Bound File Name = VFL07172013.0014.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 9:24:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	517369	0.4805	0.3922
5	3.63	t-Butanol	137564	1.0255	0.8370
6	4.44	n-Propanol	204363	1.0000	0.8162

13-14-400 18 RLM



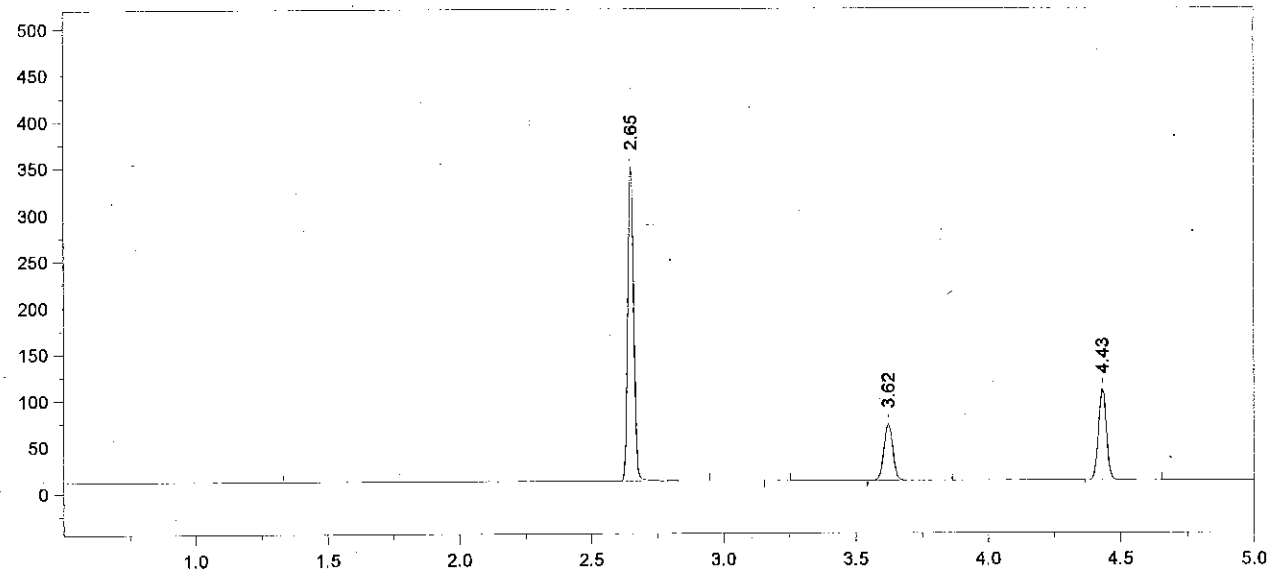
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 9:38:30 PM
Bound File Name = VFL07172013.0015.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 9:38:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	522071	0.4920	0.4015
5	3.63	t-Butanol	128694	0.9733	0.7944
6	4.44	n-Propanol	201432	1.0000	0.8162

13-14-400 19 RLM

Chrom Perfect Chromatogram Report



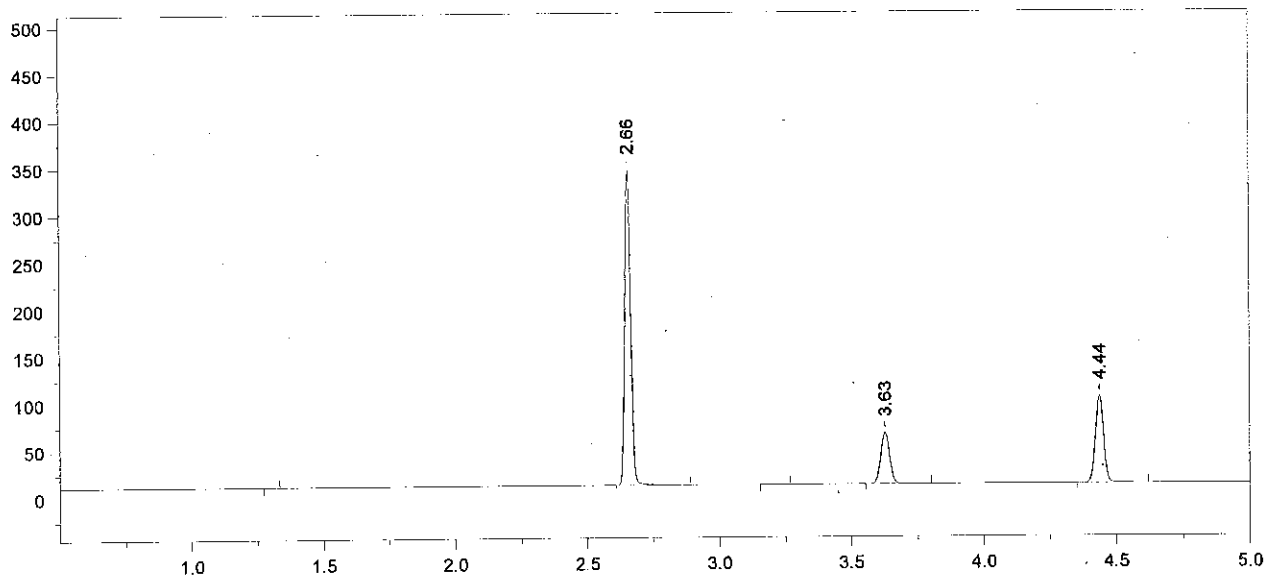
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 9:56:03 PM
Bound File Name = VFL07172013.0016.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 9:55:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	523720	0.4776	0.3898
5	3.62	t-Butanol	140474	1.0282	0.8392
6	4.43	n-Propanol	208146	1.0000	0.8162

13-14-400 20 RLM

Chrom Perfect Chromatogram Report

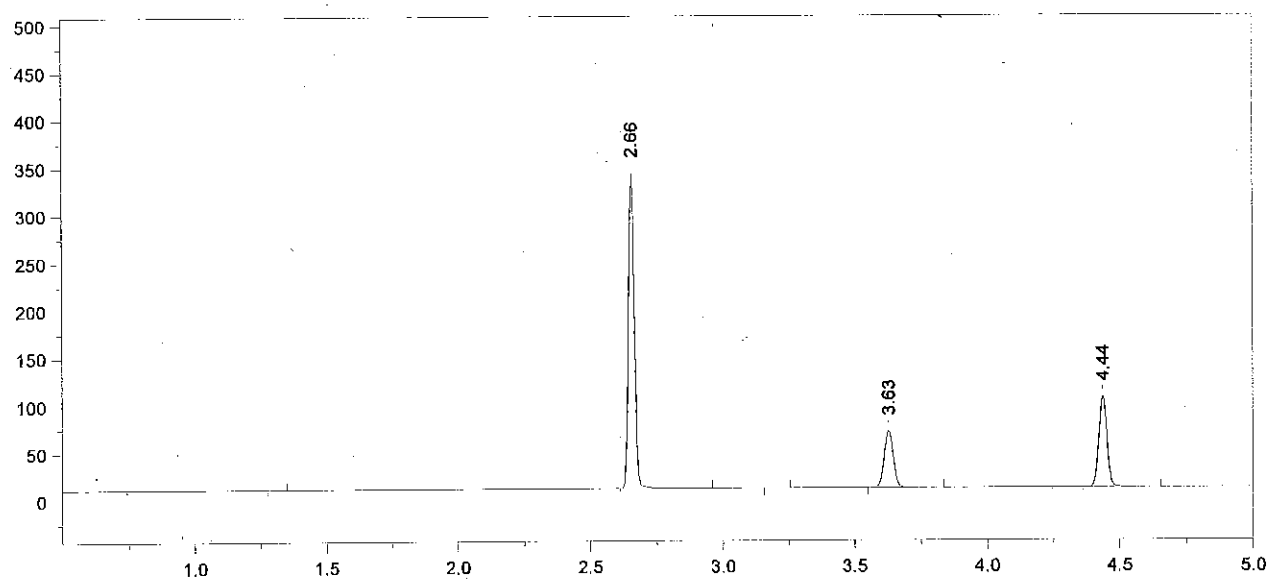


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 10:09:59 PM
Bound File Name = VFL07172013.0017.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 10:09:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	515622	0.4973	0.4059
5	3.63	t-Butanol	125418	0.9709	0.7925
6	4.44	n-Propanol	196794	1.0000	0.8162

13-14-400 21 RLM

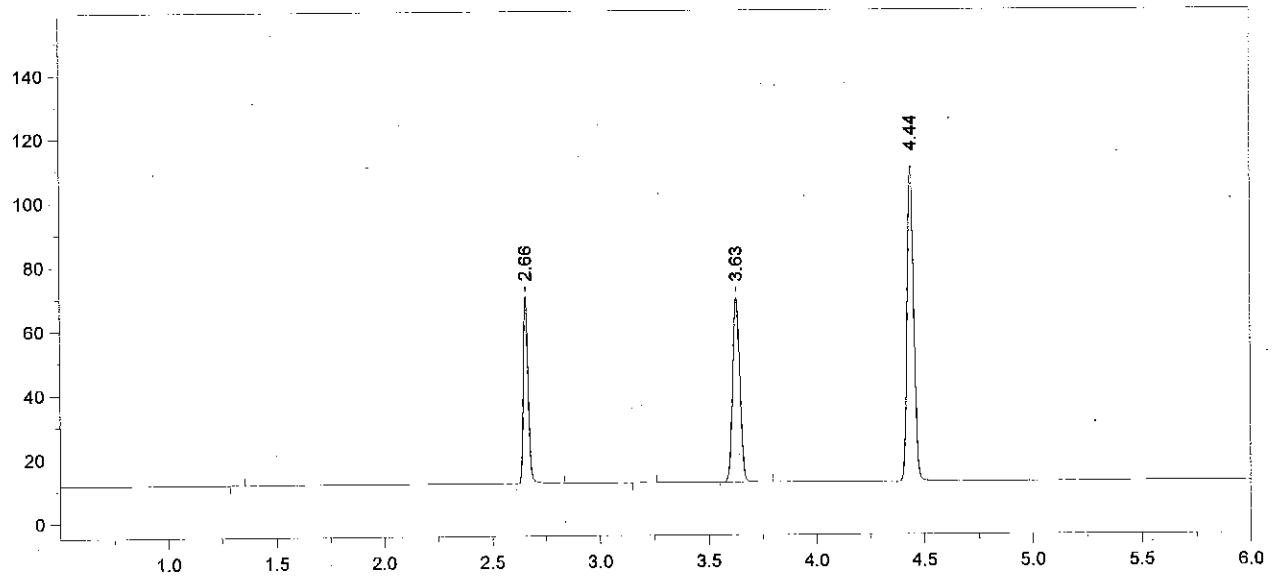


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 10:27:28 PM
Bound File Name = VFL07172013.0018.RAW
Sample Name = RLM 0.4
Date Taken = 7/17/2013 10:27:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	509974	0.4791	0.3911
5	3.63	t-Butanol	137587	1.0375	0.8468
6	4.44	n-Propanol	202033	1.0000	0.8162

13-14-400 22 RLM

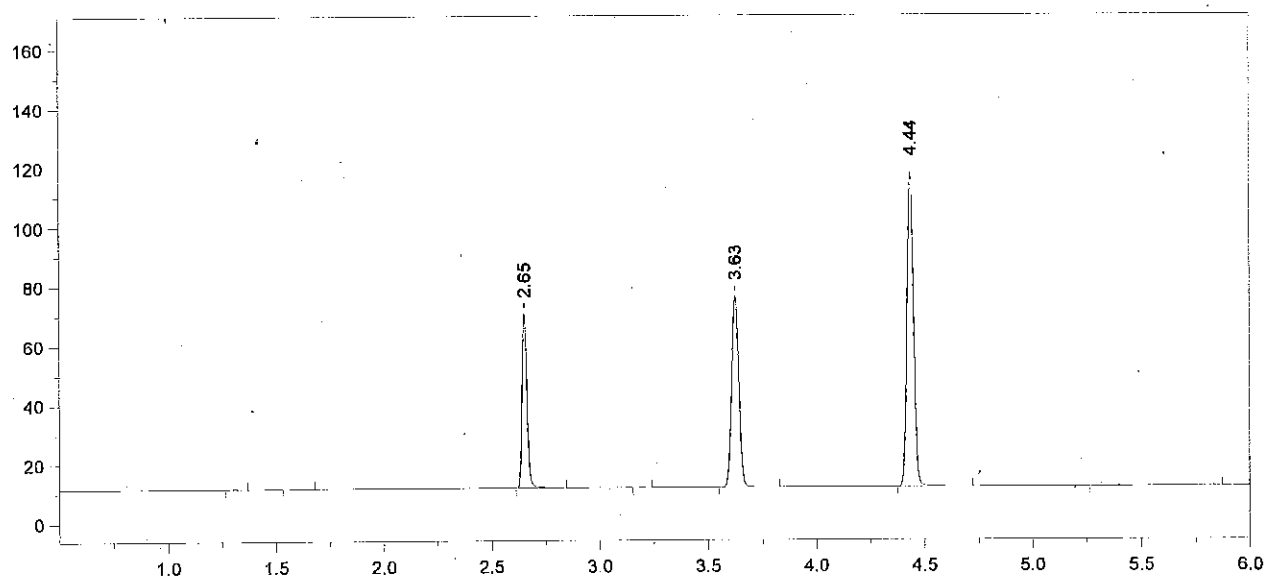


Format File Name = AlcoholVFL.FMT

Today's Date = 7/17/2013
Today's Time = 10:40:43 PM
Bound File Name = VFL07172013.0019.RAW
Sample Name = CCS
Date Taken = 7/17/2013 10:40:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	90936	0.0825 *
5	3.63	t-Butanol	133735	0.9736
6	4.44	n-Propanol	209271	1.0000

13-14-400 23 RZM



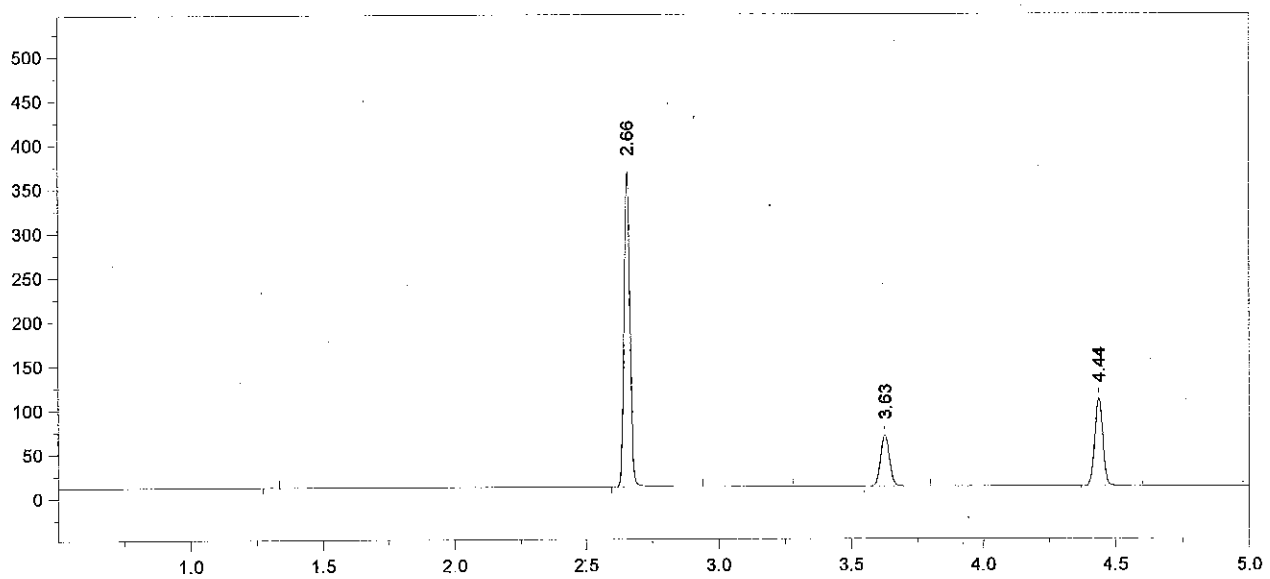
Format File Name = AlcoholVFL.FMT

Today's Date = 7/17/2013
Today's Time = 10:58:55 PM
Bound File Name = VFL07172013.0020.RAW
Sample Name = CCS
Date Taken = 7/17/2013 10:58:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	92234	0.0775 *
6	3.63	t-Butanol	149937	1.0118
7	4.44	n-Propanol	225762	1.0000

Avg # 19 + #20 = 0.080
RLT 7/18/13

13-14-400 24 RLT



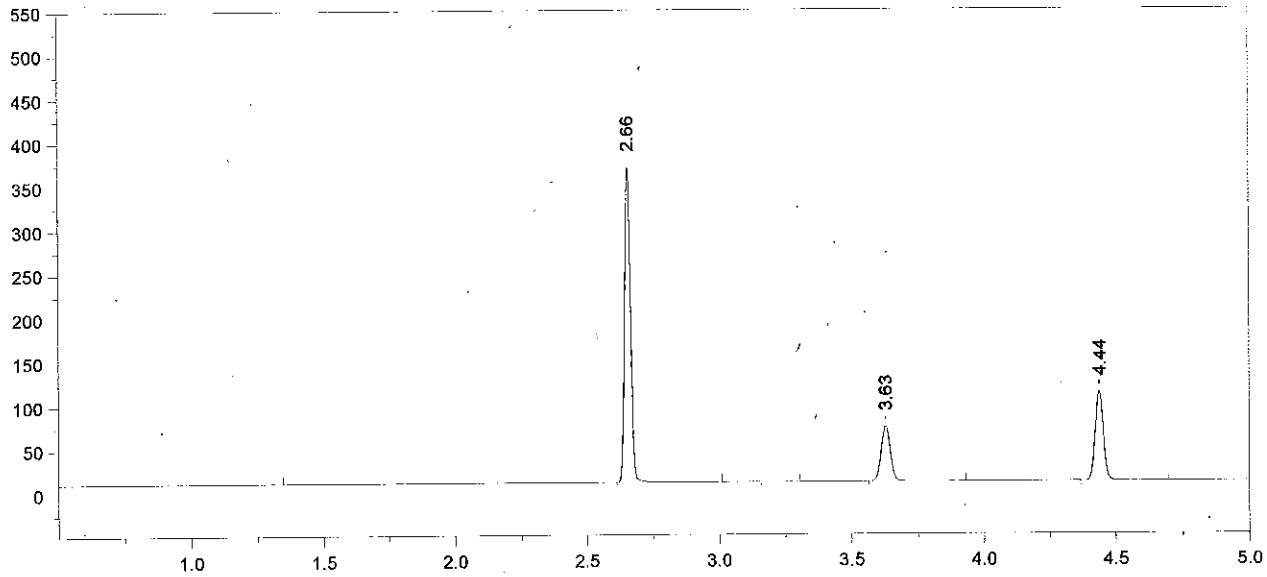
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 11:12:54 PM
Bound File Name = VFL07172013.0021.RAW
Sample Name = ALB 0.4
Date Taken = 7/17/2013 11:12:50 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	549679	0.4984	0.4068
5	3.63	t-Butanol	134324	0.9775	0.7978
6	4.44	n-Propanol	209358	1.0000	0.8162

13-14-400 25 RZm

Chrom Perfect Chromatogram Report

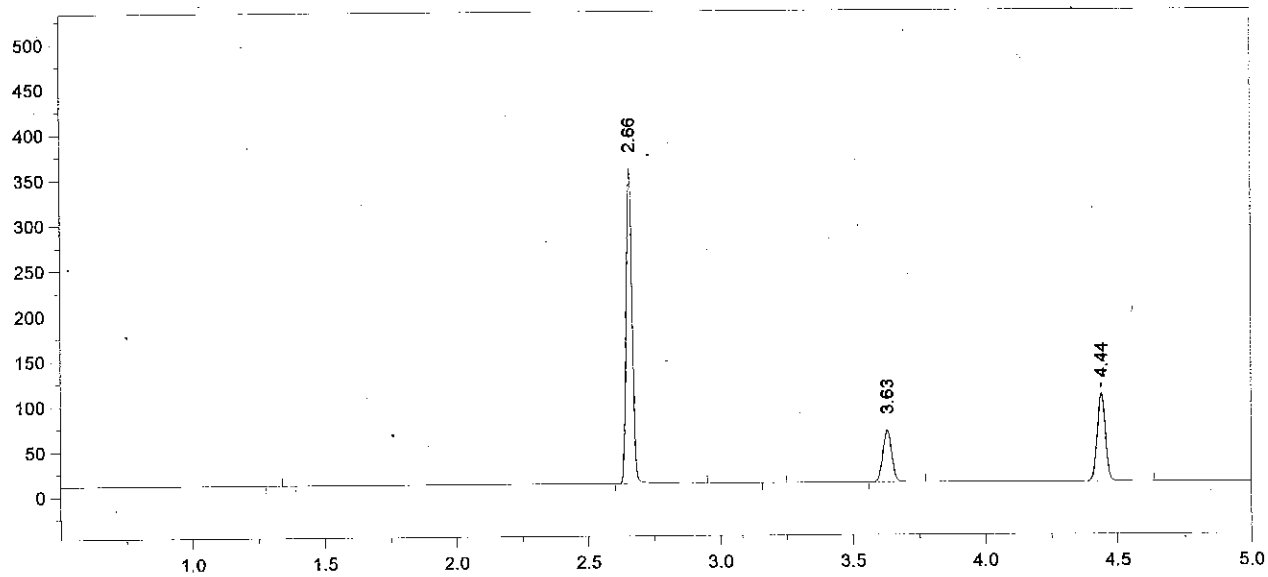


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 11:30:17 PM
Bound File Name = VFL07172013.0022.RAW
Sample Name = ALB 0.4
Date Taken = 7/17/2013 11:30:11 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	555509	0.4897	0.3997
5	3.63	t-Butanol	144671	1.0237	0.8355
6	4.44	n-Propanol	215307	1.0000	0.8162

13-14-400 26 RLm



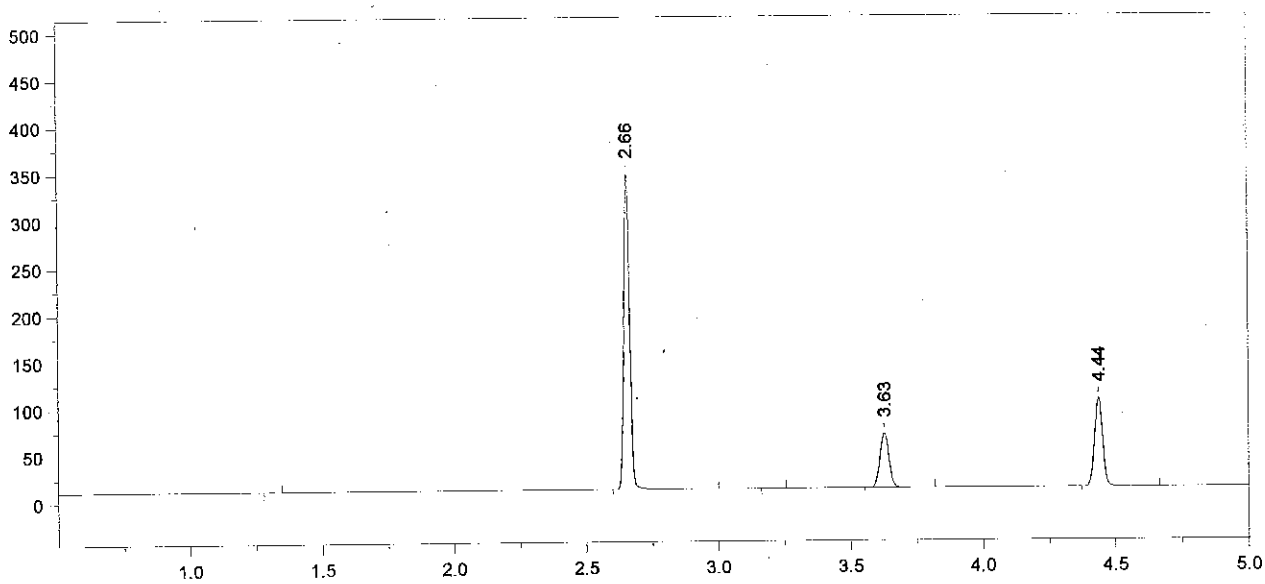
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/17/2013
Today's Time = 11:44:11 PM
Bound File Name = VFL07172013.0023.RAW
Sample Name = ALB 0.4
Date Taken = 7/17/2013 11:44:02 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	541807	0.4975	0.4061
5	3.63	t-Butanol	132485	0.9765	0.7970
6	4.44	n-Propanol	206700	1.0000	0.8162

13-14-400 27 AZm

Chrom Perfect Chromatogram Report



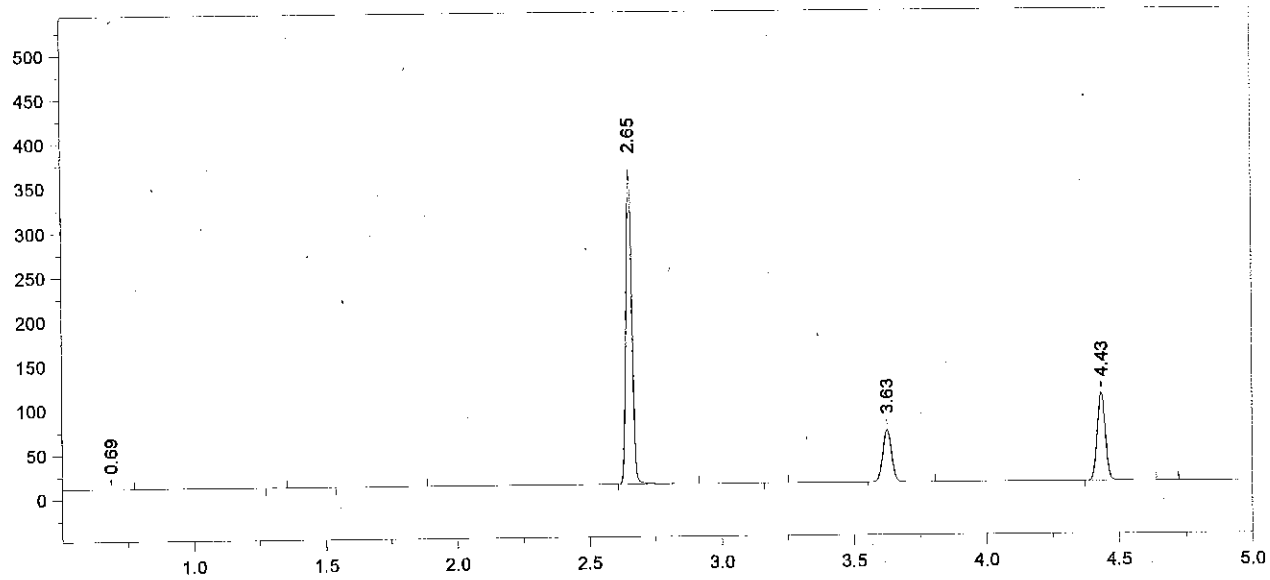
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 12:01:46 AM
Bound File Name = VFL07172013.0024.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 12:01:36 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	515057	0.4894	0.3994
5	3.63	t-Butanol	134639	1.0267	0.8380
6	4.44	n-Propanol	199776	1.0000	0.8162

13-14-400 28 RLM

Chrom Perfect Chromatogram Report

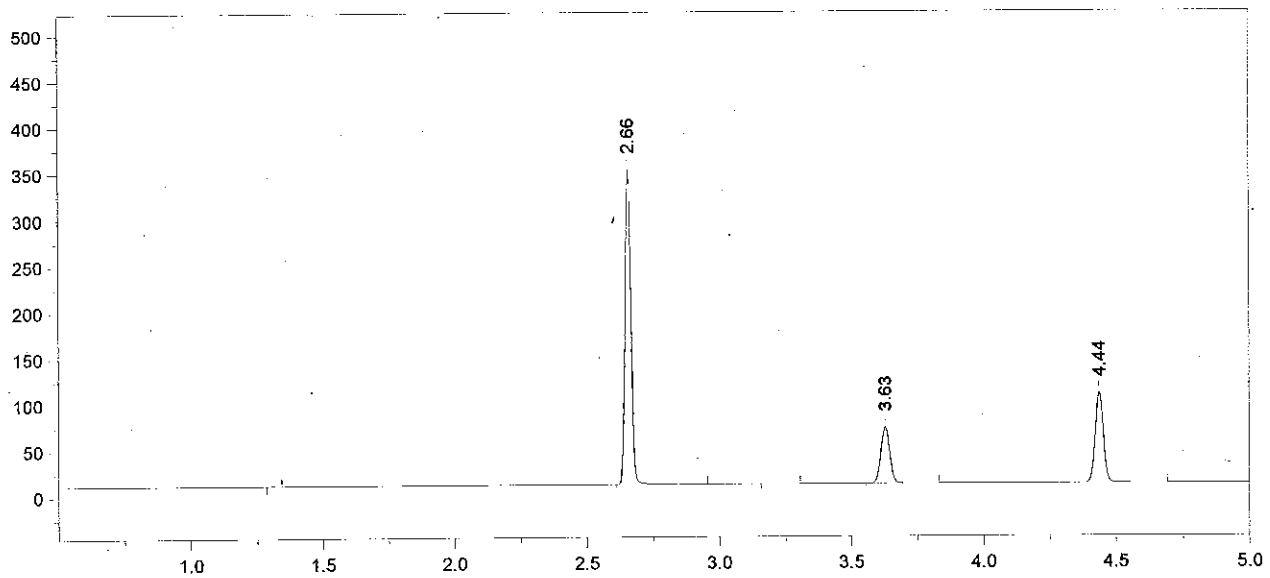


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 12:14:57 AM
Bound File Name = VFL07172013.0025.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 12:14:49 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
4	2.65	Ethanol	547704	0.4925	0.4020
6	3.63	t-Butanol	136790	0.9873	0.8058
7	4.43	n-Propanol	211076	1.0000	0.8162

13-14-400 29



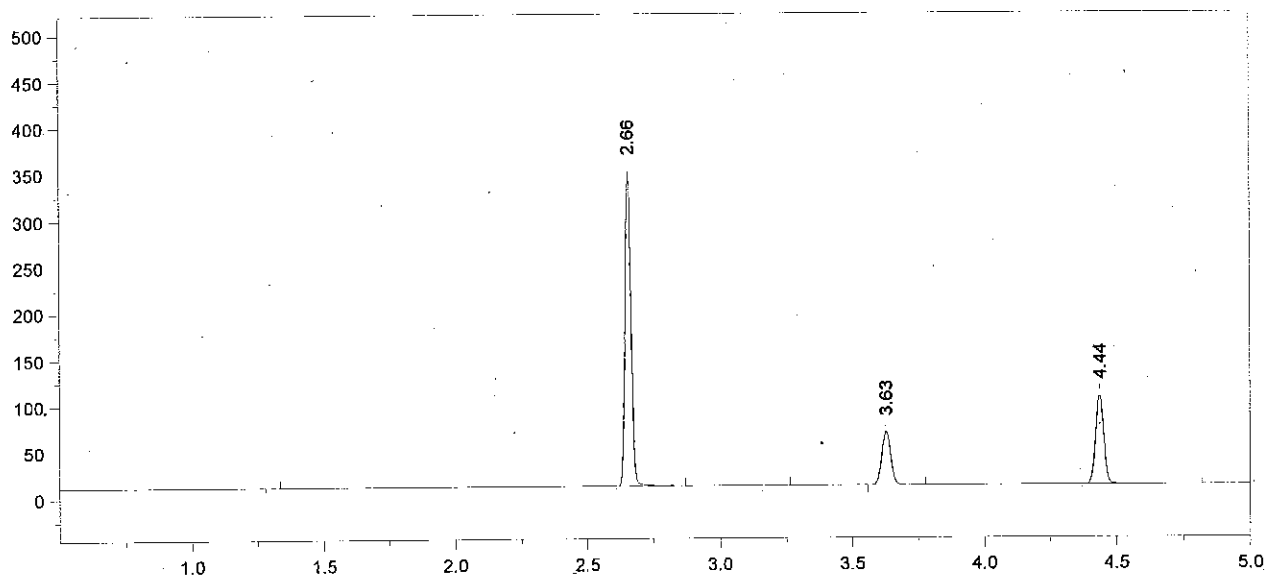
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 12:33:08 AM
Bound File Name = VFL07172013.0026.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 12:33:00 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	526242	0.4830	0.3942
5	3.63	t-Butanol	140933	1.0382	0.8474
6	4.44	n-Propanol	206800	1.0000	0.8162

13-14-400 30

Chrom Perfect Chromatogram Report

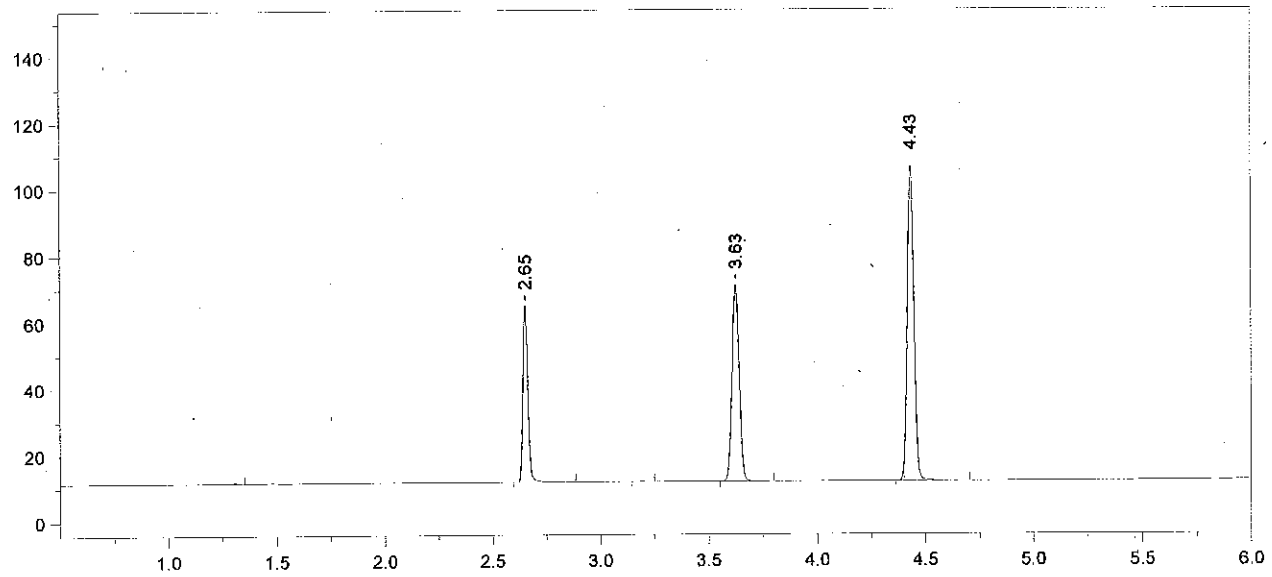


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 12:47:12 AM
Bound File Name = VFL07172013.0027.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 12:47:06 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	523225	0.4850	0.3959
5	3.63	t-Butanol	132590	0.9865	0.8051
6	4.44	n-Propanol	204769	1.0000	0.8162

13-14-400 31 RLM

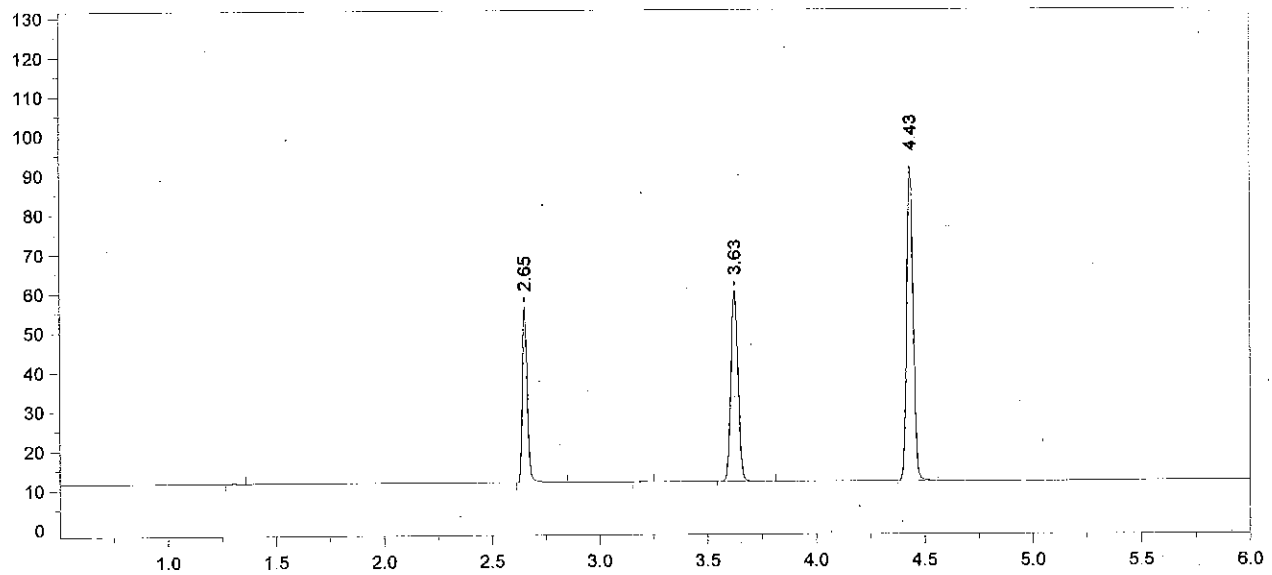


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 1:04:33 AM
Bound File Name = VFL07172013.0028.RAW
Sample Name = CCS
Date Taken = 7/18/2013 1:04:25 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	83201	0.0780 *
5	3.63	t-Butanol	136824	1.0293
6	4.43	n-Propanol	202507	1.0000

13-14-400 32 [illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 1:18:54 AM
Bound File Name = VFL07172013.0029.RAW
Sample Name = CCS
Date Taken = 7/18/2013 1:18:45 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07172013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	70119	0.0785 *
5	3.63	t-Butanol	112493	1.0111
6	4.43	n-Propanol	169491	1.0000

Avg #28 + #29 = 0.078
RLM 7/18/13

13-14-400 33 RLM

Headspace Alcohol Analysis Standards Coversheet

Analyst: RLM Date: 7/18/13

7/23/2013

Calibration Standards:

Lot ID: ES-06262013 Preparation Date: 06/26/2013 Expiration Date: 09/26/2013

(c)

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.024	0.081	0.206	0.400	0.081
Acceptance Range (± 10%)	0.007	0.026	0.089	0.227	0.440	0.089
	0.005	0.021	0.073	0.186	0.360	0.073

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	1.91		
		Methanol	2.01		
		Ethanol	2.65		
		Acetone	3.05		
		Isopropanol	3.19		
		T- butanol	3.62		
		n-propanol	4.43		
3	Standard A		0.006	(Y) N	
4	Standard B		0.023	(Y) N	
5	Standard C		0.080	(Y) N	
6	Standard D		0.203	(Y) N	
7	Standard E		0.401	(Y) N	
8	Aqueous QC		0.0772	(Y) N	Avg = 0.078 (97% recovery) ✓
9	Aqueous QC		0.0785	(Y) N	

13-14-400 34 RLM

File Name: C:\Methods\VFL07182013.CAL
Version: 7

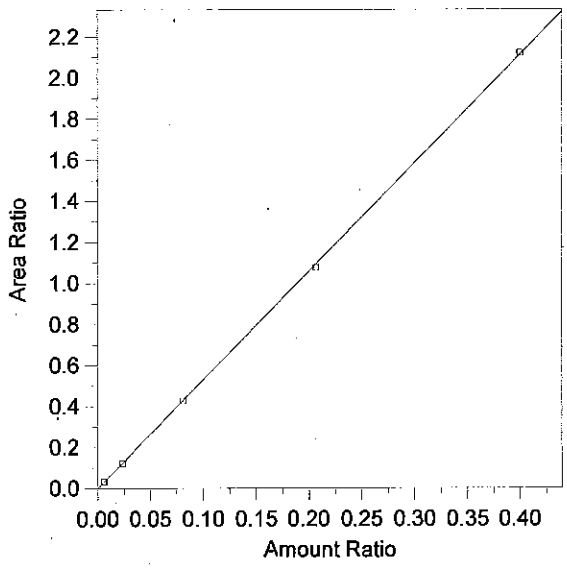
Creator:
Description:
Reason for change:

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:	2.656 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 = 5.279034 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998747
Average error:	1.846%
Average CF:	5.269357
RSD:	2.500%

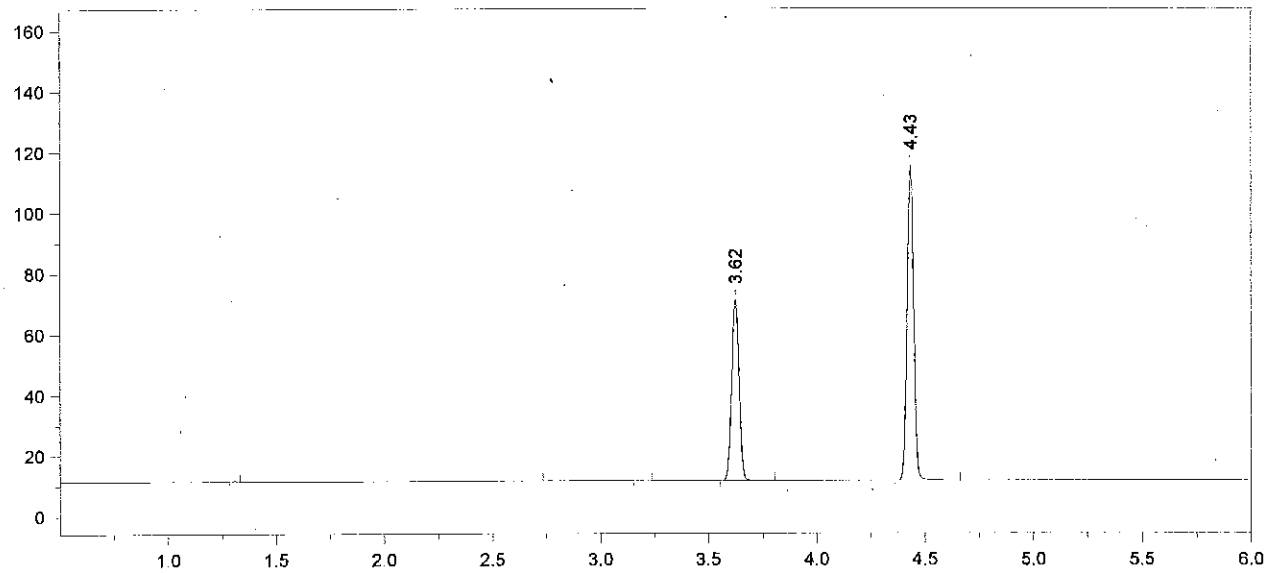
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0059	6677.923	1131851	3.720	0.0059	3.230499E-02	C:\Alcohol Data\SIM07182013\SIM07182013.0003.BND	7/18/2013 5:15:38 PM
3	0.0237	25258.85	1065774	-2.887	0.0237	0.1215011	C:\Alcohol Data\SIM07182013\SIM07182013.0004.BND	7/18/2013 5:33:05 PM
4	0.0812	90598.25	1115742	-0.689	0.0812	0.4257061	C:\Alcohol Data\SIM07182013\SIM07182013.0005.BND	7/18/2013 5:47:05 PM
5	0.2065	229583.5	1111785	-1.499	0.2065	1.073782	C:\Alcohol Data\SIM07182013\SIM07182013.0006.BND	7/18/2013 6:04:34 PM
6	0.3998	431142	1078394	0.438	0.3998	2.119793	C:\Alcohol Data\SIM07182013\SIM07182013.0007.BND	7/18/2013 6:18:18 PM

13-14-400 35 RLm

File Name = C:\Alcohol Data\SIM07182013\SIM07182013.SEQ
Version = 1
File Date = 7/18/2013 4:07:40 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM07182013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM07182013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM07182013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM07182013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM07182013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM07182013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM07182013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM07182013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM07182013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM07182013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM07182013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM07182013.0012.raw	simsoln.met	RLM 0.4	1.00	1.00
13	SIM07182013.0013.raw	simsoln.met	RLM 0.4	1.00	1.00
14	SIM07182013.0014.raw	simsoln.met	RLM 0.4	1.00	1.00
15	SIM07182013.0015.raw	simsoln.met	RLM 0.4	1.00	1.00
16	SIM07182013.0016.raw	simsoln.met	RLM 0.4	1.00	1.00
17	SIM07182013.0017.raw	simsoln.met	RLM 0.4	1.00	1.00
18	SIM07182013.0018.raw	simsoln.met	RLM 0.4	1.00	1.00
19	SIM07182013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM07182013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM07182013.0021.raw	simsoln.met	ALB 0.4	1.00	1.00
22	SIM07182013.0022.raw	simsoln.met	ALB 0.4	1.00	1.00
23	SIM07182013.0023.raw	simsoln.met	ALB 0.4	1.00	1.00
24	SIM07182013.0024.raw	simsoln.met	ALB 0.4	1.00	1.00
25	SIM07182013.0025.raw	simsoln.met	ALB 0.4	1.00	1.00
26	SIM07182013.0026.raw	simsoln.met	ALB 0.4	1.00	1.00
27	SIM07182013.0027.raw	simsoln.met	ALB 0.4	1.00	1.00
28	SIM07182013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM07182013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-14-400 36 RLM

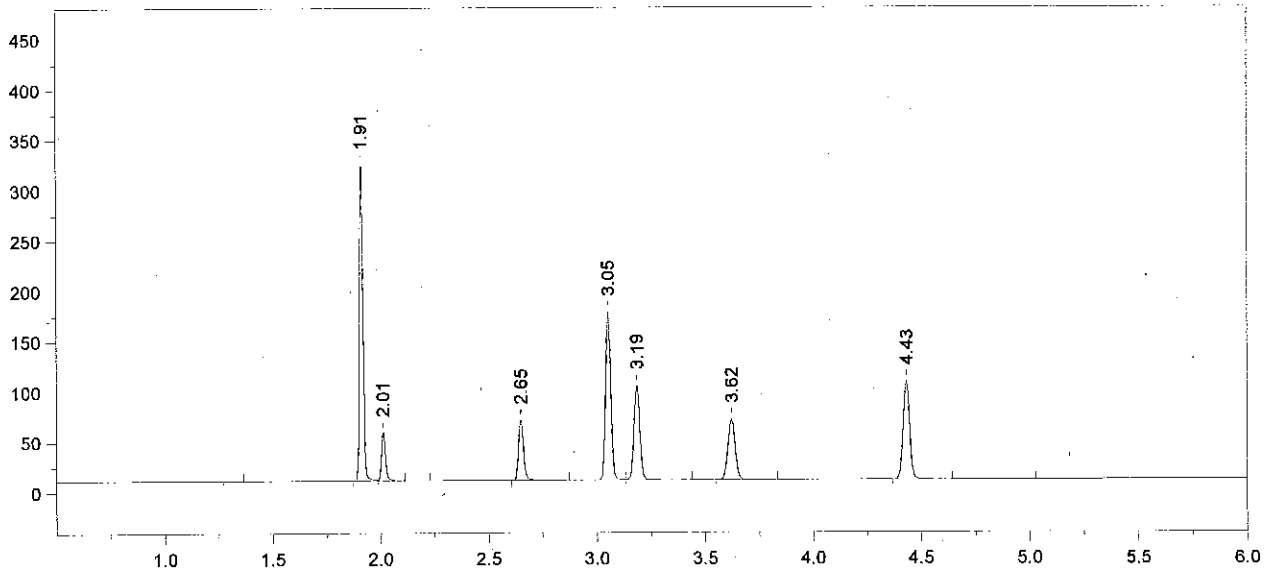


Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:04:57 AM
Bound File Name = SIM07182013.0001.RAW
Sample Name = Blank
Date Taken = 7/18/2013 4:44:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	3.62	t-Butanol	138508	0.9577
6	4.43	n-Propanol	219895	1.0000

13-14-400 37 RLm

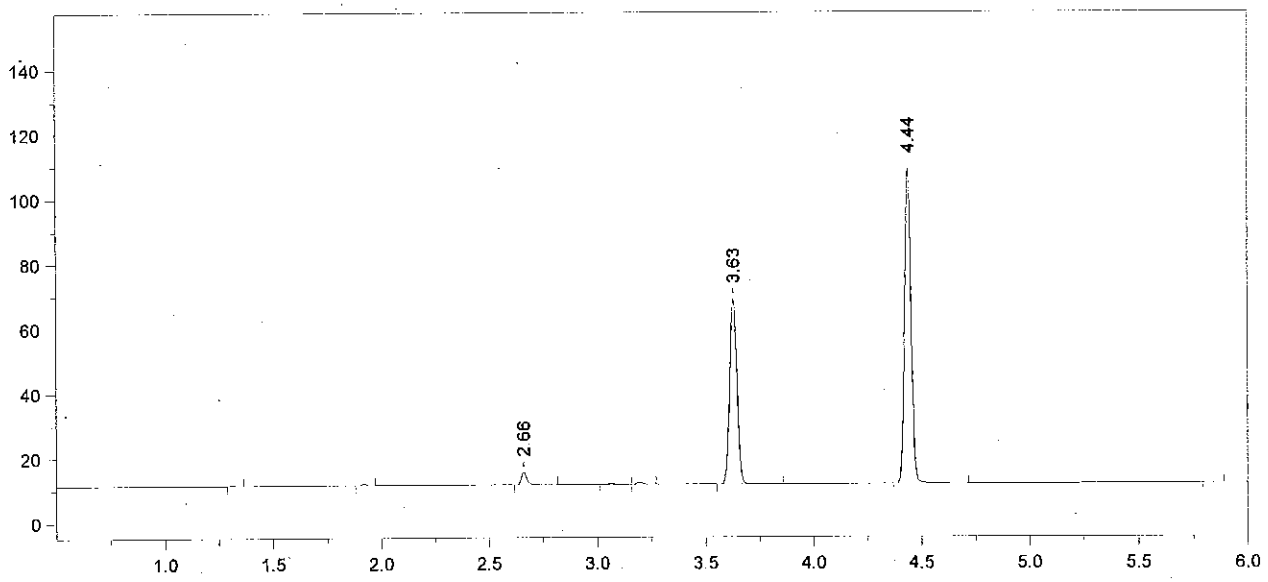


Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:05:03 AM
Bound File Name = SIM07182013.0002.RAW
Sample Name = TMX
Date Taken = 7/18/2013 5:01:36 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.91	Acetaldehyde	368623	0.0720
4	2.01	Methanol	59369	0.1210
5	2.65	Ethanol	93277	0.0854
6	3.05	Acetone	286428	0.0690
7	3.19	Isopropanol	175925	0.0830
8	3.62	t-Butanol	139775	1.0273
9	4.43	n-Propanol	206860	1.0000

13-14-400 38 RLM

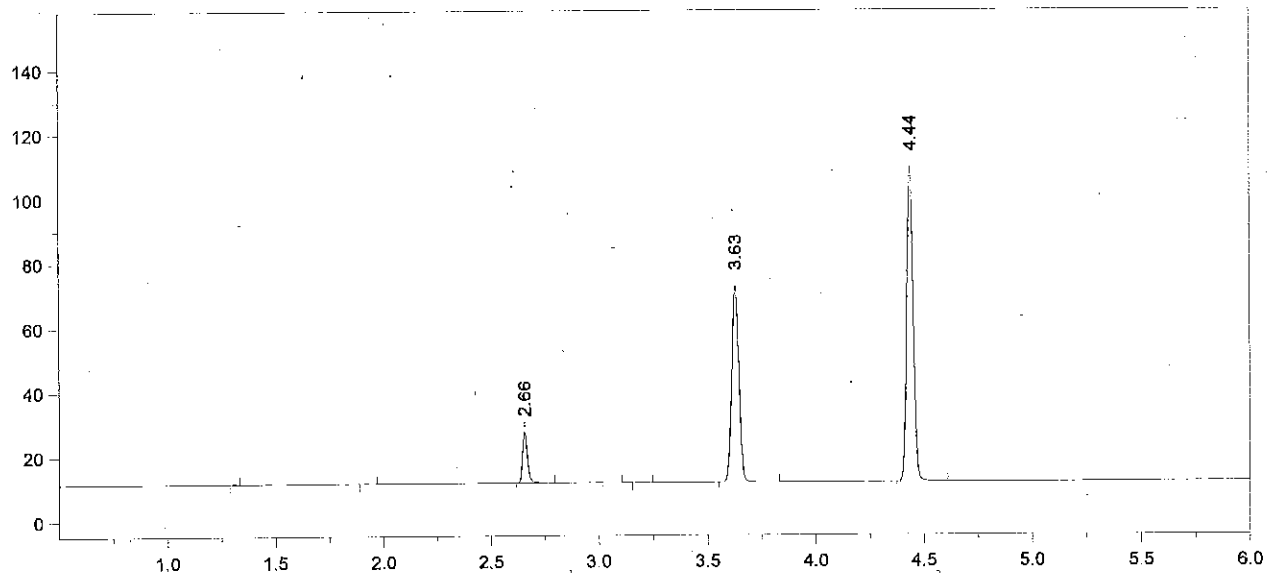


Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:05:08 AM
Bound File Name = SIM07182013.0003.RAW
Sample Name = STD A
Date Taken = 7/18/2013 5:15:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	06678	0.0061 *
7	3.63	t-Butanol	132520	0.9747
8	4.44	n-Propanol	206715	1.0000

13-14-400 39 RZM



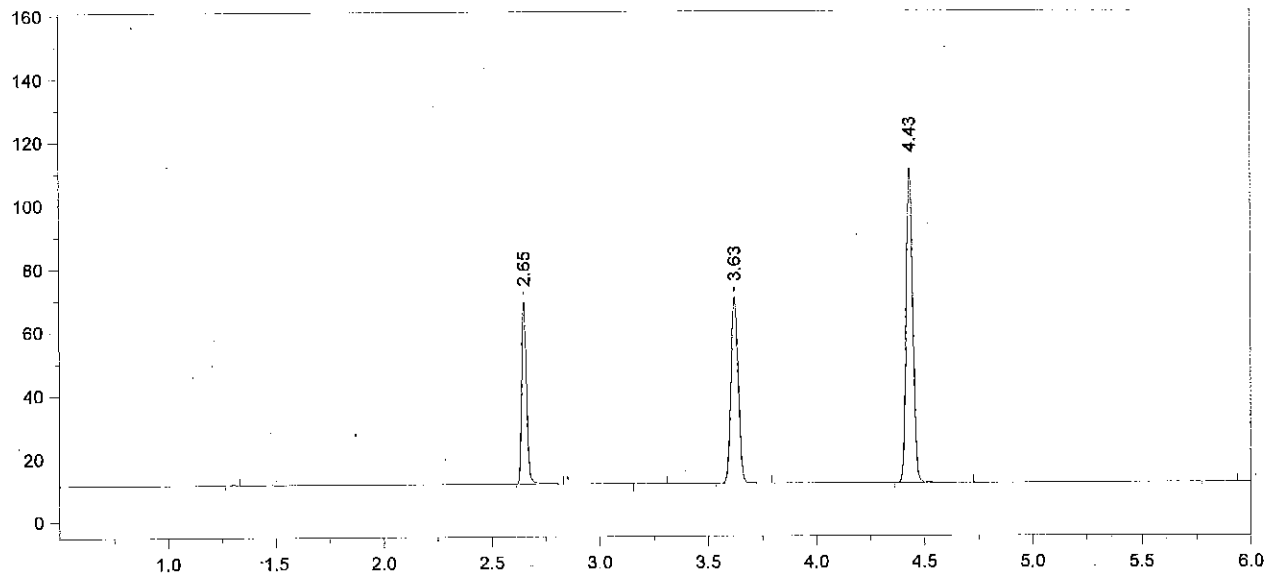
Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:05:14 AM
Bound File Name = SIM07182013.0004.RAW
Sample Name = STD B
Date Taken = 7/18/2013 5:33:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	25259	0.0230 *
7	3.63	t-Butanol	141344	1.0337
8	4.44	n-Propanol	207890	1.0000

13-14-400 40 RZm

Chrom Perfect Chromatogram Report

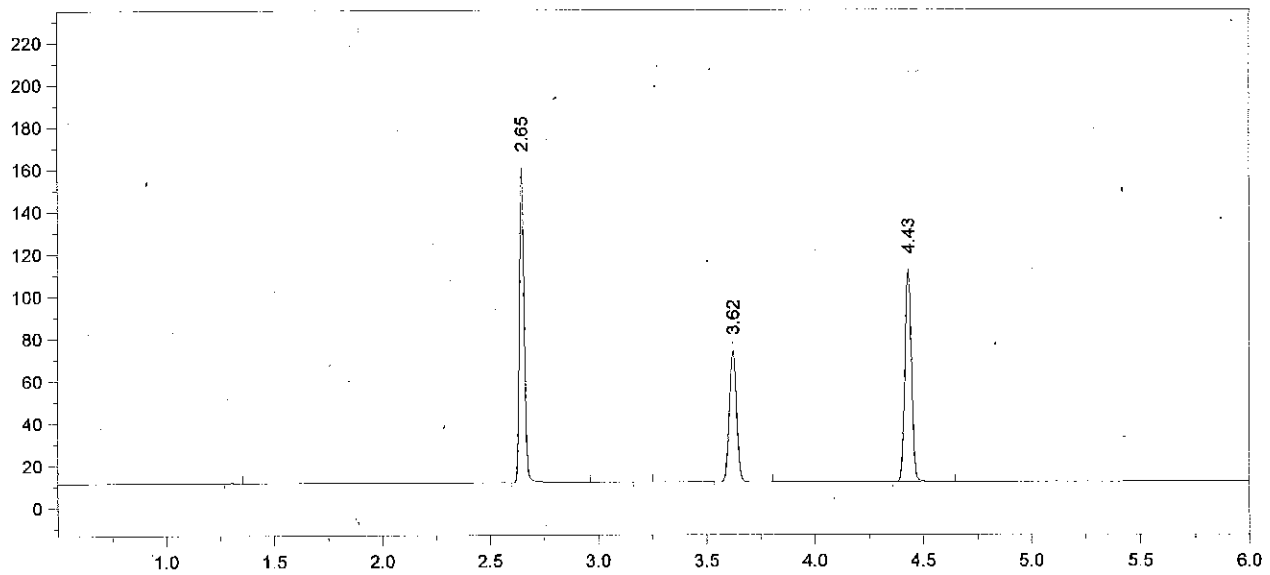


Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:05:20 AM
Bound File Name = SIM07182013.0005.RAW
Sample Name = STD C
Date Taken = 7/18/2013 5:46:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90598	0.0806 *
5	3.63	t-Butanol	136549	0.9755
6	4.43	n-Propanol	212819	1.0000

13-14-400 41 RZM

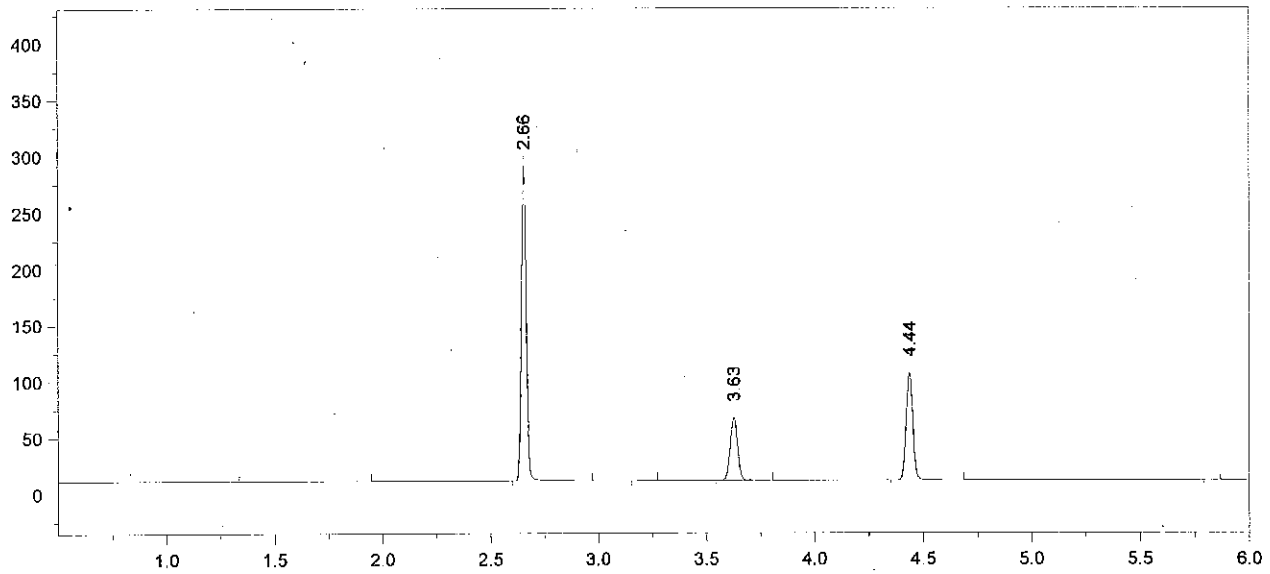


Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:05:26 AM
Bound File Name = SIM07182013.0006.RAW
Sample Name = STD D
Date Taken = 7/18/2013 6:04:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	229584	0.2034 *
5	3.62	t-Butanol	143806	1.0226
6	4.43	n-Propanol	213808	1.0000

13-14-400 42 [illegible]



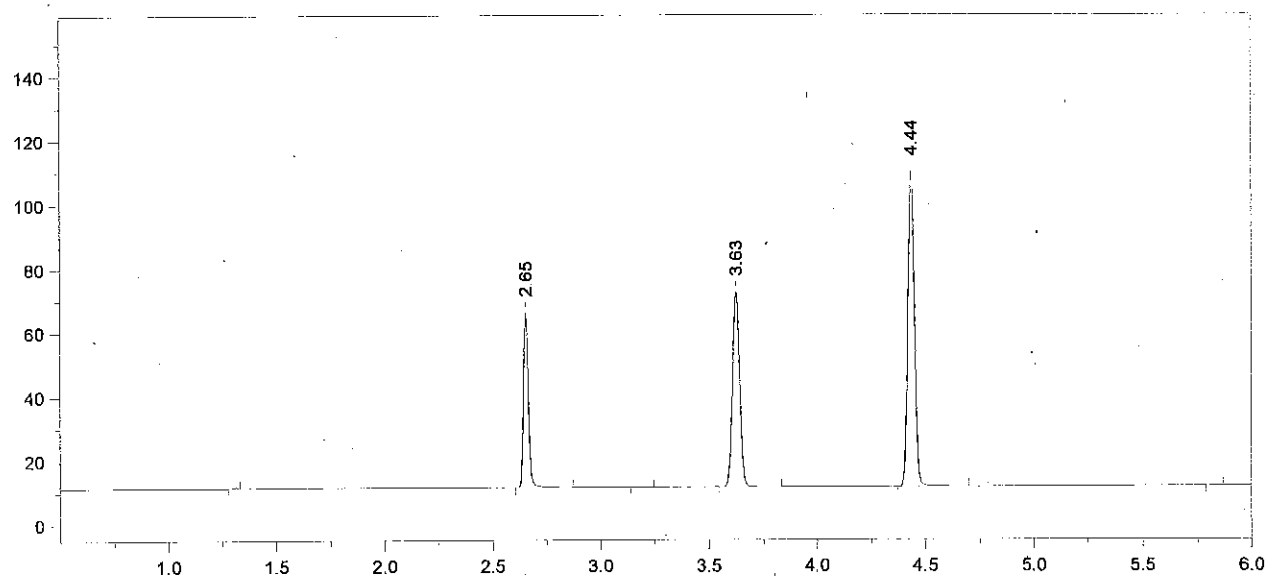
Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 8:05:33 AM
Bound File Name = SIM07182013.0007.RAW
Sample Name = STD E
Date Taken = 7/18/2013 6:18:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	431142	0.4015 *
6	3.63	t-Butanol	129261	0.9662
7	4.44	n-Propanol	203389	1.0000

13-14-400 43 RLM

Chrom Perfect Chromatogram Report

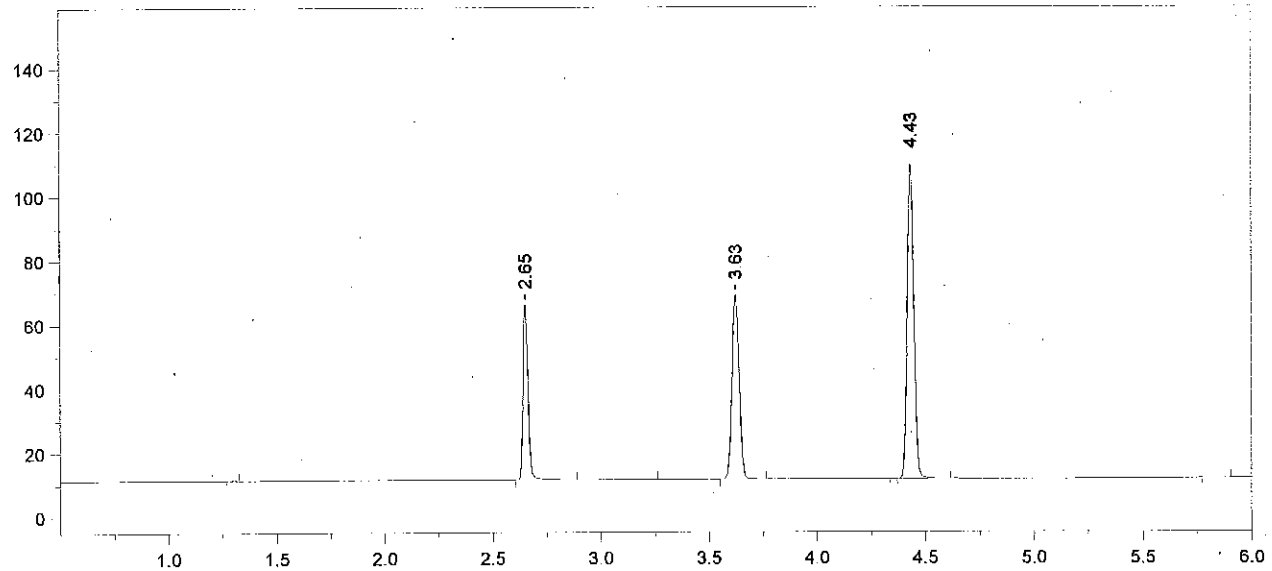


Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 6:35:59 PM
Bound File Name = SIM07182013.0008.RAW
Sample Name = AQ QC
Date Taken = 7/18/2013 6:35:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	85274	0.0772 *
5	3.63	t-Butanol	141561	1.0285
6	4.44	n-Propanol	209252	1.0000

13-14-400 44 RZm



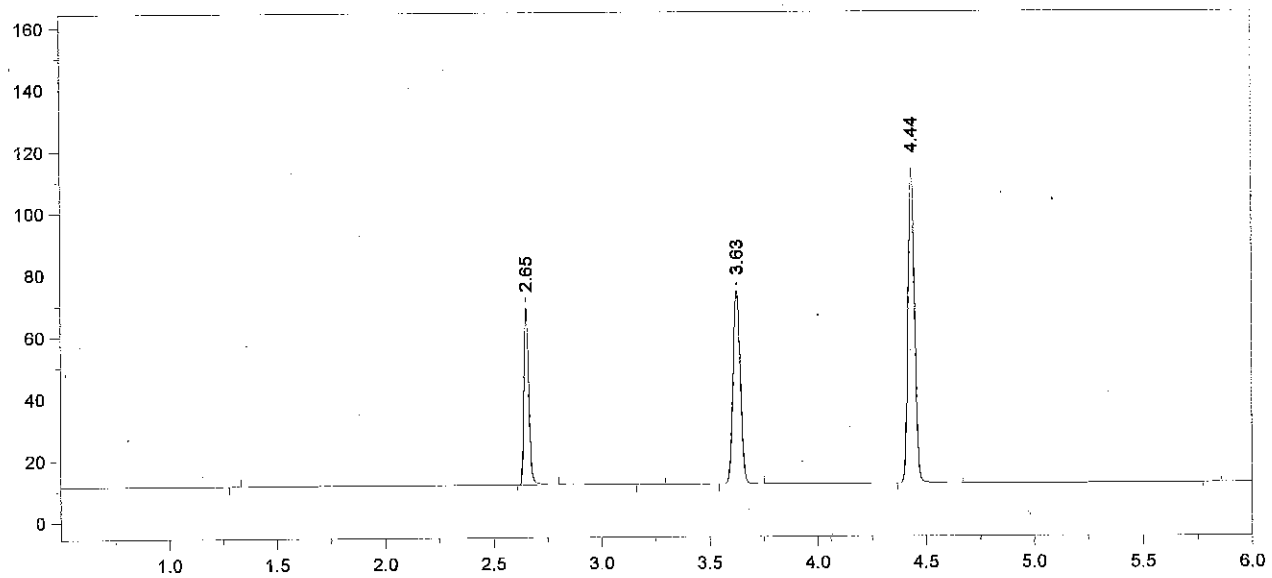
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 6:49:48 PM
Bound File Name = SIM07182013.0009.RAW
Sample Name = AQ QC
Date Taken = 7/18/2013 6:49:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	86381	0.0785 *
5	3.63	t-Butanol	132869	0.9688
6	4.43	n-Propanol	208524	1.0000

Avg #8 + #9 = 0.078
RKM 7/19/13

13-14-400 45 RKM



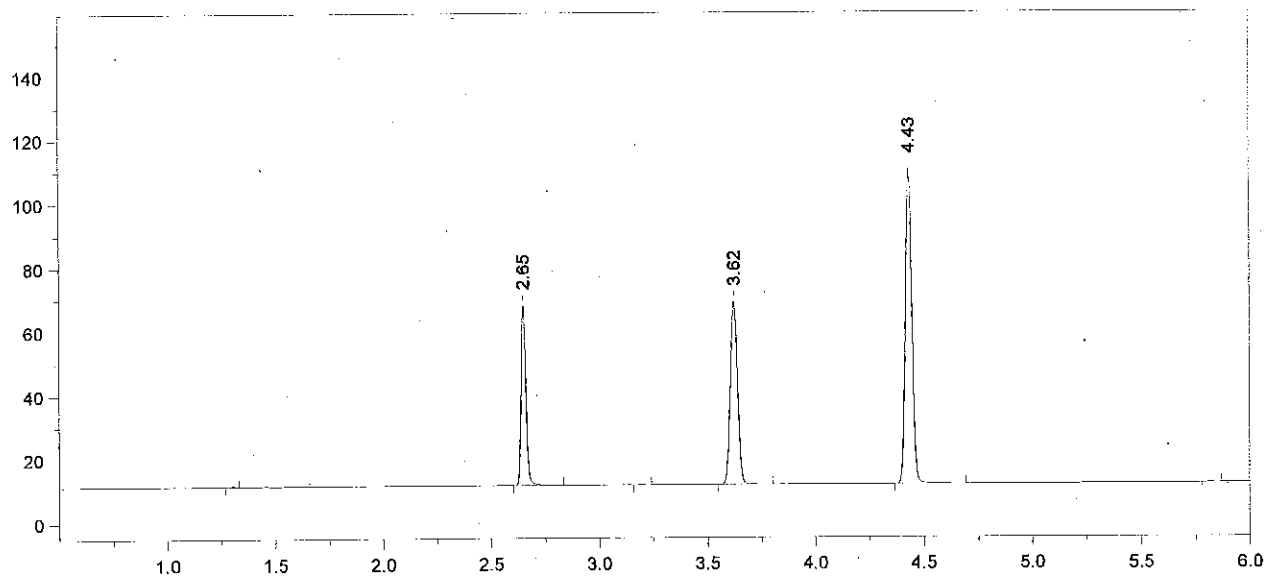
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:07:23 PM
Bound File Name = SIM07182013.0010.RAW
Sample Name = CCS
Date Taken = 7/18/2013 7:07:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	88942	0.0779 *
5	3.63	t-Butanol	145287	1.0214
6	4.44	n-Propanol	216263	1.0000

13-14-400 46 RLM

Chrom Perfect Chromatogram Report



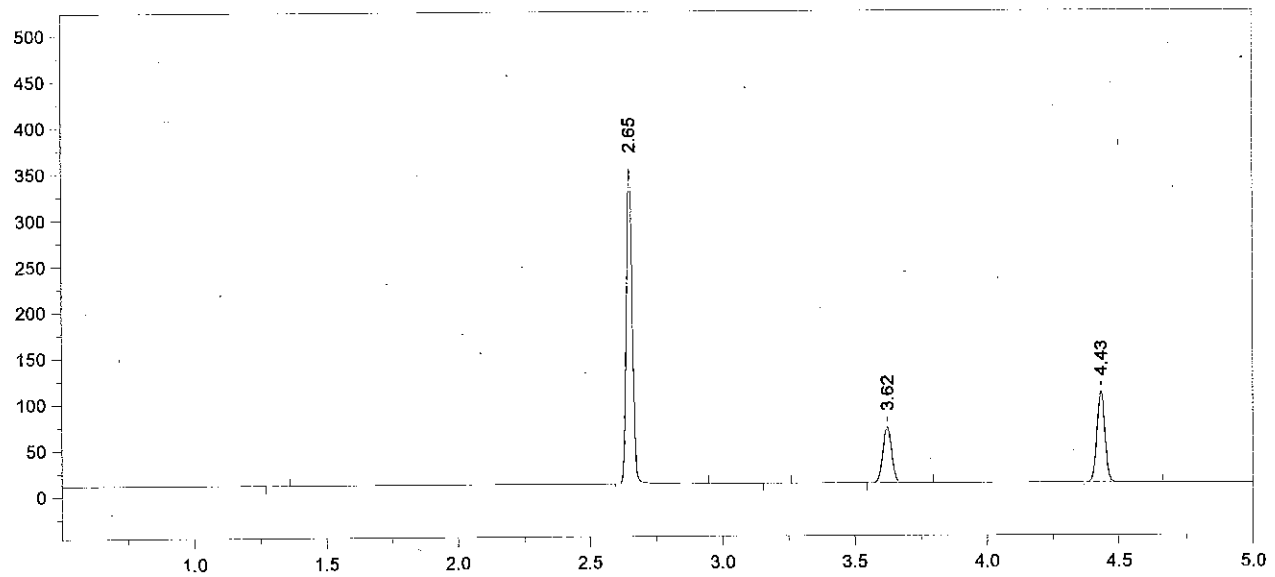
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 7:21:14 PM
Bound File Name = SIM07182013.0011.RAW
Sample Name = CCS
Date Taken = 7/18/2013 7:21:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	88203	0.0798 *
5	3.62	t-Butanol	133301	0.9680
6	4.43	n-Propanol	209374	1.0000

Avg #10 + #11 = 0.079
RLM 7/19/13

13-14-400 47 RLM



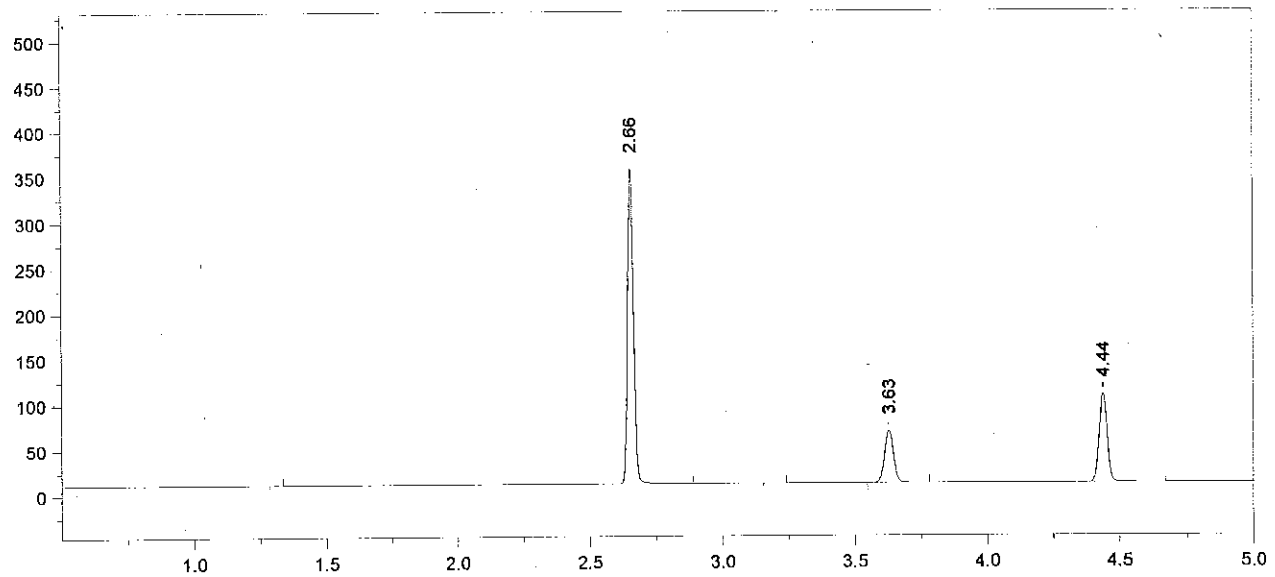
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 7:38:46 PM
Bound File Name = SIM07182013.0012.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 7:38:38 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	529964	0.4812	0.3927
5	3.62	t-Butanol	140787	1.0260	0.8374
6	4.43	n-Propanol	208631	1.0000	0.8162

13-14-400 48 RLm

Chrom Perfect Chromatogram Report

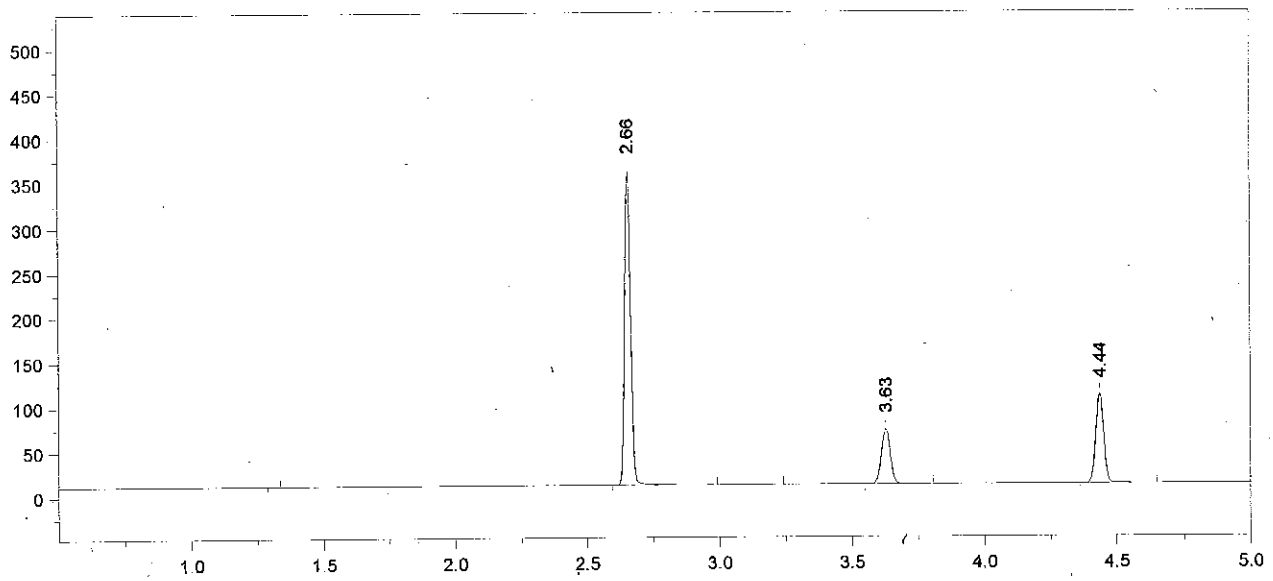


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 7:51:57 PM
Bound File Name = SIM07182013.0013.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 7:51:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	535203	0.4872	0.3976
5	3.63	t-Butanol	133156	0.9728	0.7940
6	4.44	n-Propanol	208104	1.0000	0.8162

13-14-400 49 RLM

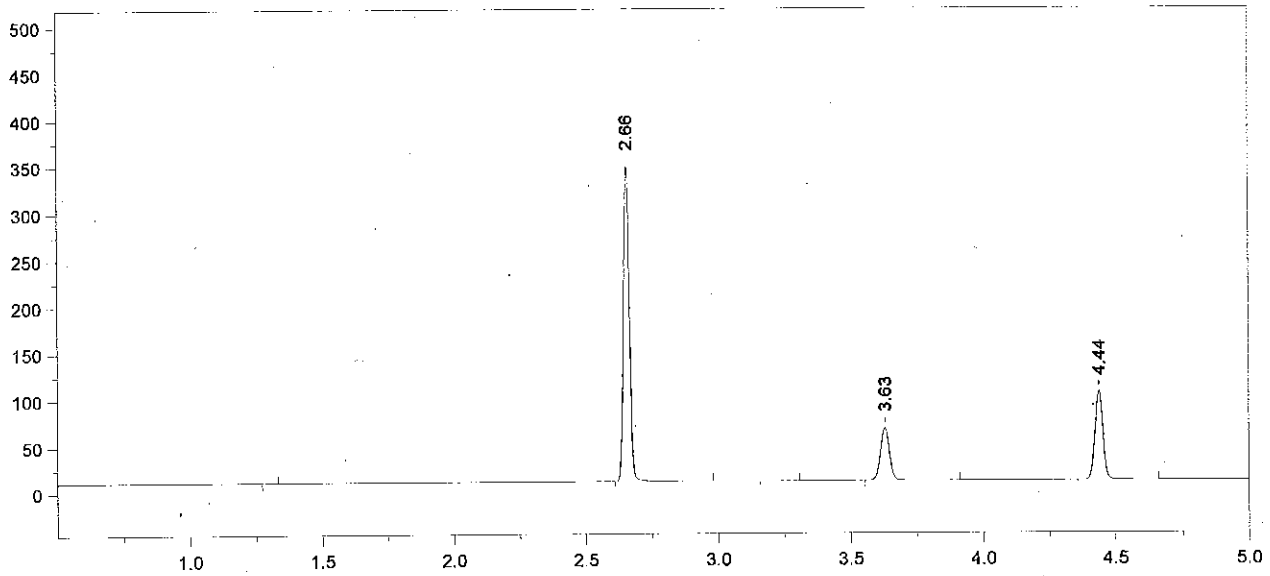


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 8:10:09 PM
Bound File Name = SIM07182013.0014.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 8:10:02 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	541273	0.4828	0.3941
5	3.63	t-Butanol	142409	1.0195	0.8321
6	4.44	n-Propanol	212365	1.0000	0.8162

13-14-400 50 RLM



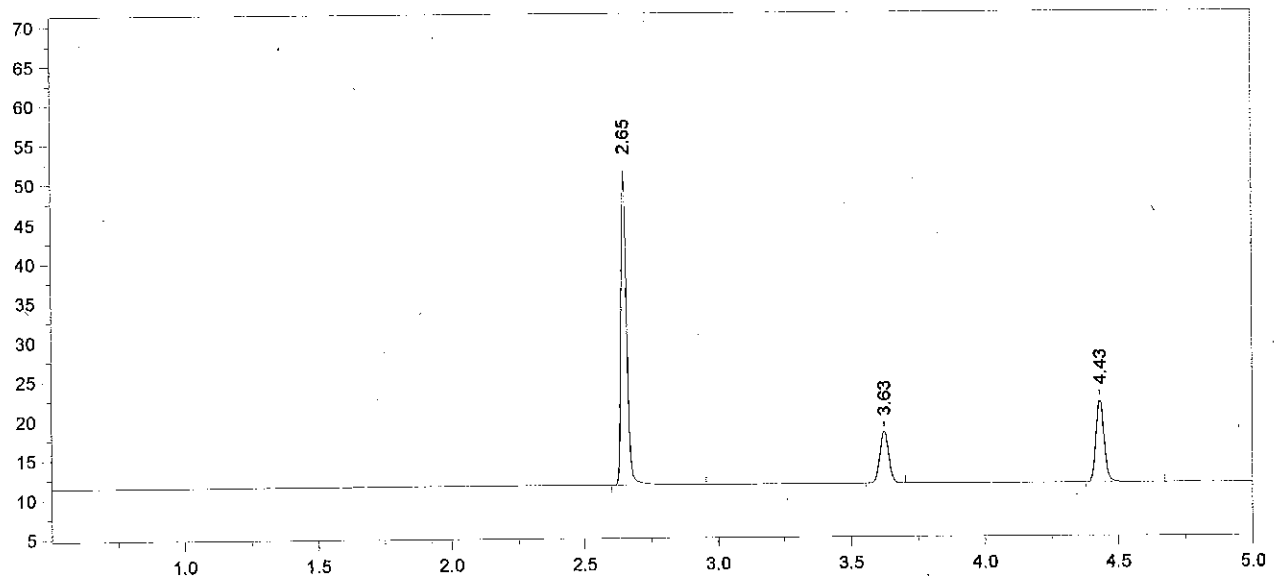
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 8:23:26 PM
Bound File Name = SIM07182013.0015.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 8:23:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	525989	0.4907	0.4005
5	3.63	t-Butanol	129277	0.9679	0.7900
6	4.44	n-Propanol	203057	1.0000	0.8162

13-14-400 51 RLM

Chrom Perfect Chromatogram Report

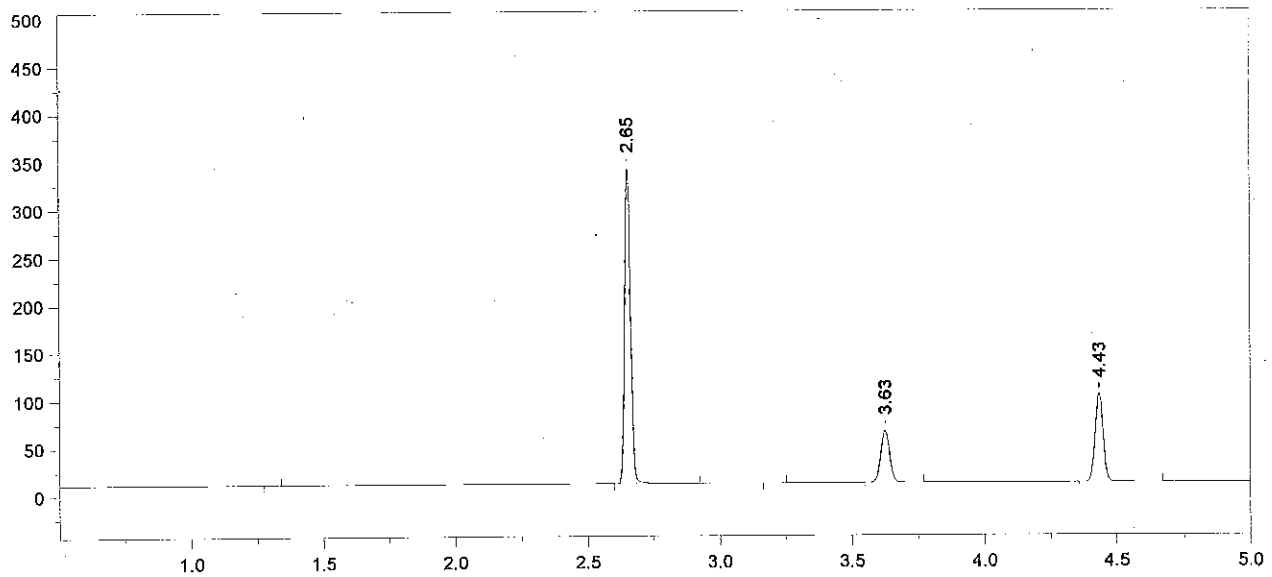


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 8:41:11 PM
Bound File Name = SIM07182013.0016.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 8:41:07 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	60151	0.5062	0.4132
3	3.63	t-Butanol	15146	1.0230	0.8350
4	4.43	n-Propanol	22510	1.0000	0.8162

13-14-400 52 RLM



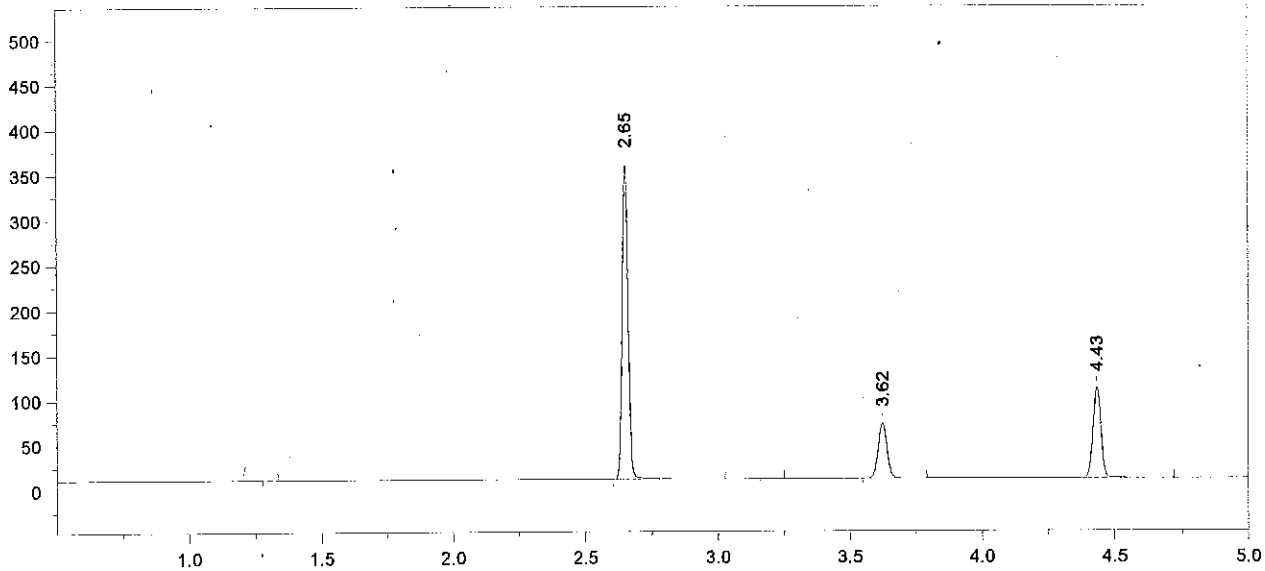
Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 8:55:35 PM
Bound File Name = SIM07182013.0017.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 8:55:25 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	509504	0.4925	0.4020
5	3.63	t-Butanol	125512	0.9737	0.7947
6	4.43	n-Propanol	195974	1.0000	0.8162

13-14-400 53 RLM

Chrom Perfect Chromatogram Report

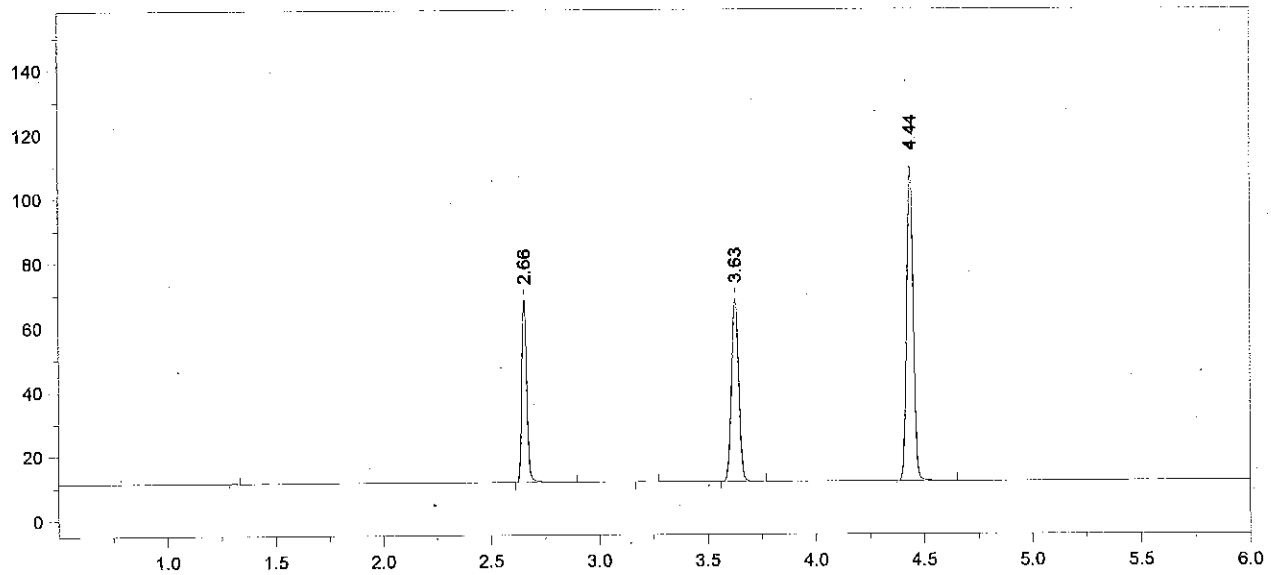


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 9:12:40 PM
Bound File Name = SIM07182013.0018.RAW
Sample Name = RLM 0.4
Date Taken = 7/18/2013 9:12:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	538859	0.4808	0.3924
5	3.62	t-Butanol	142168	1.0181	0.8310
6	4.43	n-Propanol	212299	1.0000	0.8162

13-14-400 54 RLM



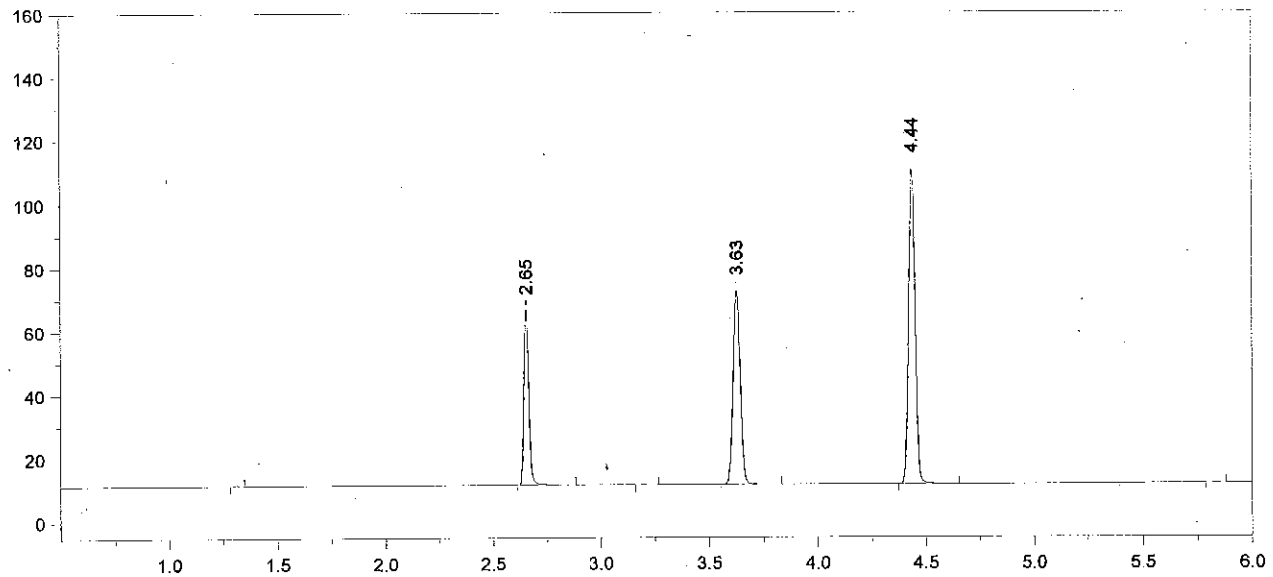
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 9:26:29 PM
Bound File Name = SIM07182013.0019.RAW
Sample Name = CCS
Date Taken = 7/18/2013 9:26:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	89697	0.0819 *
5	3.63	t-Butanol	132305	0.9699
6	4.44	n-Propanol	207393	1.0000

13-14-400 55 RLm

Chrom Perfect Chromatogram Report



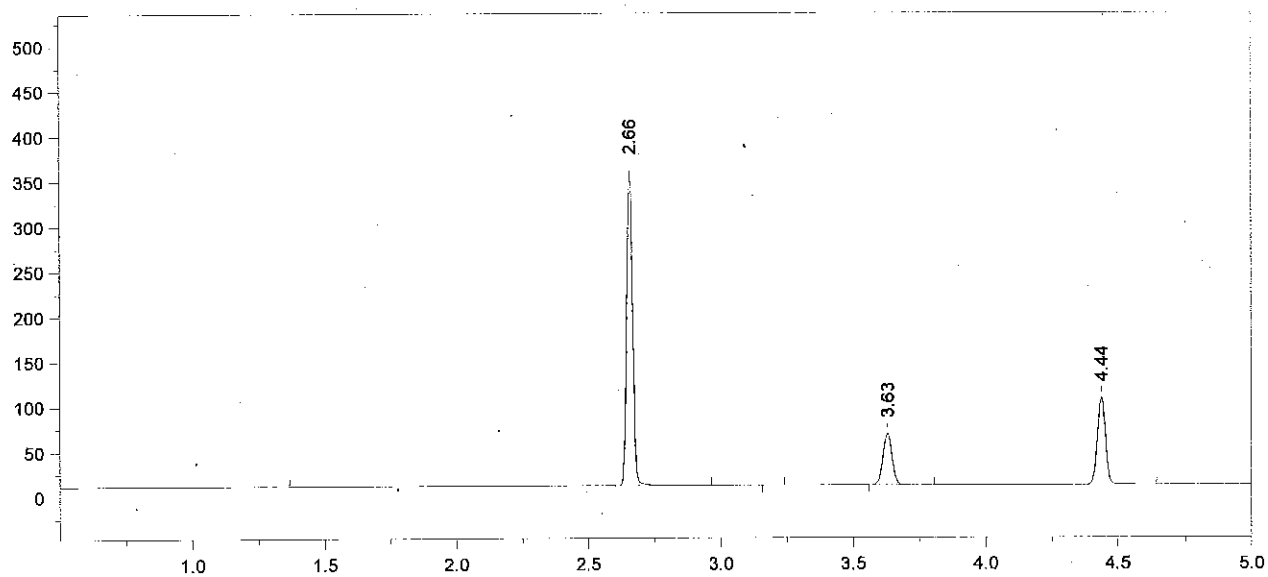
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 9:44:04 PM
Bound File Name = SIM07182013.0020.RAW
Sample Name = CCS
Date Taken = 7/18/2013 9:43:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	86810	0.0784 *
5	3.63	t-Butanol	141346	1.0251
6	4.44	n-Propanol	209637	1.0000

Avg #19 + #20 = 0.080
RZM 7/19/13

13-14-400 56 RZM

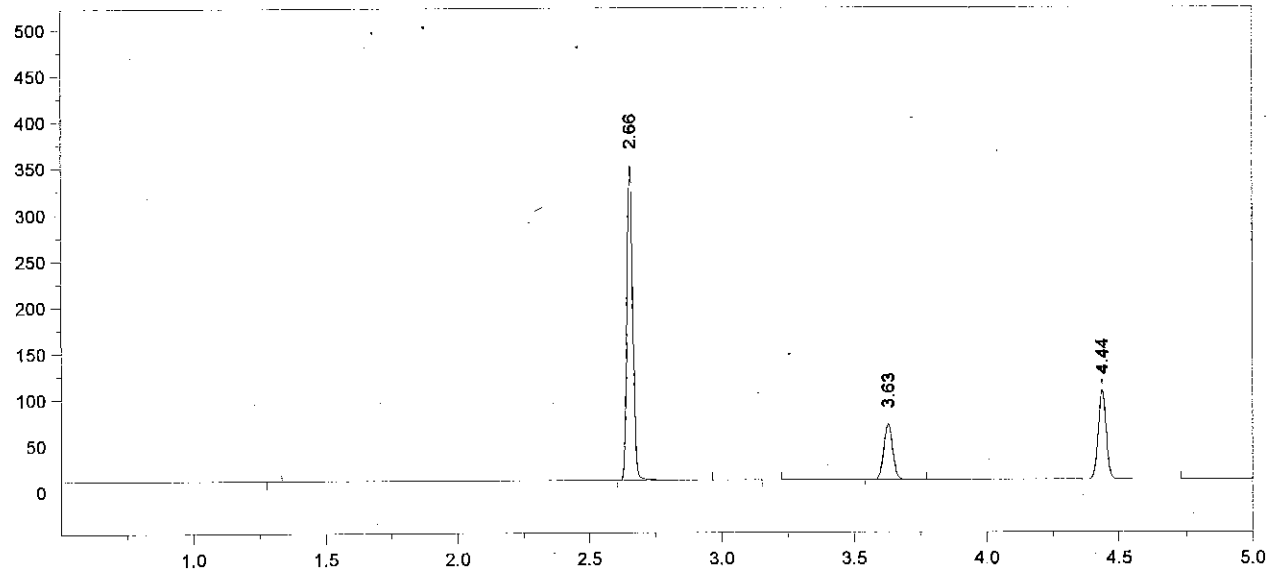


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 9:57:52 PM
Bound File Name = SIM07182013.0021.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 9:57:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	543916	0.4980	0.4065
5	3.63	t-Butanol	131311	0.9650	0.7876
6	4.44	n-Propanol	206887	1.0000	0.8162

13-14-400 57 RLM

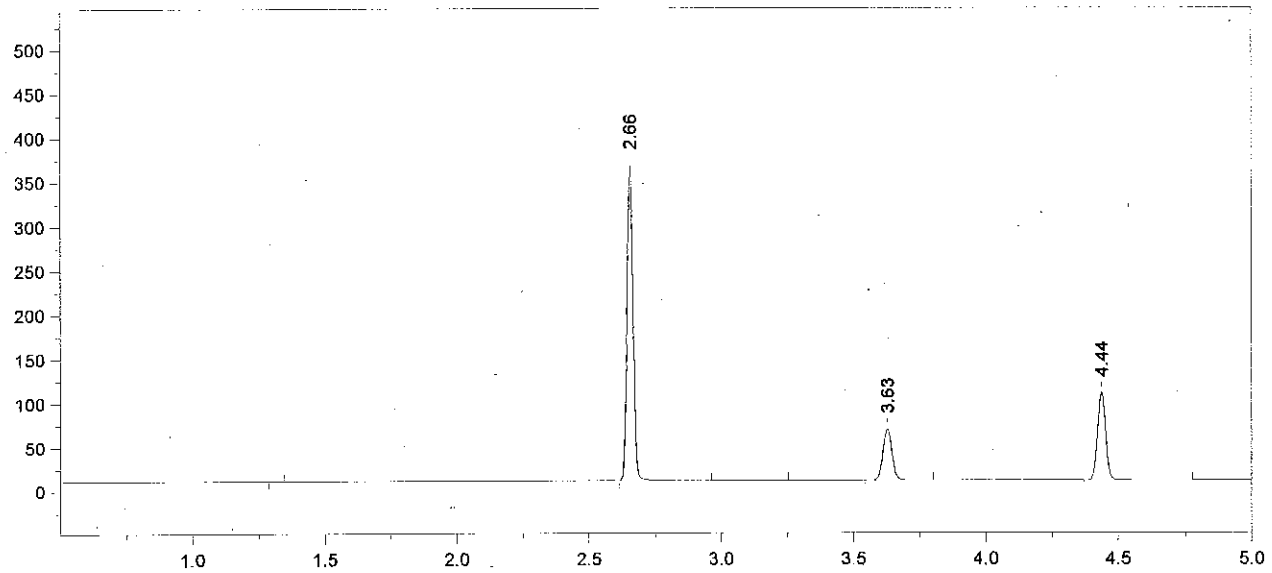


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 10:15:29 PM
Bound File Name = SIM07182013.0022.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 10:15:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	524957	0.4856	0.3963
5	3.63	t-Butanol	138622	1.0291	0.8399
6	4.44	n-Propanol	204799	1.0000	0.8162

13-14-400 58 RLM

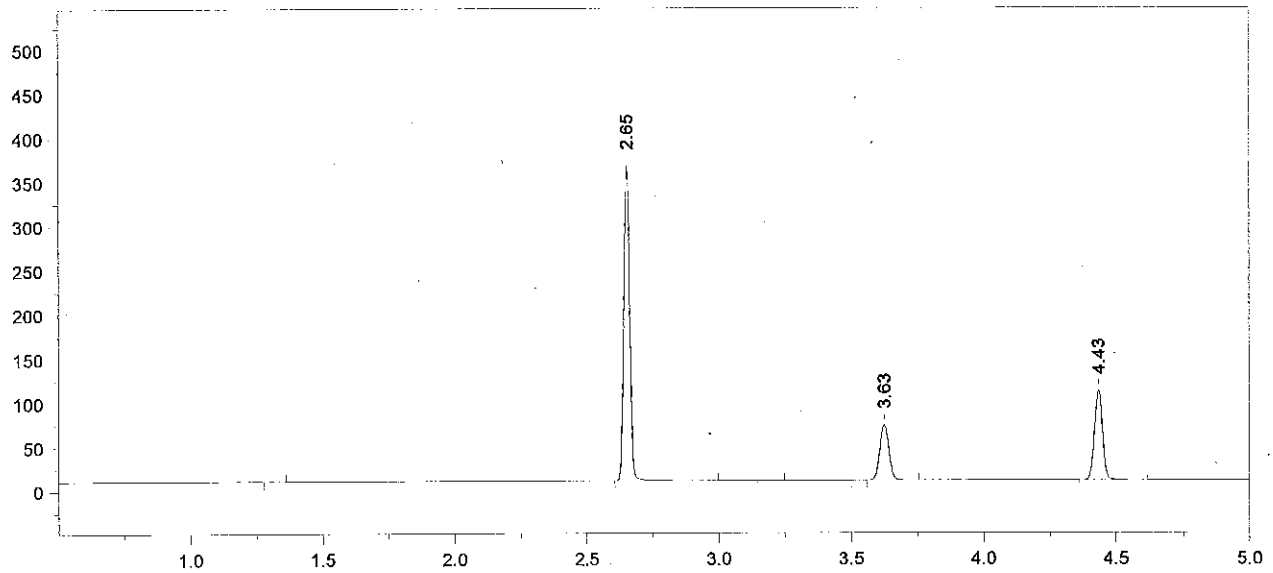


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 10:29:26 PM
Bound File Name = SIM07182013.0023.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 10:29:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	550185	0.4956	0.4045
5	3.63	t-Butanol	133389	0.9643	0.7870
6	4.44	n-Propanol	210313	1.0000	0.8162

13-14-400 59 RLM

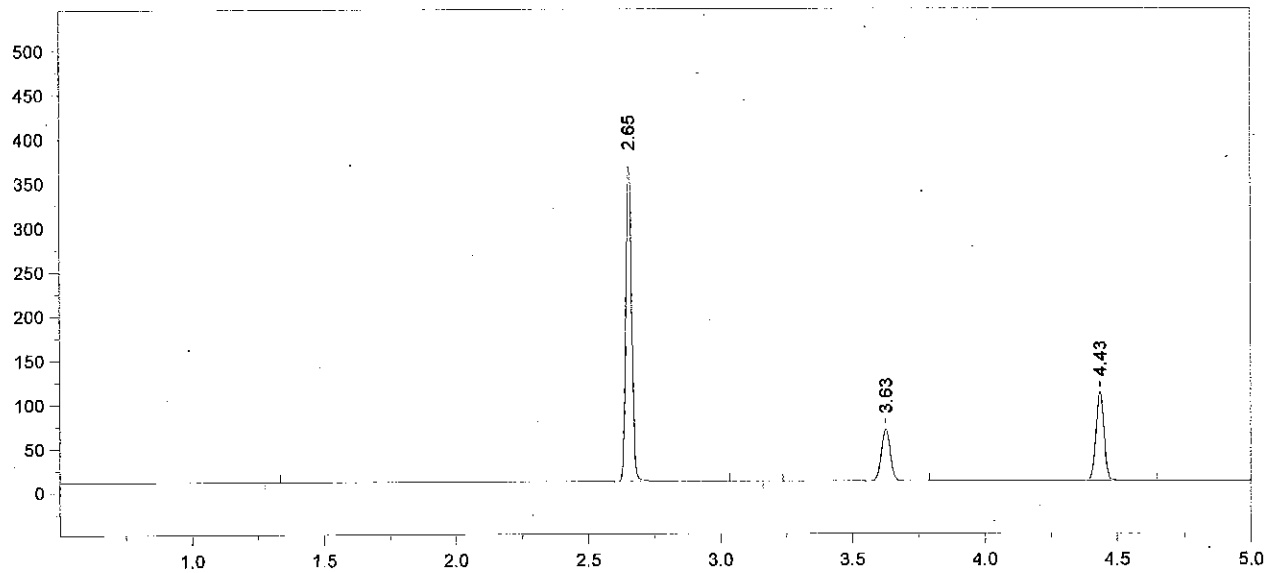


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 10:46:56 PM
Bound File Name = SIM07182013.0024.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 10:46:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	551269	0.4839	0.3949
5	3.63	t-Butanol	145716	1.0265	0.8378
6	4.43	n-Propanol	215822	1.0000	0.8162

13-14-400 60 RZM

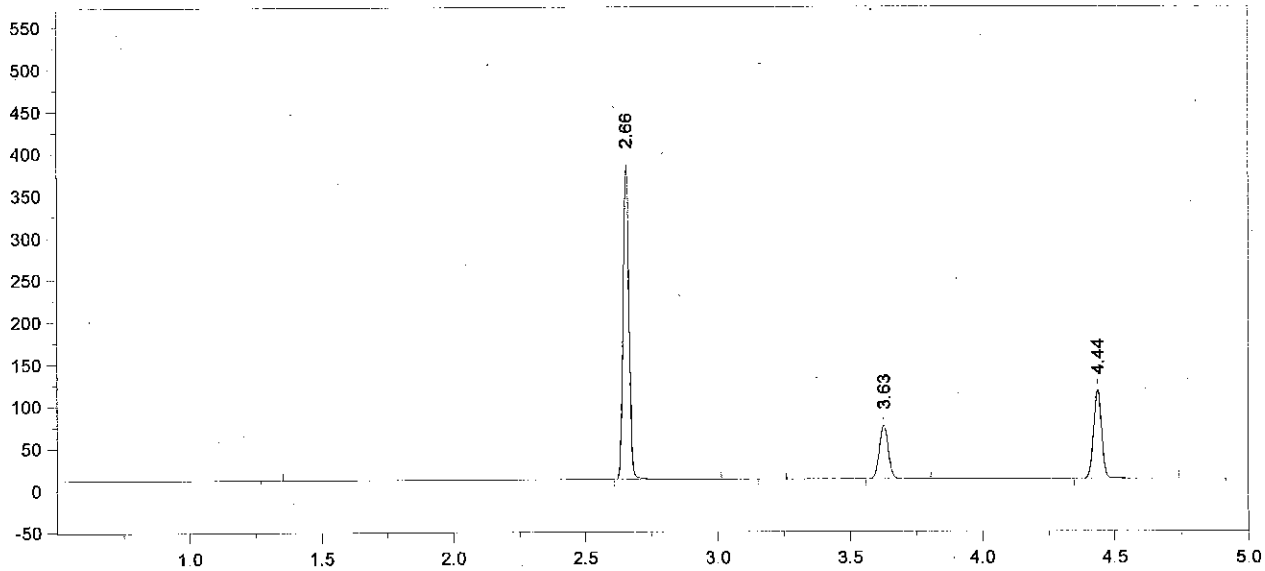


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 11:00:49 PM
Bound File Name = SIM07182013.0025.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 11:00:40 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	557250	0.4958	0.4047
5	3.63	t-Butanol	135154	0.9651	0.7877
6	4.43	n-Propanol	212909	1.0000	0.8162

13-14-400 61 RLM

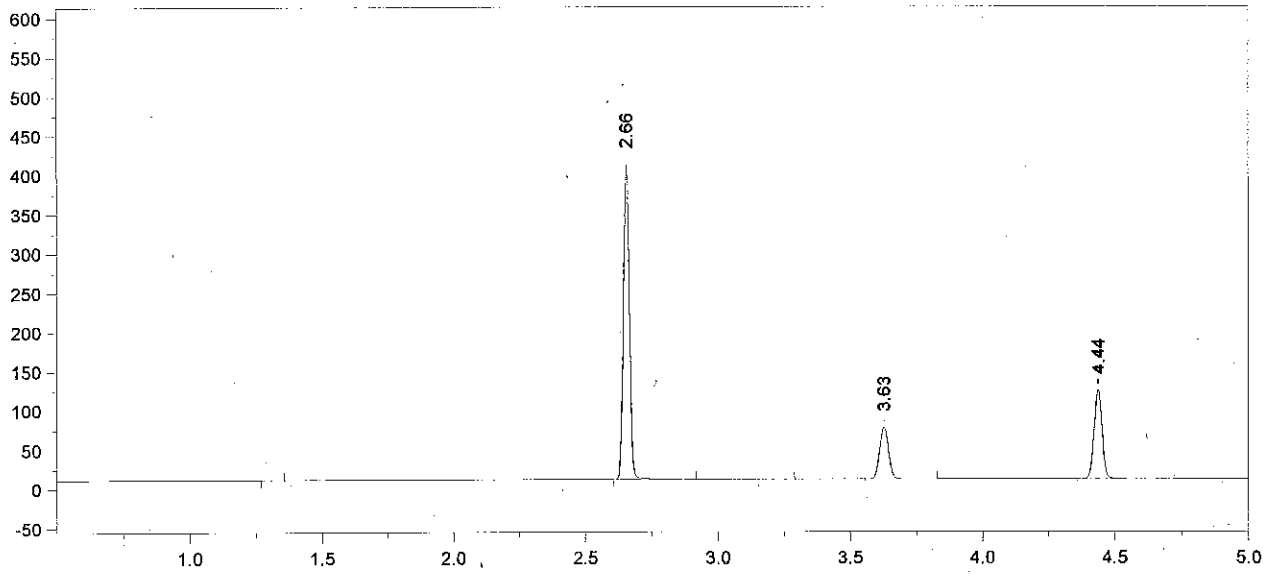


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 11:18:20 PM
Bound File Name = SIM07182013.0026.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 11:18:11 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	576975	0.4893	0.3994
5	3.63	t-Butanol	147189	1.0019	0.8177
6	4.44	n-Propanol	223364	1.0000	0.8162

13-14-400 62 [illegible]

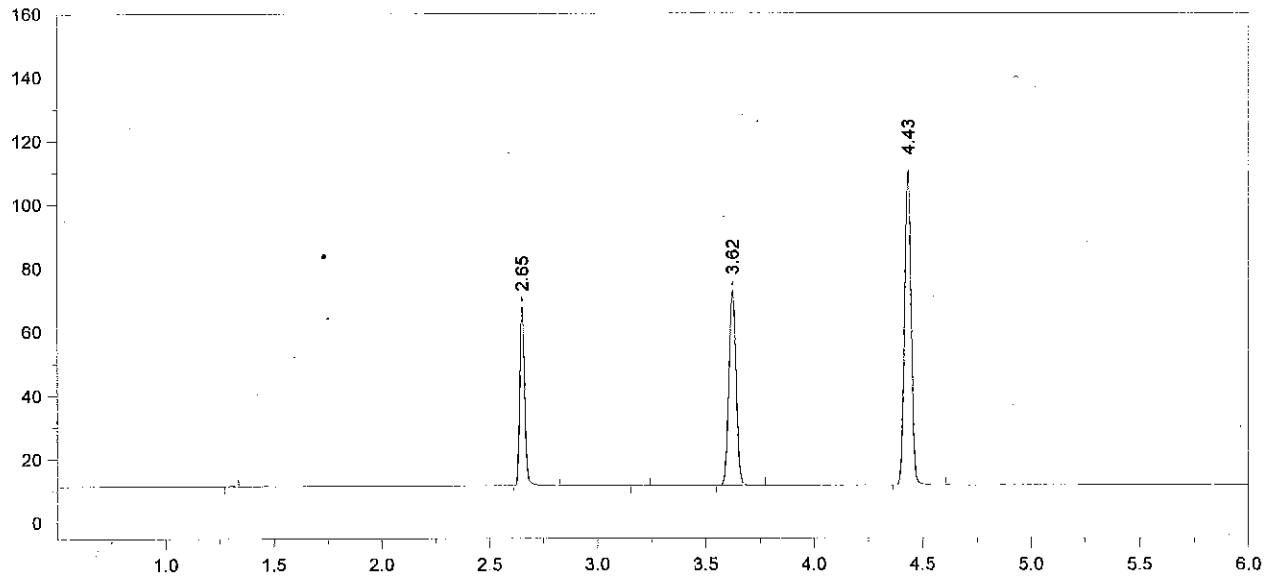


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/18/2013
Today's Time = 11:33:08 PM
Bound File Name = SIM07182013.0027.RAW
Sample Name = ALB 0.4
Date Taken = 7/18/2013 11:33:02 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	620525	0.4865	0.3971
5	3.63	t-Butanol	152758	0.9612	0.7845
6	4.44	n-Propanol	241627	1.0000	0.8162

13-14-400 63 RZM



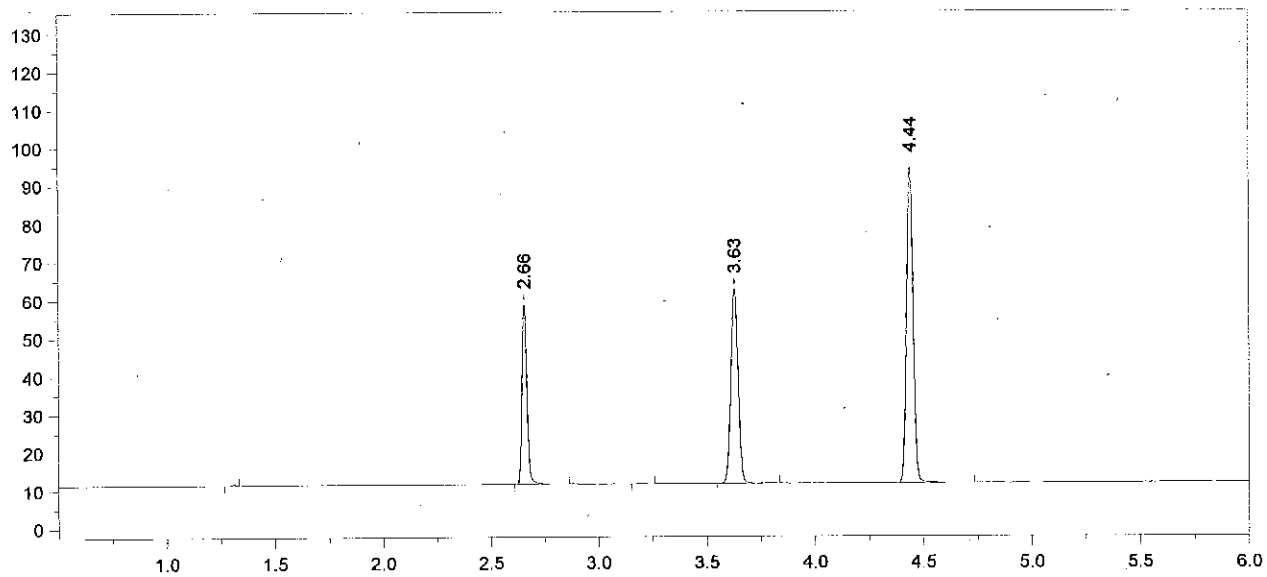
Format File Name = AlcoholVFL.FMT

Today's Date = 7/18/2013
Today's Time = 11:49:45 PM
Bound File Name = SIM07182013.0028.RAW
Sample Name = CCS
Date Taken = 7/18/2013 11:49:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	87279	0.0789 *
5	3.62	t-Butanol	141716	1.0282
6	4.43	n-Propanol	209560	1.0000

13-14-400 64 RZm

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 7/19/2013
Today's Time = 12:03:30 AM
Bound File Name = SIM07182013.0029.RAW
Sample Name = CCS
Date Taken = 7/19/2013 12:03:23 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07182013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	74157	0.0792 *
5	3.63	t-Butanol	118398	1.0146
6	4.44	n-Propanol	177423	1.0000

Avg #28 + #29 = 0.079
RLM 7/19/13

13-14-400 65 RLM