VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 8/9/2013, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-15-100 and an expiration date of 8/9/2014.

On 8/13/2013 and 8/14/2013, the solution was analyzed against calibration VFL08132013 and VFL08142013. 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 0.099 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Thursday, August 15, 2013.

Rebecca Mead

Rebecca Mead

0.1 External Standard Solution 20L
Lot # 13-15-100
Prepared 08/09/2013 by RLM
Exp 08/09/2014

RLM CAL VFL08132013
RLM/ALB Vials
Analyzed on 08/13/2013

0.0977 rlm
0.0995
0.0978
0.1007
0.0985
0.1002
0.0967
0.1007 alb
0.0965
0.1020
0.0988
0.1017
0.0987
0.1011

Ave. = 0.0993
Std Dev. = 0.0018
Range = 0.0965-0.1020

RLM CAL VFL08142013
RLM/ALB Vials
Analyzed on 08/14/2013

0.0967 rlm
0.0996
0.0970
0.0997
0.0978
0.1000
0.0983
0.1002 alb
0.0996
0.0990
0.0973
0.0993
0.0976
0.0984

Ave. = 0.0986
Std Dev. = 0.0012
Range = 0.0967-0.1002

Total Values from Both Runs

Average	Mean
0.0977	0.0965
0.0995	0.0967
0.0978	
0.1007	0.0970
0.0985	0.0973
0.1002	0.0976
0.0967	0.0977
0.1007	0.0978
0.0965	
0.1020	0.0983
0.0988	0.0984
0.1017	0.0985
0.0987	0.0987
0.1011	0.0988
0.0967	0.0990
0.0996	0.0993
0.0970	0.0995
0.0997	0.0996
0.0978	
0.1000	0.0997
0.0983	0.1000
0.1002	0.1002
0.0996	
0.0990	0.1007
0.0973	
0.0993	0.1011
0.0976	0.1017
0.0984	0.1020

Ave. =	0.0990
Avg Std Dev. =	0.0015
Mean =	0.0990
Mean Std Dev. =	0.0015
Range =	0.0965-0.1020
RPD =	5.55%

8/19/2013

Headspace Alcohol Analysis Standards Coversheet

Analyst: BLM Date: 8/13/13

8/19/2013

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	1.92		
		Methanol	2.02		
		Ethanol	2.66		
		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		0.203	(Y) N	
7	Standard E		0.401	(Y) N	
~~8~~ 10 RKM 8/19/13	Aqueous QC		0.0773	(Y) N	Avg = 0.078 (97% recovery) ✓
~~9~~ 11 RKM 8/19/13	Aqueous QC		0.0792	(Y) N	

13-15-100 2 RKM

File Name: C:\Methods\VFL08132013.CAL
Version: 7

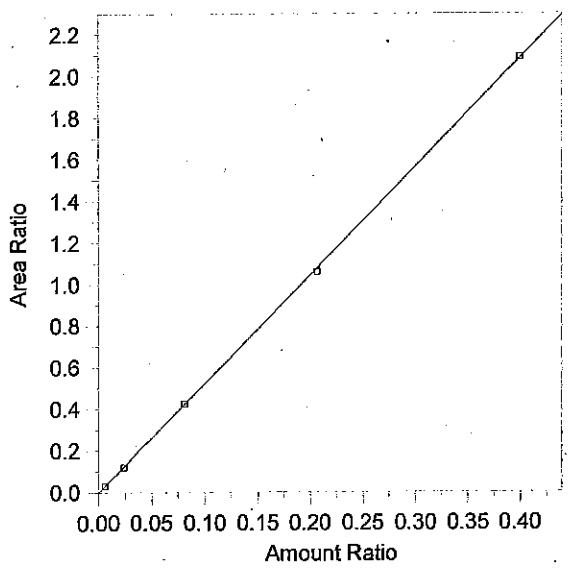
Creator:
Description:
Reason for change:

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:	2.658 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 = 5.208082 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998911
Average error:	1.762%
Average CF:	5.218222
RSD:	2.536%

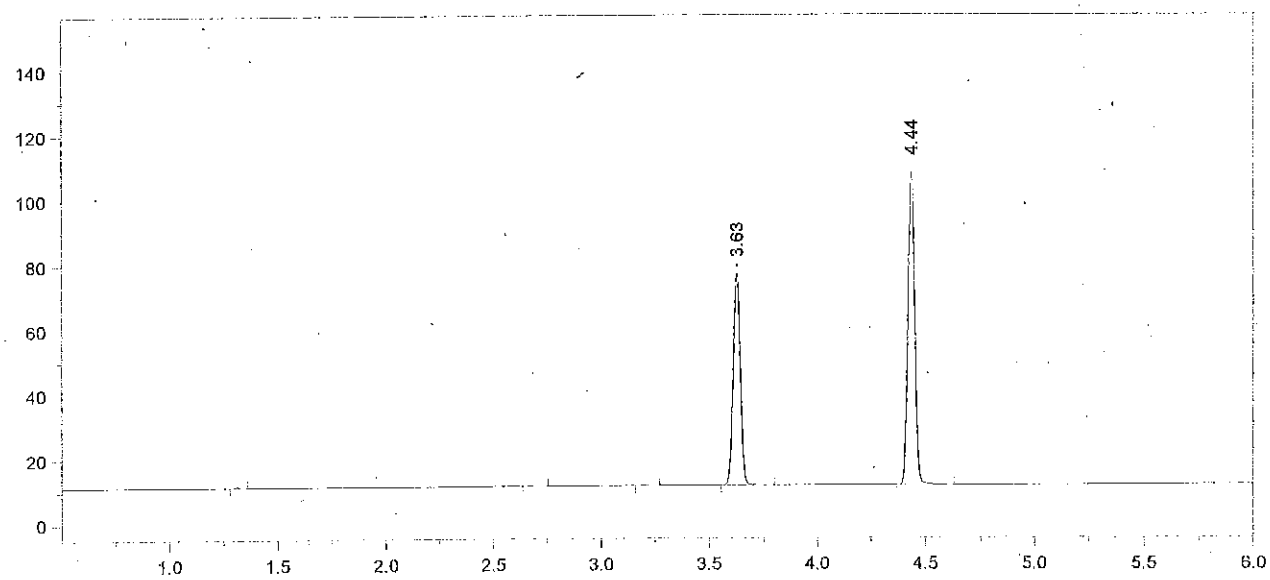
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0059	6278.247	1064110	4.191	0.0059	3.201544E-02	C:\Alcohol Data\VFL08132013\VFL08132013.0003.BND	8/13/2013 3:49:44 PM
3	0.0237	24032.81	1014043	-2.474	0.0237	0.1203775	C:\Alcohol Data\VFL08132013\VFL08132013.0004.BND	8/13/2013 4:07:13 PM
4	0.0812	87865.05	1082082	0.322	0.0812	0.4242575	C:\Alcohol Data\VFL08132013\VFL08132013.0005.BND	8/13/2013 4:21:19 PM
5	0.2065	220517.5	1067881	-1.445	0.2065	1.059929	C:\Alcohol Data\VFL08132013\VFL08132013.0006.BND	8/13/2013 4:38:34 PM
6	0.3998	439435.4	1099138	0.380	0.3998	2.090103	C:\Alcohol Data\VFL08132013\VFL08132013.0007.BND	8/13/2013 4:52:27 PM

13-15-100 3 RLM

File Name = C:\Alcohol Data\VFL08132013\VFL08132013.SEQ
Version = 1
File Date = 8/13/2013 2:42:01 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL08132013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL08132013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL08132013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL08132013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL08132013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL08132013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL08132013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL08132013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL08132013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL08132013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL08132013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL08132013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL08132013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL08132013.0014.raw	Blood Alc temp VFL.MET	V13-1729 A1-1 casework samples not included RLM 8/14/13	1.00	1.00
15	VFL08132013.0015.raw	Blood Alc temp VFL.MET	V13-1729 A1-1	1.00	1.00
16	VFL08132013.0016.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
17	VFL08132013.0017.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
18	VFL08132013.0018.raw	simsoln.met	RLM 0.1	1.00	1.00
19	VFL08132013.0019.raw	simsoln.met	RLM 0.1	1.00	1.00
20	VFL08132013.0020.raw	simsoln.met	RLM 0.1	1.00	1.00
21	VFL08132013.0021.raw	simsoln.met	RLM 0.1	1.00	1.00
22	VFL08132013.0022.raw	simsoln.met	RLM 0.1	1.00	1.00
23	VFL08132013.0023.raw	simsoln.met	RLM 0.1	1.00	1.00
24	VFL08132013.0024.raw	simsoln.met	RLM 0.1	1.00	1.00
25	VFL08132013.0025.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
26	VFL08132013.0026.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
27	VFL08132013.0027.raw	simsoln.met	ALB 0.1	1.00	1.00
28	VFL08132013.0028.raw	simsoln.met	ALB 0.1	1.00	1.00
29	VFL08132013.0029.raw	simsoln.met	ALB 0.1	1.00	1.00
30	VFL08132013.0030.raw	simsoln.met	ALB 0.1	1.00	1.00
31	VFL08132013.0031.raw	simsoln.met	ALB 0.1	1.00	1.00
32	VFL08132013.0032.raw	simsoln.met	ALB 0.1	1.00	1.00
33	VFL08132013.0033.raw	simsoln.met	ALB 0.1	1.00	1.00
34	VFL08132013.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL08132013.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-15-100 4 RLM

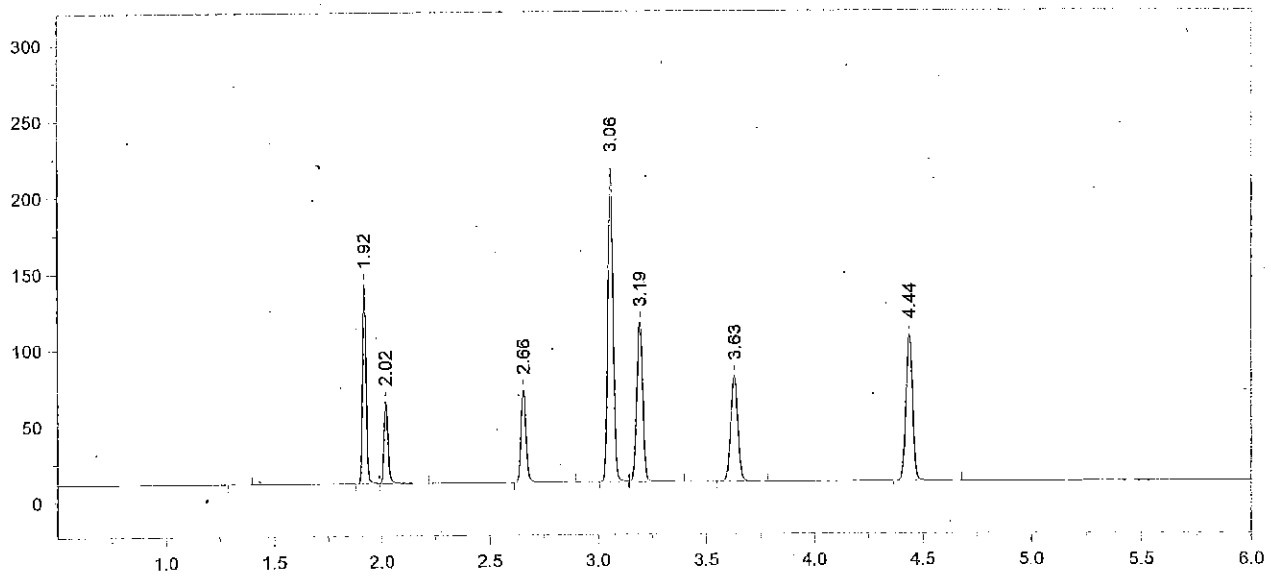


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:50:58 AM
Bound File Name = VFL08132013.0001.RAW
Sample Name = Blank
Date Taken = 8/13/2013 3:18:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	3.63	t-Butanol	151862	0.9686
6	4.44	n-Propanol	204854	1.0000

13-15-100 5 RZM

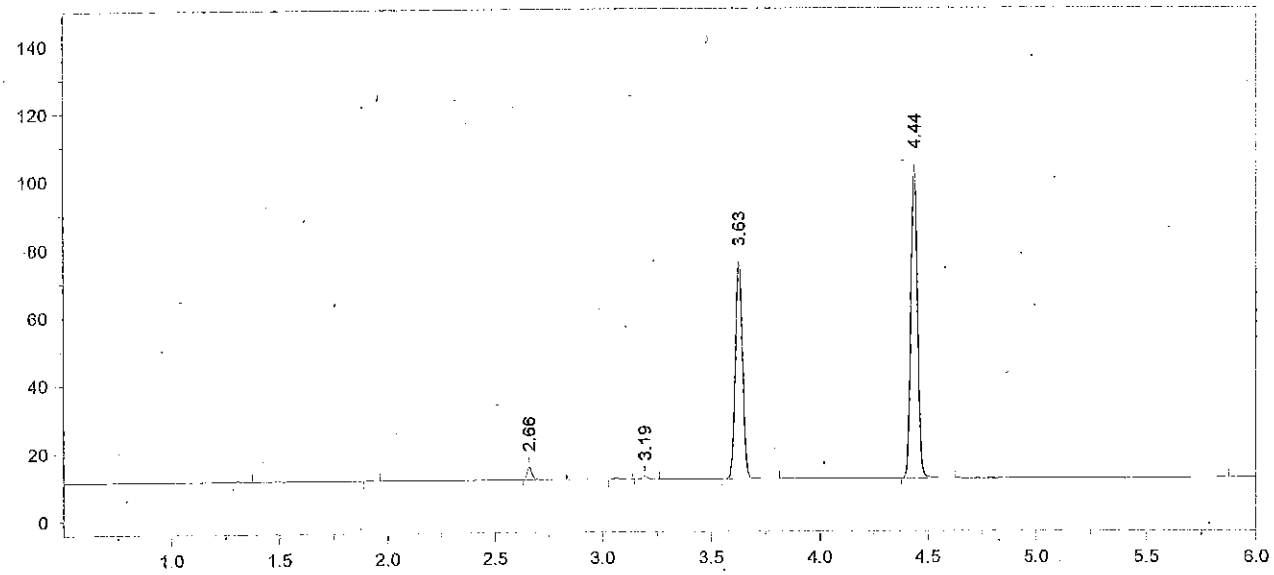


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:51:03 AM
Bound File Name = VFL08132013.0002.RAW
Sample Name = TMX
Date Taken = 8/13/2013 3:35:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.92	Acetaldehyde	153505	0.0520
4	2.02	Methanol	68840	0.1370
5	2.66	Ethanol	95668	0.0898
6	3.06	Acetone	354082	0.0940
7	3.19	Isopropanol	197298	0.0850
8	3.63	t-Butanol	160776	1.0265
9	4.44	n-Propanol	204653	1.0000

13-15-100 6

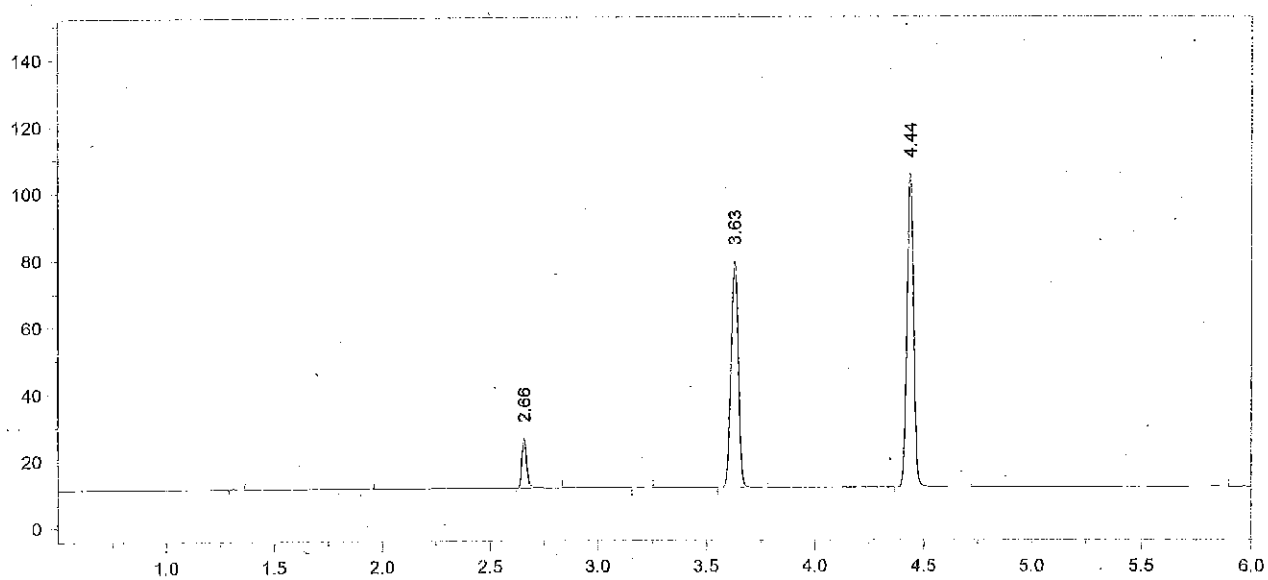


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:51:08 AM
Bound File Name = VFL08132013.0003.RAW
Sample Name = STD A
Date Taken = 8/13/2013 3:49:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	06278	0.0061 *
6	3.19	Isopropanol	01592	<0.004
7	3.63	t-Butanol	148604	0.9902
8	4.44	n-Propanol	196101	1.0000

13-15-100 7 RKM

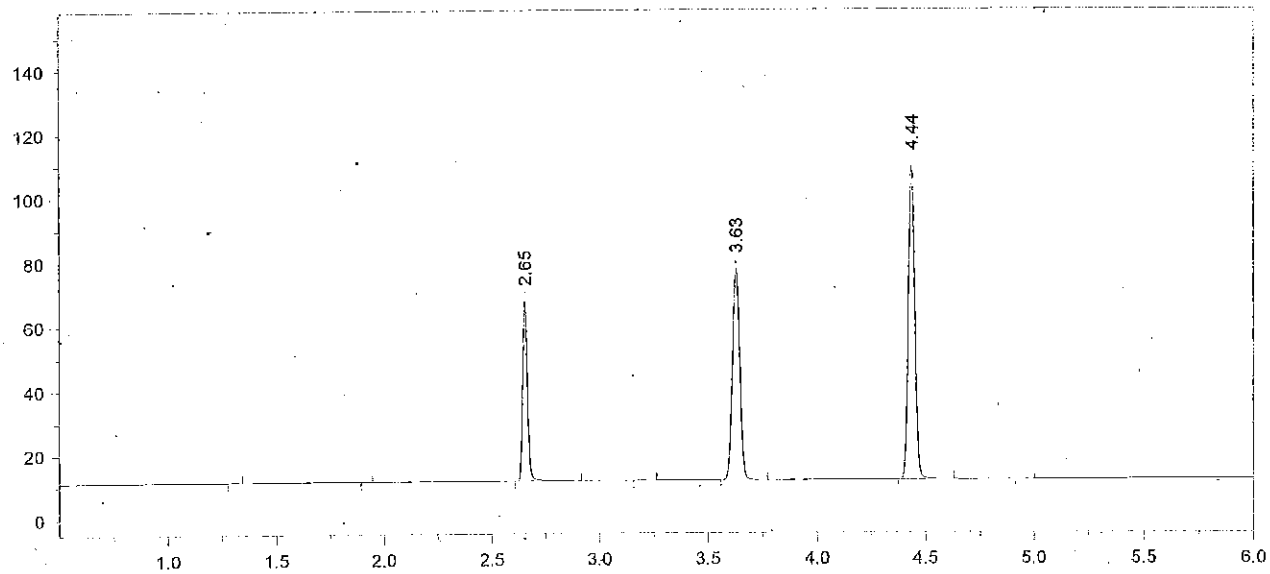


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:51:14 AM
Bound File Name = VFL08132013.0004.RAW
Sample Name = STD B
Date Taken = 8/13/2013 4:07:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	24033	0.0231 *
6	3.63	t-Butanol	157044	1.0278
7	4.44	n-Propanol	199645	1.0000

13-15-100 8 RLM

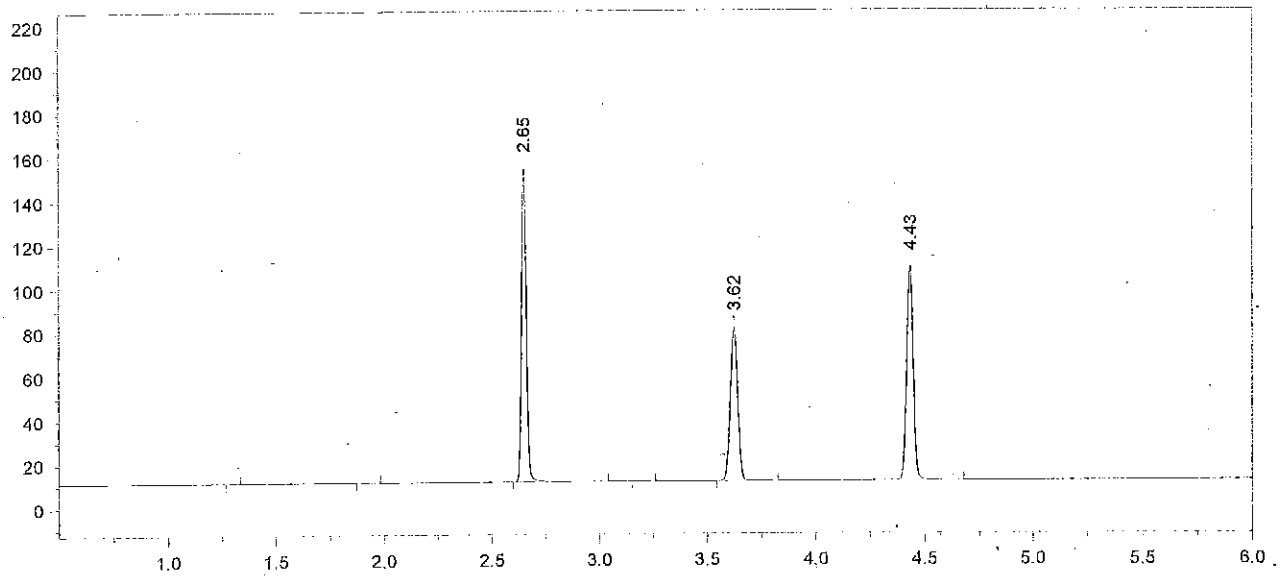


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:51:20 AM
Bound File Name = VFL08132013.0005.RAW
Sample Name = STD C
Date Taken = 8/13/2013 4:21:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	87865	0.0815
6	3.63	t-Butanol	153022	0.9654
7	4.44	n-Propanol	207103	1.0000

13-15-100 9

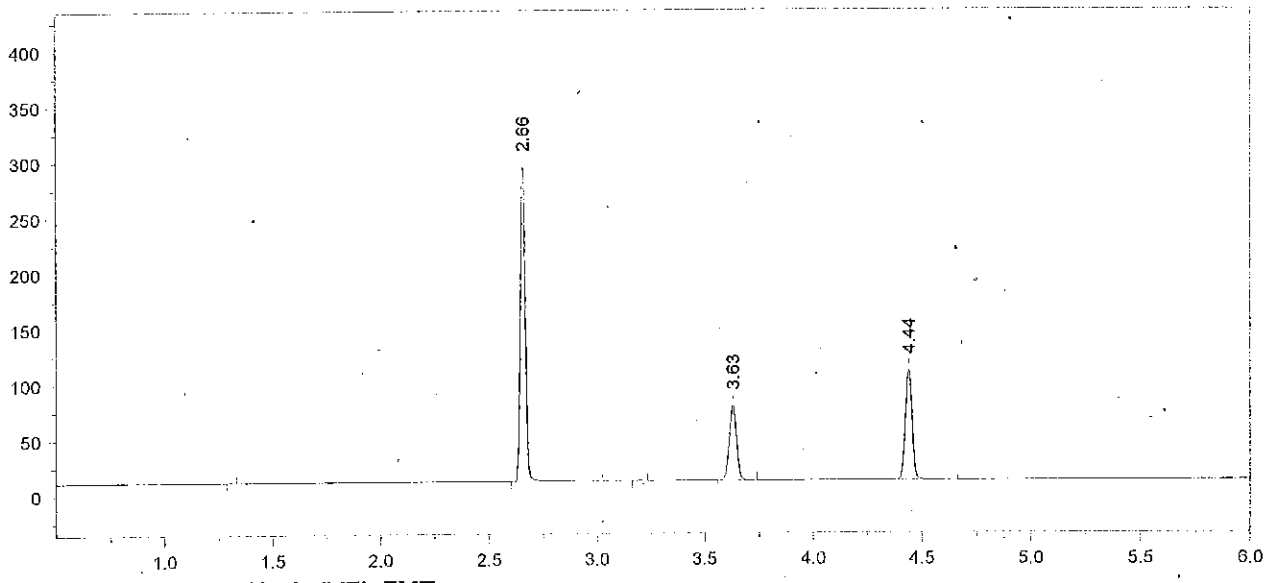


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:51:25 AM
Bound File Name = VFL08132013.0006.RAW
Sample Name = STD D
Date Taken = 8/13/2013 4:38:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	220518	0.2035 *
6	3.62	t-Butanol	163141	1.0246
7	4.43	n-Propanol	208049	1.0000

13-15-100 10 RLM

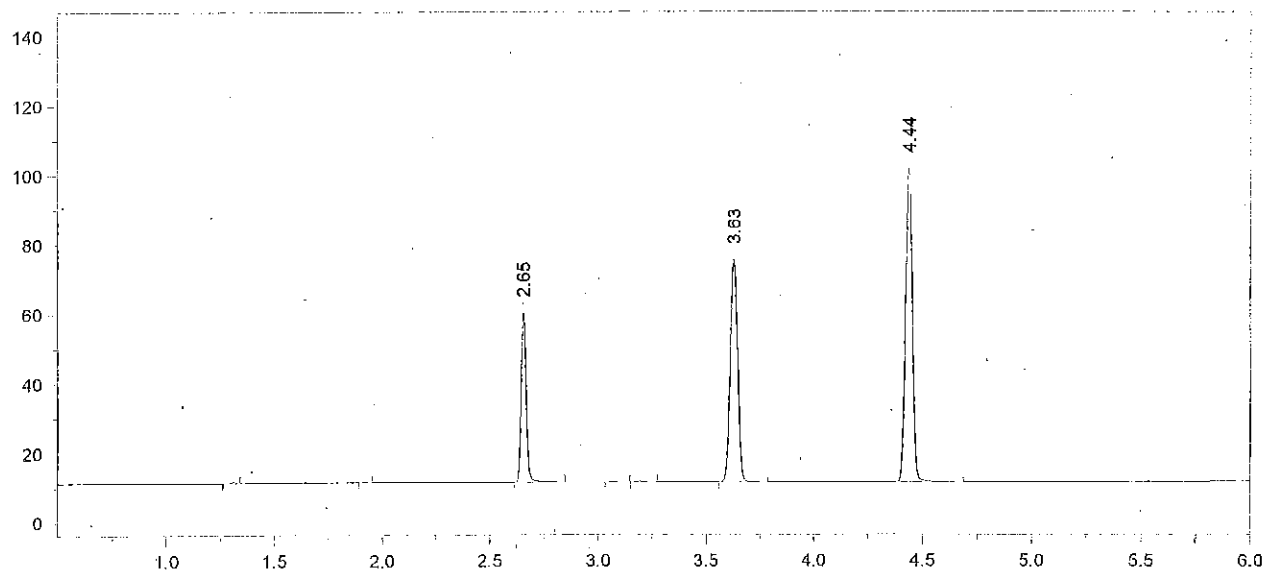


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:51:31 AM
Bound File Name = VFL08132013.0007.RAW
Sample Name = STD E
Date Taken = 8/13/2013 4:52:23 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	439435	0.4013 *
5	3.63	t-Butanol	155365	0.9656
6	4.44	n-Propanol	210246	1.0000

13-15-100 11 RZ

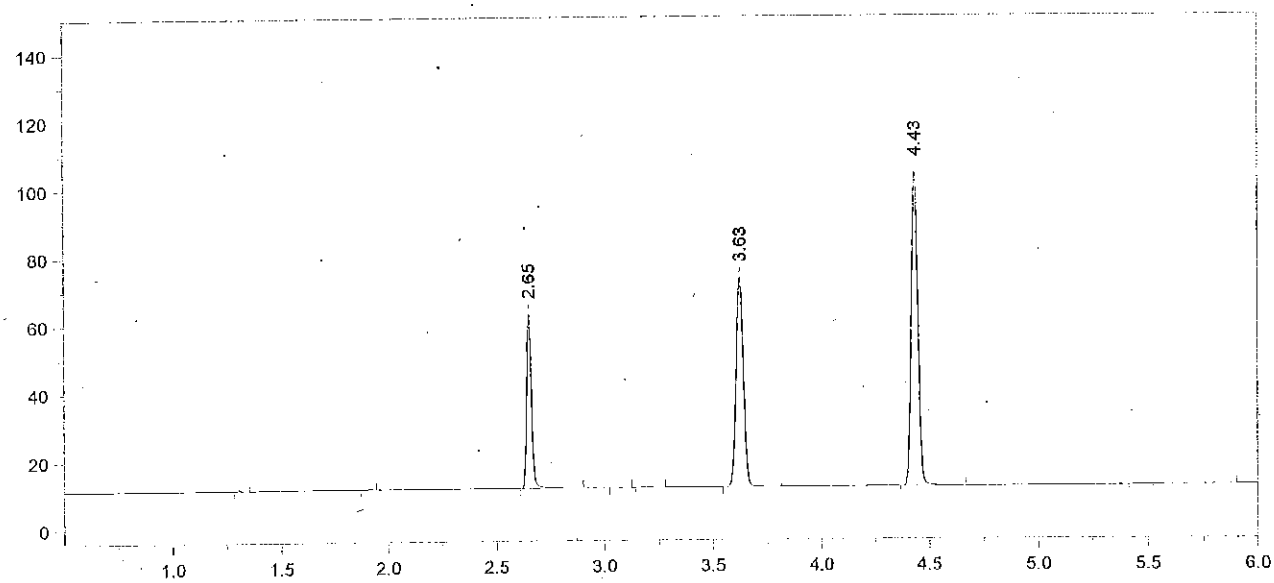


Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 5:10:04 PM
Bound File Name = VFL08132013.0008.RAW
Sample Name = WB
Date Taken = 8/13/2013 5:09:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	77020	0.0770*
7	3.63	t-Butanol	148810	1.0129
8	4.44	n-Propanol	191969	1.0000

13-15-100 12 RKM



Format File Name = AlcoholVFL.FMT

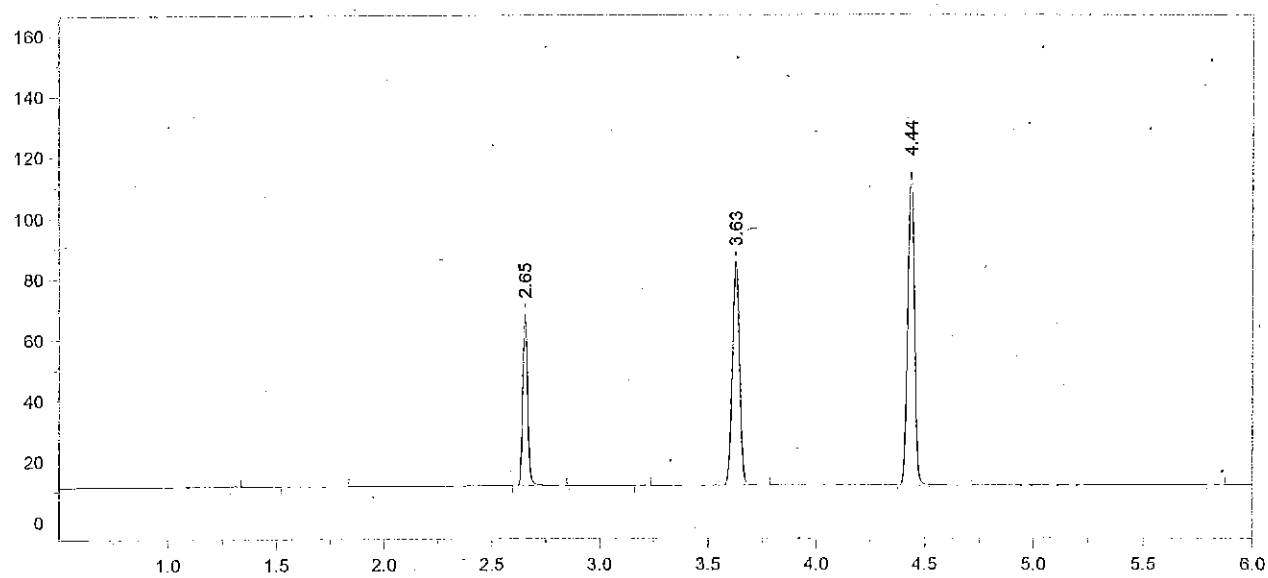
Today's Date = 8/13/2013
Today's Time = 5:23:55 PM
Bound File Name = VFL08132013.0009.RAW
Sample Name = WB
Date Taken = 8/13/2013 5:23:47 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	80931	0.0786
7	3.63	t-Butanol	142591	0.9424
8	4.43	n-Propanol	197695	1.0000

Avg #8 & #9 = 0.078
RZM 8/14/13

WB Control: Cliniqa Lot # 09111 20A
Target value: 0.076
Acceptance range: 0.068 - 0.083
RZM 8/14/13

13-15-100 13 RZM

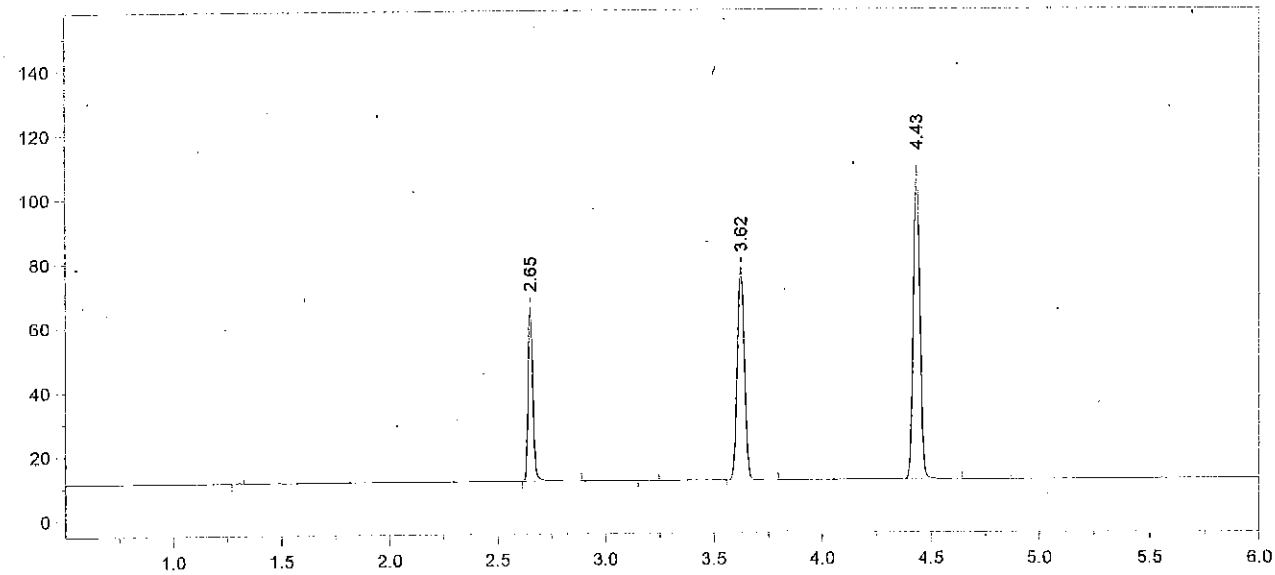


Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 5:39:43 PM
Bound File Name = VFL08132013.0010.RAW
Sample Name = AQ QC
Date Taken = 8/13/2013 5:39:36 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	88441	0.0773 *
6	3.63	t-Butanol	170461	1.0140
7	4.44	n-Propanol	219659	1.0000

13-15-100 14 KLM



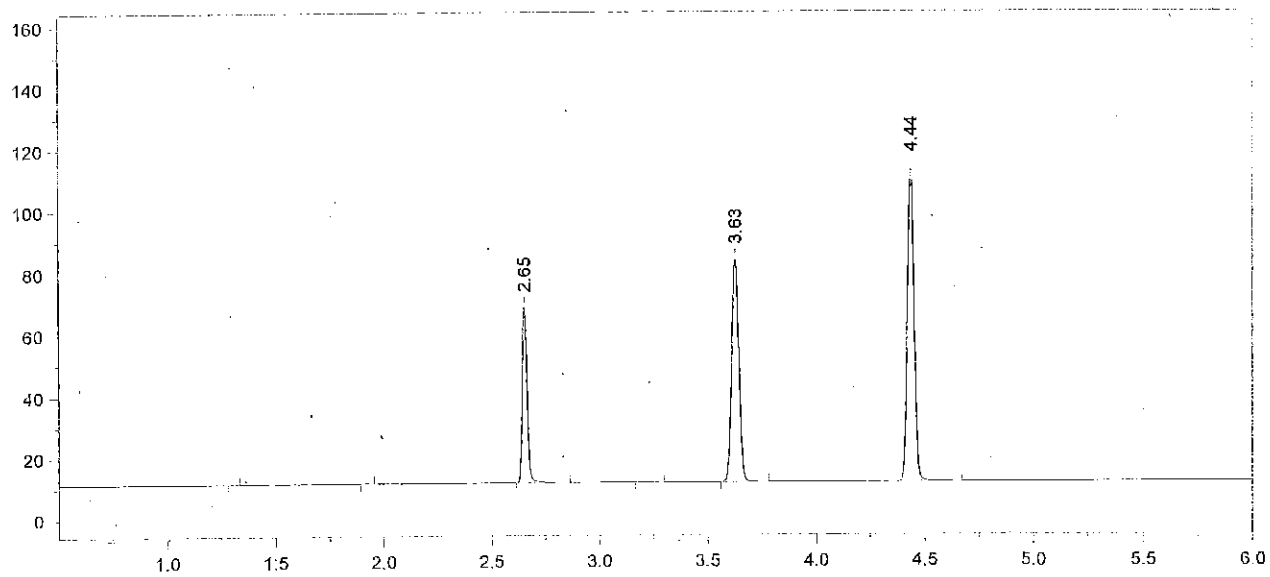
Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 5:55:18 PM
Bound File Name = VFL08132013.0011.RAW
Sample Name = AQ QC
Date Taken = 8/13/2013 5:55:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	85358	0.0792 *
5	3.62	t-Butanol	153848	0.9718
6	4.43	n-Propanol	206862	1.0000

Avg #10 + #11 = 0.078
RLM 8/14/13

13-15-100 15 RLM

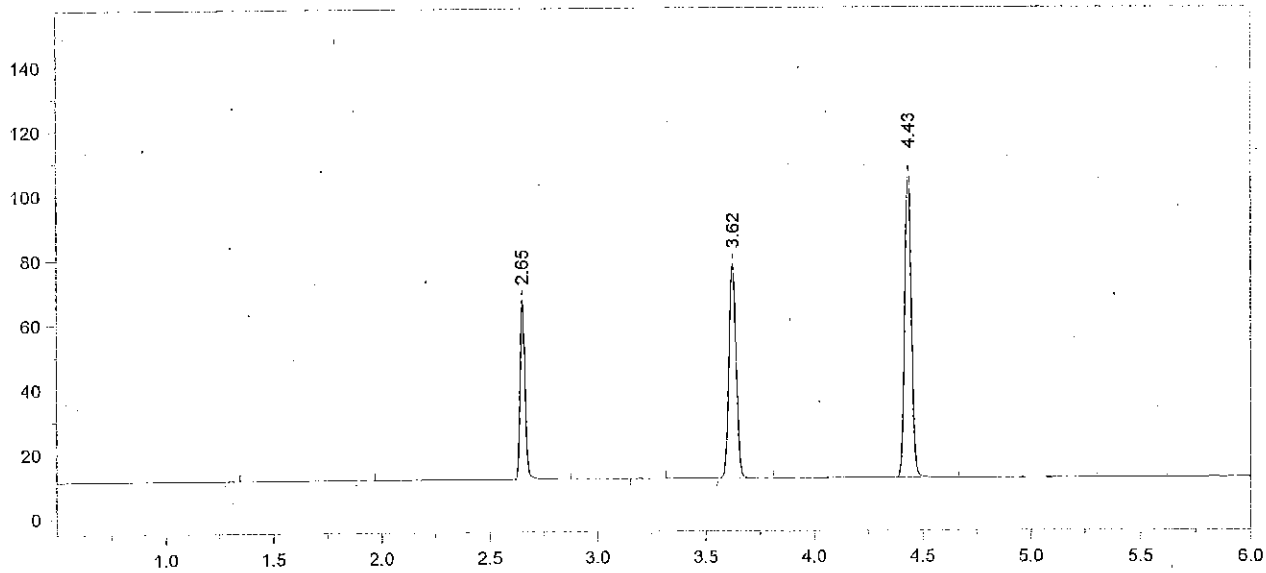


Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 6:11:15 PM
Bound File Name = VFL08132013.0012.RAW
Sample Name = CCS
Date Taken = 8/13/2013 6:11:11 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	89425	0.0793 *
6	3.63	t-Butanol	167510	1.0110
7	4.44	n-Propanol	216489	1.0000

13-15-100 16 RZm



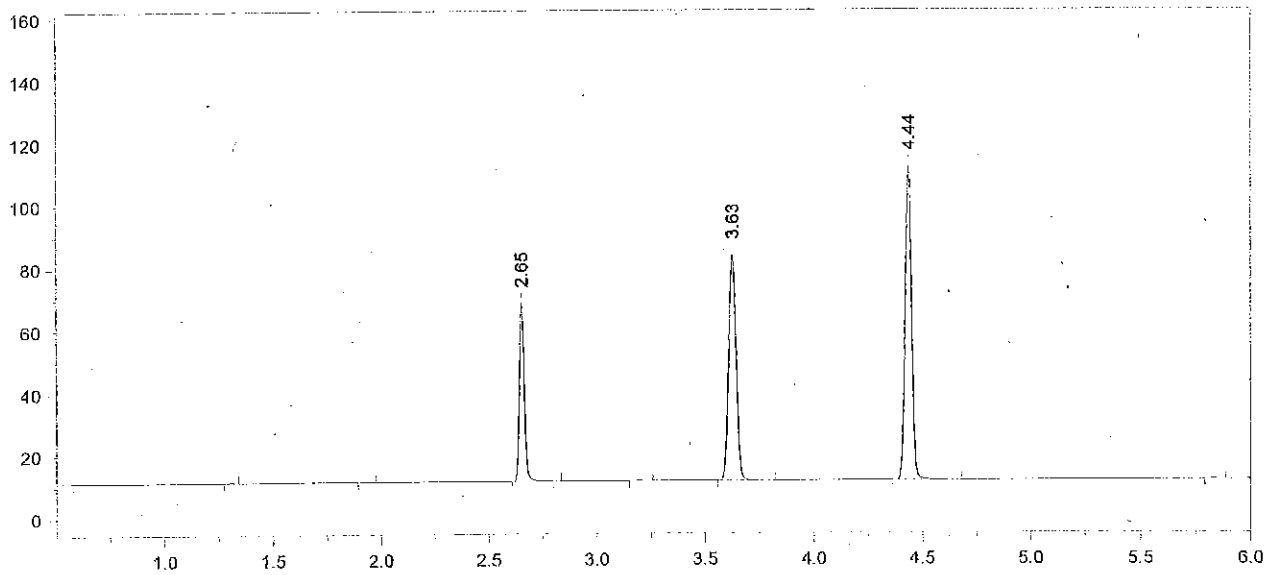
Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 6:25:32 PM
Bound File Name = VFL08132013.0013.RAW
Sample Name = CCS
Date Taken = 8/13/2013 6:25:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	87087	0.0809 *
6	3.62	t-Butanol	154746	0.9781
7	4.43	n-Propanol	206712	1.0000

Avg #12 + #13 = 0.080
RZM 8/14/13

13-15-100 17 RZM

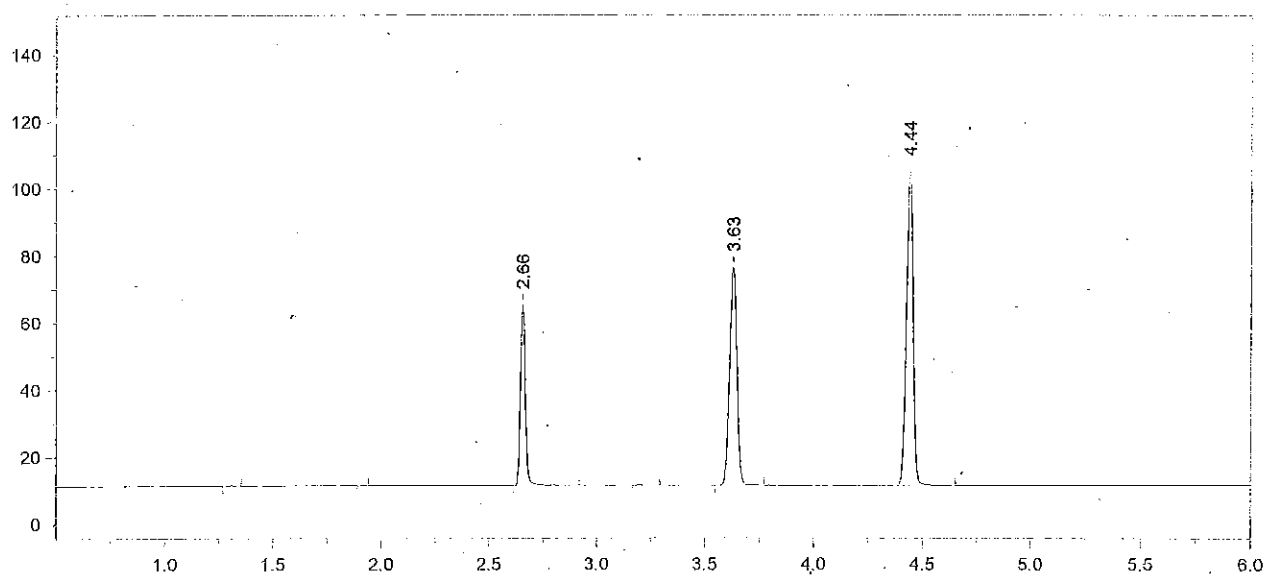


Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 7:14:02 PM
Bound File Name = VFL08132013.0016.RAW
Sample Name = CCS
Date Taken = 8/13/2013 7:13:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	88693	0.0795 *
6	3.63	t-Butanol	166717	1.0175
7	4.44	n-Propanol	214088	1.0000

13-15-100 18 [illegible]



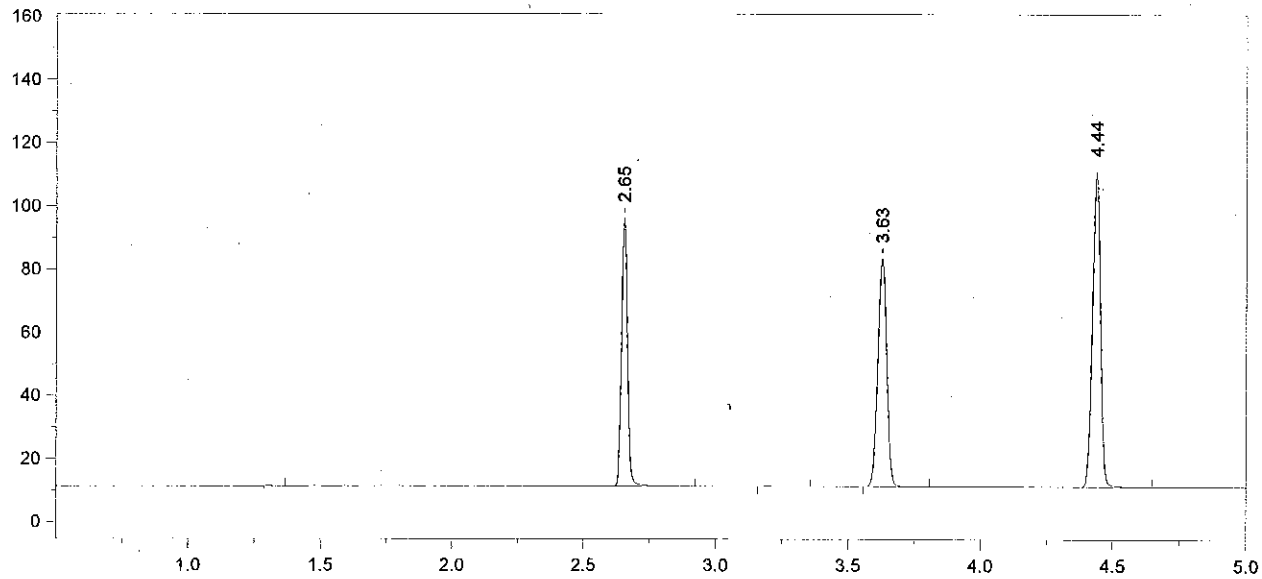
Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 7:28:22 PM
Bound File Name = VFL08132013.0017.RAW
Sample Name = CCS
Date Taken = 8/13/2013 7:28:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	85034	0.0817 *
6	3.63	t-Butanol	150043	0.9811
7	4.44	n-Propanol	199828	1.0000

Avg #16 + #17 = 0.080
RLM 8/14/13

13-15-100 19 RLM

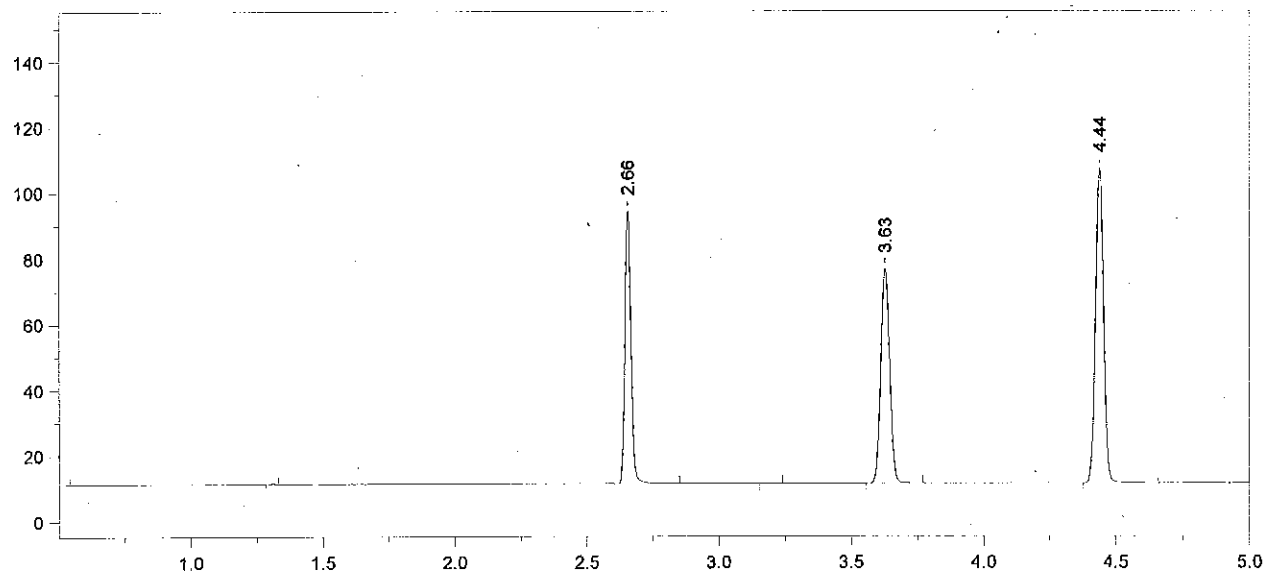


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 7:45:33 PM
Bound File Name = VFL08132013.0018.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 7:45:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	132205	0.1197	0.0977
5	3.63	t-Butanol	167158	1.0303	0.8409
6	4.44	n-Propanol	211987	1.0000	0.8162

13-15-100 20 RLM

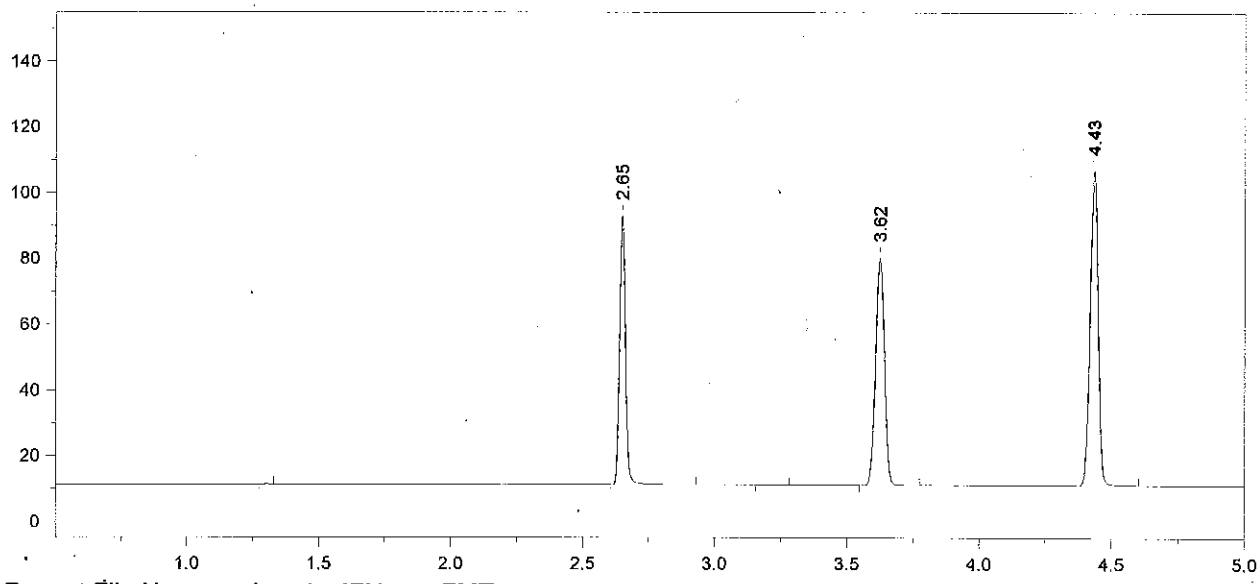


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 7:59:14 PM
Bound File Name = VFL08132013.0019.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 7:59:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	130094	0.1219	0.0995
5	3.63	t-Butanol	151472	0.9662	0.7886
6	4.44	n-Propanol	204848	1.0000	0.8162

13-15-100 21 RLM

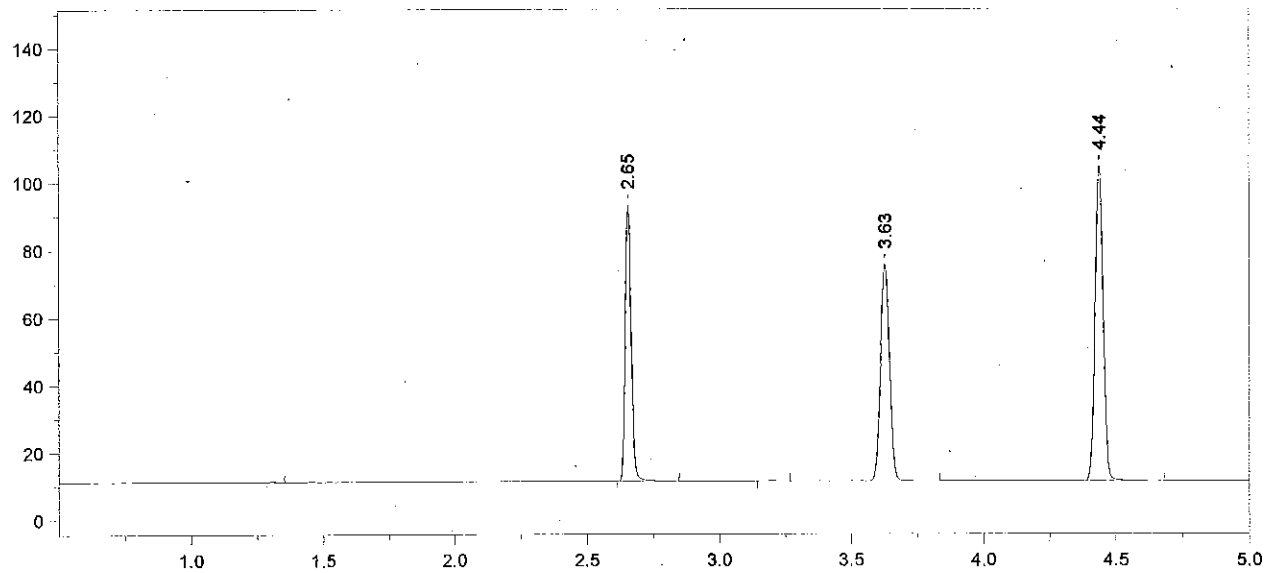


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 8:16:59 PM
Bound File Name = VFL08132013.0020.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 8:16:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	127090	0.1198	0.0978
5	3.62	t-Butanol	160195	1.0276	0.8387
6	4.43	n-Propanol	203688	1.0000	0.8162

13-15-100 22 RLM

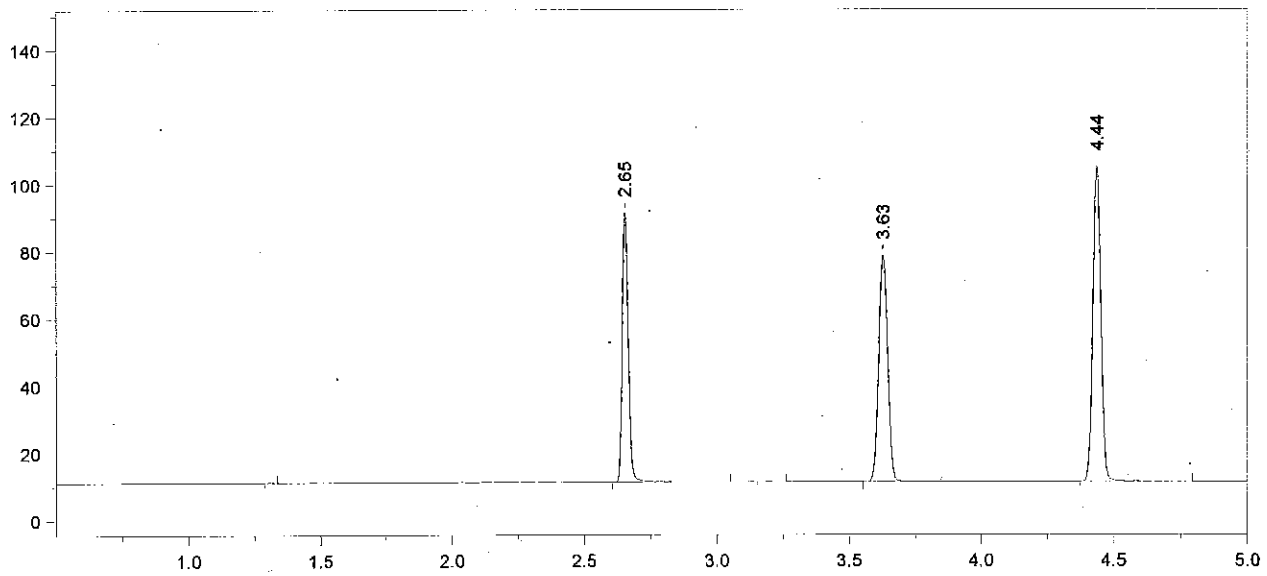


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 8:30:44 PM
Bound File Name = VFL08132013.0021.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 8:30:38 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	127603	0.1233	0.1007
5	3.63	t-Butanol	149068	0.9805	0.8003
6	4.44	n-Propanol	198643	1.0000	0.8162

13-15-100 23 RLM

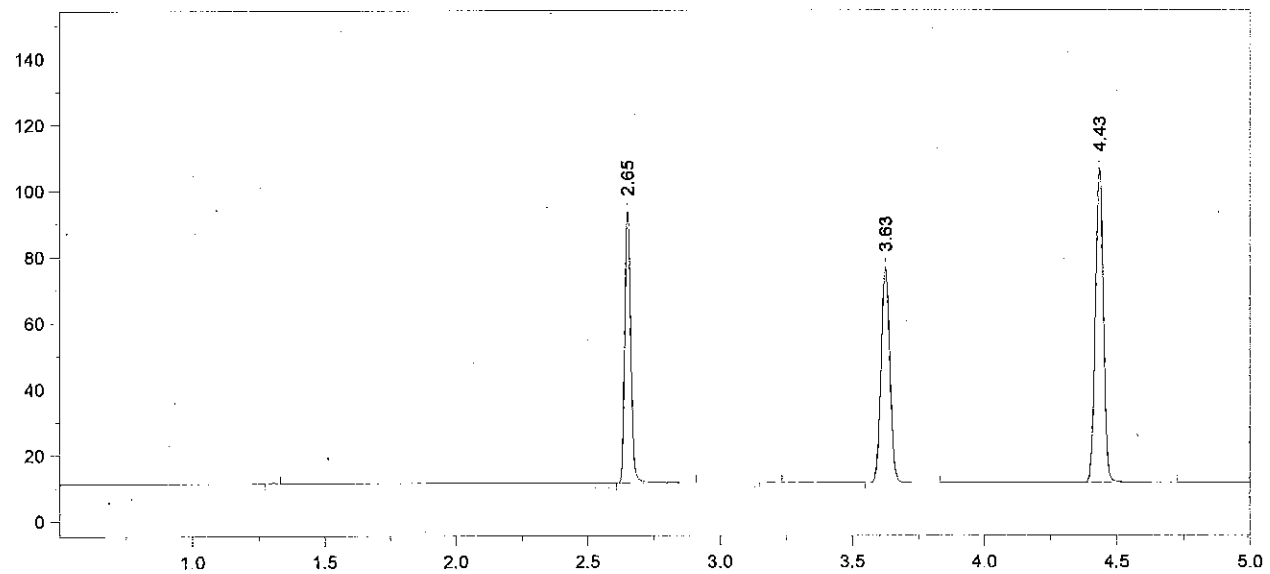


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 8:48:20 PM
Bound File Name = VFL08132013.0022.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 8:48:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	125084	0.1207	0.0985
5	3.63	t-Butanol	156727	1.0287	0.8397
6	4.44	n-Propanol	199062	1.0000	0.8162

13-15-100 24 RLM

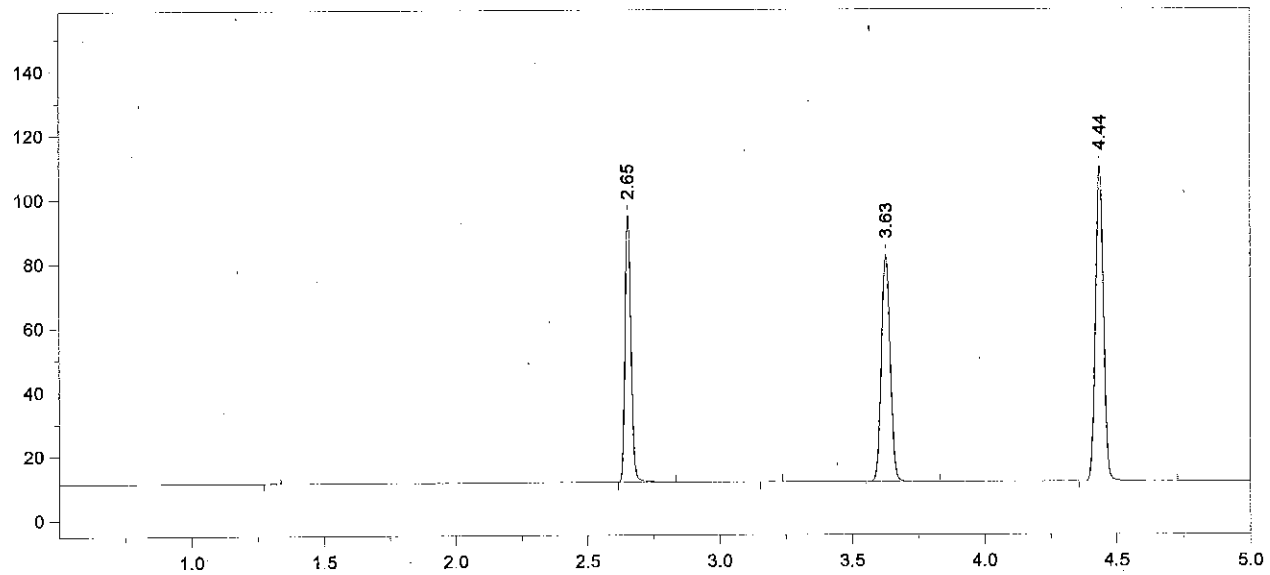


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 9:02:07 PM
Bound File Name = VFL08132013.0023.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 9:02:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129545	0.1228	0.1002
5	3.63	t-Butanol	151011	0.9740	0.7950
6	4.43	n-Propanol	202579	1.0000	0.8162

13-15-100 25 RLM

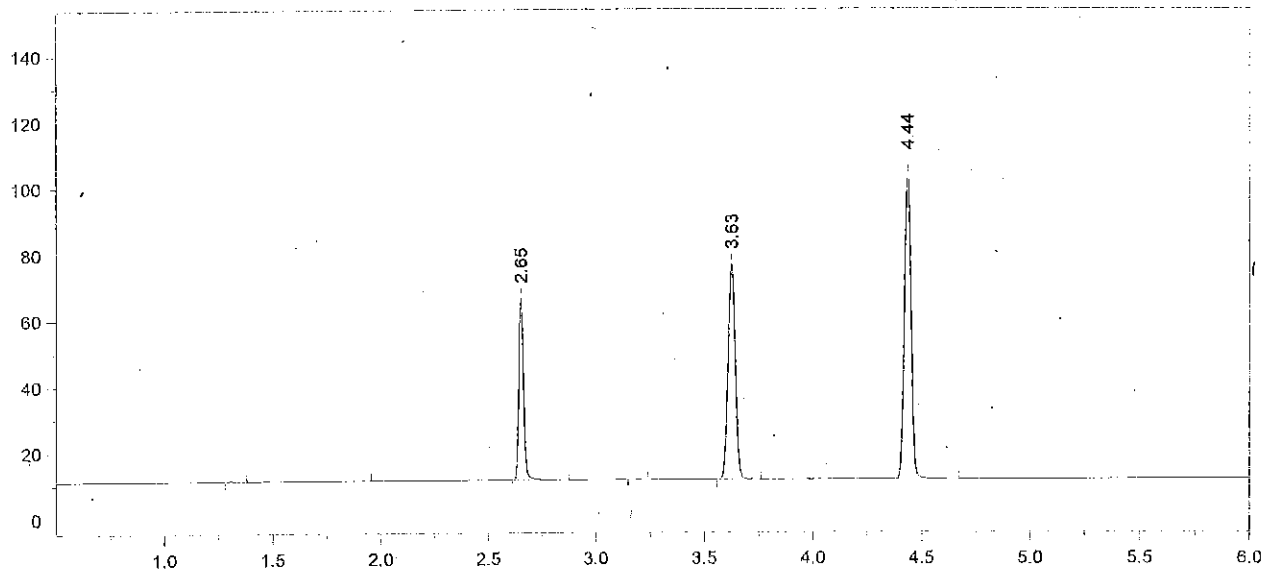


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 9:19:50 PM
Bound File Name = VFL08132013.0024.RAW
Sample Name = RLM 0.1
Date Taken = 8/13/2013 9:19:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128587	0.1184	0.0967
5	3.63	t-Butanol	164008	1.0278	0.8389
6	4.44	n-Propanol	208494	1.0000	0.8162

13-15-100 26 RLM

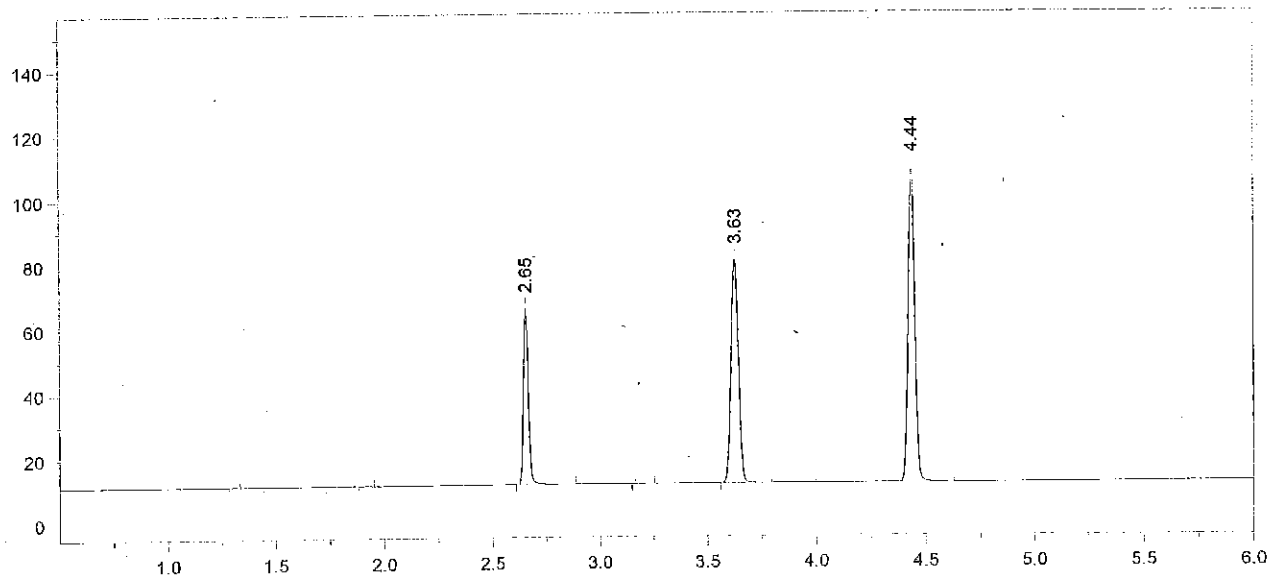


Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 9:33:02 PM
Bound File Name = VFL08132013.0025.RAW
Sample Name = CCS
Date Taken = 8/13/2013 9:32:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	85976	0.0814 *
6	3.63	t-Butanol	149765	0.9645
7	4.44	n-Propanol	202897	1.0000

13-15-100 27 KKM



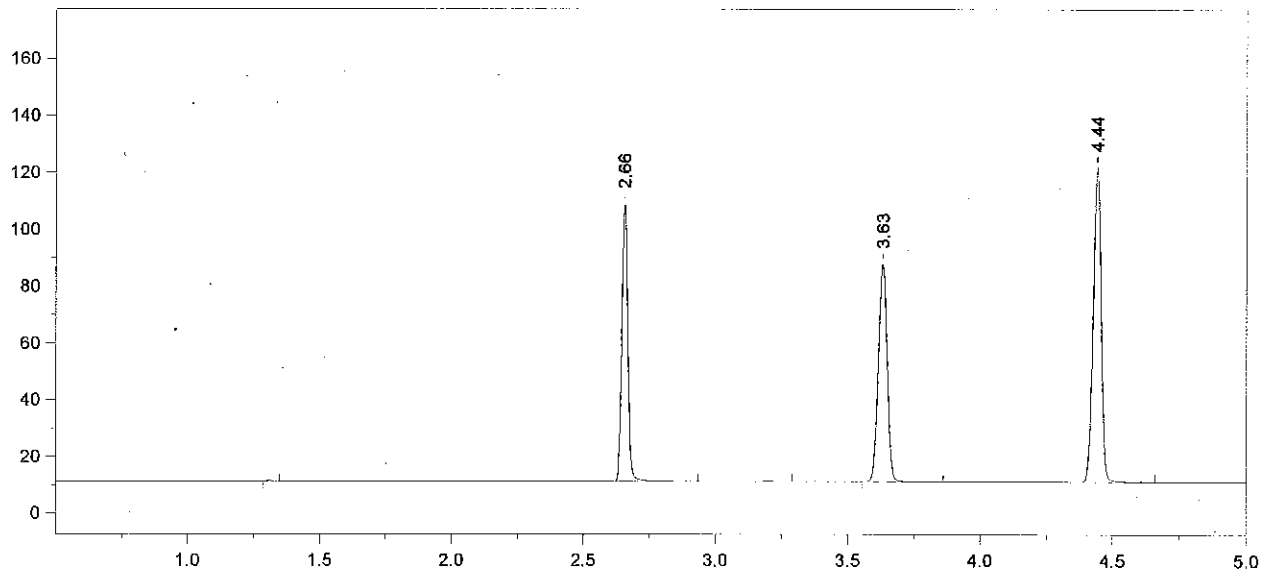
Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 9:51:13 PM
Bound File Name = VFL08132013.0026.RAW
Sample Name = CCS
Date Taken = 8/13/2013 9:51:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	85539	0.0796 *
6	3.63	t-Butanol	160517	1.0165
7	4.44	n-Propanol	206332	1.0000

Avg #25 + #26 = 0.080
RZM 8/14/13

13-15-100 28 RZM

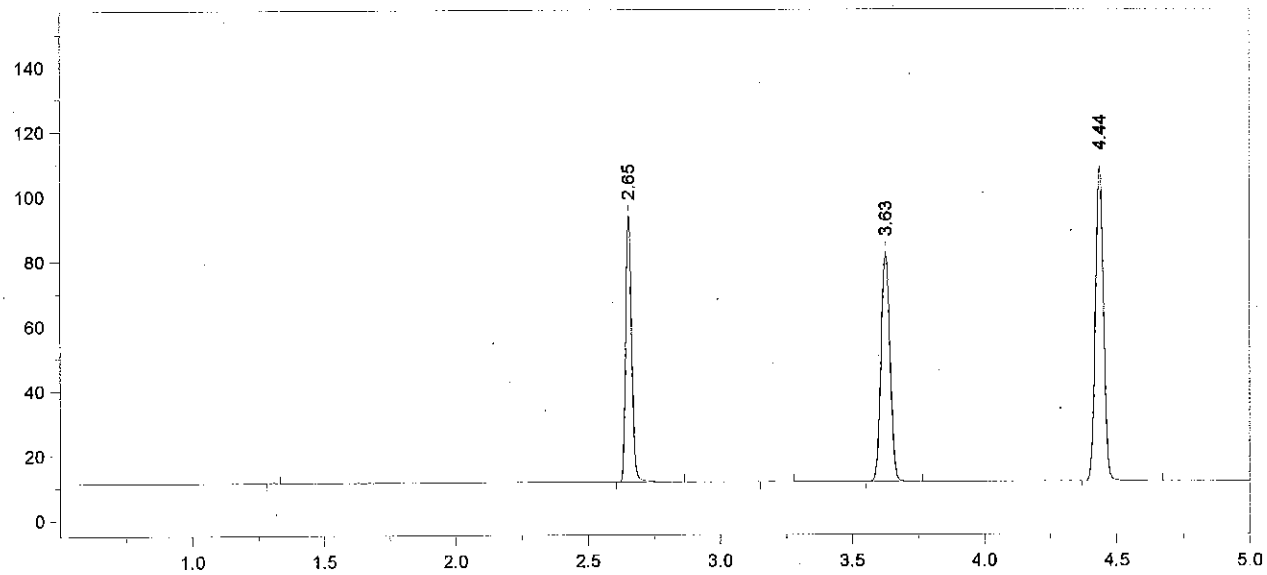


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013 Today's Time = 10:04:24 PM
Bound File Name = VFL08132013.0027.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 10:04:19 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	151314	0.1234	0.1007
5	3.63	t-Butanol	177360	0.9840	0.8032
6	4.44	n-Propanol	235506	1.0000	0.8162

13-15-100 29 [illegible]

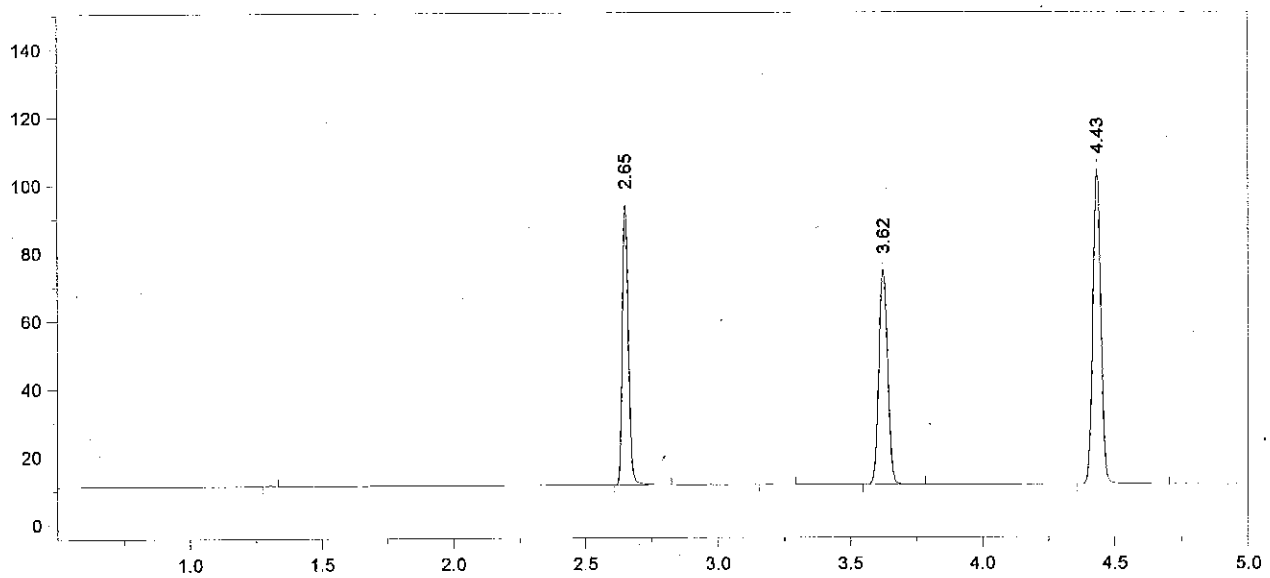


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 10:22:35 PM
Bound File Name = VFL08132013.0028.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 10:22:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	127371	0.1182	0.0965
5	3.63	t-Butanol	163628	1.0334	0.8435
6	4.44	n-Propanol	206883	1.0000	0.8162

13-15-100 30 Zkm

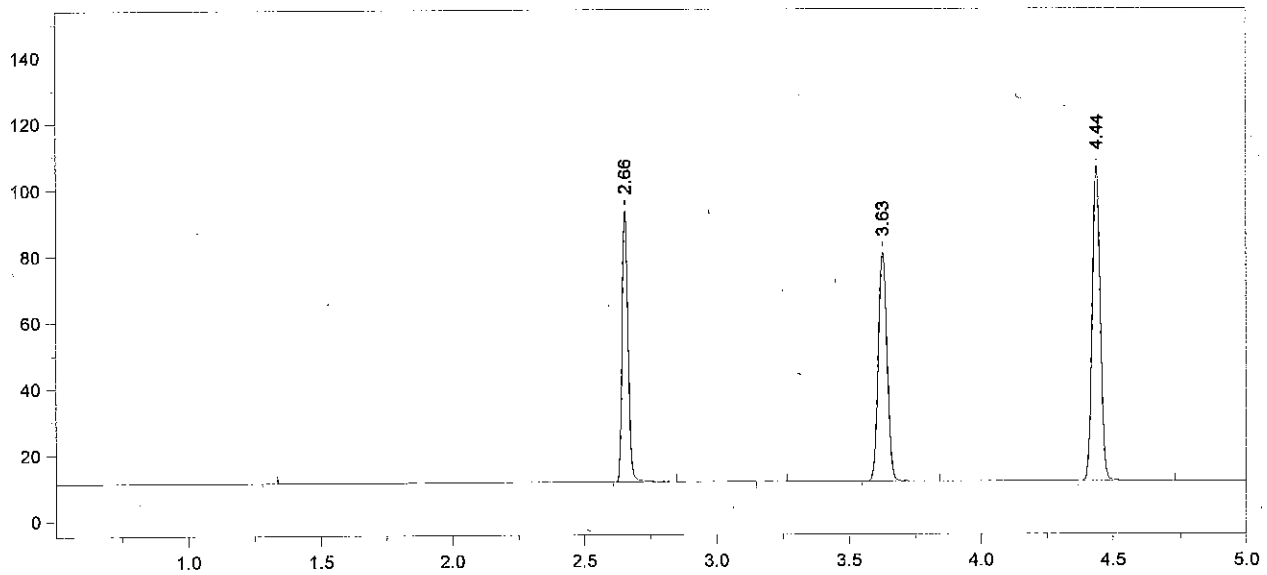


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 10:36:31 PM
Bound File Name = VFL08132013.0029.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 10:36:26 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128374	0.1250	0.1020
5	3.62	t-Butanol	146996	0.9739	0.7949
6	4.43	n-Propanol	197208	1.0000	0.8162

13-15-100 31

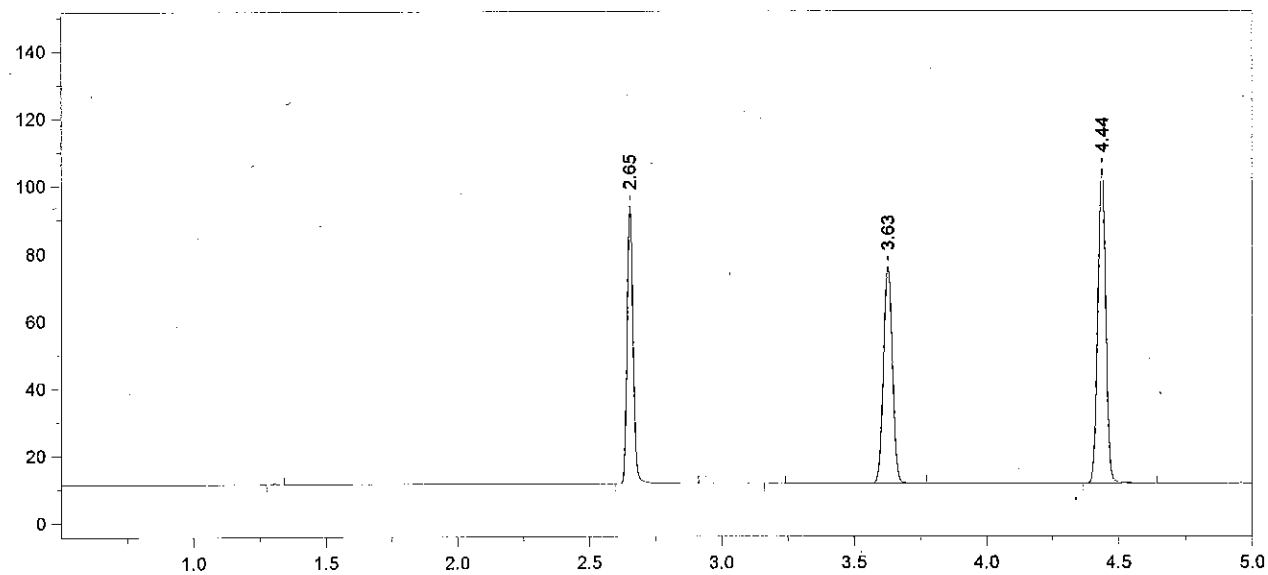


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 10:54:00 PM
Bound File Name = VFL08132013.0030.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 10:53:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	127727	0.1210	0.0988
5	3.63	t-Butanol	160394	1.0342	0.8441
6	4.44	n-Propanol	202640	1.0000	0.8162

13-15-100 32 RLm

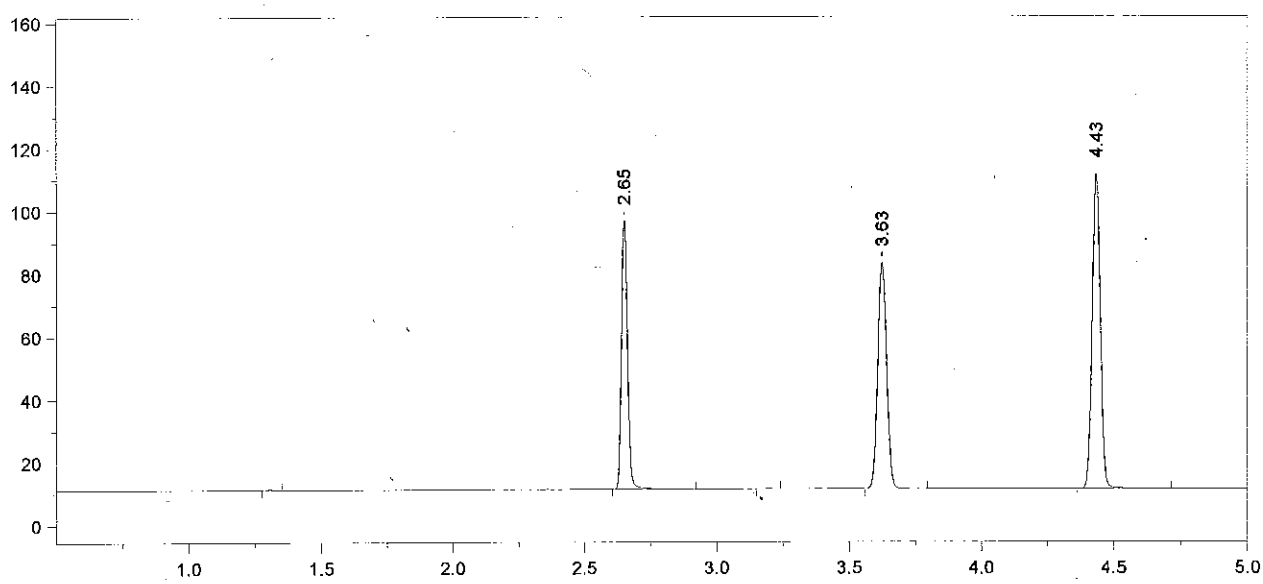


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 11:07:17 PM
Bound File Name = VFL08132013.0031.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 11:07:12 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128784	0.1246	0.1017
5	3.63	t-Butanol	149379	0.9839	0.8030
6	4.44	n-Propanol	198382	1.0000	0.8162

13-15-100 33 [illegible]

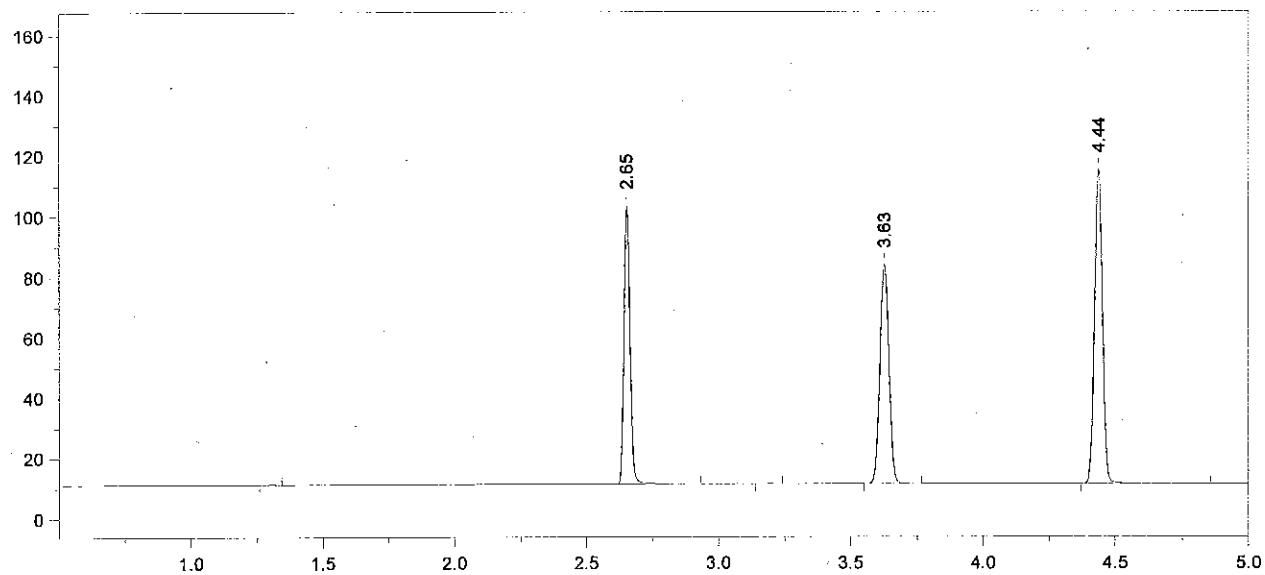


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 11:25:29 PM
Bound File Name = VFL08132013.0032.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 11:25:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	134277	0.1209	0.0987
5	3.63	t-Butanol	167290	1.0253	0.8369
6	4.43	n-Propanol	213188	1.0000	0.8162

13-15-100 34 RZM

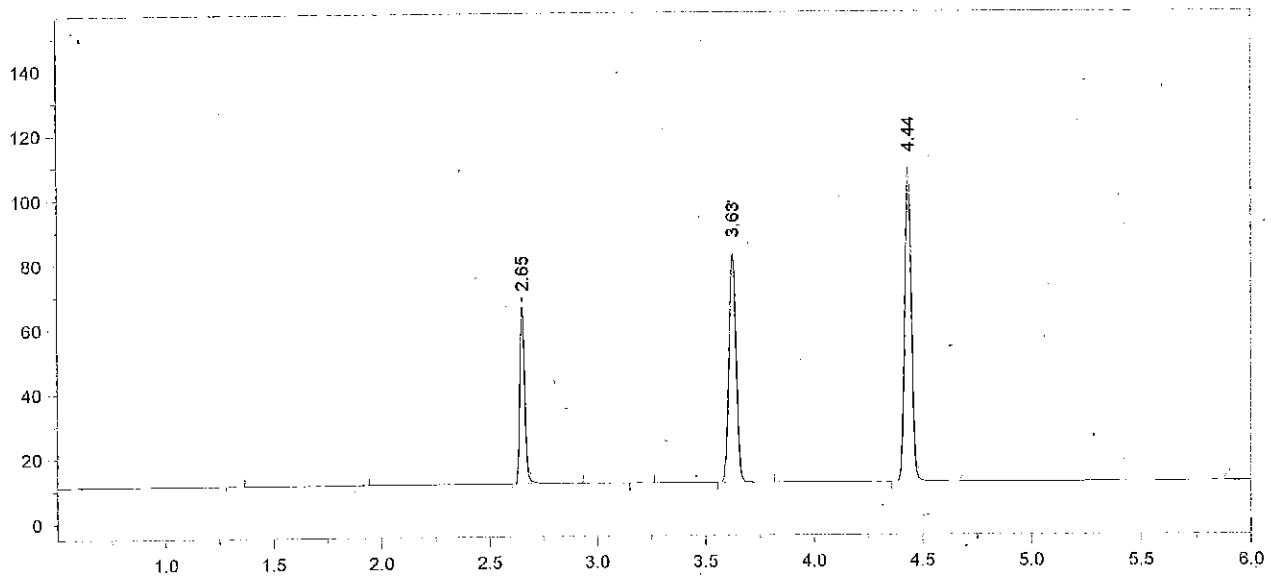


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/13/2013
Today's Time = 11:39:28 PM
Bound File Name = VFL08132013.0033.RAW
Sample Name = ALB 0.1
Date Taken = 8/13/2013 11:39:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	143067	0.1238	0.1011
5	3.63	t-Butanol	169042	0.9955	0.8125
6	4.44	n-Propanol	221872	1.0000	0.8162

13-15-100 35 RZM

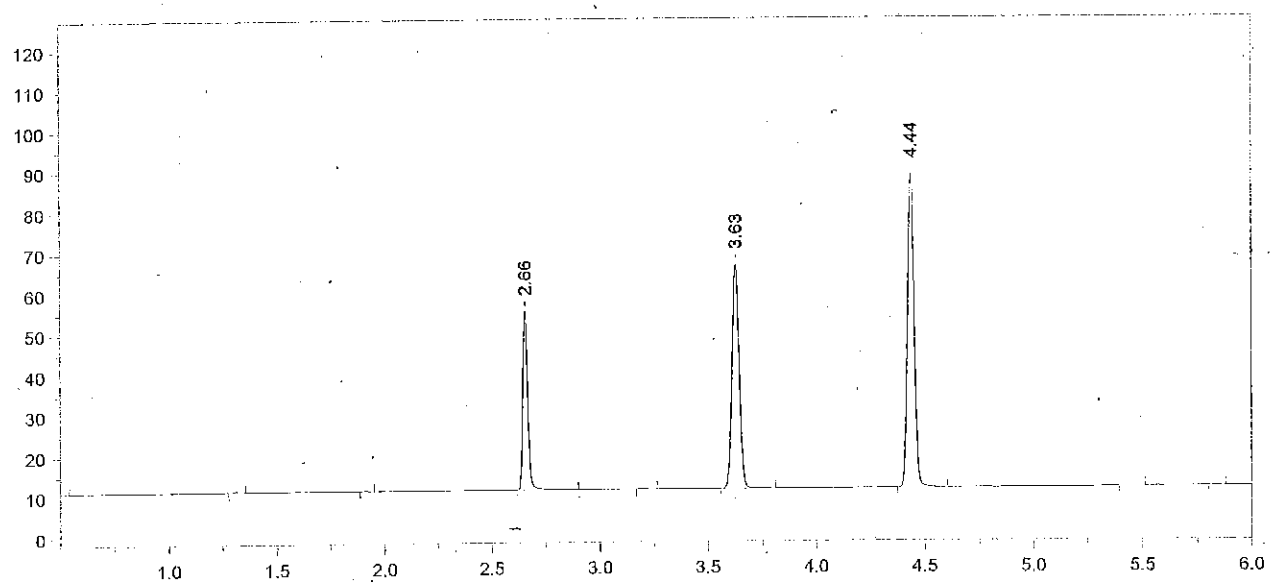


Format File Name = AlcoholVFL.FMT

Today's Date = 8/13/2013
Today's Time = 11:56:57 PM
Bound File Name = VFL08132013.0034.RAW
Sample Name = CCS
Date Taken = 8/13/2013 11:56:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	85783	0.0794 *
6	3.63	t-Butanol	164585	1.0368
7	4.44	n-Propanol	207412	1.0000

13-15-100 36 RLM



Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 12:10:15 AM
Bound File Name = VFL08132013.0035.RAW
Sample Name = CCS
Date Taken = 8/14/2013 12:10:09 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08132013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	69507	0.0810 *
6	3.63	t-Butanol	127506	1.0108
7	4.44	n-Propanol	164825	1.0000

Avg #34 + #35 = 0.080
RZM 8/14/13

13-15-100 37 RZM

Headspace Alcohol Analysis Standards Coversheet

8/19/2013

Analyst: RLM Date: 8/14/13

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
% 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

(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	1.92		
		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		0.080	(Y) N	
6	Standard D		0.201	(Y) N	
7	Standard E		0.403	(Y) N	
~~8~~ 10 RLM 8/19/13	Aqueous QC		0.0769	(Y) N	Avg = 0.077 (96% recovery) ✓
~~9~~ 11 RLM 8/19/13	Aqueous QC		0.0780	(Y) N	

13-15-100 38 RLM

File Name: C:\Methods\VFL08142013.CAL
Version: 7

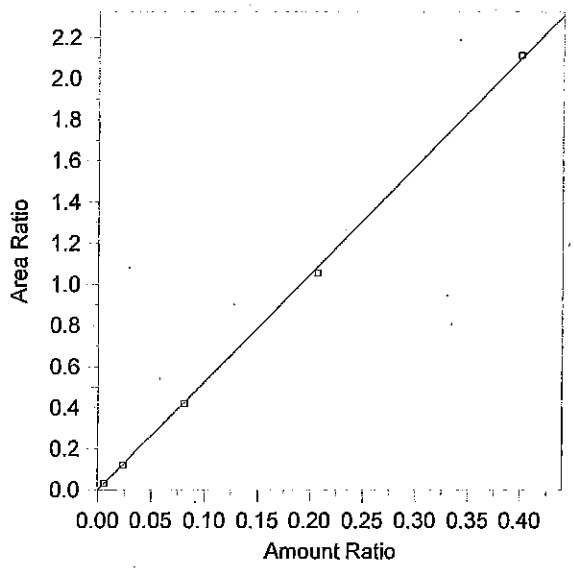
Creator:
Description:
Reason for change:

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 = 5.242611 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.999599
Average error:	2.274%
Average CF:	5.201996
RSD:	2.691%

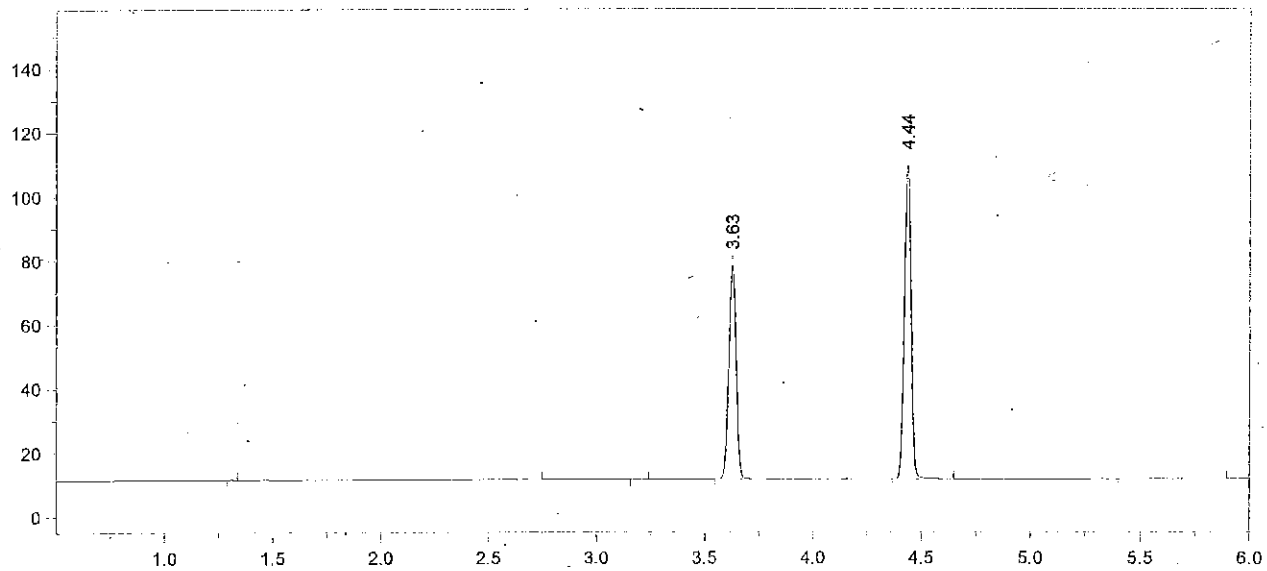
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0059	6262.808	1061493	2.959	0.0059	3.184666E-02	C:\Alcohol Data\VFL08142013\VFL08142013.0003.BND	8/14/2013 4:51:42 PM
3	0.0237	24360.56	1027872	-3.619	0.0237	0.1197534	C:\Alcohol Data\VFL08142013\VFL08142013.0004.BND	8/14/2013 5:09:23 PM
4	0.0812	93726.65	1154269	-1.286	0.0812	0.4202252	C:\Alcohol Data\VFL08142013\VFL08142013.0005.BND	8/14/2013 5:24:23 PM
5	0.2065	213344.7	1033146	-2.718	0.2065	1.053177	C:\Alcohol Data\VFL08142013\VFL08142013.0006.BND	8/14/2013 5:40:58 PM
6	0.3998	431318.8	1078837	0.790	0.3998	2.112558	C:\Alcohol Data\VFL08142013\VFL08142013.0007.BND	8/14/2013 5:55:14 PM

13-15-100 39 KLM

File Name = C:\Alcohol Data\VFL08142013\VFL08142013.SEQ
Version = 1
File Date = 8/14/2013 3:44:33 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL08142013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL08142013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL08142013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL08142013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL08142013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL08142013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL08142013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL08142013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL08142013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL08142013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL08142013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL08142013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL08142013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL08142013.0014.raw	Blood Alc temp VFL.MET	V13-1737 A1-1] case samples	1.00	1.00
15	VFL08142013.0015.raw	Blood Alc temp VFL.MET	V13-1737 A1-1] not included	1.00	1.00
16	VFL08142013.0016.raw	Blood Alc temp VFL.MET	CCS RLM 8/15/13	1.00	1.00
17	VFL08142013.0017.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
18	VFL08142013.0018.raw	simsoln.met	RLM 0.1	1.00	1.00
19	VFL08142013.0019.raw	simsoln.met	RLM 0.1	1.00	1.00
20	VFL08142013.0020.raw	simsoln.met	RLM 0.1	1.00	1.00
21	VFL08142013.0021.raw	simsoln.met	RLM 0.1	1.00	1.00
22	VFL08142013.0022.raw	simsoln.met	RLM 0.1	1.00	1.00
23	VFL08142013.0023.raw	simsoln.met	RLM 0.1	1.00	1.00
24	VFL08142013.0024.raw	simsoln.met	RLM 0.1	1.00	1.00
25	VFL08142013.0025.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
26	VFL08142013.0026.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
27	VFL08142013.0027.raw	simsoln.met	ALB 0.1	1.00	1.00
28	VFL08142013.0028.raw	simsoln.met	ALB 0.1	1.00	1.00
29	VFL08142013.0029.raw	simsoln.met	ALB 0.1	1.00	1.00
30	VFL08142013.0030.raw	simsoln.met	ALB 0.1	1.00	1.00
31	VFL08142013.0031.raw	simsoln.met	ALB 0.1	1.00	1.00
32	VFL08142013.0032.raw	simsoln.met	ALB 0.1	1.00	1.00
33	VFL08142013.0033.raw	simsoln.met	ALB 0.1	1.00	1.00
34	VFL08142013.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL08142013.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-15-100 40 RLM

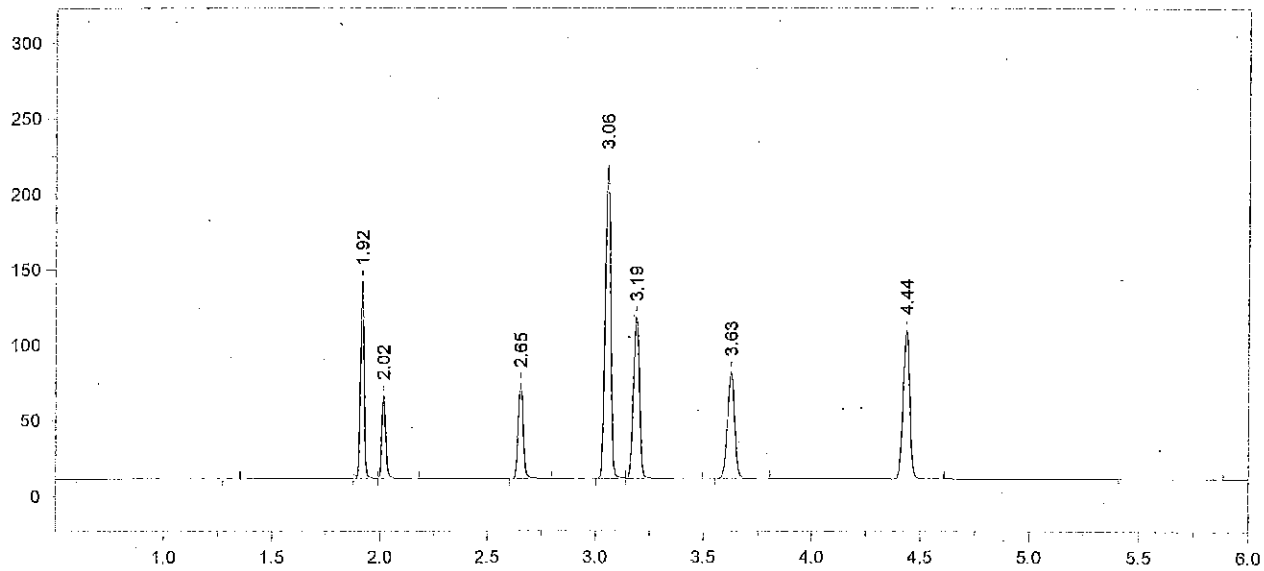


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 7:50:49 AM
Bound File Name = VFL08142013.0001.RAW
Sample Name = Blank
Date Taken = 8/14/2013 4:20:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	3.63	t-Butanol	154970	0.9689
6	4.44	n-Propanol	208301	1.0000

13-15-100 41 RZm

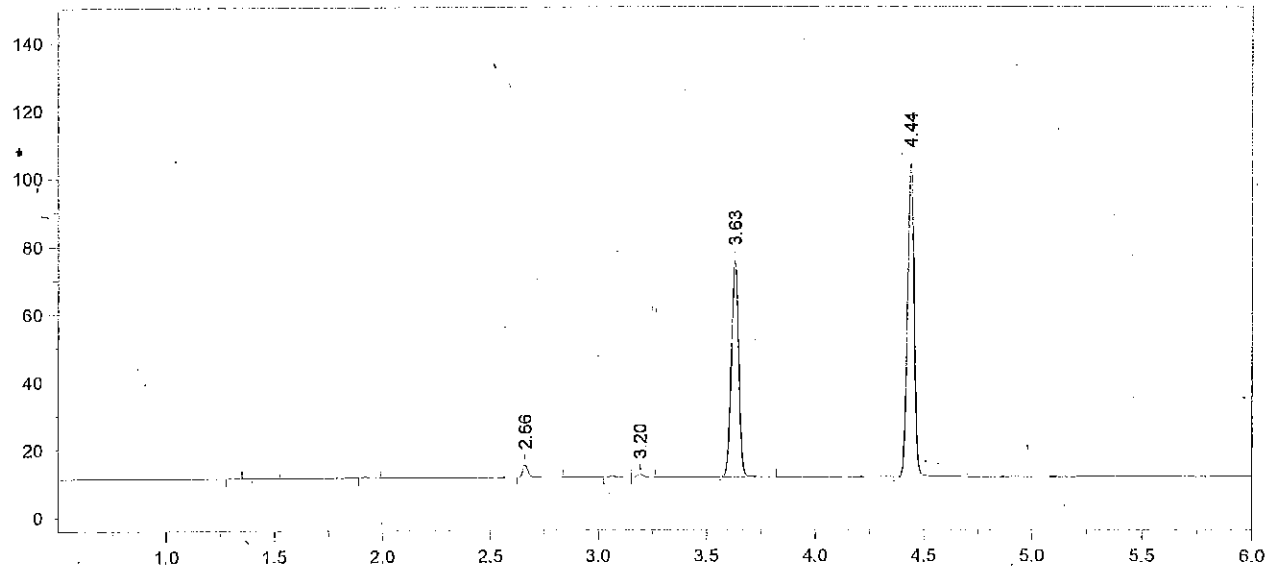


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013 Today's Time = 7:50:54 AM
Bound File Name = VFL08142013.0002.RAW
Sample Name = TMX
Date Taken = 8/14/2013 4:37:55 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.92	Acetaldehyde	153259	0.0520
4	2.02	Methanol	70822	0.1370
5	2.65	Ethanol	98187	0.0894
6	3.06	Acetone	354778	0.0940
7	3.19	Isopropanol	201137	0.0850
8	3.63	t-Butanol	162718	1.0114
9	4.44	n-Propanol	209523	1.0000

13-15-100 42 [illegible]

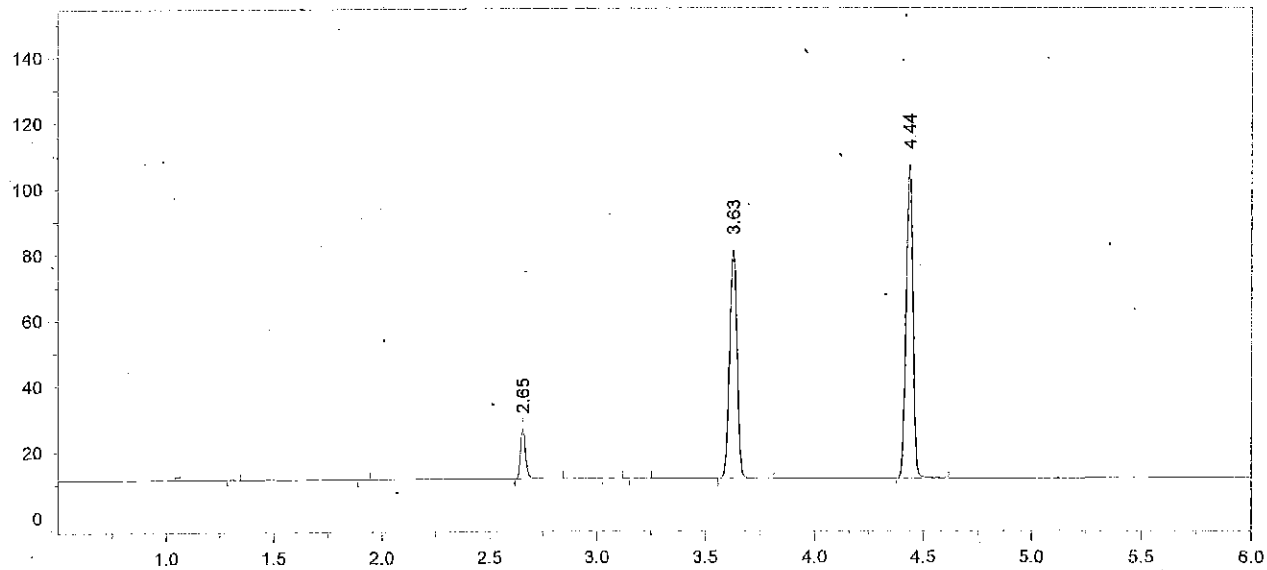


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 7:50:59 AM
Bound File Name = VFL08142013.0003.RAW
Sample Name = STD A
Date Taken = 8/14/2013 4:51:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	2.66	Ethanol	06263	0.0061 *
7	3.20	Isopropanol	01565	<0.004
8	3.63	t-Butanol	147409	0.9762
9	4.44	n-Propanol	196655	1.0000

13-15-100 43 RLm

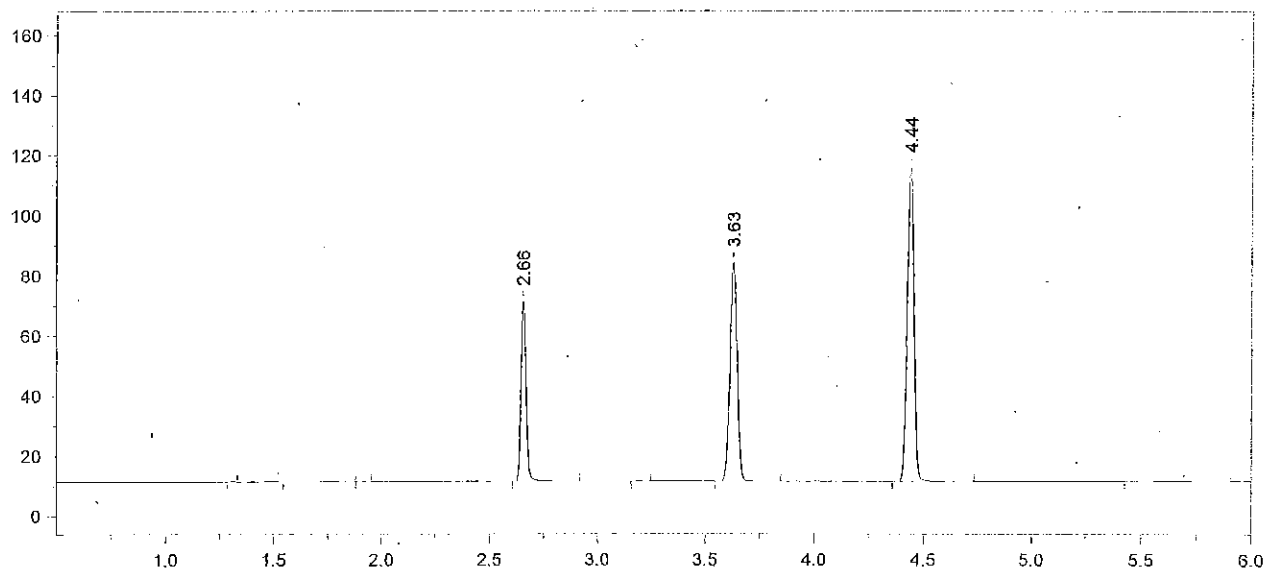


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 7:51:06 AM
Bound File Name = VFL08142013.0004.RAW
Sample Name = STD B
Date Taken = 8/14/2013 5:09:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	24361	0.0228 *
7	3.63	t-Butanol	160870	1.0299
8	4.44	n-Propanol	203423	1.0000

13-15-100 44 RLM

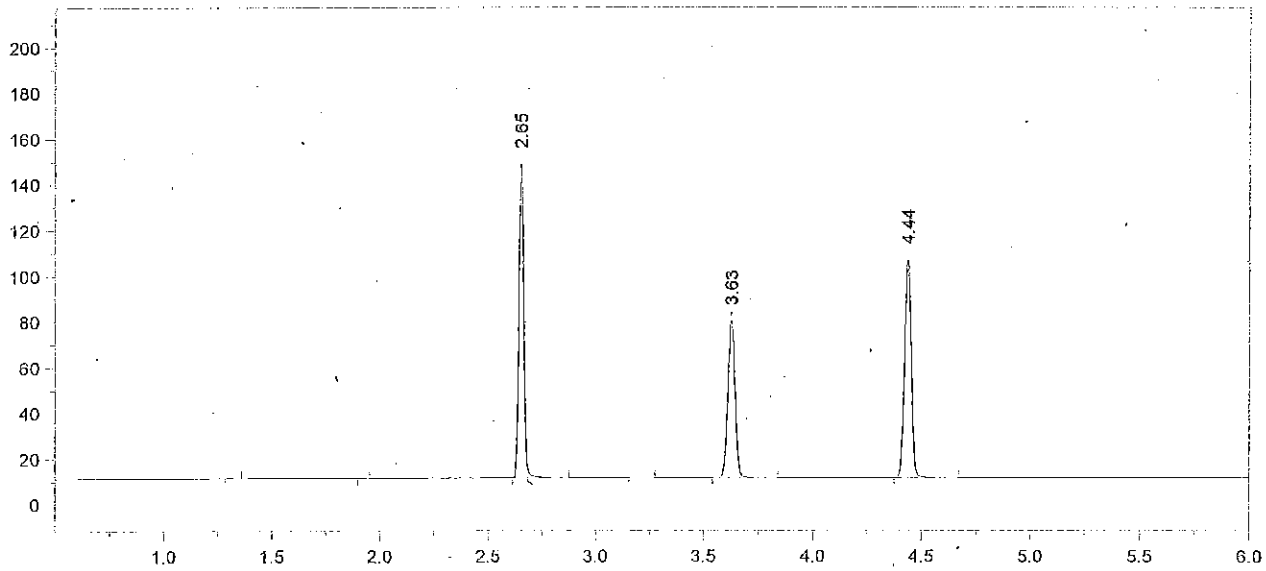


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 7:51:12 AM
Bound File Name = VFL08142013.0005.RAW
Sample Name = STD C
Date Taken = 8/14/2013 5:24:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	2.66	Ethanol	93727	0.0802 *
7	3.63	t-Butanol	167907	0.9805
8	4.44	n-Propanol	223039	1.0000

13-15-100 45 RZM

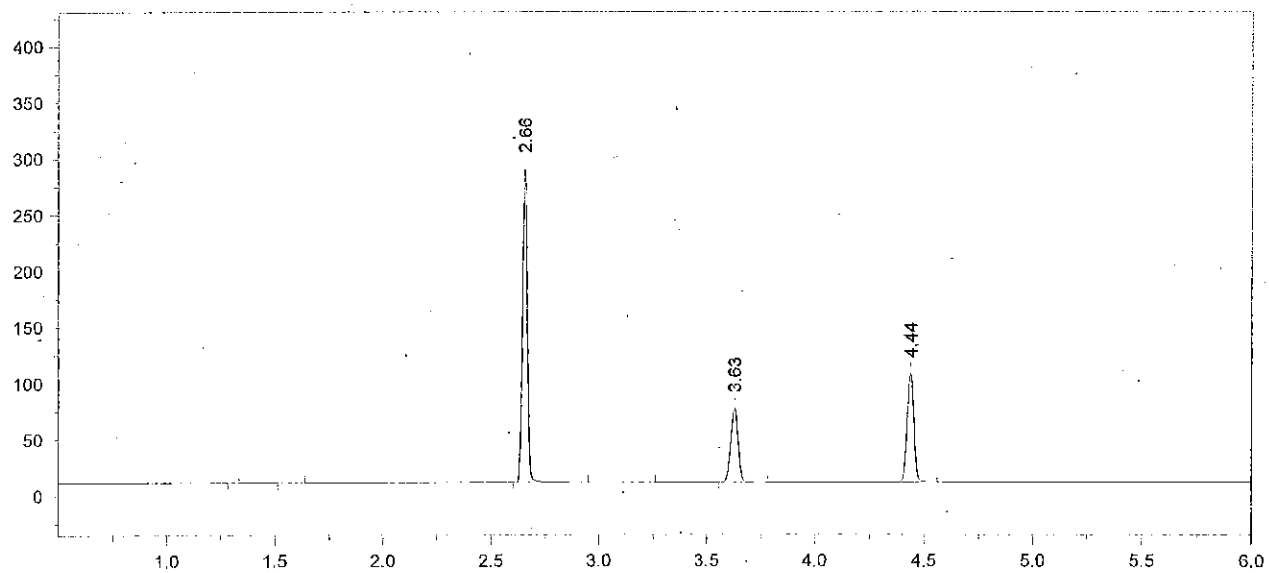


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 7:51:17 AM
Bound File Name = VFL08142013.0006.RAW
Sample Name = STD D
Date Taken = 8/14/2013 5:40:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	213345	0.2009
6	3.63	t-Butanol	159219	1.0237
7	4.44	n-Propanol	202573	1.0000

13-15-100 46 [illegible]

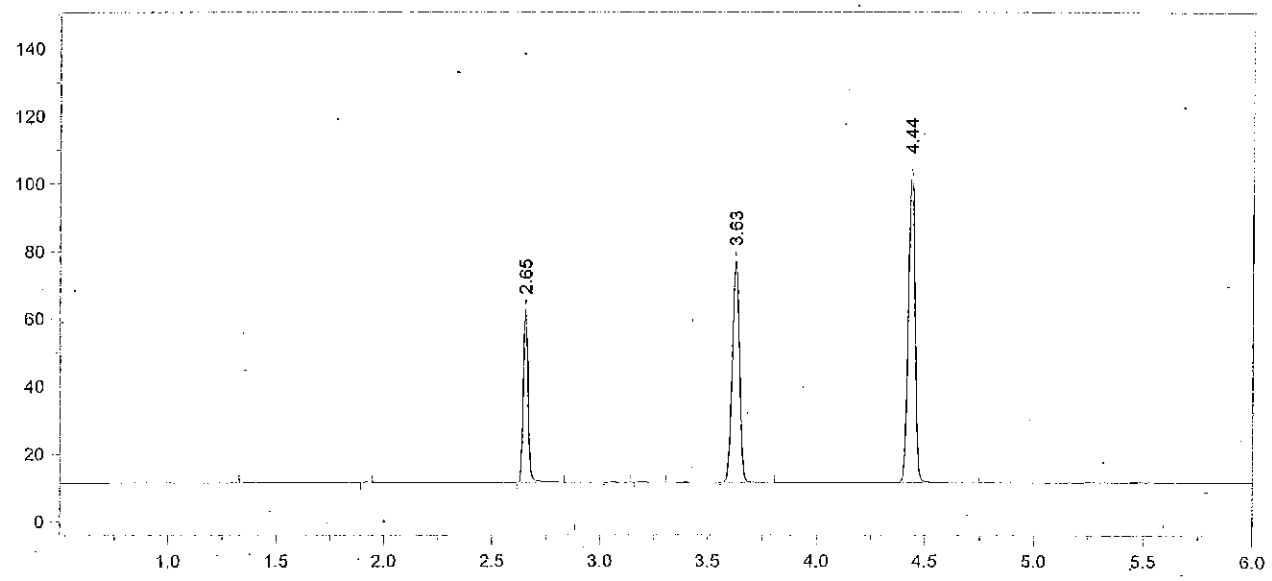


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 7:51:23 AM
Bound File Name = VFL08142013.0007.RAW
Sample Name = STD E
Date Taken = 8/14/2013 5:55:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	431319	0.4030
6	3.63	t-Butanol	153358	0.9783
7	4.44	n-Propanol	204169	1.0000

13-15-100 47 RLM

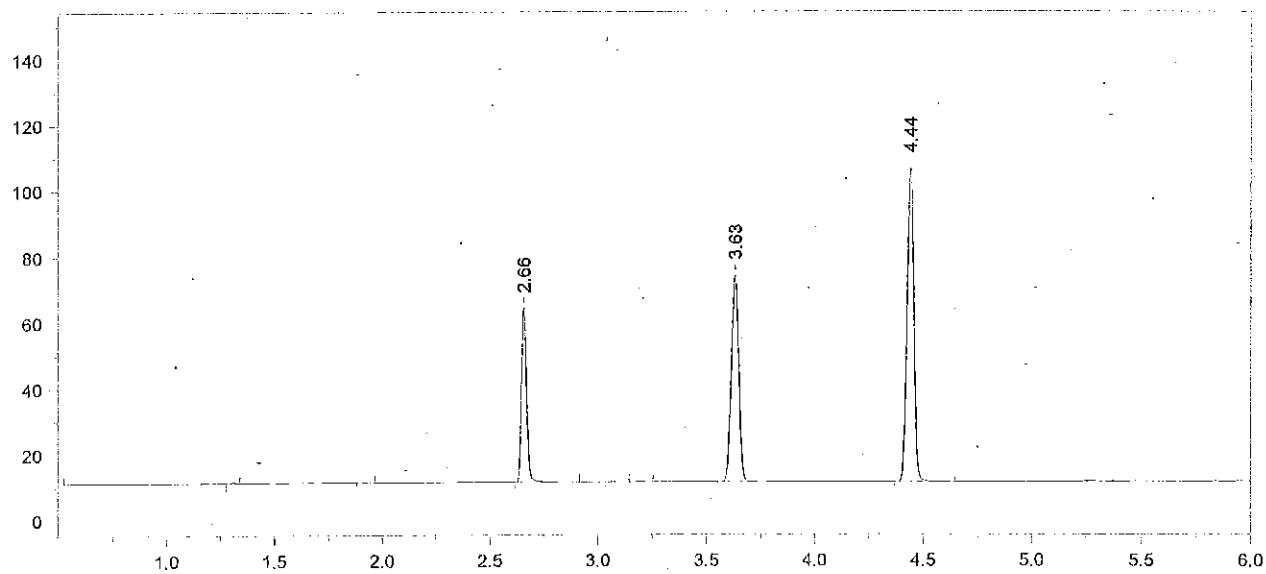


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 6:12:19 PM
Bound File Name = VFL08142013.0008.RAW
Sample Name = WB
Date Taken = 8/14/2013 6:12:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	80028	0.0770 *
7	3.63	t-Butanol	151427	0.9945
8	4.44	n-Propanol	198298	1.0000

13-15-100 48 KM



Format File Name = AlcoholVFL.FMT

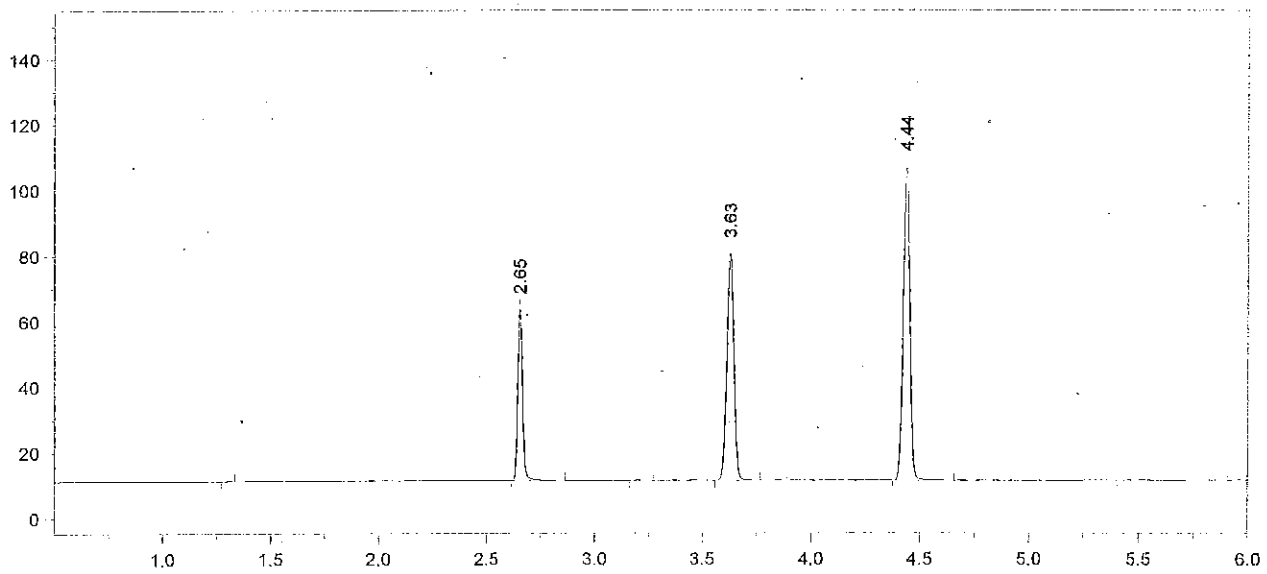
Today's Date = 8/14/2013
Today's Time = 6:26:30 PM
Bound File Name = VFL08142013.0009.RAW
Sample Name = WB
Date Taken = 8/14/2013 6:26:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	82833	0.0780 *
7	3.63	t-Butanol	145184	0.9340
8	4.44	n-Propanol	202449	1.0000

Avg #8 + #9 = 0.077
RZM 8/15/13

IOB Control: Cliniqa Lot # 0911120A
Target value: 0.076
Acceptance range: 0.068-0.083
RZM 8/15/13

13-15-100 49 RZM

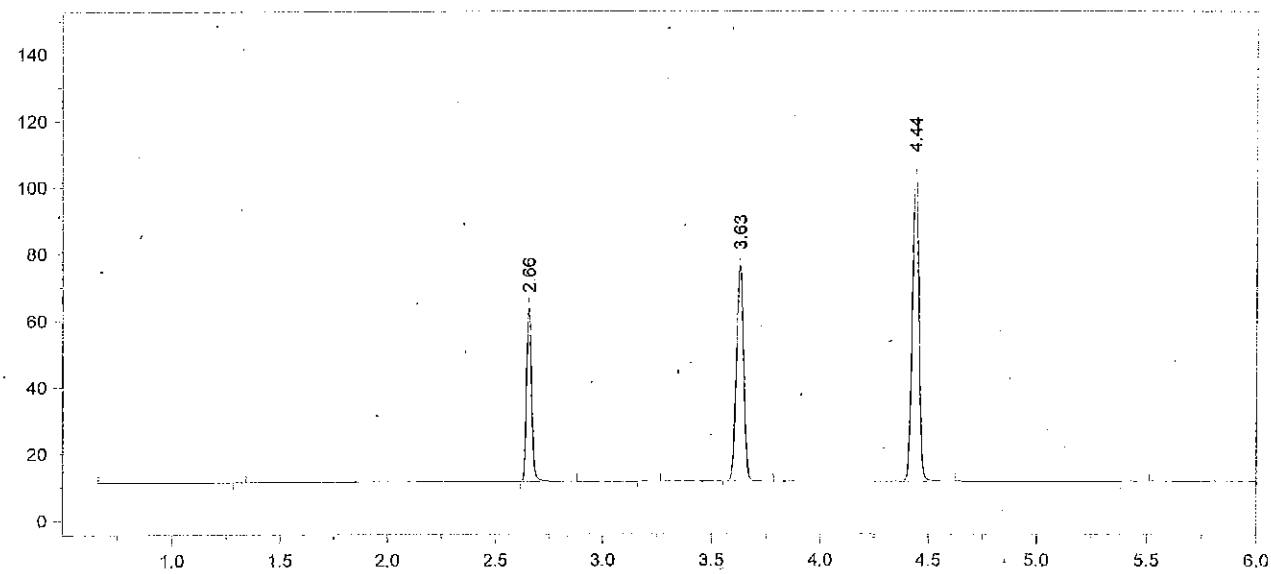


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 6:43:47 PM
Bound File Name = VFL08142013.0010.RAW
Sample Name = AQ QC
Date Taken = 8/14/2013 6:43:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82085	0.0769 *
5	3.63	t-Butanol	160287	1.0246
6	4.44	n-Propanol	203734	1.0000

13-15-100 50 RLM



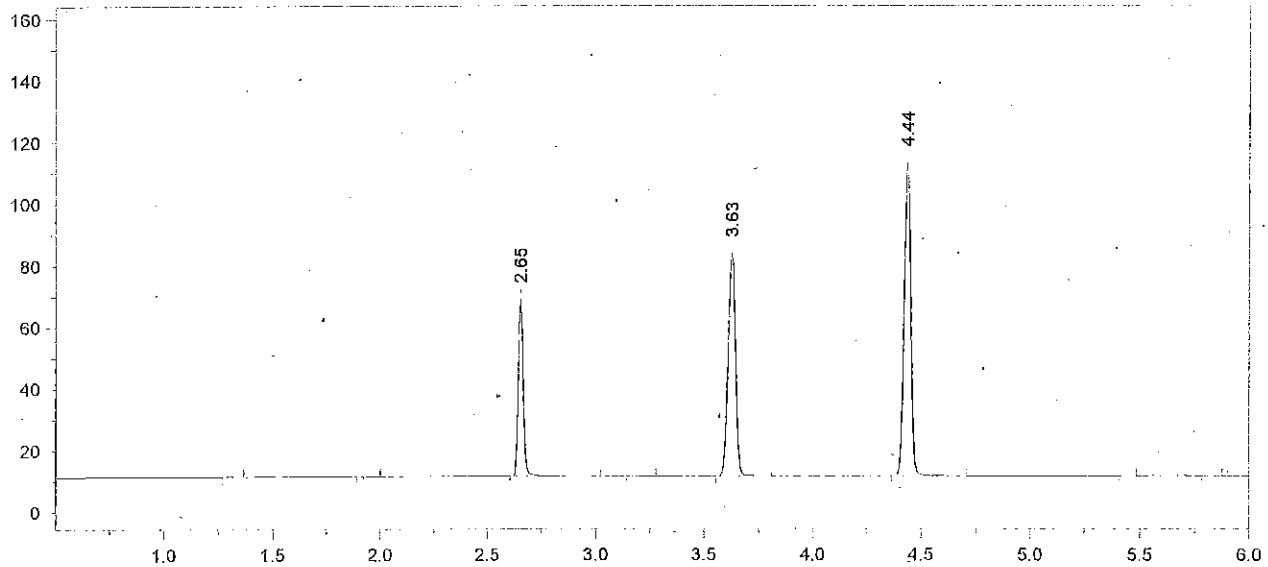
Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 6:57:20 PM
Bound File Name = VFL08142013.0011.RAW
Sample Name = AQ QC
Date Taken = 8/14/2013 6:57:17 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	82085	0.0780 *
5	3.63	t-Butanol	150195	0.9747
6	4.44	n-Propanol	200682	1.0000

Avg #10 + #11 = 0.077
RZM 8/15/13

13-15-100 51 RZM

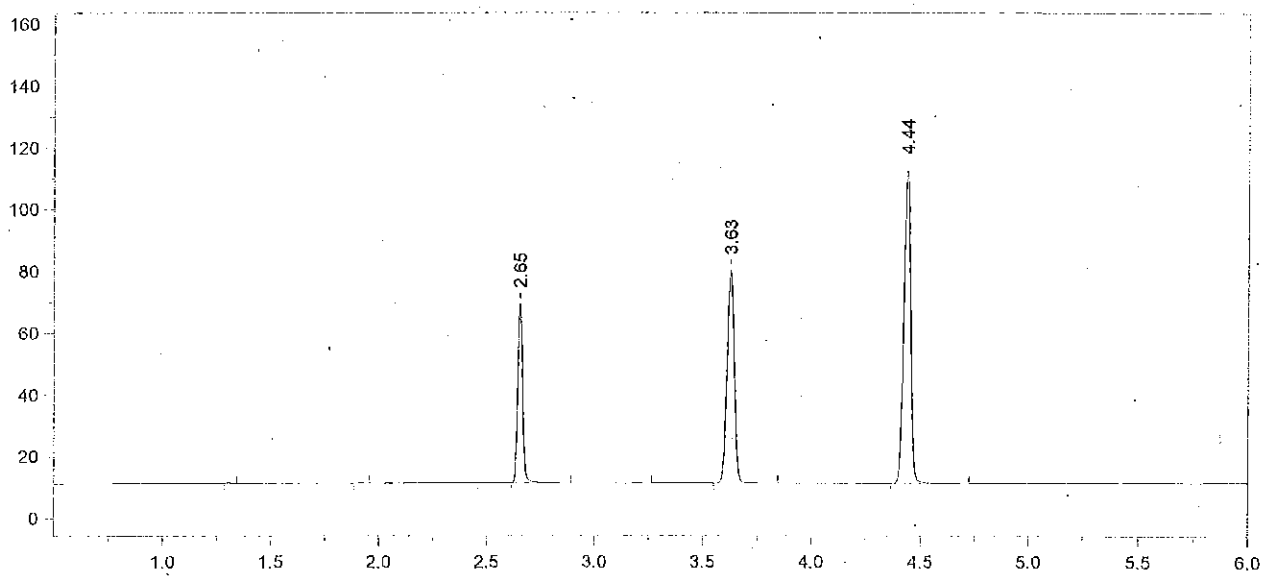


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:15:08 PM
Bound File Name = VFL08142013.0012.RAW
Sample Name = CCS
Date Taken = 8/14/2013 7:15:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	90210	0.0795 *
6	3.63	t-Butanol	168112	1.0115
7	4.44	n-Propanol	216446	1.0000

13-15-100 52 KLM



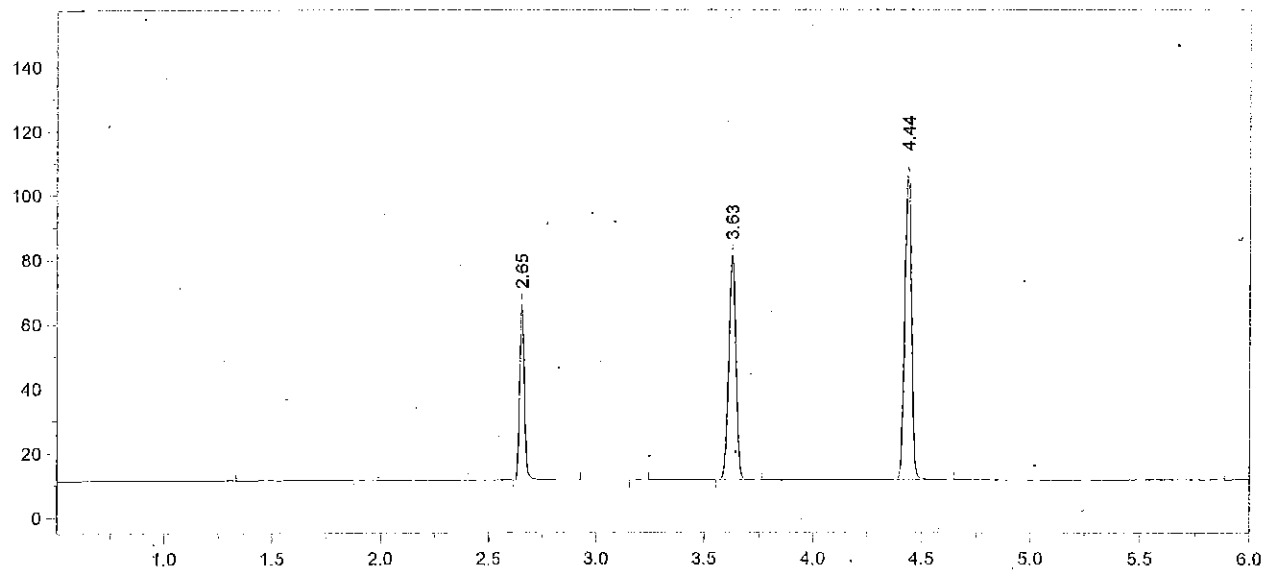
Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 7:28:25 PM
Bound File Name = VFL08142013.0013.RAW
Sample Name = CCS
Date Taken = 8/14/2013 7:28:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	91225	0.0804 *
6	3.63	t-Butanol	159552	0.9607
7	4.44	n-Propanol	216299	1.0000

Avg #12 + #13 = 0.080
RZM 8/15/13

13-15-100 53 RZM

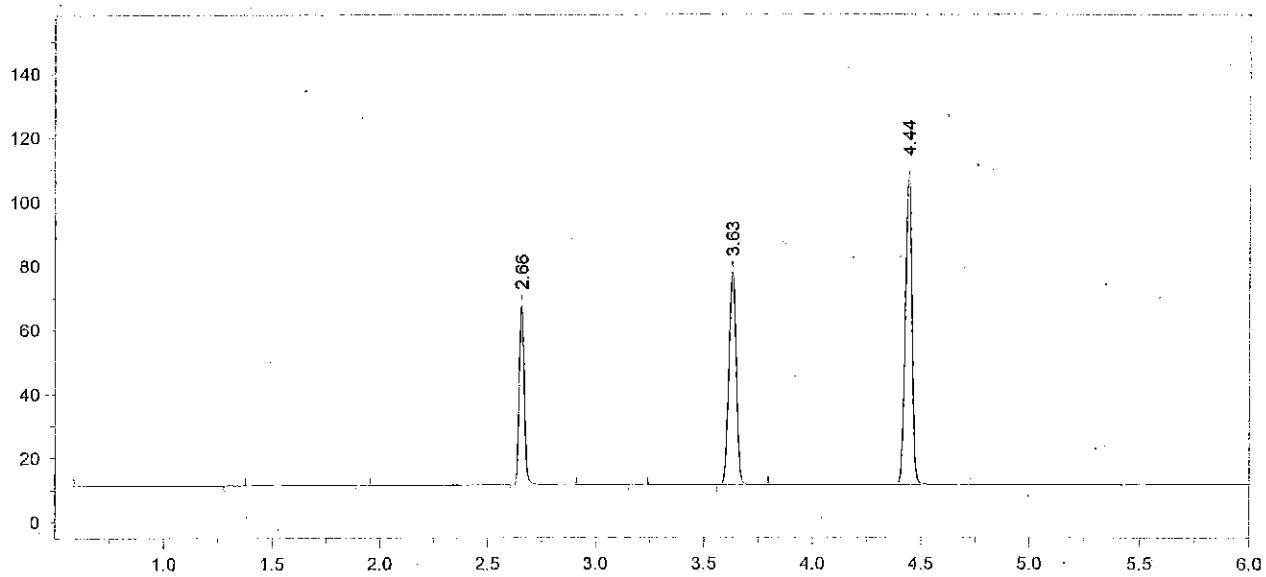


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 8:17:56 PM
Bound File Name = VFL08142013.0016.RAW
Sample Name = CCS
Date Taken = 8/14/2013 8:17:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	85128	0.0790 *
6	3.63	t-Butanol	161389	1.0221
7	4.44	n-Propanol	205655	1.0000

13-15-100 54 [illegible]



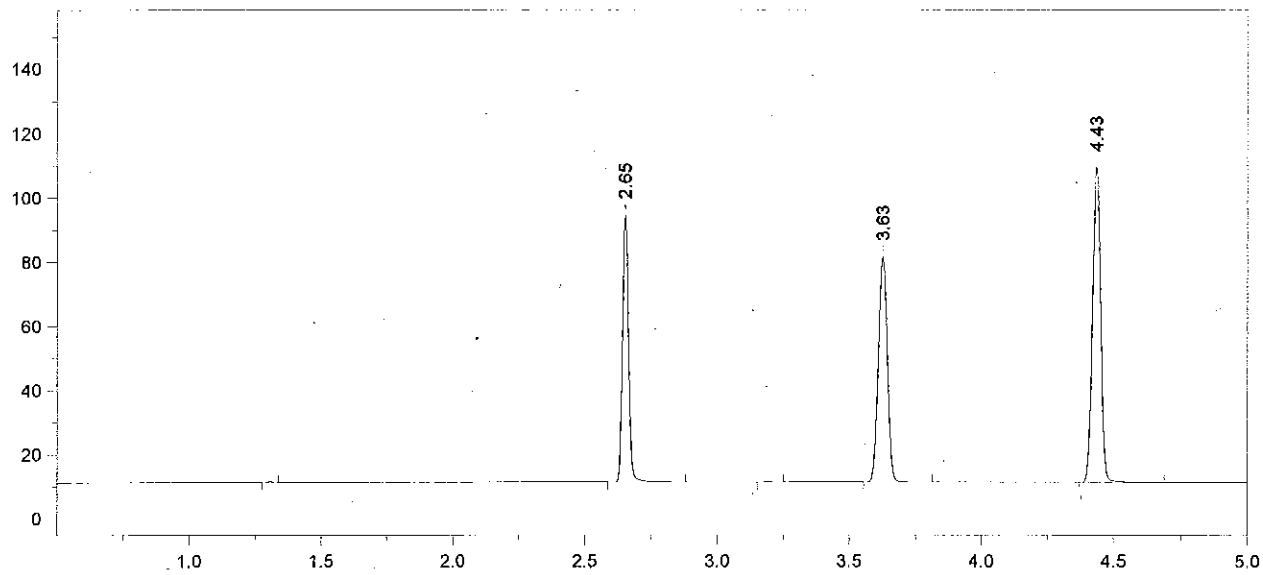
Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 8:31:46 PM
Bound File Name = VFL08142013.0017.RAW
Sample Name = CCS
Date Taken = 8/14/2013 8:31:36 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	87994	0.0805 *
6	3.63	t-Butanol	154459	0.9649
7	4.44	n-Propanol	208483	1.0000

Avg #16 + #17 = 0.080
[illegible] 8/15/13

13-15-100 55 [illegible]

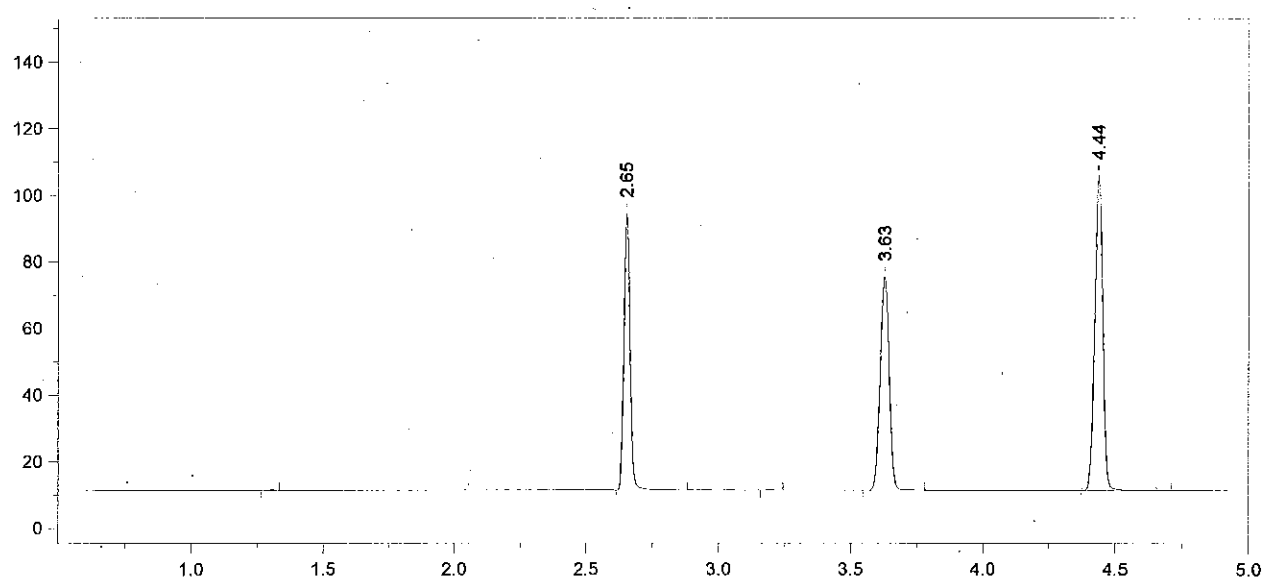


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 8:49:27 PM
Bound File Name = VFL08142013.0018.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 8:49:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129999	0.1185	0.0967
5	3.63	t-Butanol	162858	1.0137	0.8274
6	4.43	n-Propanol	209235	1.0000	0.8162

13-15-100 56 RLM

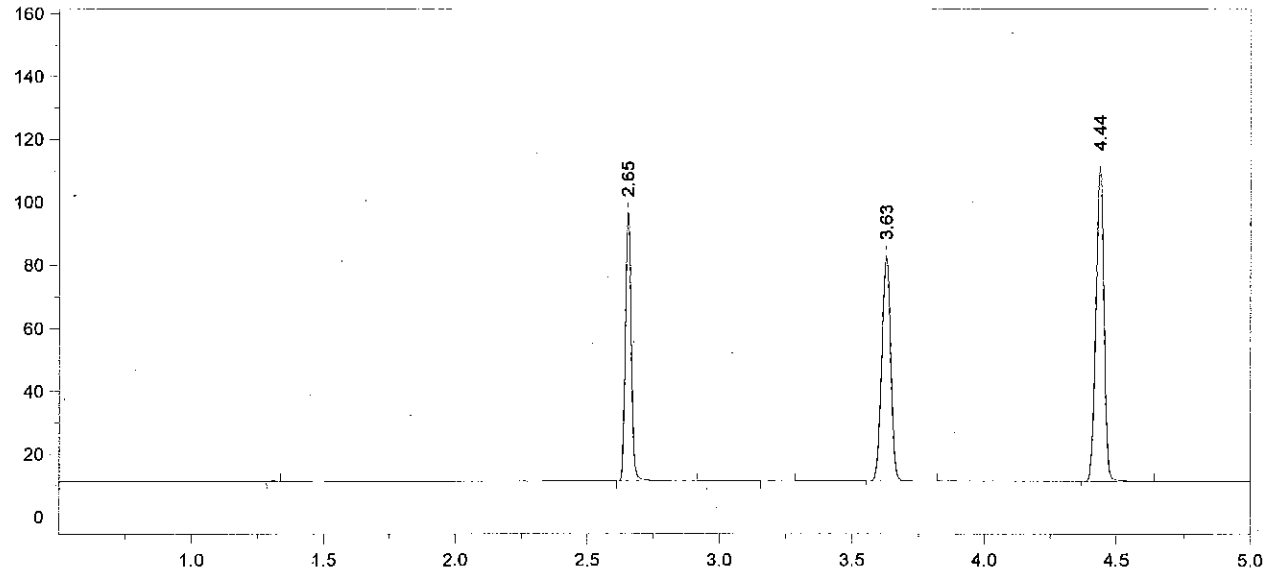


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 9:02:38 PM
Bound File Name = VFL08142013.0019.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 9:02:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128676	0.1220	0.0996
5	3.63	t-Butanol	148774	0.9629	0.7859
6	4.44	n-Propanol	201226	1.0000	0.8162

13-15-100 57 RLM

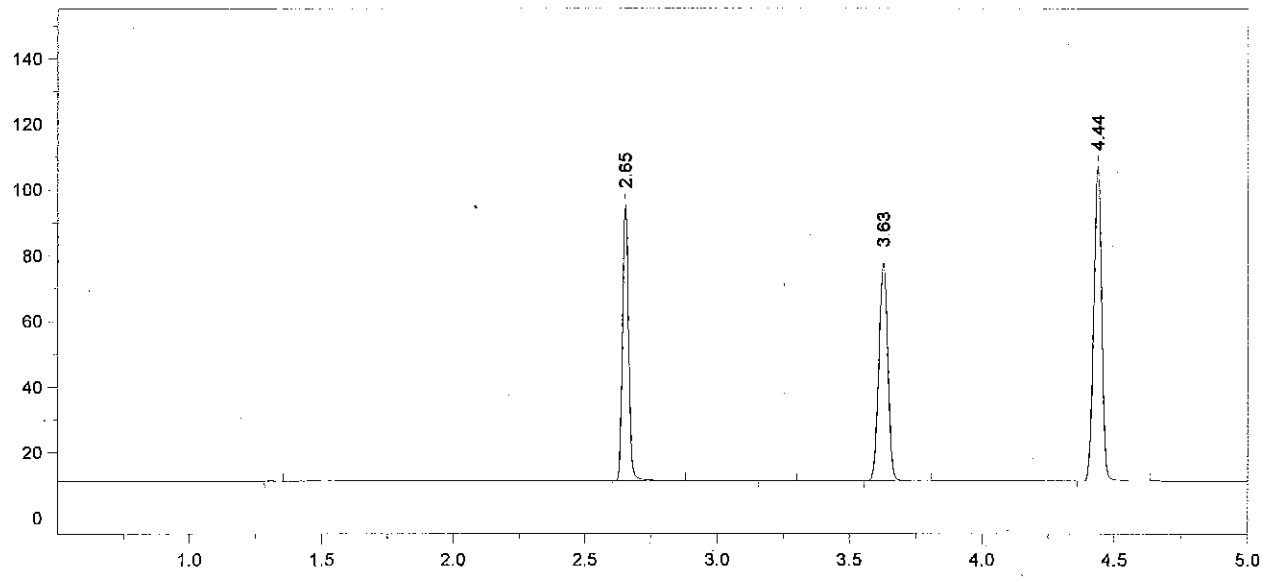


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013
Today's Time = 9:20:47 PM
Bound File Name = VFL08142013.0020.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 9:20:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	132238	0.1189	0.0970
5	3.63	t-Butanol	165788	1.0175	0.8304
6	4.44	n-Propanol	212216	1.0000	0.8162

13-15-100 58 RLM

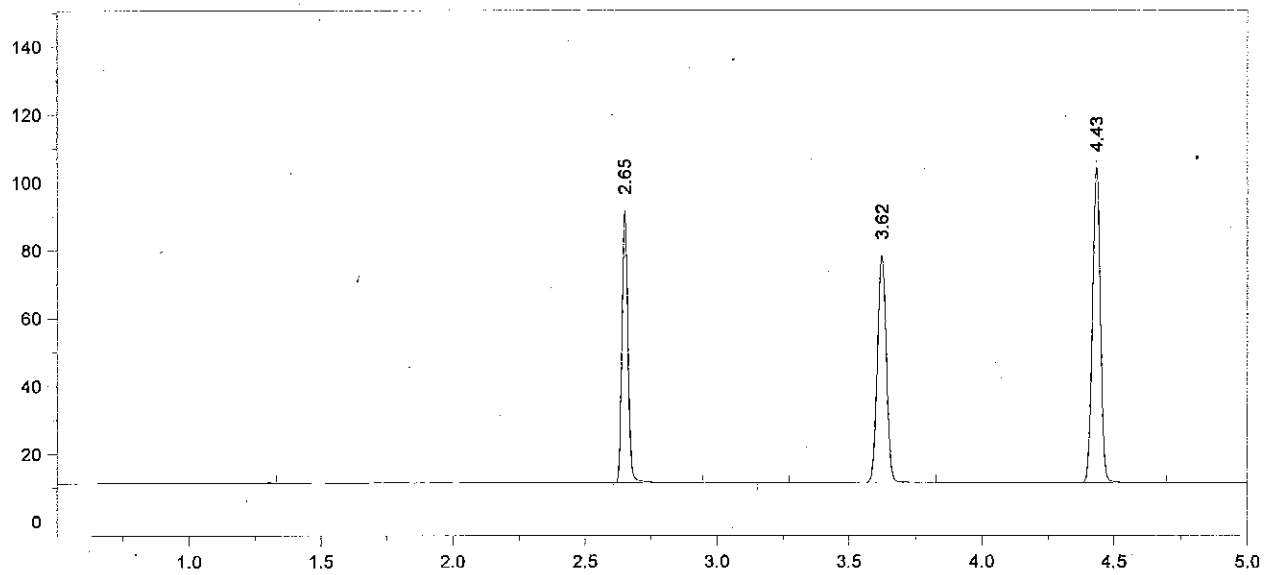


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 9:35:02 PM
Bound File Name = VFL08142013.0021.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 9:34:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	130778	0.1222	0.0997
5	3.63	t-Butanol	154082	0.9828	0.8022
6	4.44	n-Propanol	204189	1.0000	0.8162

13-15-100 59 RLM

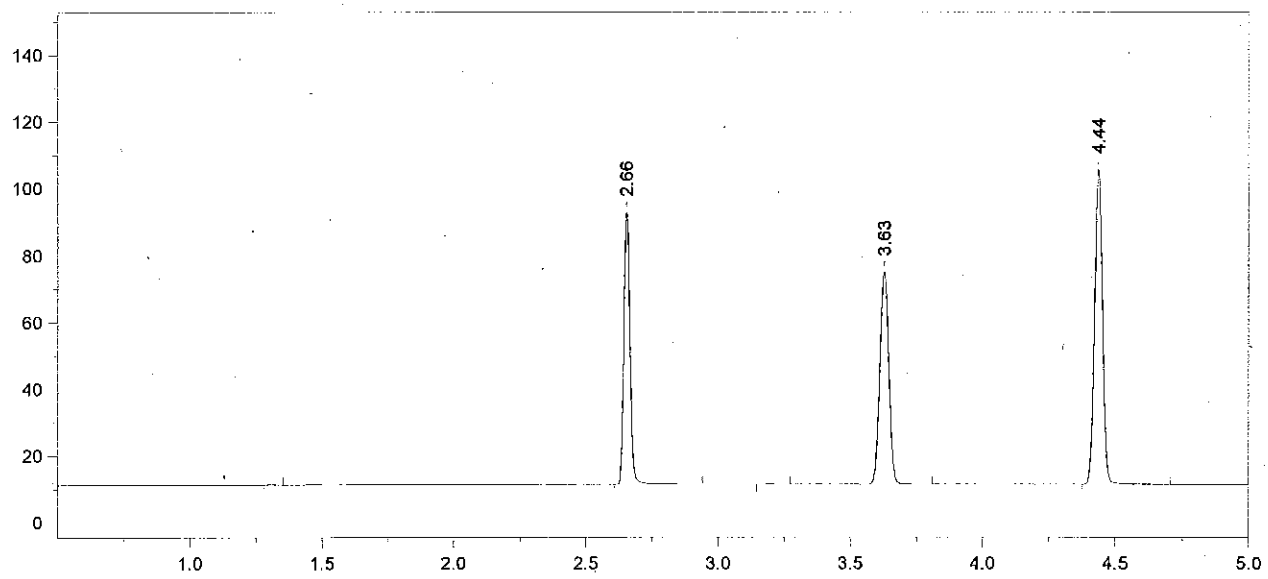


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 9:52:14 PM
Bound File Name = VFL08142013.0022.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 9:52:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	124785	0.1198	0.0978
5	3.62	t-Butanol	154925	1.0155	0.8288
6	4.43	n-Propanol	198698	1.0000	0.8162

13-15-100 60 RLM

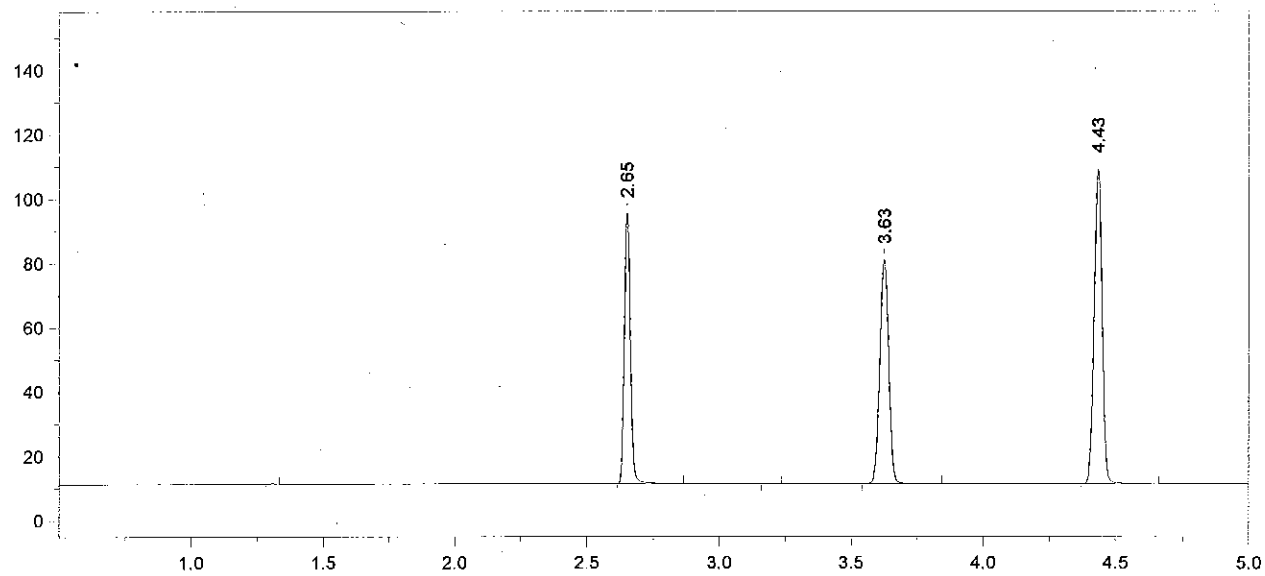


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013
Today's Time = 10:05:59 PM
Bound File Name = VFL08142013.0023.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 10:05:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	128433	0.1225	0.1000
5	3.63	t-Butanol	147787	0.9626	0.7857
6	4.44	n-Propanol	199957	1.0000	0.8162

13-15-100 61 RLM

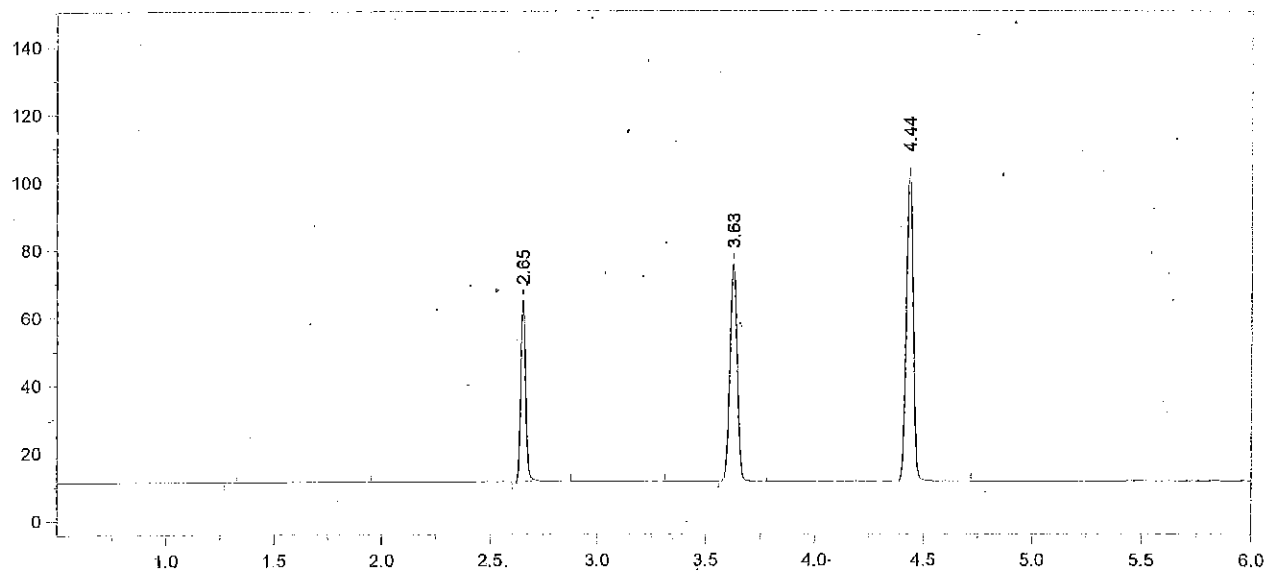


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 10:23:40 PM
Bound File Name = VFL08142013.0024.RAW
Sample Name = RLM 0.1
Date Taken = 8/14/2013 10:23:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	131390	0.1204	0.0983
5	3.63	t-Butanol	161681	1.0115	0.8256
6	4.43	n-Propanol	208167	1.0000	0.8162

13-15-100 62 RLM

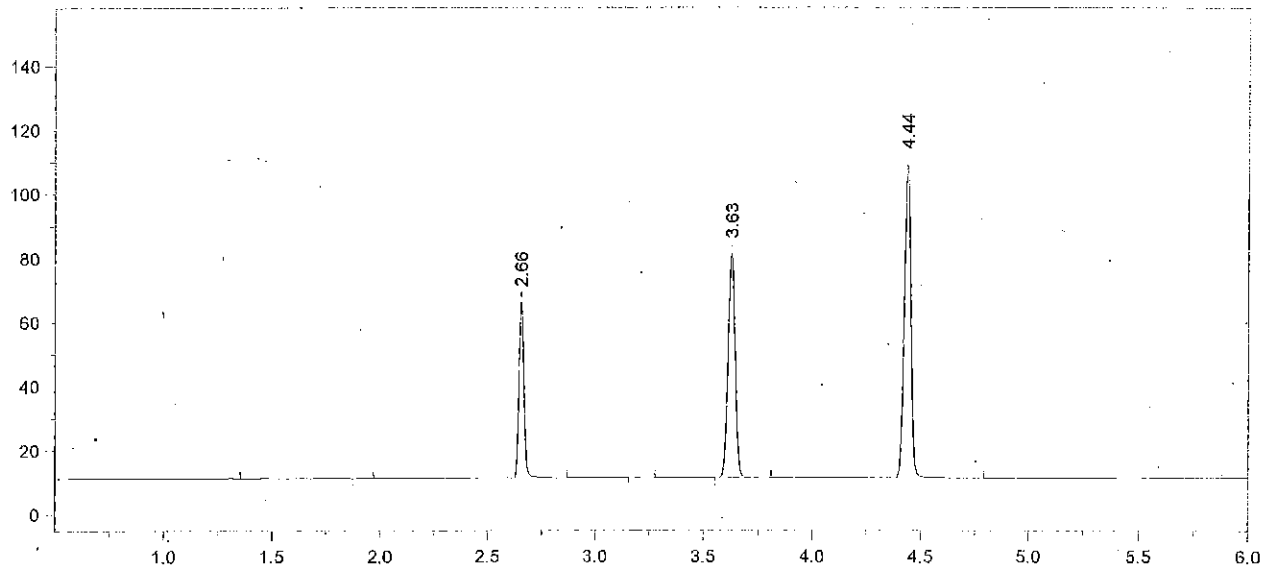


Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 10:37:21 PM
Bound File Name = VFL08142013.0025.RAW
Sample Name = CCS
Date Taken = 8/14/2013 10:37:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	83615	0.0806 *
6	3.63	t-Butanol	148610	0.9776
7	4.44	n-Propanol	197979	1.0000

13-15-100 63 RKm



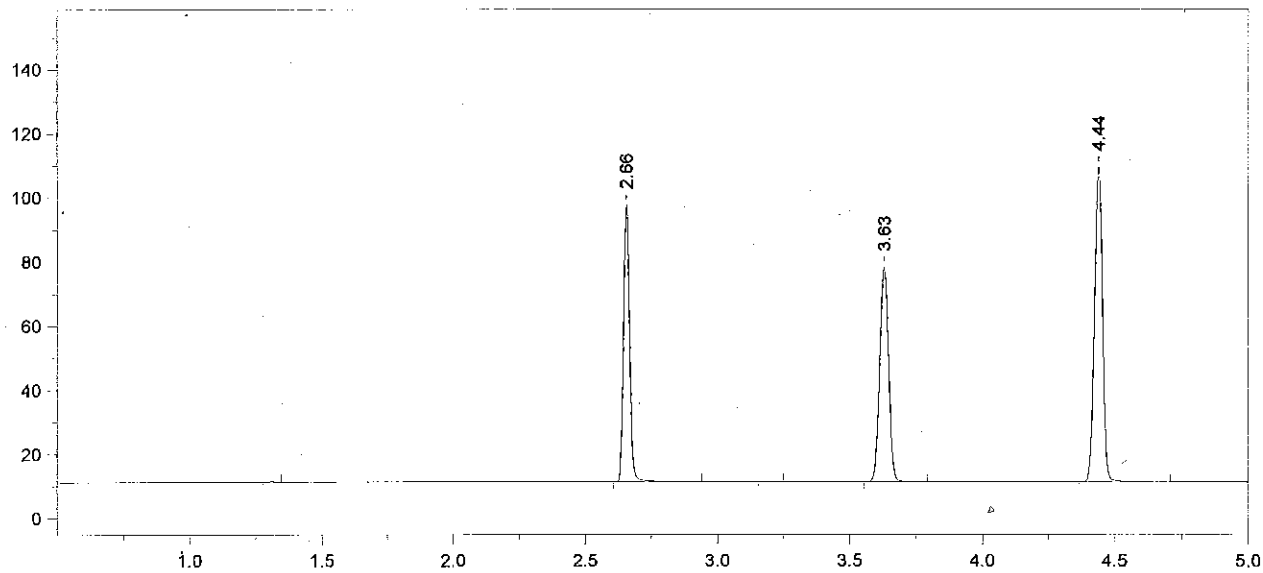
Format File Name = AlcoholVFL.FMT

Today's Date = 8/14/2013
Today's Time = 10:55:09 PM
Bound File Name = VFL08142013.0026.RAW
Sample Name = CCS
Date Taken = 8/14/2013 10:54:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	86132	0.0786 *
6	3.63	t-Butanol	162279	1.0106
7	4.44	n-Propanol	209134	1.0000

Avg #25 + #26 = 0.079
RLM 8/15/13

13-15-100 64 RLM



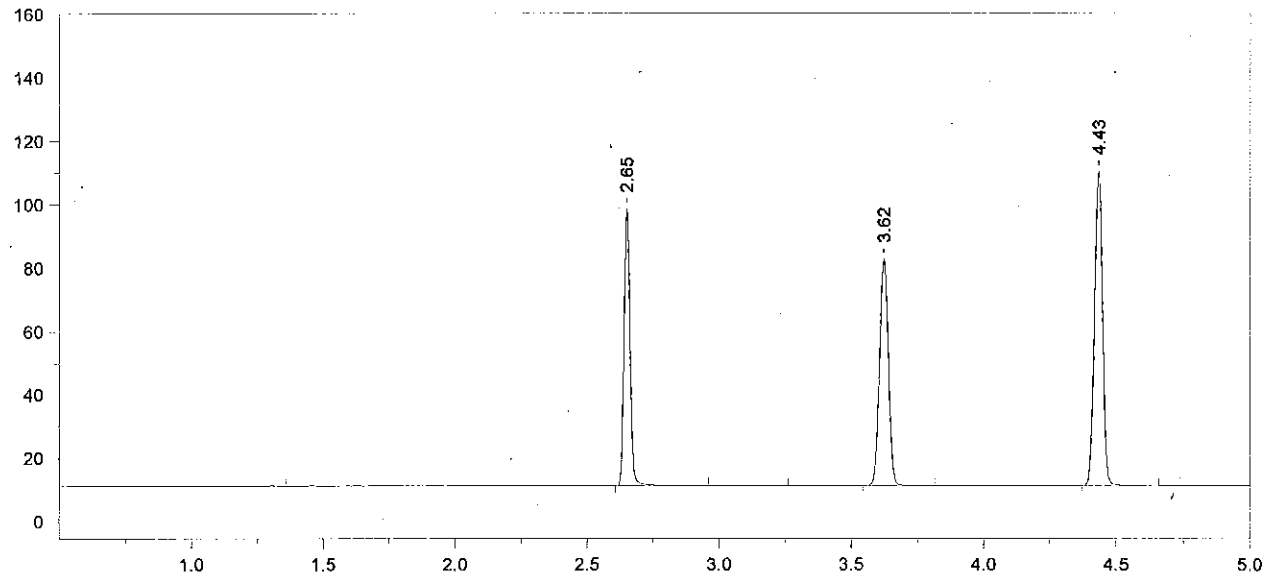
Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 11:08:50 PM
Bound File Name = VFL08142013.0027.RAW
Sample Name = ALB 0.1
Date Taken = 8/14/2013 11:08:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	134993	0.1228	0.1002
5	3.63	t-Butanol	155155	0.9634	0.7863
6	4.44	n-Propanol	209747	1.0000	0.8162

13-15-100 65 RLM

Chrom Perfect Chromatogram Report

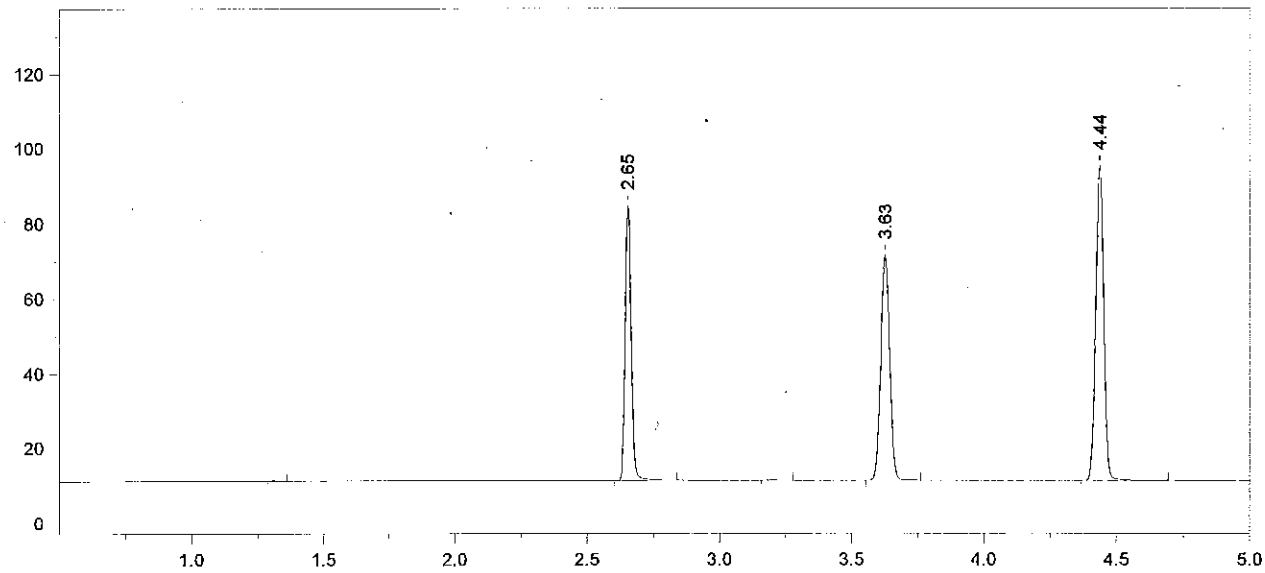


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 11:26:29 PM
Bound File Name = VFL08142013.0028.RAW
Sample Name = ALB 0.1
Date Taken = 8/14/2013 11:26:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	135885	0.1220	0.0996
5	3.62	t-Butanol	165900	1.0168	0.8299
6	4.43	n-Propanol	212487	1.0000	0.8162

13-15-100 66 RLM

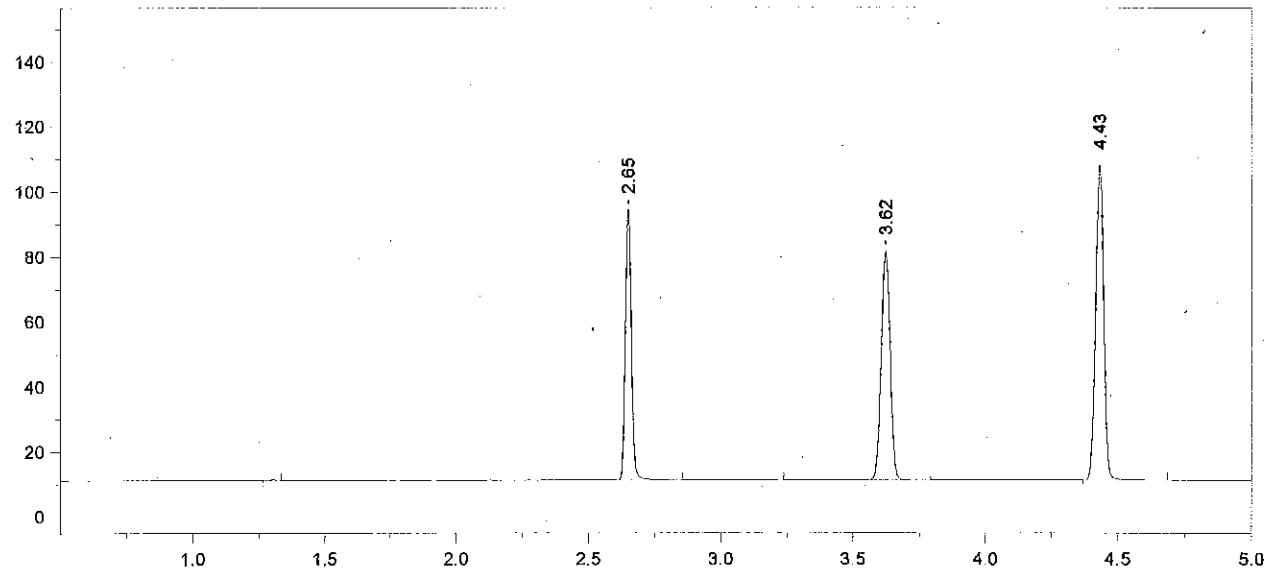


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013 Today's Time = 11:41:22 PM
Bound File Name = VFL08142013.0029.RAW
Sample Name = ALB 0.1
Date Taken = 8/14/2013 11:41:15 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	113693	0.1213	0.0990
5	3.63	t-Butanol	139154	1.0137	0.8274
6	4.44	n-Propanol	178776	1.0000	0.8162

13-15-100 67 [illegible]

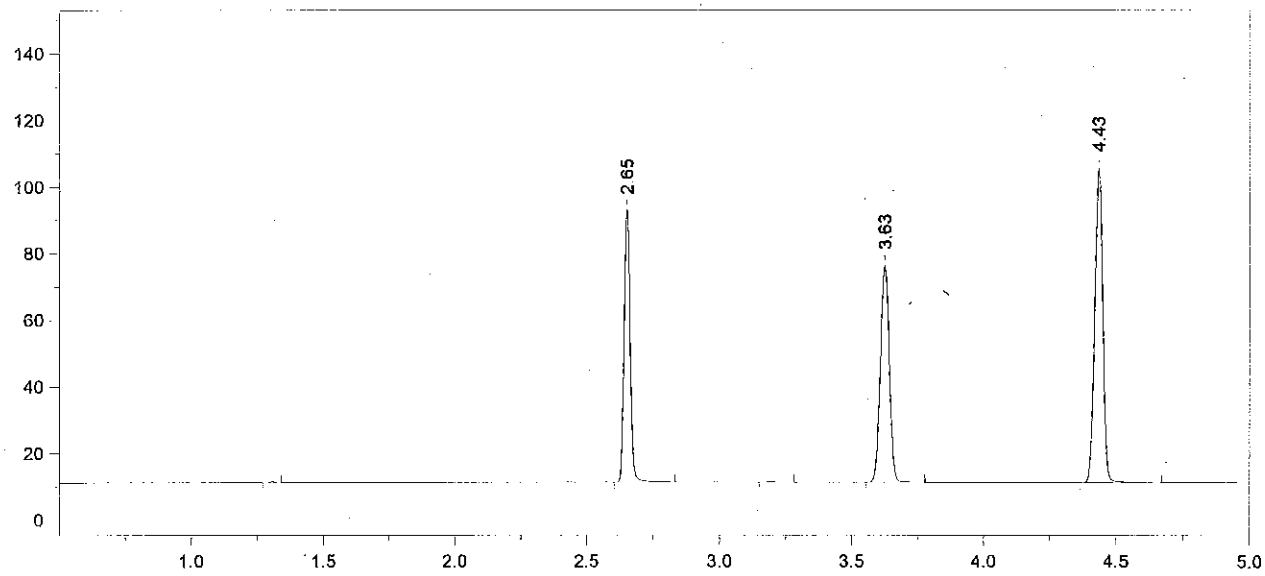


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/14/2013
Today's Time = 11:57:55 PM
Bound File Name = VFL08142013.0030.RAW
Sample Name = ALB 0.1
Date Taken = 8/14/2013 11:57:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129156	0.1192	0.0973
5	3.62	t-Butanol	163218	1.0287	0.8396
6	4.43	n-Propanol	206642	1.0000	0.8162

13-15-100 68 RLM

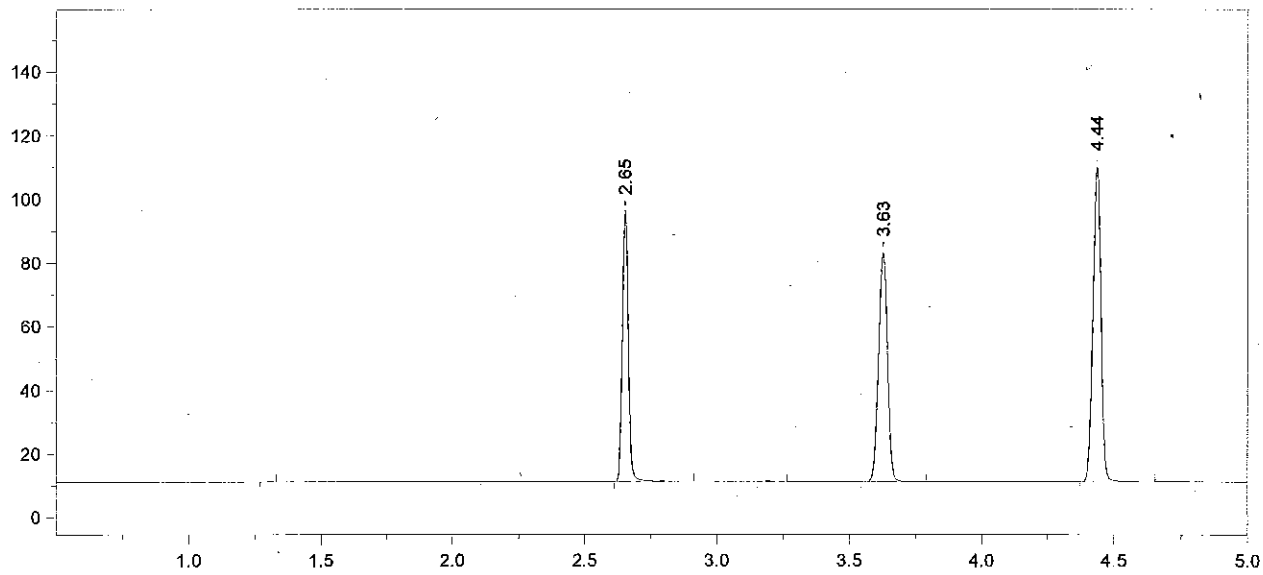


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/15/2013 Today's Time = 12:11:38 AM
Bound File Name = VFL08142013.0031.RAW
Sample Name = ALB 0.1
Date Taken = 8/15/2013 12:11:31 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128271	0.1217	0.0993
5	3.63	t-Butanol	151176	0.9790	0.7991
6	4.43	n-Propanol	201108	1.0000	0.8162

13-15-100 69 RZM

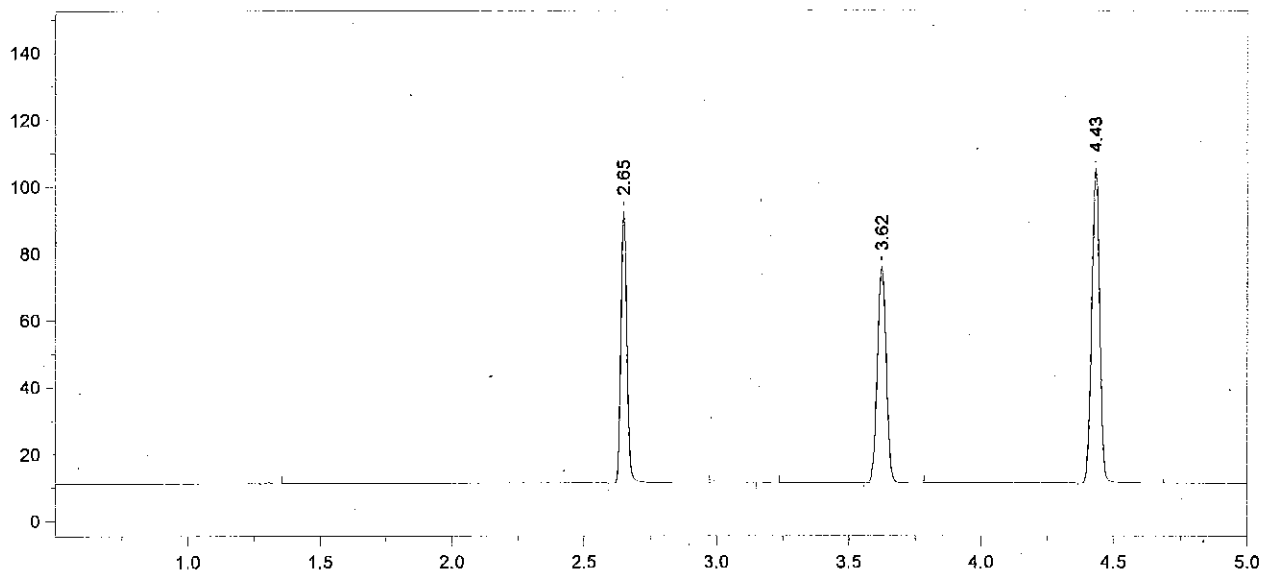


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/15/2013 Today's Time = 12:29:23 AM
Bound File Name = VFL08142013.0032.RAW
Sample Name = ALB 0.1
Date Taken = 8/15/2013 12:29:15 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	132159	0.1196	0.0976
5	3.63	t-Butanol	166832	1.0308	0.8413
6	4.44	n-Propanol	210796	1.0000	0.8162

13-15-100 70 RZM

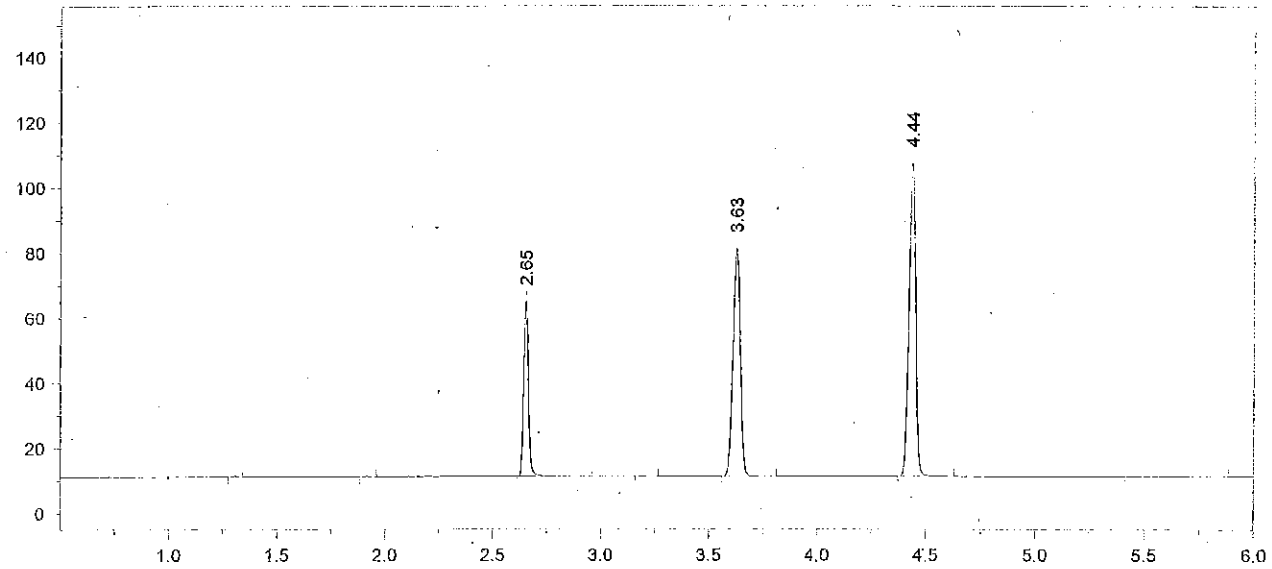


Format File Name = simsoln-JFH.met.FMT

Today's Date = 8/15/2013 Today's Time = 12:43:12 AM
Bound File Name = VFL08142013.0033.RAW
Sample Name = ALB 0.1
Date Taken = 8/15/2013 12:43:06 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL08142013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	126622	0.1206	0.0984
5	3.62	t-Butanol	150069	0.9756	0.7963
6	4.43	n-Propanol	200331	1.0000	0.8162

13-15-100 71 RLM

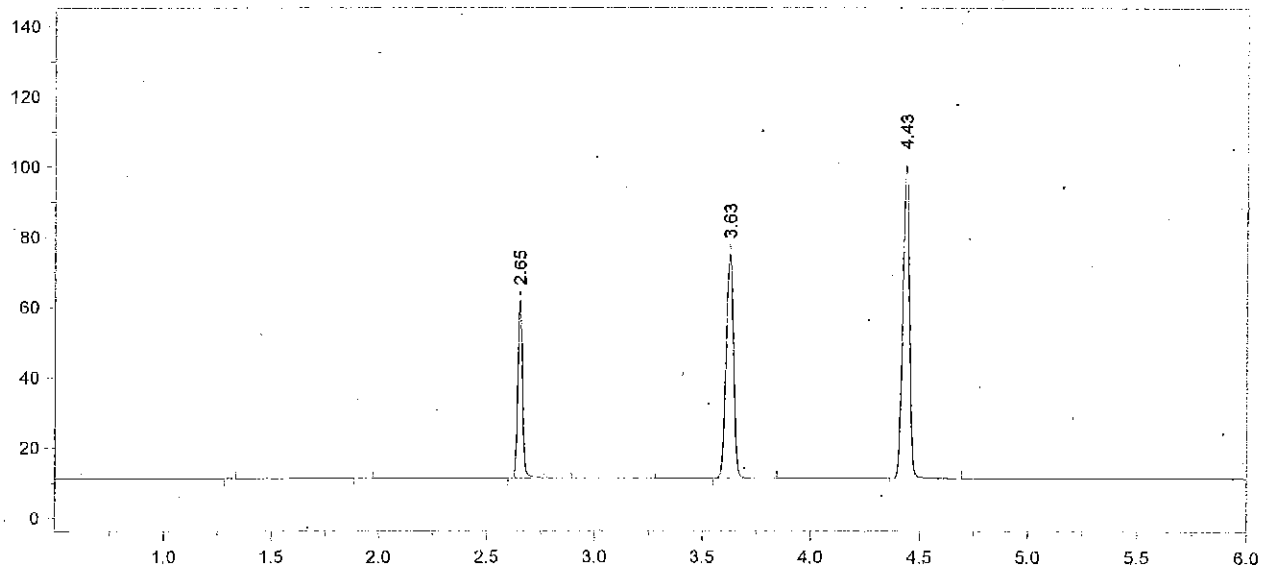


Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 1:00:48 AM
Bound File Name = VFL08142013.0034.RAW
Sample Name = CCS
Date Taken = 8/15/2013 1:00:42 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	84626	0.0785
6	3.63	t-Butanol	162686	1.0301
7	4.44	n-Propanol	205690	1.0000

13-15-100 72 RRM



Format File Name = AlcoholVFL.FMT

Today's Date = 8/15/2013
Today's Time = 1:15:43 AM
Bound File Name = VFL08142013.0035.RAW
Sample Name = CCS
Date Taken = 8/15/2013 1:15:35 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL08142013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	79852	0.0799
6	3.63	t-Butanol	147947	1.0102
7	4.43	n-Propanol	190737	1.0000

Avg #34 + #35 = 0.079
RLM 8/15/13

13-15-100 73 RLM