VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 3/12/2014, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 14-02-100 and an expiration date of 3/12/2015.

On 3/12/2014 and 3/20/2014, the solution was analyzed against calibration VFL03122014 and SIM03202014. 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 0.097 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Friday, March 21, 2014.

Rebecca Mead

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION
~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST
RLM 3/21/14

LOT #
~~AGENCY CASE#~~: 14-02-100 RLM 3/21/14 **ANALYST:** RLM
LAB #: N/A

TECHNICAL REVIEWER: [signature] **DATE:** 3/24/14

- [x] QC complete?
- [x] Pertinent standard lot numbers listed?
- [x] Data package is complete?
- [x] Transcribed data and calculations verified?
- [x] Calibration and control results all within ± 10% (± 20% for STD A) of the known values?
- [x] Calibration line correlation factor at least 0.99xx?
- [x] Average error for components of the calibration line less than 10%?
- [x] Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
- [x] Surrogate compound concentrations all within 0.900 to 1.100 range?
- [x] Statistical means of the continuing calibration check sample duplicate analysis all within ± 10% of the known value?
- [NA] Individual replicates within ± 5% of the statistical mean?
- [NA] Reported results are means of two or more analyses?
  1. In the event of QNS for 2 (two) analysis a notation must be made on the worksheet.
  2. In the event that more than 2 (two) results are used to determine the reported result a notation is made on the worksheet.

Comments:

ADMINISTRATIVE REVIEWER: [signature] **DATE:** 3/25/2014

- [NA] Agency Case # and Lab # match submission form?
- [NA] Submitting agency, investigator, suspect, CC match submission form?
- [NA] Chain of Custody is complete and dated appropriately?
- [X] Are all pages numbered and initialed on the Examination Documents?
- [X] Case number written on all pages of the case file (Either agency or lab #)?
- [NA] Is the exam end date documented in the paper case file consistent with the exam end date in LIMS?

Comments:

DIRECTOR REVIEWER: [signature] **DATE:** 3/25/2014

- [X] Does the report and associated paperwork meet administrative expectations?
- [X] Have the appropriate technical and administrative reviews been completed?

Check Mark or X = pass, NA= Not Applicable

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 External Standard 20L
Lot # 14-02-100
Prepared 3/12/2014 by ALB
Exp 3/12/2015

RLM CAL VFL03122014
RLM/ALB Vials
Analyzed on 3/12/2014

0.0973	rlm
0.0993	
0.0969	
0.0991	
0.0970	
0.0990	
0.0973	
0.0998	alb
0.0986	
0.1003	
0.0987	
0.1010	
0.0973	
0.1001	

Ave. =	0.0987
Std Dev. =	0.0013
Range =	0.0969-0.1010

RLM CAL SIM03202014
RLM/TLC Vials
Analyzed on 3/20/2014

0.0940	rlm
0.0961	
0.0942	
0.0959	
0.0940	
0.0964	
0.0929	
0.0994	tlc
0.0969	
0.0988	
0.0964	
0.0992	
0.0968	
0.0989	

Ave. =	0.0964
Std Dev. =	0.0021
Range =	0.0929-0.0994

Total Values from Both Runs

Average	Mean
0.0973	0.0929
0.0993	0.0940
0.0969	
0.0991	0.0942
0.0970	0.0959
0.0990	0.0961
0.0973	0.0964
0.0998	
0.0986	0.0968
0.1003	0.0969
0.0987	
0.1010	0.0970
0.0973	0.0973
0.1001	
0.0940	
0.0961	0.0986
0.0942	0.0987
0.0959	0.0988
0.0940	0.0989
0.0964	0.0990
0.0929	0.0991
0.0994	0.0992
0.0969	0.0993
0.0988	0.0994
0.0964	0.0998
0.0992	0.1001
0.0968	0.1003
0.0989	0.1010

Ave. =	0.0976
Avg Std Dev. =	0.0021
Mean =	0.0978
Mean Std Dev. =	0.0022
Range =	0.0929-0.1010
RPD =	8.30%

File Name: C:\Methods\VFL03122014.CAL
Version: 7

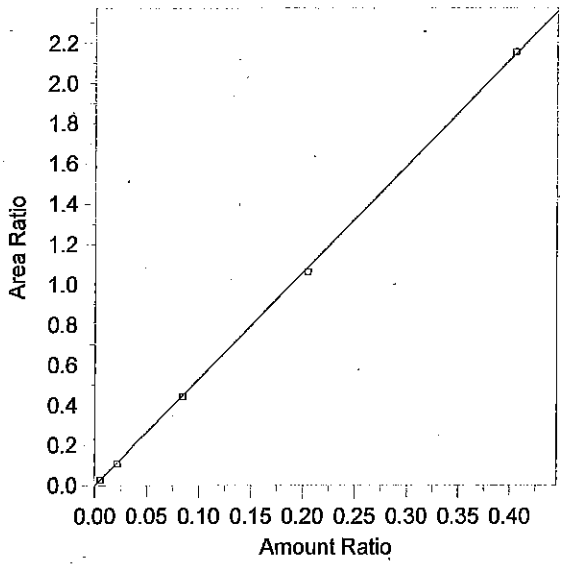
Creator:
Description:
Reason for change:

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 = 5.306594 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998193
Average error:	1.448%
Average CF:	5.259807
RSD:	1.603%

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	0.0053	5646.962	1065465	0.890	0.0053	2.837537E-02	C:\Alcohol Data\VFL03122014\VFL03122014.0003.BND	3/12/2014 4:02:28 PM
3	0.0211	21484.82	1018238	-2.881	0.0211	0.1087433	C:\Alcohol Data\VFL03122014\VFL03122014.0004.BND	3/12/2014 4:20:18 PM
4	0.0841	88544.71	1052850	-1.098	0.0841	0.4413853	C:\Alcohol Data\VFL03122014\VFL03122014.0005.BND	3/12/2014 4:34:01 PM
5	0.2043	230455.8	1128026	-1.845	0.2043	1.064132	C:\Alcohol Data\VFL03122014\VFL03122014.0006.BND	3/12/2014 4:51:45 PM
6	0.4047	436076.5	1077530	0.525	0.4047	2.158861	C:\Alcohol Data\VFL03122014\VFL03122014.0007.BND	3/12/2014 5:05:32 PM

14-02-100 2 RZM

File Name = C:\Alcohol Data\VFL03122014\VFL03122014.SEQ
Version = 2
File Date = 3/12/2014 2:56:20 PM

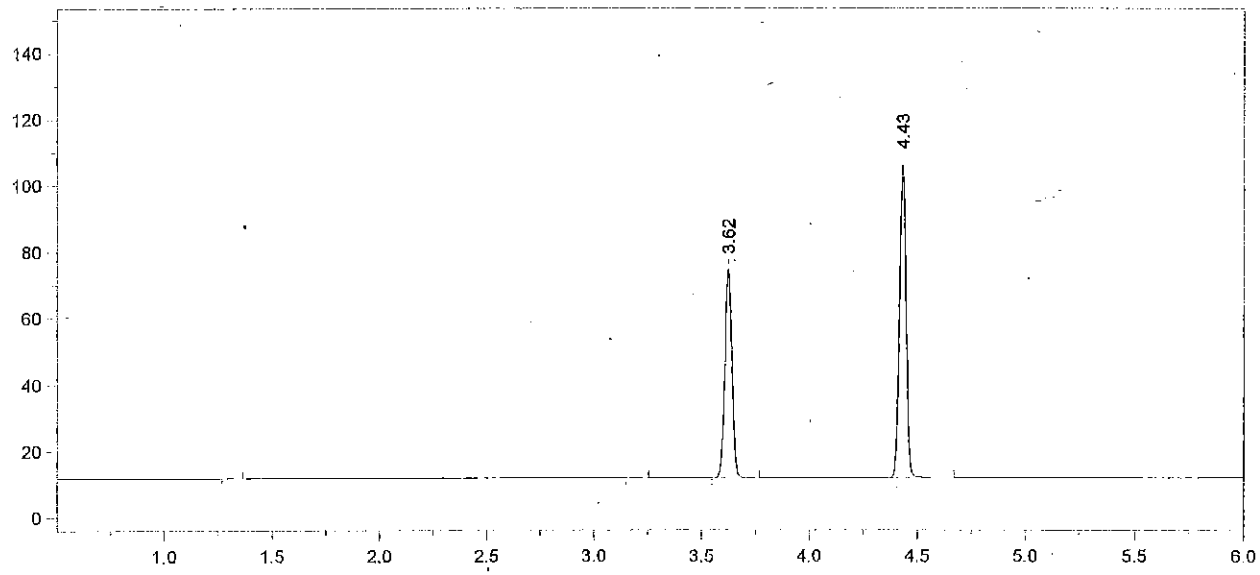
Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL03122014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL03122014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL03122014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL03122014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL03122014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL03122014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL03122014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL03122014.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL03122014.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL03122014.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL03122014.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL03122014.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL03122014.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL03122014.0014.raw	Blood Alc temp VFL.MET	V14-443 A1-1	1.00	1.00
15	VFL03122014.0015.raw	Blood Alc temp VFL.MET	V14-443 A1-1	1.00	1.00
16	VFL03122014.0016.raw	Blood Alc temp VFL.MET	V14-444 A1-1	1.00	1.00
17	VFL03122014.0017.raw	Blood Alc temp VFL.MET	V14-444 A1-1	1.00	1.00
18	VFL03122014.0018.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
19	VFL03122014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	VFL03122014.0020.raw	simsoln.met	0.1 RLM	1.00	1.00
21	VFL03122014.0021.raw	simsoln.met	0.1 RLM	1.00	1.00
22	VFL03122014.0022.raw	simsoln.met	0.1 RLM	1.00	1.00
23	VFL03122014.0023.raw	simsoln.met	0.1 RLM	1.00	1.00
24	VFL03122014.0024.raw	simsoln.met	0.1 RLM	1.00	1.00
25	VFL03122014.0025.raw	simsoln.met	0.1 RLM	1.00	1.00
26	VFL03122014.0026.raw	simsoln.met	0.1 RLM	1.00	1.00
27	VFL03122014.0027.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
28	VFL03122014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	VFL03122014.0029.raw	simsoln.met	0.1 ALB	1.00	1.00
30	VFL03122014.0030.raw	simsoln.met	0.1 ALB	1.00	1.00
31	VFL03122014.0031.raw	simsoln.met	0.1 ALB	1.00	1.00
32	VFL03122014.0032.raw	simsoln.met	0.1 ALB	1.00	1.00
33	VFL03122014.0033.raw	simsoln.met	0.1 ALB	1.00	1.00
34	VFL03122014.0034.raw	simsoln.met	0.1 ALB	1.00	1.00
35	VFL03122014.0035.raw	simsoln.met	0.1 ALB	1.00	1.00
36	VFL03122014.0036.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
37	VFL03122014.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

case samples not included
RLM 3/14/14

Lot #s:
ES: ES-12202013
IS: IS-10312013
TMX: ~~0~~ TMX-08122013
RLM 3/24/14

RLM 3/24/14

14-02-100 3 RLM

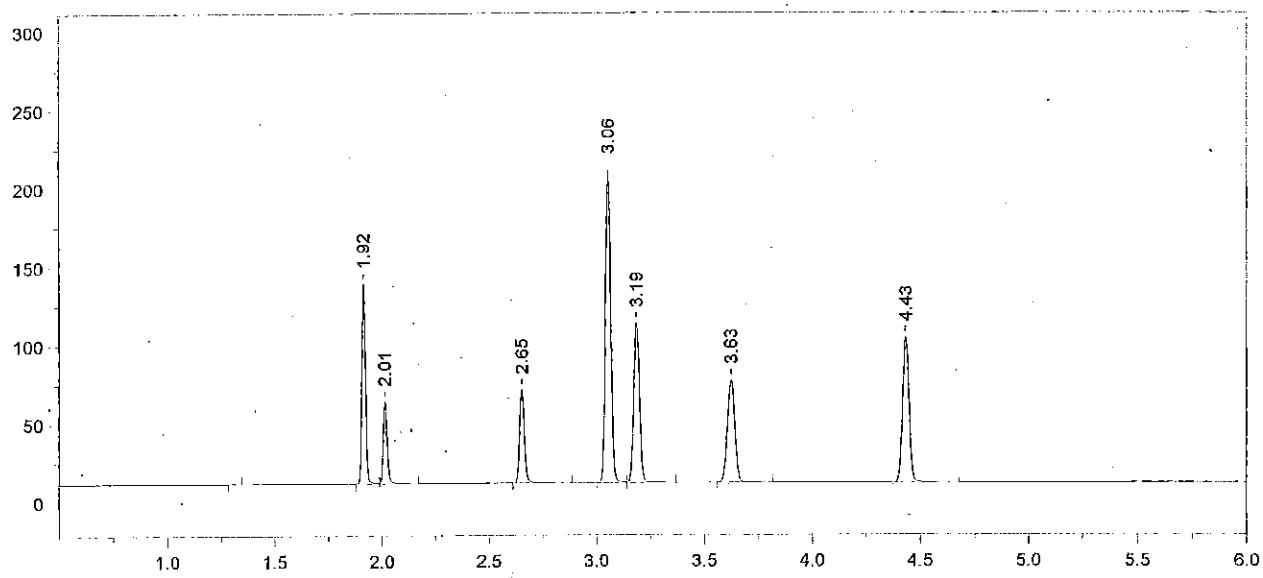


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 8:28:26 AM
Bound File Name = VFL03122014.0001.RAW
Sample Name = Blank
Date Taken = 3/12/2014 3:31:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.62	t-Butanol	145365	0.9633
4	4.43	n-Propanol	201439	1.0000

14-02-100 4

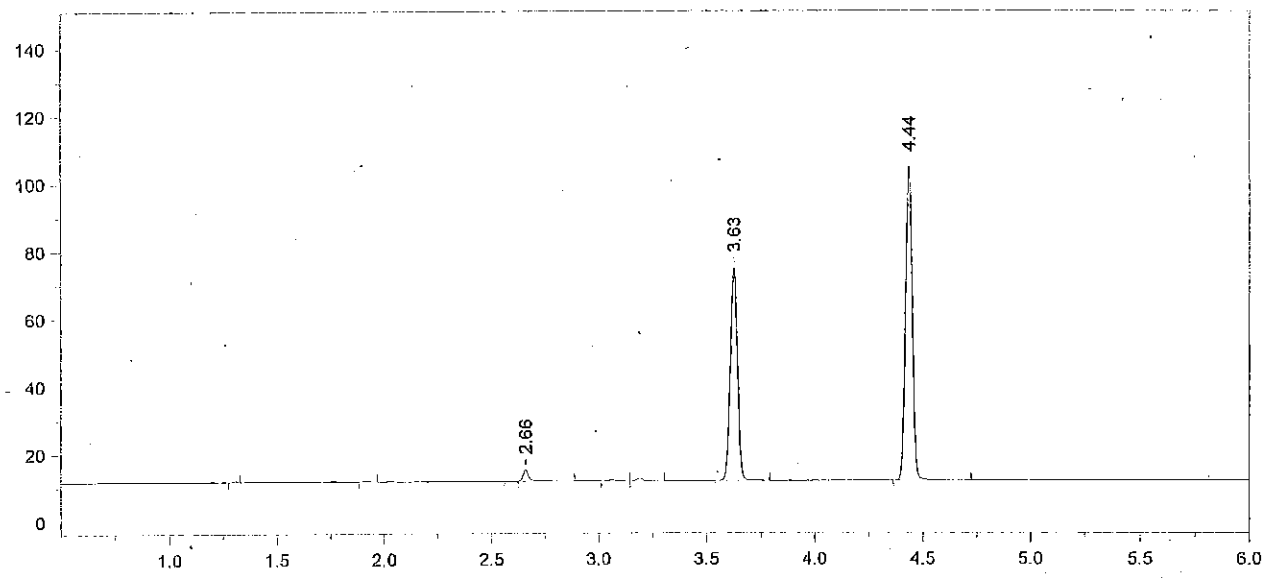


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 8:28:34 AM
Bound File Name = VFL03122014.0002.RAW
Sample Name = TMX
Date Taken = 3/12/2014 3:48:47 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	150826	0.0520
3	2.01	Methanol	67064	0.1370
4	2.65	Ethanol	92966	0.0889
5	3.06	Acetone	342939	0.0940
6	3.19	Isopropanol	192148	0.0850
7	3.63	t-Butanol	151863	1.0289
8	4.43	n-Propanol	197027	1.0000

14-02-100 5

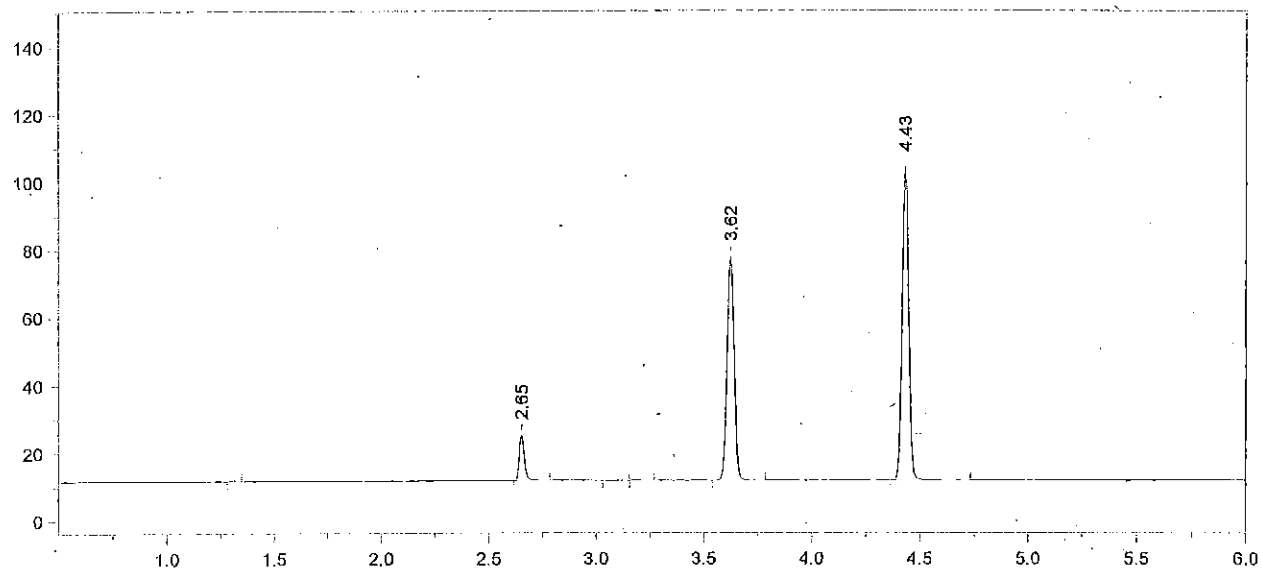


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 8:28:39 AM
Bound File Name = VFL03122014.0003.RAW
Sample Name = STD A
Date Taken = 3/12/2014 4:02:24 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05647	0.0053
6	3.63	t-Butanol	145851	0.9783
7	4.44	n-Propanol	199009	1.0000

14-02-100 6

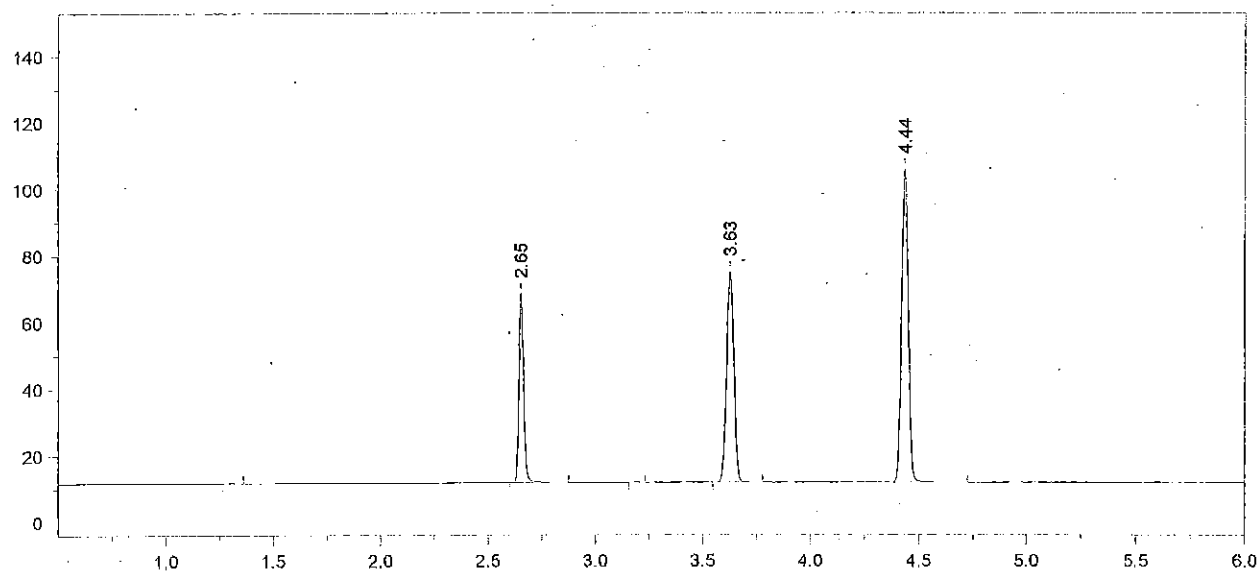


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 8:28:45 AM
Bound File Name = VFL03122014.0004.RAW
Sample Name = STD B
Date Taken = 3/12/2014 4:20:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	21485	0.0205*
5	3.62	t-Butanol	152508	1.0304
6	4.43	n-Propanol	197574	1.0000

14-02-100 7 KZm



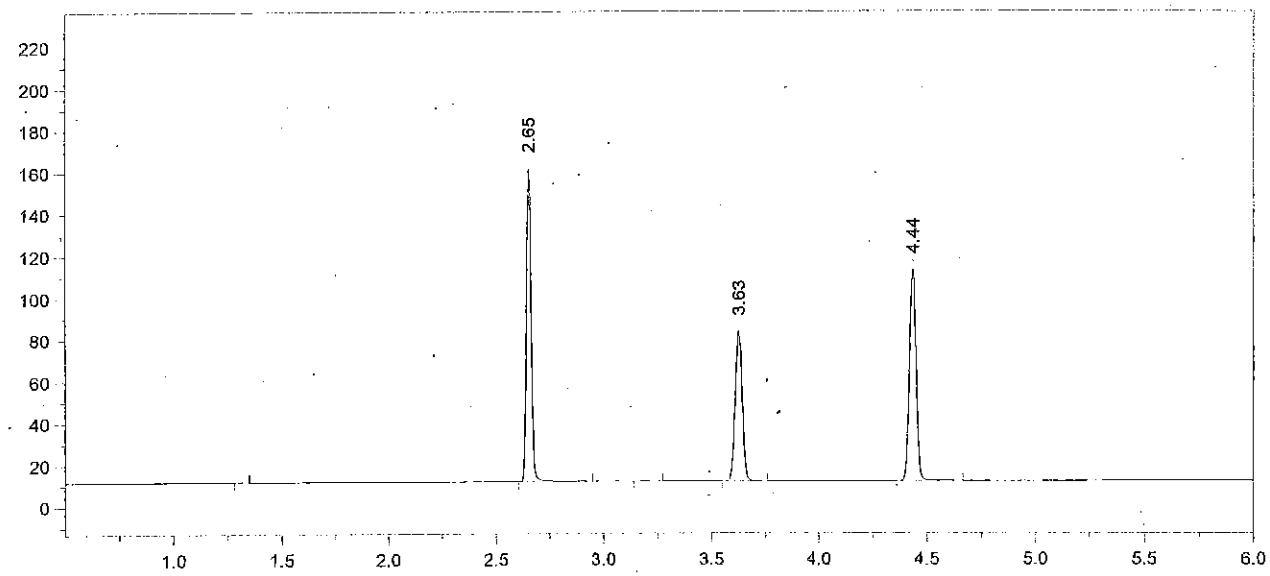
Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 8:28:54 AM
Bound File Name = VFL03122014.0005.RAW
Sample Name = STD C
Date Taken = 3/12/2014 4:33:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88545	0.0832 *
4	3.63	t-Butanol	146543	0.9751
5	4.44	n-Propanol	200606	1.0000

14-02-100

8

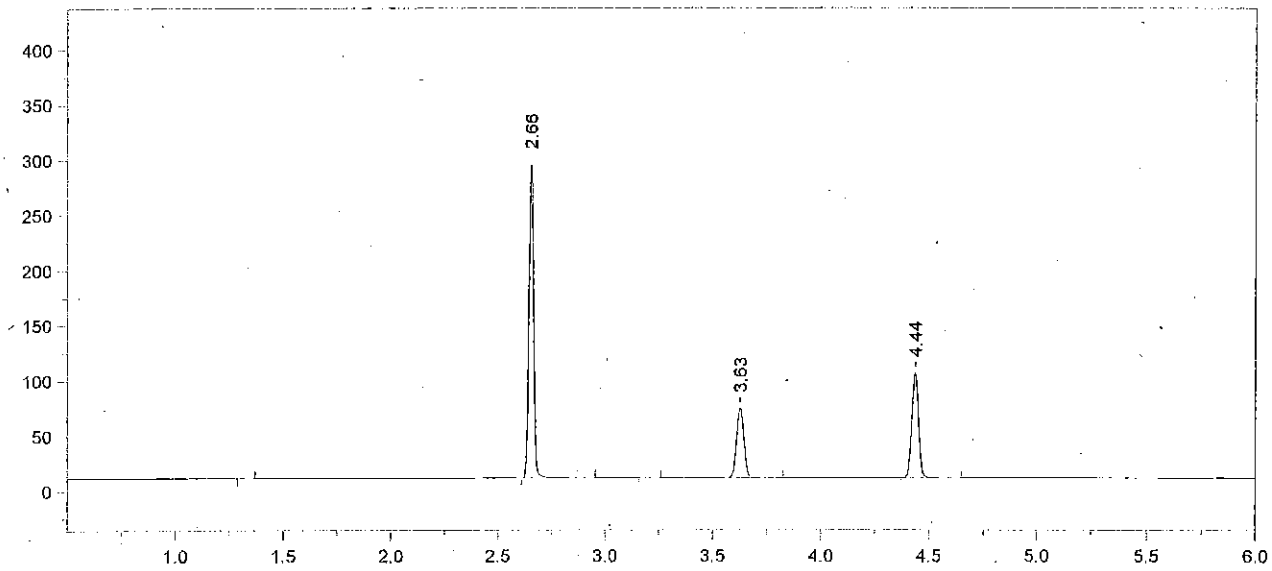


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 8:29:00 AM
Bound File Name = VFL03122014.0006.RAW
Sample Name = STD D
Date Taken = 3/12/2014 4:51:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	230456	0.2005*
4	3.63	t-Butanol	165195	1.0182
5	4.44	n-Propanol	216567	1.0000

14-02-100 9 tm

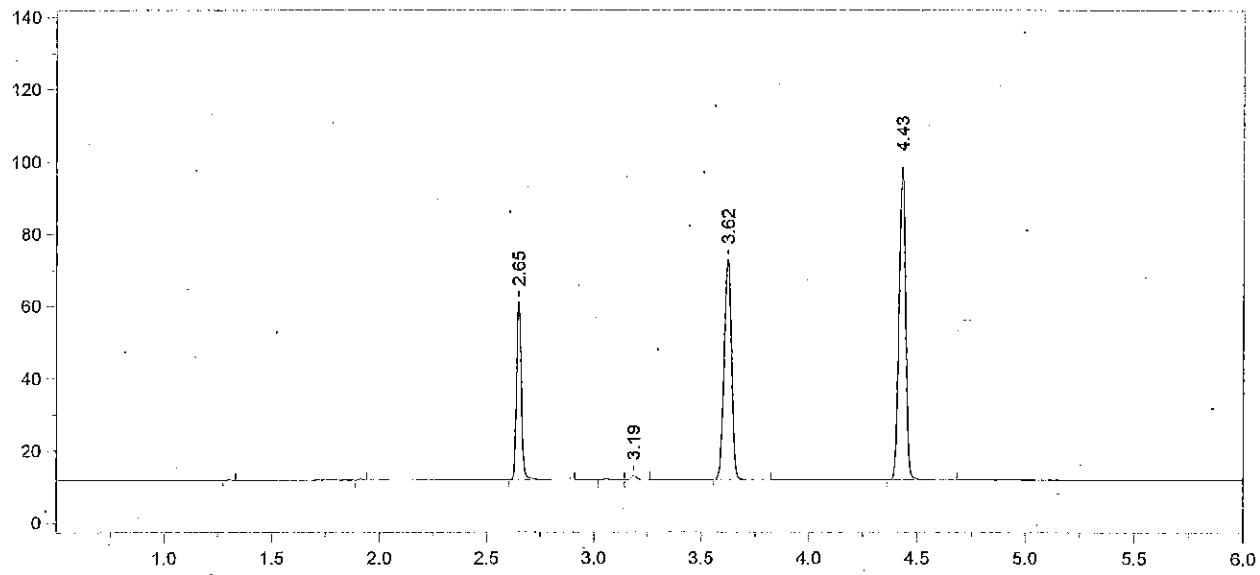


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014 Today's Time = 8:29:08 AM
Bound File Name = VFL03122014.0007.RAW
Sample Name = STD E
Date Taken = 3/12/2014 5:05:24 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	436077	0.4068
4	3.63	t-Butanol	146633	0.9690
5	4.44	n-Propanol	201994	1.0000

14-02-100 10

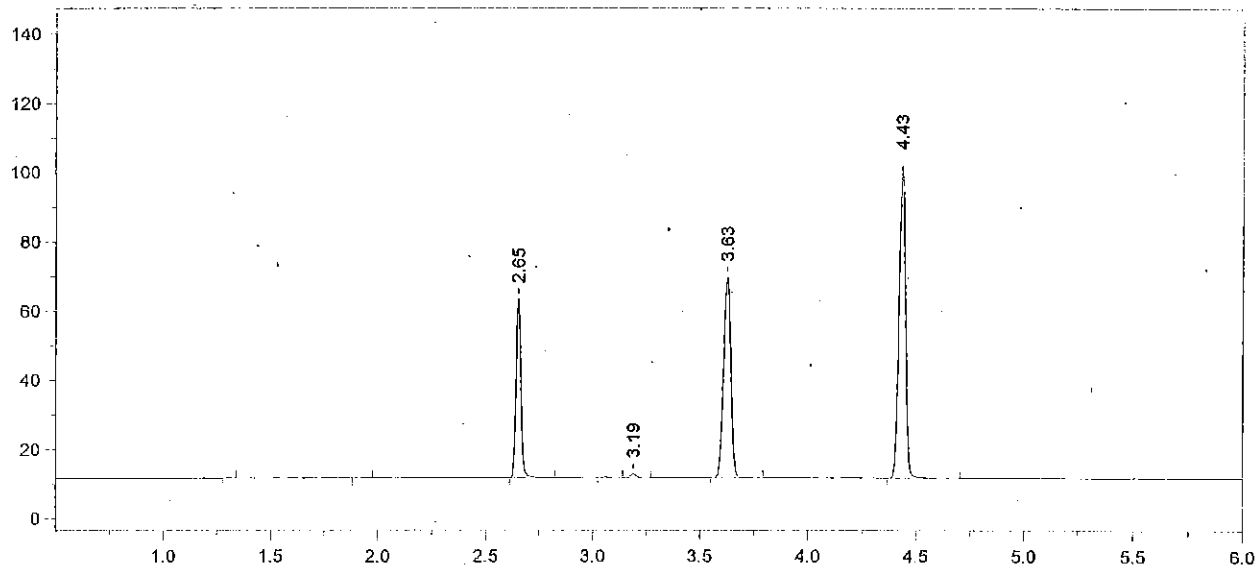


Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 5:23:05 PM
Bound File Name = VFL03122014.0008.RAW
Sample Name = WB
Date Taken = 3/12/2014 5:22:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	77194	0.0787 *
5	3.19	Isopropanol	02068	<0.004
6	3.62	t-Butanol	141115	1.0197
7	4.43	n-Propanol	184734	1.0000

14-02-100 11 TZM



Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014 Today's Time = 5:37:03 PM
Bound File Name = VFL03122014.0009.RAW
Sample Name = WB
Date Taken = 3/12/2014 5:36:56 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL Calibration Version = 7

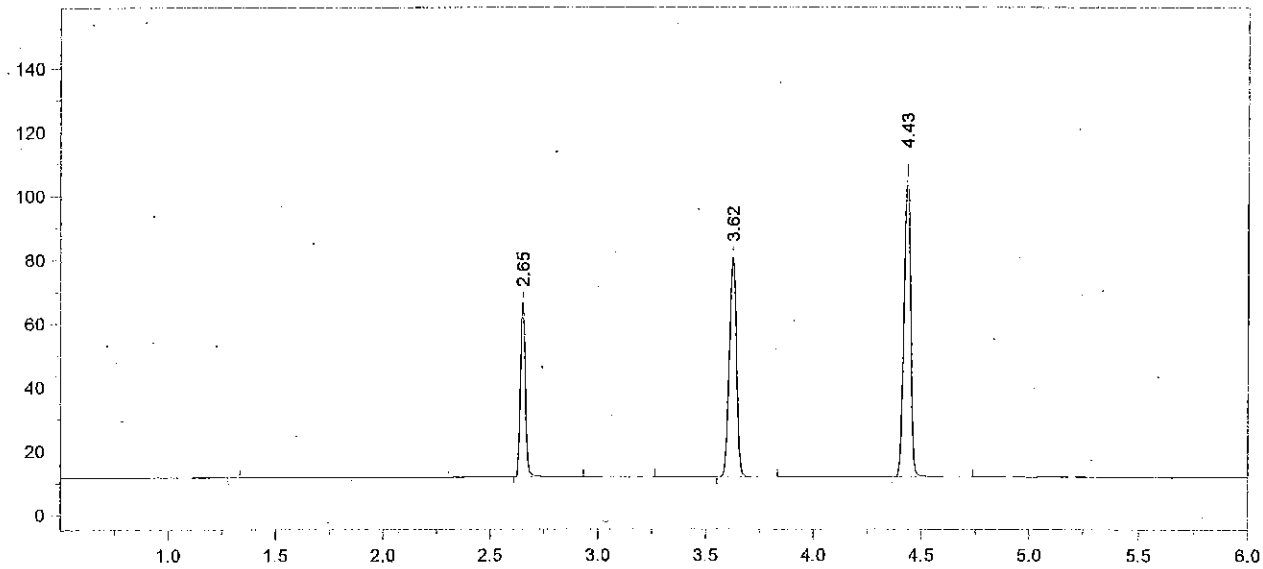
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	81458	0.0798
5	3.19	Isopropanol	02113	<0.004
6	3.63	t-Butanol	134765	0.9355
7	4.43	n-Propanol	192304	1.0000

Avg # 8 + #9 = 0.079
RLM 3/13/14

Target value: 0.078
% recovery = 101%
RLM 3/13/14

WB: Cliniqa 1212090
RLM 3/14/14

14-02-100 12 RLM

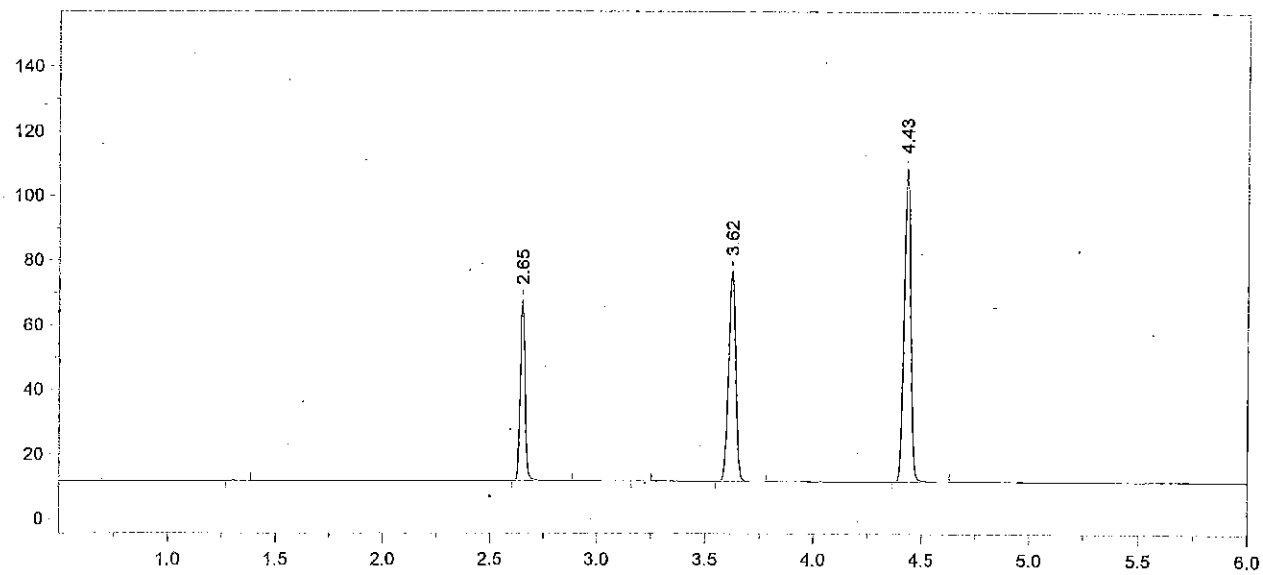


Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 5:54:32 PM
Bound File Name = VFL03122014.0010.RAW
Sample Name = AQ QC
Date Taken = 3/12/2014 5:54:23 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86300	0.0779
4	3.62	t-Butanol	160013	1.0234
5	4.43	n-Propanol	208716	1.0000

14-02-100 13



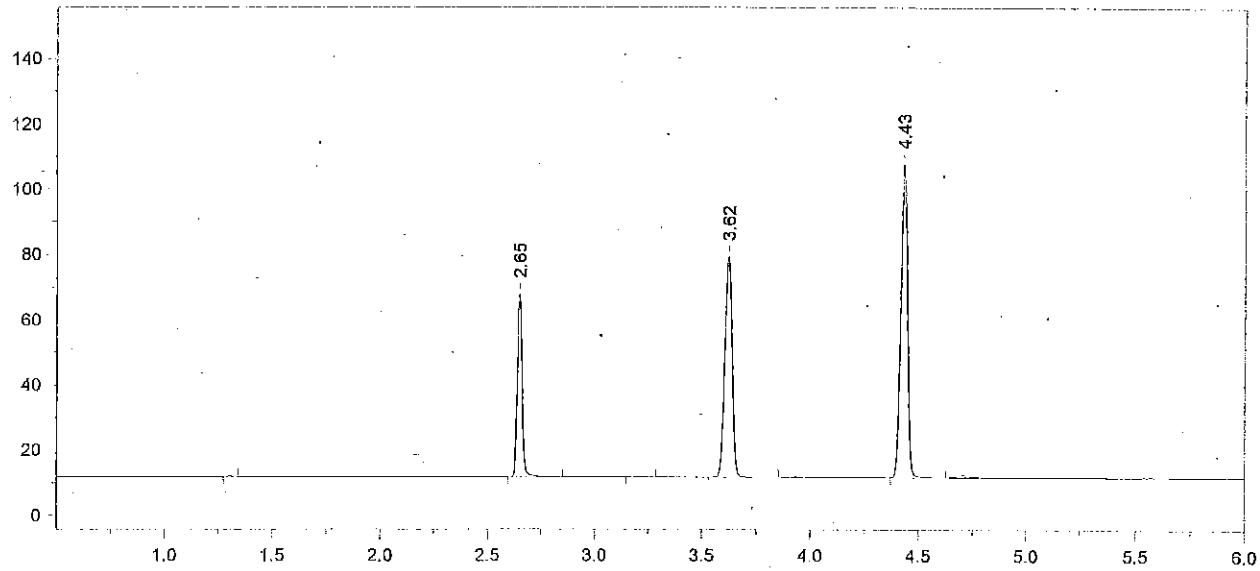
Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 6:08:17 PM
Bound File Name = VFL03122014.0011.RAW
Sample Name = AQ QC
Date Taken = 3/12/2014 6:08:11 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87408	0.0797 *
4	3.62	t-Butanol	150417	0.9719
5	4.43	n-Propanol	206584	1.0000

Avg #10 + #11 = 0.079
Target value: 0.080
Cerilliant FN021111-03
% recovery = 99%
RLM 3/13/14

14-02-100 14 RLM

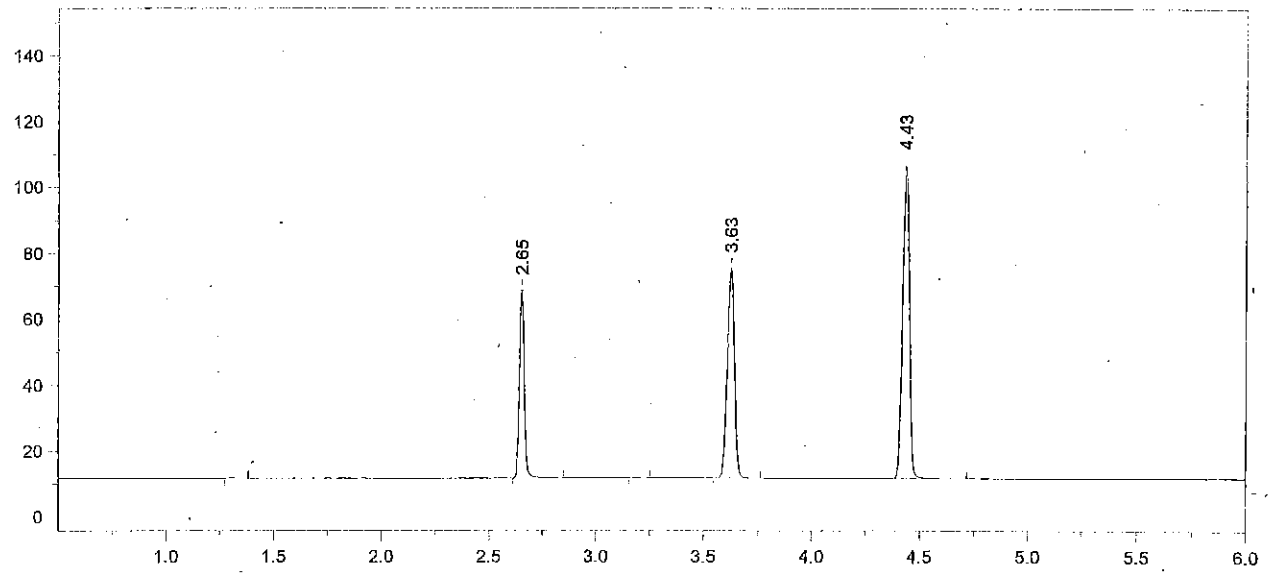


Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 6:26:00 PM
Bound File Name = VFL03122014.0012.RAW
Sample Name = CCS
Date Taken = 3/12/2014 6:25:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88105	0.0814 *
4	3.62	t-Butanol	157276	1.0294
5	4.43	n-Propanol	203945	1.0000

14-02-100 15 TLM



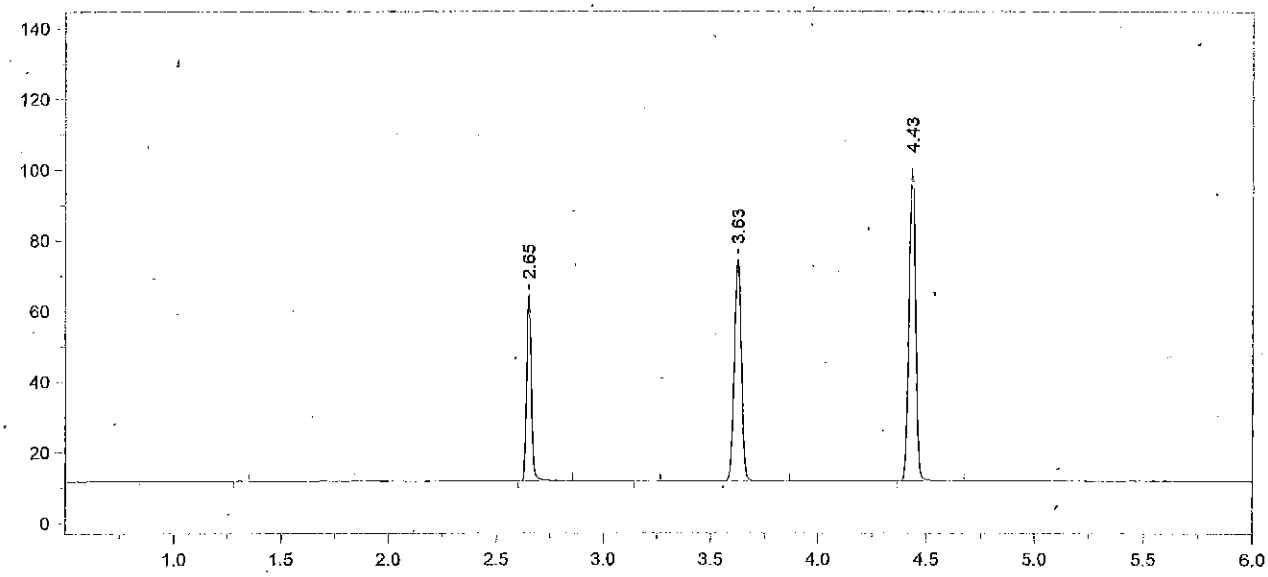
Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 6:39:52 PM
Bound File Name = VFL03122014.0013.RAW
Sample Name = CCS
Date Taken = 3/12/2014 6:39:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88624	0.0824 *
4	3.63	t-Butanol	147916	0.9741
5	4.43	n-Propanol	202705	1.0000

Avg #12 + #13 = 0.082
RZM 3/13/14

14-02-100 16 RZM

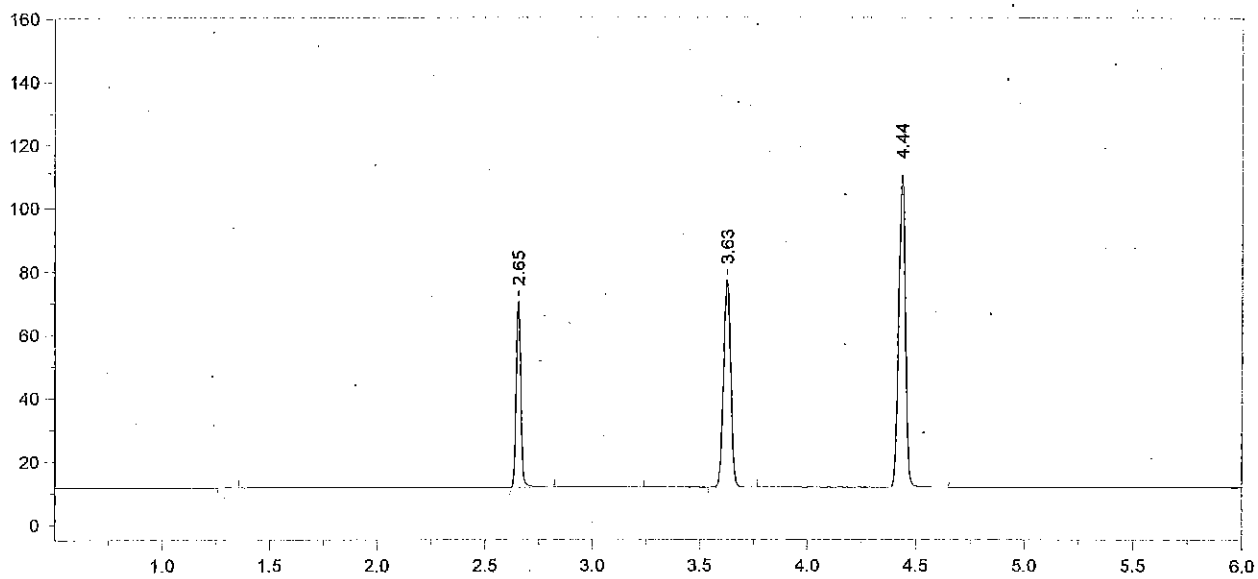


Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 7:58:45 PM
Bound File Name = VFL03122014.0018.RAW
Sample Name = CCS
Date Taken = 3/12/2014 7:58:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82455	0.0823 *
4	3.63	t-Butanol	145426	1.0288
5	4.43	n-Propanol	188700	1.0000

14-02-100 17 RM



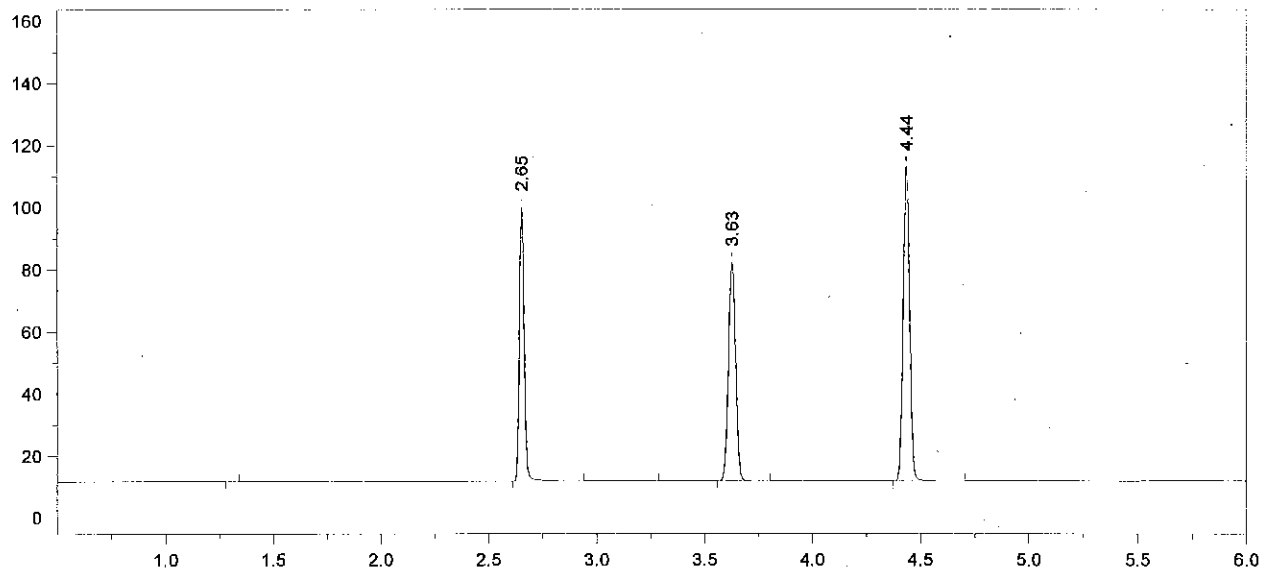
Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 8:14:02 PM
Bound File Name = VFL03122014.0019.RAW
Sample Name = CCS
Date Taken = 3/12/2014 8:13:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	91643	0.0822 *
4	3.63	t-Butanol	151570	0.9633
5	4.44	n-Propanol	210044	1.0000

Avg #18 + #19 = 0.082
RLM 3/13/14

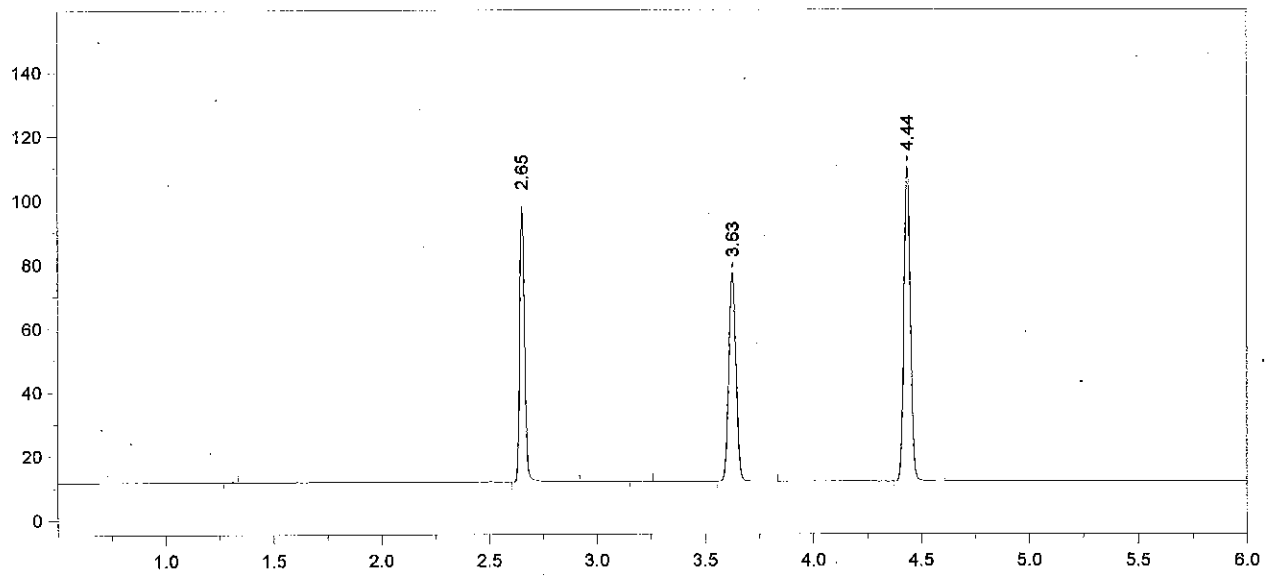
14-02-100 18 RLM



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014 Today's Time = 8:30:08 PM
Bound File Name = VFL03122014.0020.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 8:30:01 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	136388	0.1192	0.0973
4	3.63	t-Butanol	163504	1.0119	0.8259
5	4.44	n-Propanol	215695	1.0000	0.8162

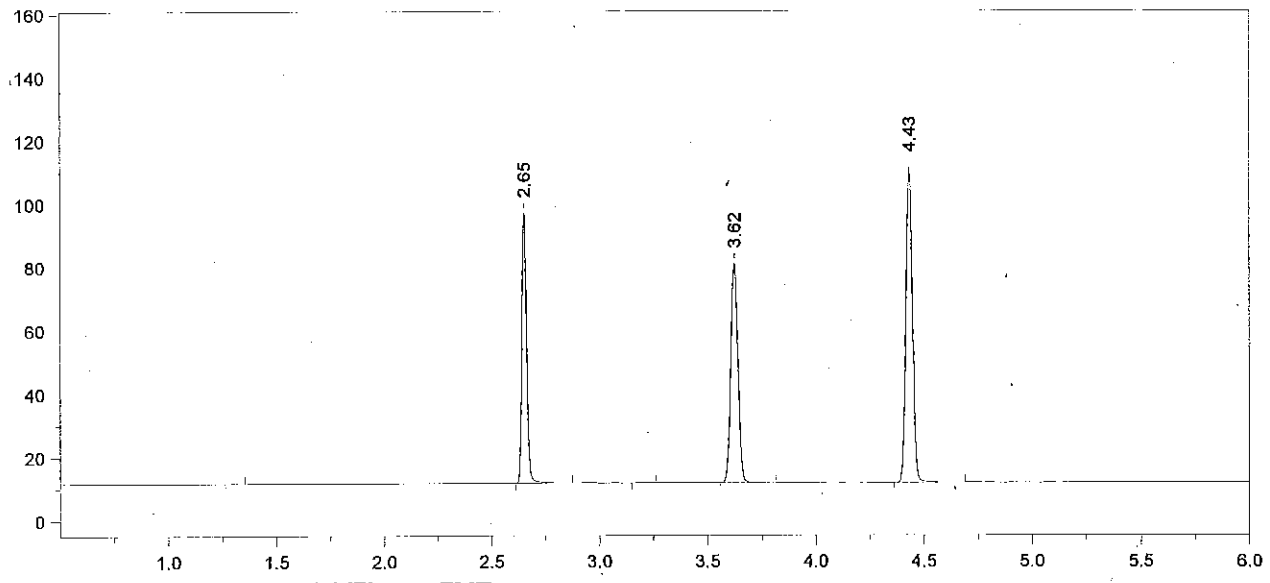


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 8:44:25 PM
Bound File Name = VFL03122014.0021.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 8:44:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	134304	0.1216	0.0993
4	3.63	t-Butanol	150755	0.9671	0.7893
5	4.44	n-Propanol	208095	1.0000	0.8162

14-02-100 20 ZLR

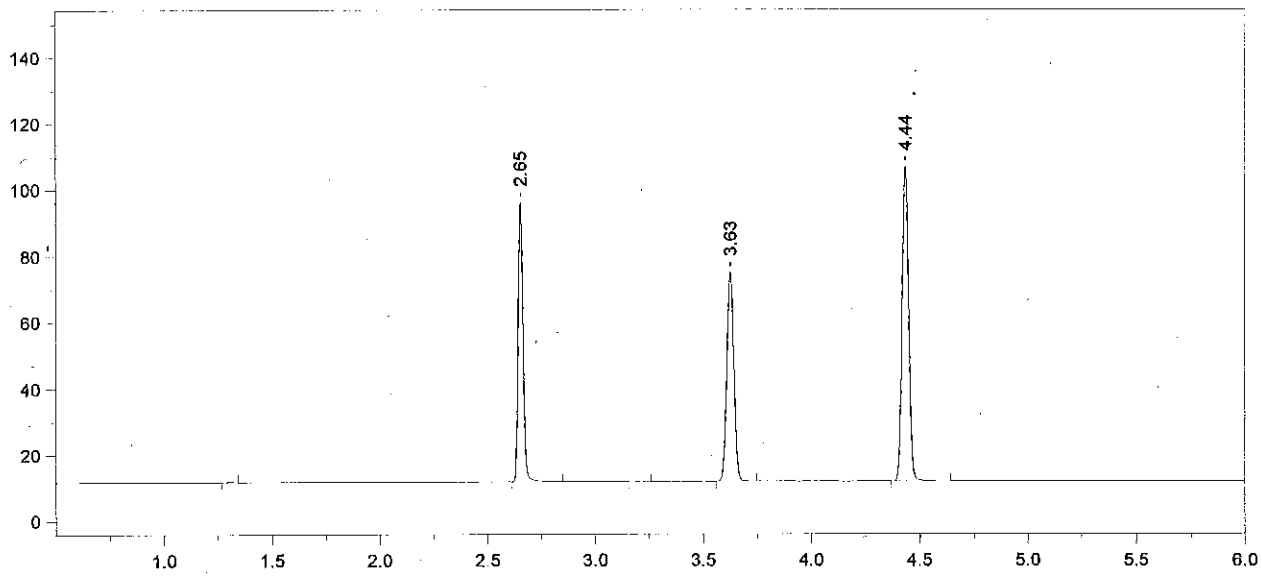


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 9:01:35 PM
Bound File Name = VFL03122014.0022.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 9:01:26 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	132934	0.1187	0.0969
4	3.62	t-Butanol	160853	1.0177	0.8306
5	4.43	n-Propanol	210995	1.0000	0.8162

14-02-100 21 RLM

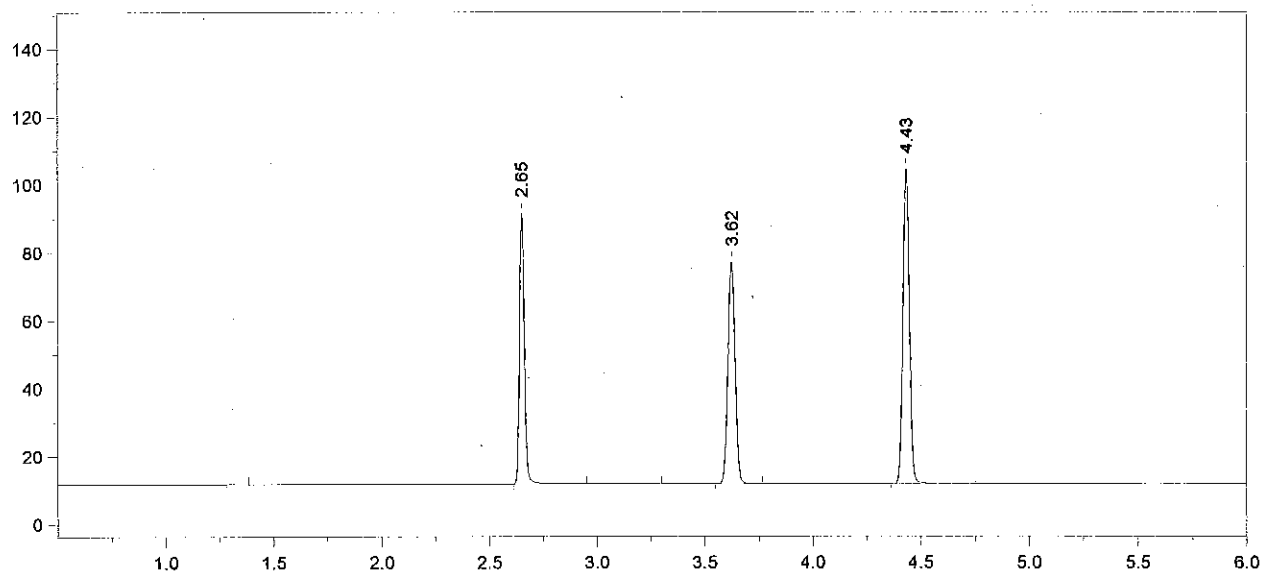


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 9:15:08 PM
Bound File Name = VFL03122014.0023.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 9:15:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130614	0.1215	0.0991
4	3.63	t-Butanol	145688	0.9598	0.7834
5	4.44	n-Propanol	202622	1.0000	0.8162

14-02-100 22 RLM

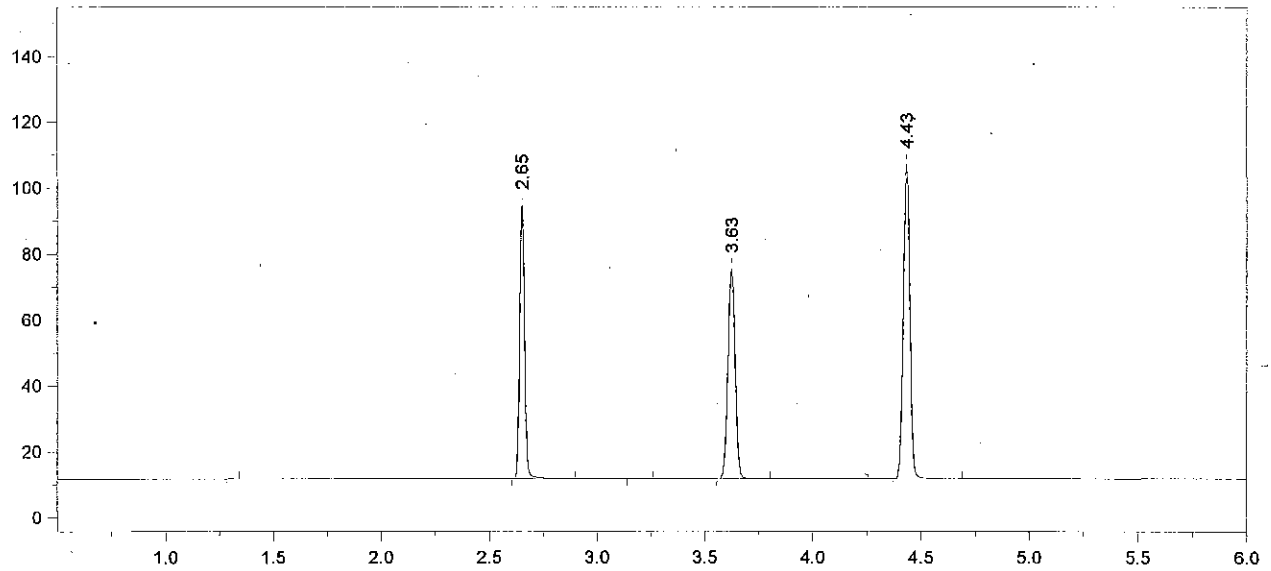


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 9:32:59 PM
Bound File Name = VFL03122014.0024.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 9:32:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124439	0.1189	0.0970
4	3.62	t-Butanol	151828	1.0275	0.8386
5	4.43	n-Propanol	197256	1.0000	0.8162

14-02-100 23 RLM

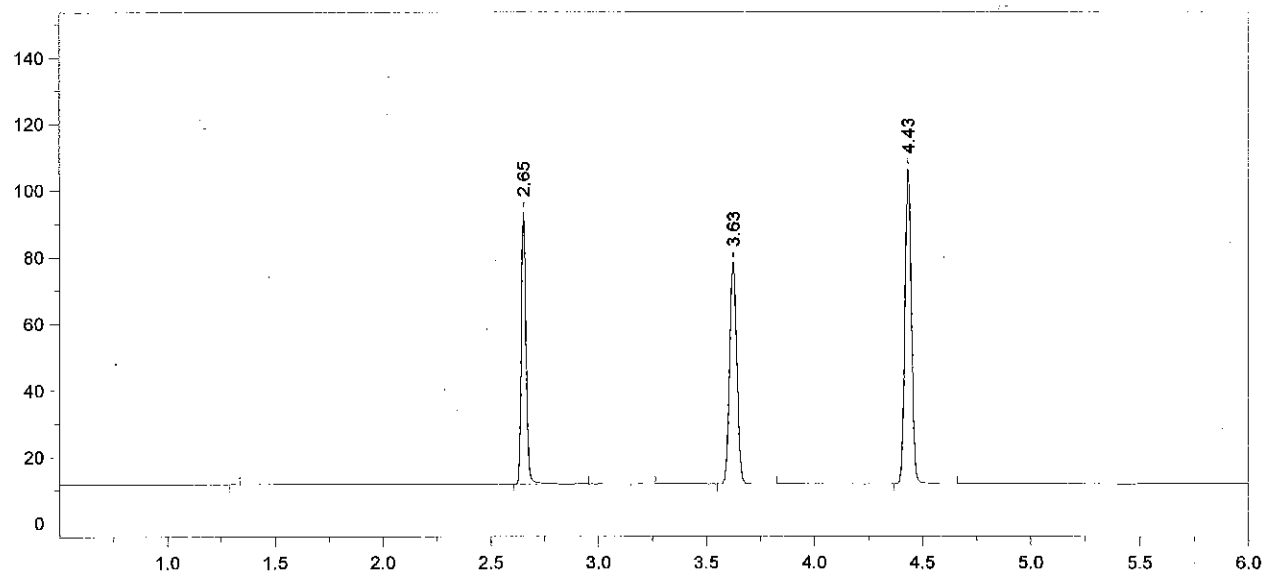


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014 Today's Time = 9:46:59 PM
Bound File Name = VFL03122014.0025.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 9:46:48 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130283	0.1213	0.0990
4	3.63	t-Butanol	147934	0.9753	0.7961
5	4.43	n-Propanol	202467	1.0000	0.8162

14-02-100 24 RZM

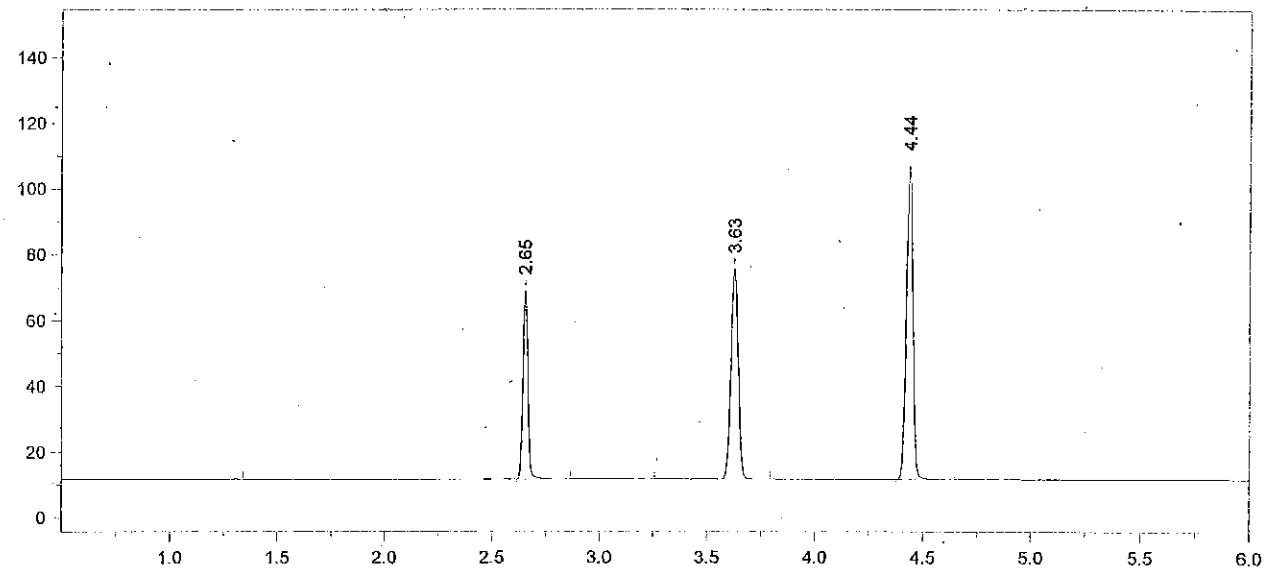


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 10:04:28 PM
Bound File Name = VFL03122014.0026.RAW
Sample Name = 0.1 RLM
Date Taken = 3/12/2014 10:04:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126821	0.1192	0.0973
4	3.63	t-Butanol	154377	1.0281	0.8392
5	4.43	n-Propanol	200438	1.0000	0.8162

14-02-100 25

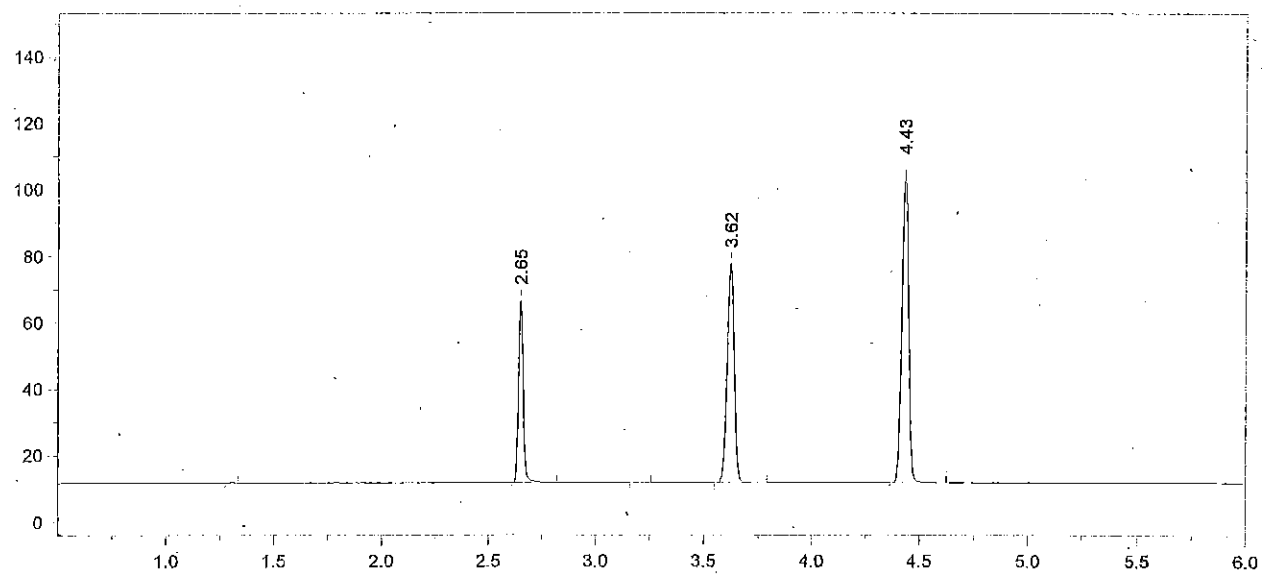


Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 10:18:14 PM
Bound File Name = VFL03122014.0027.RAW
Sample Name = CCS
Date Taken = 3/12/2014 10:18:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89521	0.0831*
4	3.63	t-Butanol	147714	0.9712
5	4.44	n-Propanol	203024	1.0000

14-02-100 26



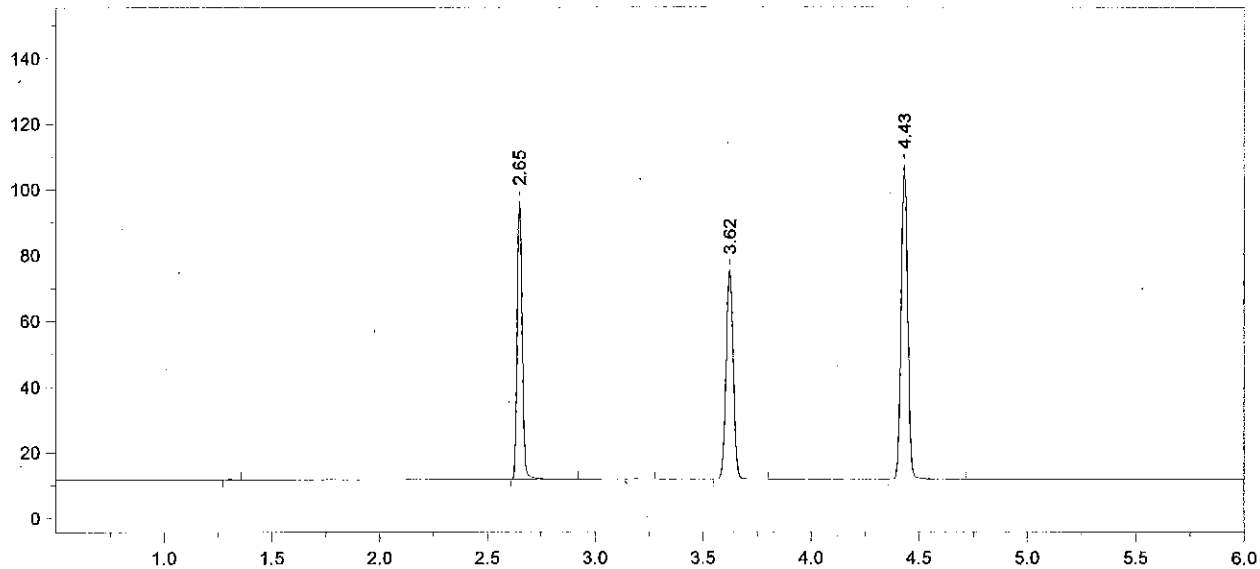
Format File Name = AlcoholVFL.FMT

Today's Date = 3/12/2014
Today's Time = 10:35:51 PM
Bound File Name = VFL03122014.0028.RAW
Sample Name = CCS
Date Taken = 3/12/2014 10:35:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85832	0.0810*
4	3.62	t-Butanol	153352	1.0252
5	4.43	n-Propanol	199675	1.0000

Avg #27 + #28 = 0.082
KLM 3/13/14

14-02-100 27 KLM

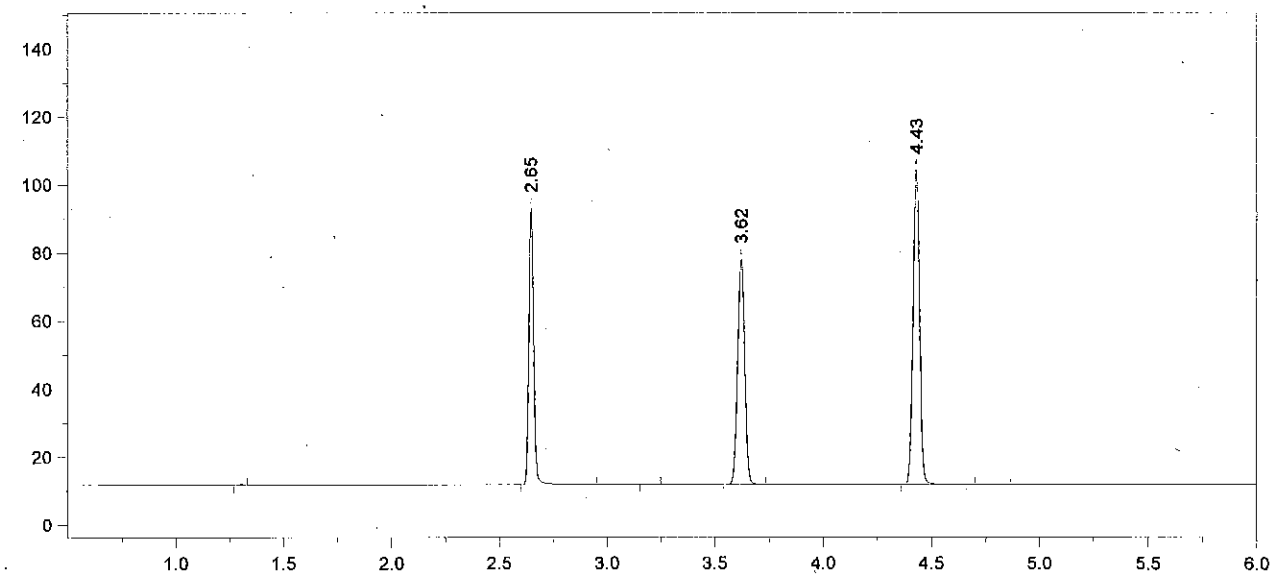


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 10:49:42 PM
Bound File Name = VFL03122014.0029.RAW
Sample Name = 0.1 ALB
Date Taken = 3/12/2014 10:49:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	132006	0.1223	0.0998
4	3.62	t-Butanol	148210	0.9728	0.7940
5	4.43	n-Propanol	203379	1.0000	0.8162

14-02-100 28 KZM

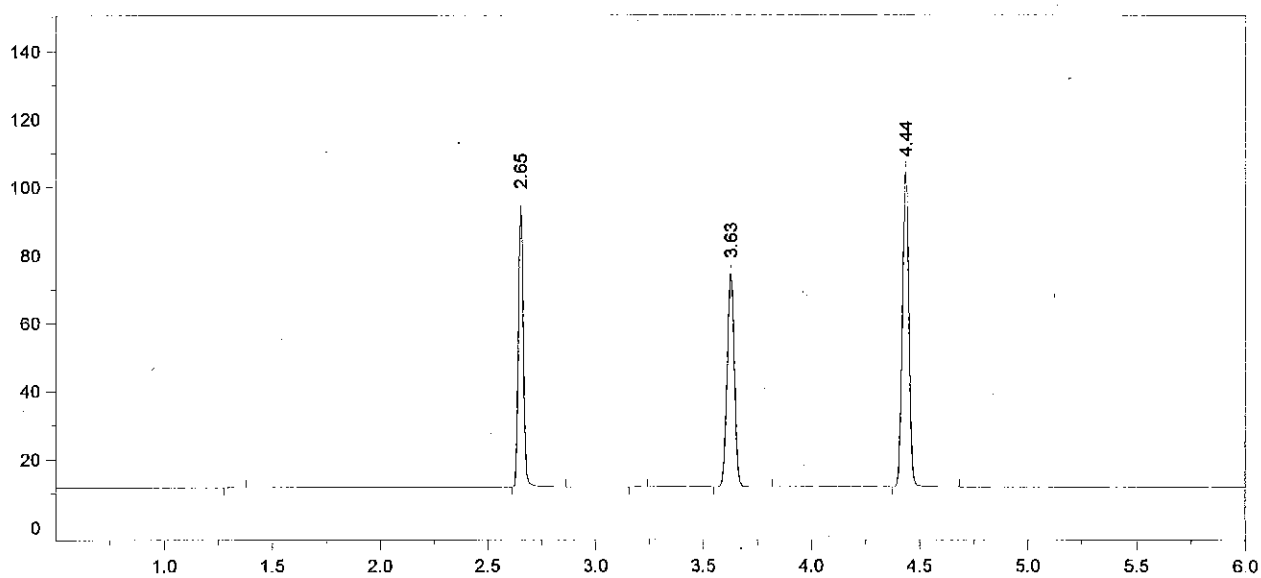


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 11:07:18 PM
Bound File Name = VFL03122014.0030.RAW
Sample Name = 0.1 ALB
Date Taken = 3/12/2014 11:07:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126710	0.1208	0.0986
4	3.62	t-Butanol	152925	1.0329	0.8431
5	4.43	n-Propanol	197635	1.0000	0.8162

14-02-100 29 KZM

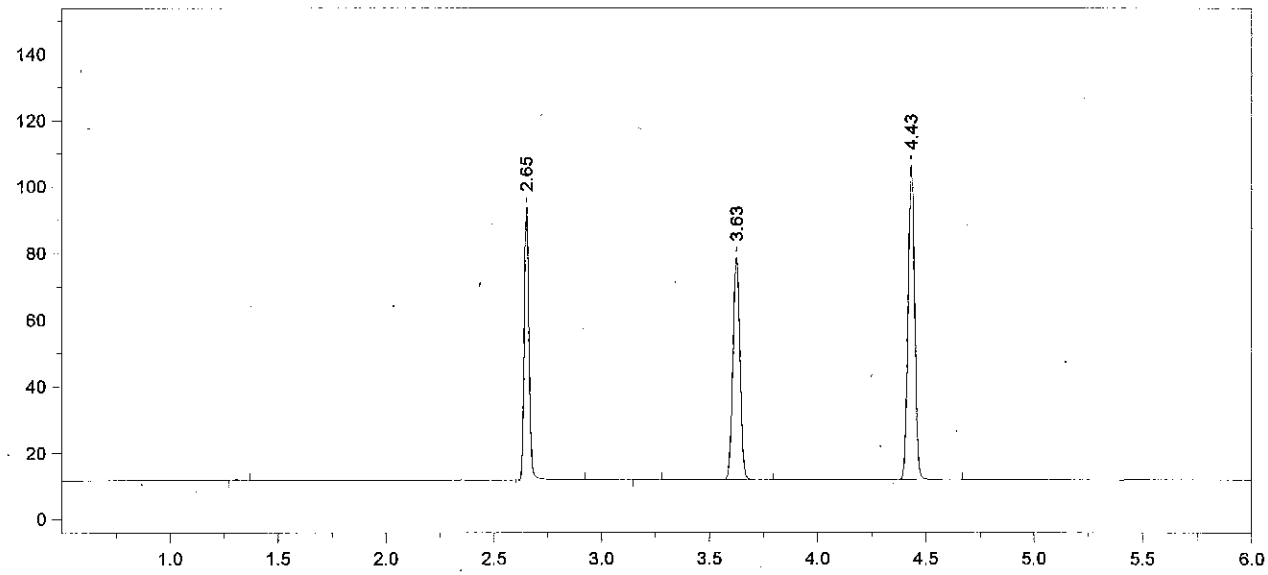


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 11:21:07 PM
Bound File Name = VFL03122014.0031.RAW
Sample Name = 0.1 ALB
Date Taken = 3/12/2014 11:21:01 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128845	0.1229	0.1003
4	3.63	t-Butanol	145292	0.9821	0.8016
5	4.44	n-Propanol	197489	1.0000	0.8162

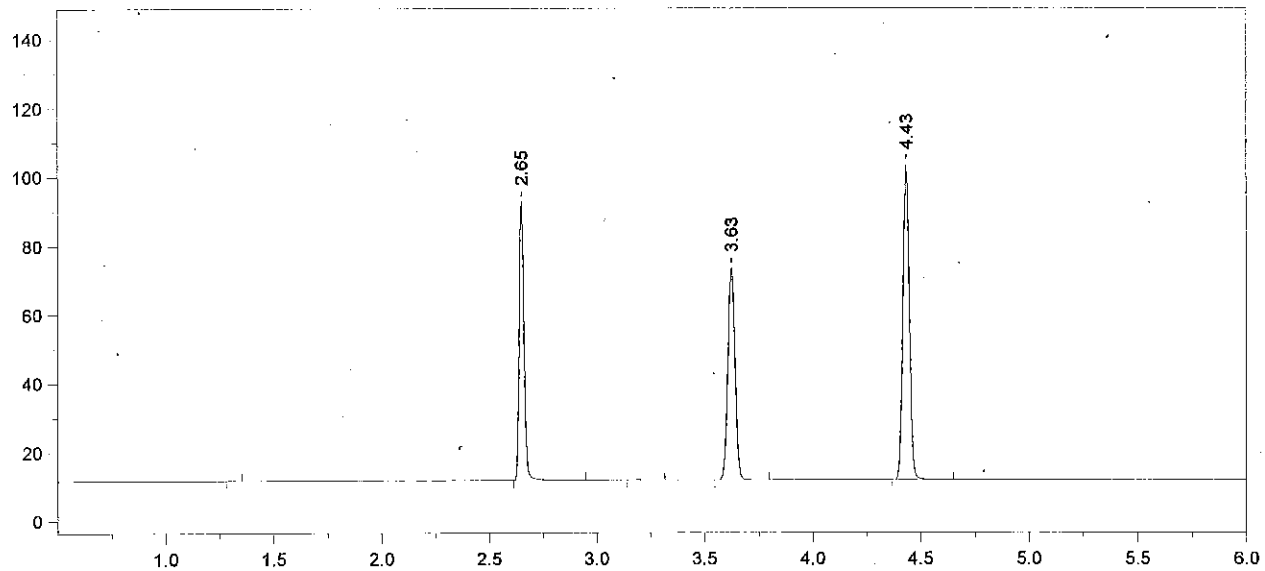
14-02-100 30



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014 Today's Time = 11:38:44 PM
Bound File Name = VFL03122014.0032.RAW
Sample Name = 0.1 ALB
Date Taken = 3/12/2014 11:38:38 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128381	0.1209	0.0987
4	3.63	t-Butanol	155652	1.0385	0.8476
5	4.43	n-Propanol	200070	1.0000	0.8162

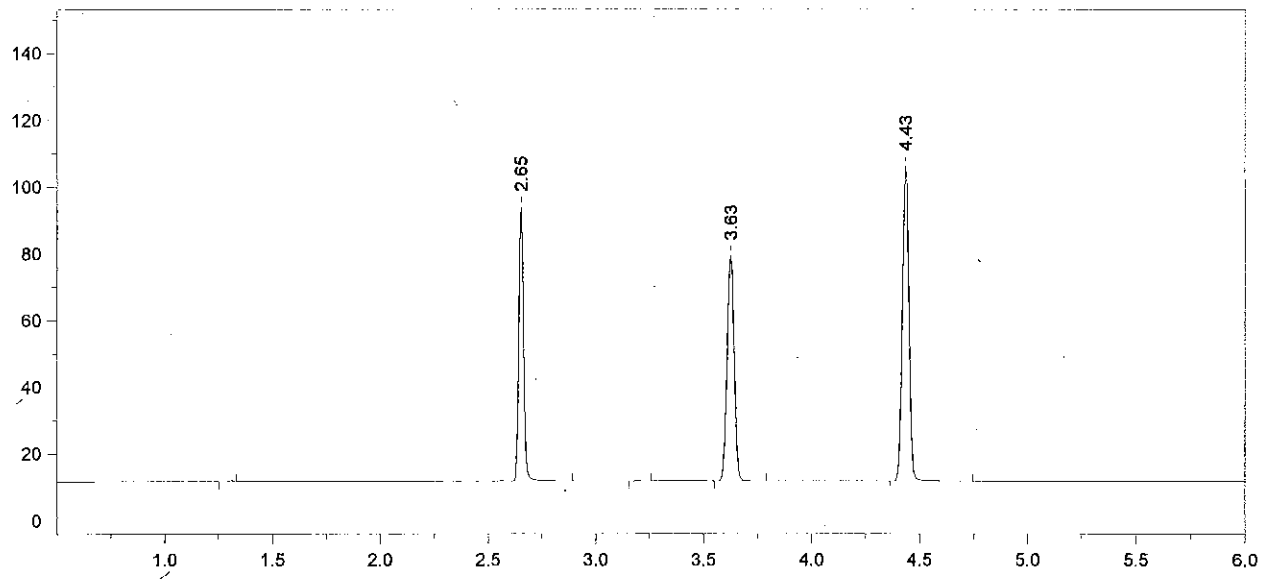


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/12/2014
Today's Time = 11:52:26 PM
Bound File Name = VFL03122014.0033.RAW
Sample Name = 0.1 ALB
Date Taken = 3/12/2014 11:52:21 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127007	0.1237	0.1010
4	3.63	t-Butanol	142679	0.9844	0.8034
5	4.43	n-Propanol	193483	1.0000	0.8162

14-02-100 32 22

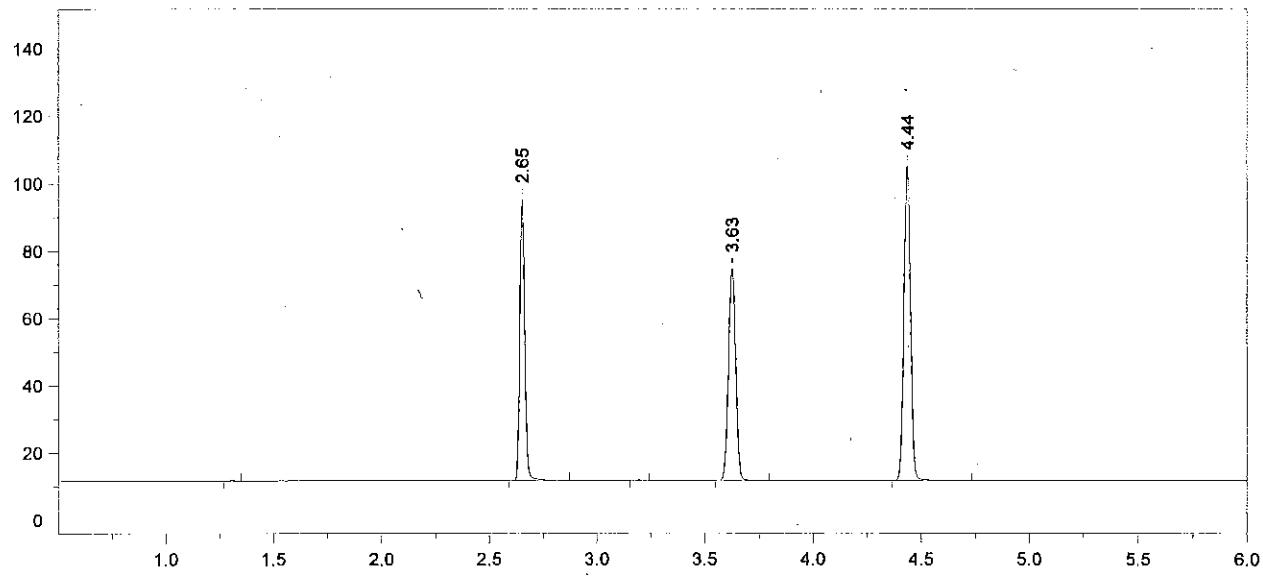


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/13/2014
Today's Time = 12:10:15 AM
Bound File Name = VFL03122014.0034.RAW
Sample Name = 0.1 ALB
Date Taken = 3/13/2014 12:10:05 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127284	0.1192	0.0973
4	3.63	t-Butanol	156055	1.0348	0.8446
5	4.43	n-Propanol	201305	1.0000	0.8162

14-02-100 33

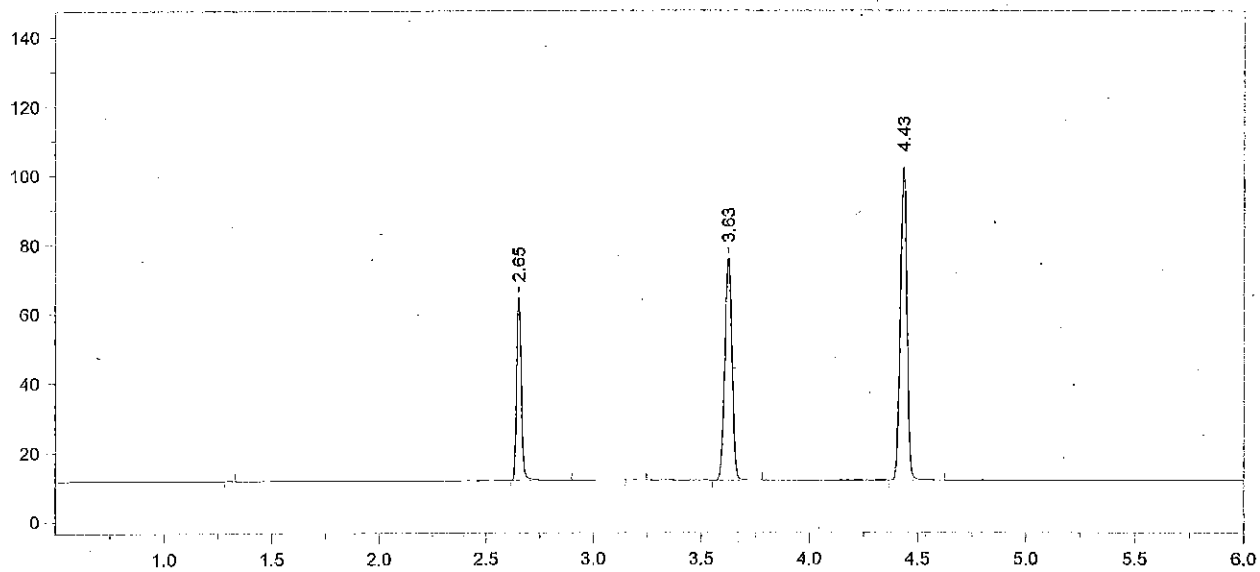


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/13/2014
Today's Time = 12:23:27 AM
Bound File Name = VFL03122014.0035.RAW
Sample Name = 0.1 ALB
Date Taken = 3/13/2014 12:23:18 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129667	0.1226	0.1001
4	3.63	t-Butanol	146116	0.9787	0.7988
5	4.44	n-Propanol	199289	1.0000	0.8162

14-02-100 34

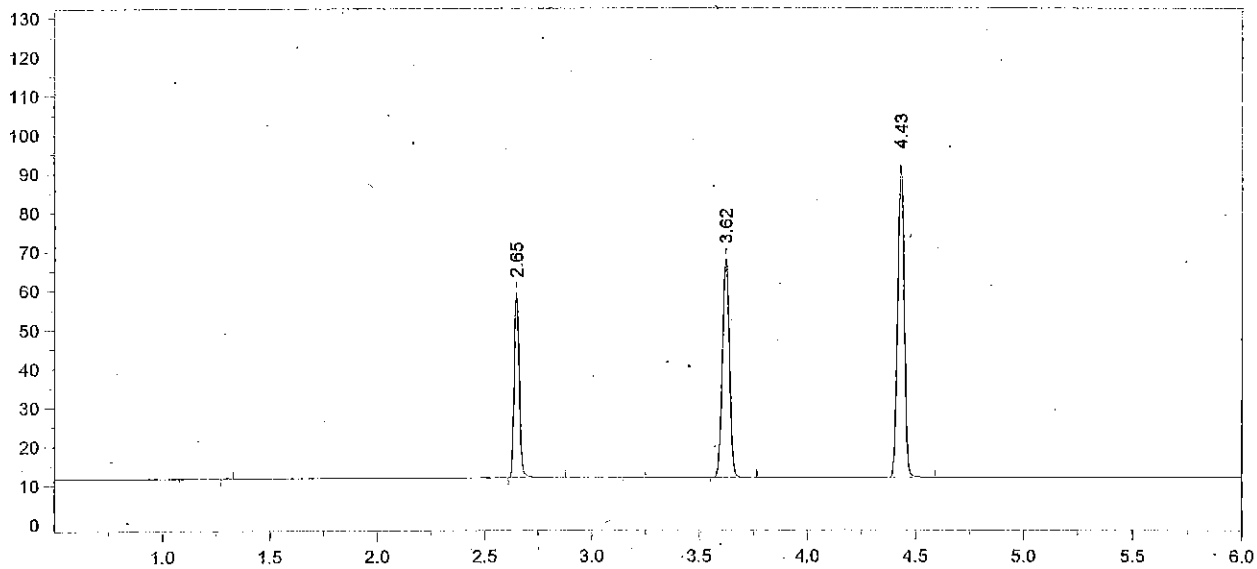


Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 12:41:36 AM
Bound File Name = VFL03122014.0036.RAW
Sample Name = CCS
Date Taken = 3/13/2014 12:41:32 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83075	0.0815 *
4	3.63	t-Butanol	148782	1.0340
5	4.43	n-Propanol	192080	1.0000

14-02-100 35



Format File Name = AlcoholVFL.FMT

Today's Date = 3/13/2014
Today's Time = 12:55:27 AM
Bound File Name = VFL03122014.0037.RAW
Sample Name = CCS
Date Taken = 3/13/2014 12:55:23 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74823	0.0824
4	3.62	t-Butanol	129789	1.0126
5	4.43	n-Propanol	171105	1.0000

Avg #36 + #37 = 0.082
RLM 3/13/14

14-02-100 36 RLM

File Name: C:\Methods\VFL03182014.CAL
Version: 7

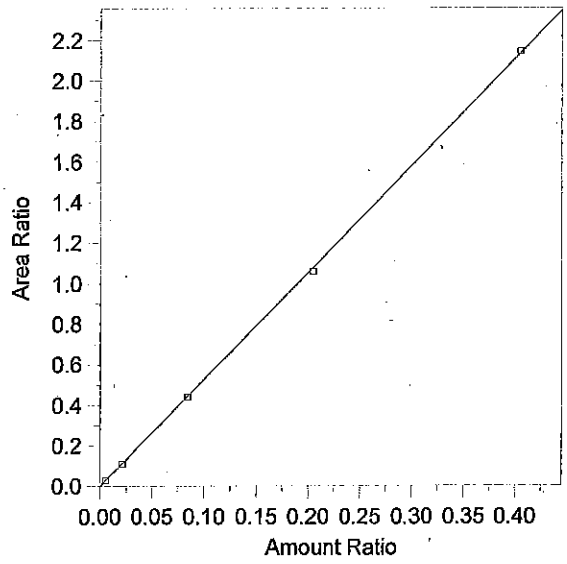
Creator:
Description:
Reason for change:

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:	2.655 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 = 5.270891 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998636
Average error:	1.298%
Average CF:	5.231915
RSD:	1.461%

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	0.0053	5624.673	1061259	0.940	0.0053	0.0281983	C:\Alcohol Data\VFL03182014\VFL03182014.0003.BND	3/18/2014 10:50:25 AM
3	0.0211	21153.79	1002549	-2.578	0.0211	0.1083481	C:\Alcohol Data\VFL03182014\VFL03182014.0004.BND	3/18/2014 11:08:01 AM
4	0.0841	82105.41	976283.1	-0.908	0.0841	0.4392571	C:\Alcohol Data\VFL03182014\VFL03182014.0005.BND	3/18/2014 11:22:10 AM
5	0.2043	198021.7	969269.3	-1.606	0.2043	1.059548	C:\Alcohol Data\VFL03182014\VFL03182014.0006.BND	3/18/2014 11:39:30 AM
6	0.4047	423012.2	1045249	0.455	0.4047	2.142843	C:\Alcohol Data\VFL03182014\VFL03182014.0007.BND	3/18/2014 11:53:20 AM

14-02-100

37

File Name = C:\Alcohol Data\VFL03182014\VFL03182014.SEQ
Version = 1
File Date = 3/18/2014 9:43:55 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL03182014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL03182014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL03182014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL03182014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL03182014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL03182014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL03182014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL03182014.0008.raw	Blood Alc temp VFL.MET	WB QC	1.00	1.00
9	VFL03182014.0009.raw	Blood Alc temp VFL.MET	WB QC	1.00	1.00
10	VFL03182014.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL03182014.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL03182014.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL03182014.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL03182014.0014.raw	Blood Alc temp VFL.MET	V14-478 A1-1	1.00	1.00
15	VFL03182014.0015.raw	Blood Alc temp VFL.MET	V14-478 A1-1	1.00	1.00
16	VFL03182014.0016.raw	Blood Alc temp VFL.MET	V14-488 A1-1	1.00	1.00
17	VFL03182014.0017.raw	Blood Alc temp VFL.MET	V14-488 A1-1	1.00	1.00
18	VFL03182014.0018.raw	Blood Alc temp VFL.MET	ES-03182014 A	1.00	1.00
19	VFL03182014.0019.raw	Blood Alc temp VFL.MET	ES-03182014 B	1.00	1.00
20	VFL03182014.0020.raw	Blood Alc temp VFL.MET	ES-03182014 C	1.00	1.00
21	VFL03182014.0021.raw	Blood Alc temp VFL.MET	ES-03182014 D	1.00	1.00
22	VFL03182014.0022.raw	Blood Alc temp VFL.MET	ES-03182014 E	1.00	1.00
23	VFL03182014.0023.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
24	VFL03182014.0024.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
25	VFL03182014.0025.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
26	VFL03182014.0026.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
27	VFL03182014.0027.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
28	VFL03182014.0028.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
29	VFL03182014.0029.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
30	VFL03182014.0030.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
31	VFL03182014.0031.raw	simsoln.met	0.1 SIM ALB	1.00	1.00
32	VFL03182014.0032.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
33	VFL03182014.0033.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
34	VFL03182014.0034.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
35	VFL03182014.0035.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
36	VFL03182014.0036.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
37	VFL03182014.0037.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
38	VFL03182014.0038.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
39	VFL03182014.0039.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
40	VFL03182014.0040.raw	simsoln.met	0.1 SIM RLM	1.00	1.00
41	VFL03182014.0041.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
42	VFL03182014.0042.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

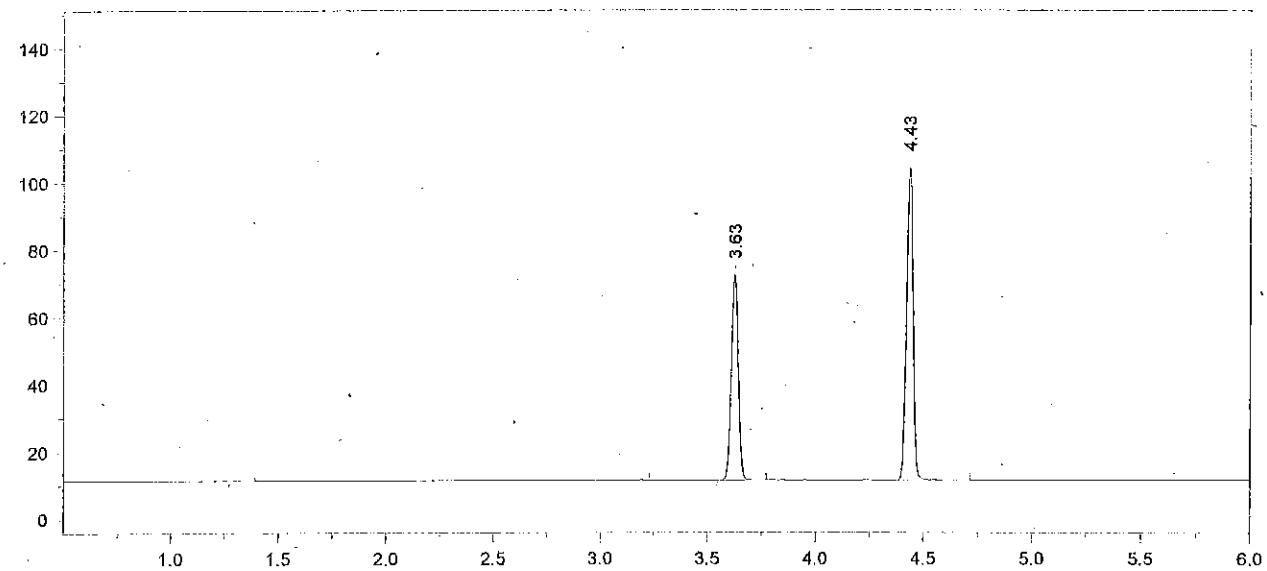
Case work due 3/18/14 not included

New Standards not included 3/18/14

Internal Std. IS - 10312013
Calibration Stds ES - 12202013
TMX TMX - 08122013
WB QC Cliniqa 1212090
AQ QC Cerilliant FN021111-03

3/21/14

14-02-100 38



Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:16 PM
Bound File Name = VFL03182014.0001.RAW
Sample Name = Blank
Date Taken = 3/18/2014 10:19:29 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	141148	0.9520
4	4.43	n-Propanol	198352	1.0000

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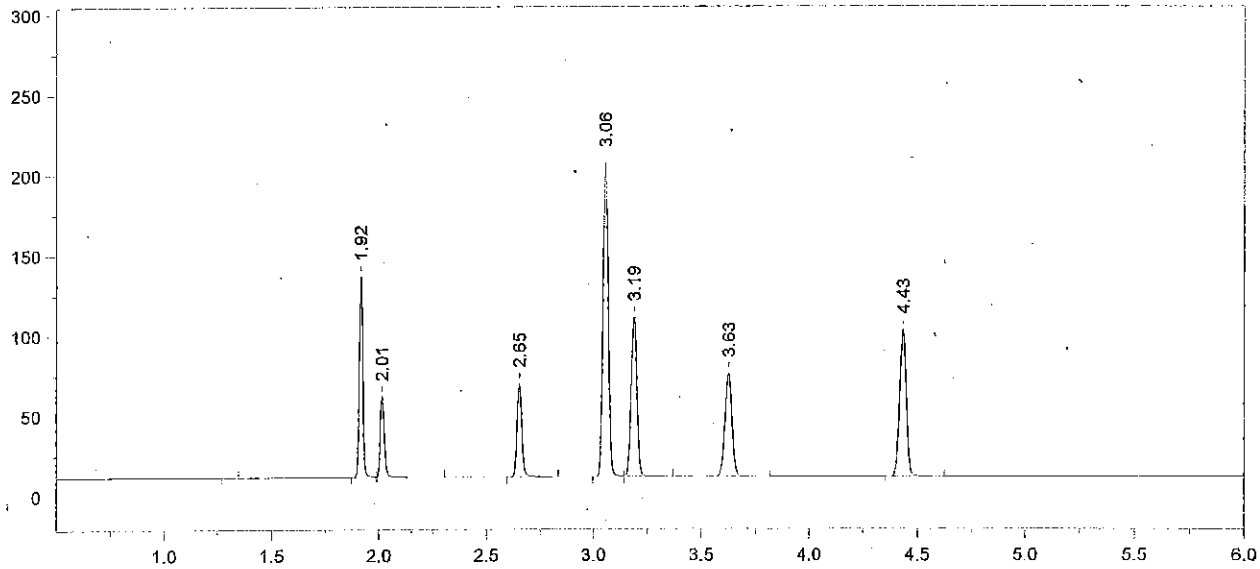
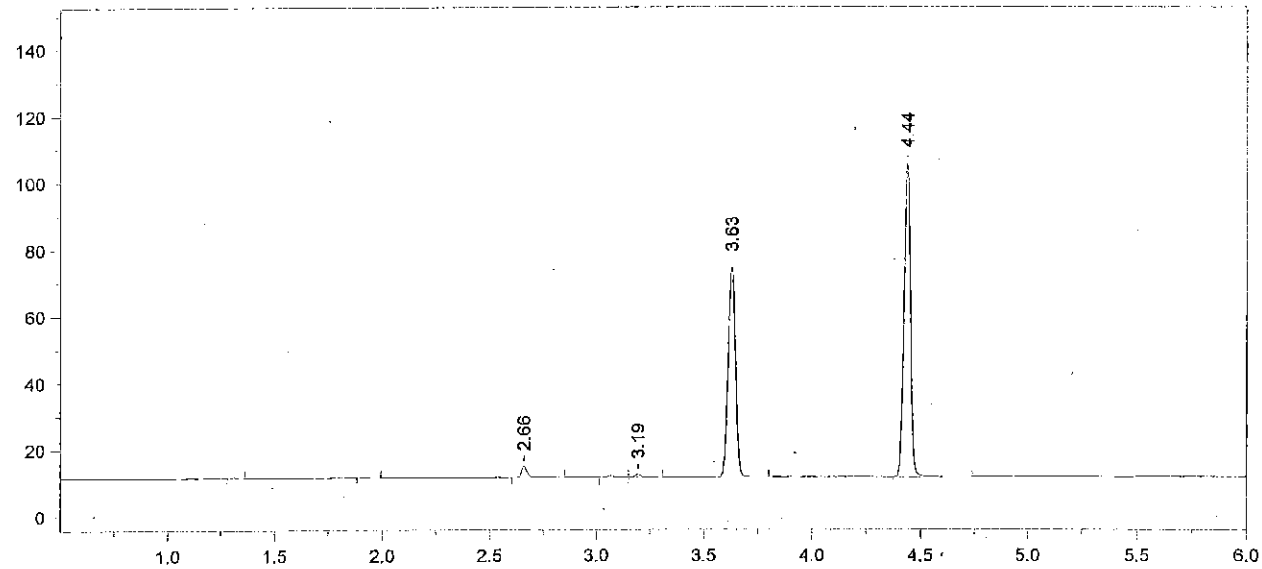


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:24 PM
Bound File Name = VFL03182014.0002.RAW
Sample Name = TMX
Date Taken = 3/18/2014 10:36:30 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	147001	0.0520
3	2.01	Methanol	65974	0.1370
4	2.65	Ethanol	90903	0.0889
5	3.06	Acetone	335224	0.0940
6	3.19	Isopropanol	187960	0.0850
7	3.63	t-Butanol	149344	1.0302
8	4.43	n-Propanol	193942	1.0000



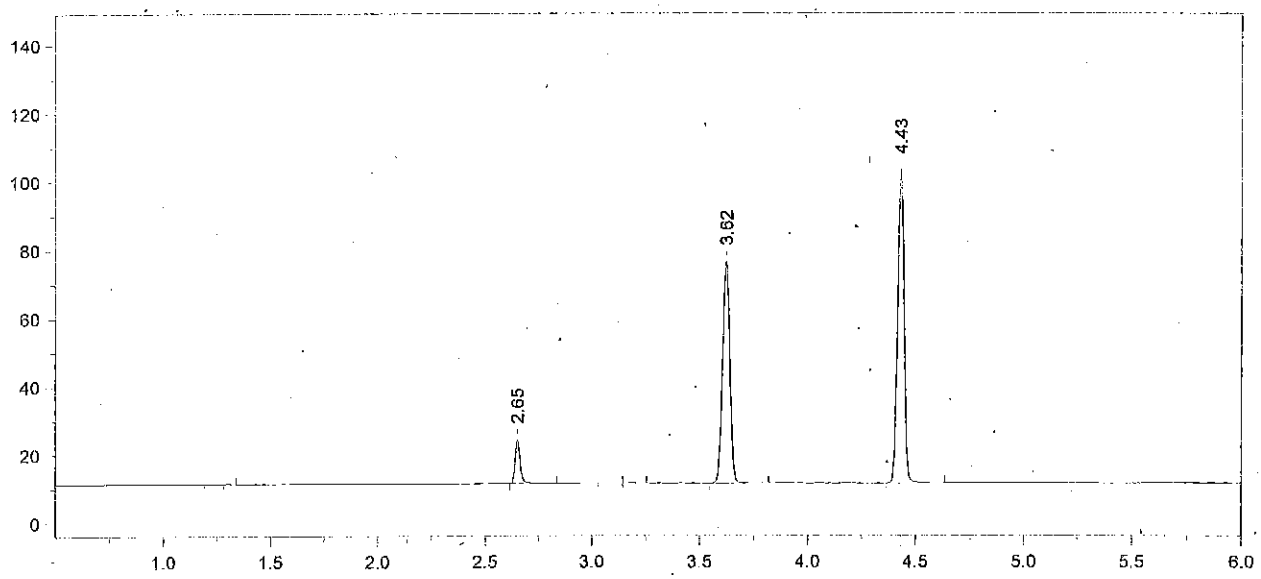
Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:31 PM
Bound File Name = VFL03182014.0003.RAW
Sample Name = STD A
Date Taken = 3/18/2014 10:50:18 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05625	0.0053
5	3.19	Isopropanol	01563	<0.004
6	3.63	t-Butanol	146367	0.9817
7	4.44	n-Propanol	199469	1.0000

14-02-100

41

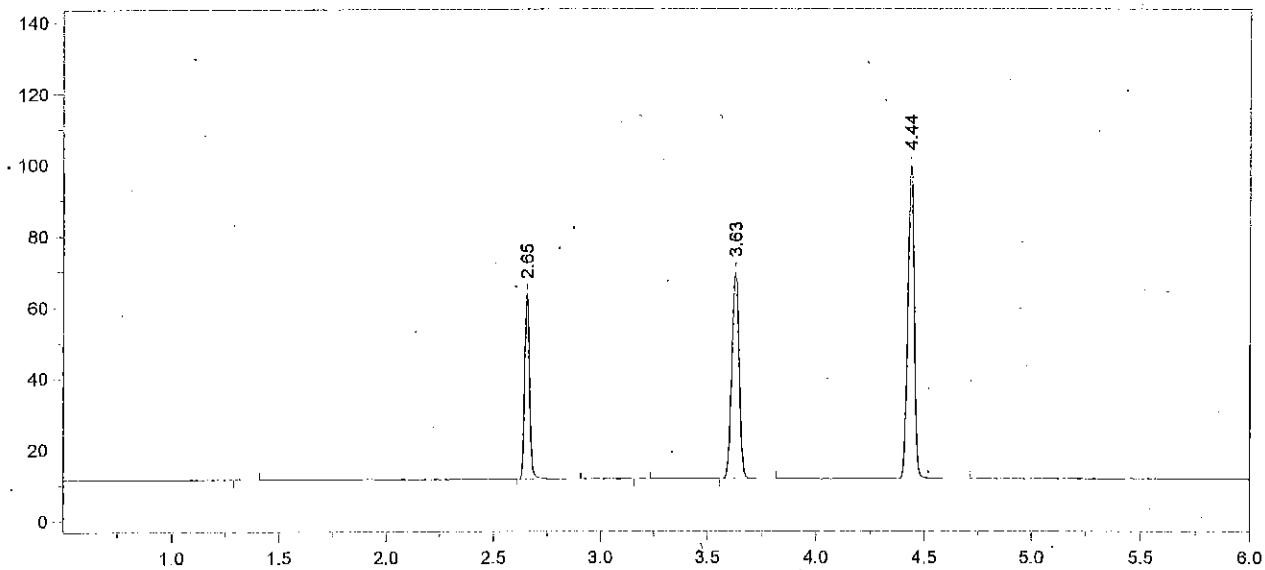


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:37 PM
Bound File Name = VFL03182014.0004.RAW
Sample Name = STD B
Date Taken = 3/18/2014 11:07:54 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	21154	0.0206
5	3.62	t-Butanol	150783	1.0332
6	4.43	n-Propanol	195239	1.0000

14-02-100 42

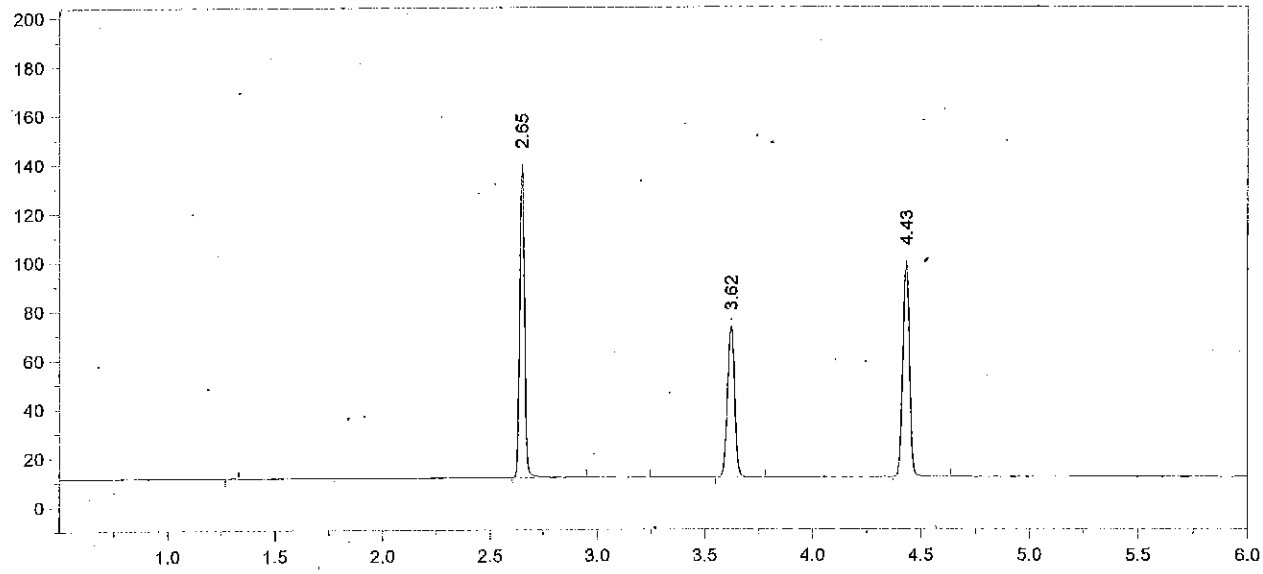


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:42 PM
Bound File Name = VFL03182014.0005.RAW
Sample Name = STD C
Date Taken = 3/18/2014 11:22:04 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82105	0.0833
4	3.63	t-Butanol	134664	0.9638
5	4.44	n-Propanol	186919	1.0000

14-02-100 43

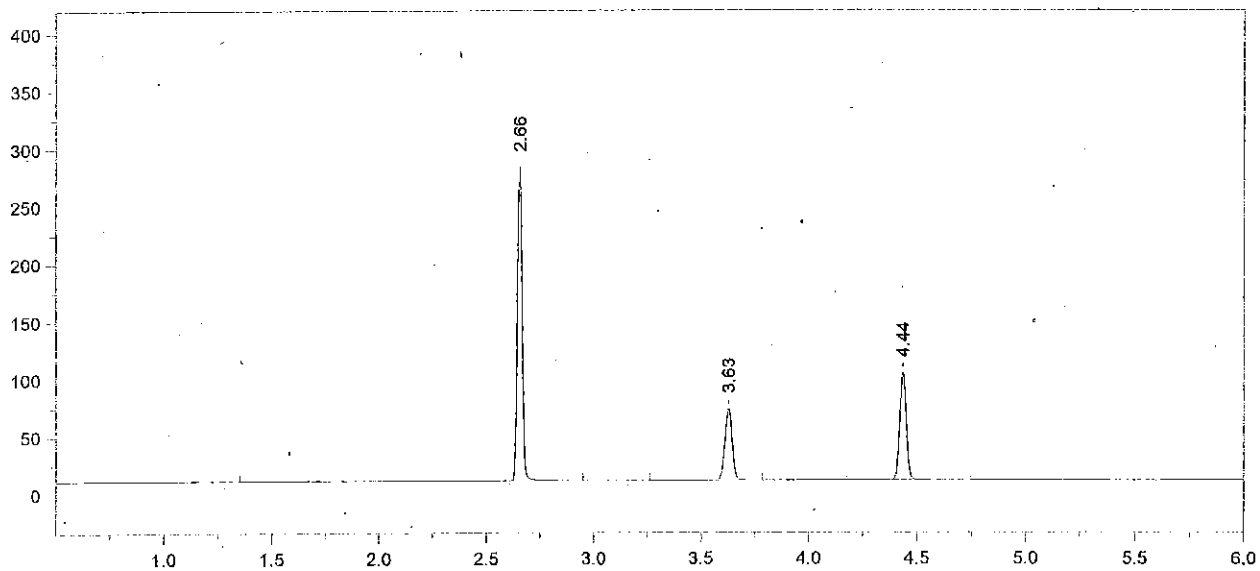


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:50 PM
Bound File Name = VFL03182014.0006.RAW
Sample Name = STD D
Date Taken = 3/18/2014 11:39:19 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	198022	0.2010
4	3.62	t-Butanol	142791	1.0222
5	4.43	n-Propanol	186893	1.0000

14-02-100 44 RCM

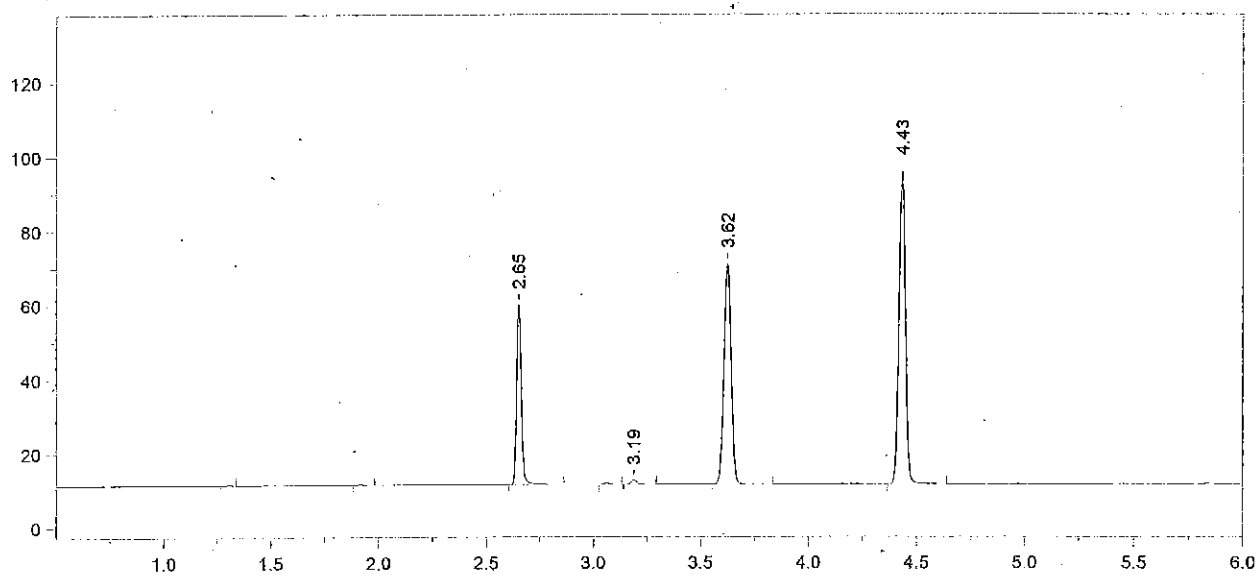


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:50:56 PM
Bound File Name = VFL03182014.0007.RAW
Sample Name = STD E
Date Taken = 3/18/2014 11:53:14 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	423012	0.4065
4	3.63	t-Butanol	142964	0.9689
5	4.44	n-Propanol	197407	1.0000

14-02-100 45 RLM

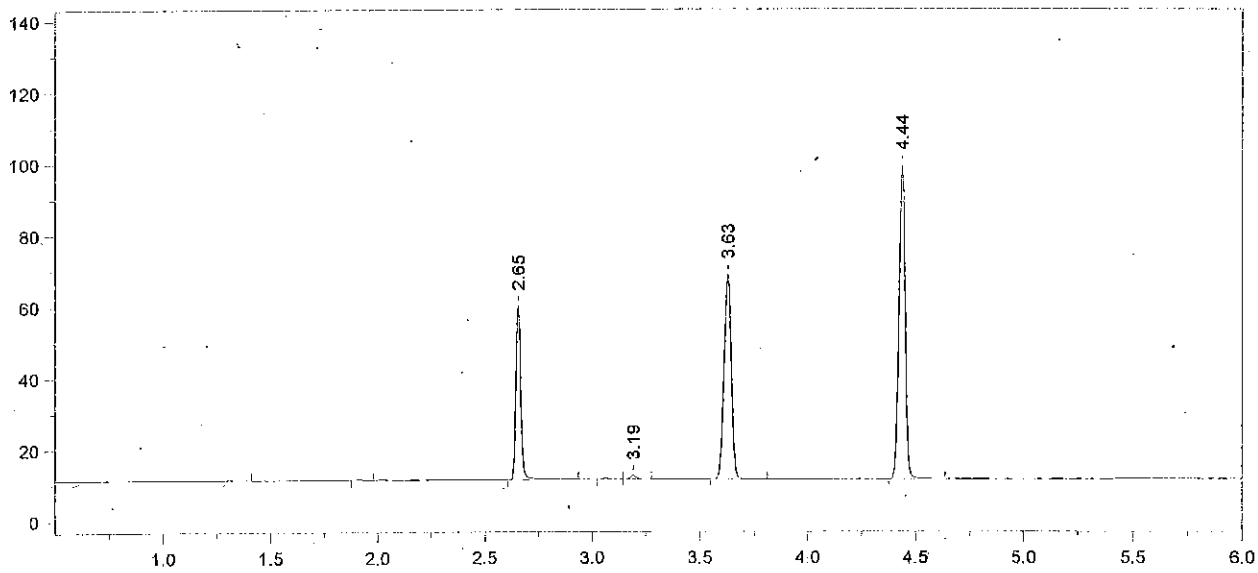


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:10:47 PM
Bound File Name = VFL03182014.0008.RAW
Sample Name = WB QC
Date Taken = 3/18/2014 12:10:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	76736	0.0812
5	3.19	Isopropanol	02127	<0.004
6	3.62	t-Butanol	137565	1.0260
7	4.43	n-Propanol	179380	1.0000

14-02-100 46



Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:24:54 PM
Bound File Name = VFL03182014.0009.RAW
Sample Name = WB QC
Date Taken = 3/18/2014 12:24:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	76559	0.0780
5	3.19	Isopropanol	02029	<0.004
6	3.63	t-Butanol	132884	0.9546
7	4.44	n-Propanol	186232	1.0000

Avg vials 8 + 9 = 0.079

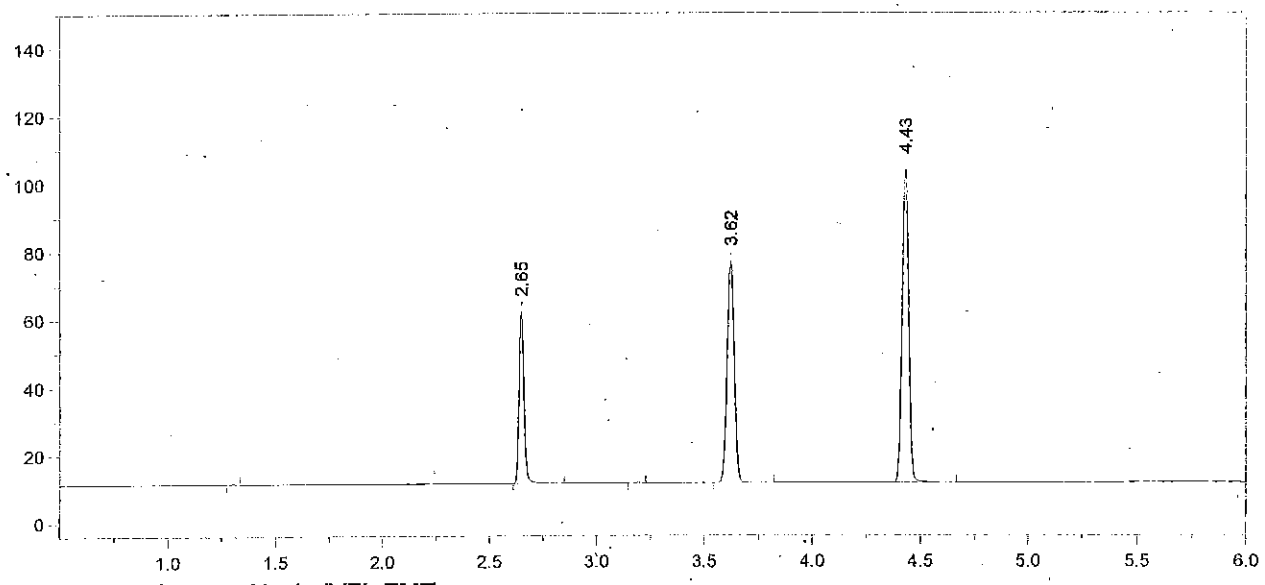
TV = 0.078 101% recovery

AMB 3/18/14

14-02-100

47

RLM

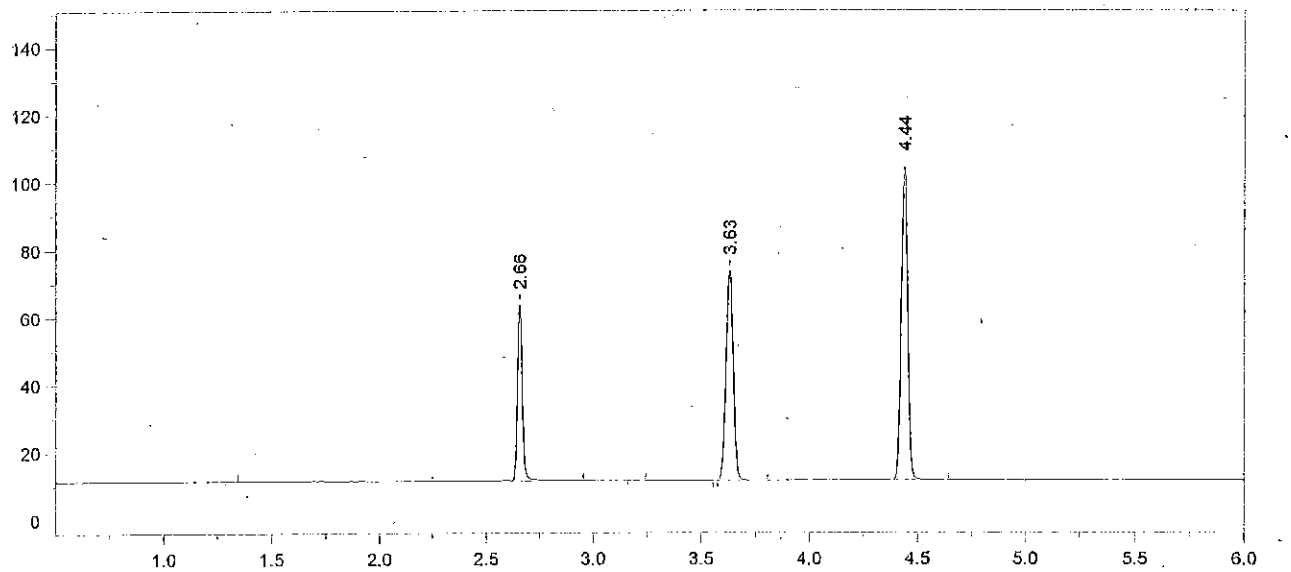


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:42:16 PM
Bound File Name = VFL03182014.0010.RAW
Sample Name = AQ QC
Date Taken = 3/18/2014 12:42:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79298	0.0767
4	3.62	t-Butanol	151765	1.0345
5	4.43	n-Propanol	196263	1.0000

14-02-100 48 RM

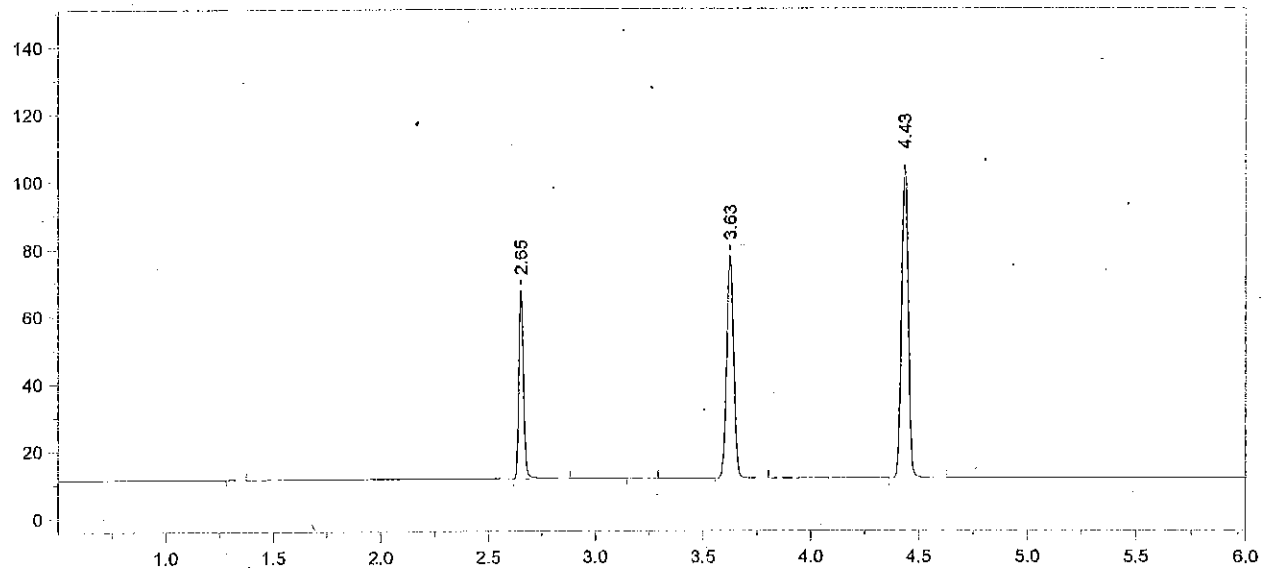


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 12:56:00 PM
Bound File Name = VFL03182014.0011.RAW
Sample Name = AQ QC
Date Taken = 3/18/2014 12:55:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82008	0.0791
4	3.63	t-Butanol	143959	0.9797
5	4.44	n-Propanol	196576	1.0000

Avg vials 10+11 = 0.078
TV = 0.080 97% recovery
AB 3/18/14



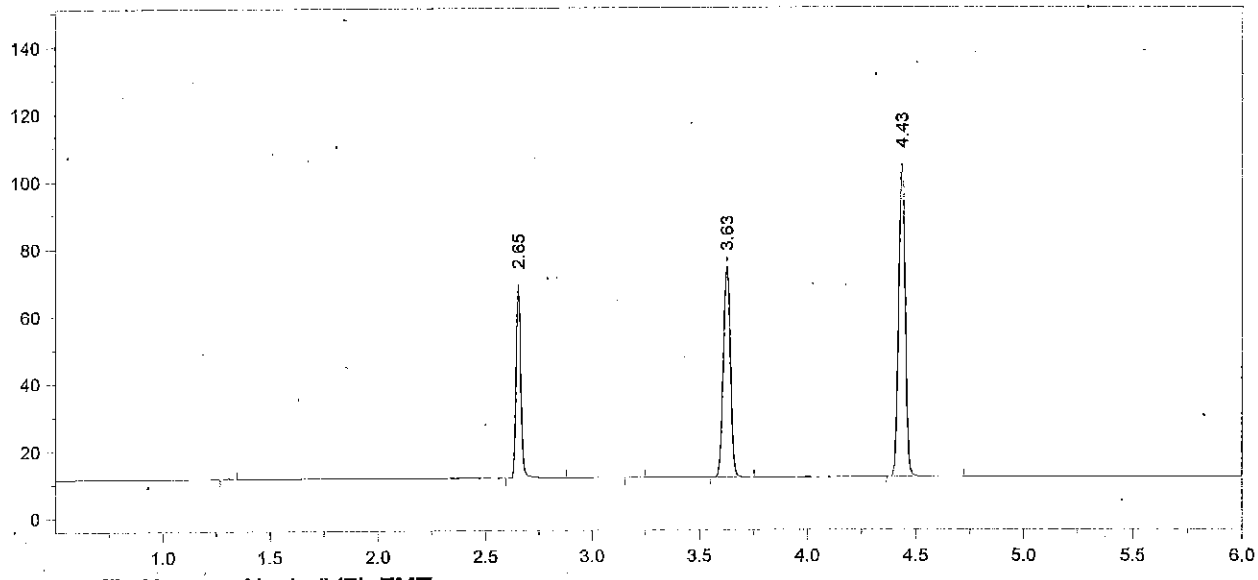
Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 1:13:39 PM
Bound File Name = VFL03182014.0012.RAW
Sample Name = CCS
Date Taken = 3/18/2014 1:13:32 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86771	0.0831
4	3.63	t-Butanol	152811	1.0314
5	4.43	n-Propanol	198211	1.0000

14-02-100

50



Format File Name = AlcoholVFL.FMT

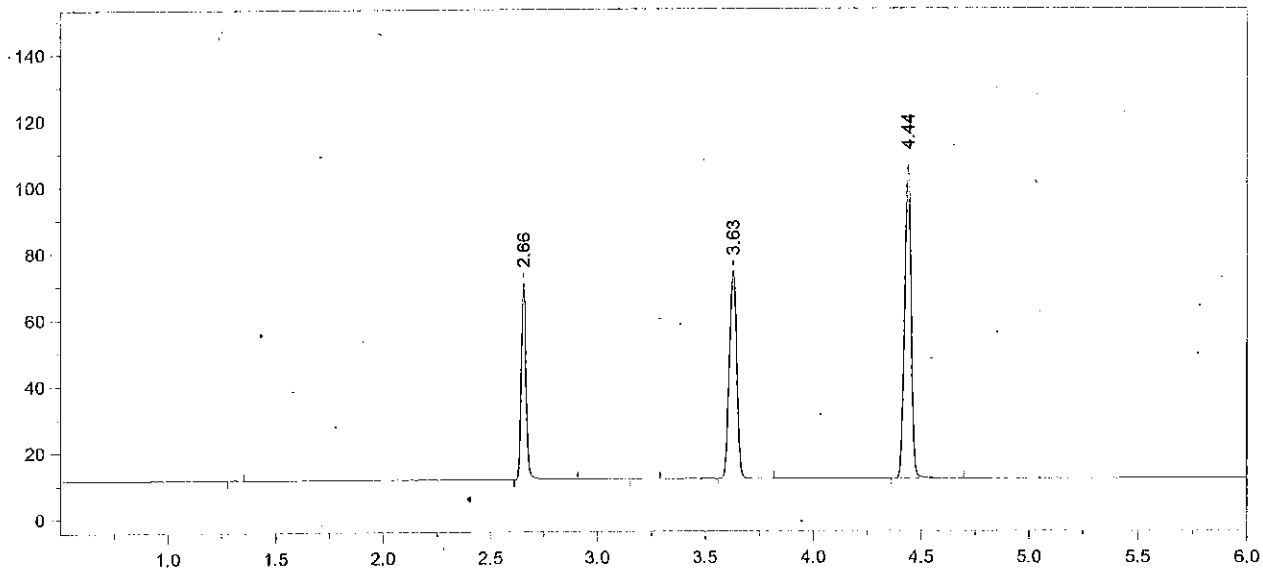
Today's Date = 3/18/2014
Today's Time = 1:26:53 PM
Bound File Name = VFL03182014.0013.RAW
Sample Name = CCS
Date Taken = 3/18/2014 1:26:47 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89794	0.0856
4	3.63	t-Butanol	144837	0.9741
5	4.43	n-Propanol	198920	1.0000

Avg vials 12+13 = 0.084

3/18/14 [illegible]

14-02-100 51 [illegible]

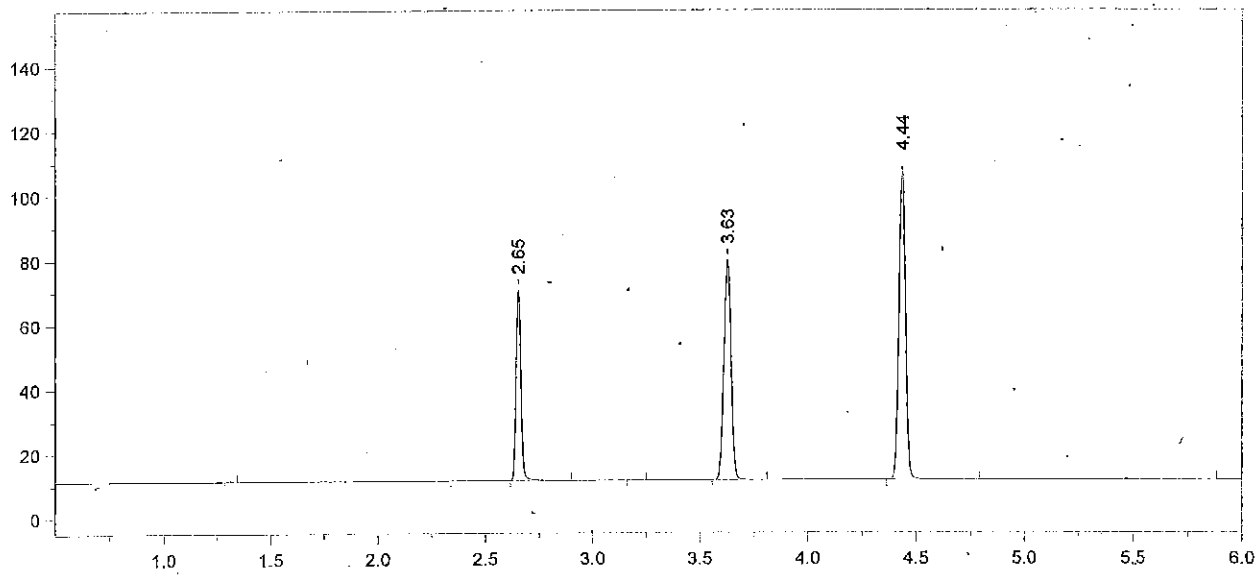


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 4:04:53 PM
Bound File Name = VFL03182014.0023.RAW
Sample Name = CCS
Date Taken = 3/18/2014 4:04:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	93559	0.0884
4	3.63	t-Butanol	145720	0.9709
5	4.44	n-Propanol	200788	1.0000

14-02-100 52

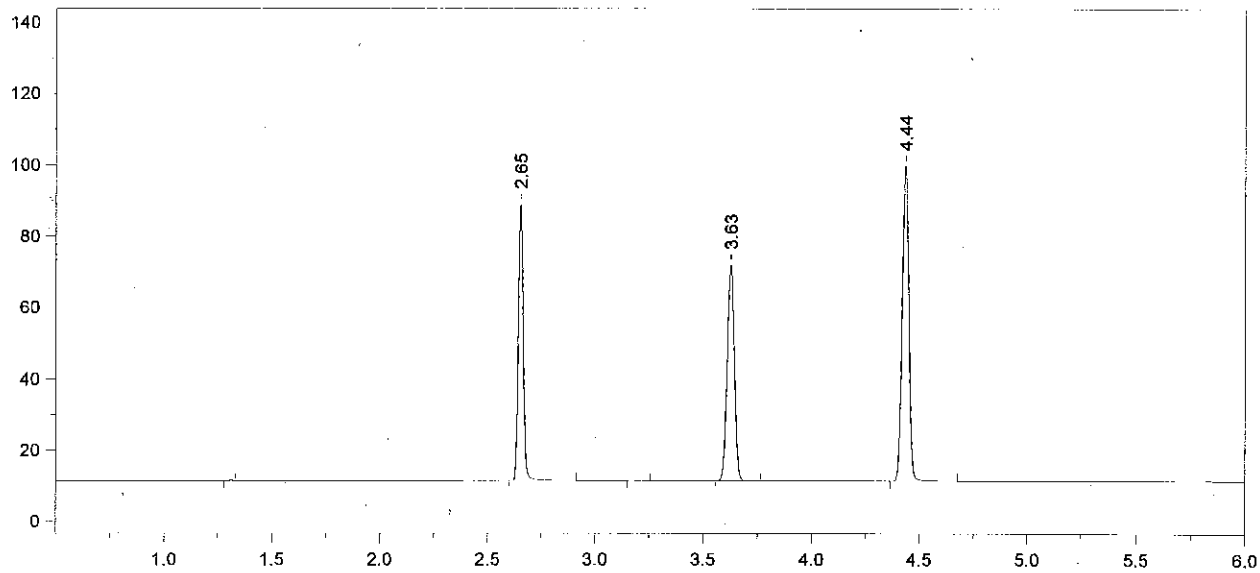


Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 4:22:02 PM
Bound File Name = VFL03182014.0024.RAW
Sample Name = CCS
Date Taken = 3/18/2014 4:21:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	92412	0.0847
4	3.63	t-Butanol	157485	1.0178
5	4.44	n-Propanol	207004	1.0000

Avg Vials 23+ 24 = 0.086
3/19/14
dhs

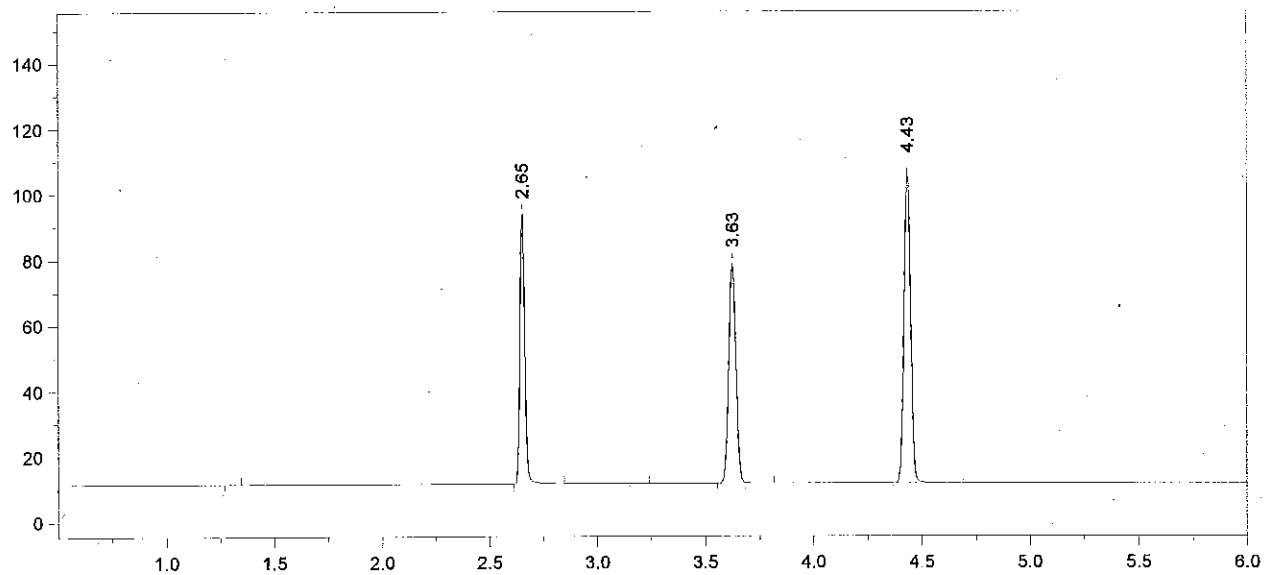


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 4:37:00 PM
Bound File Name = VFL03182014.0025.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 4:36:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120340	0.1209	0.0987
4	3.63	t-Butanol	139718	0.9902	0.8082
5	4.44	n-Propanol	188772	1.0000	0.8162

14-02-100 54



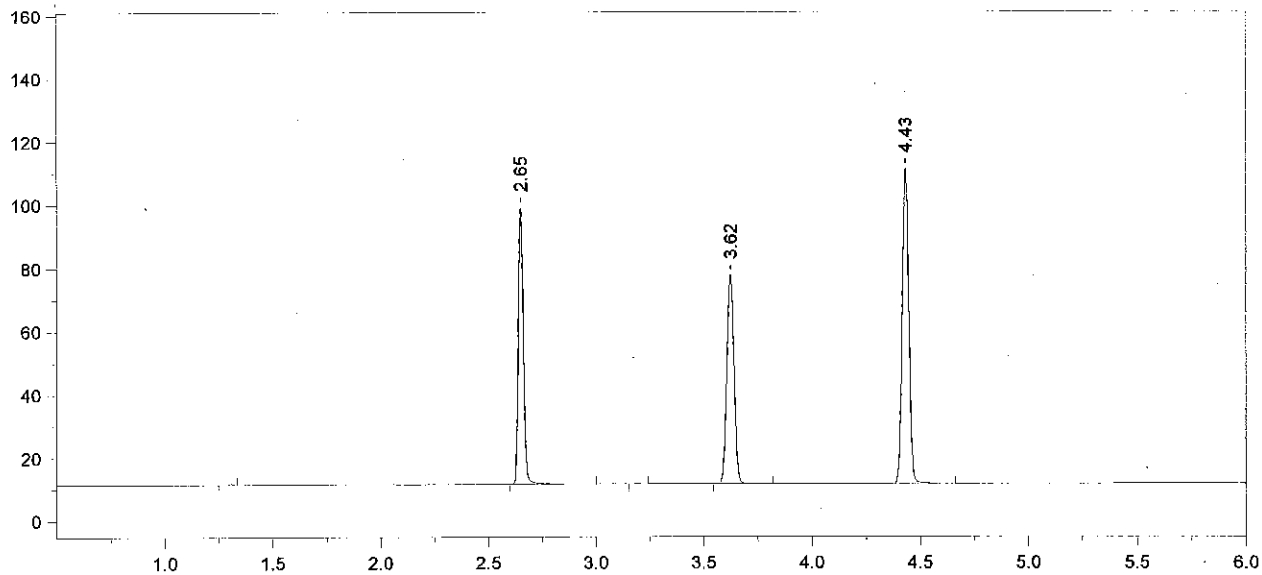
Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 4:53:30 PM
Bound File Name = VFL03182014.0026.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 4:53:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128412	0.1194	0.0975
4	3.63	t-Butanol	156198	1.0243	0.8360
5	4.43	n-Propanol	204010	1.0000	0.8162

14-02-100 55 RLM

Chrom Perfect Chromatogram Report

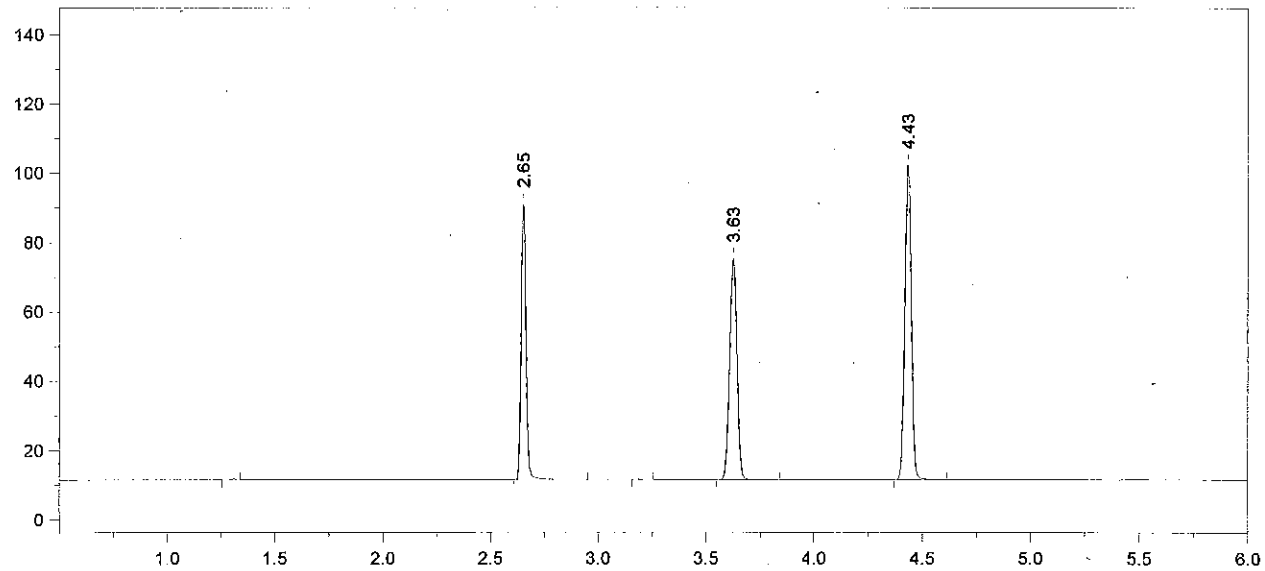


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 5:07:47 PM
Bound File Name = VFL03182014.0027.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 5:07:40 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	136786	0.1228	0.1002
4	3.62	t-Butanol	153816	0.9735	0.7946
5	4.43	n-Propanol	211376	1.0000	0.8162

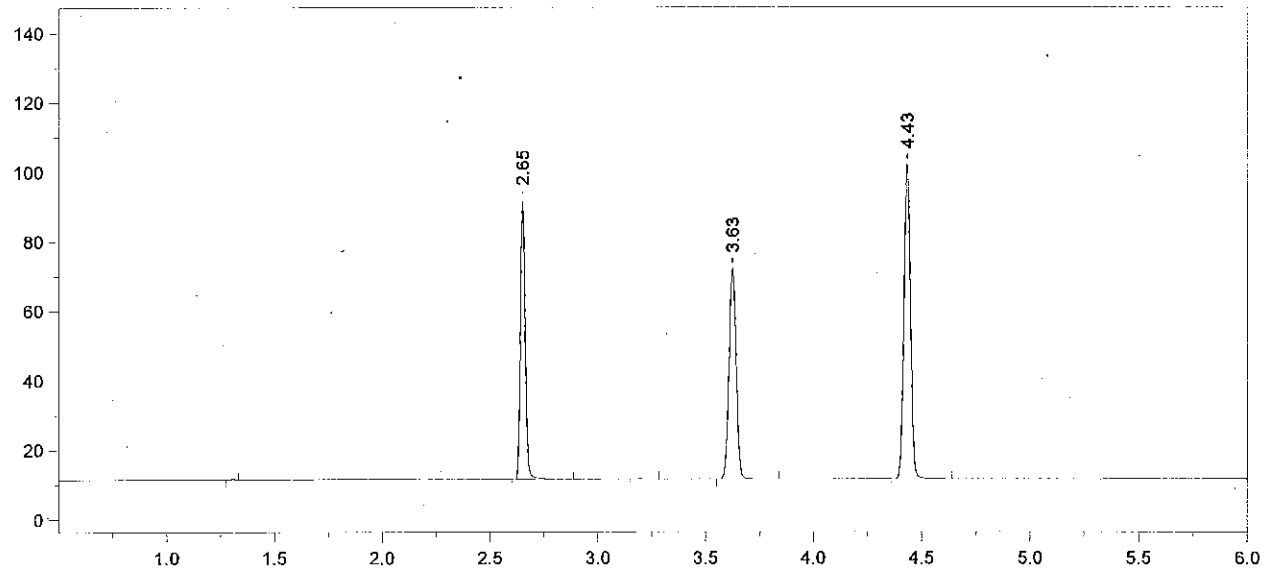
14-02-100 56 RZM



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014 Today's Time = 5:24:58 PM
Bound File Name = VFL03182014.0028.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 5:24:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123320	0.1213	0.0990
4	3.63	t-Butanol	147618	1.0239	0.8357
5	4.43	n-Propanol	192877	1.0000	0.8162

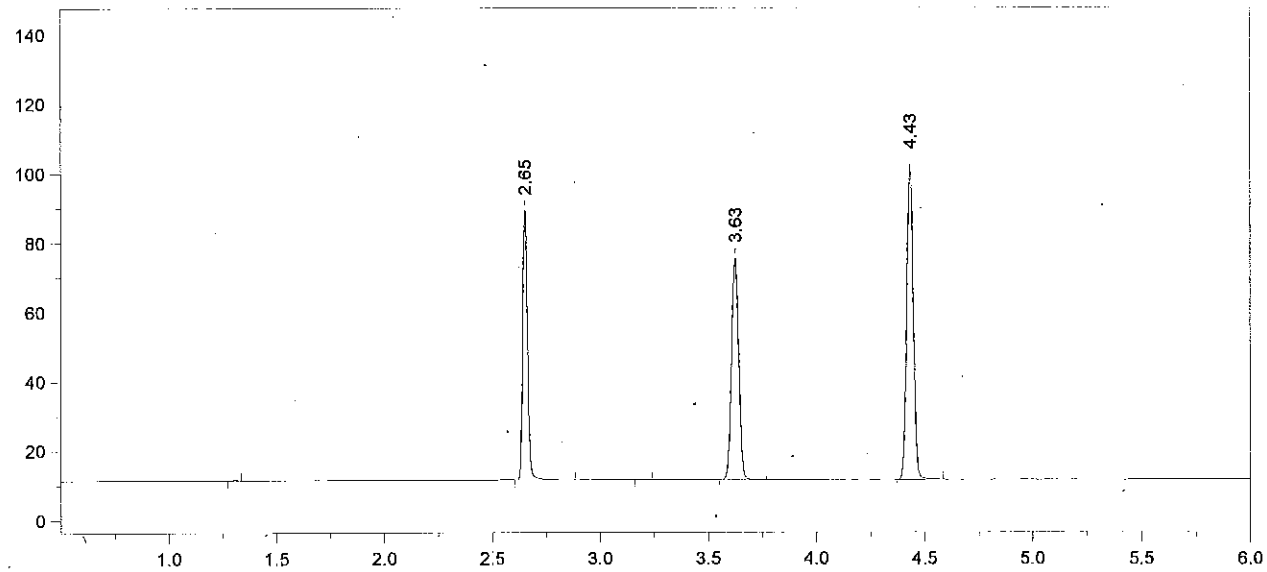


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 5:38:34 PM
Bound File Name = VFL03182014.0029.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 5:38:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124773	0.1231	0.1005
4	3.63	t-Butanol	140669	0.9786	0.7988
5	4.43	n-Propanol	192301	1.0000	0.8162

14-02-100 58 RZ

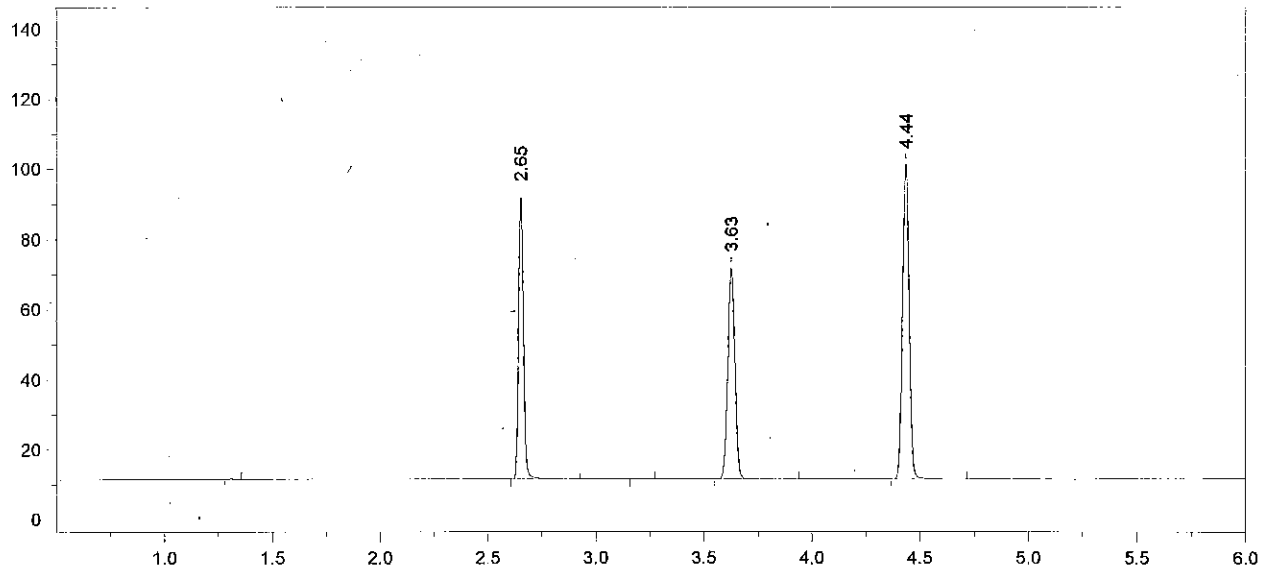


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 5:56:21 PM
Bound File Name = VFL03182014.0030.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 5:56:13 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122068	0.1205	0.0983
4	3.63	t-Butanol	148511	1.0335	0.8435
5	4.43	n-Propanol	192247	1.0000	0.8162

14-02-100 59 KLM

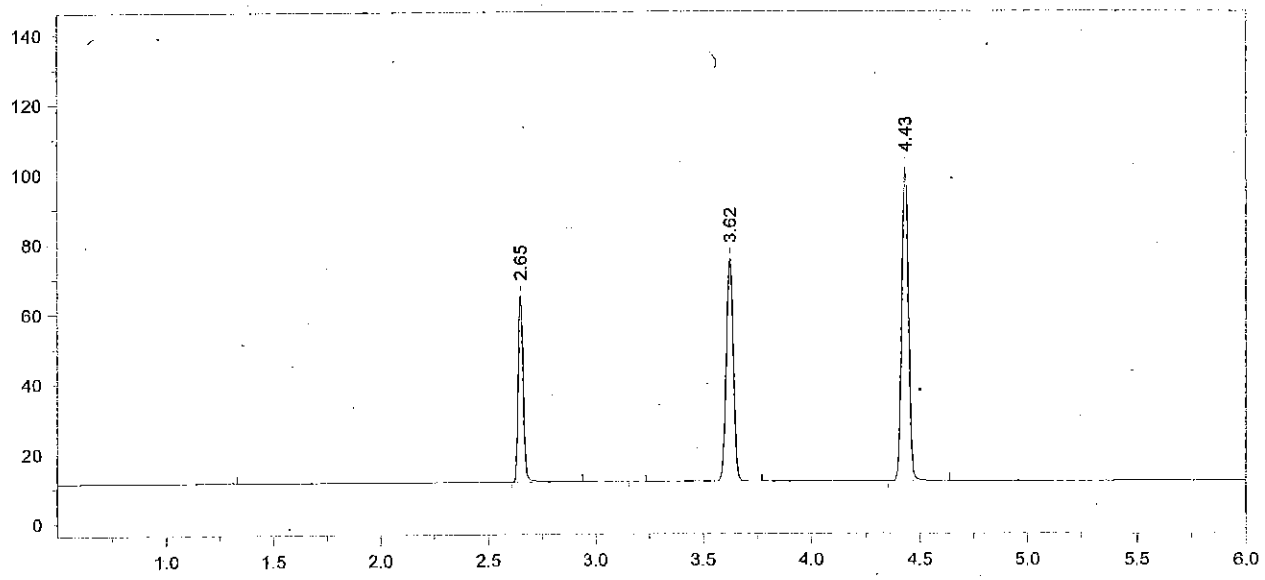


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 6:10:09 PM
Bound File Name = VFL03182014.0031.RAW
Sample Name = 0.1 SIM ALB
Date Taken = 3/18/2014 6:10:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124797	0.1236	0.1009
4	3.63	t-Butanol	140039	0.9782	0.7984
5	4.44	n-Propanol	191528	1.0000	0.8162

14-02-100 60



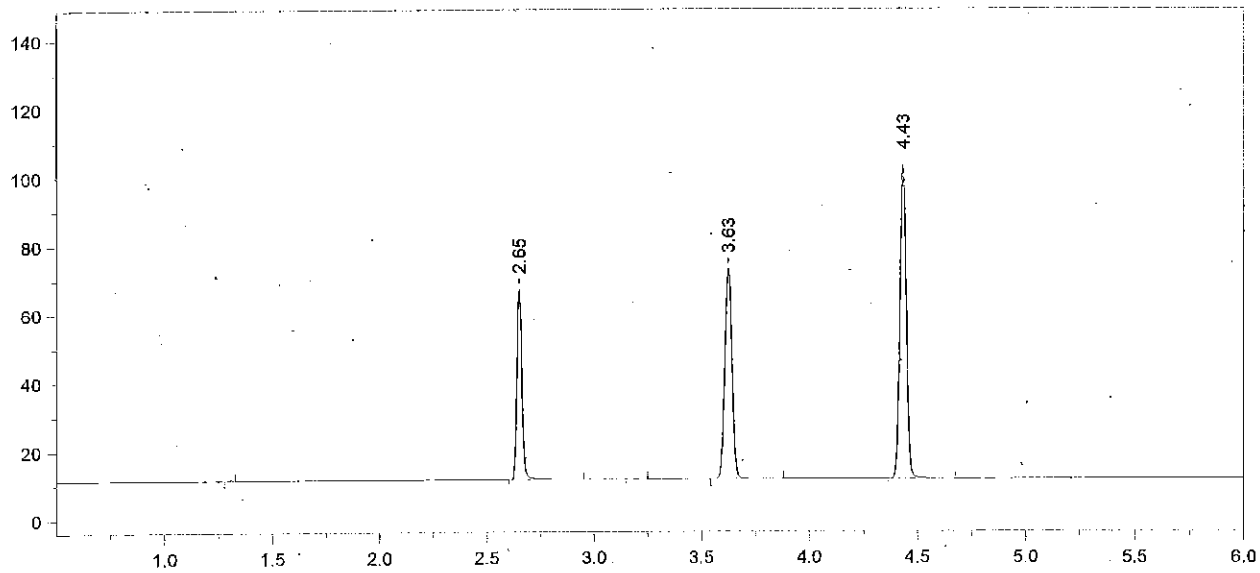
Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 6:27:50 PM
Bound File Name = VFL03182014.0032.RAW
Sample Name = CCS
Date Taken = 3/18/2014 6:27:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84174	0.0838
4	3.62	t-Butanol	148077	1.0398
5	4.43	n-Propanol	190516	1.0000

14-02-100 61 RM

Chrom Perfect Chromatogram Report



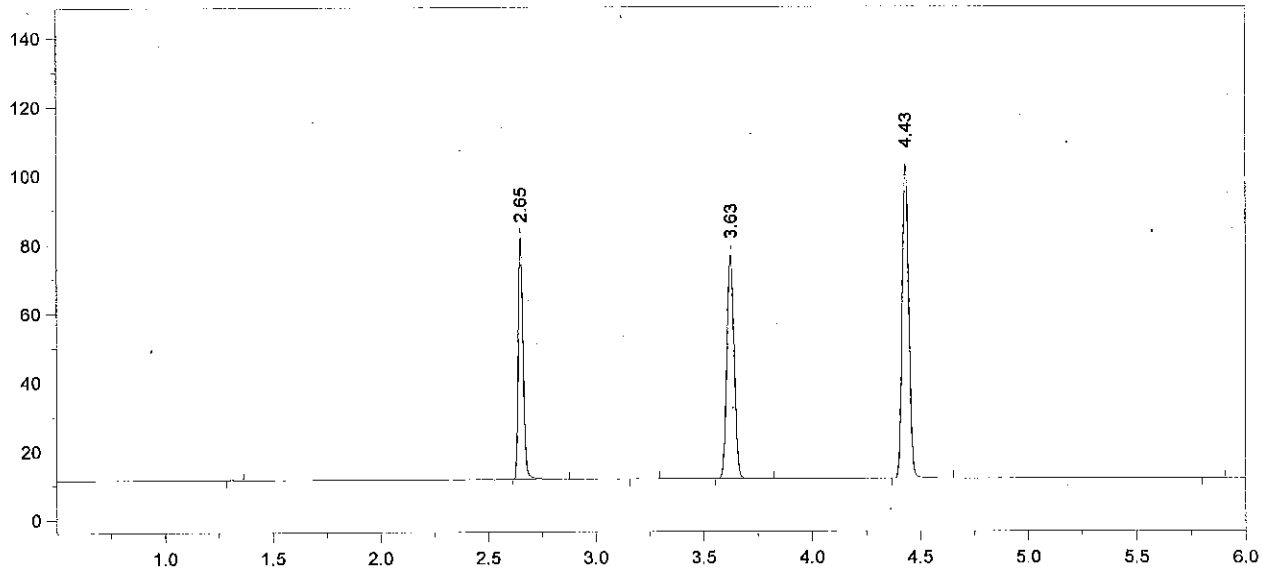
Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 6:41:23 PM
Bound File Name = VFL03182014.0033.RAW
Sample Name = CCS
Date Taken = 3/18/2014 6:41:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87637	0.0857
4	3.63	t-Butanol	142827	0.9851
5	4.43	n-Propanol	193964	1.0000

Avg Vials 32+33 = 0.085
3/19/14

14-02-100 62

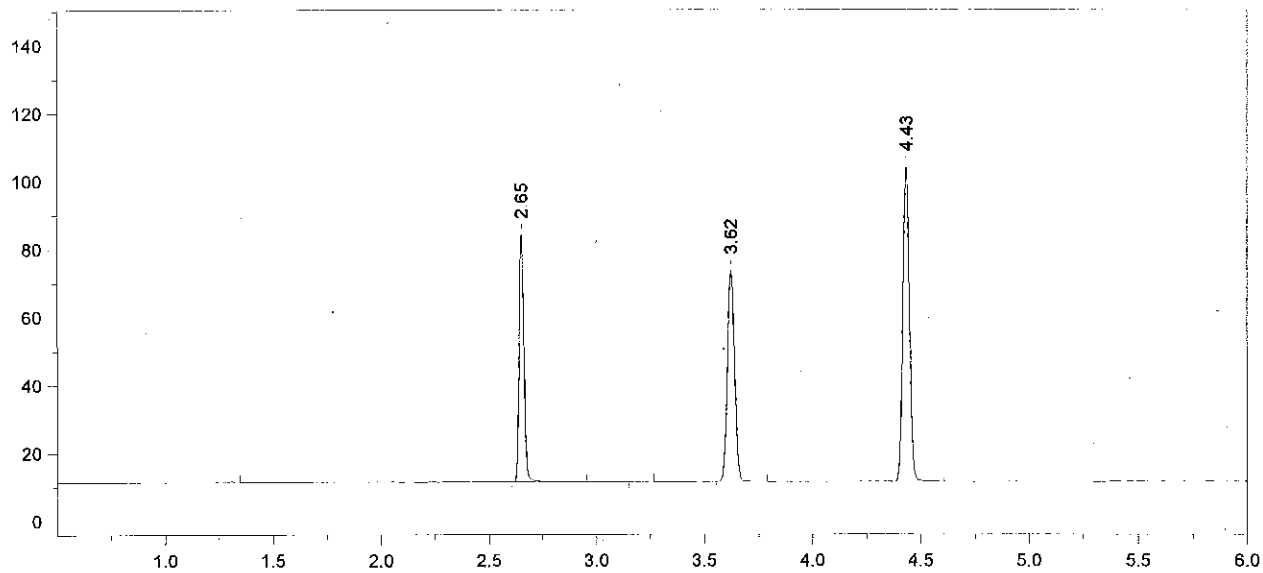


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 6:59:09 PM
Bound File Name = VFL03182014.0034.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 6:59:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	108900	0.1063	0.0868
4	3.63	t-Butanol	150771	1.0379	0.8472
5	4.43	n-Propanol	194338	1.0000	0.8162

14-02-100 63 RLM

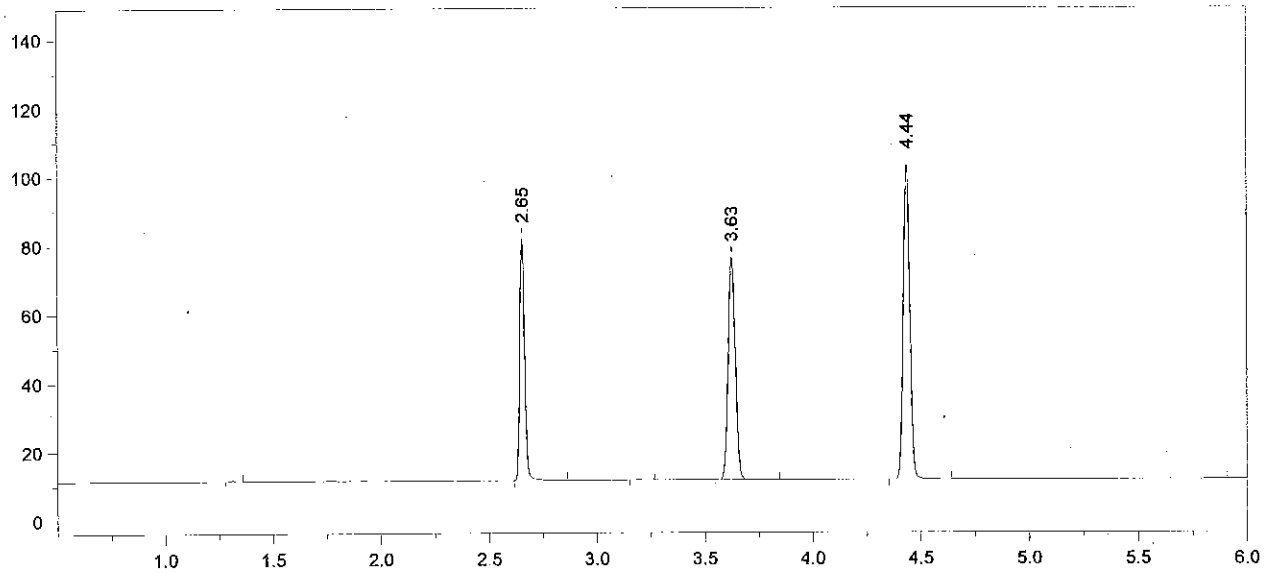


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 7:13:02 PM
Bound File Name = VFL03182014.0035.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 7:12:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	113828	0.1099	0.0897
4	3.62	t-Butanol	144370	0.9831	0.8024
5	4.43	n-Propanol	196464	1.0000	0.8162

14-02-100 64 RZM

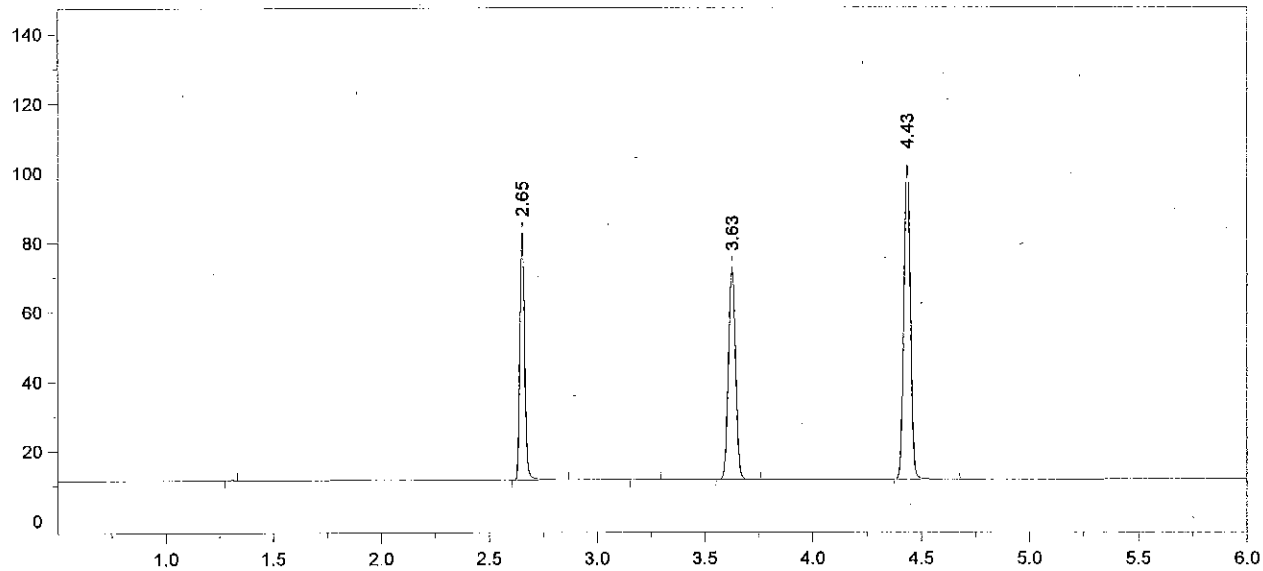


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 7:30:36 PM
Bound File Name = VFL03182014.0036.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 7:30:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	109649	0.1069	0.0873
4	3.63	t-Butanol	150092	1.0320	0.8423
5	4.44	n-Propanol	194573	1.0000	0.8162

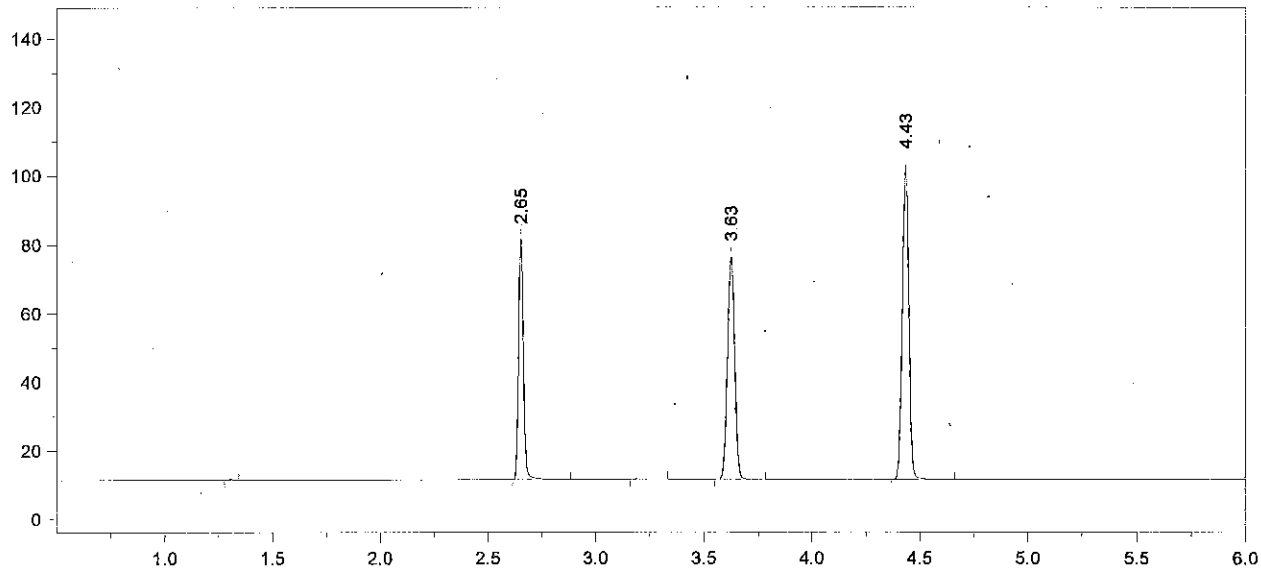
14-02-100 65



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 7:44:23 PM
Bound File Name = VFL03182014.0037.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 7:44:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	110486	0.1089	0.0889
4	3.63	t-Butanol	141388	0.9831	0.8024
5	4.43	n-Propanol	192401	1.0000	0.8162

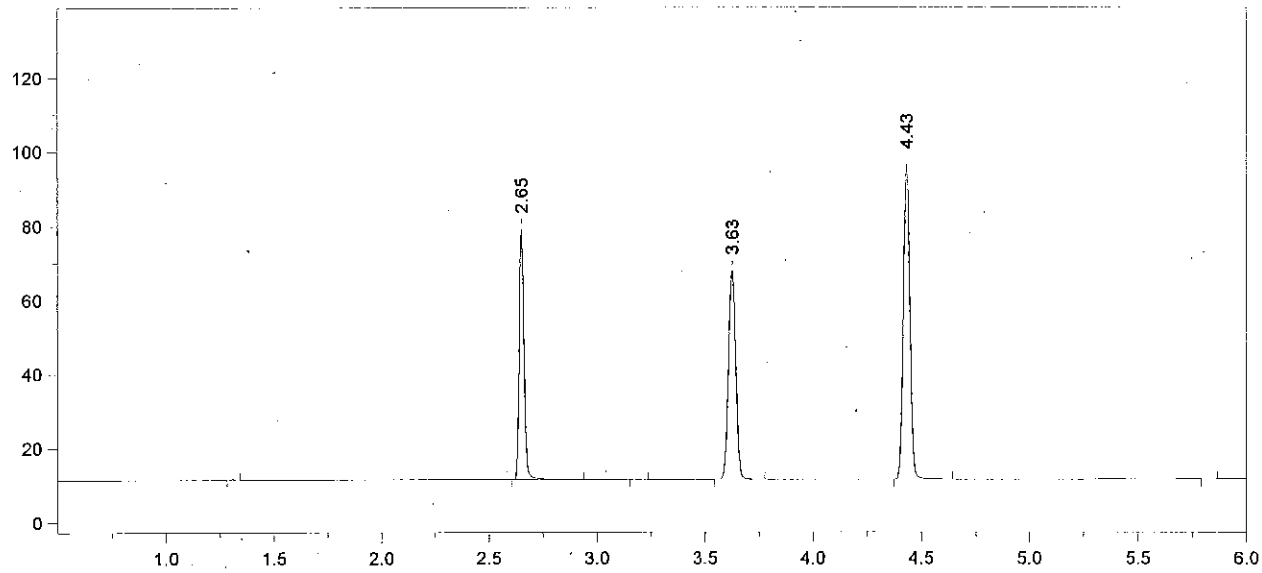


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 8:02:04 PM
Bound File Name = VFL03182014.0038.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 8:01:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	109045	0.1067	0.0871
4	3.63	t-Butanol	150382	1.0376	0.8469
5	4.43	n-Propanol	193892	1.0000	0.8162

14-02-100 67

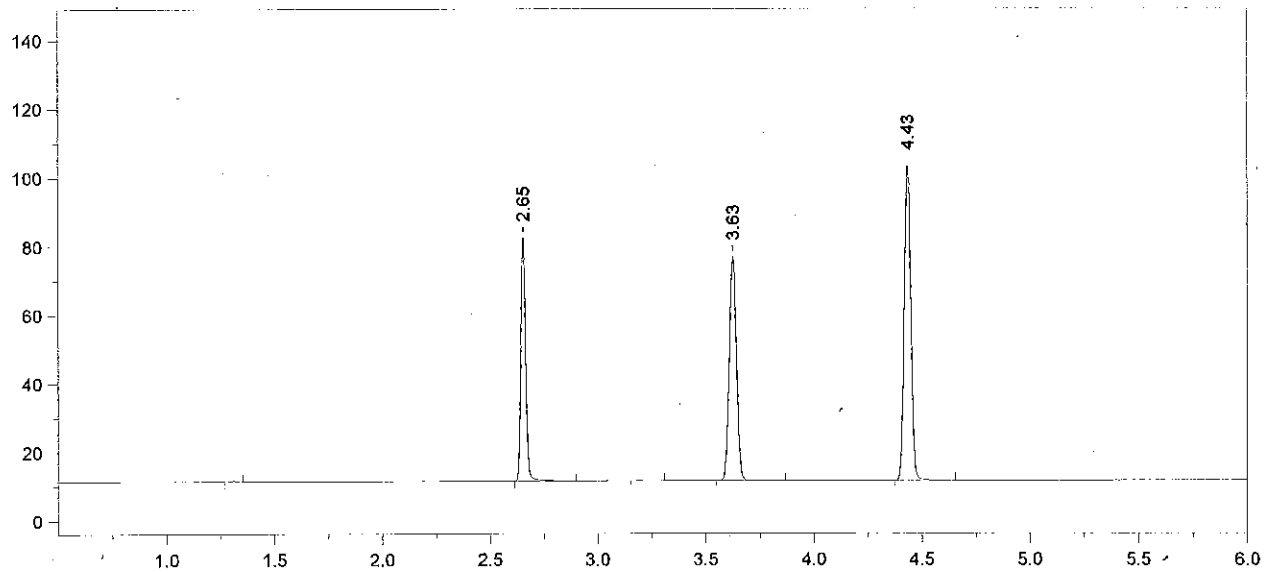


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 8:15:34 PM
Bound File Name = VFL03182014.0039.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 8:15:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	105627	0.1113	0.0909
4	3.63	t-Butanol	130578	0.9706	0.7922
5	4.43	n-Propanol	179986	1.0000	0.8162

14-02-100 68 RLM



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/18/2014
Today's Time = 8:33:25 PM
Bound File Name = VFL03182014.0040.RAW
Sample Name = 0.1 SIM RLM
Date Taken = 3/18/2014 8:33:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL03182014.CAL
Calibration Version = 7

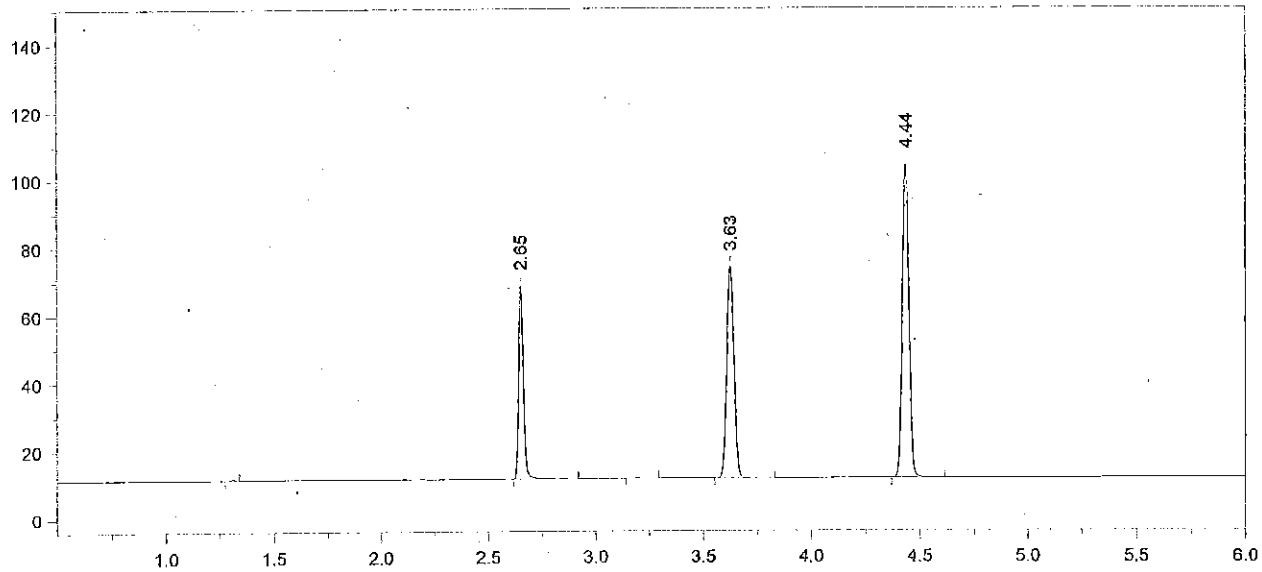
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	110299	0.1070	0.0873
4	3.63	t-Butanol	151528	1.0361	0.8457
5	4.43	n-Propanol	195653	1.0000	0.8162

Avg vals #25-31 + 34-~~35~~40 = 0.0938
RZM 3/21/14

Range = 0.0868 - 0.1009

RPD = 15%

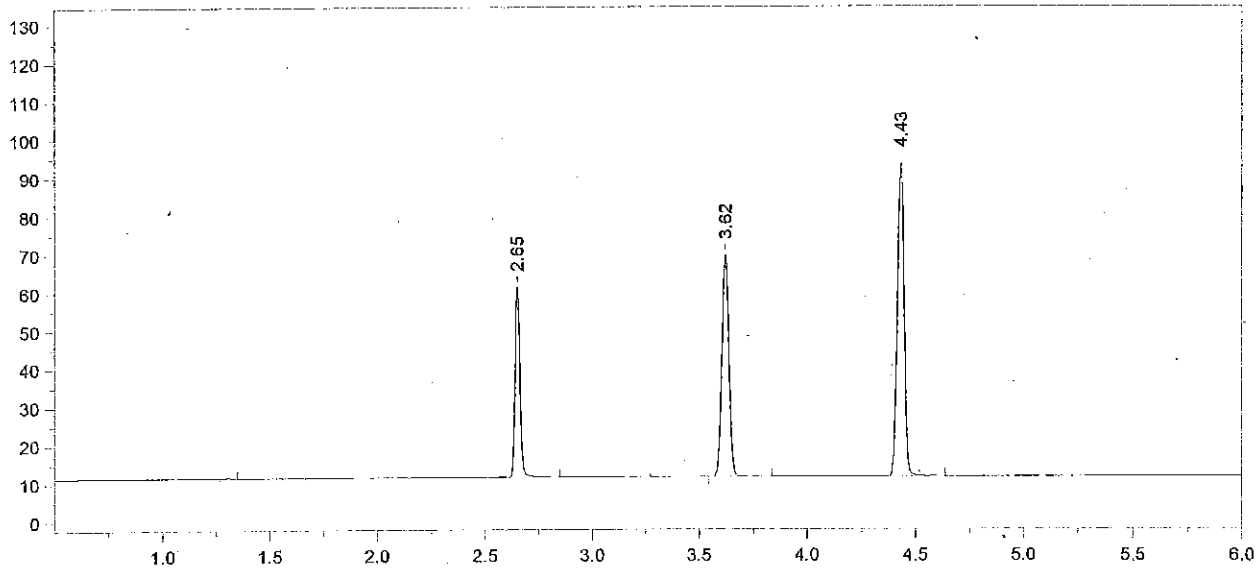
Data from this run not used to calculate overall average.
RZM 3/21/14



Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 8:47:13 PM
Bound File Name = VFL03182014.0041.RAW
Sample Name = CCS
Date Taken = 3/18/2014 8:47:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88787	0.0855
4	3.63	t-Butanol	144593	0.9823
5	4.44	n-Propanol	196926	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 3/18/2014
Today's Time = 9:03:18 PM
Bound File Name = VFL03182014.0042.RAW
Sample Name = CCS
Date Taken = 3/18/2014 9:03:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL03182014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	77749	0.0844
4	3.62	t-Butanol	134229	1.0273
5	4.43	n-Propanol	174806	1.0000

Avg vials 41 + 42 = 0.085
3/19/14

14-02-100 71

File Name: C:\Methods\SIM03202014.CAL
Version: 7

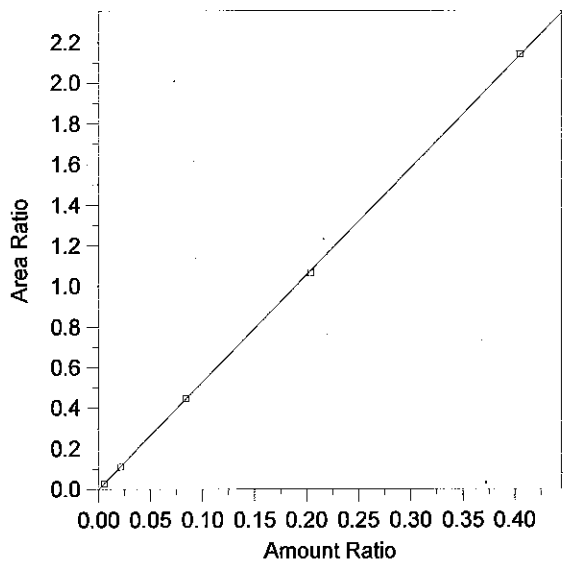
Creator:
Description:
Reason for change:

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 = 5.273698 X + 0

Linear fit with equal weighting, forced to origin

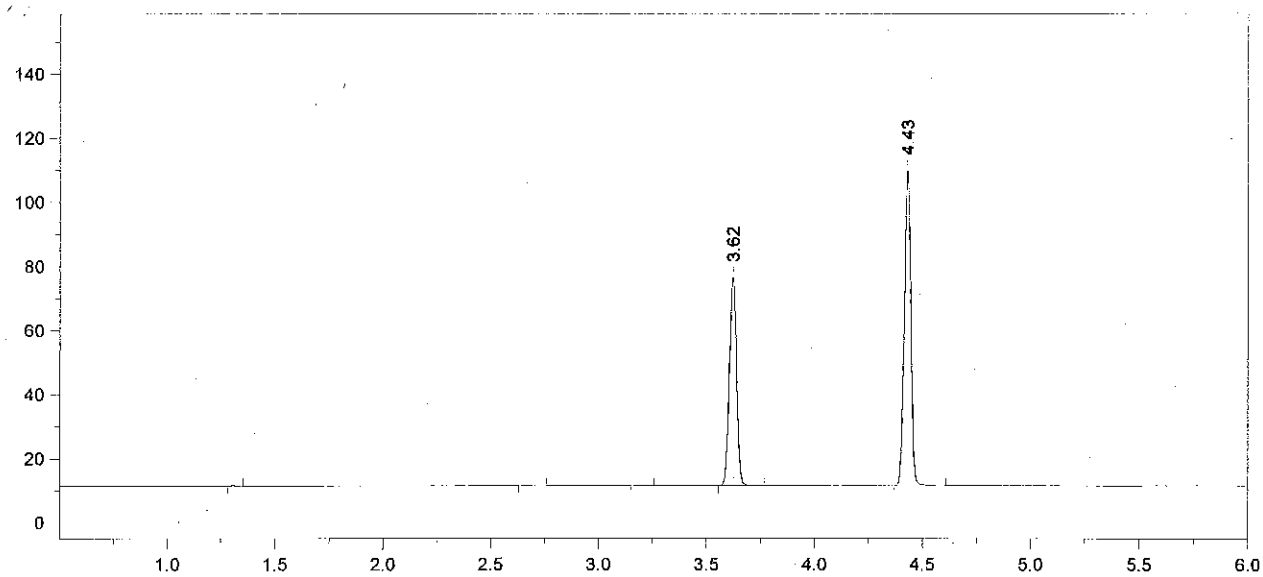
Coefficient of determination:	0.999909
Average error:	0.586%
Average CF:	5.266006
RSD:	0.802%

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	0.0053	5664.895	1068848	0.104	0.0053	2.797979E-02	C:\Alcohol Data\SIM03202014\SIM03202014.0003.BND	3/20/2014 12:52:40 PM
3	0.0211	23142.59	1096805	-0.449	0.0211	0.1107758	C:\Alcohol Data\SIM03202014\SIM03202014.0004.BND	3/20/2014 1:10:27 PM
4	0.0841	88676.85	1054422	0.671	0.0841	0.4464936	C:\Alcohol Data\SIM03202014\SIM03202014.0005.BND	3/20/2014 1:24:07 PM
5	0.2043	213874.1	1046863	-1.380	0.2043	1.062549	C:\Alcohol Data\SIM03202014\SIM03202014.0006.BND	3/20/2014 1:41:57 PM
6	0.4047	441937.6	1092013	0.324	0.4047	2.141178	C:\Alcohol Data\SIM03202014\SIM03202014.0007.BND	3/20/2014 1:55:06 PM

File Name = C:\Alcohol Data\SIM03202014\SIM03202014.SEQ
Version = 1
File Date = 3/20/2014 11:44:54 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM03202014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM03202014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM03202014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM03202014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM03202014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM03202014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM03202014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM03202014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM03202014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM03202014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM03202014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM03202014.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	SIM03202014.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	SIM03202014.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	SIM03202014.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	SIM03202014.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	SIM03202014.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	SIM03202014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	SIM03202014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM03202014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM03202014.0021.raw	simsoln.met	0.1 TLC	1.00	1.00
22	SIM03202014.0022.raw	simsoln.met	0.1 TLC	1.00	1.00
23	SIM03202014.0023.raw	simsoln.met	0.1 TLC	1.00	1.00
24	SIM03202014.0024.raw	simsoln.met	0.1 TLC	1.00	1.00
25	SIM03202014.0025.raw	simsoln.met	0.1 TLC	1.00	1.00
26	SIM03202014.0026.raw	simsoln.met	0.1 TLC	1.00	1.00
27	SIM03202014.0027.raw	simsoln.met	0.1 TLC	1.00	1.00
28	SIM03202014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM03202014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Std Lot # ES-12202013
IS Lot # IS-10312013
TMX Lot # TMX-08122013
AQ QC Lot # Cerilliant FN021111-03
RZR 3/21/14

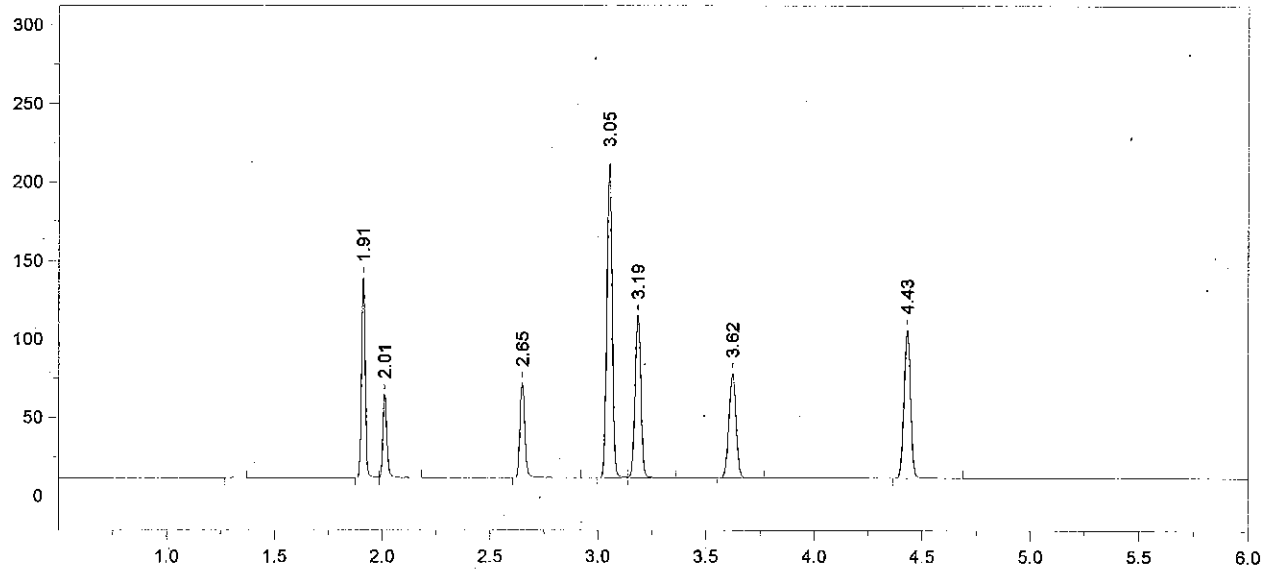


Format File Name = AlcoholVFL.FMT

Today's Date = 3/21/2014
Today's Time = 9:30:07 AM
Bound File Name = SIM03202014.0001.RAW
Sample Name = Blank
Date Taken = 3/20/2014 12:21:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	150336	0.9714
5	4.43	n-Propanol	207726	1.0000

14-02-100 74 KM

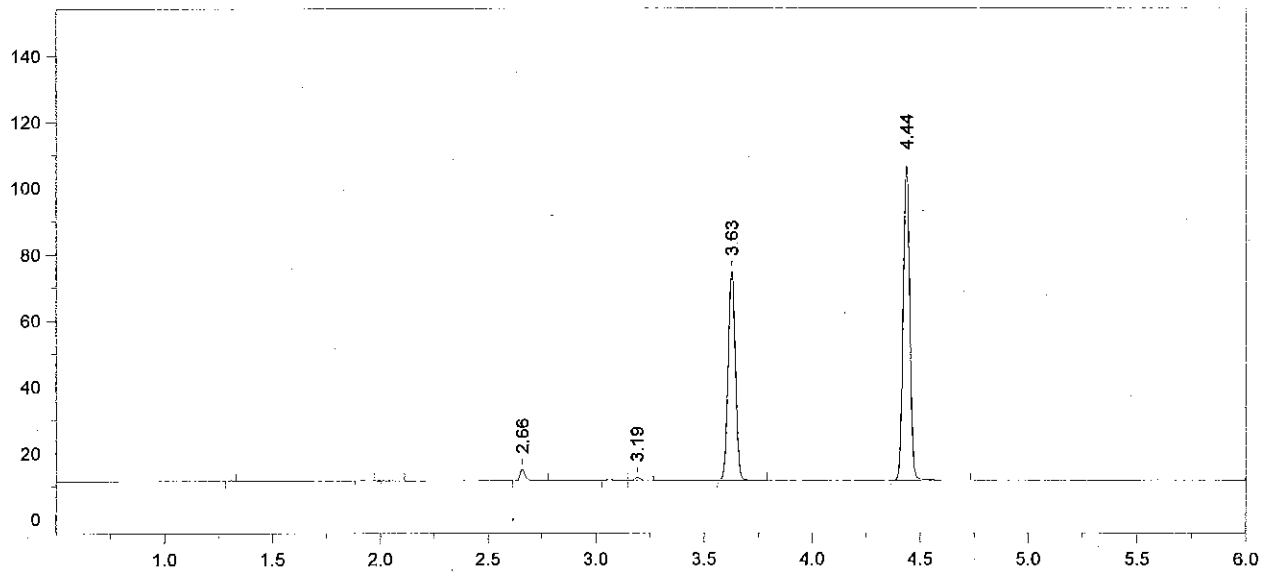


Format File Name = AlcoholVFL.FMT

Today's Date = 3/21/2014
Today's Time = 9:30:13 AM
Bound File Name = SIM03202014.0002.RAW
Sample Name = TMX
Date Taken = 3/20/2014 12:38:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	150330	0.0520
3	2.01	Methanol	68336	0.1370
4	2.65	Ethanol	94706	0.0895
5	3.05	Acetone	344379	0.0940
6	3.19	Isopropanol	195039	0.0850
7	3.62	t-Butanol	153841	1.0287
8	4.43	n-Propanol	200722	1.0000

14-02-100 75

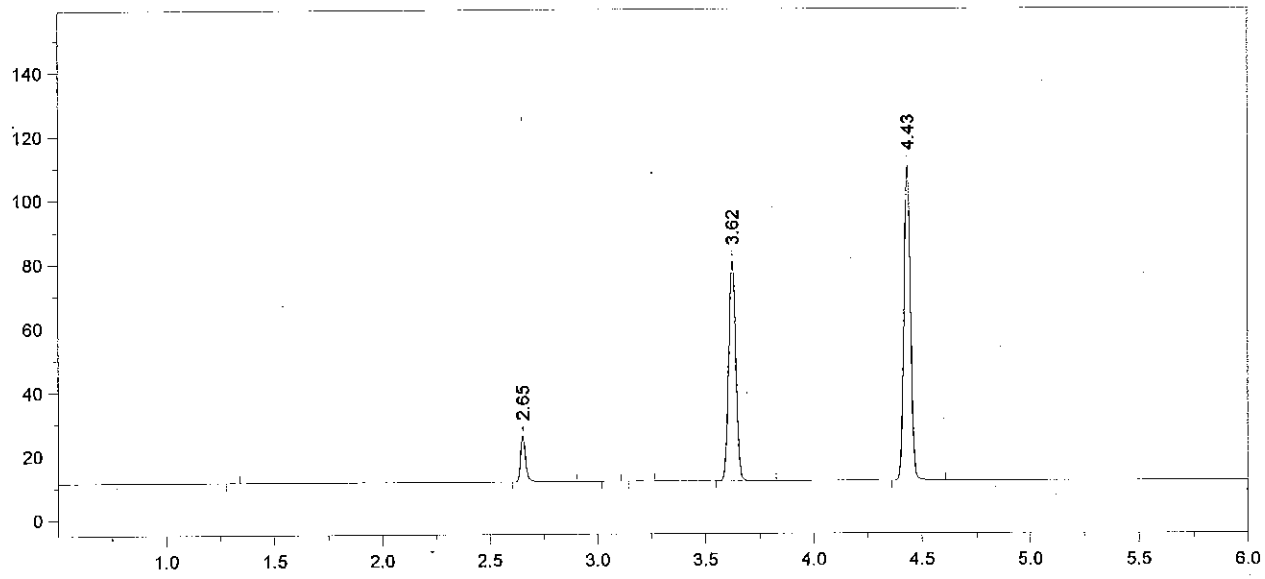


Format File Name = AlcoholVFL.FMT

Today's Date = 3/21/2014
Today's Time = 9:30:18 AM
Bound File Name = SIM03202014.0003.RAW
Sample Name = STD A
Date Taken = 3/20/2014 12:52:36 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	05665	0.0053 *
6	3.19	Isopropanol	01615	<0.004
7	3.63	t-Butanol	146570	0.9716
8	4.44	n-Propanol	202464	1.0000

14-02-100 76 RZM



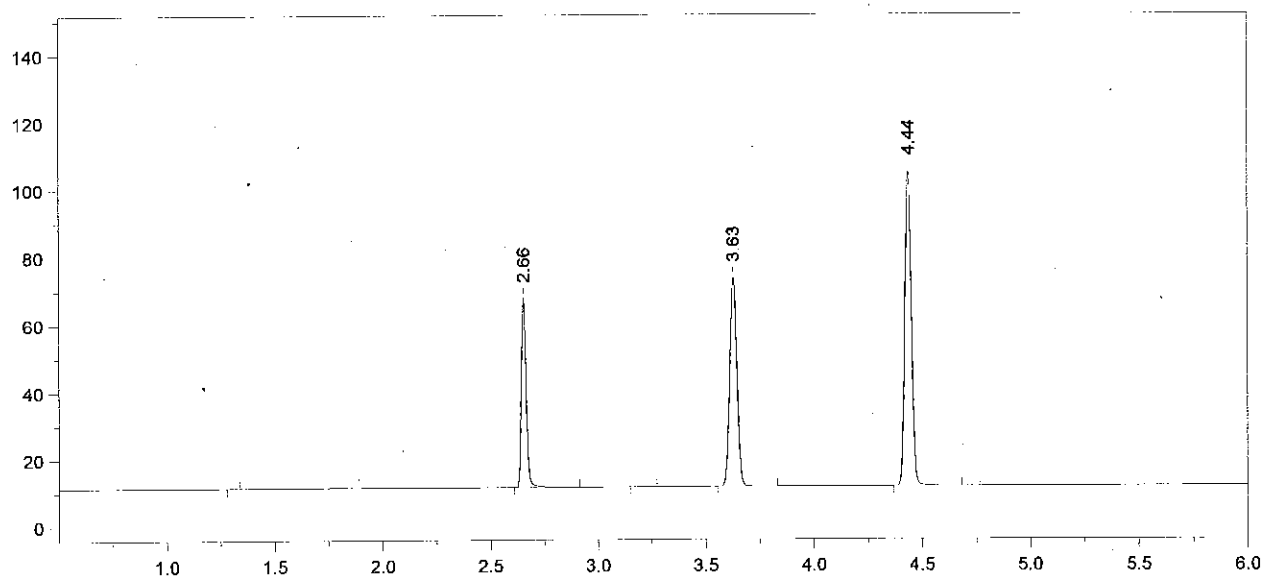
Format File Name = AlcoholVFL.FMT

Today's Date = 3/21/2014
Today's Time = 9:30:24 AM
Bound File Name = SIM03202014.0004.RAW
Sample Name = STD B
Date Taken = 3/20/2014 1:10:23 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	23143	0.0210
5	3.62	t-Butanol	159235	1.0230
6	4.43	n-Propanol	208914	1.0000

14-02-100 77

Chrom Perfect Chromatogram Report



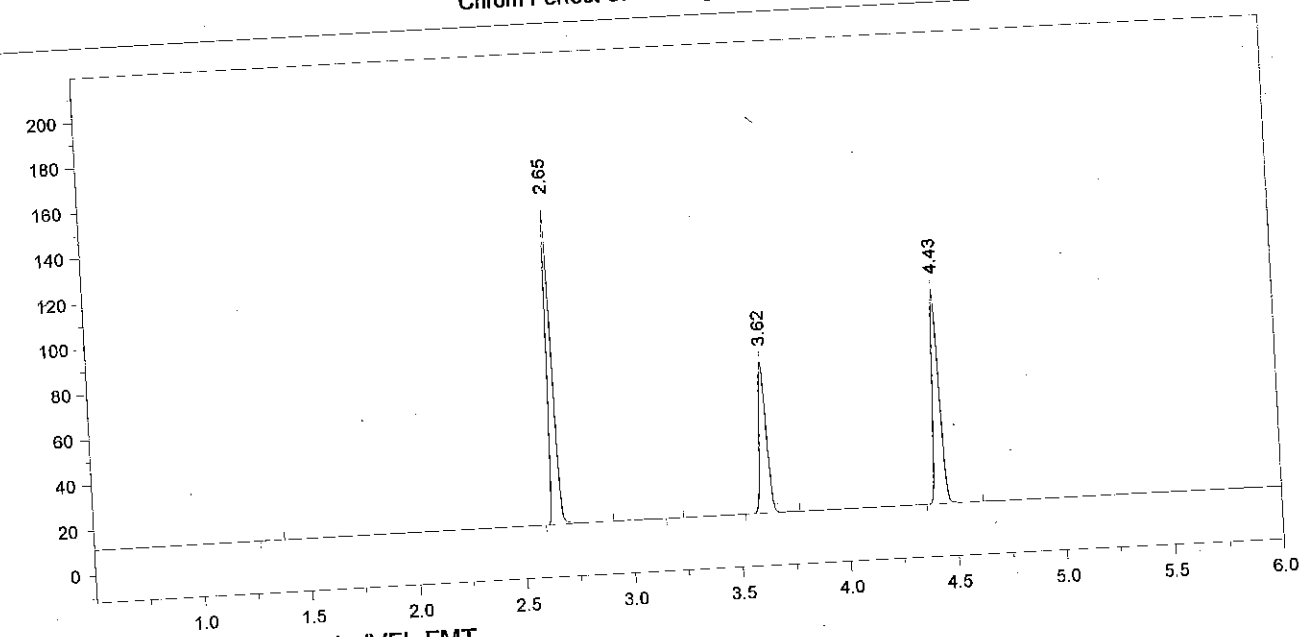
Format File Name = AlcoholVFL.FMT

Today's Date = 3/21/2014
Today's Time = 9:30:31 AM
Bound File Name = SIM03202014.0005.RAW
Sample Name = STD C
Date Taken = 3/20/2014 1:24:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	88677	0.0847
4	3.63	t-Butanol	144013	0.9732
5	4.44	n-Propanol	198607	1.0000

14-02-100 78

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Time = 9:30:36 AM

Today's Date = 3/21/2014
Bound File Name = SIM03202014.0006.RAW
Sample Name = STD D
Date Taken = 3/20/2014 1:41:47 PM
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL

VFL Headspace Alcohol

Calibration Version = 7

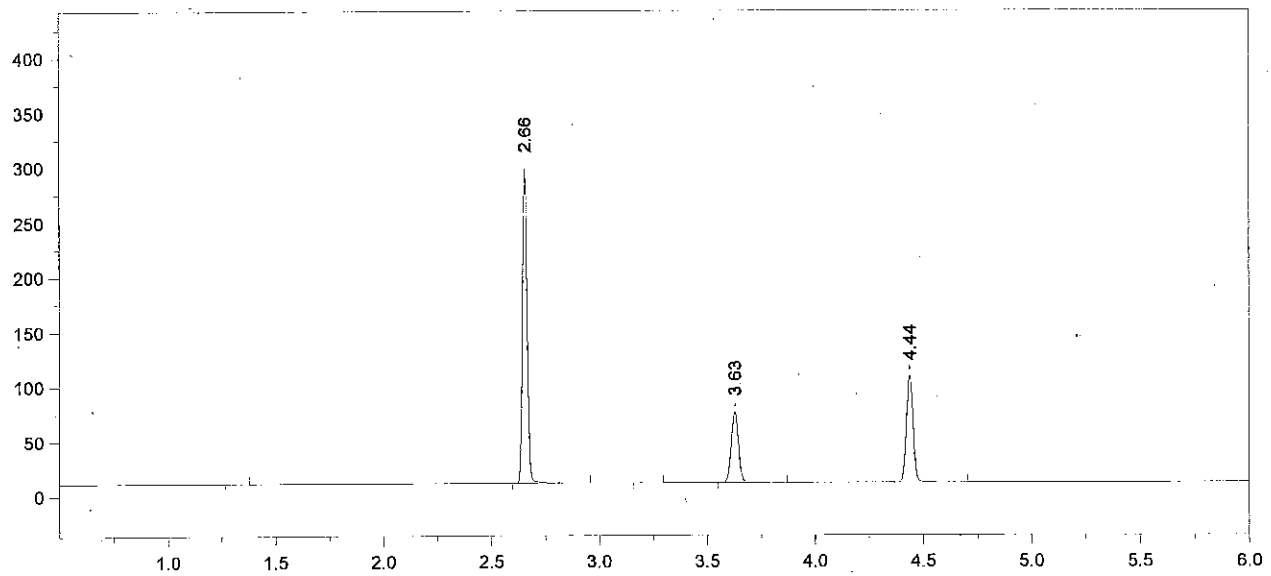
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	213874	0.2015 *
4	3.62	t-Butanol	154686	1.0315
5	4.43	n-Propanol	201284	1.0000

Printed on 3/21/2014 9:30:37 AM

79

14-02-100

KM



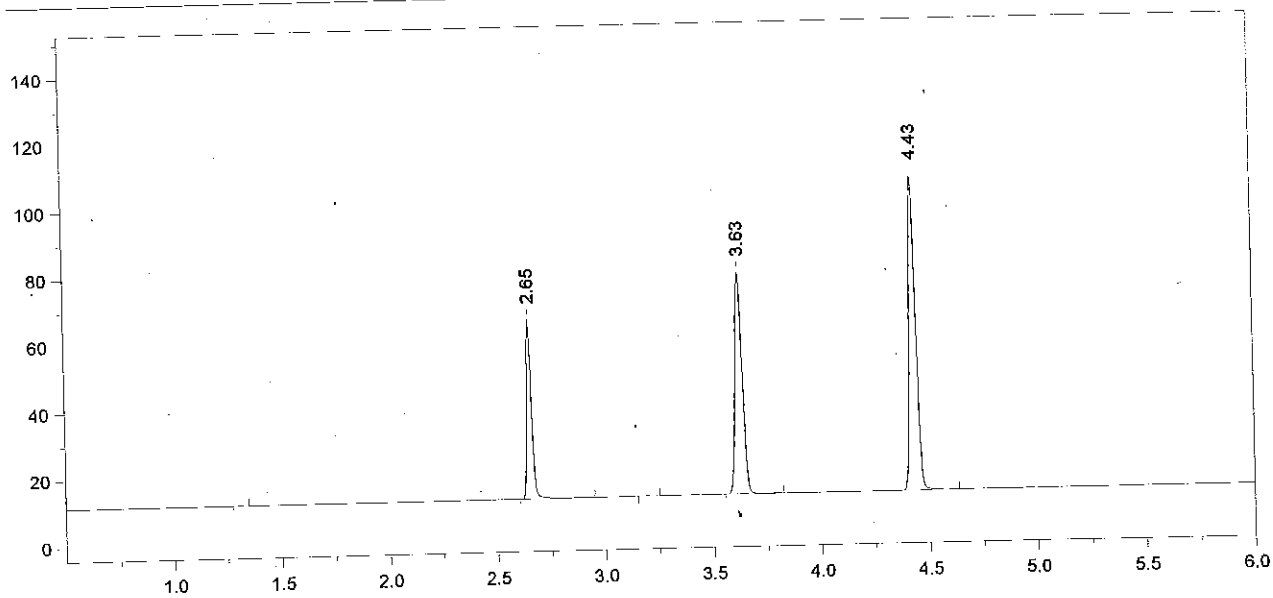
Format File Name = AlcoholVFL.FMT

Today's Date = 3/21/2014
Today's Time = 9:30:42 AM
Bound File Name = SIM03202014.0007.RAW
Sample Name = STD E
Date Taken = 3/20/2014 1:55:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	441938	0.4060*
4	3.63	t-Butanol	149462	0.9719
5	4.44	n-Propanol	206399	1.0000

14-02-100 80

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0008.RAW
Sample Name = AQ QC
Date Taken = 3/20/2014 2:13:11 PM
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL

Today's Time = 2:13:19 PM

VFL Headspace Alcohol

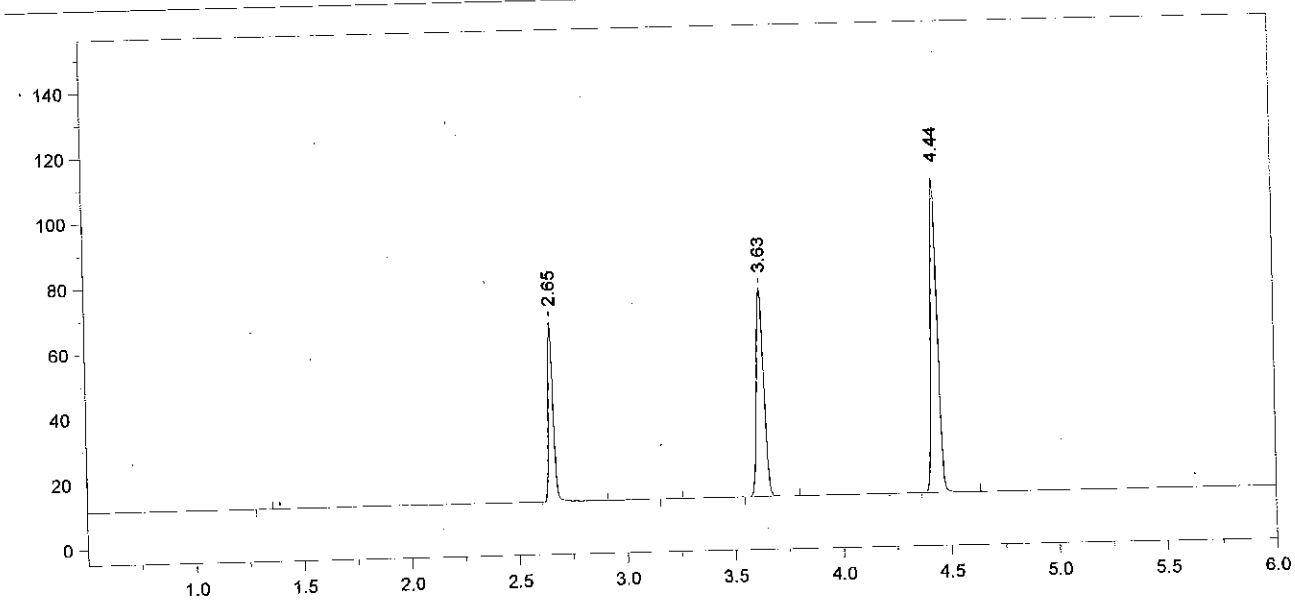
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83795	0.0795 *
4	3.63	t-Butanol	153541	1.0315
5	4.43	n-Propanol	199781	1.0000

Printed on 3/20/2014 2:13:19 PM

14-02-100 81 KEM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0009.RAW
Sample Name = AQ QC
Date Taken = 3/20/2014 2:26:54 PM
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL

Today's Time = 2:27:02 PM

VFL Headspace Alcohol

Calibration Version = 7

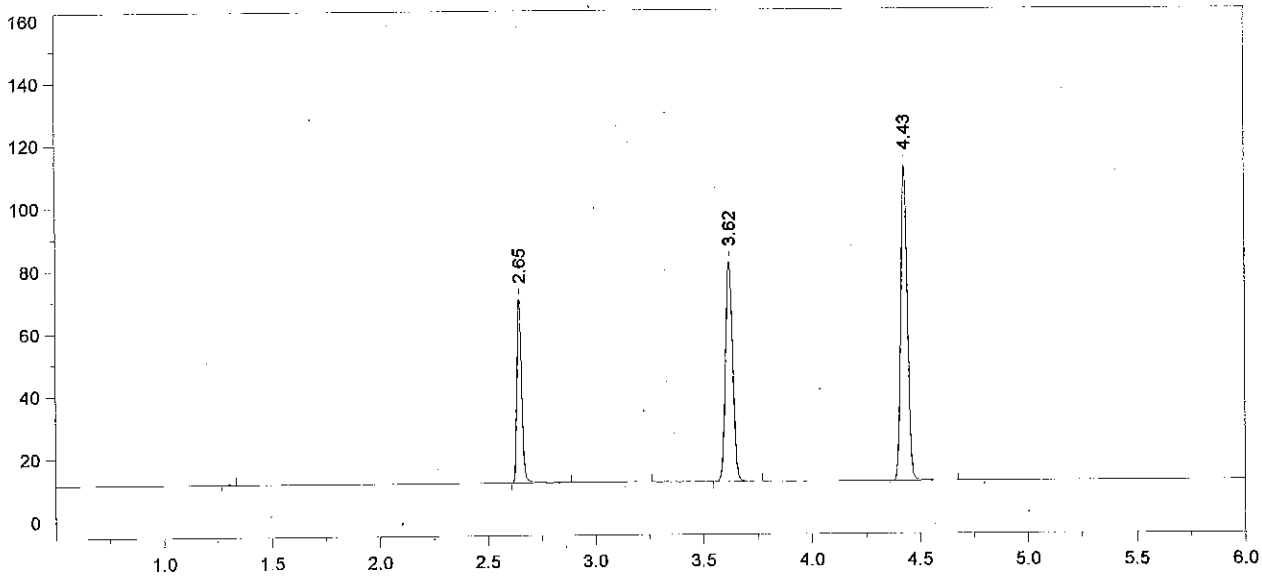
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86620	0.0801
4	3.63	t-Butanol	148550	0.9728
5	4.44	n-Propanol	204951	1.0000

Avg #8 + #9 = 0.080
Target value: 0.080
% recovery = 100%
KLM 3/21/14

Printed on 3/20/2014 2:27:02 PM

14-02-100 82 KLM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

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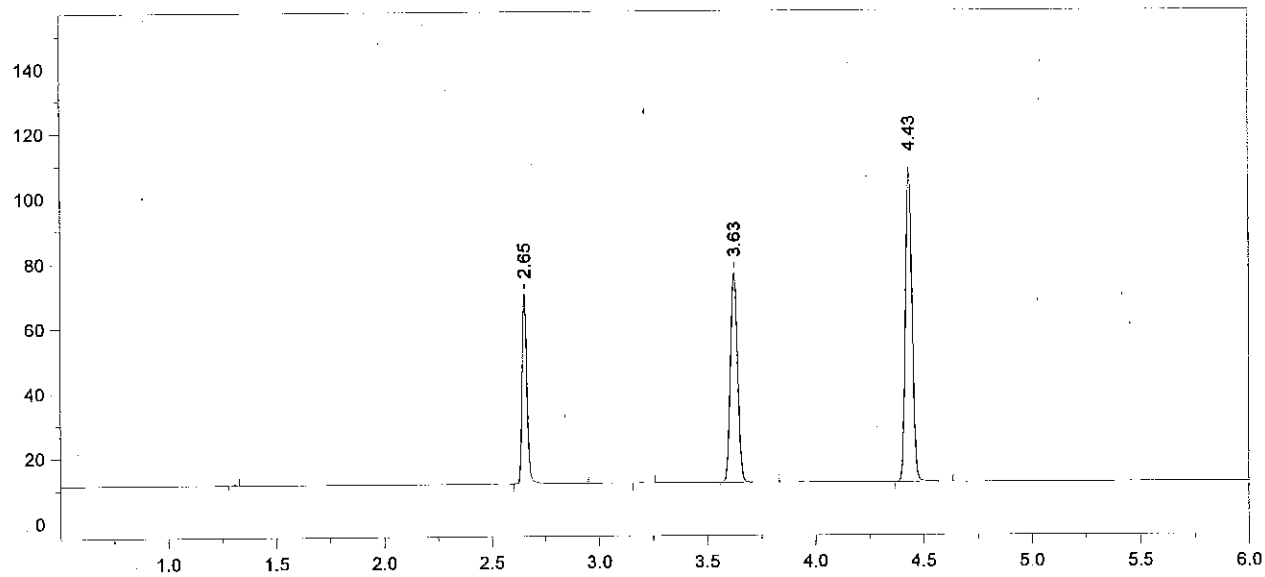
Sample Name = CCS
Date Taken = 3/20/2014 2:42:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	92584	0.0822
4	3.62	t-Butanol	163140	1.0250
5	4.43	n-Propanol	213628	1.0000

14-02-100 83 KLM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

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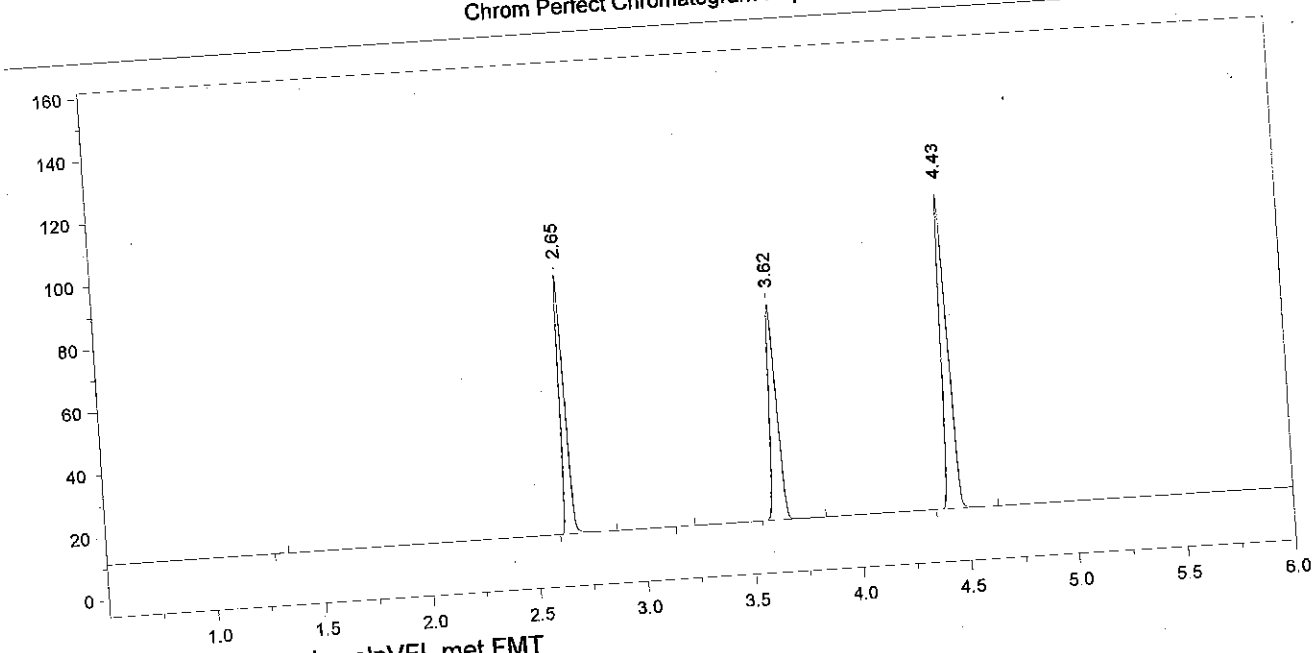
Today's Time = 2:58:01 PM
Bound File Name = SIM03202014.0011.RAW
Sample Name = CCS
Date Taken = 3/20/2014 2:57:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	91539	0.0842 *
4	3.63	t-Butanol	149469	0.9728
5	4.43	n-Propanol	206215	1.0000

Avg #10 + #11 = 0.083
RZM 3/21/14

14-02-100 84 RZM

Chrom Perfect Chromatogram Report



Format File Name = simsolnVFL.met.FMT

Today's Time = 3:14:35 PM

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0012.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 3:14:28 PM
Method file = simsoln.met
Calibration file = SIM03202014.CAL

VDH Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128571	0.1151	0.0940
4	3.62	t-Butanol	160210	1.0153	0.8287
5	4.43	n-Propanol	211792	1.0000	0.8162

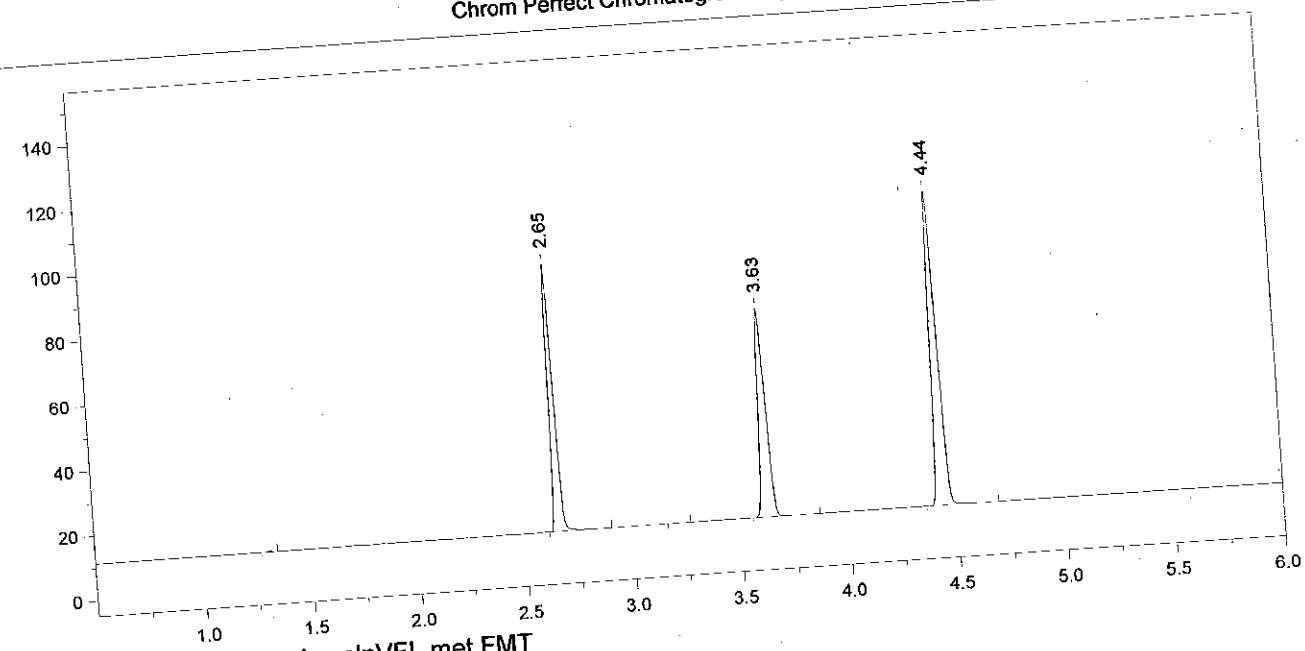
Printed on 3/20/2014 3:14:35 PM

85

RLR

14-02-100

Chrom Perfect Chromatogram Report



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0013.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 3:28:20 PM
Method file = simsoln.met
Calibration file = SIM03202014.CAL

Today's Time = 3:28:28 PM

VDH Headspace Alcohol

Calibration Version = 7

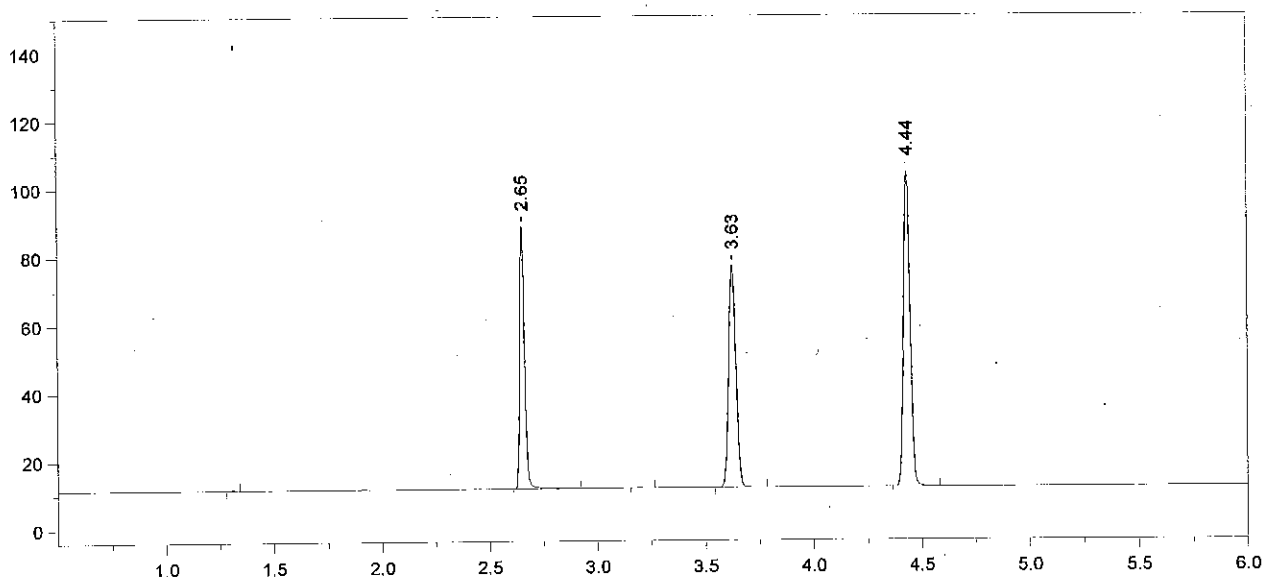
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128226	0.1178	0.0961
4	3.63	t-Butanol	148893	0.9679	0.7900
5	4.44	n-Propanol	206480	1.0000	0.8162

Printed on 3/20/2014 3:28:28 PM

86

RLM

14-02-100

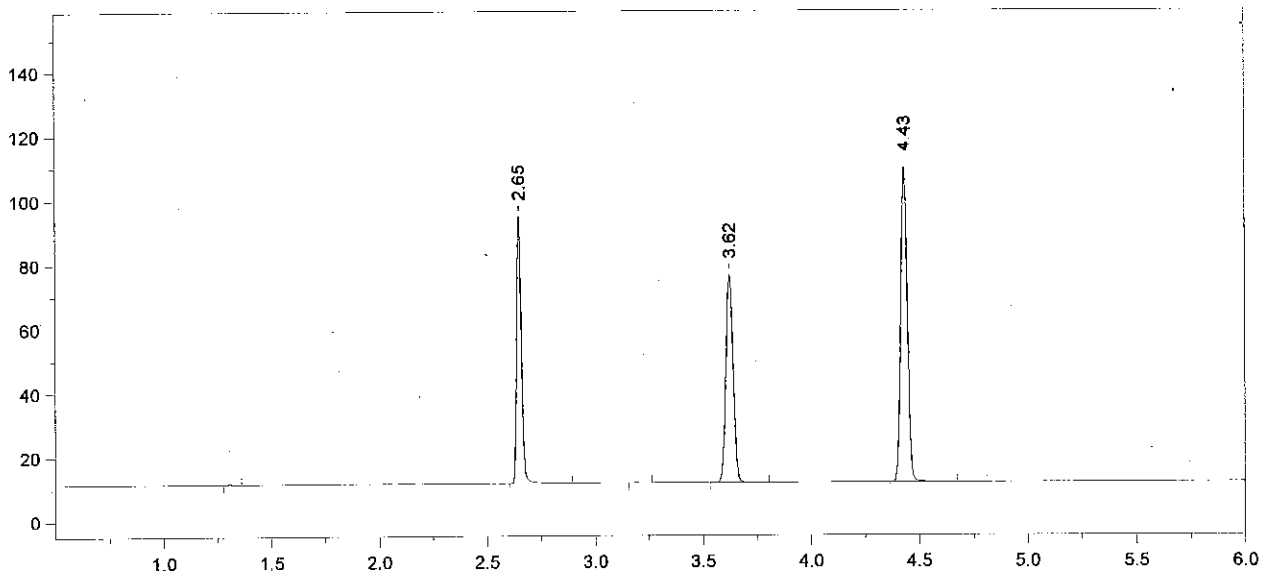


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 3:45:57 PM
Bound File Name = SIM03202014.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 3:45:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	119789	0.1154	0.0942
4	3.63	t-Butanol	151426	1.0330	0.8431
5	4.44	n-Propanol	196748	1.0000	0.8162

14-02-100 87 RLM



Format File Name = simsolnVFL.met.FMT

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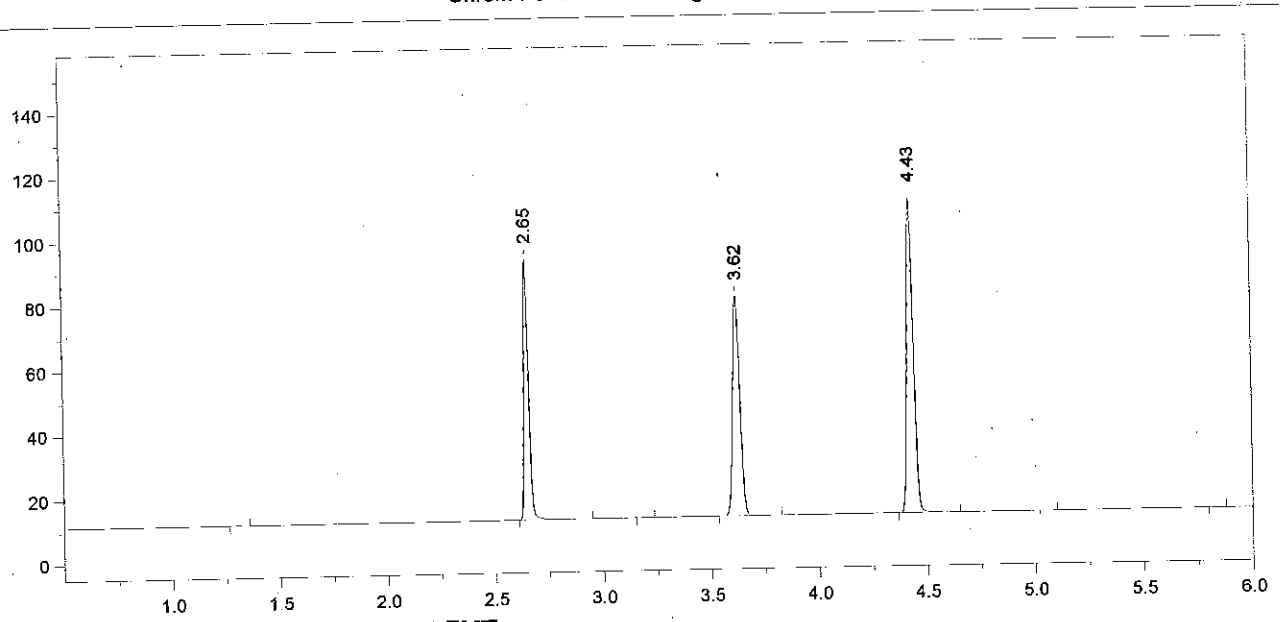
Today's Time = 3:59:45 PM
Bound File Name = SIM03202014.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 3:59:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129404	0.1175	0.0959
4	3.62	t-Butanol	150617	0.9678	0.7899
5	4.43	n-Propanol	208885	1.0000	0.8162

14-02-100 88

Chrom Perfect Chromatogram Report



Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 4:17:19 PM
Method file = simsoln.met
Calibration file = SIM03202014.CAL

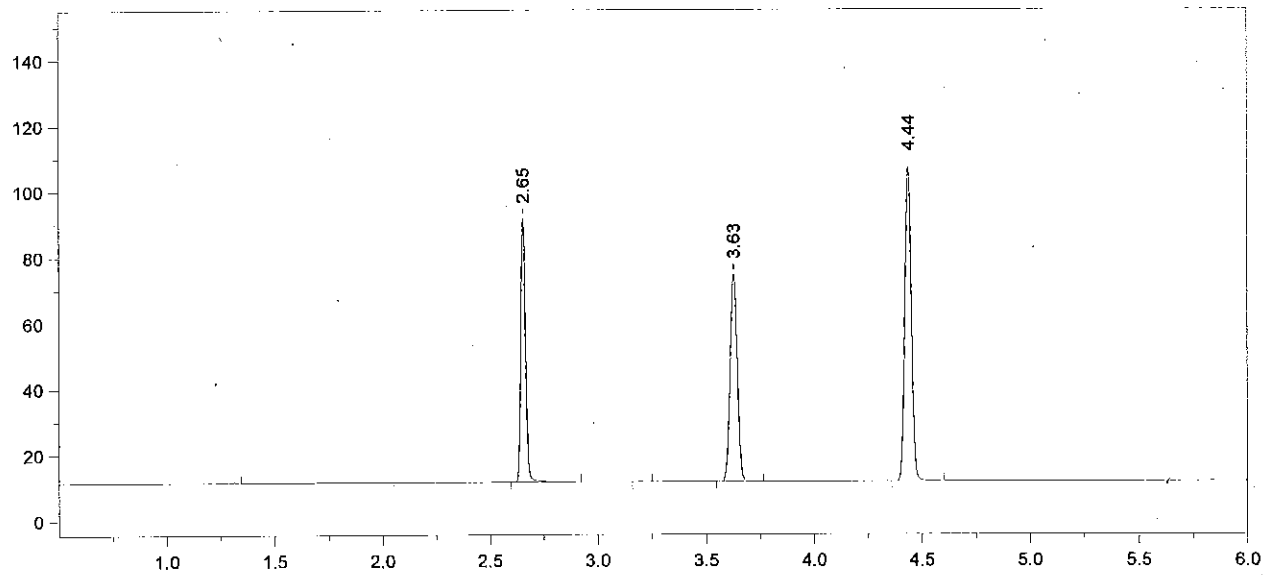
Today's Time = 4:17:26 PM

VDH Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125591	0.1151	0.0940
4	3.62	t-Butanol	157994	1.0253	0.8368
5	4.43	n-Propanol	206832	1.0000	0.8162

14-02-100 89 RLM



Format File Name = simsolnVFL.met.FMT

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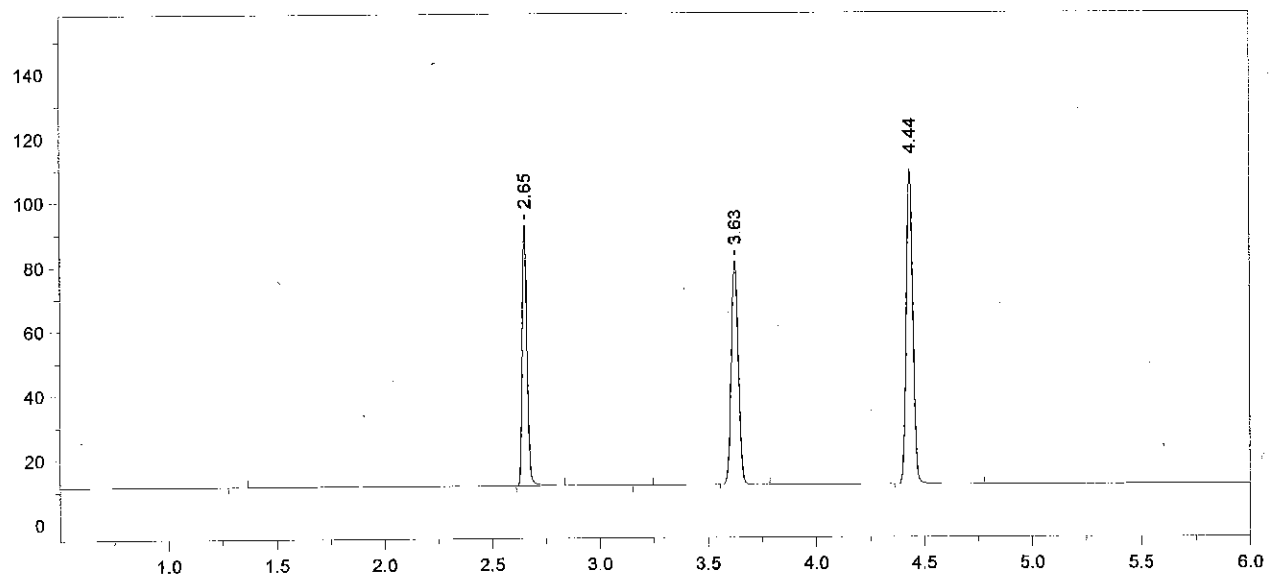
Today's Time = 4:31:18 PM
Bound File Name = SIM03202014.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 4:31:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126079	0.1182	0.0964
4	3.63	t-Butanol	146255	0.9702	0.7919
5	4.44	n-Propanol	202329	1.0000	0.8162

14-02-100 90



Format File Name = simsolnVFL.met.FMT

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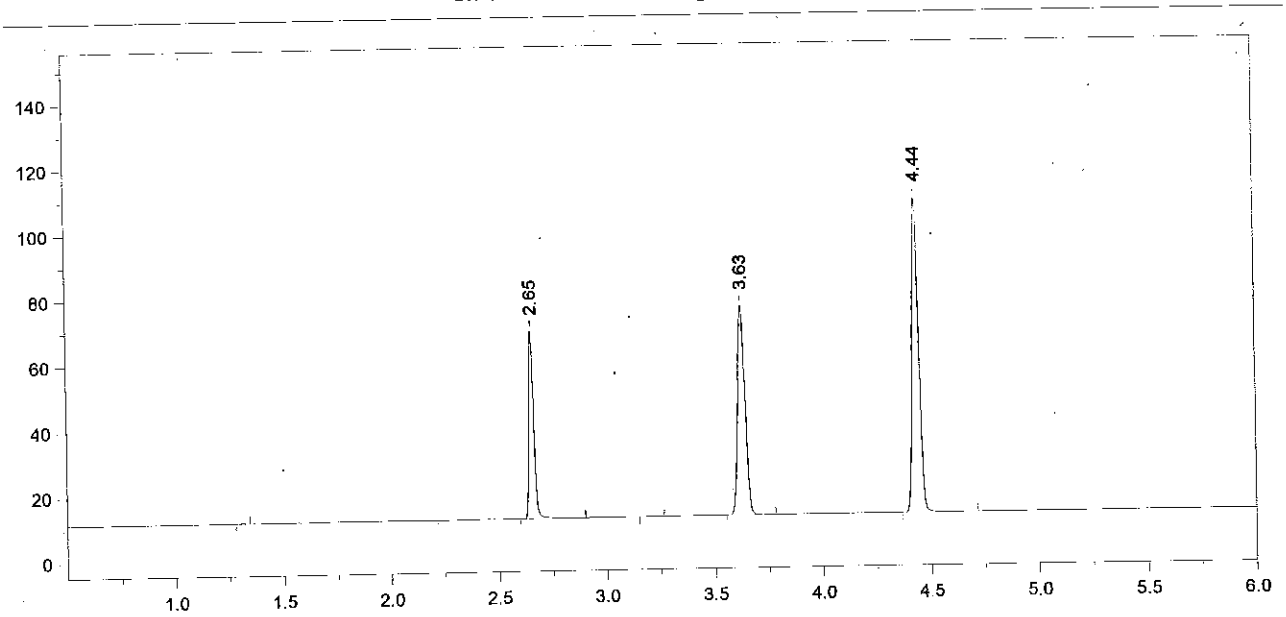
Today's Time = 4:48:47 PM
Bound File Name = SIM03202014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 3/20/2014 4:48:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125448	0.1139	0.0929
4	3.63	t-Butanol	161269	1.0362	0.8457
5	4.44	n-Propanol	208895	1.0000	0.8162

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0019.RAW
Sample Name = CCS
Date Taken = 3/20/2014 5:02:31 PM
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL

Today's Time = 5:02:41 PM

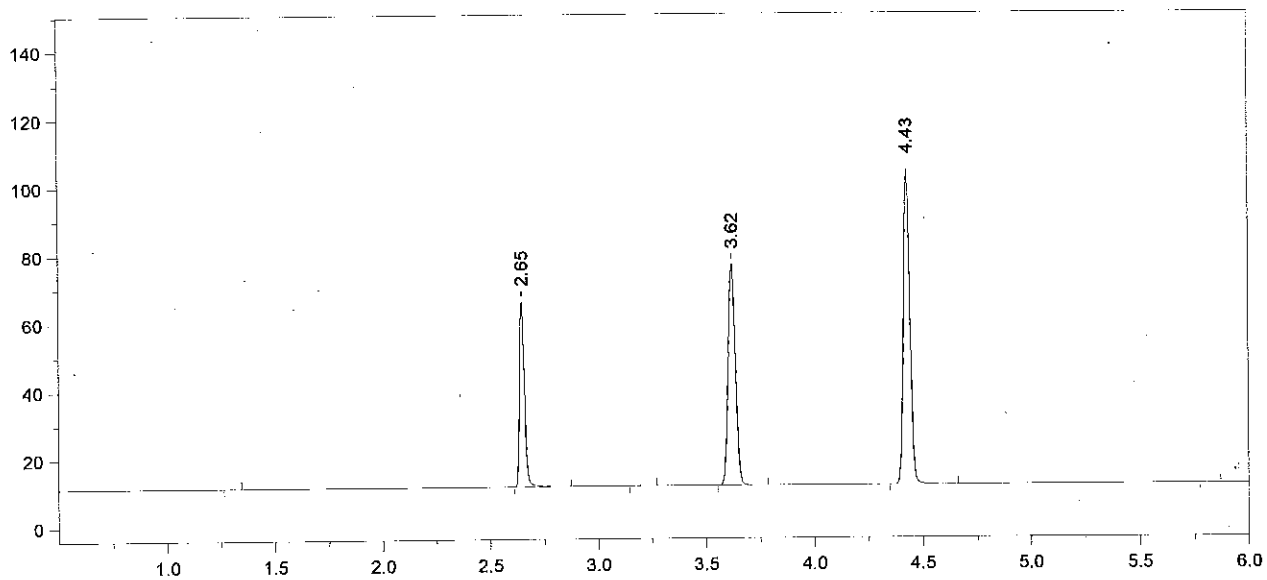
VFL Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	90685	0.0843
4	3.63	t-Butanol	148517	0.9770
5	4.44	n-Propanol	204037	1.0000

14-02-100 92

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

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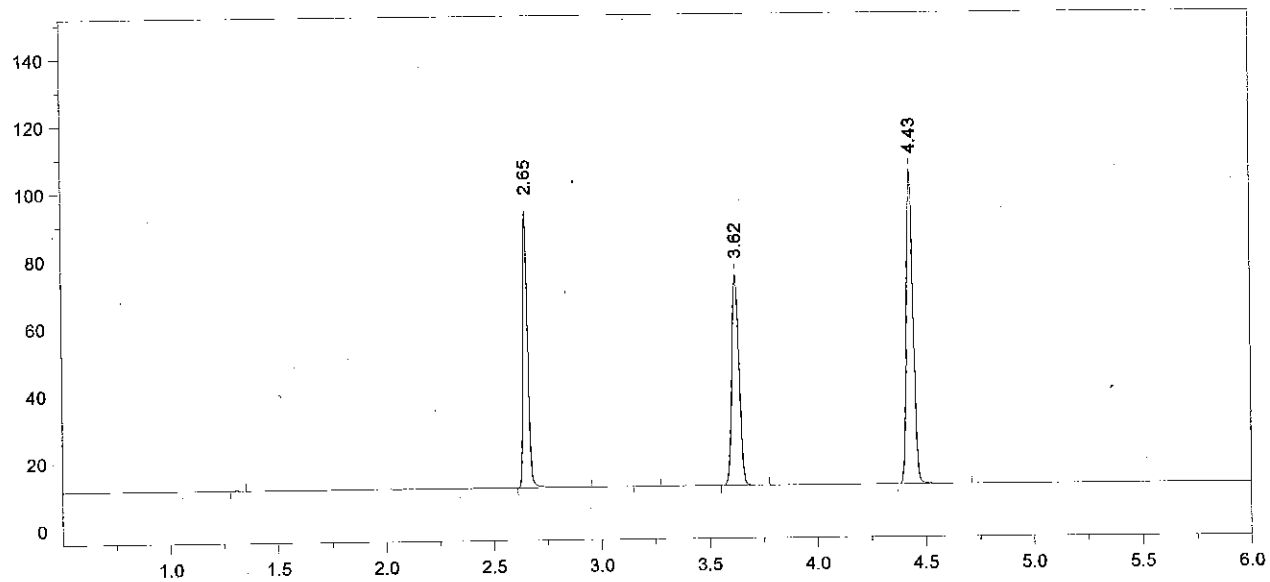
Today's Time = 5:20:14 PM
Bound File Name = SIM03202014.0020.RAW
Sample Name = CCS
Date Taken = 3/20/2014 5:20:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85237	0.0824 *
4	3.62	t-Butanol	150652	1.0312
5	4.43	n-Propanol	196079	1.0000

Avg #19 + #20 = 0.083
RZn 3/21/14

14-02-100 93 RZn

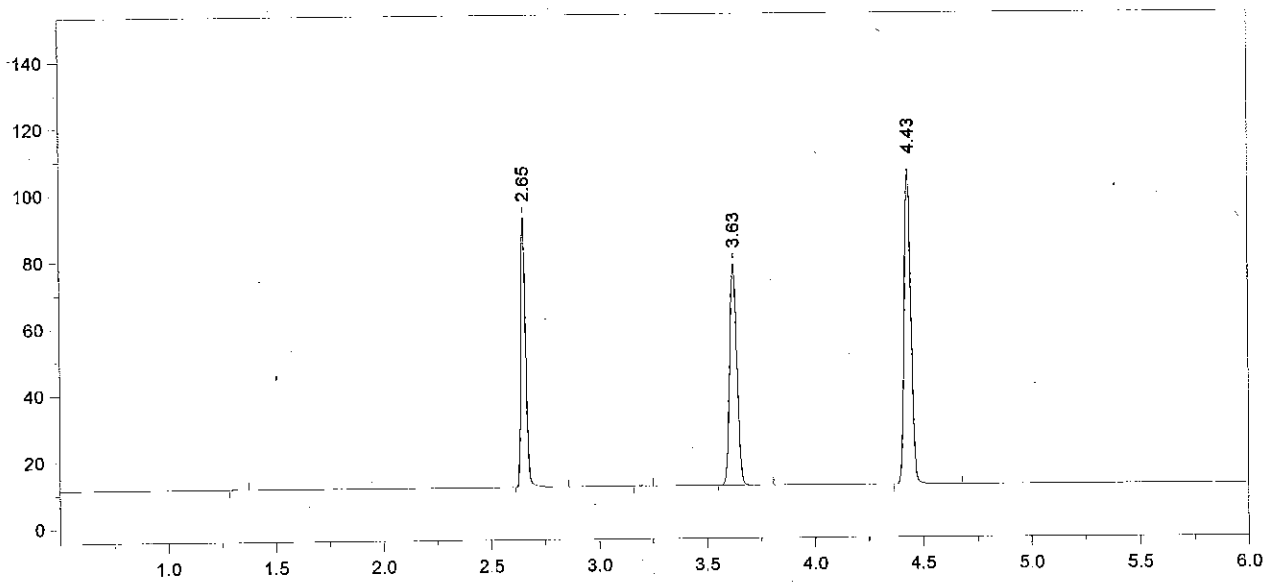


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 5:34:20 PM
Bound File Name = SIM03202014.0021.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 5:34:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128242	0.1218	0.0994
4	3.62	t-Butanol	145739	0.9799	0.7998
5	4.43	n-Propanol	199628	1.0000	0.8162

14-02-100 94 RZM



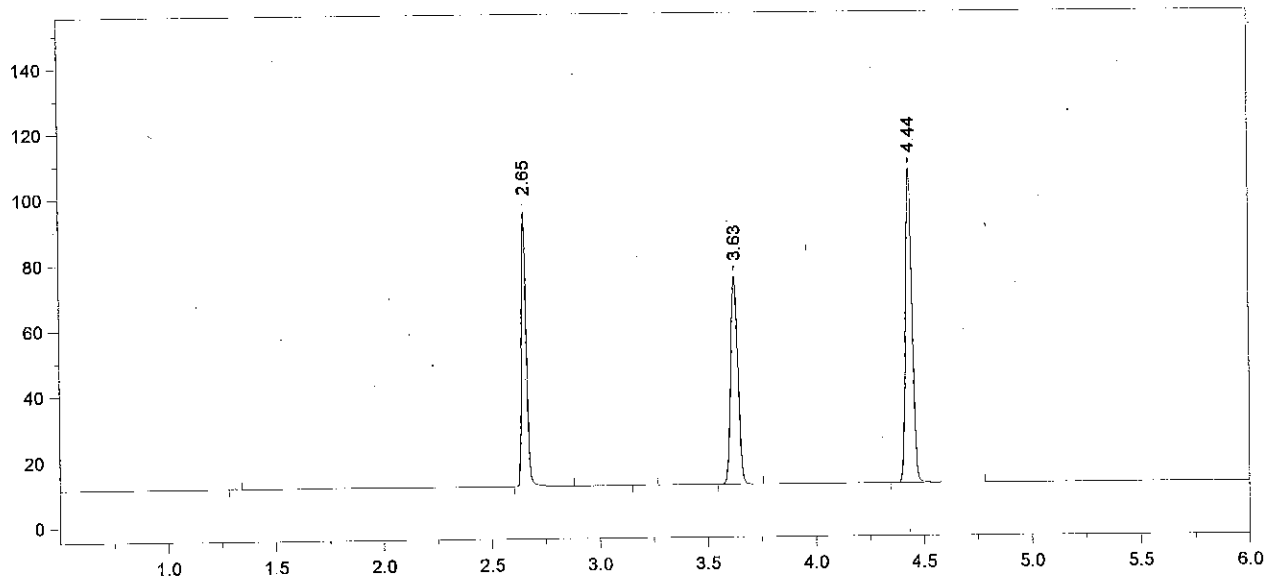
Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 5:51:42 PM
Bound File Name = SIM03202014.0022.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 5:51:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125865	0.1187	0.0969
4	3.63	t-Butanol	154164	1.0294	0.8402
5	4.43	n-Propanol	201014	1.0000	0.8162

14-02-100 95 RZ

Chrom Perfect Chromatogram Report

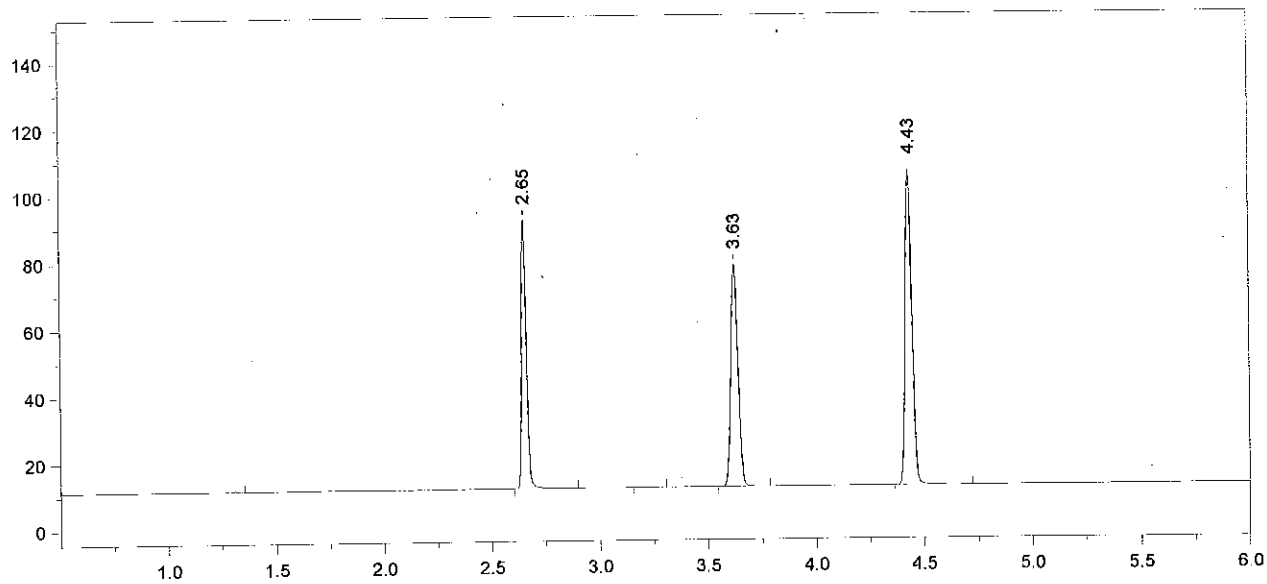


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 6:05:17 PM
Bound File Name = SIM03202014.0023.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 6:05:12 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130147	0.1211	0.0988
4	3.63	t-Butanol	147178	0.9693	0.7911
5	4.44	n-Propanol	203796	1.0000	0.8162

14-02-100 96 RM

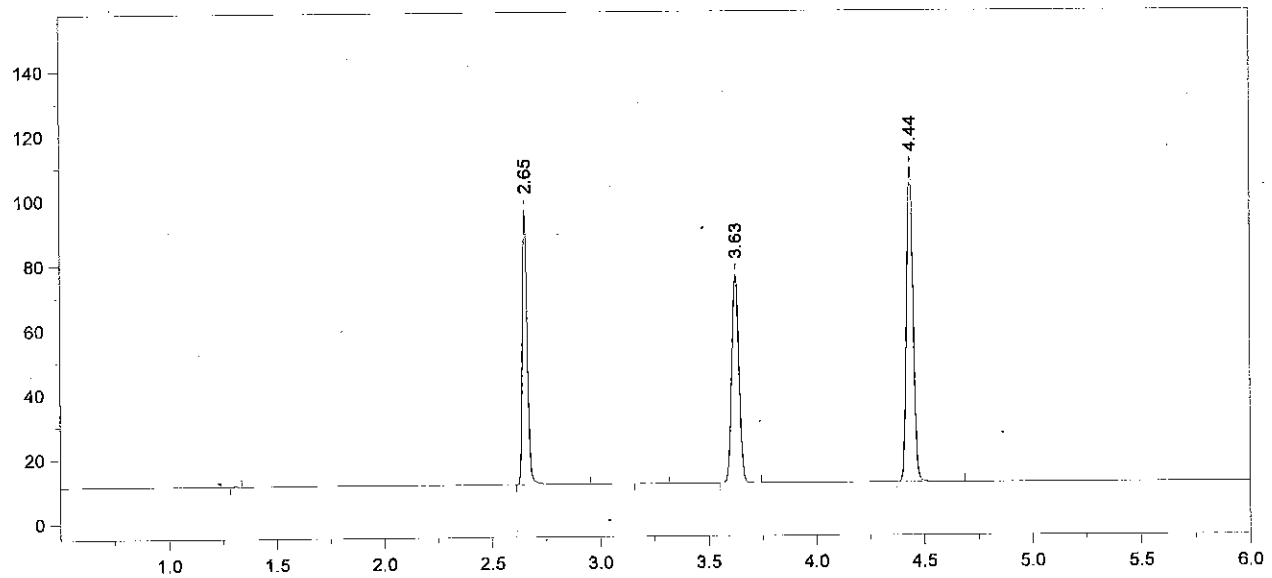


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 6:23:05 PM
Bound File Name = SIM03202014.0024.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 6:22:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125208	0.1181	0.0964
4	3.63	t-Butanol	154132	1.0290	0.8399
5	4.43	n-Propanol	201034	1.0000	0.8162

14-02-100 97

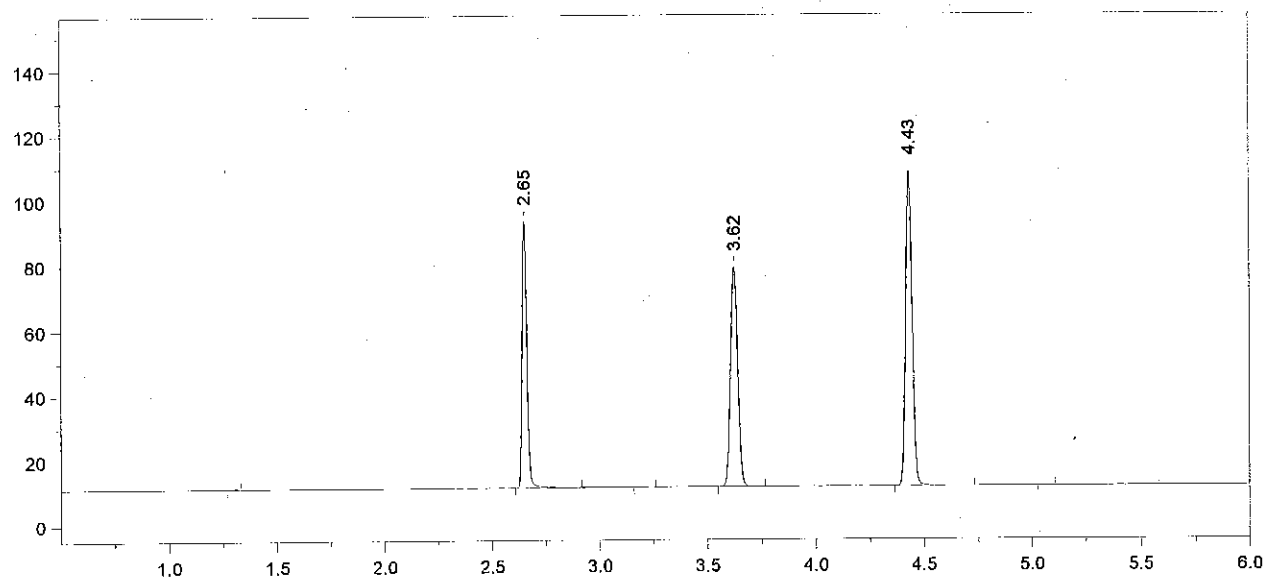


Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 6:36:46 PM
Bound File Name = SIM03202014.0025.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 6:36:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	132437	0.1215	0.0992
4	3.63	t-Butanol	149530	0.9712	0.7927
5	4.44	n-Propanol	206643	1.0000	0.8162

14-02-100 98 RRR



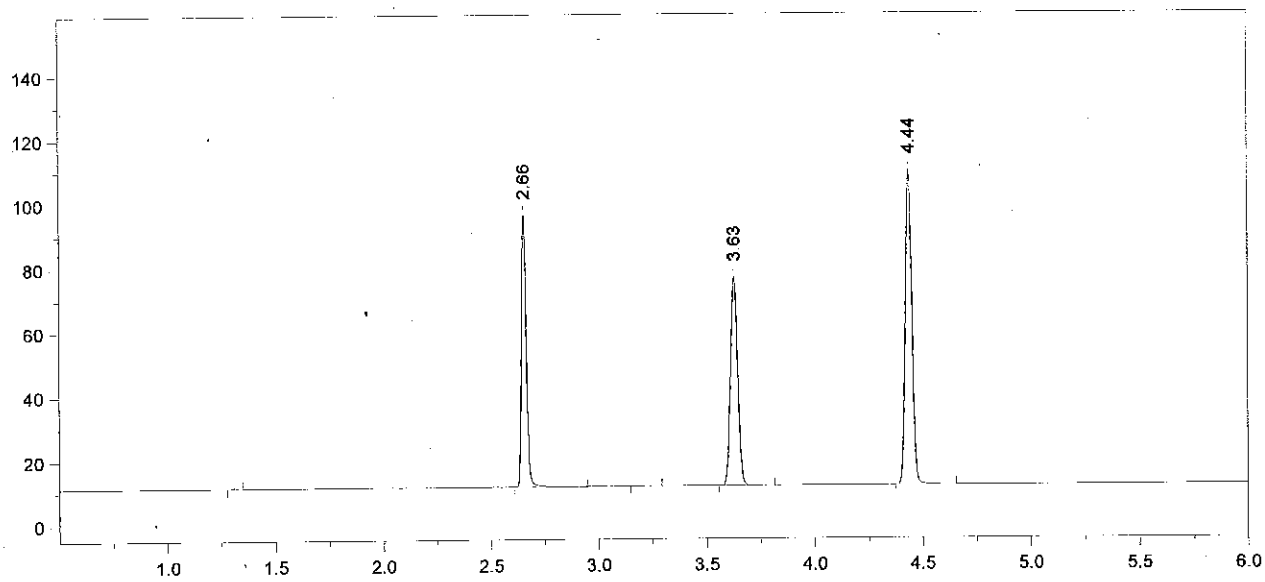
Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 6:54:32 PM
Bound File Name = SIM03202014.0026.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 6:54:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128292	0.1186	0.0968
4	3.62	t-Butanol	156905	1.0270	0.8383
5	4.43	n-Propanol	205055	1.0000	0.8162

14-02-100 99

Chrom Perfect Chromatogram Report



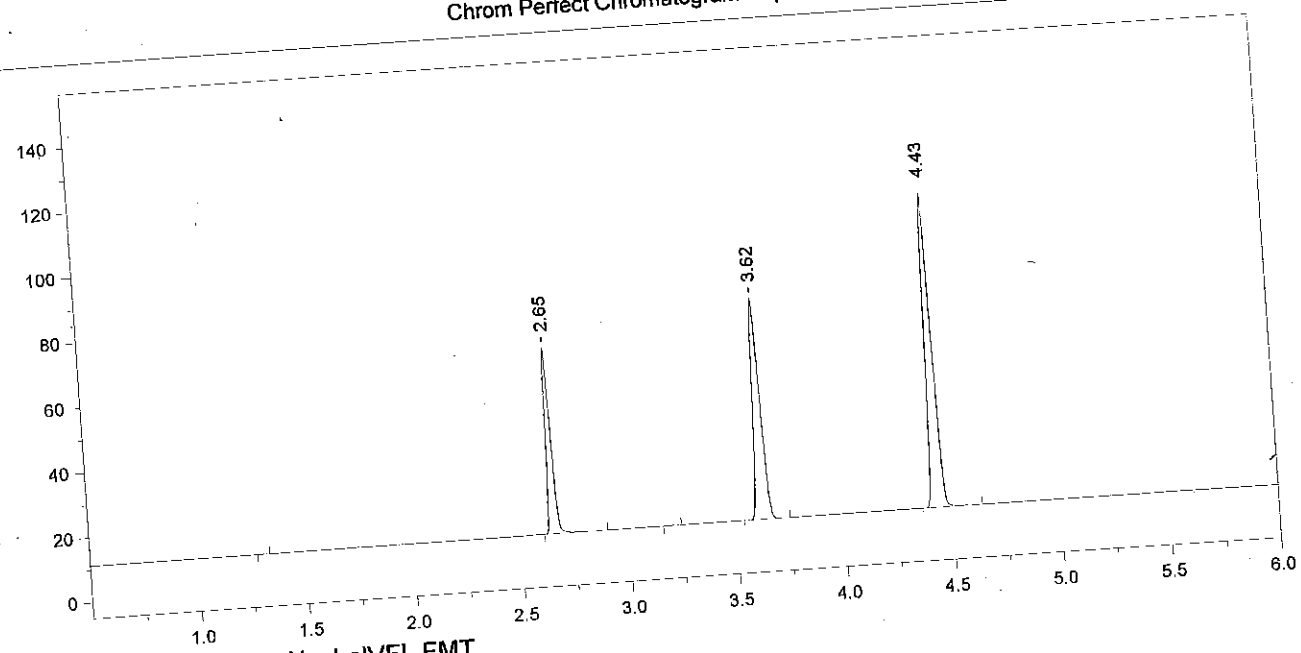
Format File Name = simsolnVFL.met.FMT

Today's Date = 3/20/2014
Today's Time = 7:08:10 PM
Bound File Name = SIM03202014.0027.RAW
Sample Name = 0.1 TLC
Date Taken = 3/20/2014 7:08:01 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM03202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	133317	0.1212	0.0989
4	3.63	t-Butanol	150646	0.9692	0.7911
5	4.44	n-Propanol	208616	1.0000	0.8162

14-02-100 100

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Time = 7:25:55 PM

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0028.RAW
Sample Name = CCS
Date Taken = 3/20/2014 7:25:47 PM
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL

VFL Headspace Alcohol

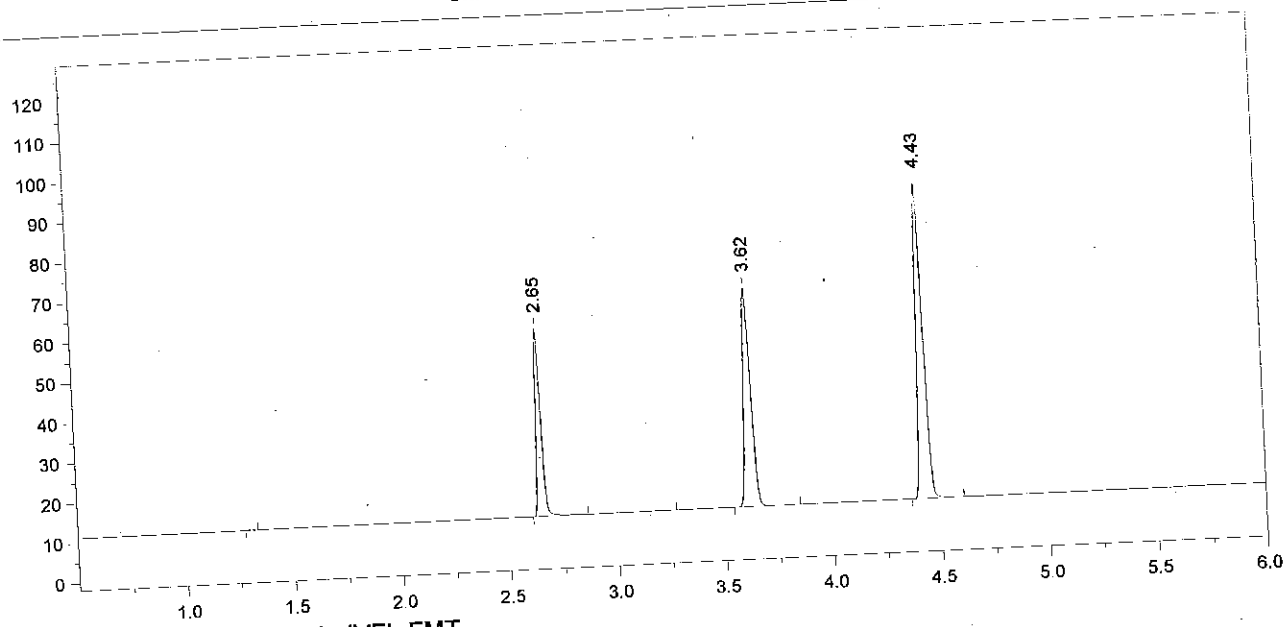
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89529	0.0825 *
4	3.62	t-Butanol	157851	1.0300
5	4.43	n-Propanol	205688	1.0000

Printed on 3/20/2014 7:25:55 PM

14-02-100 101

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Time = 7:39:11 PM

Today's Date = 3/20/2014
Bound File Name = SIM03202014.0029.RAW
Sample Name = CCS
Date Taken = 3/20/2014 7:39:06 PM
Method file = Blood Alc temp VFL.MET
Calibration file = SIM03202014.CAL

VFL Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	73333	0.0832 *
4	3.62	t-Butanol	126494	1.0163
5	4.43	n-Propanol	167055	1.0000

Avg #28 + #29 = 0.083
RZM 3/21/14

Printed on 3/20/2014 7:39:11 PM

RZM

14-02-100 102