VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION
~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST
RLM 10/22/14

LOT#
~~AGENCY CASE#~~: 14-14-100 RLM 10/22/14
LAB #: N/A

ANALYST: RLM

TECHNICAL REVIEWER: [signature]

DATE: 10/23/14

- [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?
- [N/A] Individual replicates within ± 5% of the statistical mean?
- [N/A] 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: 10/23/2014

- [N/A] Agency Case # and Lab # match submission form?
- [N/A] Submitting agency, investigator, suspect, CC match submission form?
- [N/A] 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 #)?
- [N/A] Is the exam end date documented in the paper case file consistent with the exam end date in LIMS?

Comments:

DIRECTOR REVIEWER: [signature]

DATE: 10/23/2014

- [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

PO BOX 47
WATERBURY, VERMONT 05676-0047
TEL: 802-244-8788
FAX: 802-241-5557
http://vfl.vermont.gov

Certificate of Analysis of DataMaster External Standard Solution

On 10/16/2014, 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 14-14-100 and an expiration date of 10/16/2015.

On 10/20/2014 and 10/21/2014, the solution was analyzed against calibration VFL10202014 and SIM10212014. 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 Wednesday, October 22, 2014.

Rebecca Mead

Rebecca Mead

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 External Standard 20L
Lot # 14-14-100
Prepared 10/16/2014 by RLM
Exp 10/16/2015

RLM CAL VFL10202014
RLM/ALB Vials
Analyzed on 10/20/2014

0.0977	rlm
0.0986	
0.0971	
0.0993	
0.0970	
0.0988	
0.0970	
0.0995	alb
0.0985	
0.1001	
0.0973	
0.0997	
0.0980	
0.1008	

Ave. = 0.0985
Std Dev. = 0.0012
Range = 0.0970-0.1008

RLM CAL SIM10212014
RLM/ALB Vials
Analyzed on 10/21/2014

0.0975	rlm
0.1004	
0.0980	
0.0988	
0.0971	
0.0997	
0.0978	
0.0997	alb
0.0990	
0.1010	
0.1001	
0.1011	
0.0993	
0.1013	

Ave. = 0.0993
Std Dev. = 0.0014
Range = 0.0971-0.1013

Total Values from Both Runs

Average	**Mean**
0.0977	0.0970
0.0986	
0.0971	0.0971
0.0993	
0.0970	0.0973
0.0988	0.0975
0.0970	0.0977
0.0995	0.0978
0.0985	0.0980
0.1001	
0.0973	0.0985
0.0997	0.0986
0.0980	0.0988
0.1008	
0.0975	0.0990
0.1004	0.0993
0.0980	
0.0988	0.0995
0.0971	0.0997
0.0997	
0.0978	
0.0997	0.1001
0.0990	
0.1010	0.1004
0.1001	0.1008
0.1011	0.1010
0.0993	0.1011
0.1013	0.1013

Ave. =	0.0989
Avg Std Dev. =	0.0013
Mean =	0.0990
Mean Std Dev. =	0.0014
Range =	0.0970-0.1013
RPD =	4.35%

File Name: C:\Methods\VFL10202014.CAL
Version: 7

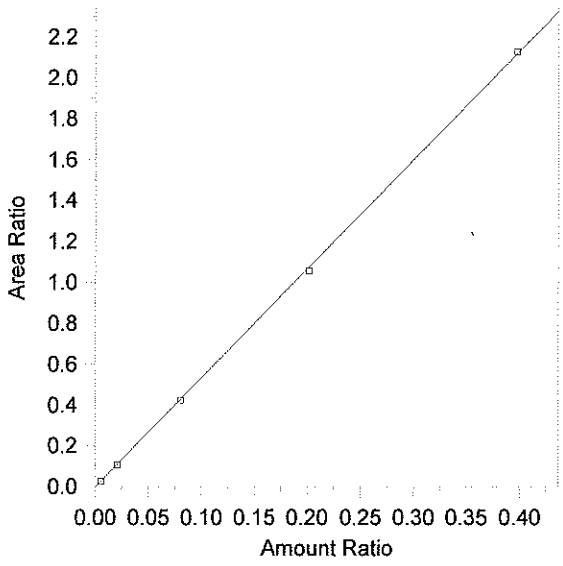
Creator:
Description:
Reason for change:

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

$Y = 5.326643 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9998433
Average error: 2.391%
Average CF: 5.301055
RSD: 3.187%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.0052	6064.976	1166342	4.290	0.0052	2.888683E-02	C:\Alcohol Data\VFL10202014\VFL10202014.0003.BND	10/20/2014 5:00:07 PM
3	0.021	20919.51	996167.1	-4.303	0.021	0.1070465	C:\Alcohol Data\VFL10202014\VFL10202014.0004.BND	10/20/2014 5:18:01 PM
4	0.0803	86143.85	1072775	-1.219	0.0803	0.4225167	C:\Alcohol Data\VFL10202014\VFL10202014.0005.BND	10/20/2014 5:31:48 PM
5	0.2014	210461.6	1044993	-1.658	0.2014	1.055	C:\Alcohol Data\VFL10202014\VFL10202014.0006.BND	10/20/2014 5:49:28 PM
6	0.3972	423434.2	1066048	0.487	0.3972	2.126054	C:\Alcohol Data\VFL10202014\VFL10202014.0007.BND	10/20/2014 6:03:25 PM

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File Name = C:\Alcohol Data\VFL10202014\VFL10202014.SEQ
Version = 1
File Date = 10/20/2014 3:48:00 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL10202014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL10202014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL10202014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL10202014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL10202014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL10202014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL10202014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL10202014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	VFL10202014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	VFL10202014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL10202014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL10202014.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	VFL10202014.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	VFL10202014.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	VFL10202014.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	VFL10202014.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	VFL10202014.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	VFL10202014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	VFL10202014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	VFL10202014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL10202014.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	VFL10202014.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	VFL10202014.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	VFL10202014.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	VFL10202014.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	VFL10202014.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	VFL10202014.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	VFL10202014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	VFL10202014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL10202014.0030.raw	Blood Alc temp VFL.MET	Blank--IS-10172014 QC	1.00	1.00
31	VFL10202014.0031.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
32	VFL10202014.0032.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

IS QC check not included.
KEM 10/21/14

Lot #s:
Internal Standard: IS-07082014
Blank: BL-08112014
Timing Mix: TMX-08112014
Ethanol Standards: ES-09122014
Aqueous Control: Ceilliant FN021111-03
KEM 10/21/14

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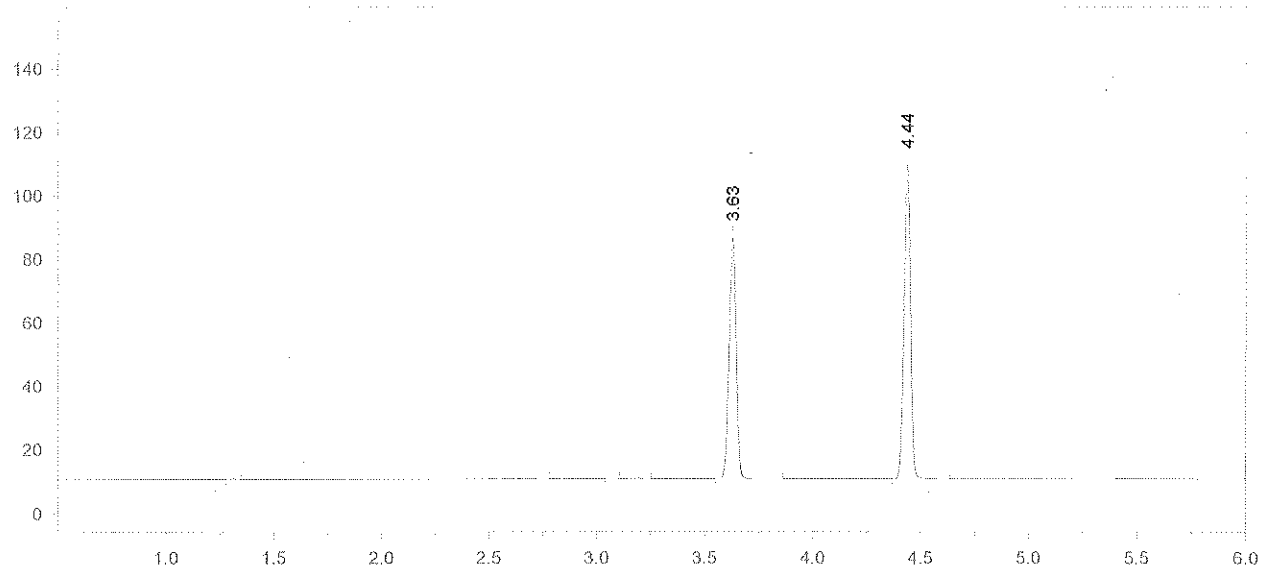

Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 8:04:08 AM
Bound File Name = VFL10202014.0001.RAW
Sample Name = Blank
Date Taken = 10/20/2014 4:29:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	3.63	t-Butanol	176515	0.9655
6	4.44	n-Propanol	210486	1.0000

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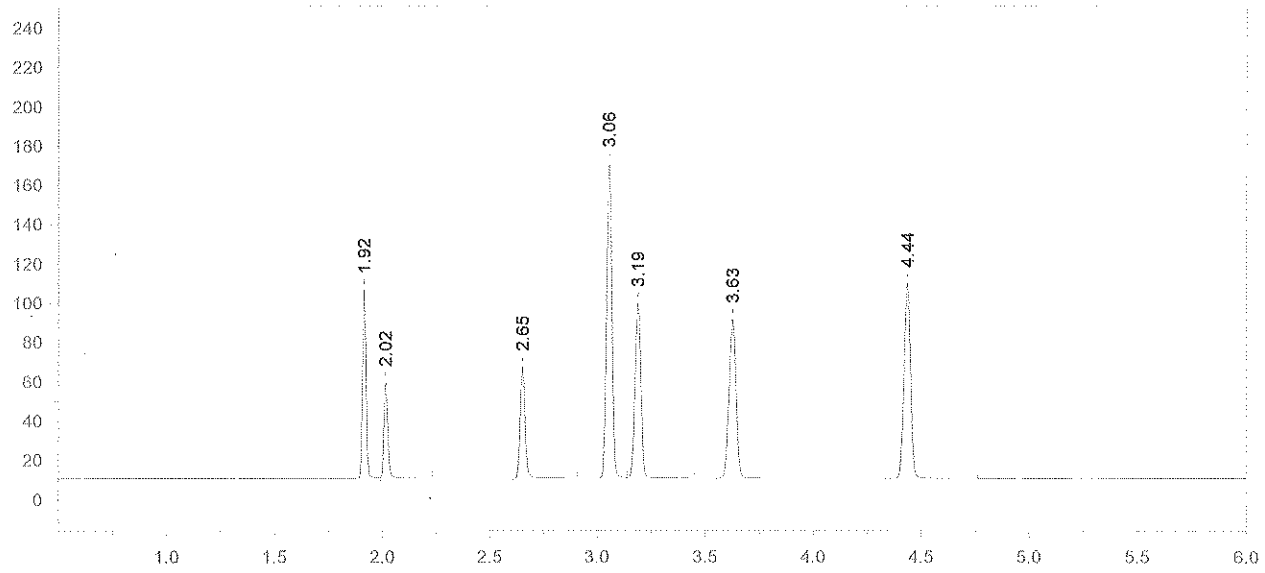
4



Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014 Today's Time = 8:04:13 AM
Bound File Name = VFL10202014.0002.RAW
Sample Name = TMX
Date Taken = 10/20/2014 4:46:31 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	111844	0.0695
3	2.02	Methanol	63046	0.1232
4	2.65	Ethanol	88573	0.0787
5	3.06	Acetone	274053	0.0657
6	3.19	Isopropanol	167861	0.0848
7	3.63	t-Butanol	187044	1.0197
8	4.44	n-Propanol	211182	1.0000

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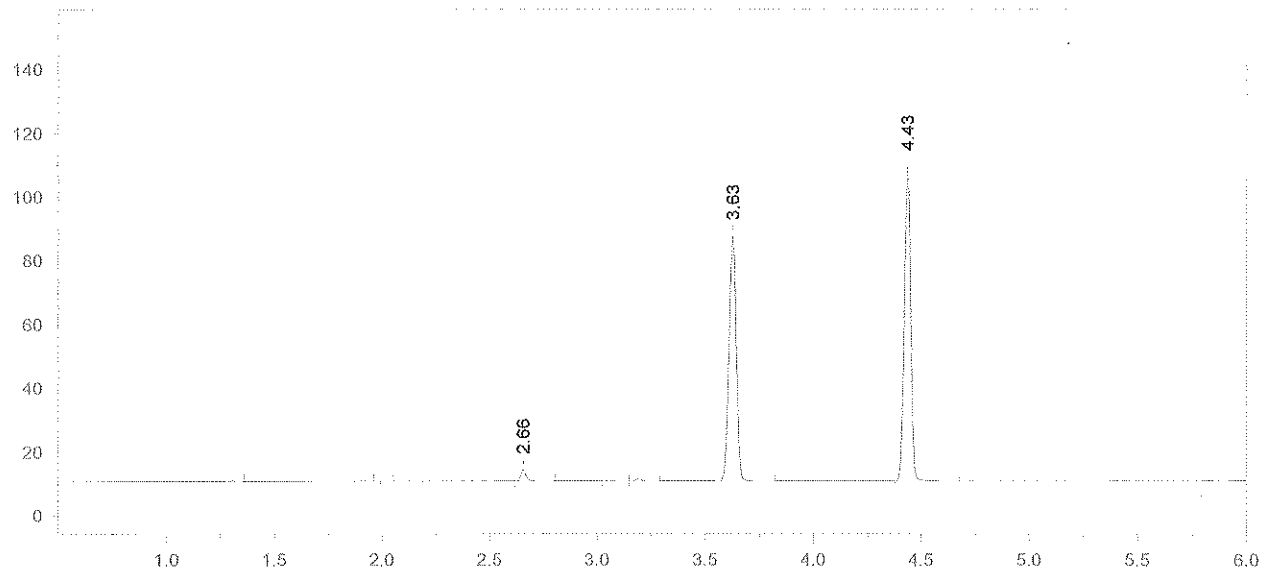

Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 8:04:21 AM
Bound File Name = VFL10202014.0003.RAW
Sample Name = STD A
Date Taken = 10/20/2014 4:59:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	06065	0.0054 *
7	3.63	t-Butanol	178302	0.9777
8	4.43	n-Propanol	209956	1.0000

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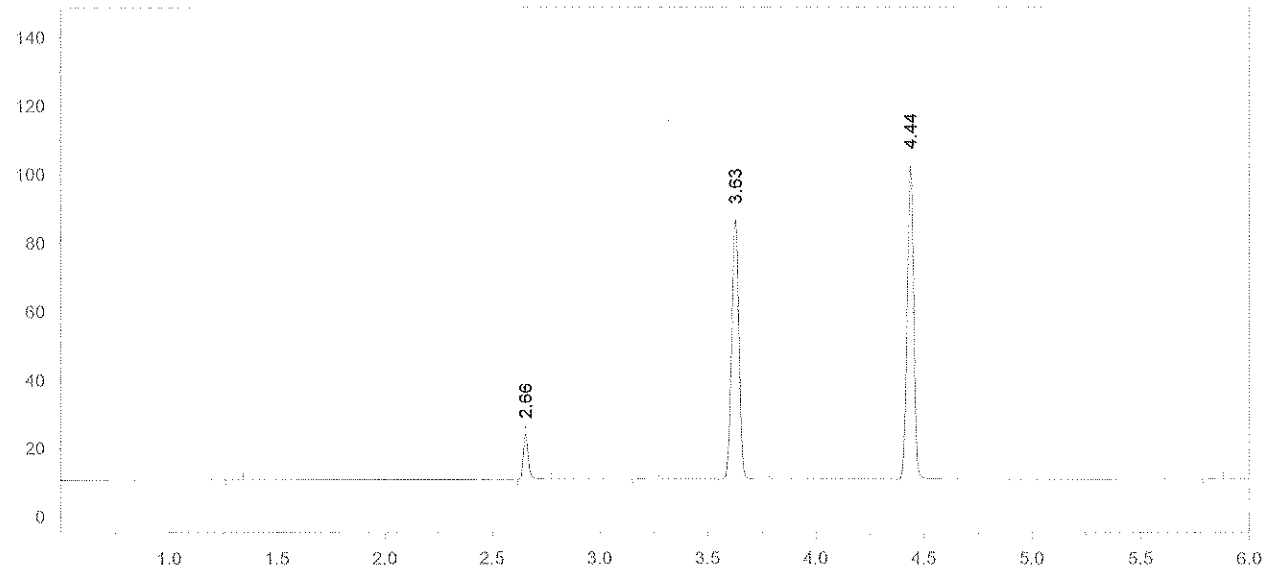


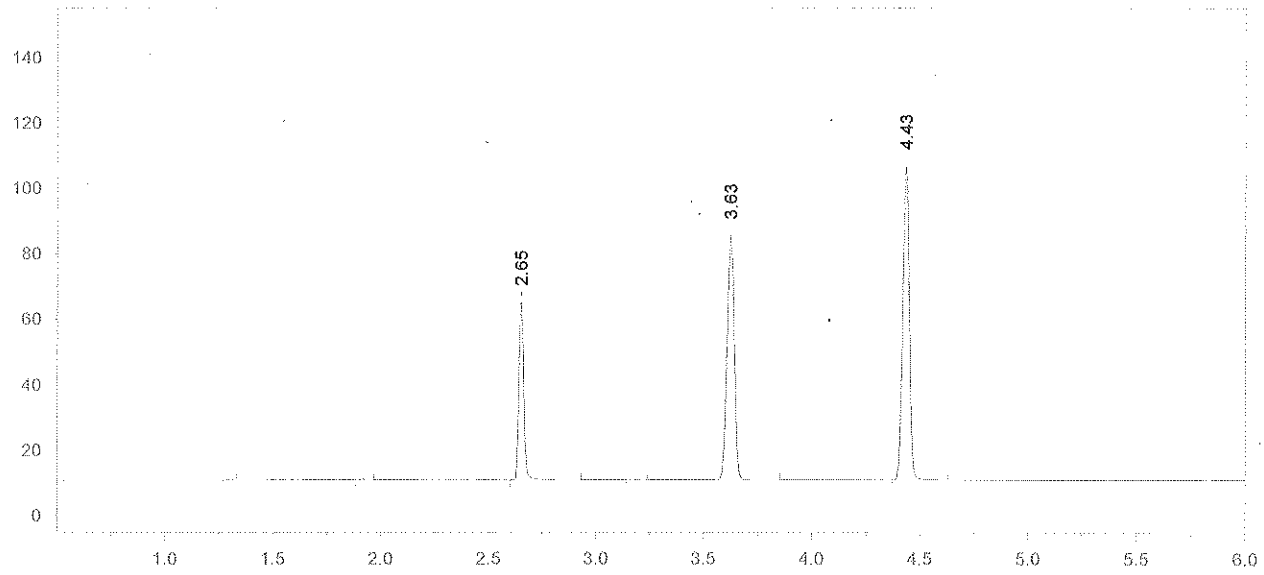
Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 8:04:27 AM
Bound File Name = VFL10202014.0004.RAW
Sample Name = STD B
Date Taken = 10/20/2014 5:17:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	20920	0.0201
4	3.63	t-Butanol	176294	1.0386
5	4.44	n-Propanol	195425	1.0000

14-14-100

7



Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 8:04:32 AM
Bound File Name = VFL10202014.0005.RAW
Sample Name = STD C
Date Taken = 10/20/2014 5:31:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	86144	0.0793 *
5	3.63	t-Butanol	173369	0.9790
6	4.43	n-Propanol	203883	1.0000

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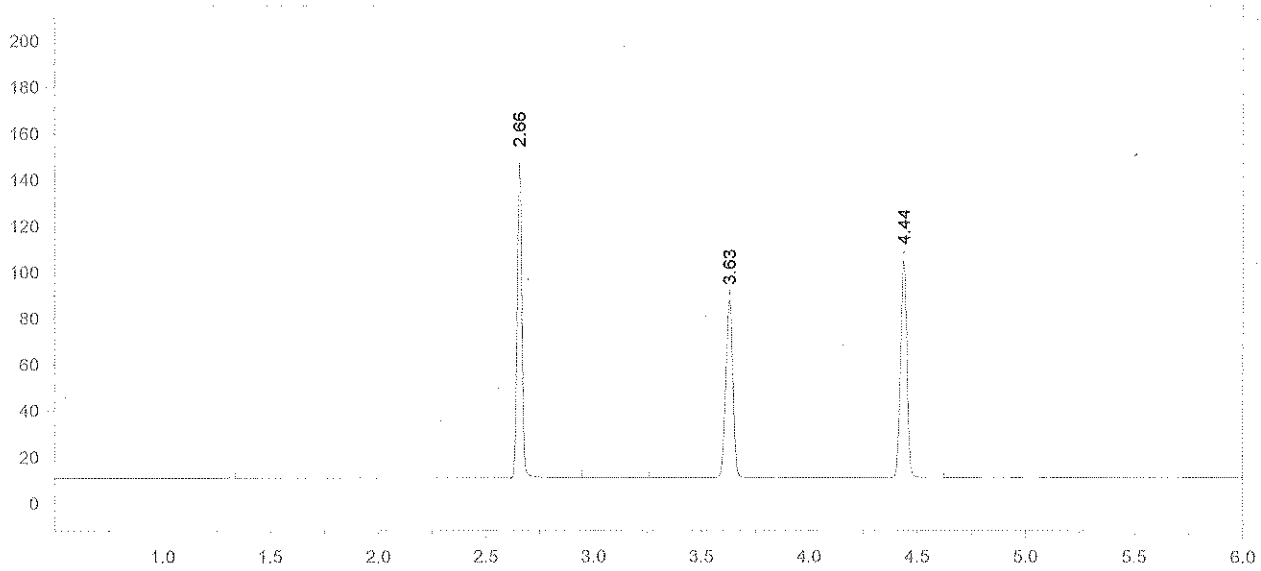
8



Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014 Today's Time = 8:04:38 AM
Bound File Name = VFL10202014.0006.RAW
Sample Name = STD D
Date Taken = 10/20/2014 5:49:22 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	210462	0.1981 *
4	3.63	t-Butanol	177618	1.0251
5	4.44	n-Propanol	199490	1.0000

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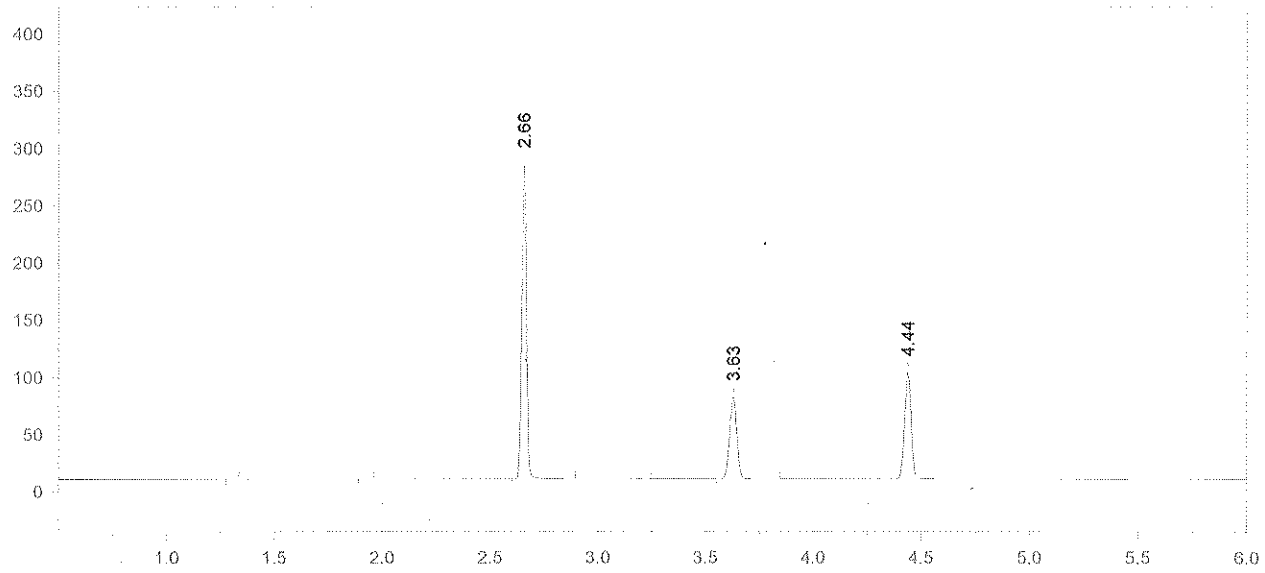

Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014 Today's Time = 8:04:46 AM
Bound File Name = VFL10202014.0007.RAW
Sample Name = STD E
Date Taken = 10/20/2014 6:03:19 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	423434	0.3991 *
5	3.63	t-Butanol	166047	0.9599
6	4.44	n-Propanol	199164	1.0000

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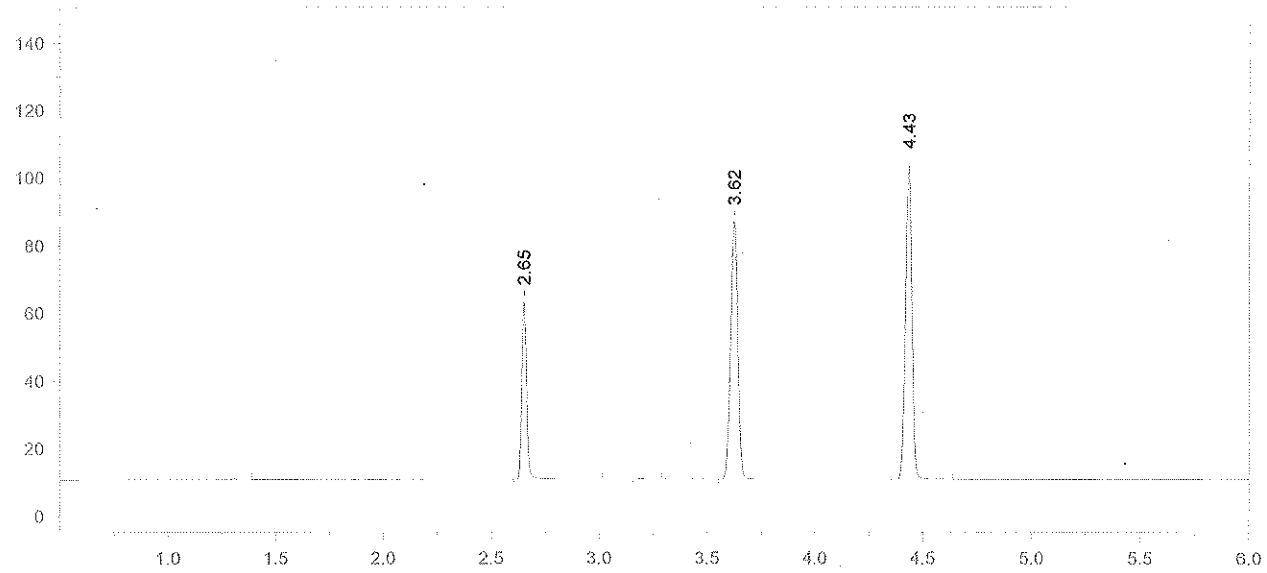

Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 6:20:52 PM
Bound File Name = VFL10202014.0008.RAW
Sample Name = AQ QC
Date Taken = 10/20/2014 6:20:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82631	0.0784 *
4	3.62	t-Butanol	176785	1.0285
5	4.43	n-Propanol	197904	1.0000

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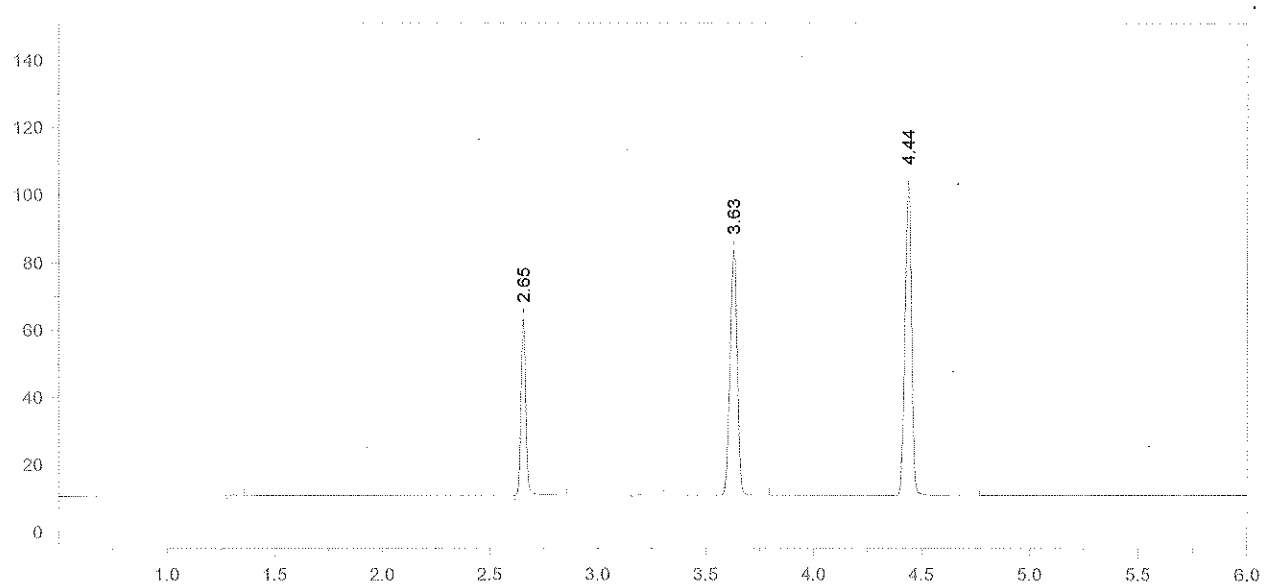
11



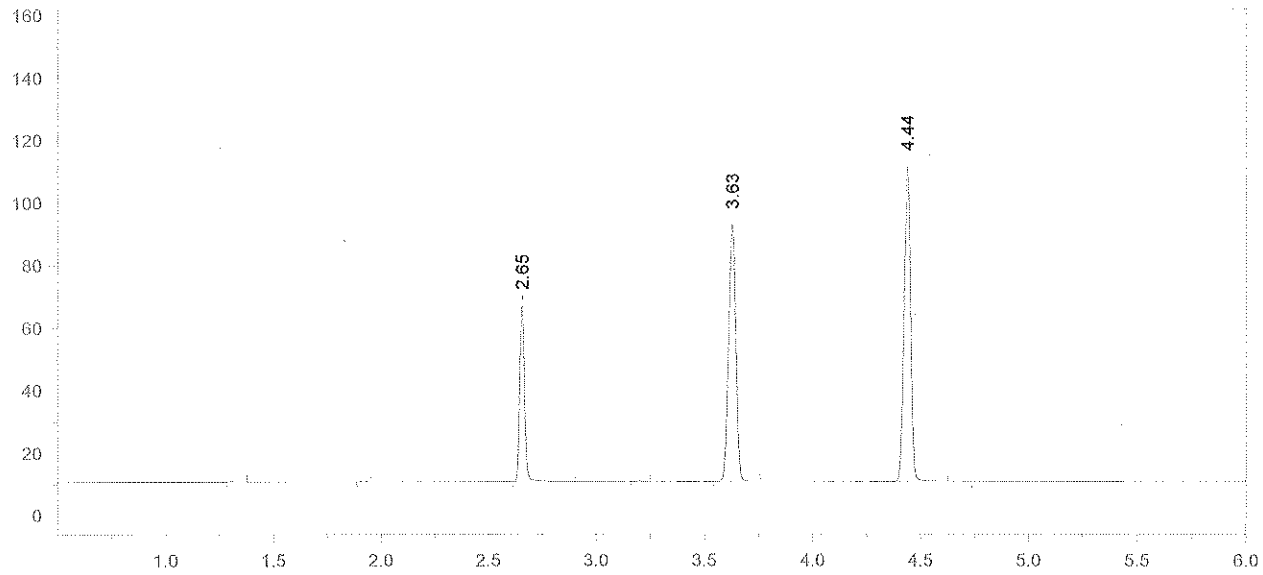
Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 6:34:05 PM
Bound File Name = VFL10202014.0009.RAW
Sample Name = AQ QC
Date Taken = 10/20/2014 6:33:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82340	0.0778 *
4	3.63	t-Butanol	169063	0.9800
5	4.44	n-Propanol	198621	1.0000

Avg #8 + #9 = 0.078
Target value: 0.080
% recovery = 97 %
KEM 10/21/14

14-14-100 12 KEM



Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 6:50:31 PM
Bound File Name = VFL10202014.0010.RAW
Sample Name = CCS
Date Taken = 10/20/2014 6:50:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	88446	0.0777 *
5	3.63	t-Butanol	190419	1.0262
6	4.44	n-Propanol	213631	1.0000

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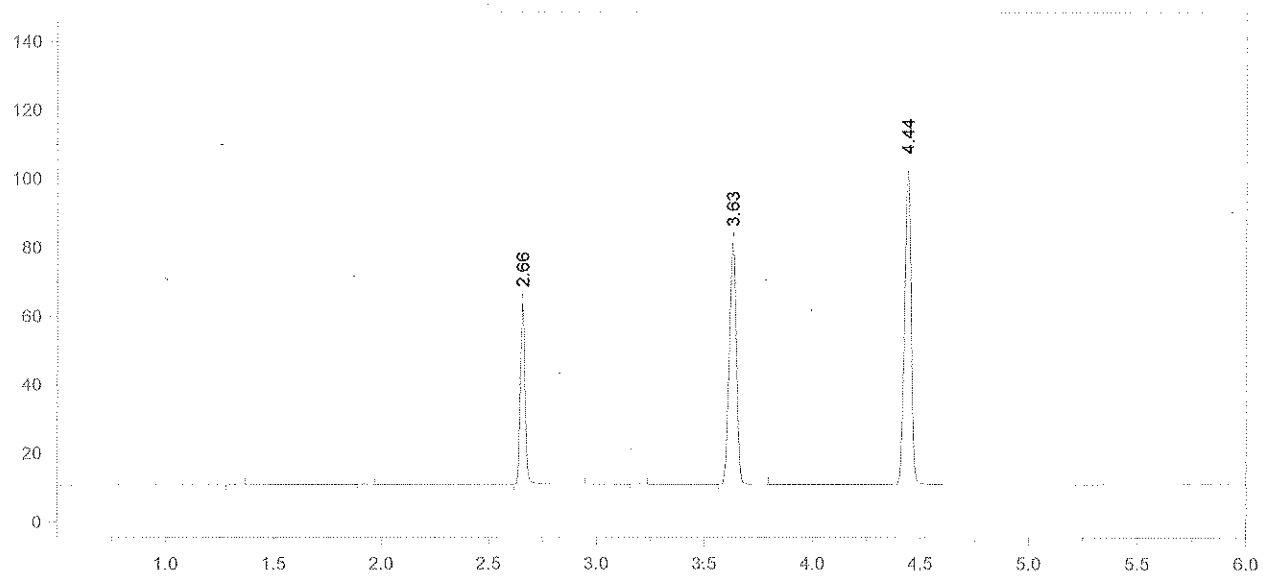


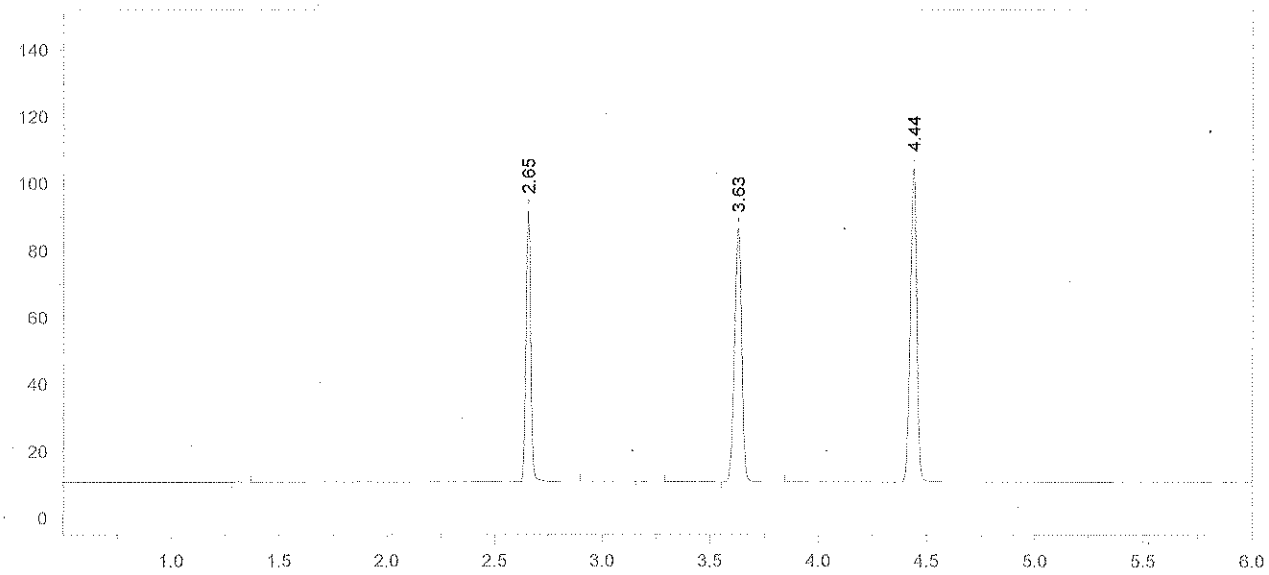
Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 7:06:02 PM
Bound File Name = VFL10202014.0011.RAW
Sample Name = CCS
Date Taken = 10/20/2014 7:05:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	82907	0.0795 *
5	3.63	t-Butanol	163312	0.9603
6	4.44	n-Propanol	195803	1.0000

Avg #10 + #11 = 0.078
KEM 10/21/14

14-14-100 14 KEM

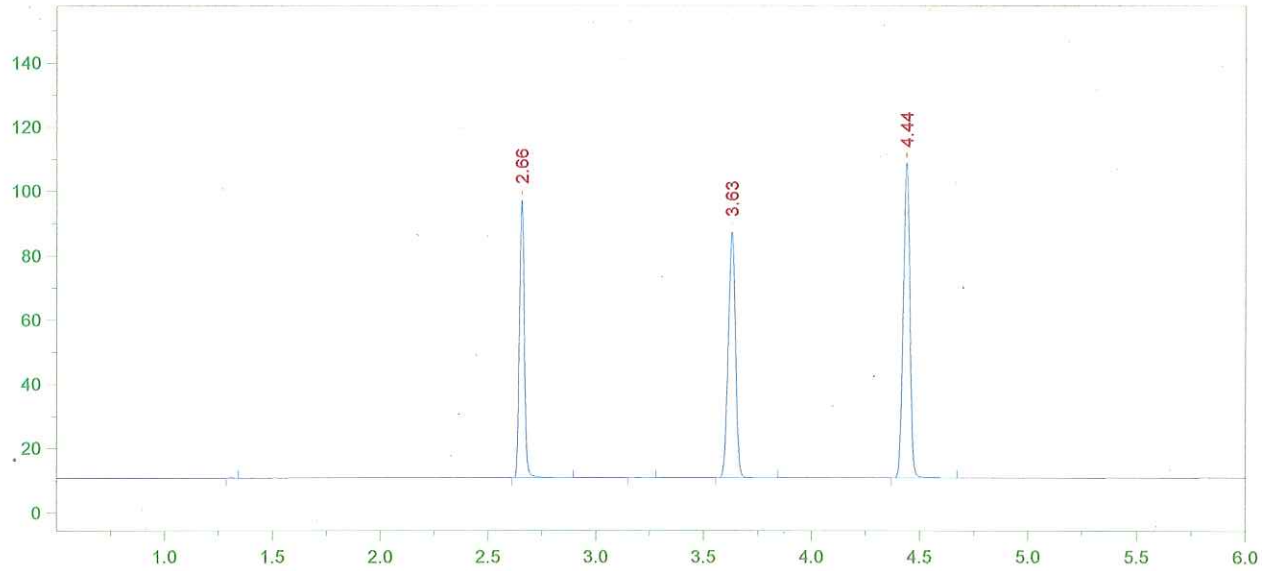


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 7:22:07 PM
Bound File Name = VFL10202014.0012.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 7:22:02 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126974	0.1197	0.0977
4	3.63	t-Butanol	176389	1.0202	0.8327
5	4.44	n-Propanol	199061	1.0000	0.8162

14-14-100 15 Ken

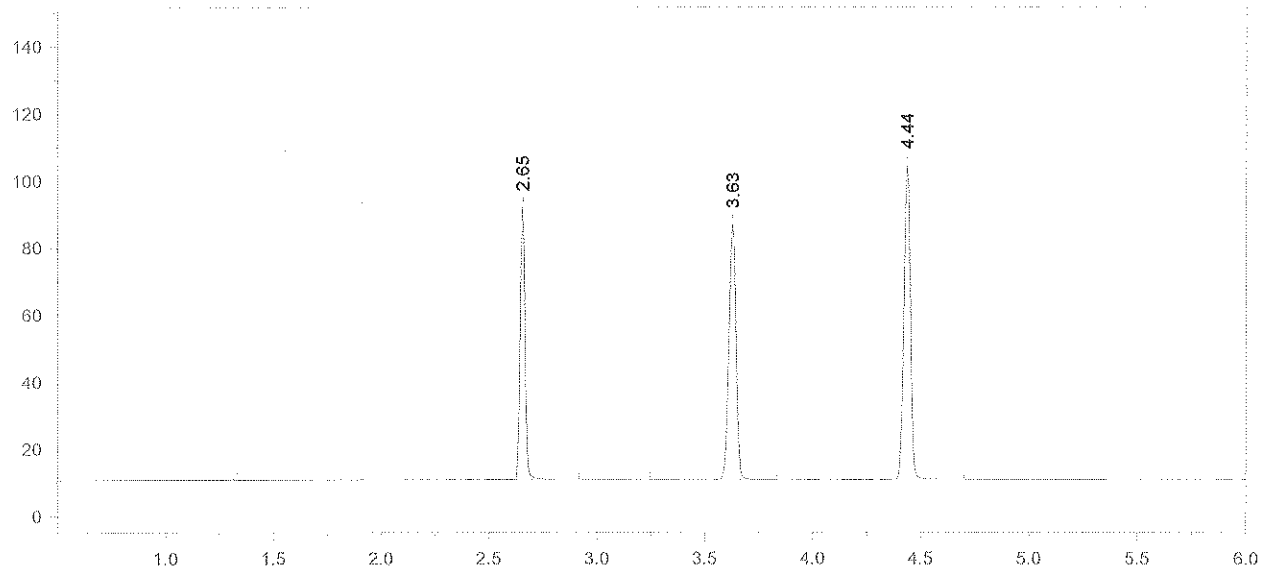


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 7:36:17 PM
Bound File Name = VFL10202014.0013.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 7:36:12 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	134111	0.1208	0.0986
4	3.63	t-Butanol	176425	0.9742	0.7952
5	4.44	n-Propanol	208492	1.0000	0.8162

14-14-100 16

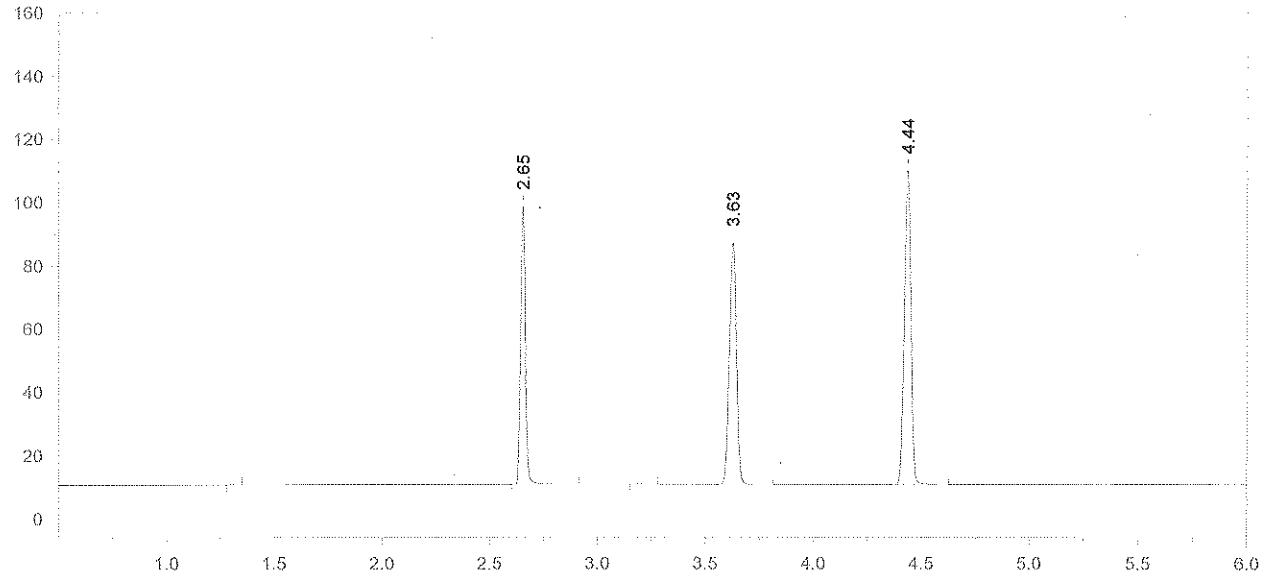


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 7:53:34 PM
Bound File Name = VFL10202014.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 7:53:29 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126143	0.1189	0.0971
4	3.63	t-Butanol	177024	1.0237	0.8355
5	4.44	n-Propanol	199094	1.0000	0.8162

14-14-100 17

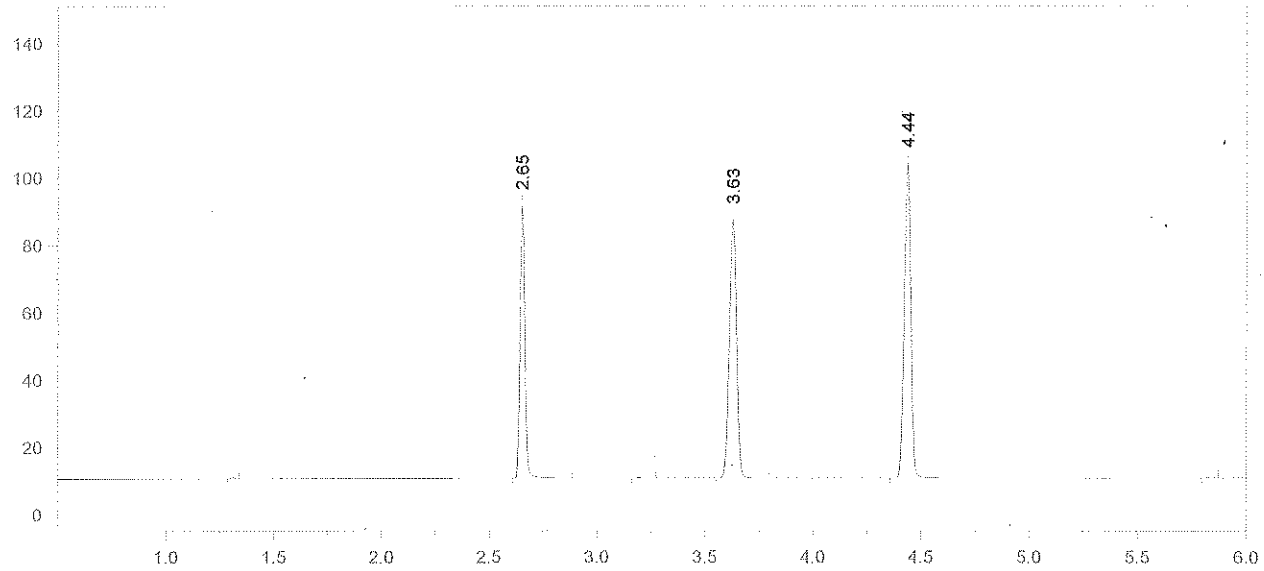


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 8:07:32 PM
Bound File Name = VFL10202014.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 8:07:27 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	136677	0.1217	0.0993
4	3.63	t-Butanol	176946	0.9662	0.7886
5	4.44	n-Propanol	210853	1.0000	0.8162

14-14-100 18

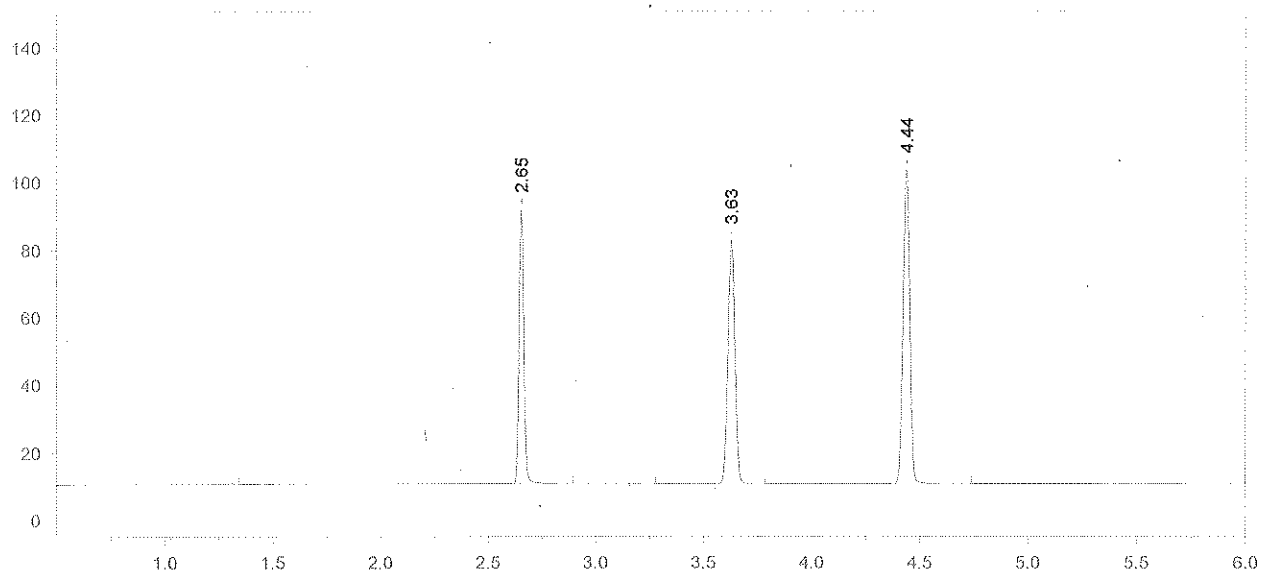


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 8:25:05 PM
Bound File Name = VFL10202014.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 8:24:56 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125616	0.1189	0.0970
4	3.63	t-Butanol	178024	1.0333	0.8434
5	4.44	n-Propanol	198363	1.0000	0.8162

14-14-100 19 Ren

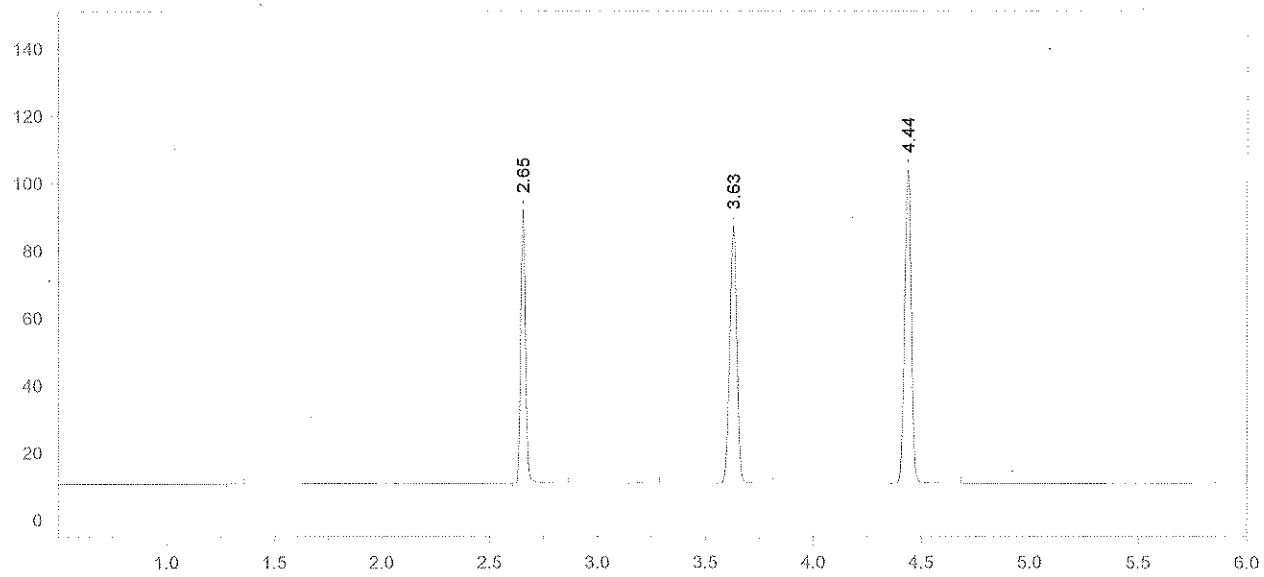


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 8:38:40 PM
Bound File Name = VFL10202014.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 8:38:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127461	0.1210	0.0988
4	3.63	t-Butanol	167676	0.9763	0.7968
5	4.44	n-Propanol	197743	1.0000	0.8162

14-14-100 20

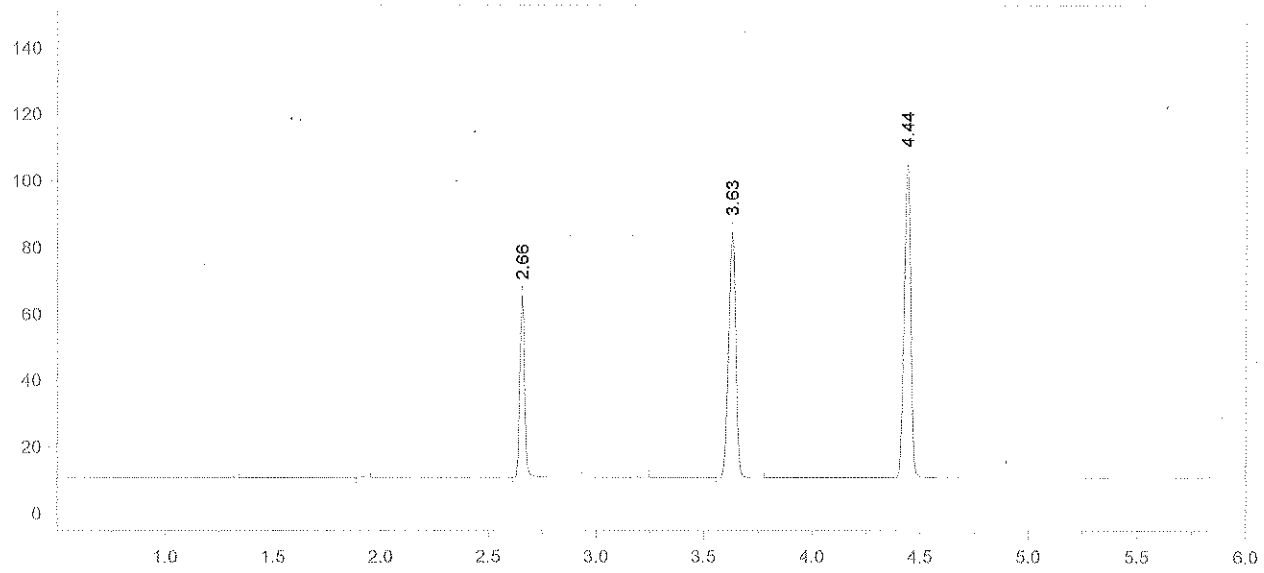


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 8:56:28 PM
Bound File Name = VFL10202014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 10/20/2014 8:56:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126108	0.1189	0.0970
4	3.63	t-Butanol	177380	1.0256	0.8371
5	4.44	n-Propanol	199114	1.0000	0.8162

14-14-100 21

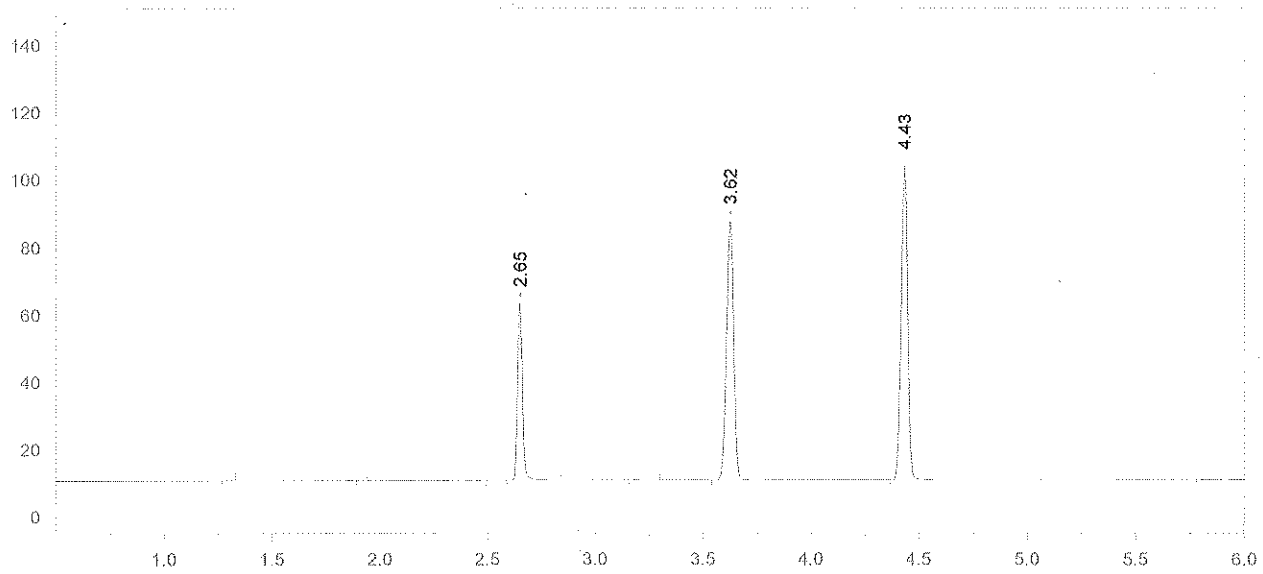


Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014 Today's Time = 9:10:21 PM
Bound File Name = VFL10202014.0019.RAW
Sample Name = CCS
Date Taken = 10/20/2014 9:10:13 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	85612	0.0797 *
5	3.63	t-Butanol	171028	0.9766
6	4.44	n-Propanol	201614	1.0000

14-14-100 22



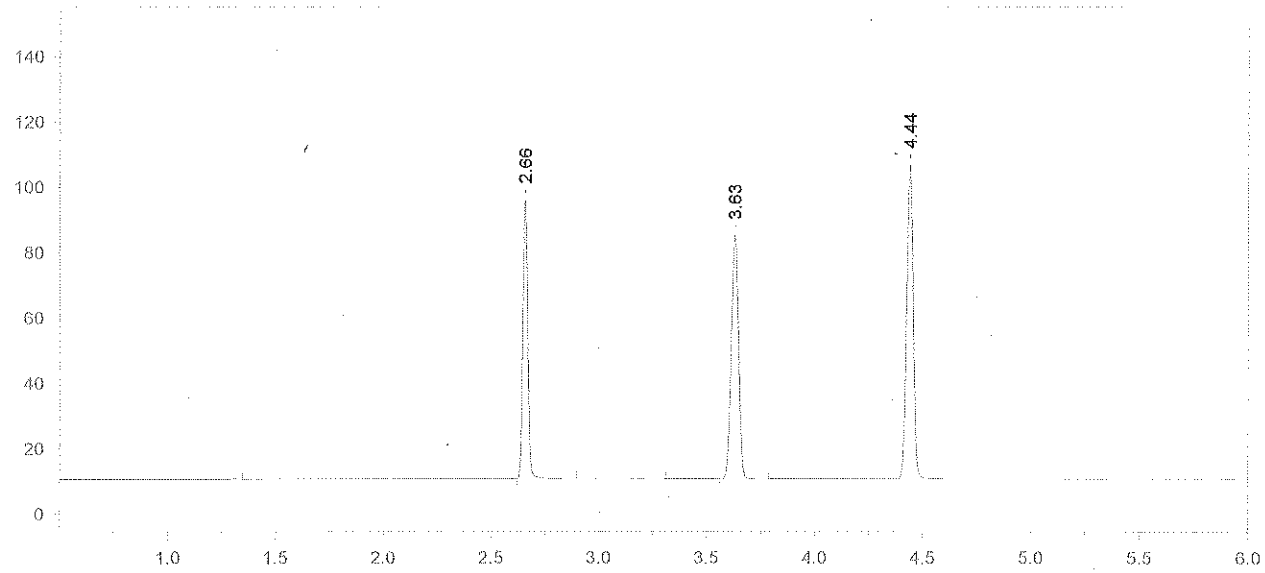
Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 9:27:49 PM
Bound File Name = VFL10202014.0020.RAW
Sample Name = CCS
Date Taken = 10/20/2014 9:27:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82195	0.0771 *
5	3.62	t-Butanol	178511	1.0266
6	4.43	n-Propanol	200190	1.0000

Avg #19 + #20 = 0.078
RLM 10/21/14

14-14-100
23
RLM

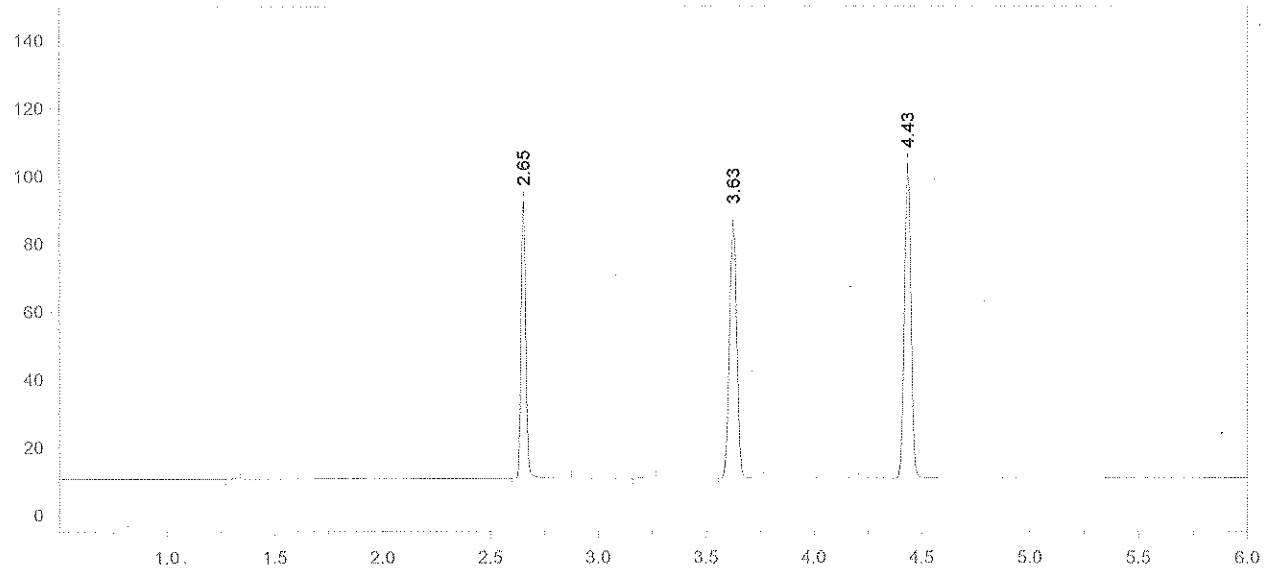


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 9:41:36 PM
Bound File Name = VFL10202014.0021.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 9:41:27 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	133208	0.1219	0.0995
4	3.63	t-Butanol	172899	0.9699	0.7916
5	4.44	n-Propanol	205235	1.0000	0.8162

14-14-100 24

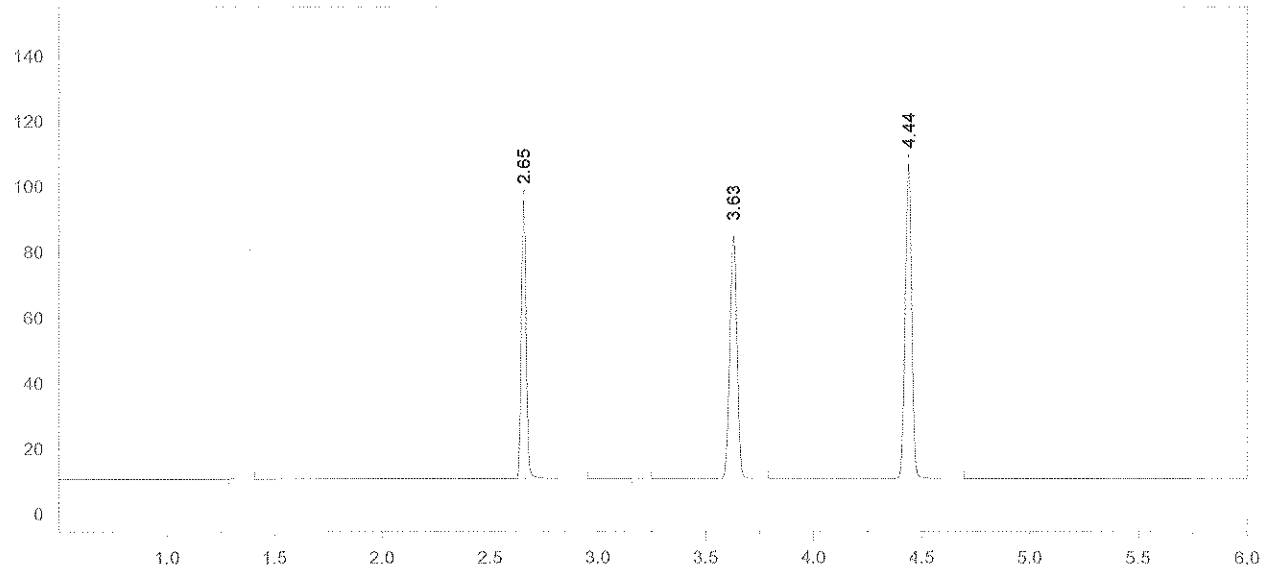


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 9:59:14 PM
Bound File Name = VFL10202014.0022.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 9:59:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126483	0.1206	0.0985
4	3.63	t-Butanol	176232	1.0308	0.8413
5	4.43	n-Propanol	196841	1.0000	0.8162

14-14-100 25

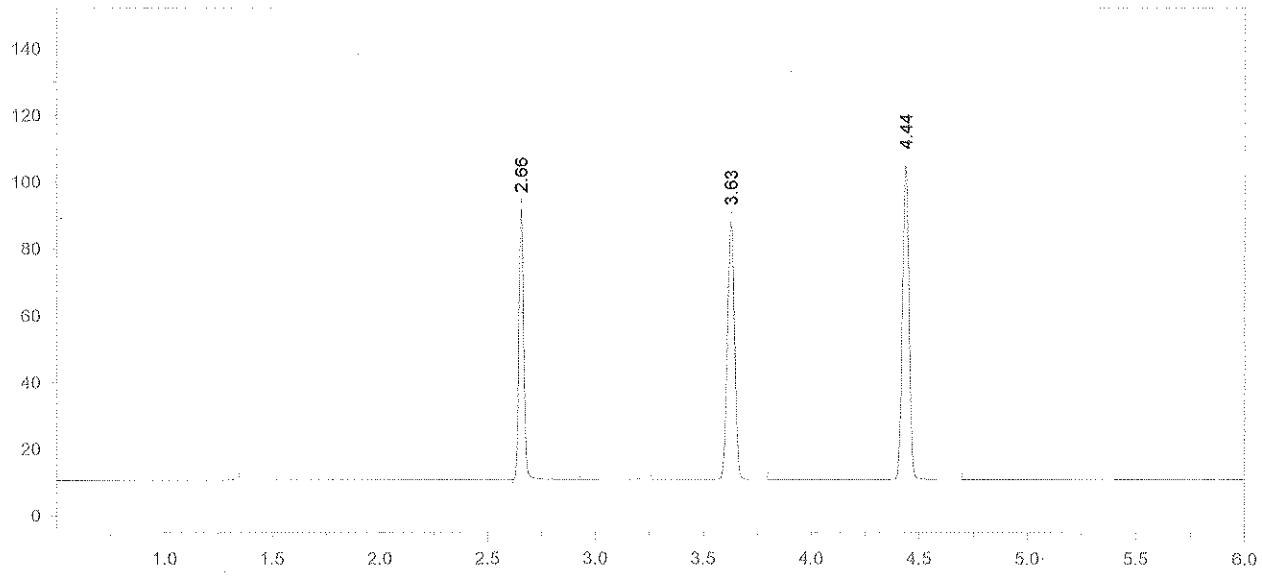


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 10:13:01 PM
Bound File Name = VFL10202014.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 10:12:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133252	0.1226	0.1001
4	3.63	t-Butanol	172104	0.9710	0.7926
5	4.44	n-Propanol	204054	1.0000	0.8162

14-14-100 26

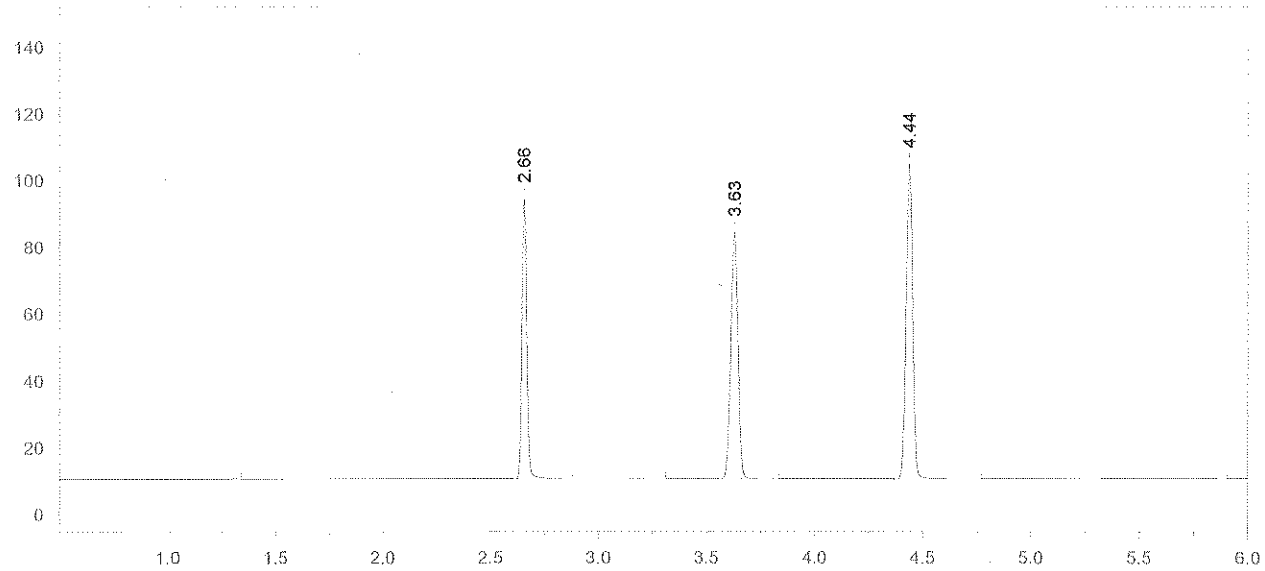


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 10:30:35 PM
Bound File Name = VFL10202014.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 10:30:30 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	127067	0.1192	0.0973
4	3.63	t-Butanol	178991	1.0294	0.8402
5	4.44	n-Propanol	200192	1.0000	0.8162

14-14-100 27 RZM

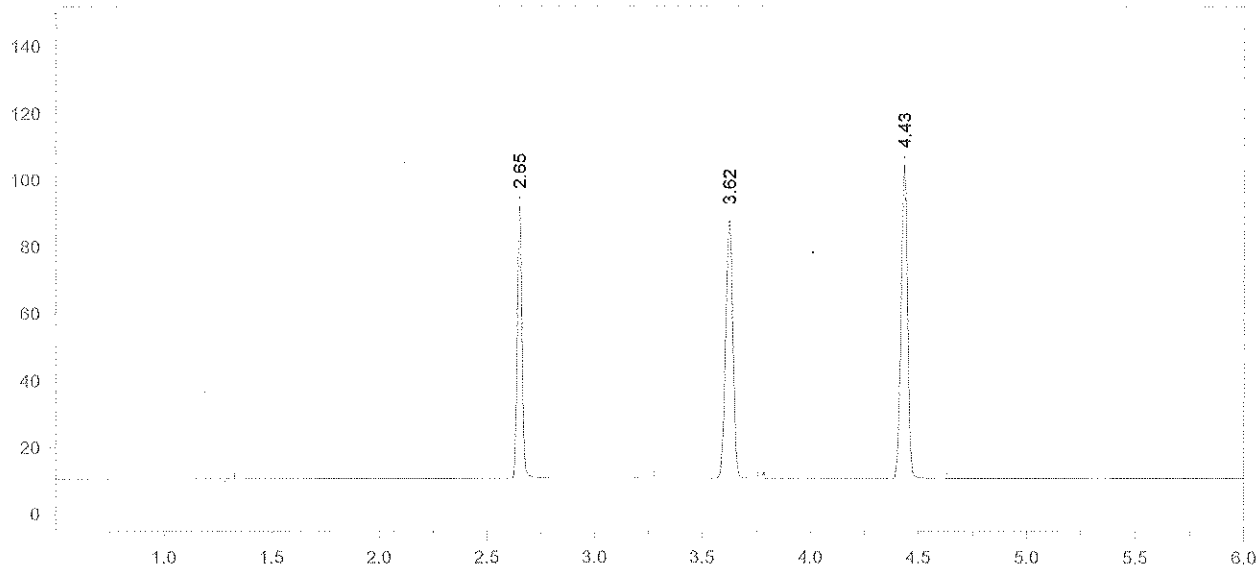


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 10:44:14 PM
Bound File Name = VFL10202014.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 10:44:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	131216	0.1222	0.0997
4	3.63	t-Butanol	171032	0.9767	0.7971
5	4.44	n-Propanol	201618	1.0000	0.8162

14-14-100 28

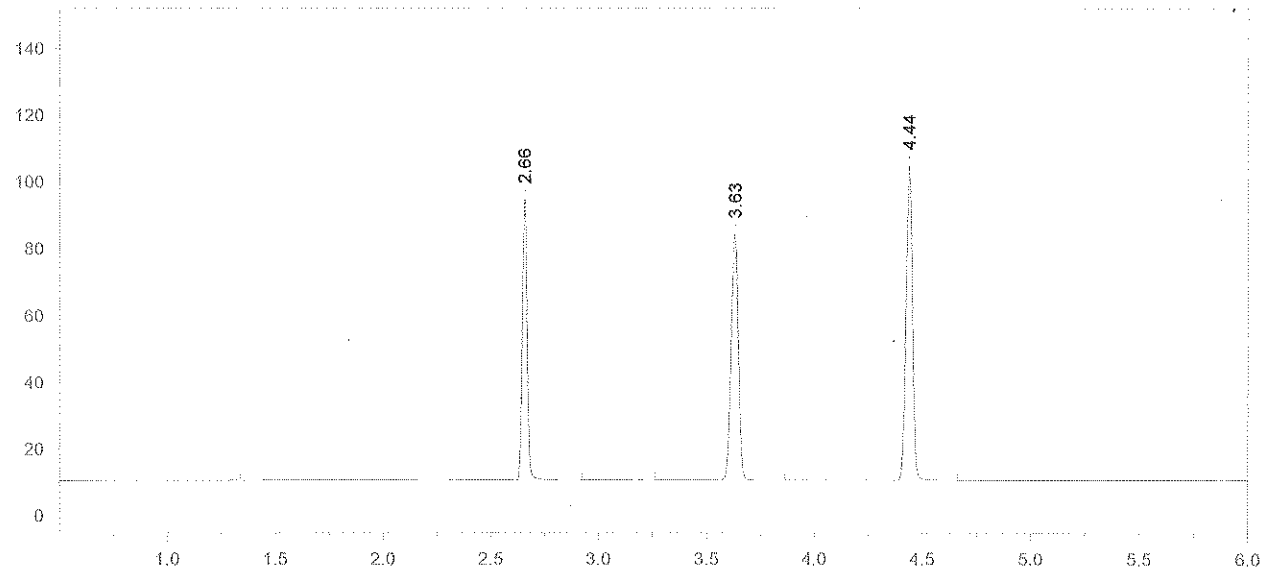


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 11:02:02 PM
Bound File Name = VFL10202014.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 11:01:55 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127787	0.1200	0.0980
4	3.62	t-Butanol	179011	1.0312	0.8417
5	4.43	n-Propanol	199863	1.0000	0.8162

14-14-100 29



Format File Name = simsolnVFL.met.FMT

Today's Date = 10/20/2014 Today's Time = 11:15:39 PM
Bound File Name = VFL10202014.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 10/20/2014 11:15:31 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10202014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	132052	0.1235	0.1008
4	3.63	t-Butanol	171299	0.9823	0.8018
5	4.44	n-Propanol	200765	1.0000	0.8162

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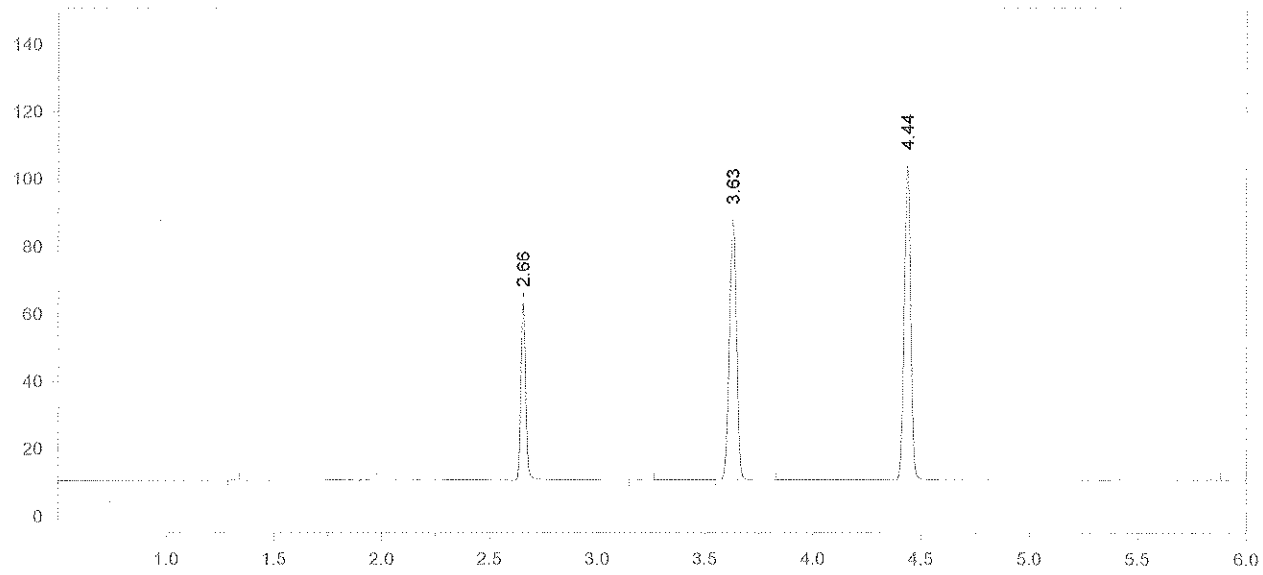

Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 11:33:25 PM
Bound File Name = VFL10202014.0028.RAW
Sample Name = CCS
Date Taken = 10/20/2014 11:33:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	82250	0.0778 *
5	3.63	t-Butanol	178447	1.0352
6	4.44	n-Propanol	198470	1.0000

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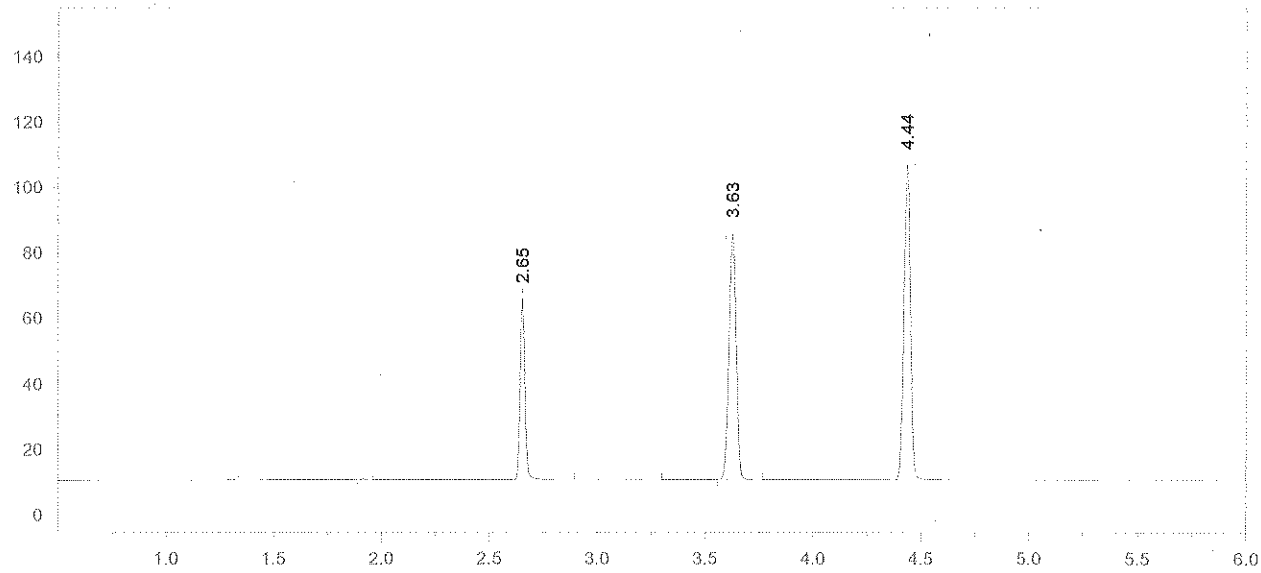


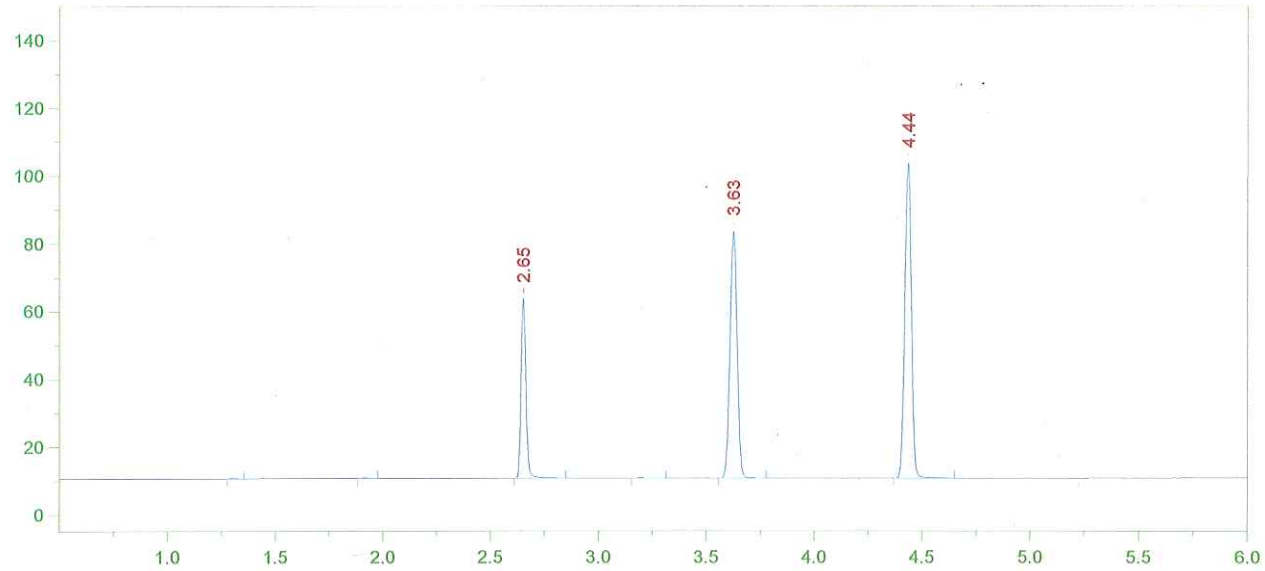
Format File Name = AlcoholVFL.FMT

Today's Date = 10/20/2014
Today's Time = 11:47:12 PM
Bound File Name = VFL10202014.0029.RAW
Sample Name = CCS
Date Taken = 10/20/2014 11:47:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	86698	0.0792 *
5	3.63	t-Butanol	173801	0.9736
6	4.44	n-Propanol	205528	1.0000

Avg #28 + #29 = 0.078
Ken 10/21/14

14-14-100
32
Ken

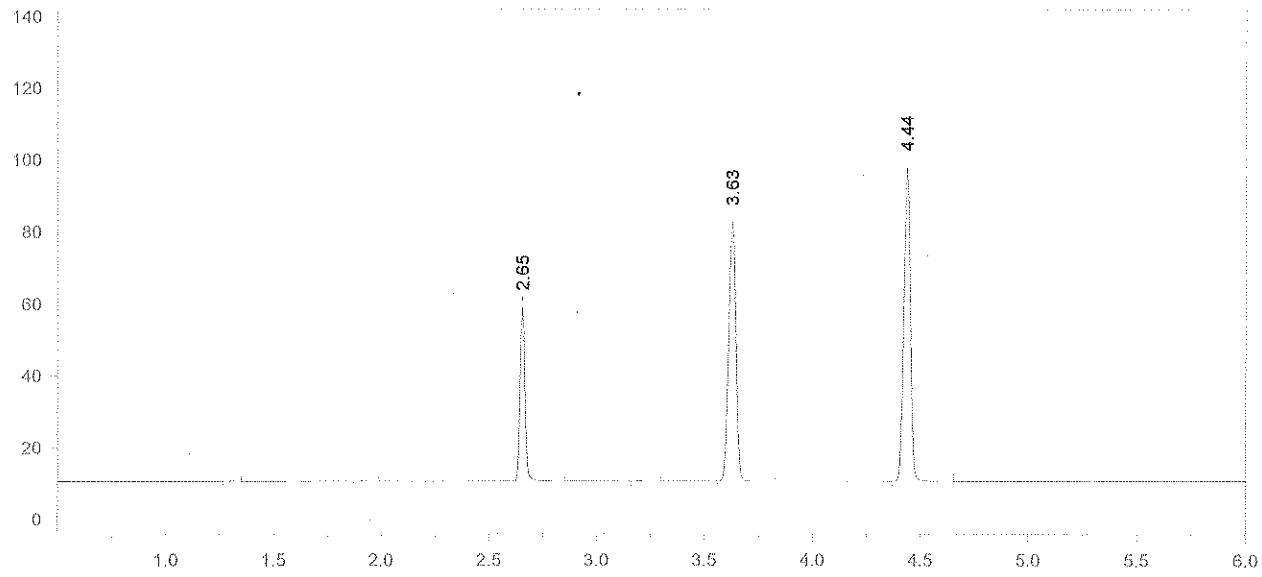


Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 12:18:49 AM
Bound File Name = VFL10202014.0031.RAW
Sample Name = CCS
Date Taken = 10/21/2014 12:18:39 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82764	0.0785
5	3.63	t-Butanol	168161	0.9783
6	4.44	n-Propanol	197898	1.0000

14-14-100 33



Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 12:34:37 AM
Bound File Name = VFL10202014.0032.RAW
Sample Name = CCS
Date Taken = 10/21/2014 12:34:33 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10202014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	76273	0.0769 *
5	3.63	t-Butanol	168124	1.0400
6	4.44	n-Propanol	186115	1.0000

Avg #31 + #32 = 0.078
Rem 10/21/14

14-14-100 34 Rem

File Name: C:\Methods\SIM10212014.CAL
Version: 7

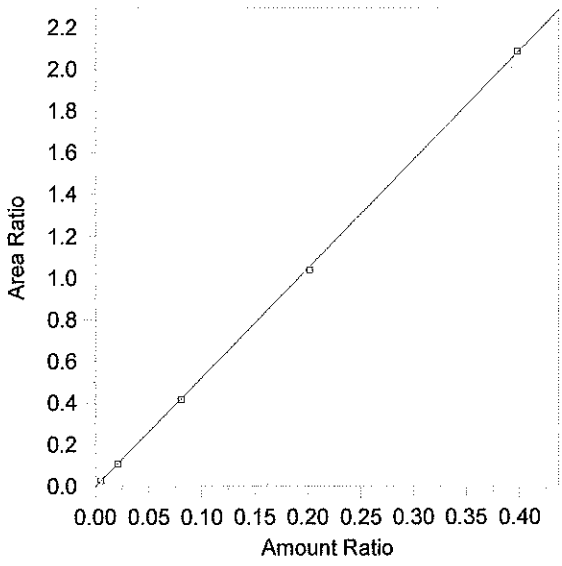
Creator:
Description:
Reason for change:

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: 2.653 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

$Y = 5.225546 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9998856
Average error: 1.347%
Average CF: 5.213624
RSD: 1.664%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.0052	5783.259	1112165	2.378	0.0052	2.781903E-02	C:\Alcohol Data\SIM10212014\SIM10212014.0003.BND	10/21/2014 5:10:00 PM
3	0.021	22269.42	1060449	-1.585	0.021	0.1079976	C:\Alcohol Data\SIM10212014\SIM10212014.0004.BND	10/21/2014 5:27:46 PM
4	0.0803	87524.24	1089966	-0.880	0.0803	0.4159172	C:\Alcohol Data\SIM10212014\SIM10212014.0005.BND	10/21/2014 5:41:36 PM
5	0.2014	224404.3	1114222	-1.472	0.2014	1.036929	C:\Alcohol Data\SIM10212014\SIM10212014.0006.BND	10/21/2014 5:57:27 PM
6	0.3972	428029.5	1077617	0.419	0.3972	2.084274	C:\Alcohol Data\SIM10212014\SIM10212014.0007.BND	10/21/2014 6:12:57 PM

14-14-100 35

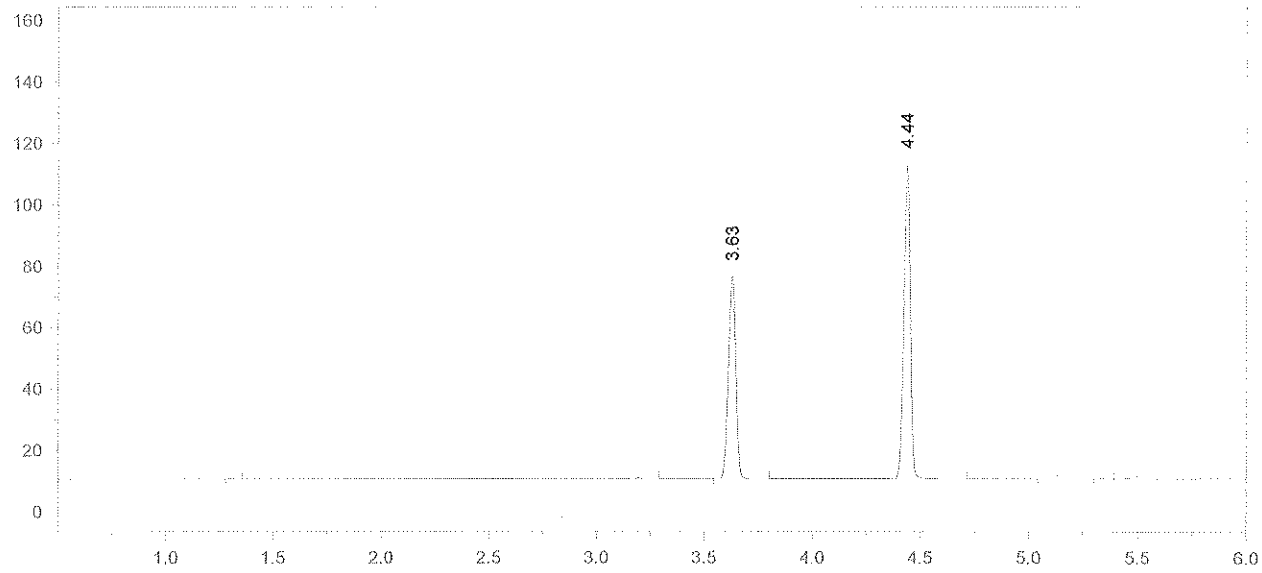
File Name = C:\Alcohol Data\SIM10212014\SIM10212014.SEQ
Version = 1
File Date = 10/21/2014 4:02:42 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM10212014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM10212014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM10212014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM10212014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM10212014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM10212014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM10212014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM10212014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM10212014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM10212014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM10212014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM10212014.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	SIM10212014.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	SIM10212014.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	SIM10212014.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	SIM10212014.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	SIM10212014.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	SIM10212014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	SIM10212014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM10212014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM10212014.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	SIM10212014.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	SIM10212014.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	SIM10212014.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	SIM10212014.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	SIM10212014.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	SIM10212014.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	SIM10212014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM10212014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Lot #s

Aqueous Blank: BL-08112014
Timing Mix: TMX-08112014
Aqueous Control: Cerilliant FN021111-03
Ethanol Standards: ES-09122014
Internal Standard: IS-10172014

Rem 10/22/14

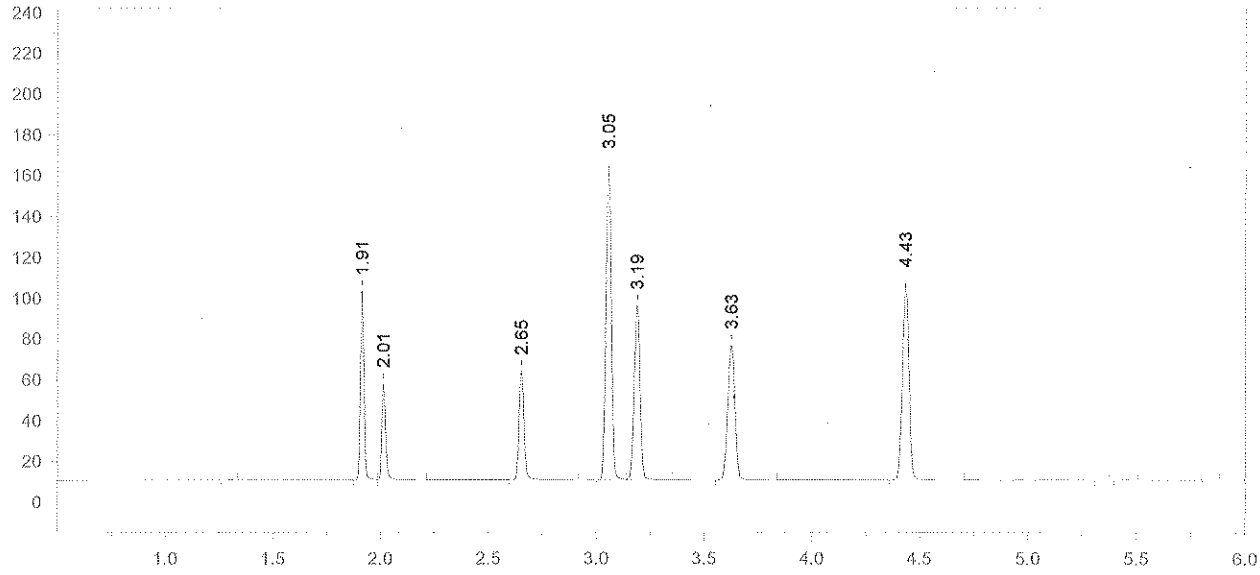


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014 Today's Time = 7:57:12 AM
Bound File Name = SIM10212014.0001.RAW
Sample Name = Blank
Date Taken = 10/21/2014 4:38:36 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	152897	0.9629
4	4.44	n-Propanol	216676	1.0000

14-14-100 37

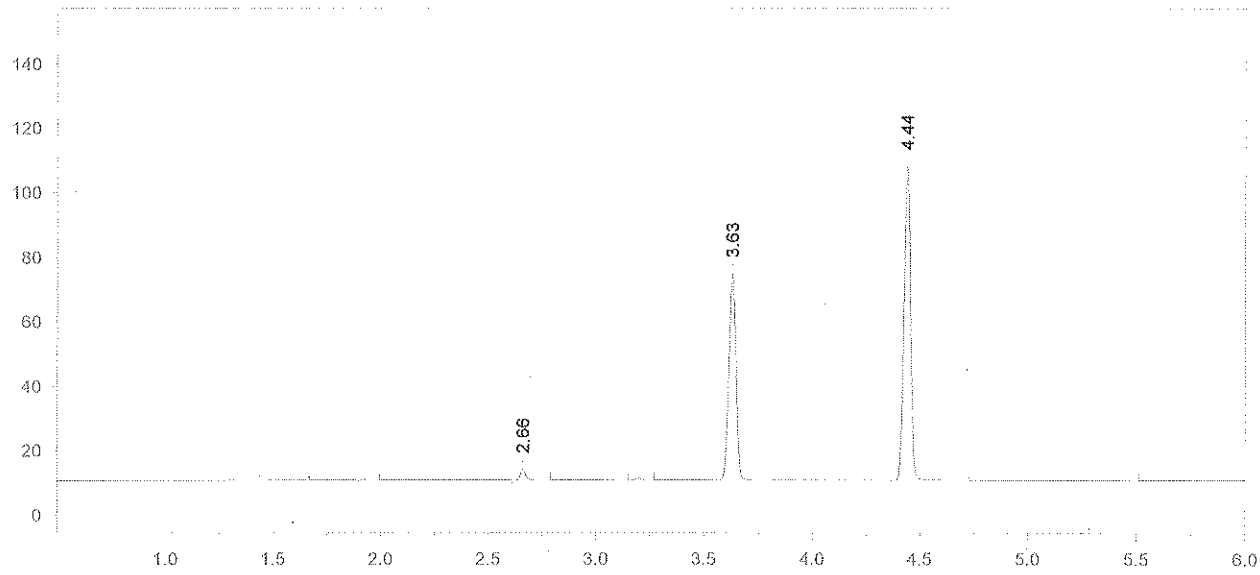


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014 Today's Time = 7:57:21 AM
Bound File Name = SIM10212014.0002.RAW
Sample Name = TMX
Date Taken = 10/21/2014 4:56:12 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	109114	0.0695
3	2.01	Methanol	60313	0.1232
4	2.65	Ethanol	84353	0.0790
5	3.05	Acetone	266083	0.0657
6	3.19	Isopropanol	160513	0.0848
7	3.63	t-Butanol	153705	1.0266
8	4.43	n-Propanol	204318	1.0000

14-14-100 38 Ken

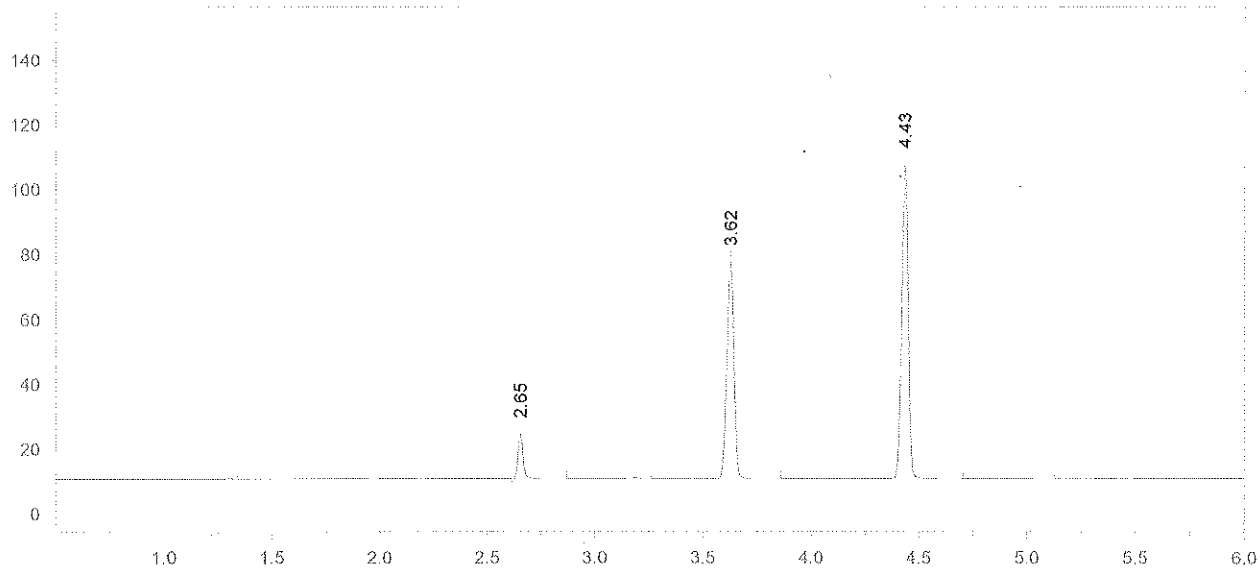


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014
Today's Time = 7:57:27 AM
Bound File Name = SIM10212014.0003.RAW
Sample Name = STD A
Date Taken = 10/21/2014 5:09:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05783	0.0053 *
6	3.63	t-Butanol	148910	0.9775
7	4.44	n-Propanol	207889	1.0000

14-14-100 39 Ken

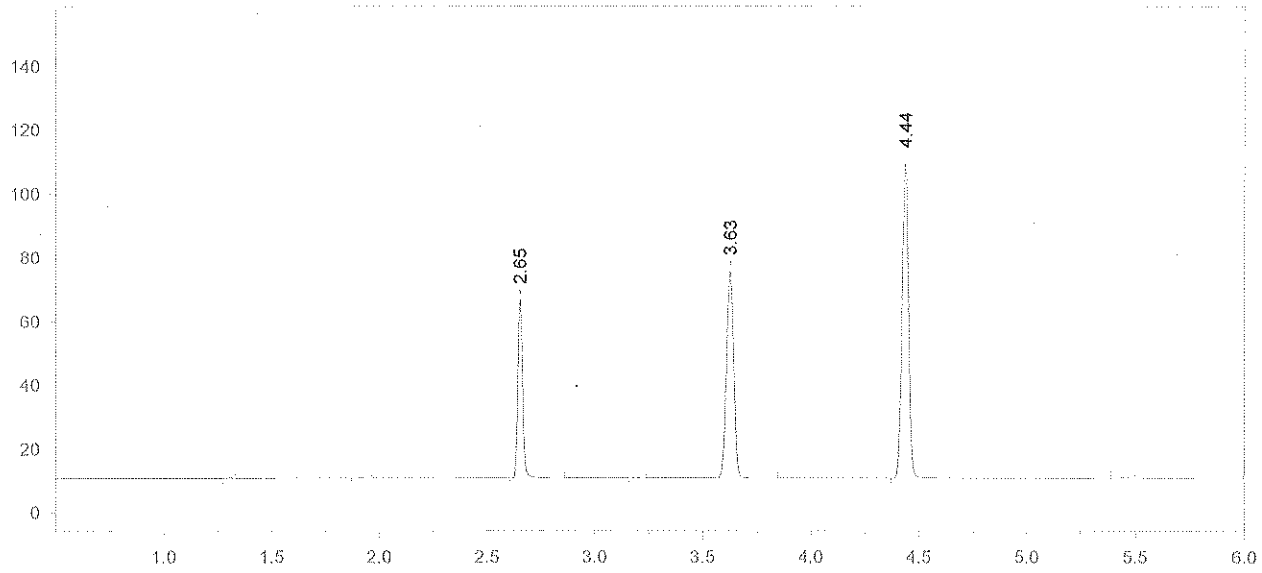


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014
Today's Time = 7:57:32 AM
Bound File Name = SIM10212014.0004.RAW
Sample Name = STD B
Date Taken = 10/21/2014 5:27:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	22269	0.0207 *
4	3.62	t-Butanol	155637	1.0300
5	4.43	n-Propanol	206203	1.0000

14-14-100 40

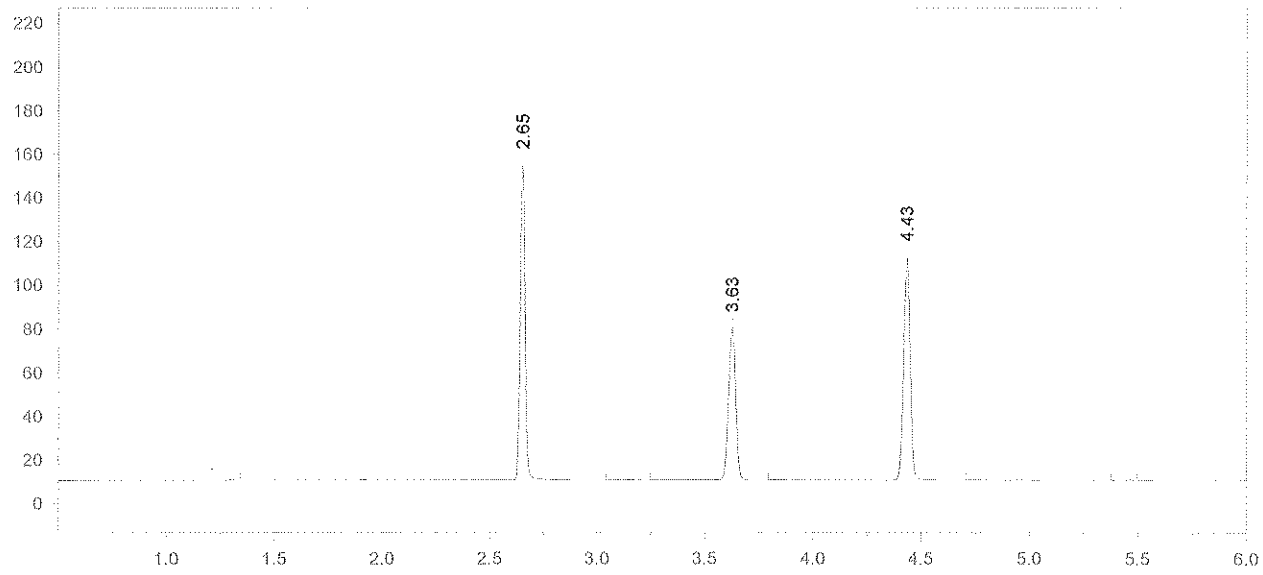


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014
Today's Time = 7:57:39 AM
Bound File Name = SIM10212014.0005.RAW
Sample Name = STD C
Date Taken = 10/21/2014 5:41:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	87524	0.0796 *
5	3.63	t-Butanol	150290	0.9746
6	4.44	n-Propanol	210437	1.0000

14-14-100 41

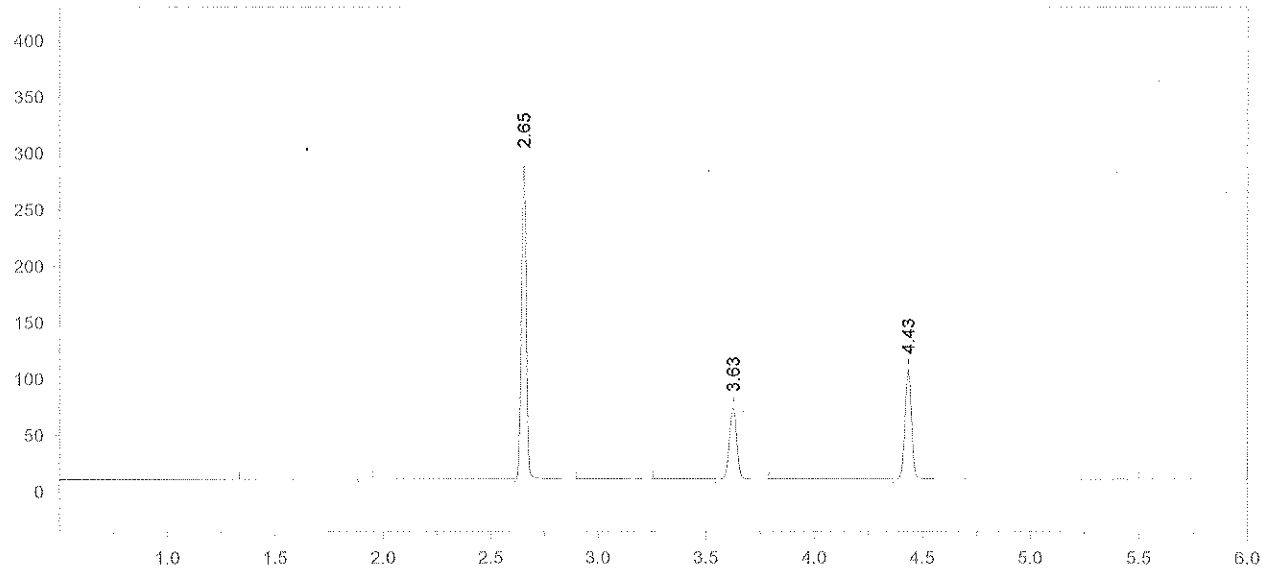


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014 Today's Time = 7:57:47 AM
Bound File Name = SIM10212014.0006.RAW
Sample Name = STD D
Date Taken = 10/21/2014 5:57:21 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	224404	0.1984 *
4	3.63	t-Butanol	161642	1.0192
5	4.43	n-Propanol	216412	1.0000

14-14-100 42

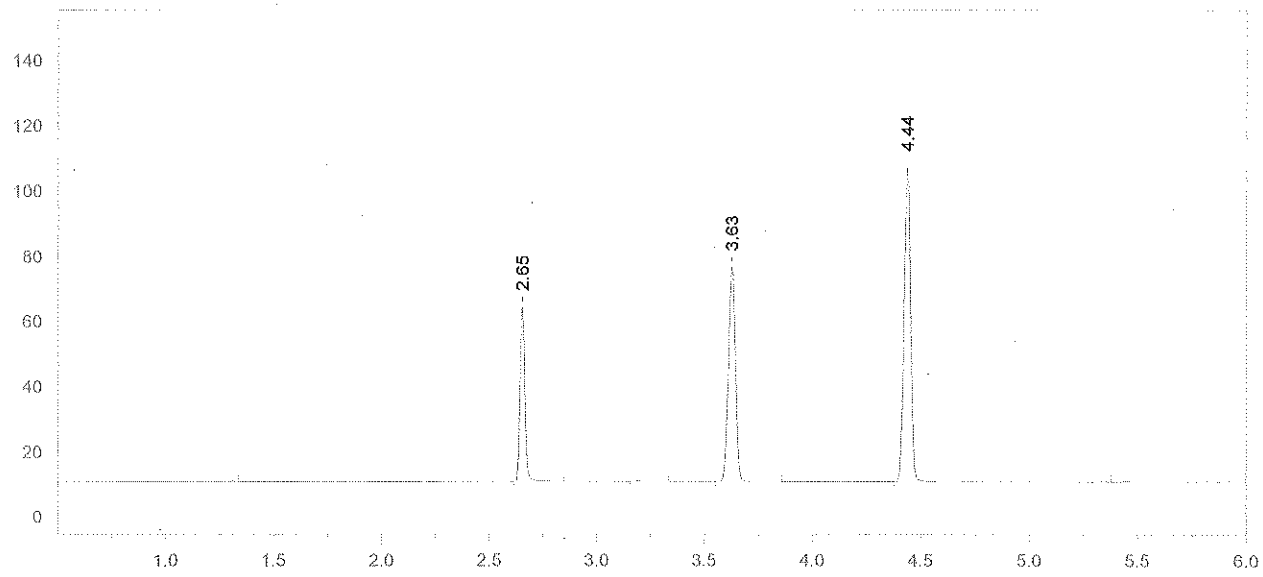


Format File Name = AlcoholVFL.FMT

Today's Date = 10/22/2014
Today's Time = 7:57:53 AM
Bound File Name = SIM10212014.0007.RAW
Sample Name = STD E
Date Taken = 10/21/2014 6:12:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	428030	0.3989*
5	3.63	t-Butanol	146309	0.9722
6	4.43	n-Propanol	205361	1.0000

14-14-100 43

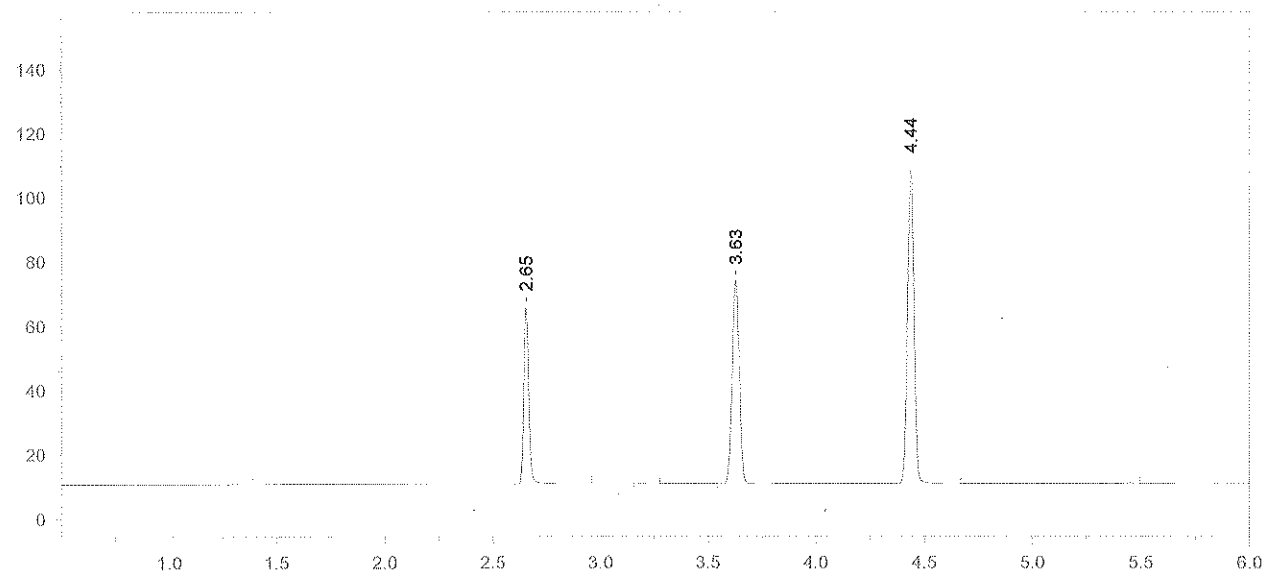


Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 6:29:02 PM
Bound File Name = SIM10212014.0008.RAW
Sample Name = AQ QC
Date Taken = 10/21/2014 6:28:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84140	0.0786 *
4	3.63	t-Butanol	153577	1.0236
5	4.44	n-Propanol	204732	1.0000

14-14-100 44



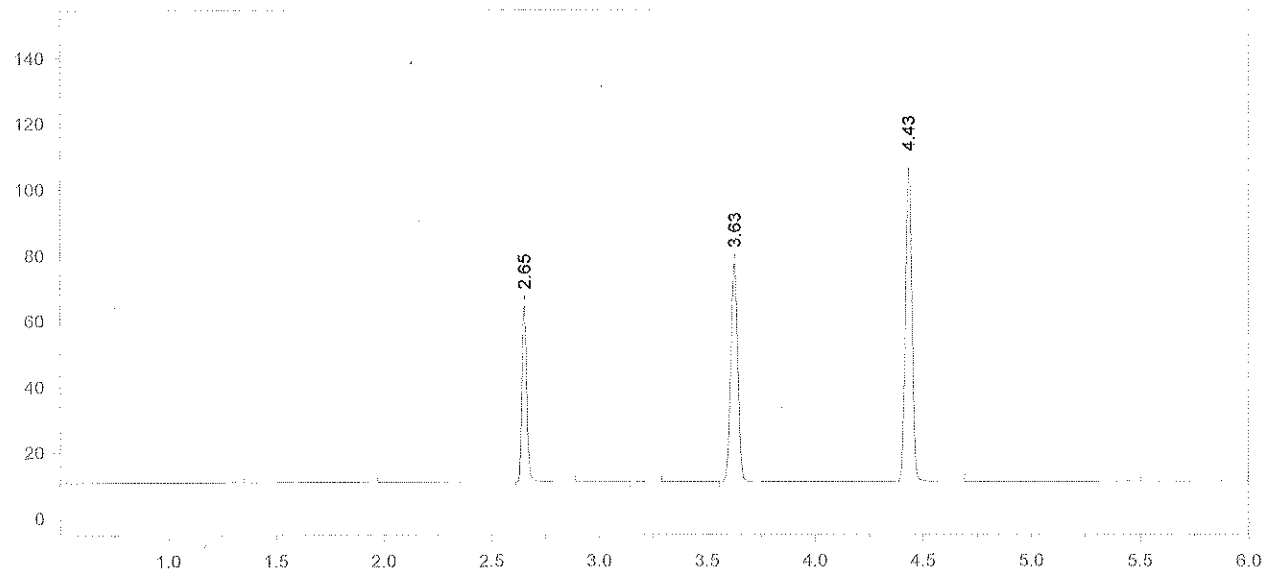
Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014 Today's Time = 6:43:25 PM
Bound File Name = SIM10212014.0009.RAW
Sample Name = AQ QC
Date Taken = 10/21/2014 6:43:16 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86904	0.0801 *
4	3.63	t-Butanol	147358	0.9680
5	4.44	n-Propanol	207727	1.0000

Avg #8 + #9 = 0.079
Target value: 0.080
% recovery = 99 %
RZM 10/22/14

14-14-100 45 RZM

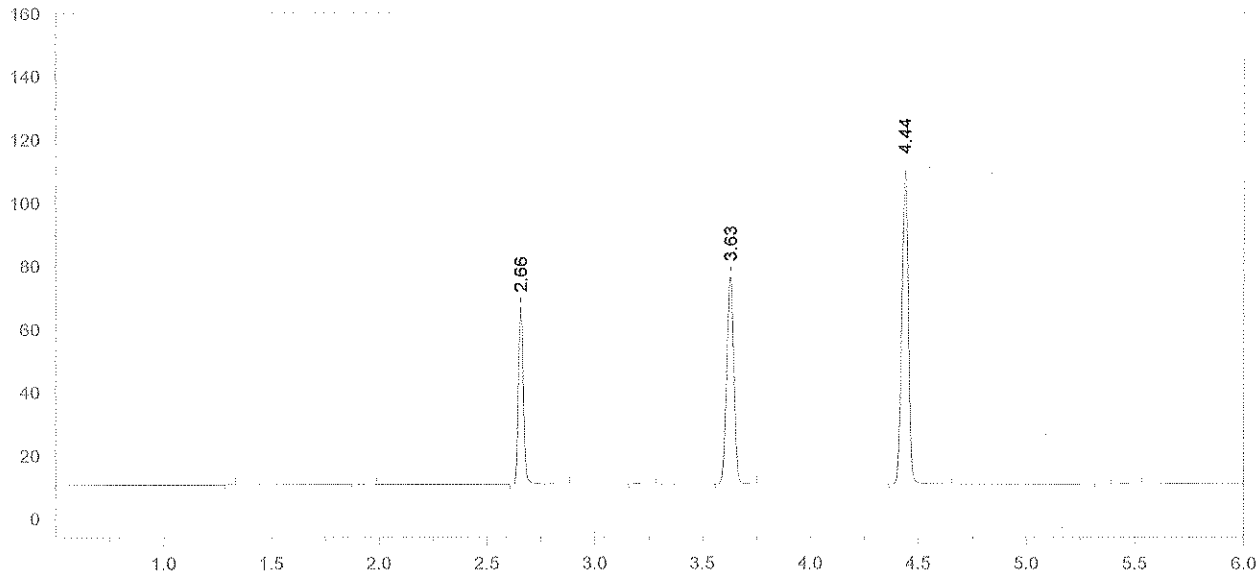


Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 7:00:25 PM
Bound File Name = SIM10212014.0010.RAW
Sample Name = CCS
Date Taken = 10/21/2014 7:00:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	83966	0.0788 *
5	3.63	t-Butanol	153476	1.0277
6	4.43	n-Propanol	203795	1.0000

14-14-100 46



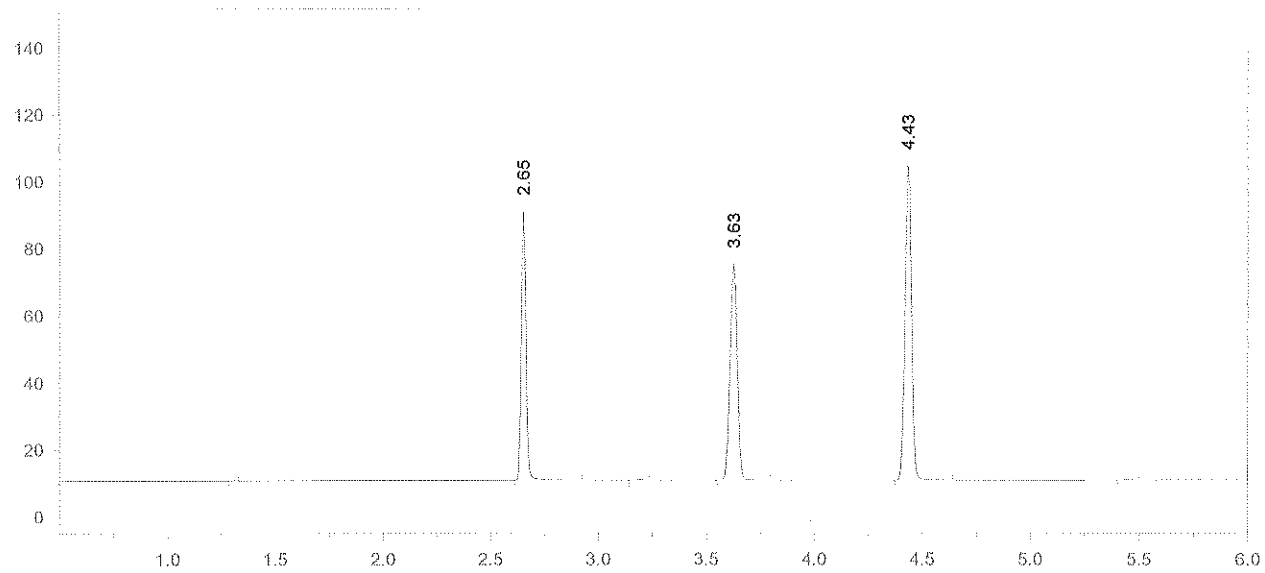
Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 7:13:44 PM
Bound File Name = SIM10212014.0011.RAW
Sample Name = CCS
Date Taken = 10/21/2014 7:13:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	88284	0.0797 *
5	3.63	t-Butanol	151664	0.9766
6	4.44	n-Propanol	211916	1.0000

Avg # 10 + #11 = 0.079
Kem 10/22/14

14-14-100 47 Kem

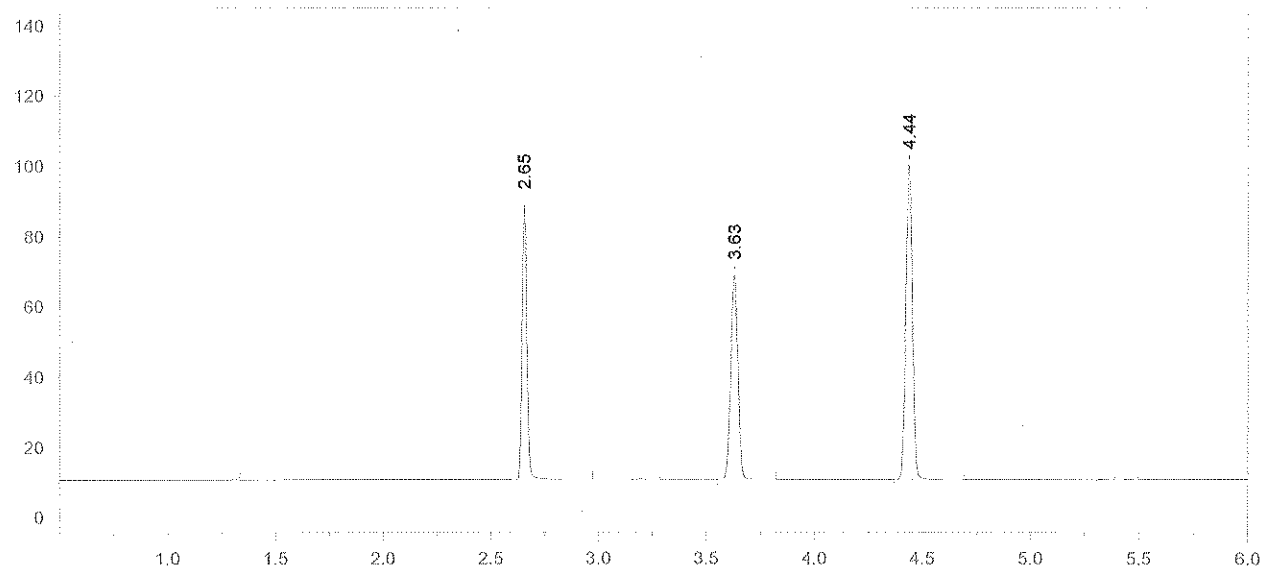


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 7:31:48 PM
Bound File Name = SIM10212014.0012.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 7:31:44 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124483	0.1194	0.0975
4	3.63	t-Butanol	149629	1.0236	0.8354
5	4.43	n-Propanol	199484	1.0000	0.8162

14-14-100 48

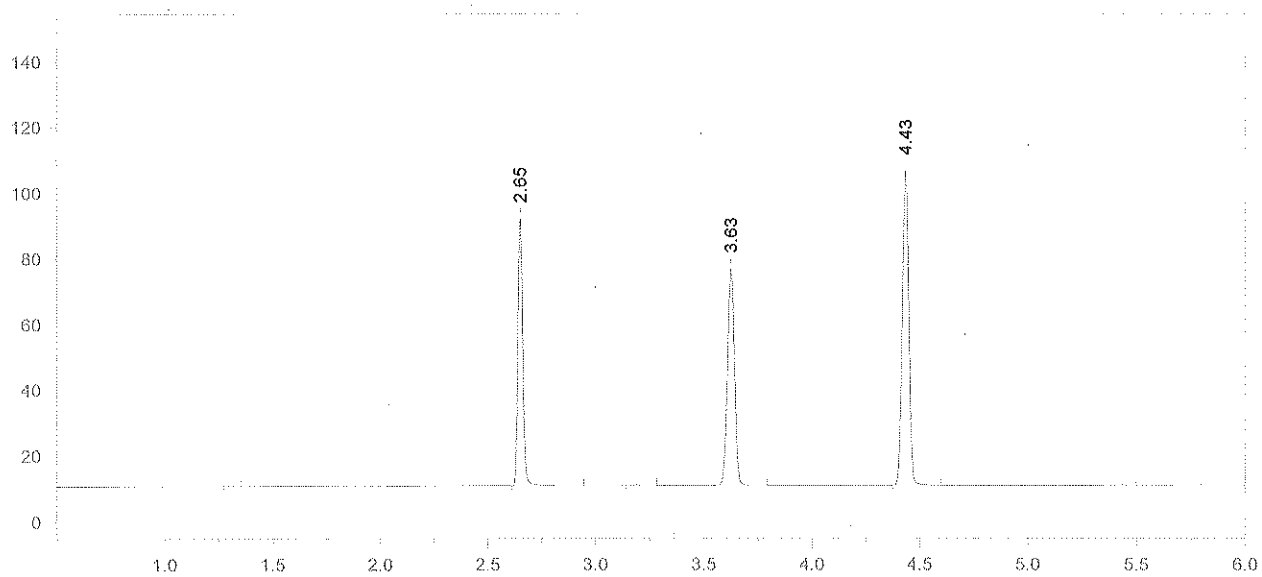


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 7:46:01 PM
Bound File Name = SIM10212014.0013.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 7:45:57 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122773	0.1230	0.1004
4	3.63	t-Butanol	135023	0.9645	0.7873
5	4.44	n-Propanol	191025	1.0000	0.8162

14-14-100 49 Ren

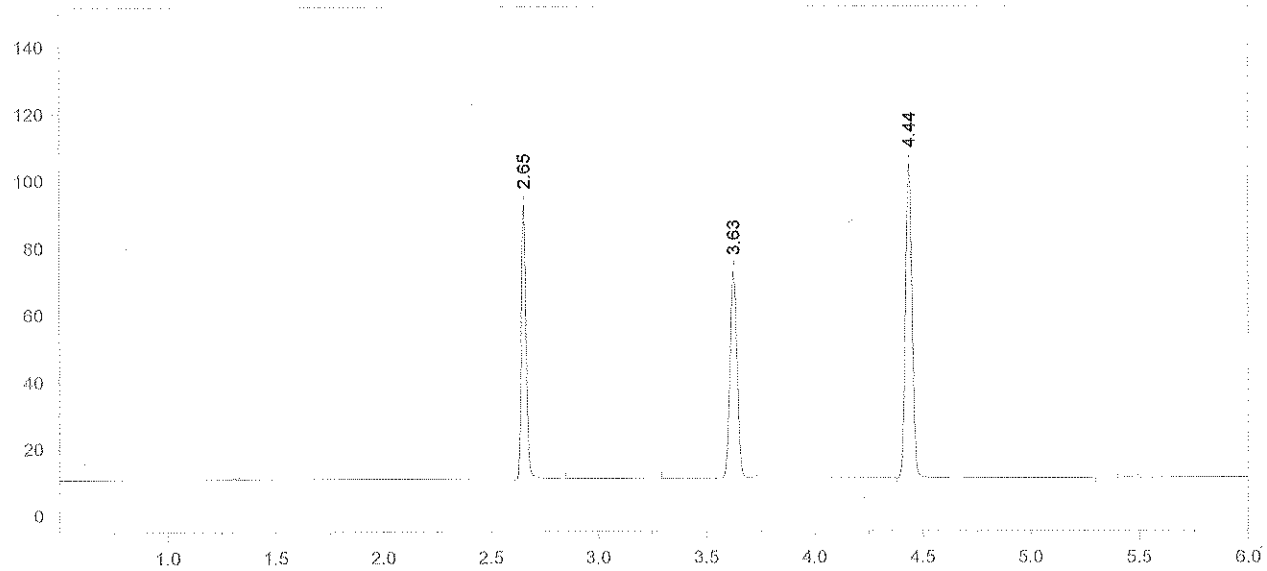


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 8:03:13 PM
Bound File Name = SIM10212014.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 8:03:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127112	0.1201	0.0980
4	3.63	t-Butanol	153143	1.0316	0.8420
5	4.43	n-Propanol	202573	1.0000	0.8162

14-14-100 50

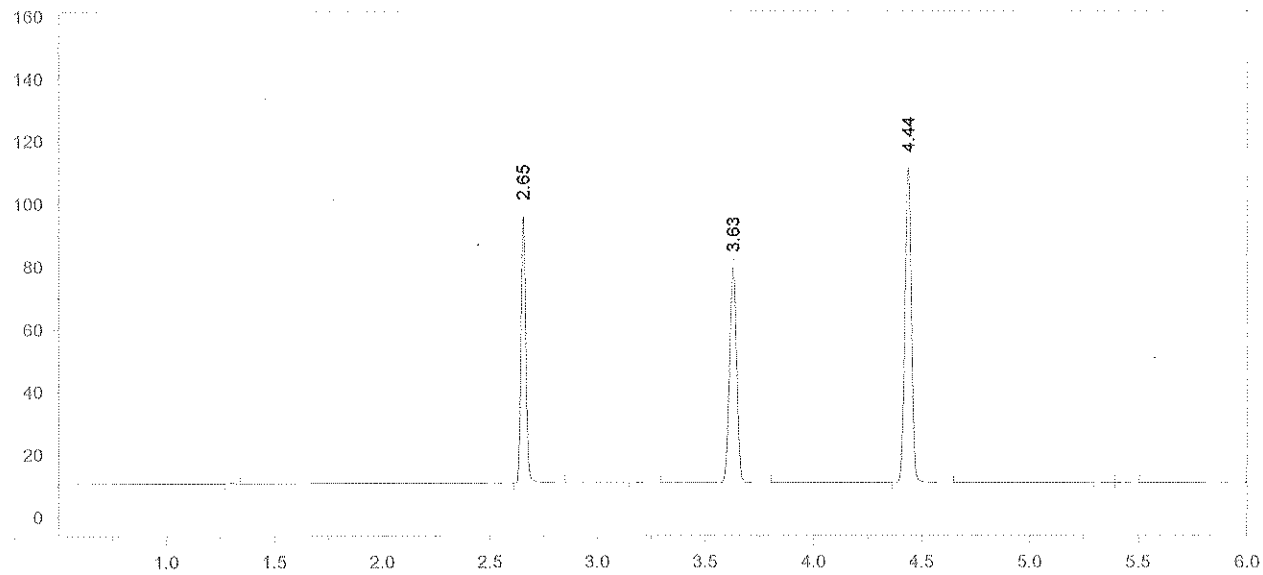


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 8:16:34 PM
Bound File Name = SIM10212014.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 8:16:26 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126547	0.1210	0.0988
4	3.63	t-Butanol	142917	0.9746	0.7955
5	4.44	n-Propanol	200106	1.0000	0.8162

14-14-100 51

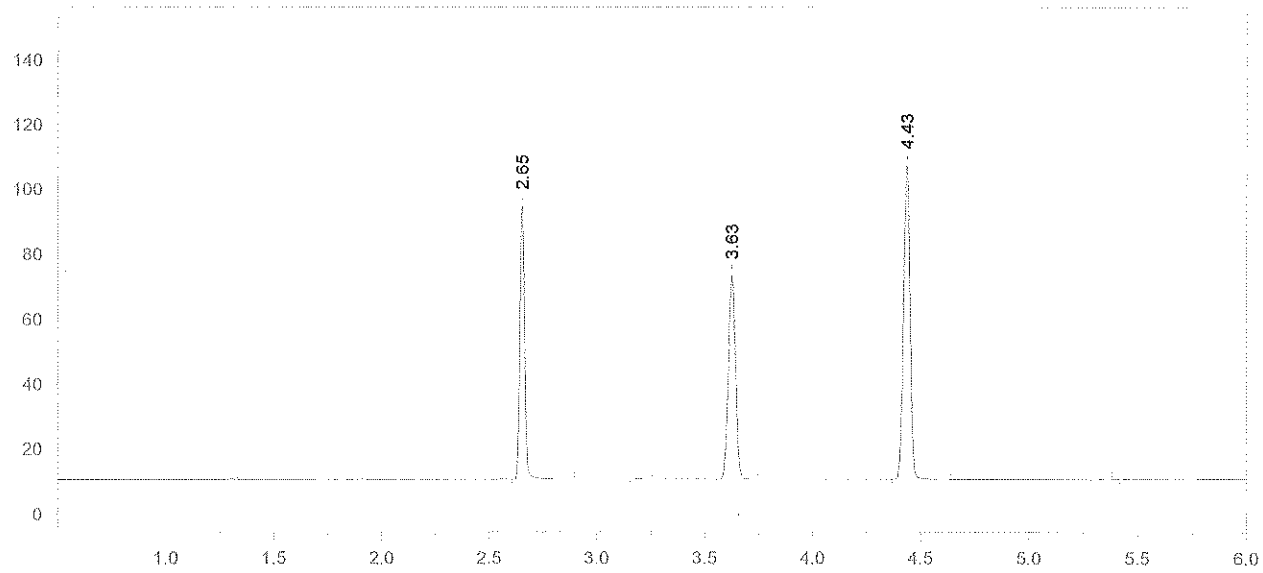


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 8:32:56 PM
Bound File Name = SIM10212014.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 8:32:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131900	0.1189	0.0971
4	3.63	t-Butanol	159075	1.0227	0.8347
5	4.44	n-Propanol	212256	1.0000	0.8162

14-14-100 52 Ken

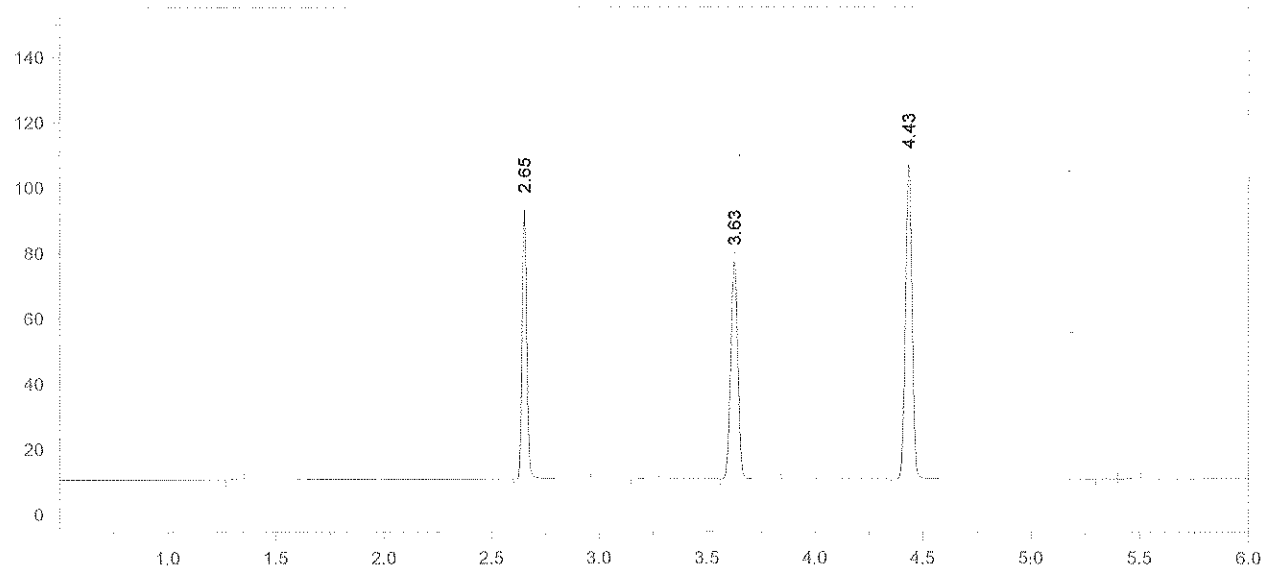


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 8:48:33 PM
Bound File Name = SIM10212014.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 8:48:23 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131506	0.1222	0.0997
4	3.63	t-Butanol	145522	0.9639	0.7867
5	4.43	n-Propanol	206021	1.0000	0.8162

14-14-100 53

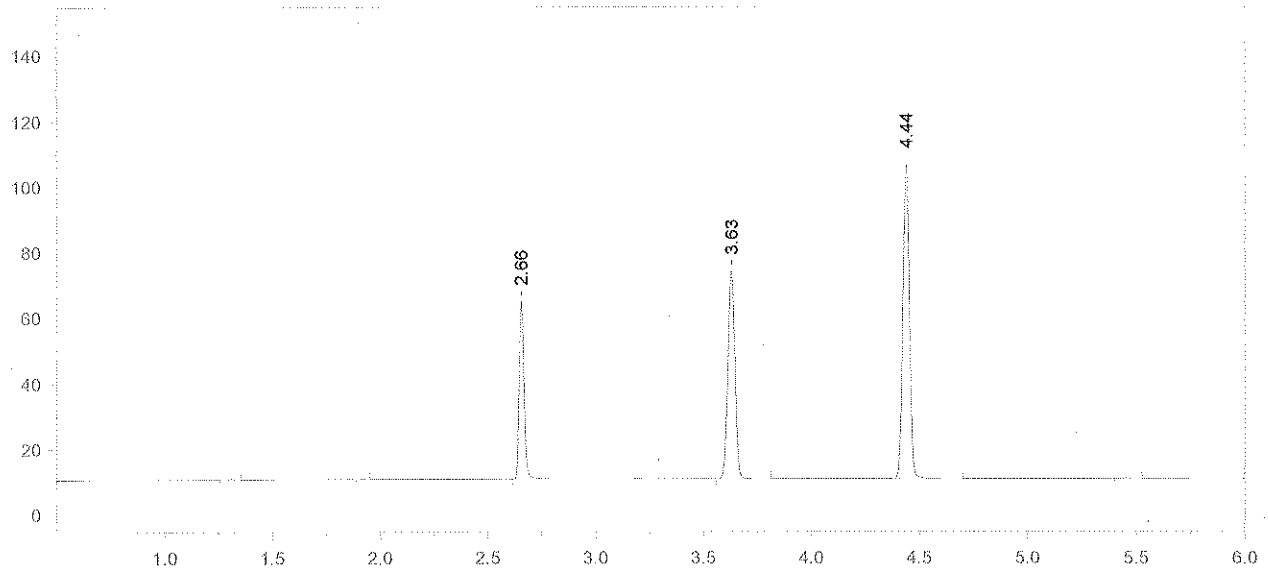


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 9:04:31 PM
Bound File Name = SIM10212014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 10/21/2014 9:04:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128523	0.1199	0.0978
4	3.63	t-Butanol	154094	1.0248	0.8364
5	4.43	n-Propanol	205190	1.0000	0.8162

14-14-100 54 Ken

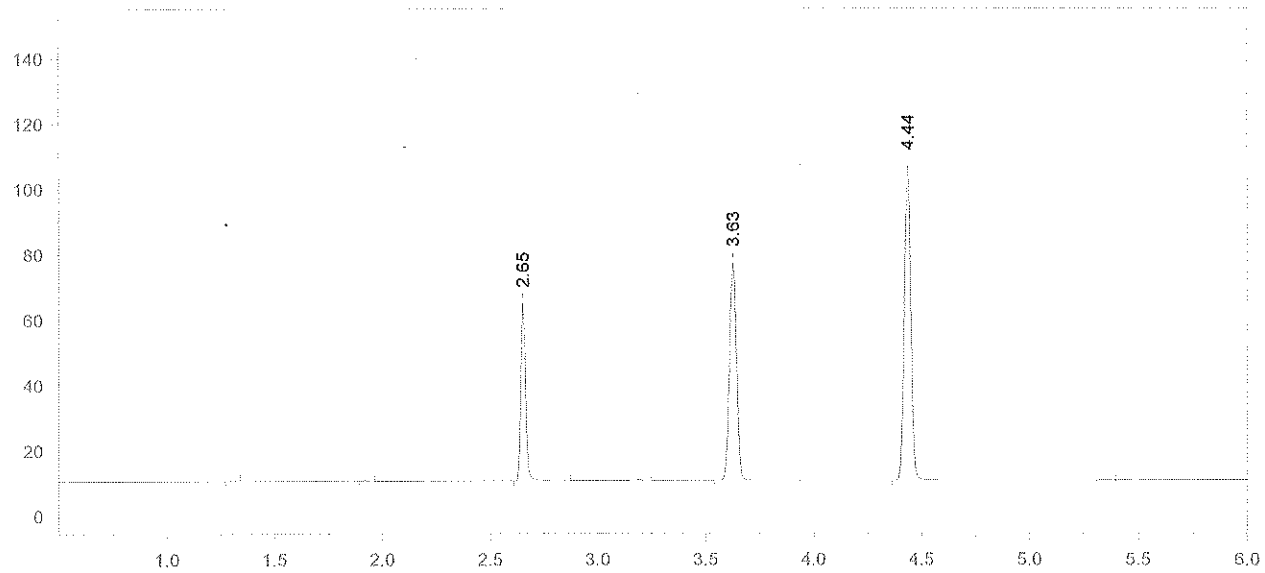


Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 9:18:12 PM
Bound File Name = SIM10212014.0019.RAW
Sample Name = CCS
Date Taken = 10/21/2014 9:18:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	84850	0.0797 *
5	3.63	t-Butanol	147313	0.9864
6	4.44	n-Propanol	203793	1.0000

14-14-100 55



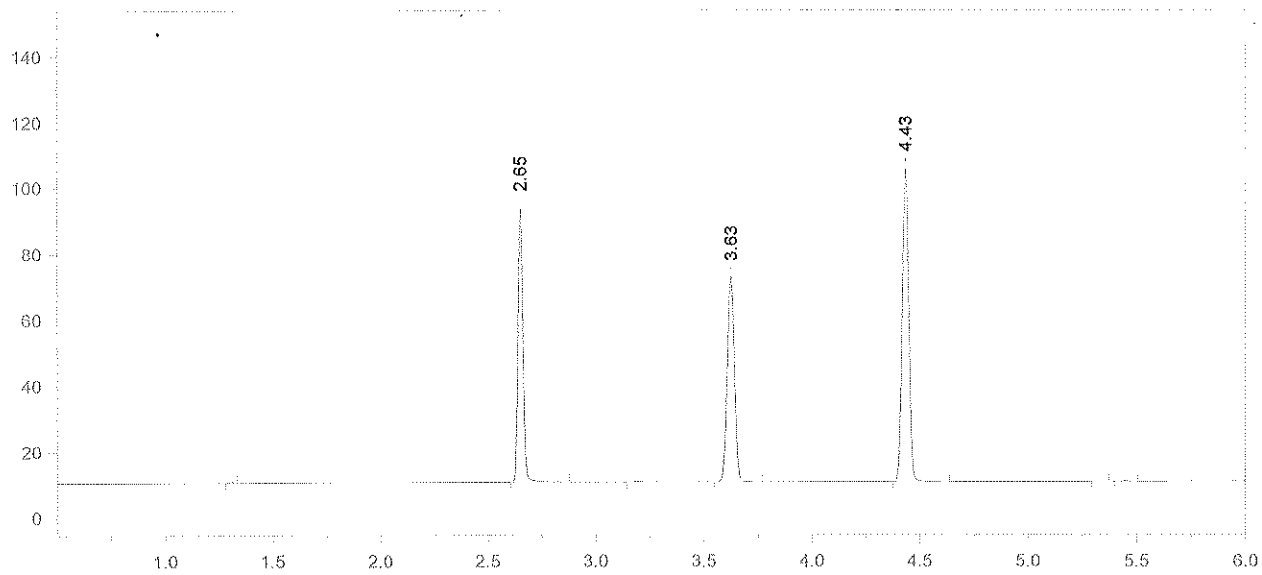
Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 9:35:53 PM
Bound File Name = SIM10212014.0020.RAW
Sample Name = CCS
Date Taken = 10/21/2014 9:35:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	84302	0.0787 *
5	3.63	t-Butanol	154707	1.0298
6	4.44	n-Propanol	205003	1.0000

Avg #19 + #20 = 0.079
KM 10/22/14

14-14-100 56 KM

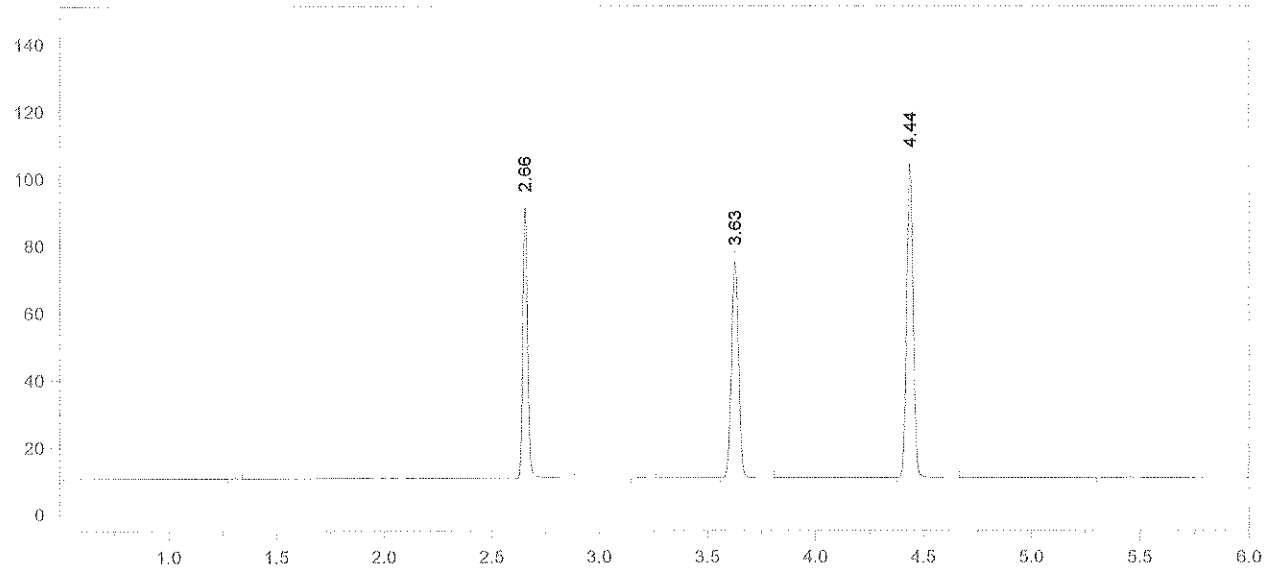


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 9:49:09 PM
Bound File Name = SIM10212014.0021.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 9:49:04 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129263	0.1222	0.0997
4	3.63	t-Butanol	144559	0.9745	0.7954
5	4.43	n-Propanol	202434	1.0000	0.8162

14-14-100 57

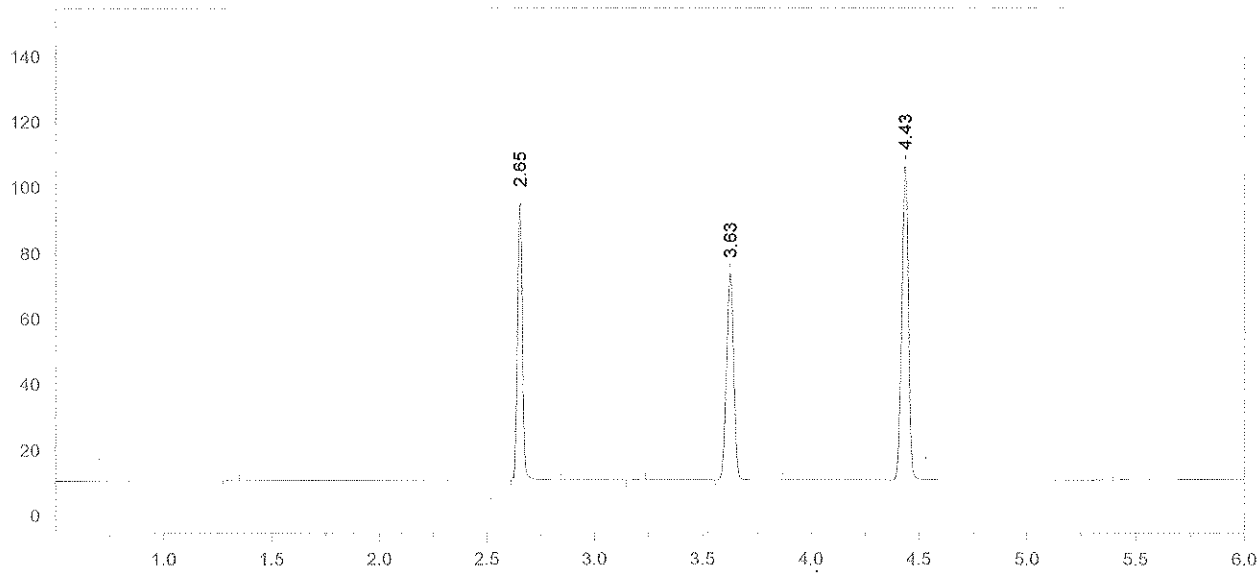


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 10:07:20 PM
Bound File Name = SIM10212014.0022.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 10:07:10 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	126431	0.1213	0.0990
4	3.63	t-Butanol	149972	1.0260	0.8374
5	4.44	n-Propanol	199471	1.0000	0.8162

14-14-100 58

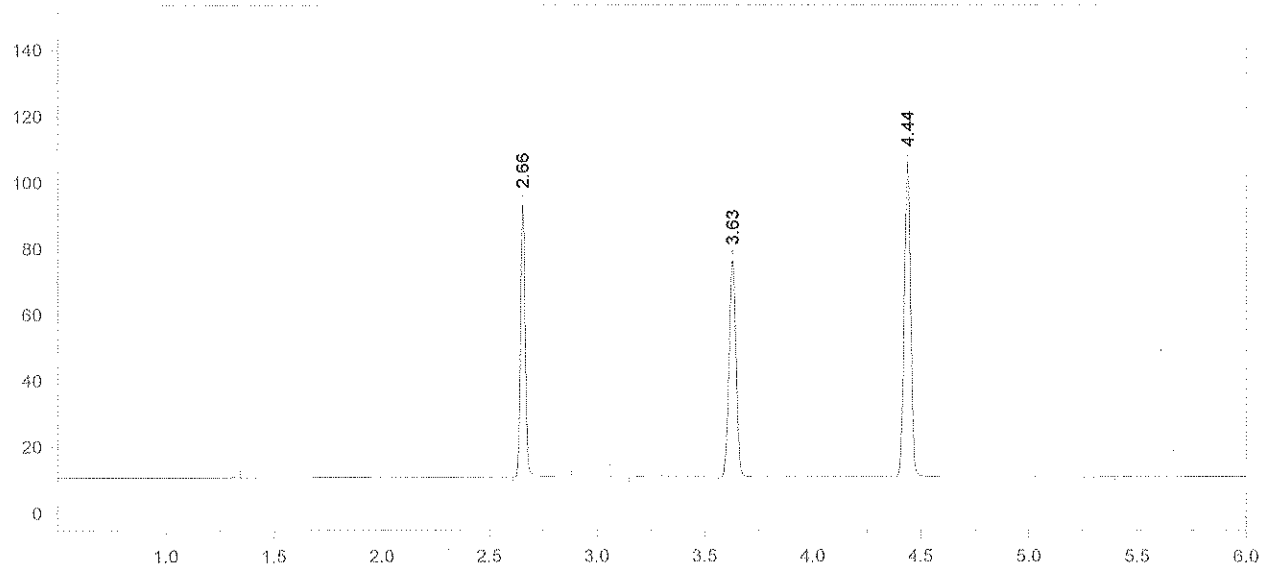


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 10:21:06 PM
Bound File Name = SIM10212014.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 10:20:58 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	132047	0.1237	0.1010
4	3.63	t-Butanol	145779	0.9737	0.7948
5	4.43	n-Propanol	204294	1.0000	0.8162

14-14-100 59

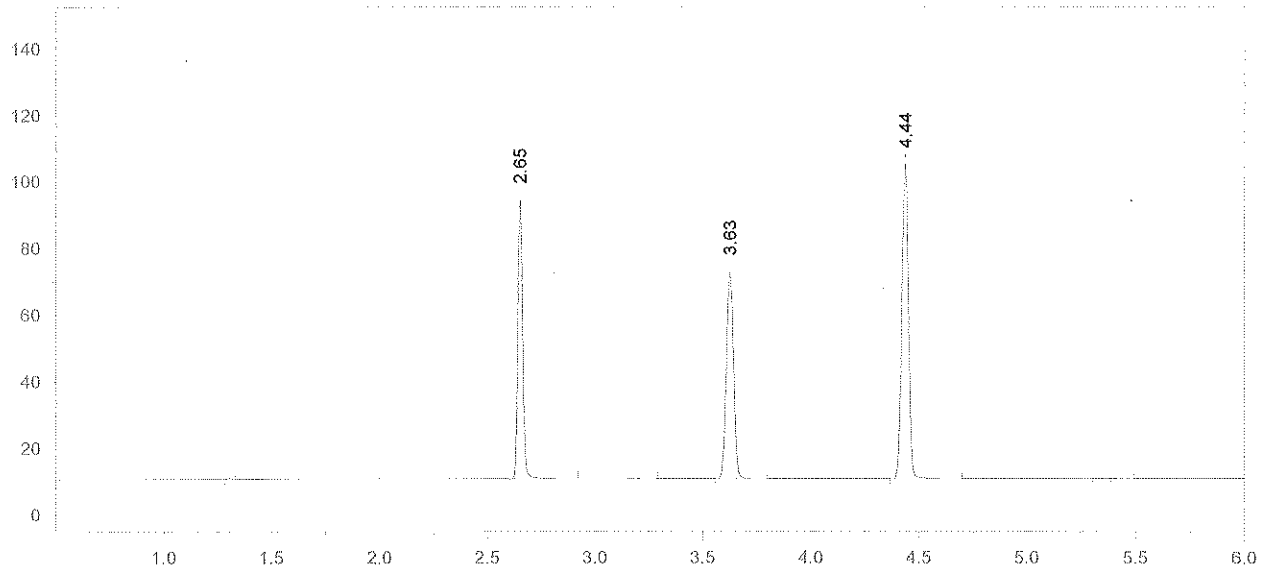


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 10:38:41 PM
Bound File Name = SIM10212014.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 10:38:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	128771	0.1226	0.1001
4	3.63	t-Butanol	151622	1.0298	0.8405
5	4.44	n-Propanol	200920	1.0000	0.8162

14-14-100 60

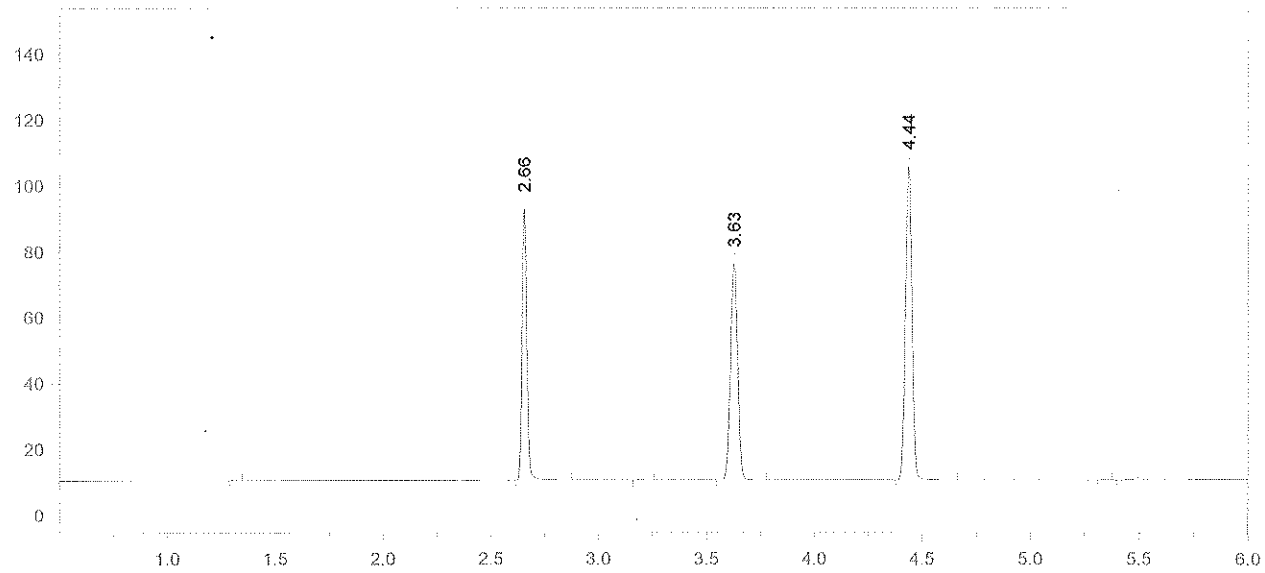


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 10:52:21 PM
Bound File Name = SIM10212014.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 10:52:15 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130653	0.1239	0.1011
4	3.63	t-Butanol	144226	0.9752	0.7960
5	4.44	n-Propanol	201808	1.0000	0.8162

14-14-100 61

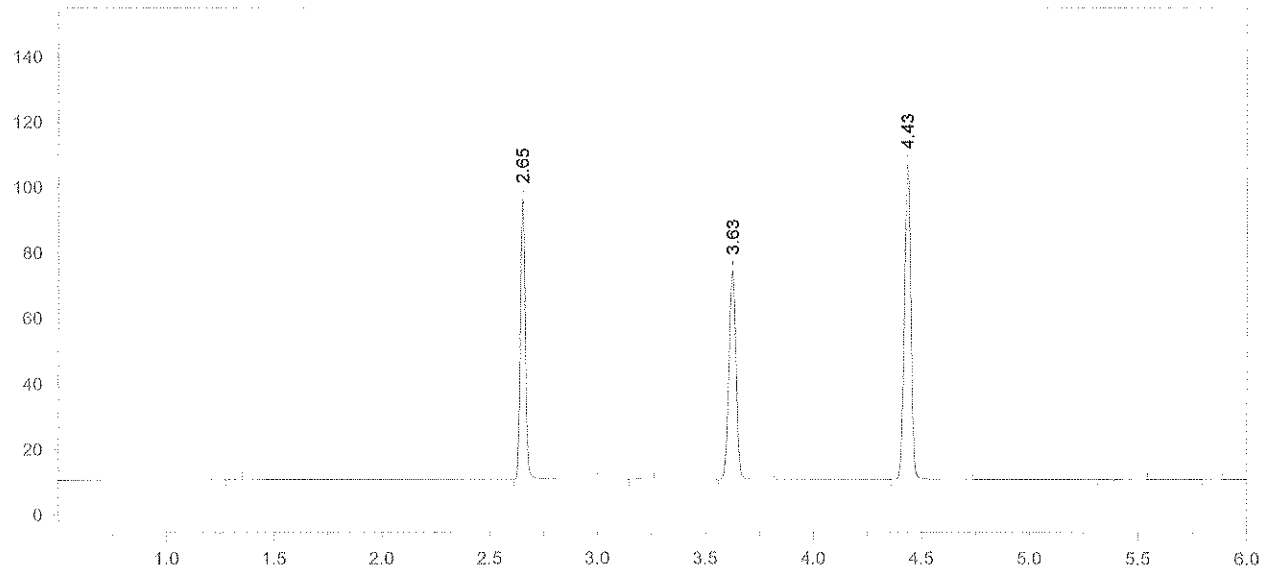


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 11:10:04 PM
Bound File Name = SIM10212014.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 11:09:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	128485	0.1216	0.0993
4	3.63	t-Butanol	152756	1.0311	0.8416
5	4.44	n-Propanol	202161	1.0000	0.8162

14-14-100 62 RZM

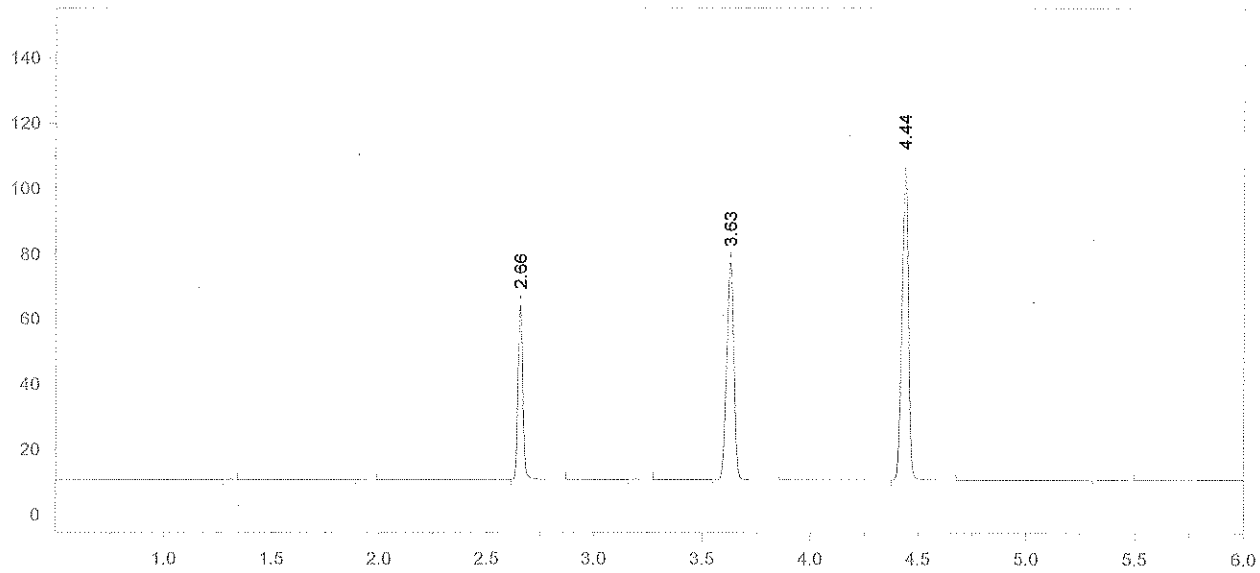


Format File Name = simsolnVFL.met.FMT

Today's Date = 10/21/2014 Today's Time = 11:23:57 PM
Bound File Name = SIM10212014.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 10/21/2014 11:23:47 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133445	0.1241	0.1013
4	3.63	t-Butanol	147713	0.9796	0.7996
5	4.43	n-Propanol	205756	1.0000	0.8162

14-14-100 63

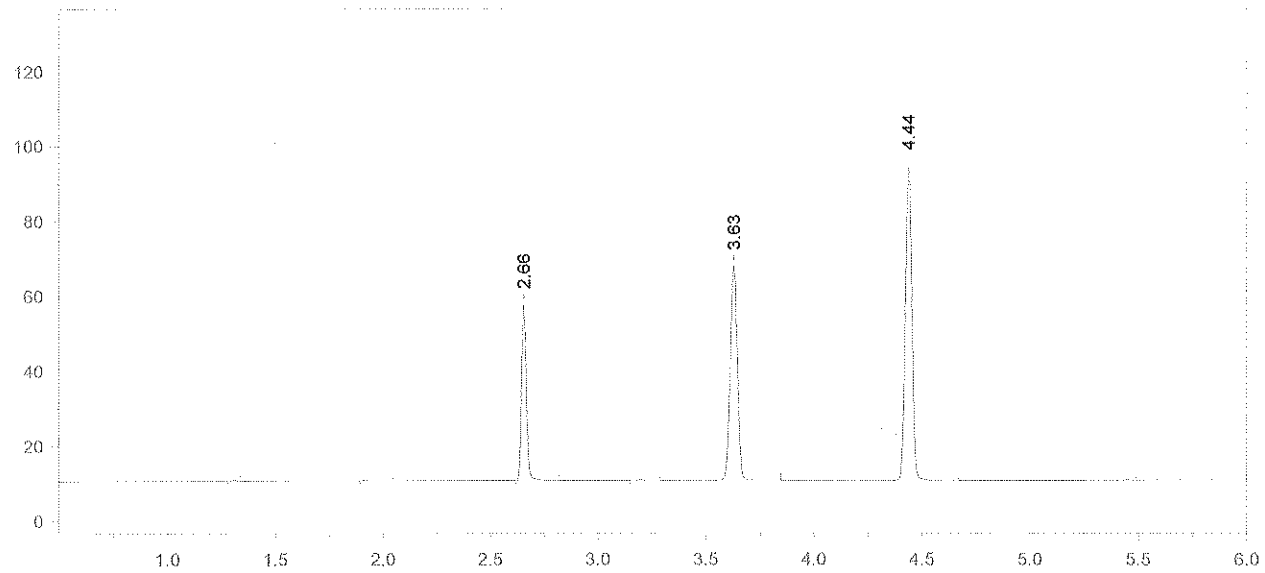


Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014 Today's Time = 11:41:33 PM
Bound File Name = SIM10212014.0028.RAW
Sample Name = CCS
Date Taken = 10/21/2014 11:41:26 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	84095	0.0786 *
5	3.63	t-Butanol	155252	1.0351
6	4.44	n-Propanol	204675	1.0000

14-14-100 64



Format File Name = AlcoholVFL.FMT

Today's Date = 10/21/2014
Today's Time = 11:55:27 PM
Bound File Name = SIM10212014.0029.RAW
Sample Name = CCS
Date Taken = 10/21/2014 11:55:16 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM10212014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	73679	0.0791 *
5	3.63	t-Butanol	132909	1.0172
6	4.44	n-Propanol	178296	1.0000

Avg # 28 + # 29 = 0.079
KEM 10/22/14

14-14-100 65 KEM