VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION ~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST

RLM 7/9/14

LOT # ~~AGENCY CASE#:~~ 14-07-100 ANALYST: RLM

LAB #: N/A RLM 7/9/14

TECHNICAL REVIEWER: AWB DATE: 7/9/14

- [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: 7/15/2014

- [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: 7/15/2014

- [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 Calibration Solution

On 7/3/2014, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster Calibration solution. The solution was prepared per standard laboratory practice and assigned the lot number 14-07-100 and an expiration date of 7/3/2015.

On 7/7/2014 and 7/8/2014, the solution was analyzed against calibration VFL07072014 and SIM07082014. 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 0.100 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Calibration solution.

Dated at Waterbury, Vermont on Wednesday, July 09, 2014.

Rebecca Mead

Rebecca Mead

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 Calibration Solution 2L
Lot # 14-07-100
Prepared 7/3/2014 by RLM
Exp 7/3/2015

RLM CAL VFL07072014
RLM/ALB Vials
Analyzed on 7/7/2014

0.0983	rlm
0.1006	
0.0984	
0.1000	
0.0972	
0.1003	
0.0974	
0.1017	alb
0.0999	
0.0996	
0.1004	
0.1025	
0.0995	
0.0990	

Ave. =	0.0996
Std Dev. =	0.0015
Range =	0.0972-0.1025

ALB CAL SIM07082014
RLM/ALB Vials
Analyzed on 7/8/2014

0.0973	rlm
0.1001	
0.0982	
0.0994	
0.0983	
0.0998	
0.0978	
0.1023	alb
0.0995	
0.1028	
0.1000	
0.1026	
0.0996	
0.0997	

Ave. =	0.0998
Std Dev. =	0.0017
Range =	0.0973-0.1028

Total Values from Both Runs

Average	Mean
0.0983	0.0972
0.1006	0.0973
0.0984	0.0974
0.1000	0.0978
0.0972	0.0982
0.1003	0.0983
0.0974	
0.1017	0.0984
0.0999	0.0990
0.0996	0.0994
0.1004	0.0995
0.1025	
0.0995	0.0996
0.0990	
0.0973	0.0997
0.1001	0.0998
0.0982	0.0999
0.0994	0.1000
0.0983	
0.0998	0.1001
0.0978	0.1003
0.1023	0.1004
0.0995	0.1006
0.1028	0.1017
0.1000	0.1023
0.1026	0.1025
0.0996	0.1026
0.0997	0.1028

Ave. =	0.0997
Avg Std Dev. =	0.0016
Mean =	0.0998
Mean Std Dev. =	0.0017
Range =	0.0972-0.1028
RPD =	5.61%

14-07-100 Page 1 of 81 RLM

File Name: C:\Methods\VFL07072014.CAL
Version: 7

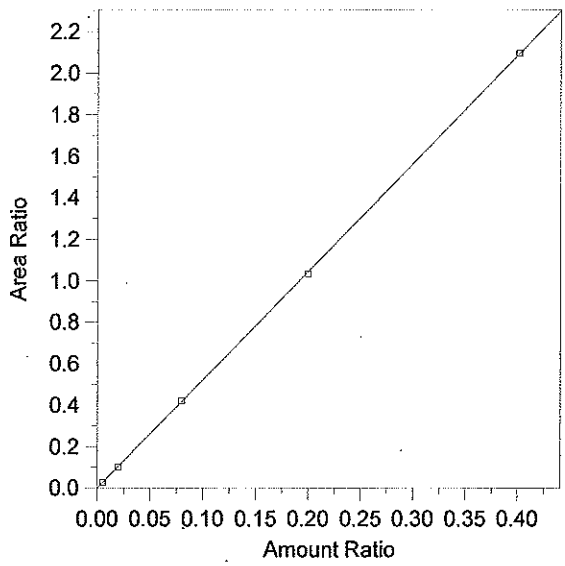
Creator:
Description:
Reason for change:

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 = 5.2187 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999595
Average error: 2.443%
Average CF: 5.280852
RSD: 4.011%

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	0.0049	5484.375	1119260	8.160	0.0049	0.0276584	C:\Alcohol Data\SIM07072014\SIM07072014.0003.BND	7/7/2014 12:33:56 PM
3	0.0197	19830.75	1006637	-2.250	0.0197	0.1004951	C:\Alcohol Data\SIM07072014\SIM07072014.0004.BND	7/7/2014 12:51:44 PM
4	0.0801	85044.93	1061735	0.730	0.0801	0.4210704	C:\Alcohol Data\SIM07072014\SIM07072014.0005.BND	7/7/2014 1:05:25 PM
5	0.1998	200734.3	1004676	-0.879	0.1998	1.033531	C:\Alcohol Data\SIM07072014\SIM07072014.0006.BND	7/7/2014 1:23:09 PM
6	0.4011	431571.6	1075970	0.193	0.4011	2.097265	C:\Alcohol Data\SIM07072014\SIM07072014.0007.BND	7/7/2014 1:36:21 PM

14-07-100 2 RM

File Name = C:\Alcohol Data\SIM07072014\SIM07072014.SEQ
Version = 1
File Date = 7/7/2014 11:24:00 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM07072014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM07072014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM07072014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM07072014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM07072014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM07072014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM07072014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM07072014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM07072014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM07072014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM07072014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM07072014.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	SIM07072014.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	SIM07072014.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	SIM07072014.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	SIM07072014.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	SIM07072014.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	SIM07072014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	SIM07072014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM07072014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM07072014.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	SIM07072014.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	SIM07072014.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	SIM07072014.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	SIM07072014.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	SIM07072014.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	SIM07072014.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	SIM07072014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM07072014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	SIM07072014.0030.raw	simsoln.met	0.08 RLM	1.00	1.00
31	SIM07072014.0031.raw	simsoln.met	0.08 RLM	1.00	1.00
32	SIM07072014.0032.raw	simsoln.met	0.08 RLM	1.00	1.00
33	SIM07072014.0033.raw	simsoln.met	0.08 RLM	1.00	1.00
34	SIM07072014.0034.raw	simsoln.met	0.08 RLM	1.00	1.00
35	SIM07072014.0035.raw	simsoln.met	0.08 RLM	1.00	1.00
36	SIM07072014.0036.raw	simsoln.met	0.08 RLM	1.00	1.00
37	SIM07072014.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	SIM07072014.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	SIM07072014.0039.raw	simsoln.met	0.08 ALB	1.00	1.00
40	SIM07072014.0040.raw	simsoln.met	0.08 ALB	1.00	1.00
41	SIM07072014.0041.raw	simsoln.met	0.08 ALB	1.00	1.00
42	SIM07072014.0042.raw	simsoln.met	0.08 ALB	1.00	1.00
43	SIM07072014.0043.raw	simsoln.met	0.08 ALB	1.00	1.00
44	SIM07072014.0044.raw	simsoln.met	0.08 ALB	1.00	1.00
45	SIM07072014.0045.raw	simsoln.met	0.08 ALB	1.00	1.00
46	SIM07072014.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	SIM07072014.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	SIM07072014.0048.raw	simsoln.met	0.4 RLM	1.00	1.00
49	SIM07072014.0049.raw	simsoln.met	0.4 RLM	1.00	1.00
50	SIM07072014.0050.raw	simsoln.met	0.4 RLM	1.00	1.00
51	SIM07072014.0051.raw	simsoln.met	0.4 RLM	1.00	1.00
52	SIM07072014.0052.raw	simsoln.met	0.4 RLM	1.00	1.00
53	SIM07072014.0053.raw	simsoln.met	0.4 RLM	1.00	1.00
54	SIM07072014.0054.raw	simsoln.met	0.4 RLM	1.00	1.00
55	SIM07072014.0055.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
56	SIM07072014.0056.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
57	SIM07072014.0057.raw	simsoln.met	0.4 ALB	1.00	1.00
58	SIM07072014.0058.raw	simsoln.met	0.4 ALB	1.00	1.00
59	SIM07072014.0059.raw	simsoln.met	0.4 ALB	1.00	1.00
60	SIM07072014.0060.raw	simsoln.met	0.4 ALB	1.00	1.00
61	SIM07072014.0061.raw	simsoln.met	0.4 ALB	1.00	1.00
62	SIM07072014.0062.raw	simsoln.met	0.4 ALB	1.00	1.00

sim solution samples not included. RLM 7/9/14

sim solution samples not included. RLM 7/9/14

sim solution samples not included. RLM 7/9/14

sim solution samples not included. RLM 7/9/14

14-07-100 3 RLM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	SIM07072014.0063.raw	simsoln.met	0.4 ALB – sample not included. RZM 7/9/14	1.00	1.00
64	SIM07072014.0064.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
65	SIM07072014.0065.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Lot #s:

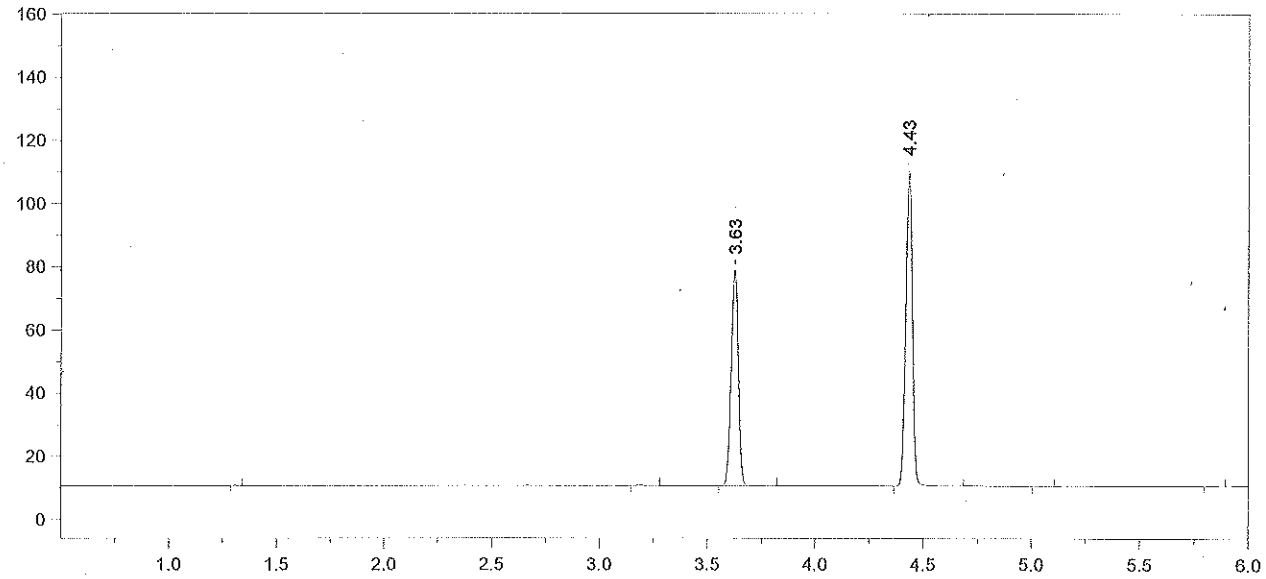
Internal Standard: IS-03202014

Timing Mix: TMX-08122013

AQ QC: Cerilliant FN021111-03

Ethanol Standards: ES-06162014

RZM 7/8/14

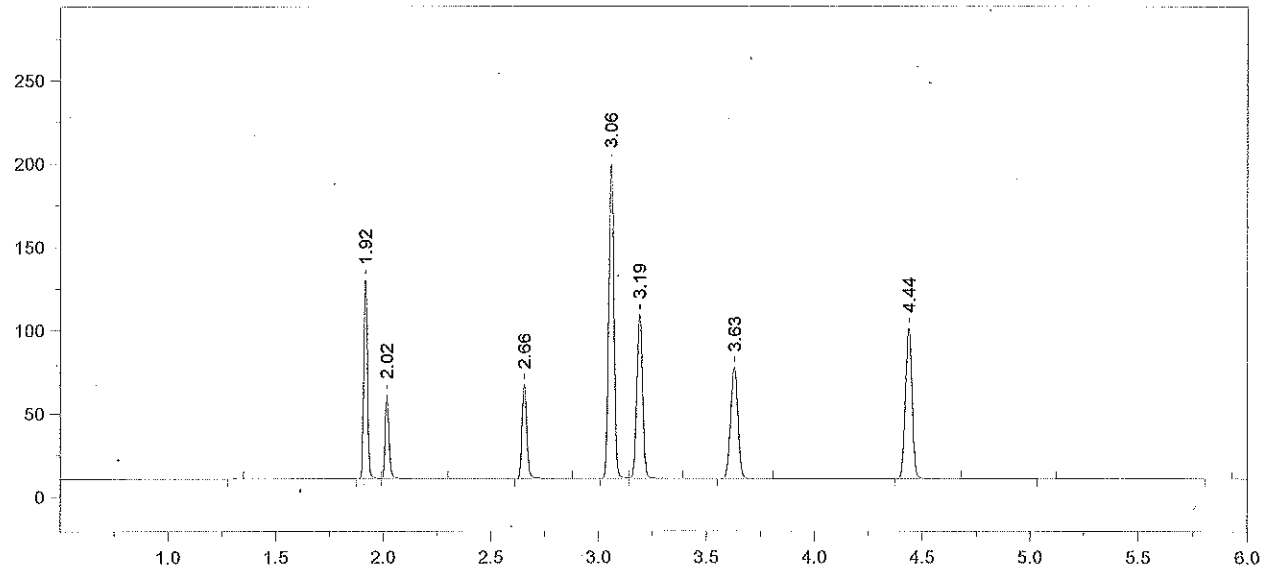


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:21:18 AM
Bound File Name = SIM07072014.0001.RAW
Sample Name = Blank
Date Taken = 7/7/2014 12:02:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	158375	0.9573
4	4.43	n-Propanol	211192	1.0000

14-07-100 5 KZM

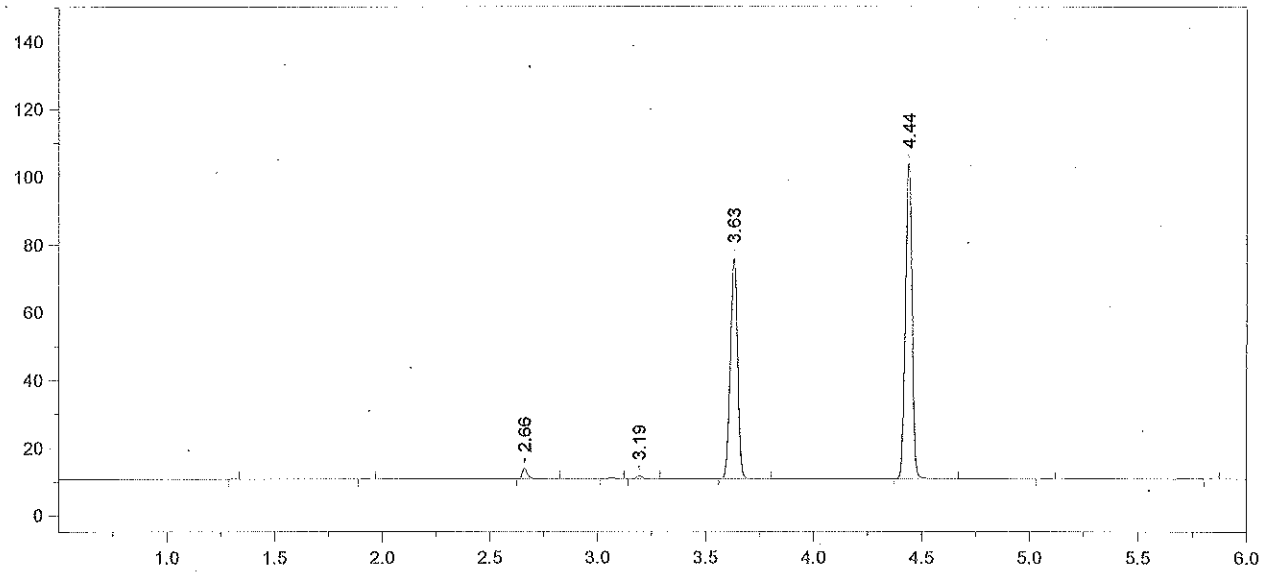


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:21:24 AM
Bound File Name = SIM07072014.0002.RAW
Sample Name = TMX
Date Taken = 7/7/2014 12:20:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	140617	0.0520
3	2.02	Methanol	65028	0.1370
4	2.66	Ethanol	89415	0.0893
5	3.06	Acetone	325691	0.0940
6	3.19	Isopropanol	185534	0.0850
7	3.63	t-Butanol	154608	1.0292
8	4.44	n-Propanol	191767	1.0000

14-07-100 6 Kem

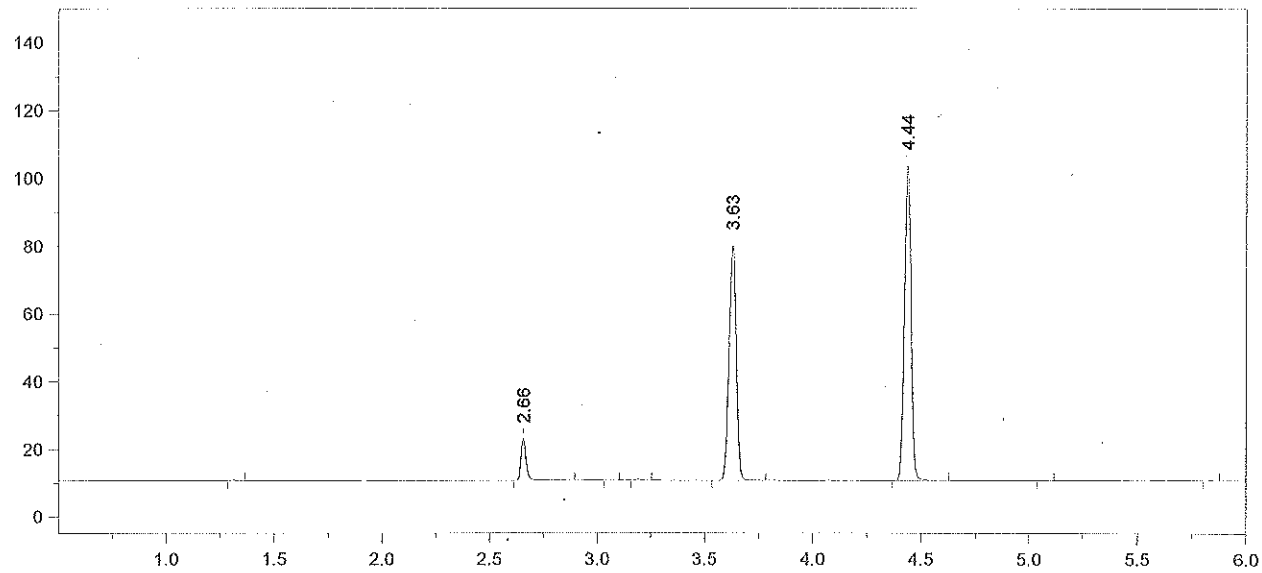


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:21:30 AM
Bound File Name = SIM07072014.0003.RAW
Sample Name = STD A
Date Taken = 7/7/2014 12:33:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05484	0.0053*
5	3.19	Isopropanol	01549	<0.004
6	3.63	t-Butanol	150359	0.9680
7	4.44	n-Propanol	198290	1.0000

14-07-100 7 TZM

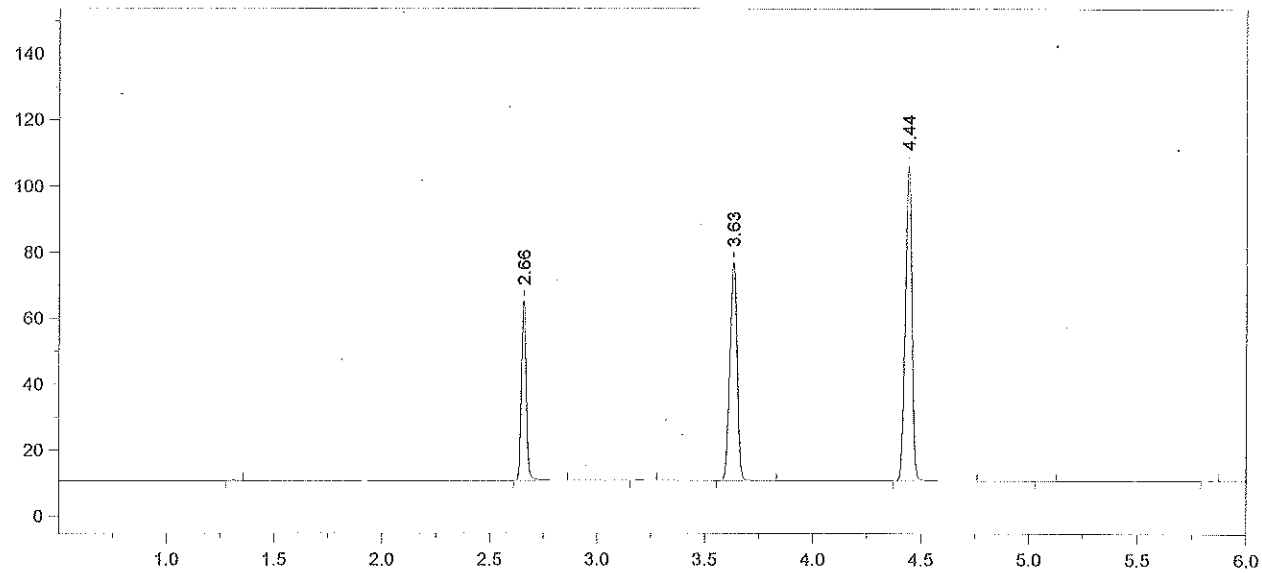


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:21:37 AM
Bound File Name = SIM07072014.0004.RAW
Sample Name = STD B
Date Taken = 7/7/2014 12:51:36 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	19831	0.0193 *
5	3.63	t-Butanol	160297	1.0370
6	4.44	n-Propanol	197331	1.0000

14-07-100 8 RZM

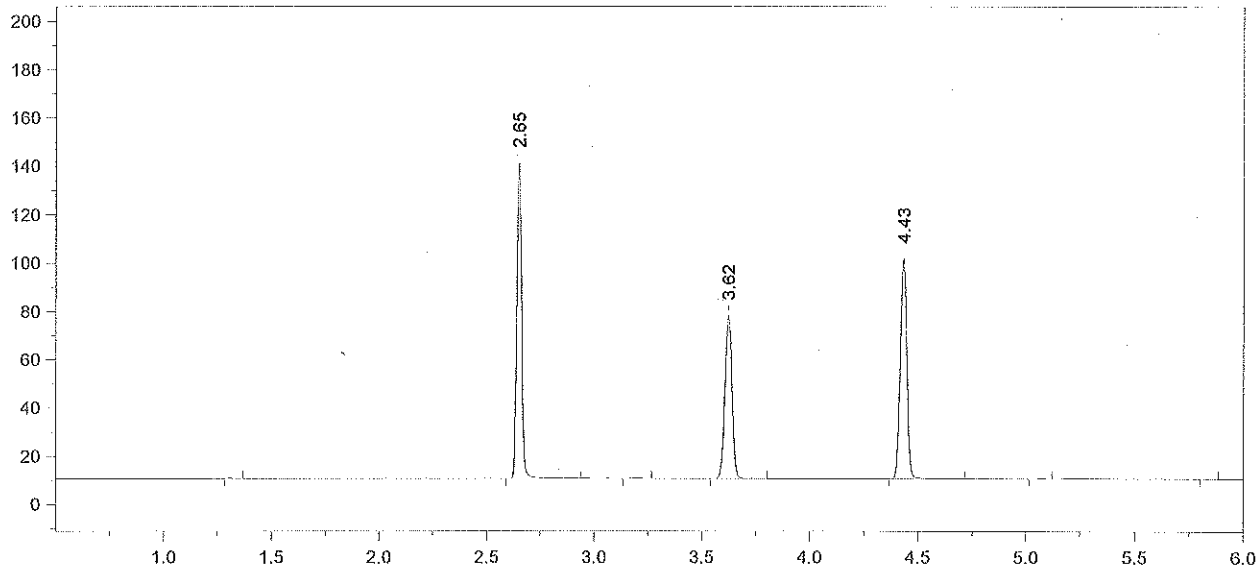


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:21:45 AM
Bound File Name = SIM07072014.0005.RAW
Sample Name = STD C
Date Taken = 7/7/2014 1:05:17 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	85045	0.0807 *
4	3.63	t-Butanol	153480	0.9701
5	4.44	n-Propanol	201973	1.0000

14-07-100 9 RZM

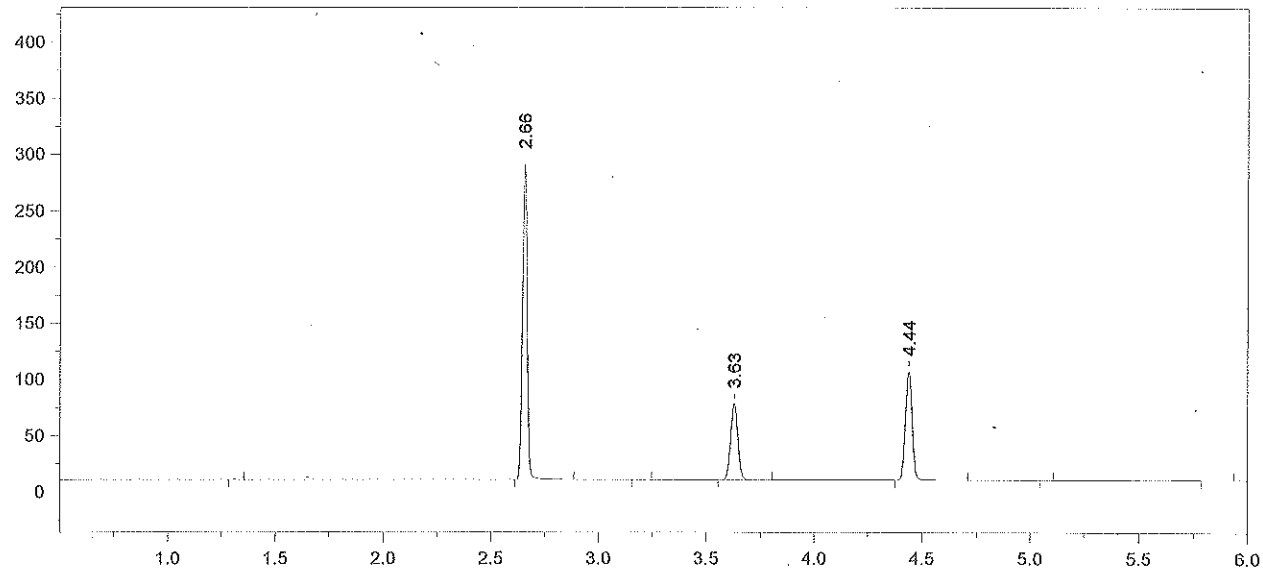


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:21:53 AM
Bound File Name = SIM07072014.0006.RAW
Sample Name = STD D
Date Taken = 7/7/2014 1:23:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	200734	0.1980 *
4	3.62	t-Butanol	156325	1.0275
5	4.43	n-Propanol	194222	1.0000

14-07-100 10 RZM



Format File Name = AlcoholVFL.FMT

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Today's Time = 8:22:01 AM
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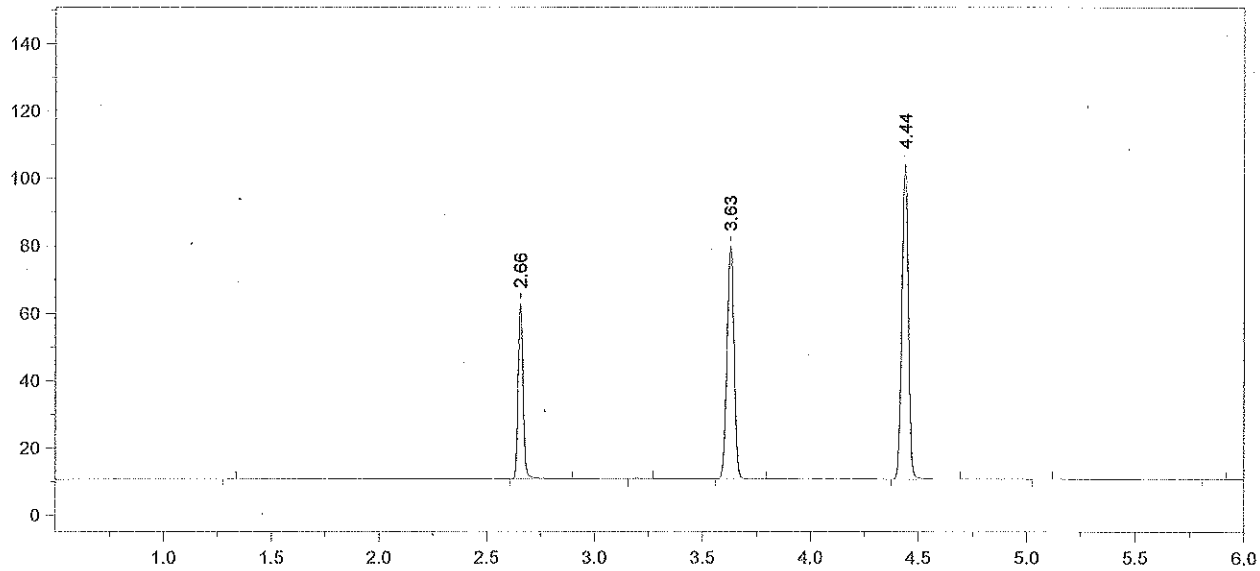
Sample Name = STD E
Date Taken = 7/7/2014 1:36:16 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	431572	0.4019 *
4	3.63	t-Butanol	156085	0.9683
5	4.44	n-Propanol	205778	1.0000

14-07-100 11 RCM

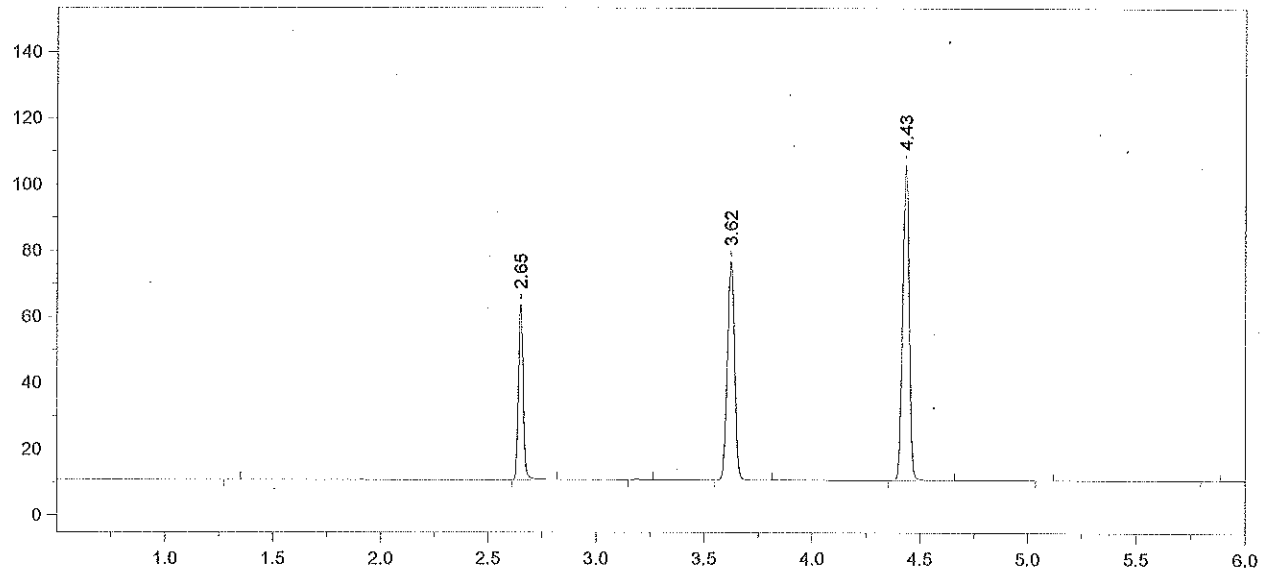


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 1:54:41 PM
Bound File Name = SIM07072014.0008.RAW
Sample Name = AQ QC
Date Taken = 7/7/2014 1:54:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	81181	0.0780
4	3.63	t-Butanol	159558	1.0217
5	4.44	n-Propanol	199359	1.0000

14-07-100 12 RCM



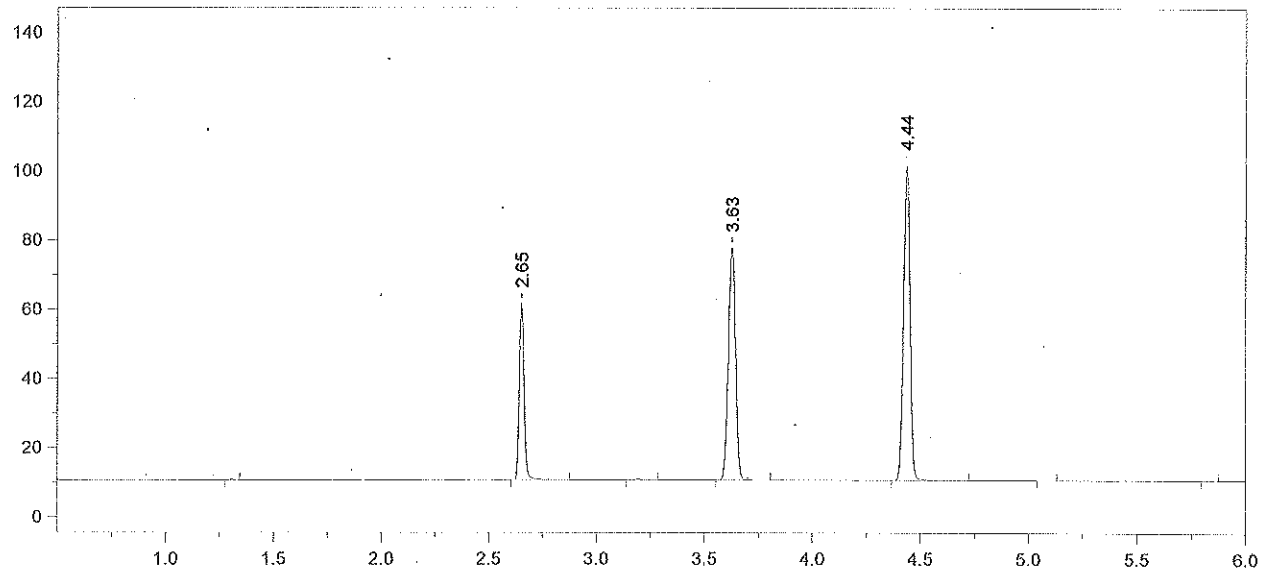
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 2:08:19 PM
Bound File Name = SIM07072014.0009.RAW
Sample Name = AQ QC
Date Taken = 7/7/2014 2:08:11 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82262	0.0779 *
4	3.62	t-Butanol	153218	0.9665
5	4.43	n-Propanol	202366	1.0000

Avg #8 + #9 = 0.078
Target value: 0.080
% recovery = 97 %
RZM 7/8/14

14-07-100 13 RZM

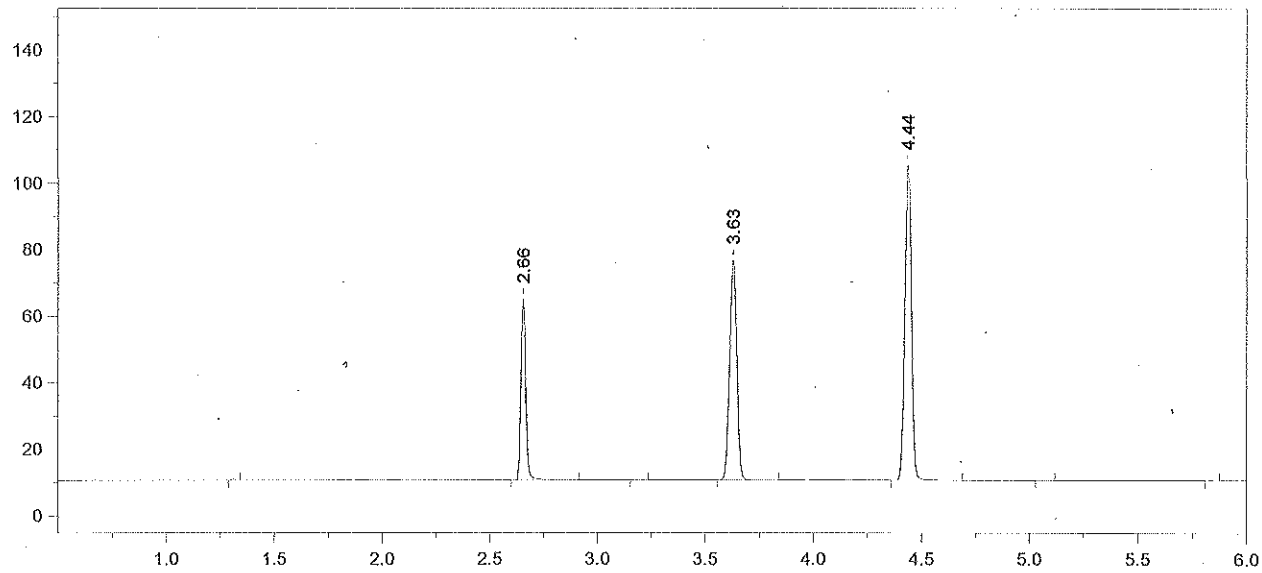


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 2:26:05 PM
Bound File Name = SIM07072014.0010.RAW
Sample Name = CCS
Date Taken = 7/7/2014 2:25:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79654	0.0789 *
4	3.63	t-Butanol	155812	1.0284
5	4.44	n-Propanol	193404	1.0000

14-07-100 14 TZM



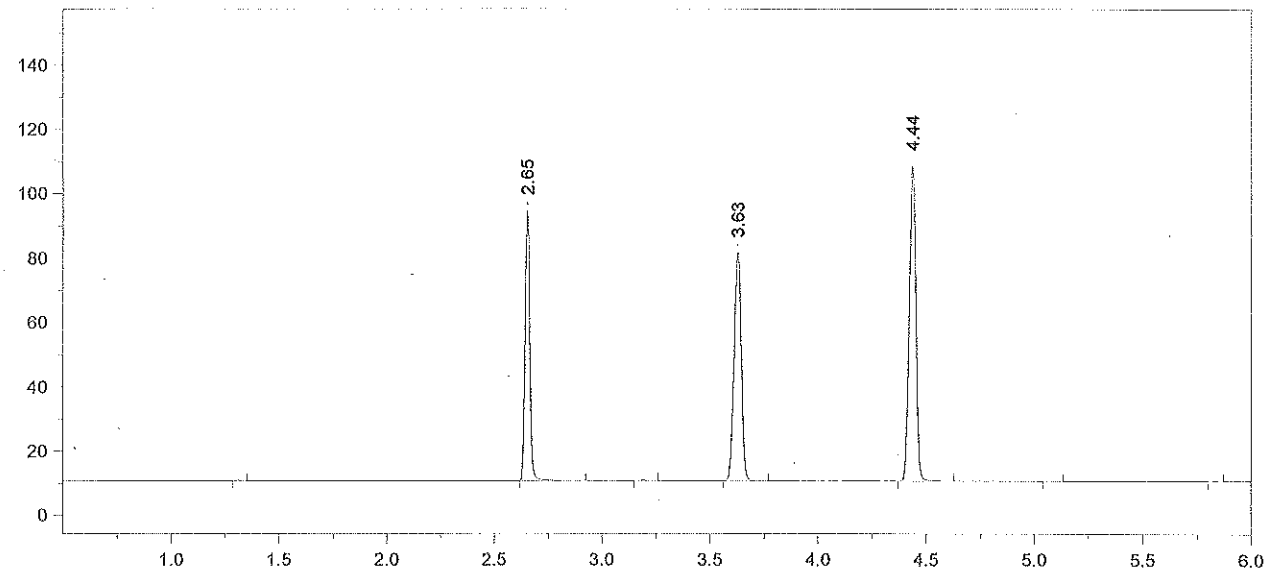
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 2:39:52 PM
Bound File Name = SIM07072014.0011.RAW
Sample Name = CCS
Date Taken = 7/7/2014 2:39:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	85019	0.0807 *
4	3.63	t-Butanol	152799	0.9661
5	4.44	n-Propanol	201909	1.0000

Avg #10 + #11 = 0.080
RZM 7/8/14

14-07-100 15 RZM

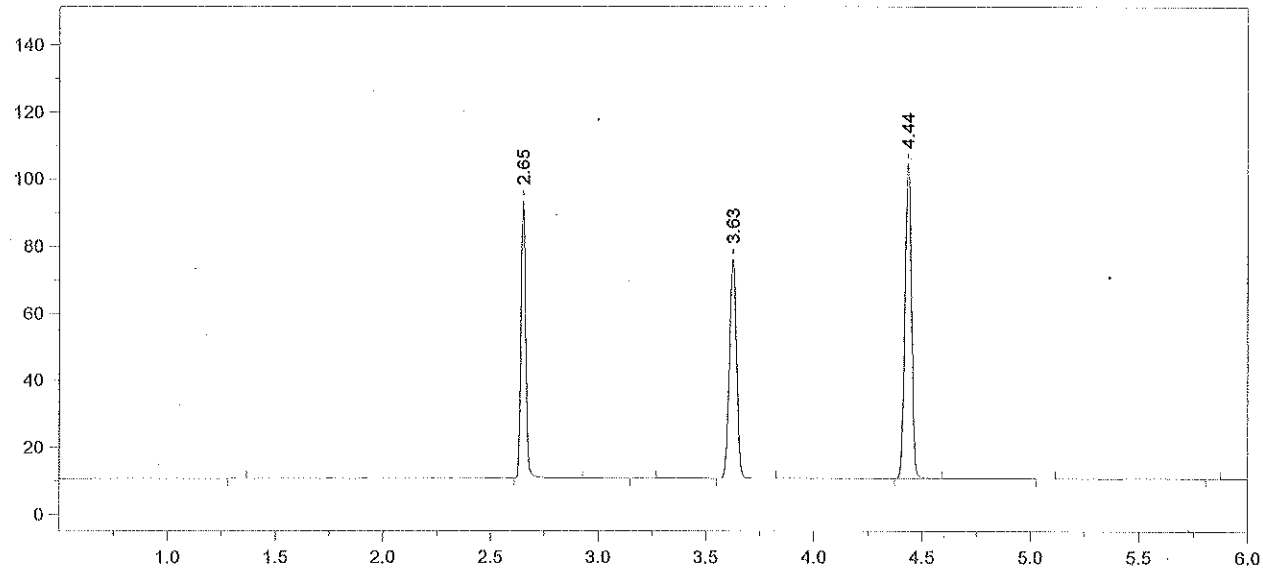


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 2:57:26 PM
Bound File Name = SIM07072014.0012.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 2:57:21 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130547	0.1205	0.0983
4	3.63	t-Butanol	164920	1.0139	0.8276
5	4.44	n-Propanol	207641	1.0000	0.8162

14-07-100 16 RZM

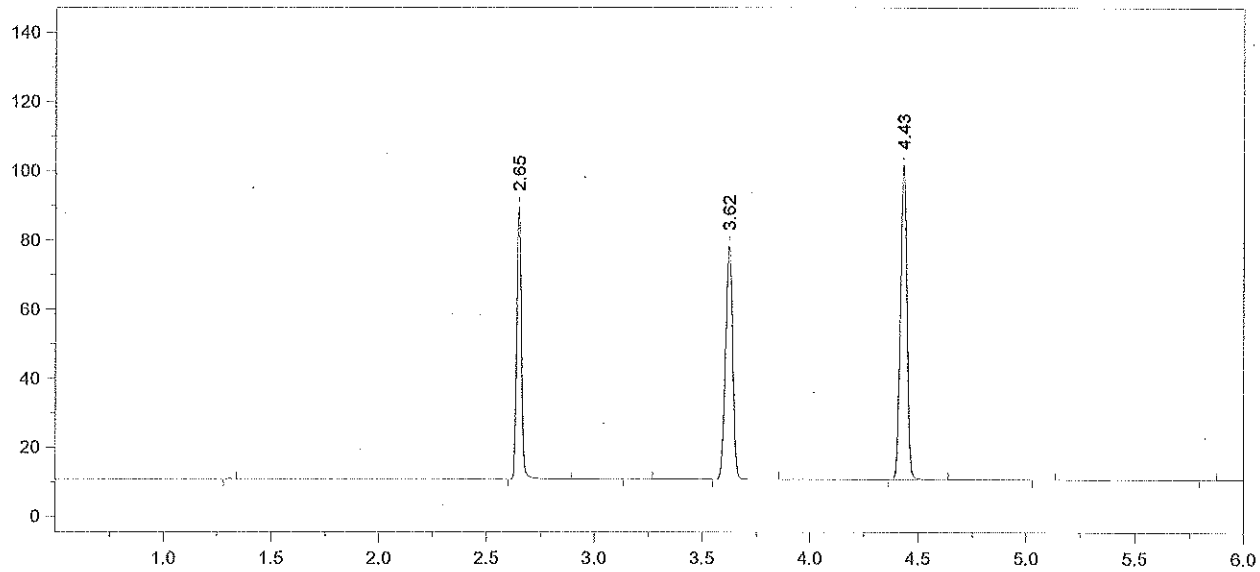


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 3:11:17 PM
Bound File Name = SIM07072014.0013.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 3:11:08 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128728	0.1233	0.1006
4	3.63	t-Butanol	151515	0.9668	0.7891
5	4.44	n-Propanol	200059	1.0000	0.8162

14-07-100 17 RLM

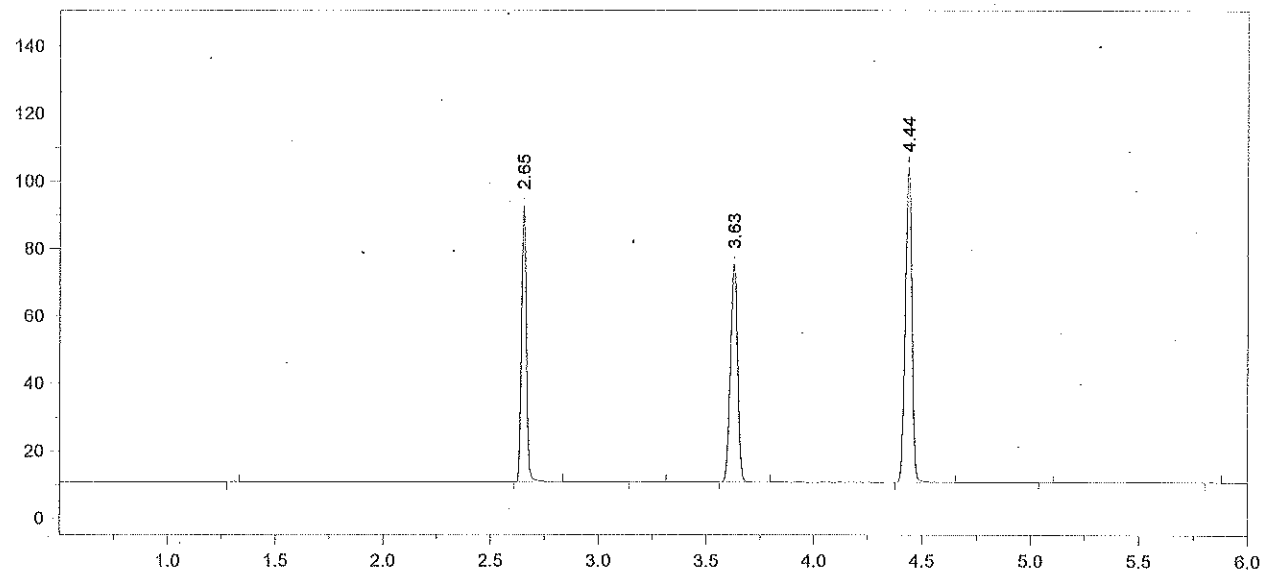


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 3:28:57 PM
Bound File Name = SIM07072014.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 3:28:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122068	0.1206	0.0984
4	3.62	t-Butanol	156333	1.0286	0.8395
5	4.43	n-Propanol	194022	1.0000	0.8162

14-07-100 18 ZZm

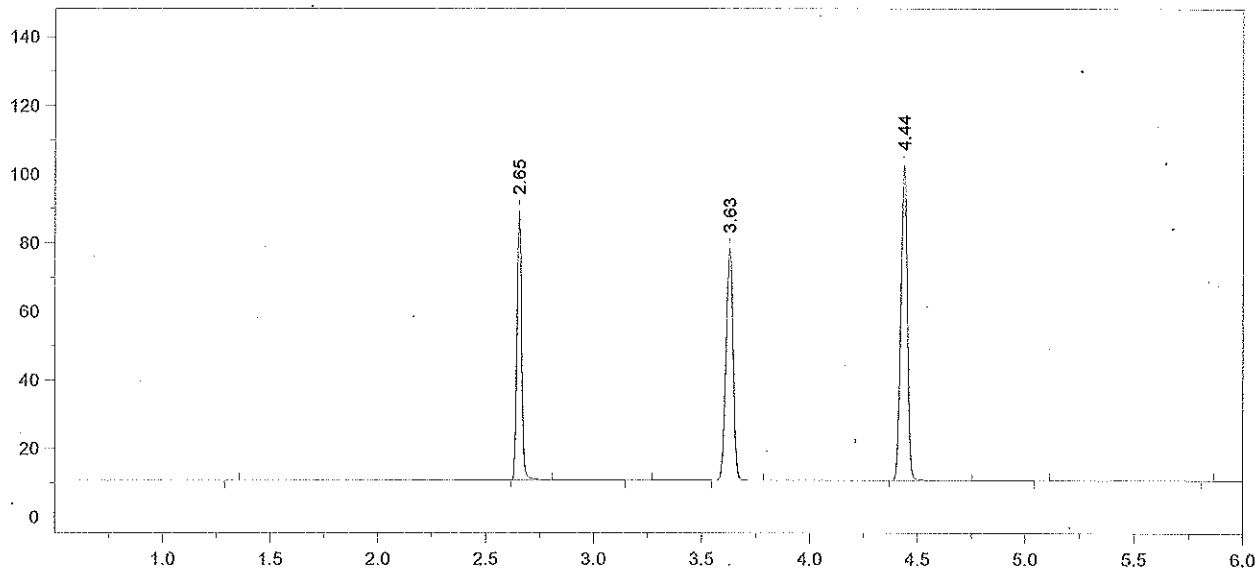


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 3:42:35 PM
Bound File Name = SIM07072014.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 3:42:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126872	0.1225	0.1000
4	3.63	t-Butanol	150168	0.9658	0.7883
5	4.44	n-Propanol	198493	1.0000	0.8162

14-07-100 19 RZM

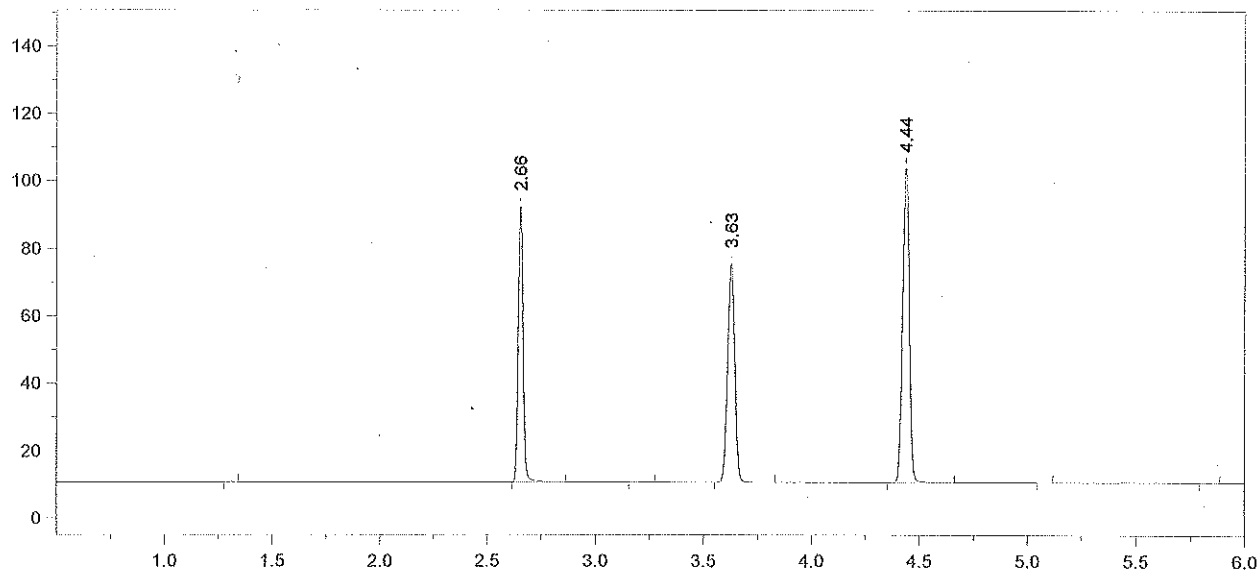


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 4:00:17 PM
Bound File Name = SIM07072014.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 4:00:11 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121136	0.1191	0.0972
4	3.63	t-Butanol	156530	1.0251	0.8367
5	4.44	n-Propanol	194929	1.0000	0.8162

14-07-100 20 RZM

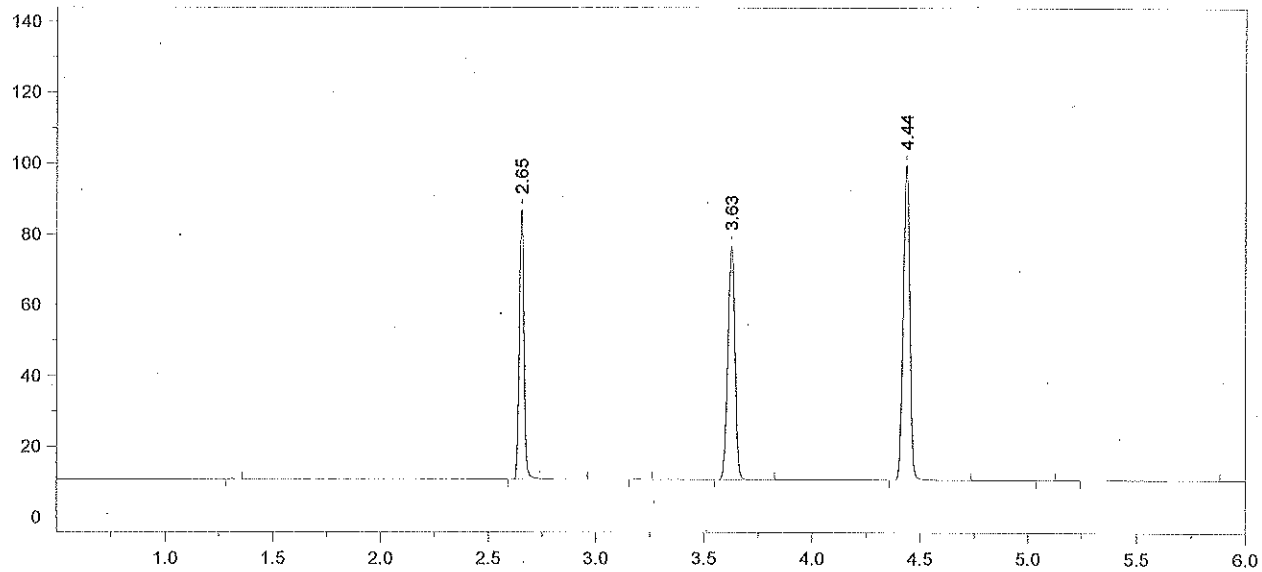


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 4:14:07 PM
Bound File Name = SIM07072014.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 4:13:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	127514	0.1229	0.1003
4	3.63	t-Butanol	150054	0.9636	0.7865
5	4.44	n-Propanol	198781	1.0000	0.8162

14-07-100 21 RZM

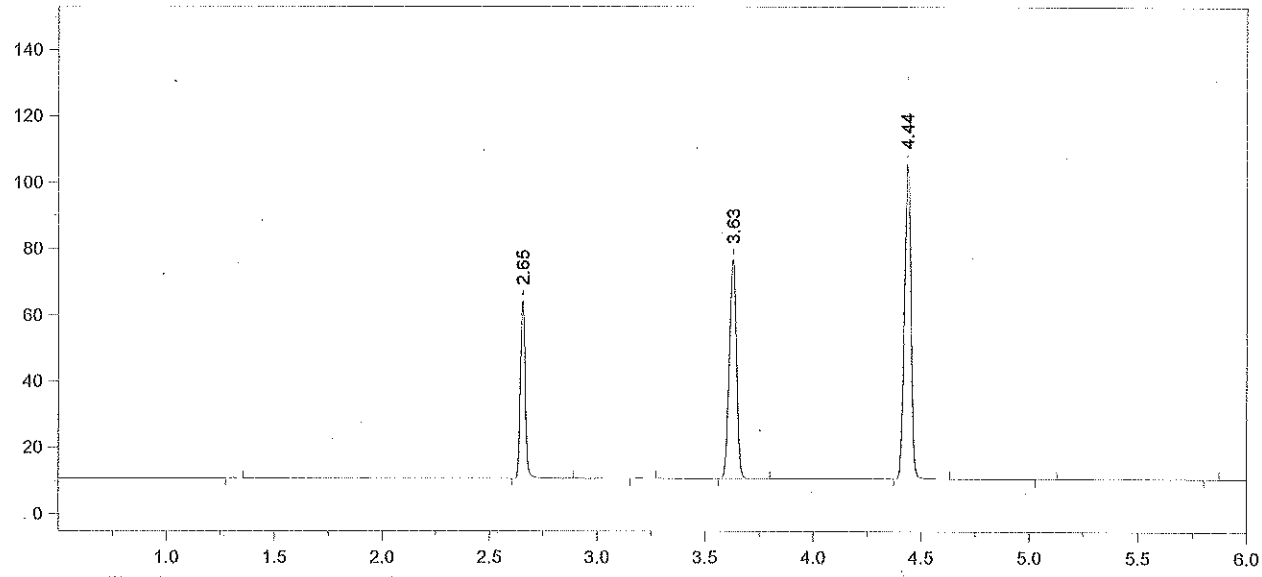


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 4:31:42 PM
Bound File Name = SIM07072014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 7/7/2014 4:31:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	118246	0.1193	0.0974
4	3.63	t-Butanol	152838	1.0277	0.8388
5	4.44	n-Propanol	189848	1.0000	0.8162

14-07-100 22 RLM

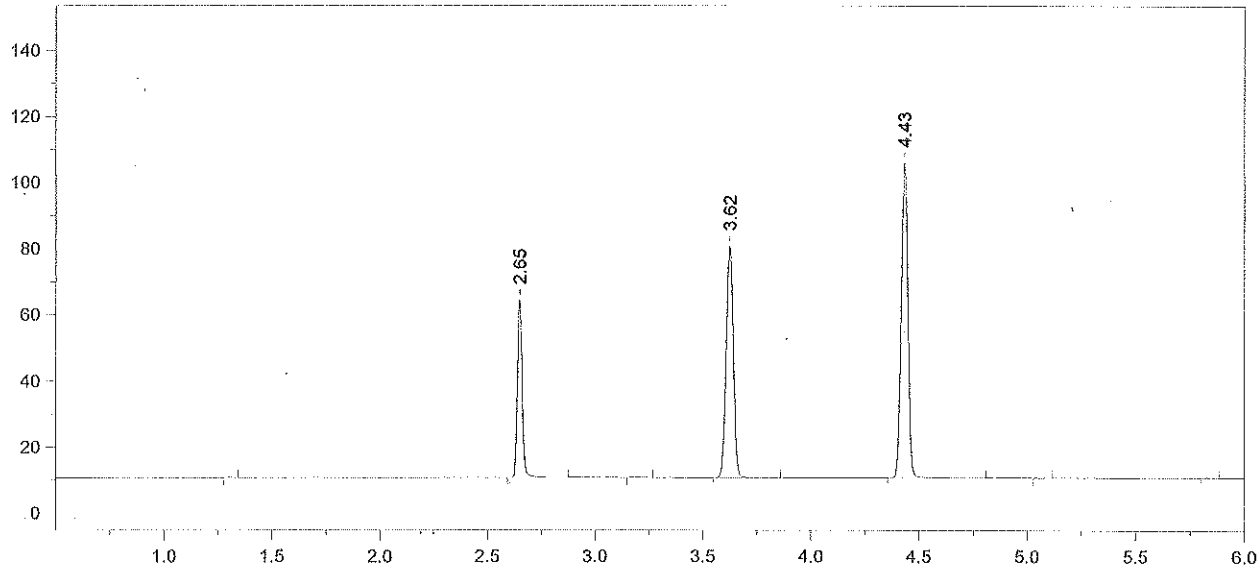


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 4:45:26 PM
Bound File Name = SIM07072014.0019.RAW
Sample Name = CCS
Date Taken = 7/7/2014 4:45:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85086	0.0809 *
4	3.63	t-Butanol	152991	0.9687
5	4.44	n-Propanol	201613	1.0000

14-07-100 23 RZM



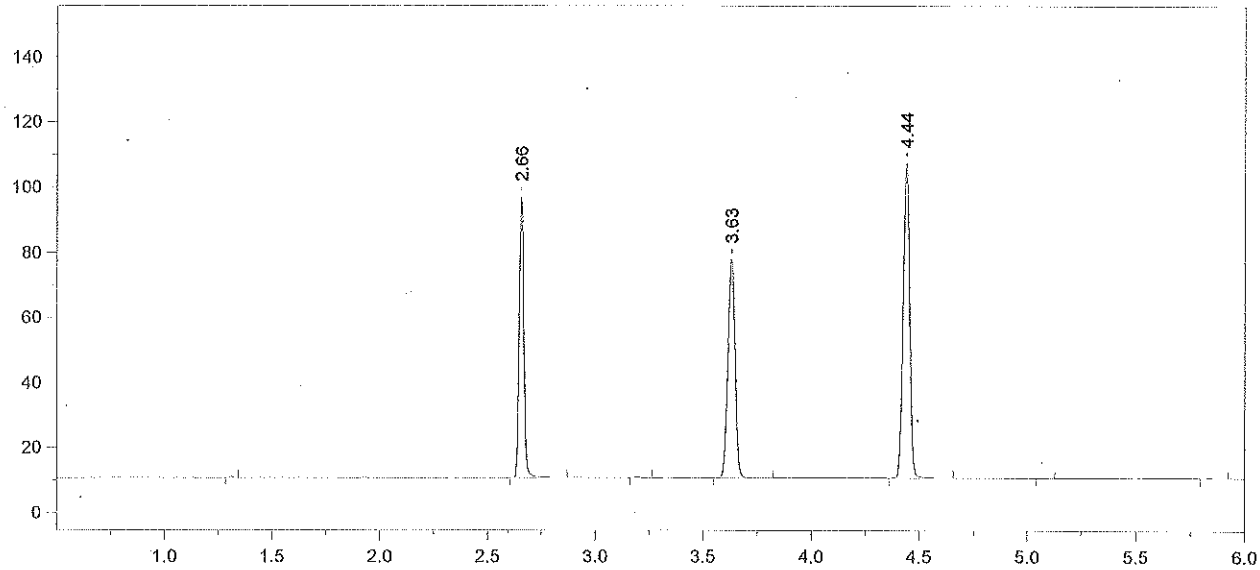
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 5:03:12 PM
Bound File Name = SIM07072014.0020.RAW
Sample Name = CCS
Date Taken = 7/7/2014 5:03:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83621	0.0788 *
4	3.62	t-Butanol	161951	1.0173
5	4.43	n-Propanol	203224	1.0000

Avg #19 + #20 = 0.080
RZM 7/8/14

14-07-100 24 RZM

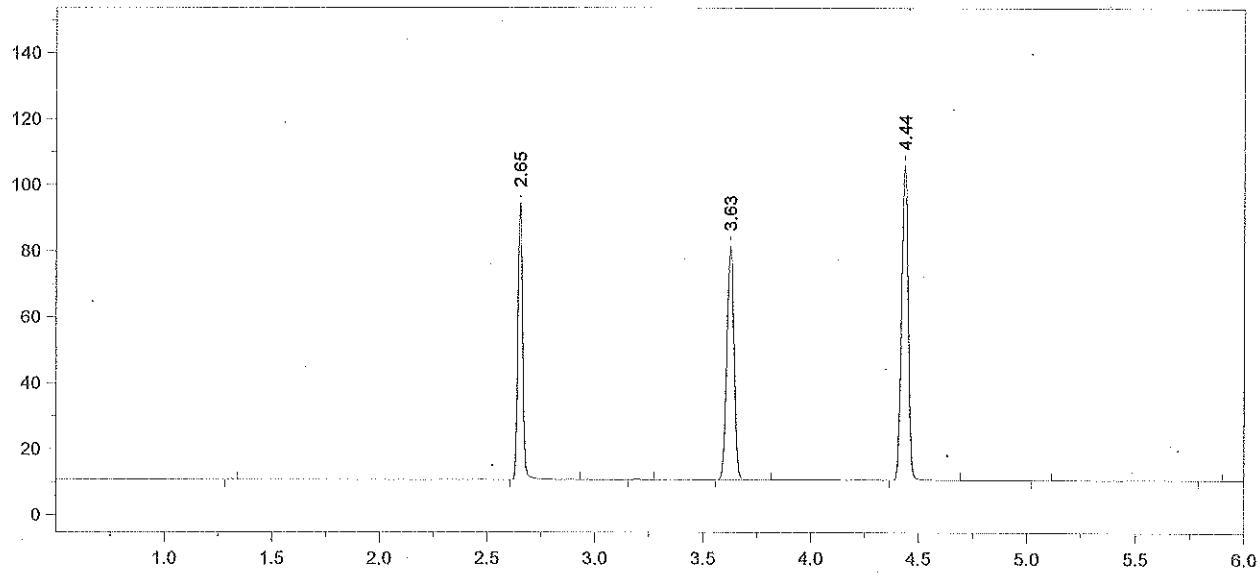


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 5:16:56 PM
Bound File Name = SIM07072014.0021.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 5:16:50 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	133352	0.1246	0.1017
4	3.63	t-Butanol	155904	0.9706	0.7922
5	4.44	n-Propanol	205054	1.0000	0.8162

14-07-100 25 RLM

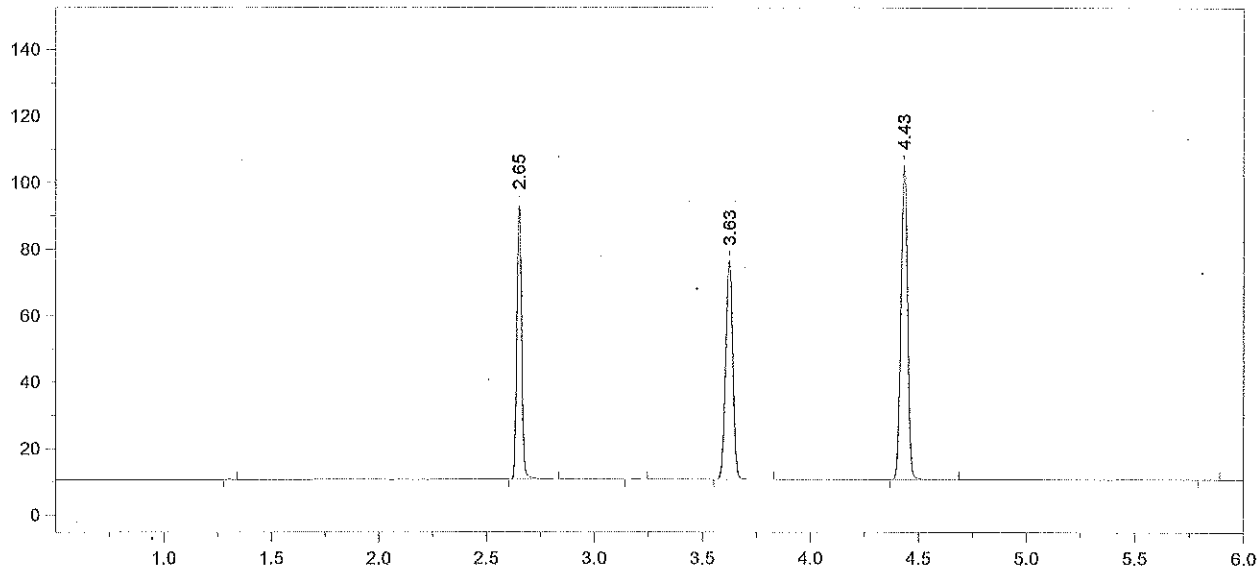


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 5:34:34 PM
Bound File Name = SIM07072014.0022.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 5:34:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129987	0.1225	0.0999
4	3.63	t-Butanol	163620	1.0269	0.8381
5	4.44	n-Propanol	203401	1.0000	0.8162

14-07-100 26 RCM

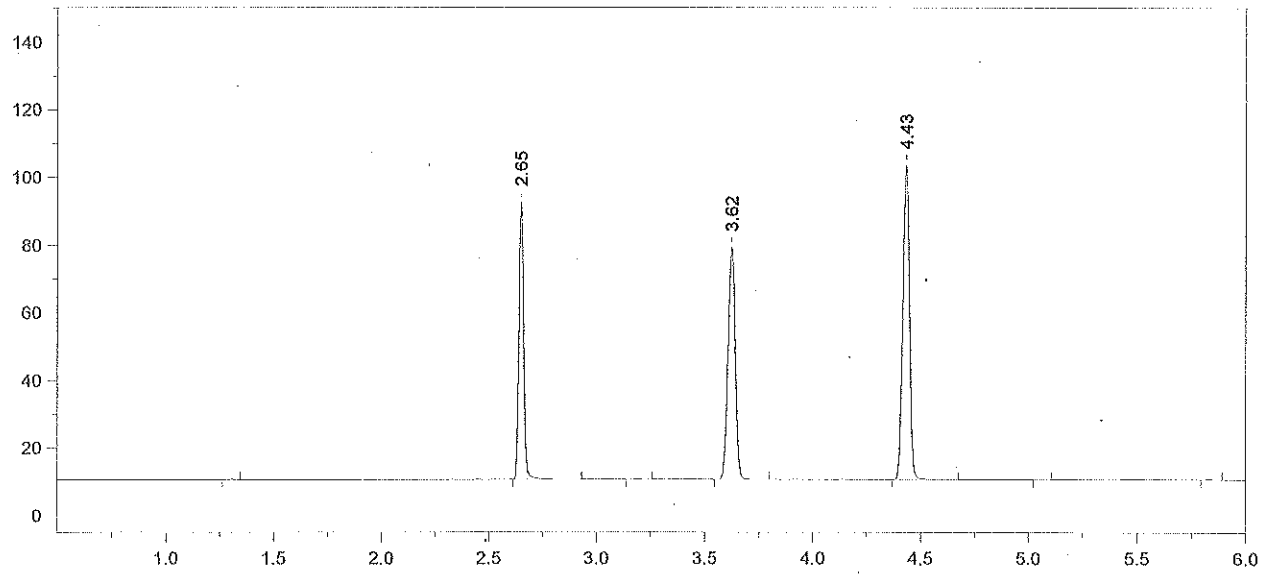


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 5:47:56 PM
Bound File Name = SIM07072014.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 5:47:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127758	0.1220	0.0996
4	3.63	t-Butanol	152857	0.9725	0.7937
5	4.43	n-Propanol	200652	1.0000	0.8162

14-07-100 27 RLA

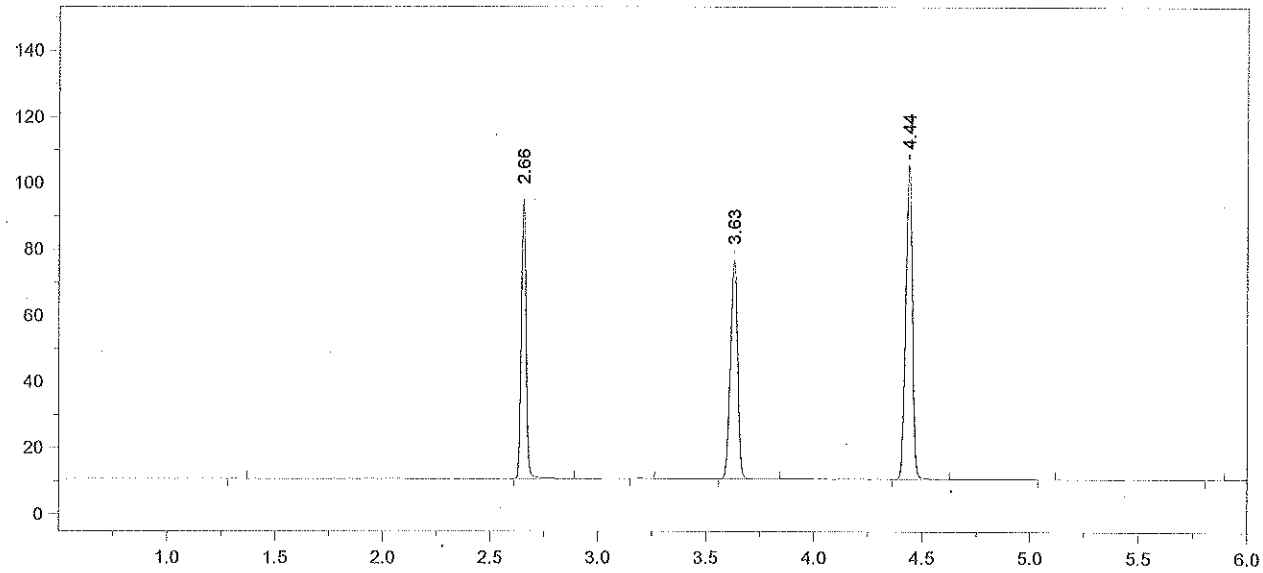


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 6:06:04 PM
Bound File Name = SIM07072014.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 6:05:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127019	0.1230	0.1004
4	3.62	t-Butanol	158897	1.0254	0.8369
5	4.43	n-Propanol	197822	1.0000	0.8162

14-07-100 28 RZM

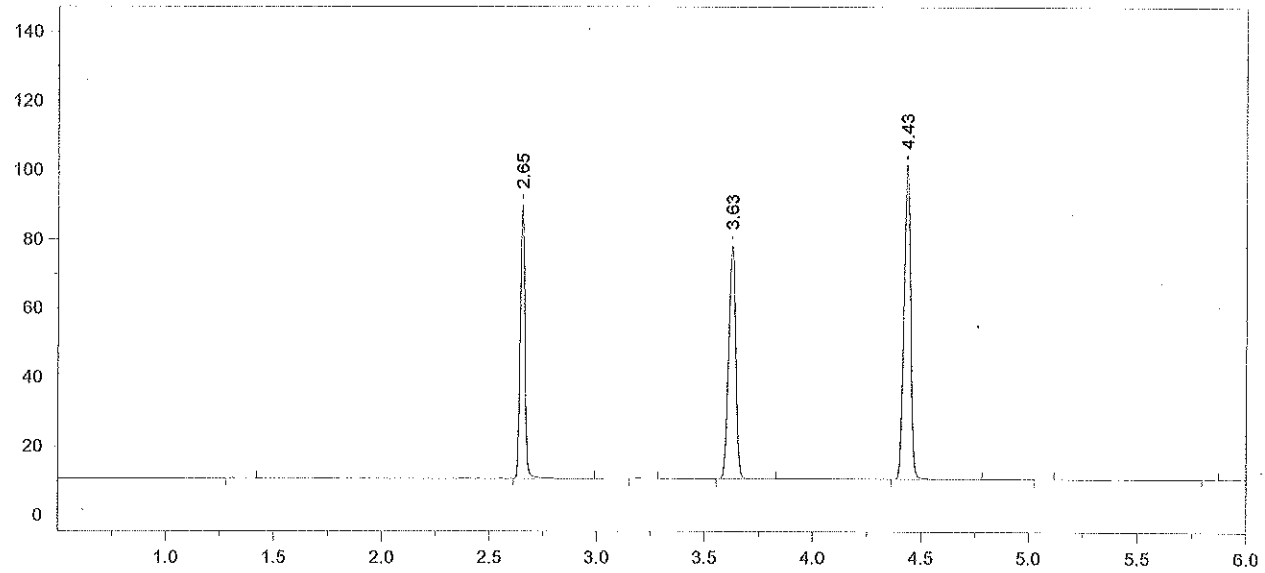


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 6:19:34 PM
Bound File Name = SIM07072014.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 6:19:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	132158	0.1255	0.1025
4	3.63	t-Butanol	153283	0.9700	0.7917
5	4.44	n-Propanol	201728	1.0000	0.8162

14-07-100 29 Rem

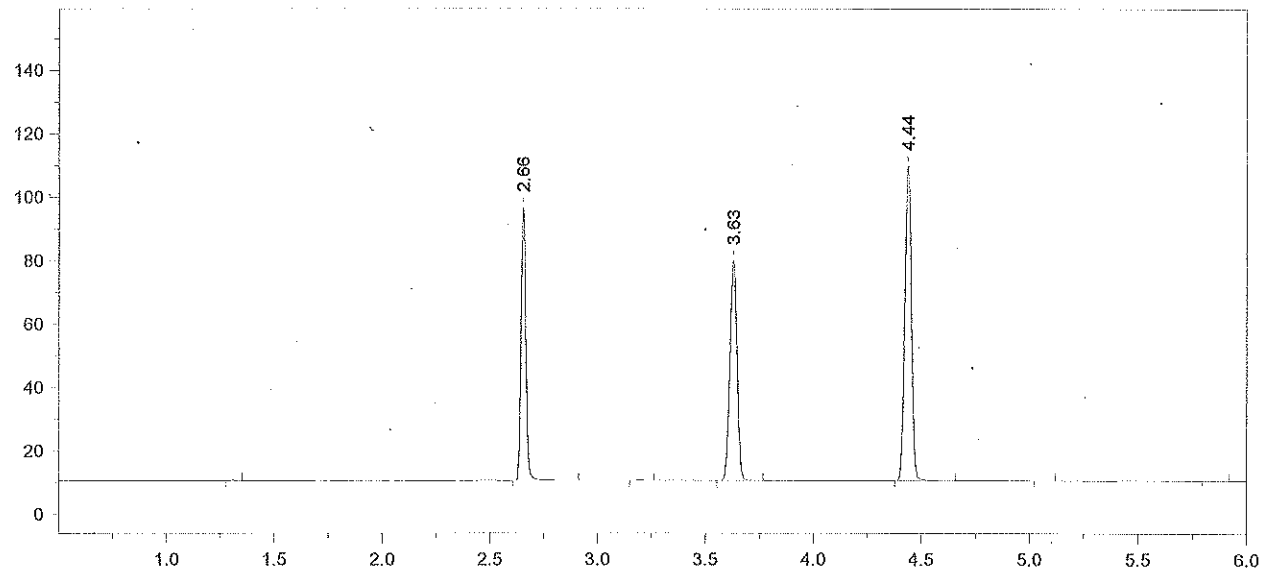


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 6:37:26 PM
Bound File Name = SIM07072014.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 6:37:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123325	0.1219	0.0995
4	3.63	t-Butanol	156337	1.0297	0.8405
5	4.43	n-Propanol	193809	1.0000	0.8162

14-07-100 30 Ken

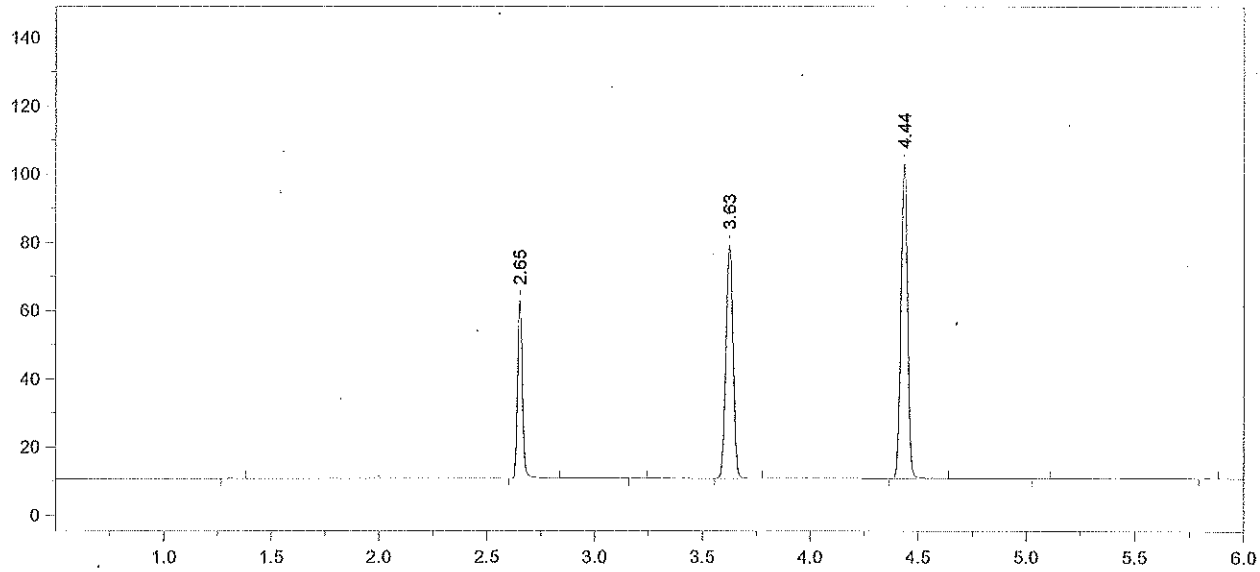


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/7/2014
Today's Time = 6:51:12 PM
Bound File Name = SIM07072014.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 7/7/2014 6:51:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	133563	0.1213	0.0990
4	3.63	t-Butanol	160353	0.9699	0.7916
5	4.44	n-Propanol	211058	1.0000	0.8162

14-07-100 31 RZM

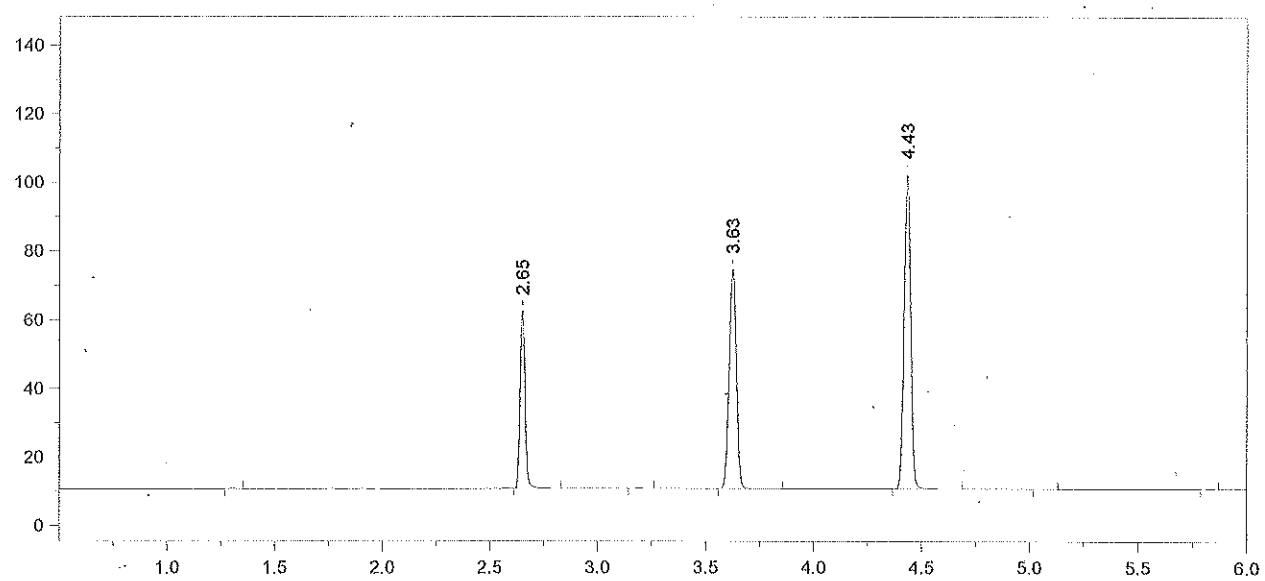


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 7:08:54 PM
Bound File Name = SIM07072014.0028.RAW
Sample Name = CCS
Date Taken = 7/7/2014 7:08:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80782	0.0788 *
4	3.63	t-Butanol	158460	1.0303
5	4.44	n-Propanol	196341	1.0000

14-07-100 32 Rem



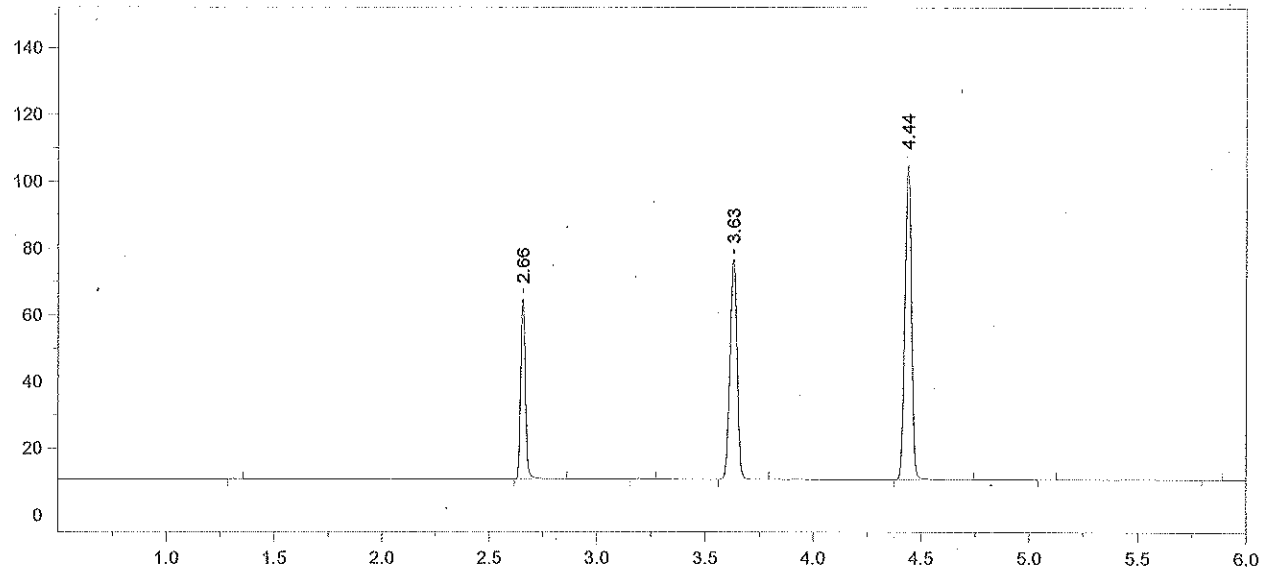
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 7:22:29 PM
Bound File Name = SIM07072014.0029.RAW
Sample Name = CCS
Date Taken = 7/7/2014 7:22:24 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81628	0.0801 *
4	3.63	t-Butanol	148365	0.9701
5	4.43	n-Propanol	195236	1.0000

Avg #28 + #29 = 0.079
RLM 7/8/14

14-07-100 33 RLM

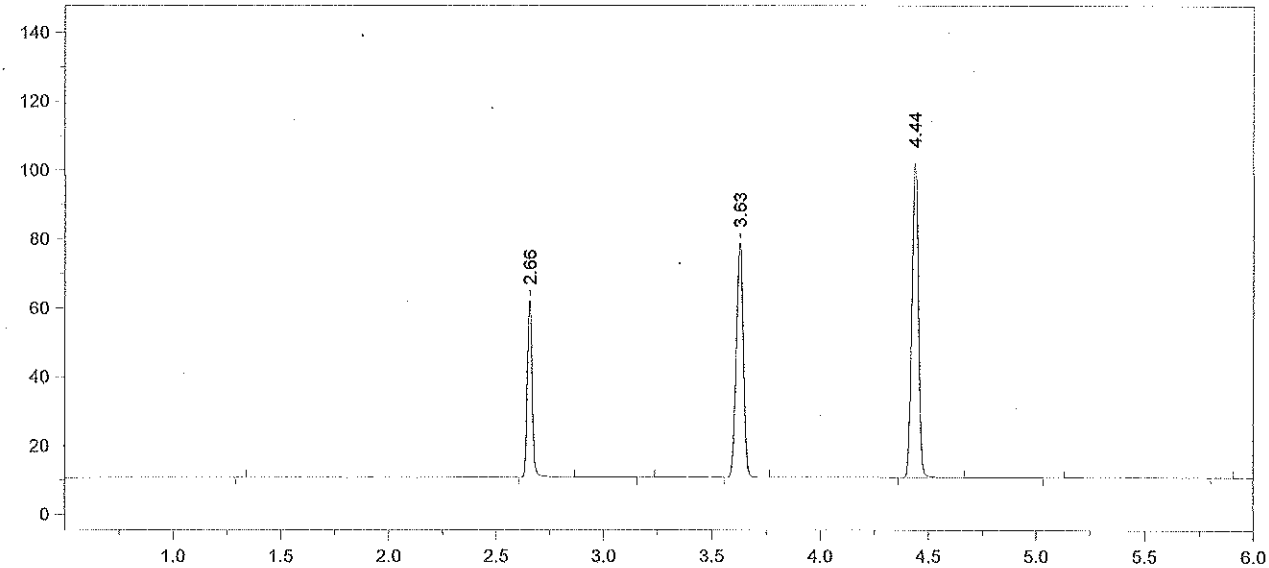


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 9:25:39 PM
Bound File Name = SIM07072014.0037.RAW
Sample Name = CCS
Date Taken = 7/7/2014 9:25:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	84015	0.0803 ✗
4	3.63	t-Butanol	152766	0.9721
5	4.44	n-Propanol	200605	1.0000

14-07-100 34 RZM



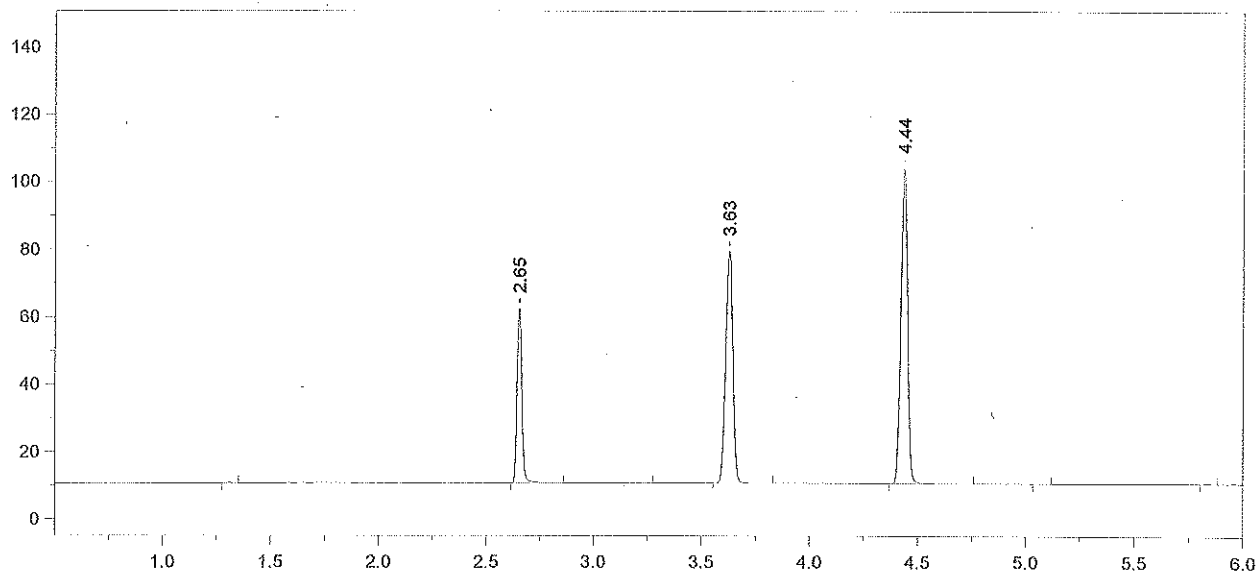
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 9:41:18 PM
Bound File Name = SIM07072014.0038.RAW
Sample Name = CCS
Date Taken = 7/7/2014 9:41:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	80241	0.0787 *
4	3.63	t-Butanol	157152	1.0267
5	4.44	n-Propanol	195396	1.0000

Avg # 37 + # 38 = 0.079
RZM 7/8/14

14-07-100 35 RZM

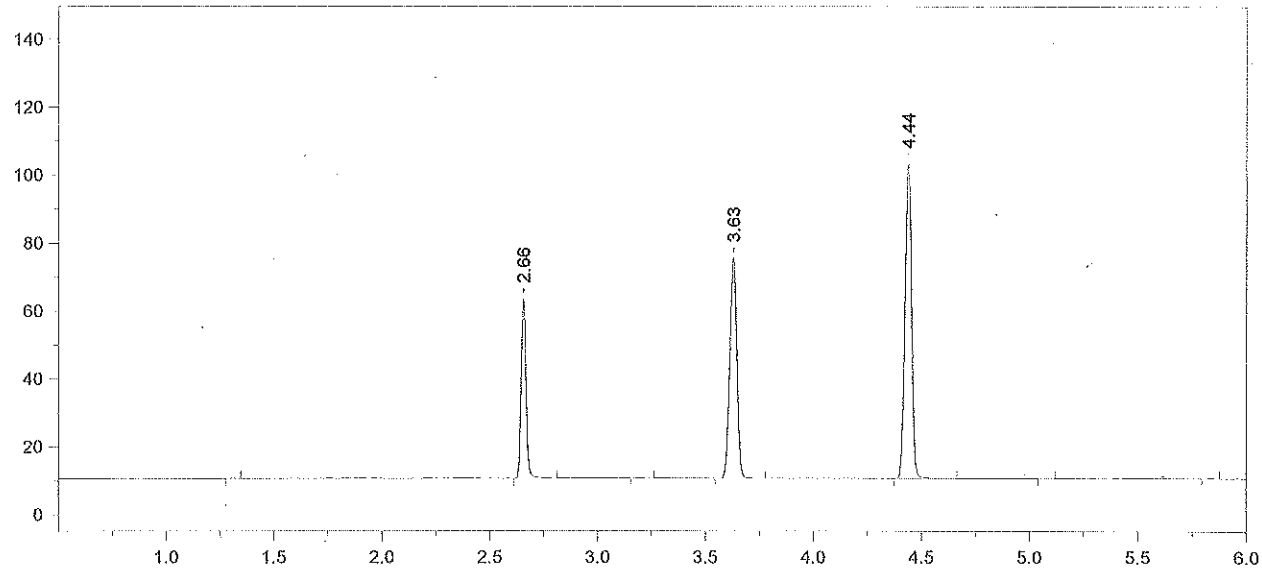


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2014
Today's Time = 11:47:11 PM
Bound File Name = SIM07072014.0046.RAW
Sample Name = CCS
Date Taken = 7/7/2014 11:47:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81097	0.0785 ✗
4	3.63	t-Butanol	160151	1.0325
5	4.44	n-Propanol	197998	1.0000

14-07-100 36 RZM



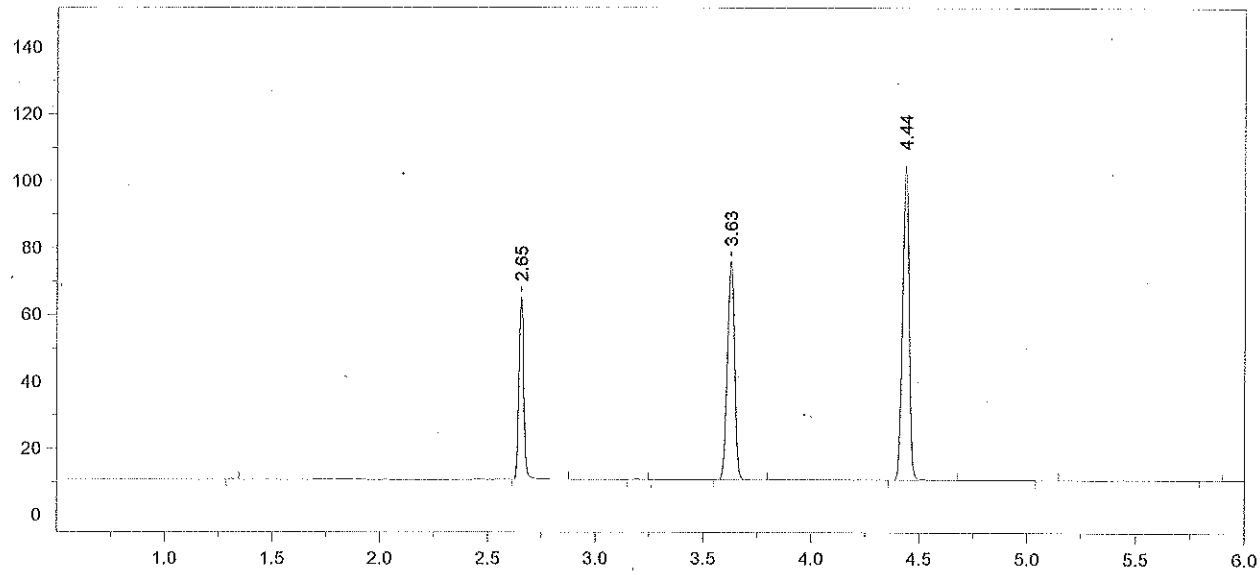
Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 12:00:53 AM
Bound File Name = SIM07072014.0047.RAW
Sample Name = CCS
Date Taken = 7/8/2014 12:00:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82150	0.0800 *
4	3.63	t-Butanol	149970	0.9734
5	4.44	n-Propanol	196668	1.0000

Avg #46 + #47 = 0.079
RZM 7/8/14

14-07-100 37 RZM

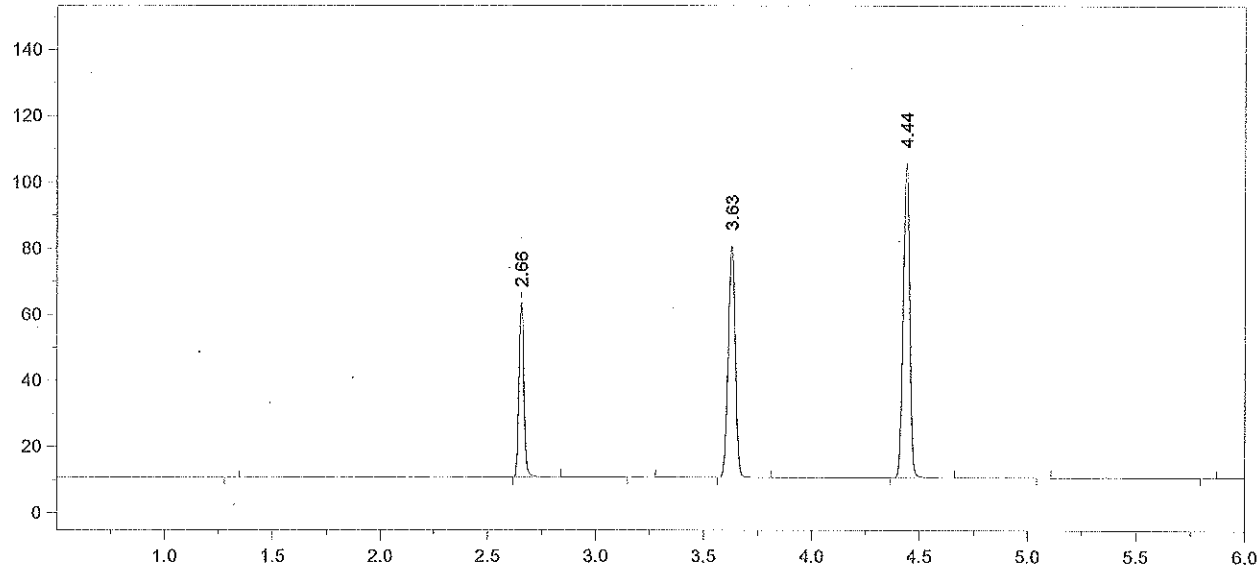


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 2:05:20 AM
Bound File Name = SIM07072014.0055.RAW
Sample Name = CCS
Date Taken = 7/8/2014 2:05:15 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85450	0.0823 *
4	3.63	t-Butanol	151634	0.9725
5	4.44	n-Propanol	199047	1.0000

14-07-100 38 RZM



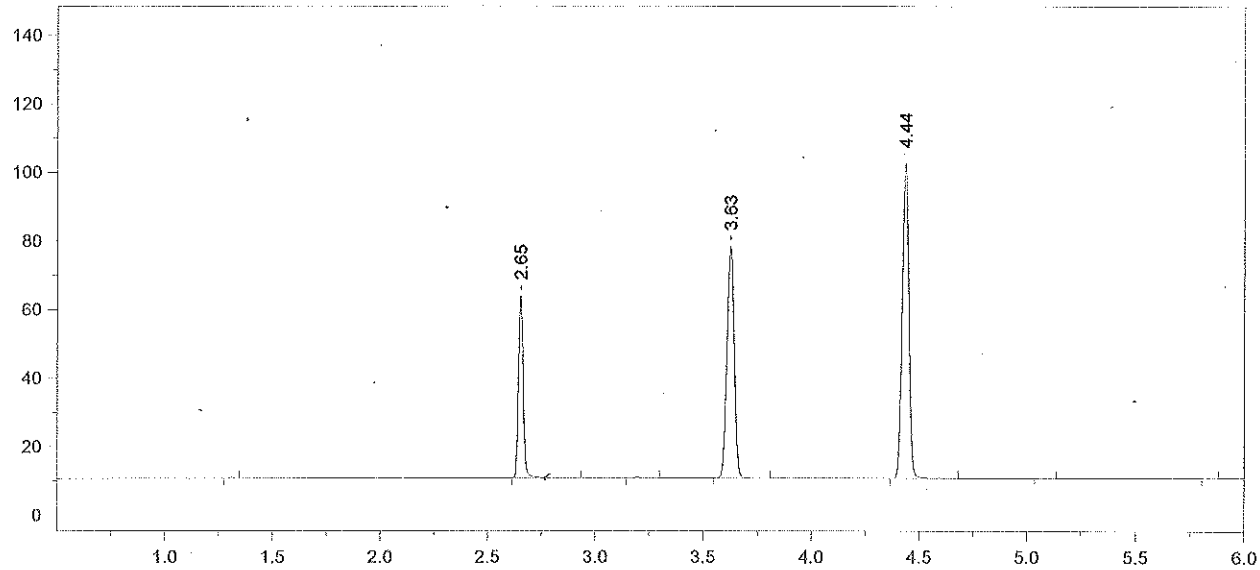
Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 2:19:52 AM
Bound File Name = SIM07072014.0056.RAW
Sample Name = CCS
Date Taken = 7/8/2014 2:19:46 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	83024	0.0785 *
4	3.63	t-Butanol	162439	1.0231
5	4.44	n-Propanol	202679	1.0000

Avg # 55 + # 56 = 0.080
RZM 7/8/14

14-07-100 39 RZM

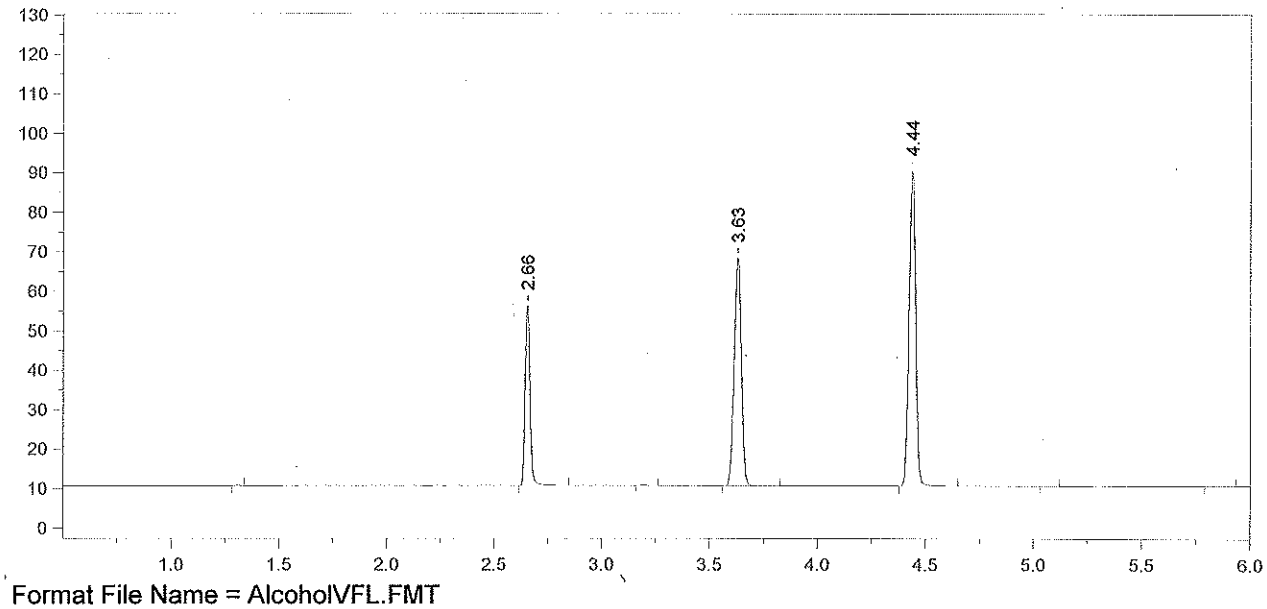


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 4:26:07 AM
Bound File Name = SIM07072014.0064.RAW
Sample Name = CCS
Date Taken = 7/8/2014 4:26:01 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82901	0.0812 *
4	3.63	t-Butanol	156638	1.0227
5	4.44	n-Propanol	195525	1.0000

14-07-100 40 RM



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 4:39:53 AM
Bound File Name = SIM07072014.0065.RAW
Sample Name = CCS
Date Taken = 7/8/2014 4:39:44 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07072014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	71391	0.0805 *
4	3.63	t-Butanol	133351	1.0012
5	4.44	n-Propanol	170031	1.0000

Avg #64 + #65 = 0.081
RZM 7/8/14

14-07-100 41 RZM

File Name: C:\Methods\SIM07082014.CAL
Version: 7

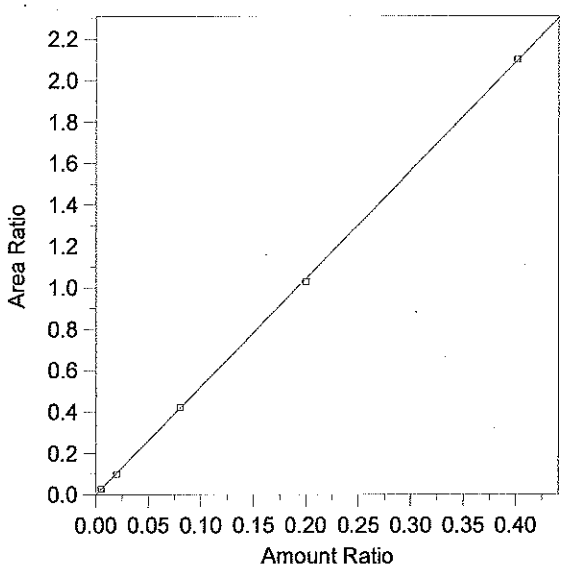
Creator:
Description:
Reason for change:

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 = 5.219236 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999113
Average error:	2.894%
Average CF:	5.27753
RSD:	4.671%

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	0.0049	5762.442	1176009	9.145	0.0049	2.791311E-02	C:\Alcohol Data\SIM07082014\SIM07082014.0003.BND	7/8/2014 11:04:16 AM
3	0.0197	19819.48	1006065	-3.097	0.0197	9.963418E-02	C:\Alcohol Data\SIM07082014\SIM07082014.0004.BND	7/8/2014 11:22:01 AM
4	0.0801	83102.71	1037487	0.564	0.0801	0.4204182	C:\Alcohol Data\SIM07082014\SIM07082014.0005.BND	7/8/2014 11:35:13 AM
5	0.1998	203236	1017197	-1.345	0.1998	1.028783	C:\Alcohol Data\SIM07082014\SIM07082014.0006.BND	7/8/2014 11:53:21 AM
6	0.4011	414131.8	1032490	0.317	0.4011	2.100077	C:\Alcohol Data\SIM07082014\SIM07082014.0007.BND	7/8/2014 12:06:45 PM

14-07-100 42 RLM

File Name = C:\Alcohol Data\SIM07082014\SIM07082014.SEQ
Version = 1
File Date = 7/8/2014 9:56:42 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM07082014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM07082014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM07082014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM07082014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM07082014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM07082014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM07082014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM07082014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM07082014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM07082014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM07082014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM07082014.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	SIM07082014.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	SIM07082014.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	SIM07082014.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	SIM07082014.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	SIM07082014.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	SIM07082014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	SIM07082014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM07082014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM07082014.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	SIM07082014.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	SIM07082014.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	SIM07082014.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	SIM07082014.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	SIM07082014.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	SIM07082014.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	SIM07082014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM07082014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	SIM07082014.0030.raw	simsoln.met	0.08 RLM	1.00	1.00
31	SIM07082014.0031.raw	simsoln.met	0.08 RLM	1.00	1.00
32	SIM07082014.0032.raw	simsoln.met	0.08 RLM	1.00	1.00
33	SIM07082014.0033.raw	simsoln.met	0.08 RLM	1.00	1.00
34	SIM07082014.0034.raw	simsoln.met	0.08 RLM	1.00	1.00
35	SIM07082014.0035.raw	simsoln.met	0.08 RLM	1.00	1.00
36	SIM07082014.0036.raw	simsoln.met	0.08 RLM	1.00	1.00
37	SIM07082014.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	SIM07082014.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	SIM07082014.0039.raw	simsoln.met	0.08 ALB	1.00	1.00
40	SIM07082014.0040.raw	simsoln.met	0.08 ALB	1.00	1.00
41	SIM07082014.0041.raw	simsoln.met	0.08 ALB	1.00	1.00
42	SIM07082014.0042.raw	simsoln.met	0.08 ALB	1.00	1.00
43	SIM07082014.0043.raw	simsoln.met	0.08 ALB	1.00	1.00
44	SIM07082014.0044.raw	simsoln.met	0.08 ALB	1.00	1.00
45	SIM07082014.0045.raw	simsoln.met	0.08 ALB	1.00	1.00
46	SIM07082014.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	SIM07082014.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	SIM07082014.0048.raw	simsoln.met	0.4 RLM	1.00	1.00
49	SIM07082014.0049.raw	simsoln.met	0.4 RLM	1.00	1.00
50	SIM07082014.0050.raw	simsoln.met	0.4 RLM	1.00	1.00
51	SIM07082014.0051.raw	simsoln.met	0.4 RLM	1.00	1.00
52	SIM07082014.0052.raw	simsoln.met	0.4 RLM	1.00	1.00
53	SIM07082014.0053.raw	simsoln.met	0.4 RLM	1.00	1.00
54	SIM07082014.0054.raw	simsoln.met	0.4 RLM	1.00	1.00
55	SIM07082014.0055.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
56	SIM07082014.0056.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
57	SIM07082014.0057.raw	simsoln.met	0.4 ALB	1.00	1.00
58	SIM07082014.0058.raw	simsoln.met	0.4 ALB	1.00	1.00
59	SIM07082014.0059.raw	simsoln.met	0.4 ALB	1.00	1.00
60	SIM07082014.0060.raw	simsoln.met	0.4 ALB	1.00	1.00
61	SIM07082014.0061.raw	simsoln.met	0.4 ALB	1.00	1.00
62	SIM07082014.0062.raw	simsoln.met	0.4 ALB	1.00	1.00

other concentrations of Sim Soln not included 7/9/14 [illegible]

14-07-100 43 [illegible]

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	SIM07082014.0063.raw	simsoln.met	0.4 ALB	1.00	1.00
64	SIM07082014.0064.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
65	SIM07082014.0065.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

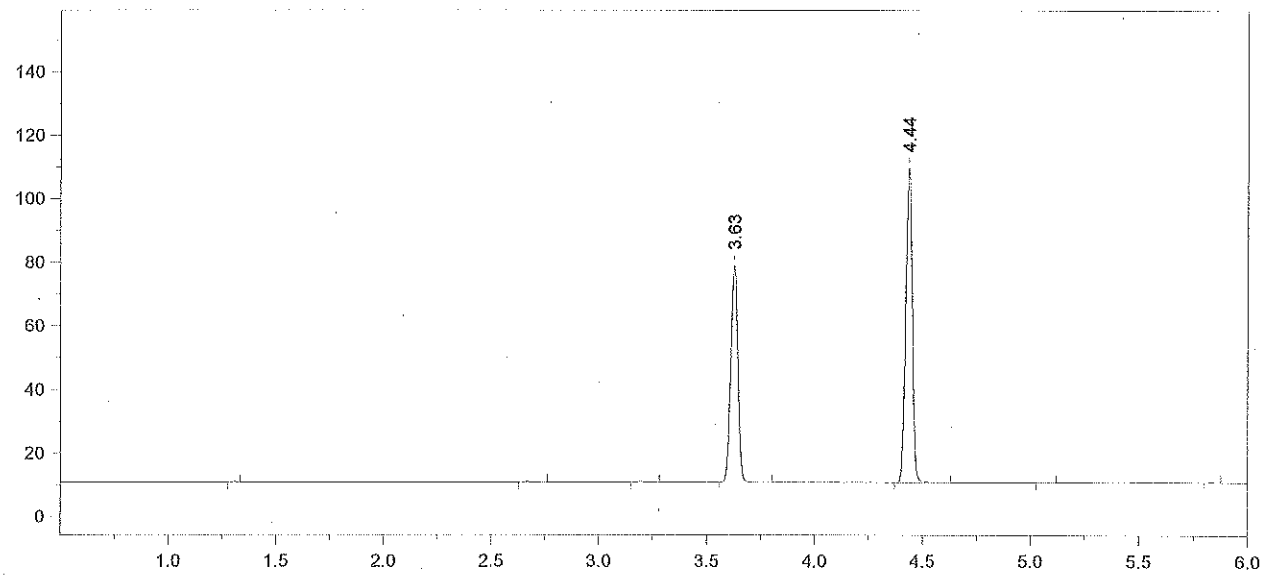
IS-03202014

TMX-08122013

ES-06162014

AQ QC ~~Ctr~~ 7/9/14 Cerilliant FN021111-03

7/9/14

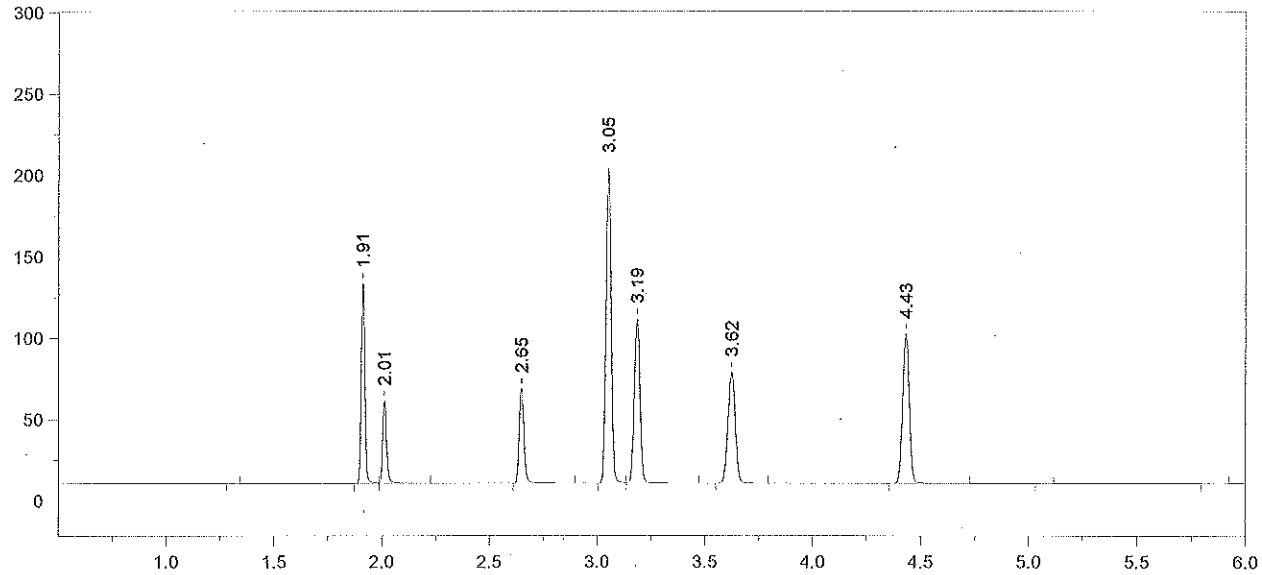


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 8:02:37 AM
Bound File Name = SIM07082014.0001.RAW
Sample Name = Blank
Date Taken = 7/8/2014 10:33:06 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	159001	0.9664
5	4.44	n-Propanol	209992	1.0000

14-07-100 45 Rem

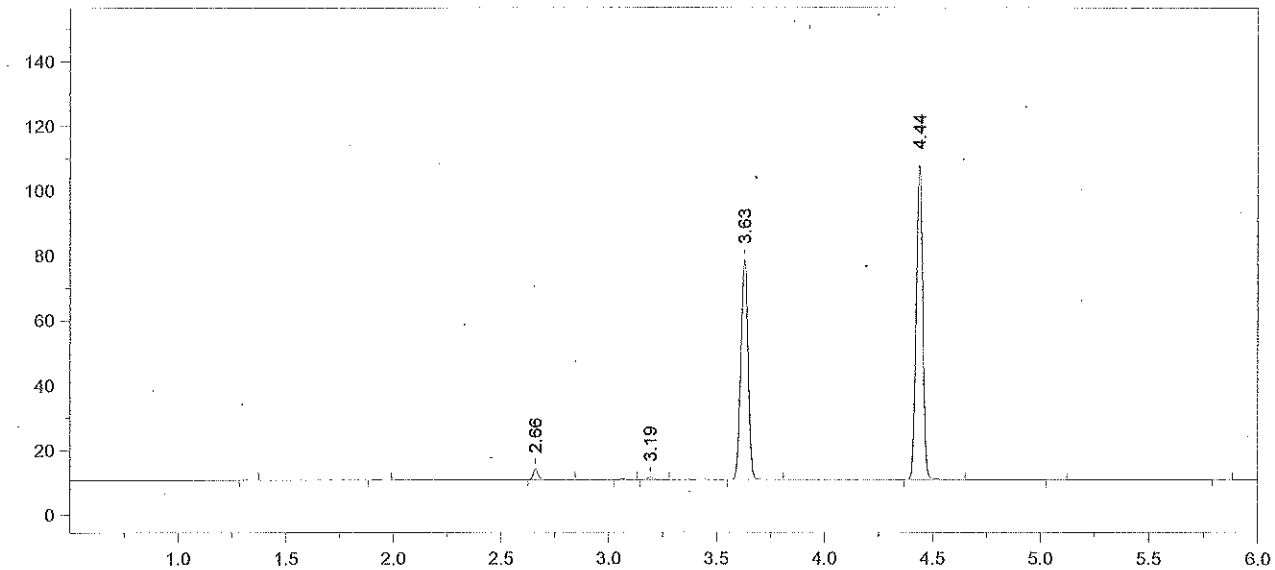


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014 Today's Time = 8:02:54 AM
Bound File Name = SIM07082014.0002.RAW
Sample Name = TMX
Date Taken = 7/8/2014 10:50:25 AM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	142576	0.0520
3	2.01	Methanol	65163	0.1370
4	2.65	Ethanol	90624	0.0887
5	3.05	Acetone	330510	0.0940
6	3.19	Isopropanol	188601	0.0850
7	3.62	t-Butanol	157696	1.0283
8	4.43	n-Propanol	195729	1.0000

14-07-100 46 RZM

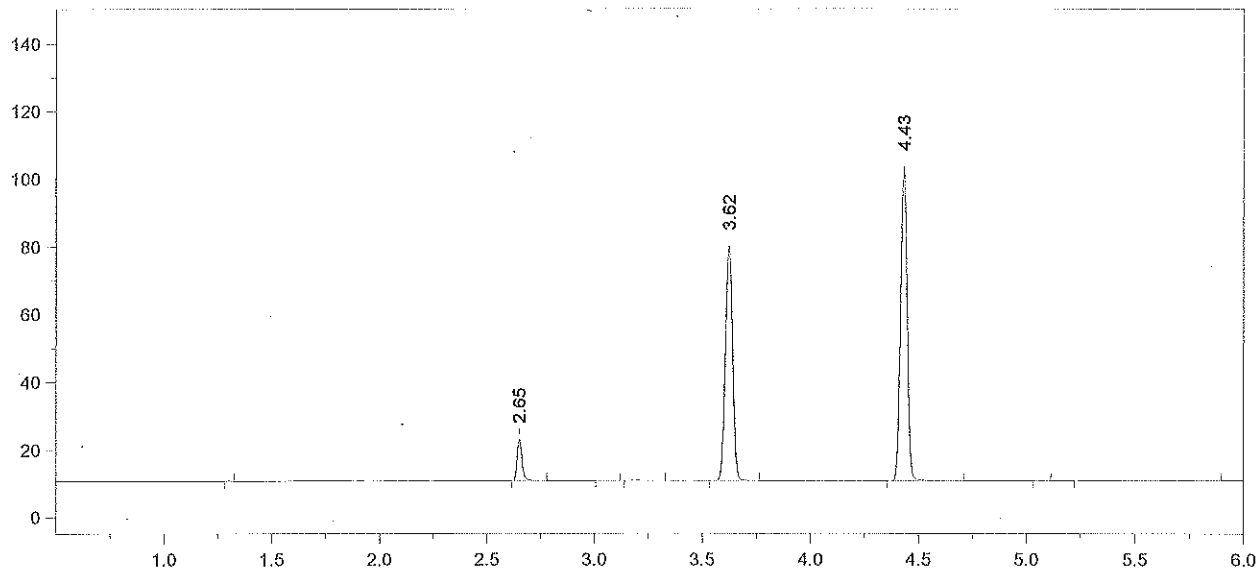


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 8:03:02 AM
Bound File Name = SIM07082014.0003.RAW
Sample Name = STD A
Date Taken = 7/8/2014 11:04:08 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05762	0.0053
5	3.19	Isopropanol	01502	<0.004
6	3.63	t-Butanol	157332	0.9727
7	4.44	n-Propanol	206442	1.0000

14-07-100 47 RRm

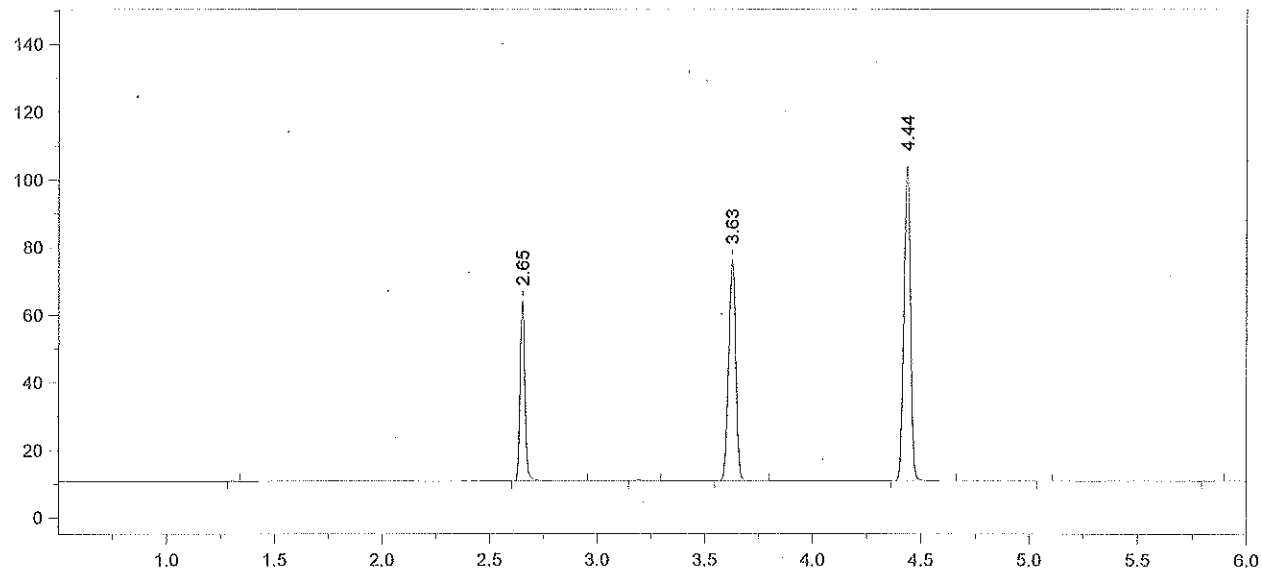


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 8:03:10 AM
Bound File Name = SIM07082014.0004.RAW
Sample Name = STD B
Date Taken = 7/8/2014 11:21:52 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	19819	0.0191
5	3.62	t-Butanol	160402	1.0291
6	4.43	n-Propanol	198923	1.0000

14-07-100 48 RZM

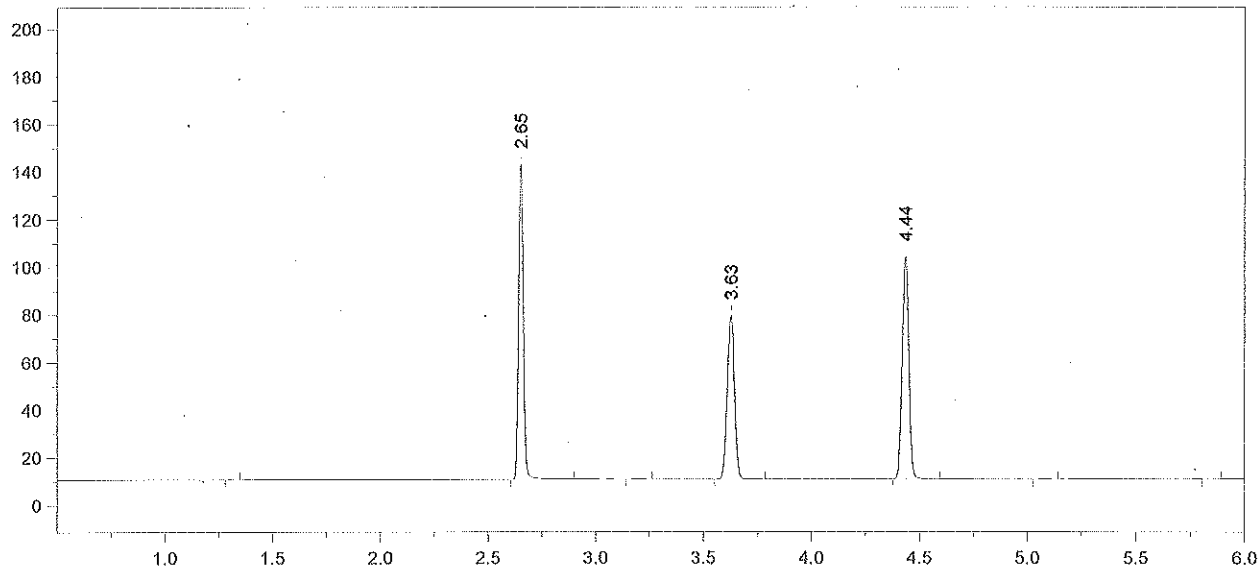


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 8:03:17 AM
Bound File Name = SIM07082014.0005.RAW
Sample Name = STD C
Date Taken = 7/8/2014 11:35:05 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83103	0.0806
4	3.63	t-Butanol	151074	0.9754
5	4.44	n-Propanol	197667	1.0000

14-07-100 49 Zem

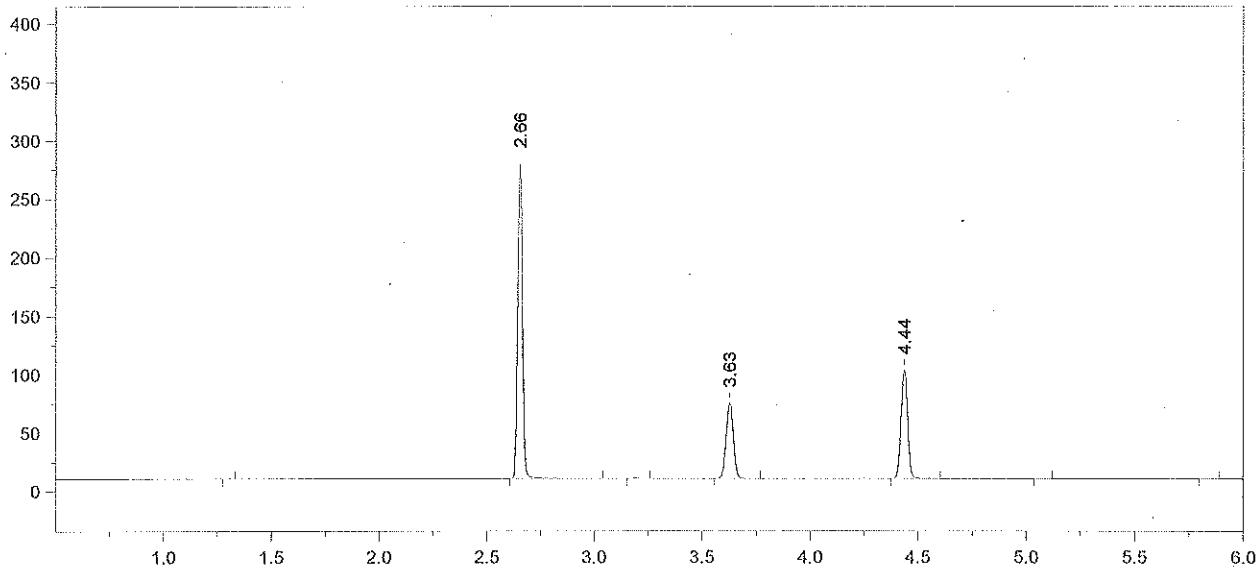


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 8:03:25 AM
Bound File Name = SIM07082014.0006.RAW
Sample Name = STD D
Date Taken = 7/8/2014 11:53:16 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	203236	0.1971
4	3.63	t-Butanol	158742	1.0256
5	4.44	n-Propanol	197550	1.0000

14-07-100 50 RZM

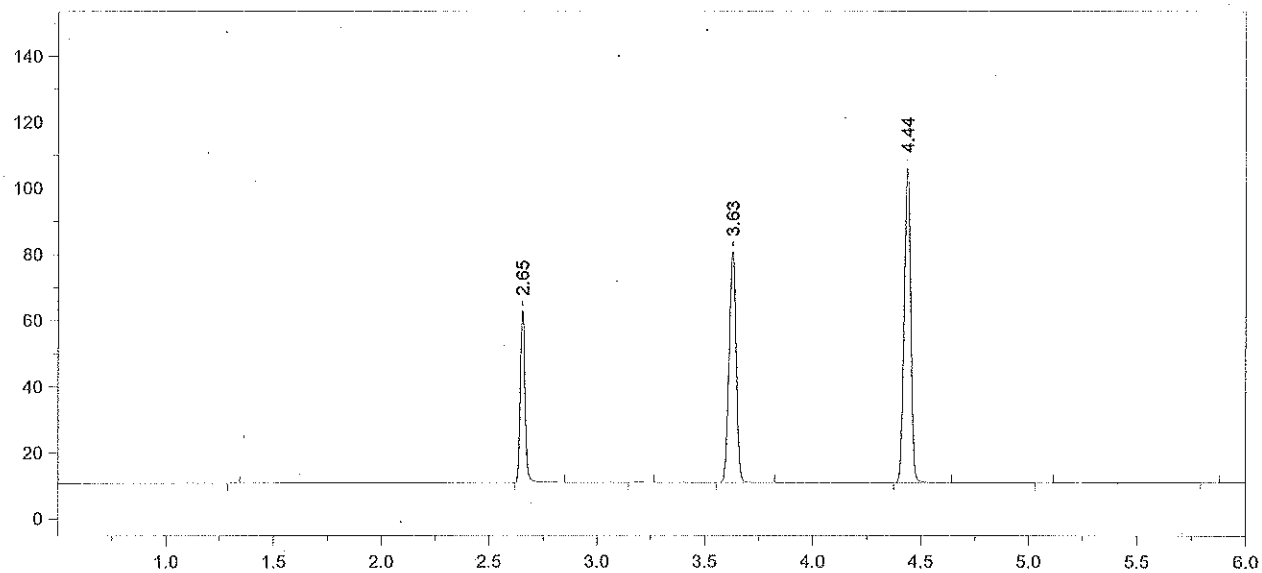


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 8:03:33 AM
Bound File Name = SIM07082014.0007.RAW
Sample Name = STD E
Date Taken = 7/8/2014 12:06:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	414132	0.4024
4	3.63	t-Butanol	149715	0.9690
5	4.44	n-Propanol	197198	1.0000

14-07-100 51 RZM

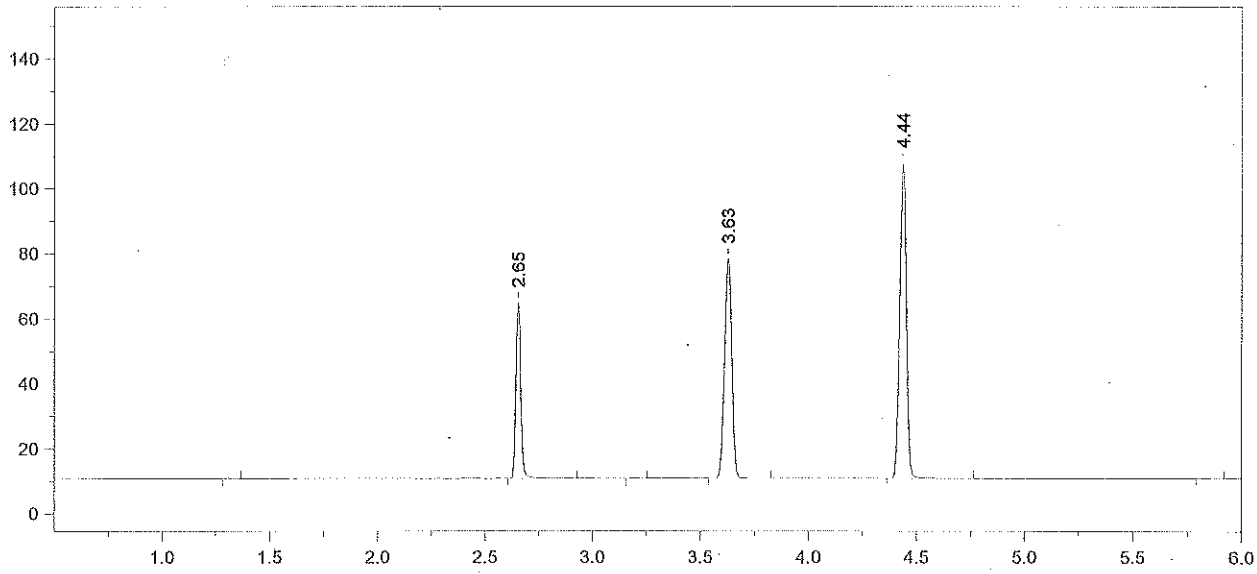


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 12:24:51 PM
Bound File Name = SIM07082014.0008.RAW
Sample Name = AQ QC
Date Taken = 7/8/2014 12:24:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81474	0.0775
4	3.63	t-Butanol	162062	1.0268
5	4.44	n-Propanol	201446	1.0000

14-07-100 52 RLM



Format File Name = AlcoholVFL.FMT

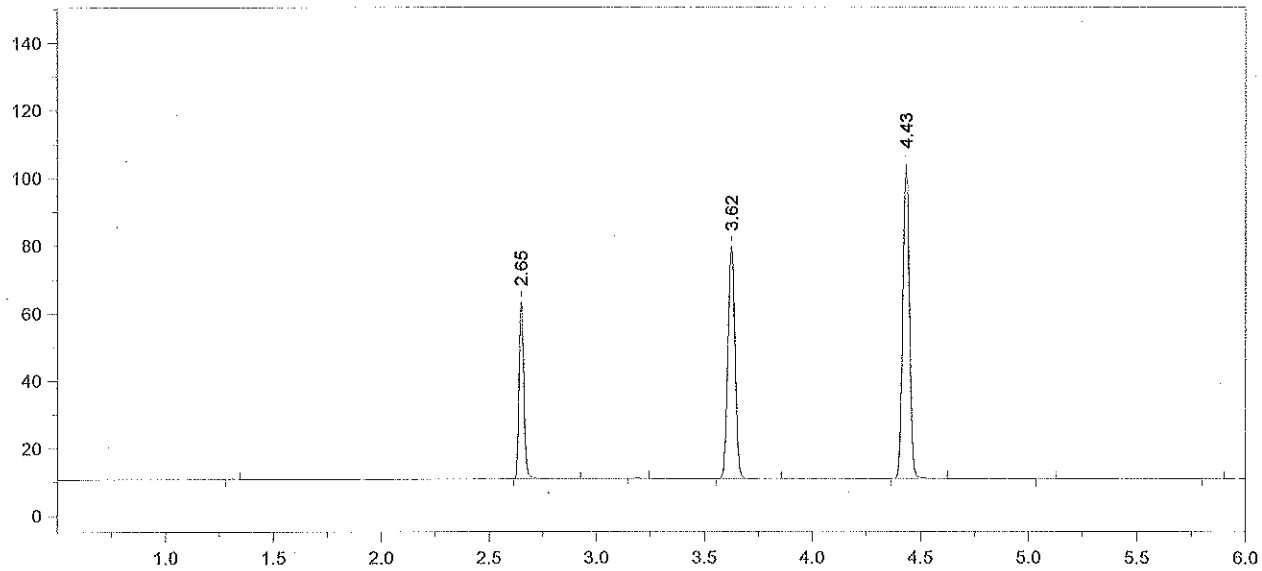
Today's Date = 7/8/2014
Today's Time = 12:38:02 PM
Bound File Name = SIM07082014.0009.RAW
Sample Name = AQ QC
Date Taken = 7/8/2014 12:37:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84779	0.0789
4	3.63	t-Butanol	156903	0.9732
5	4.44	n-Propanol	205762	1.0000

Avg vials 8+9= 0.078
7/9/14 [illegible]

TV= 0.080 97% recovery
7/9/14 [illegible]

14-07-100 53 [illegible]

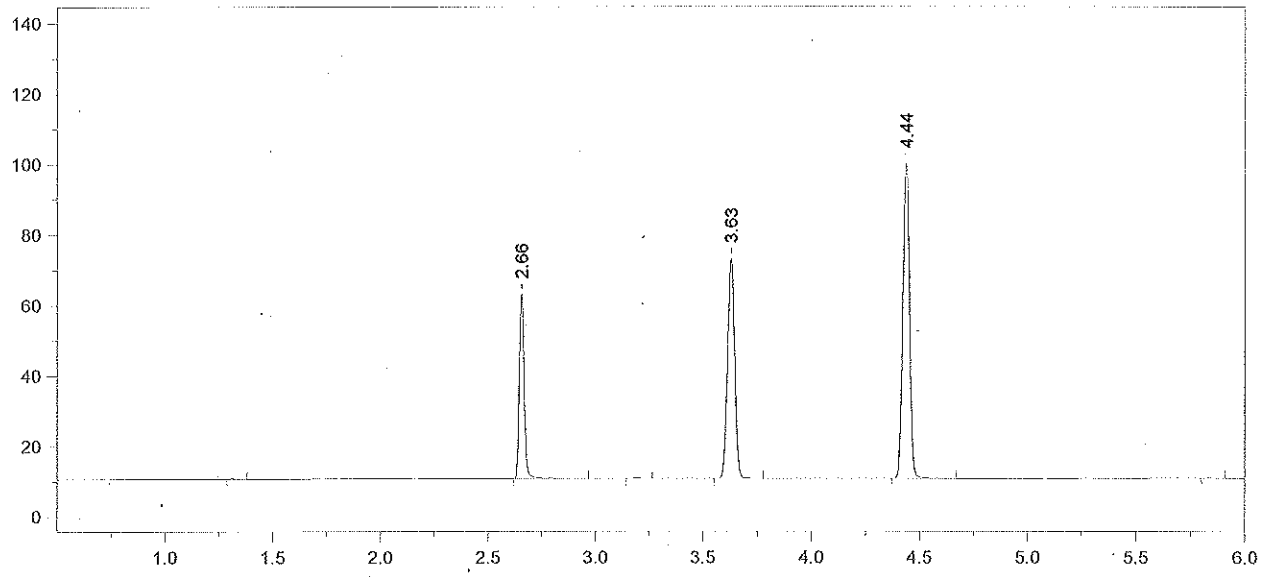


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 12:56:19 PM
Bound File Name = SIM07082014.0010.RAW
Sample Name = CCS
Date Taken = 7/8/2014 12:56:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82115	0.0796
4	3.62	t-Butanol	159958	1.0327
5	4.43	n-Propanol	197682	1.0000

14-07-100 54 RZm



Format File Name = AlcoholVFL.FMT

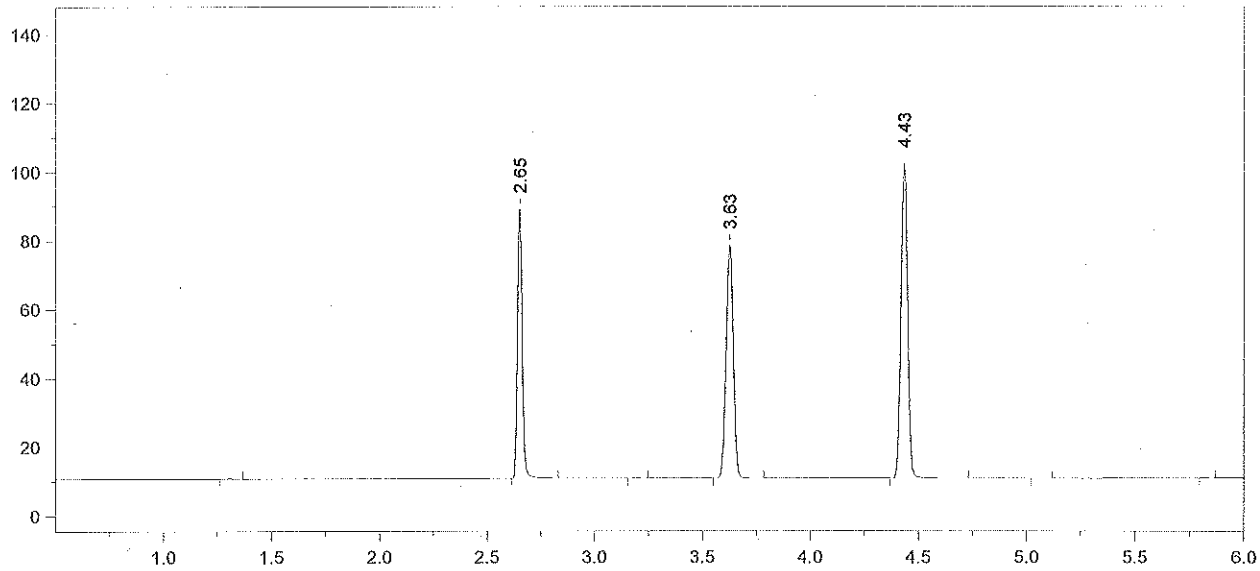
Today's Date = 7/8/2014
Today's Time = 1:10:08 PM
Bound File Name = SIM07082014.0011.RAW
Sample Name = CCS
Date Taken = 7/8/2014 1:10:00 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82100	0.0825
4	3.63	t-Butanol	144073	0.9645
5	4.44	n-Propanol	190647	1.0000

Avg vials 10 + 11 = 0.081

7/9/14 [illegible]

14-07-100 55 [illegible]

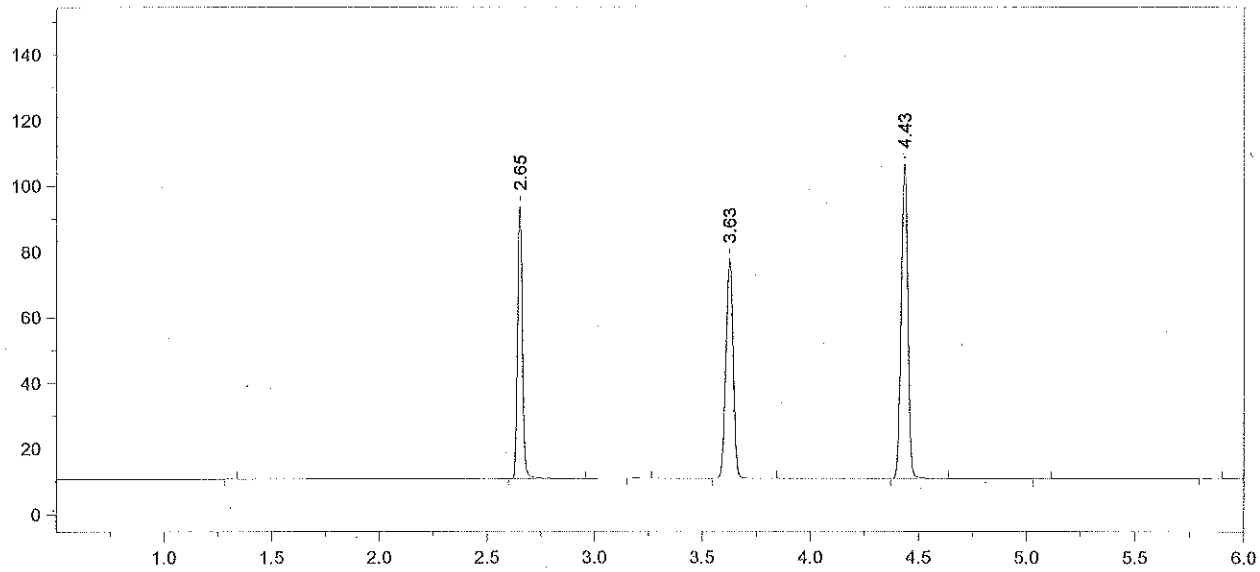


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 1:27:45 PM
Bound File Name = SIM07082014.0012.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 1:27:39 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121043	0.1192	0.0973
4	3.63	t-Butanol	156774	1.0280	0.8390
5	4.43	n-Propanol	194637	1.0000	0.8162

14-07-100 56 RZM

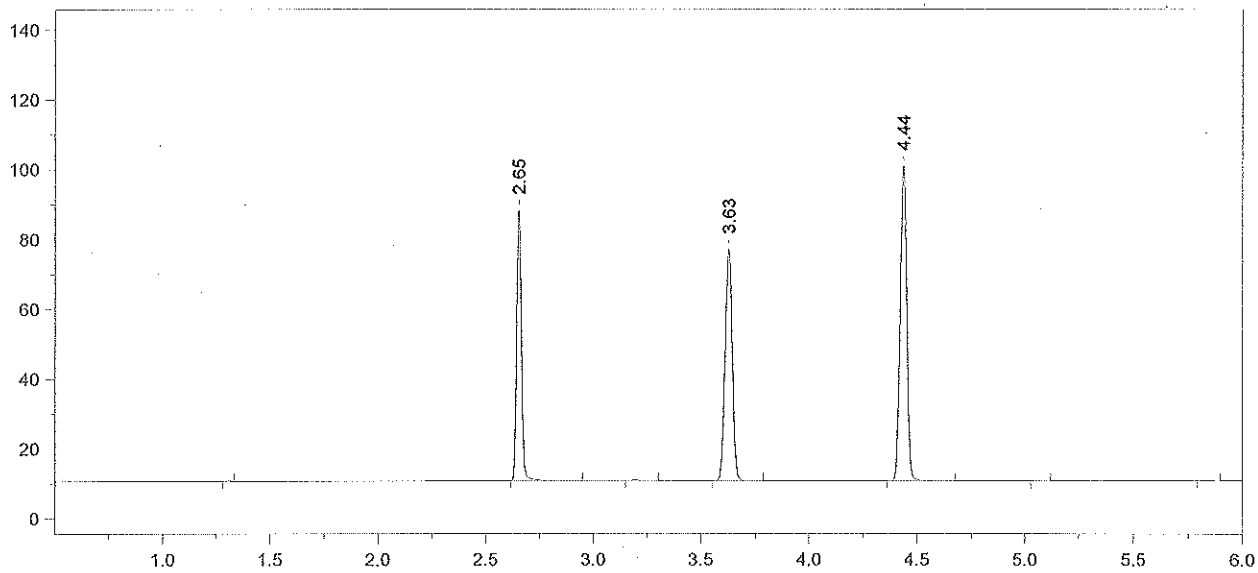


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 1:41:23 PM
Bound File Name = SIM07082014.0013.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 1:41:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130566	0.1227	0.1001
4	3.63	t-Butanol	155177	0.9710	0.7925
5	4.43	n-Propanol	203961	1.0000	0.8162

14-07-100 57 RLM

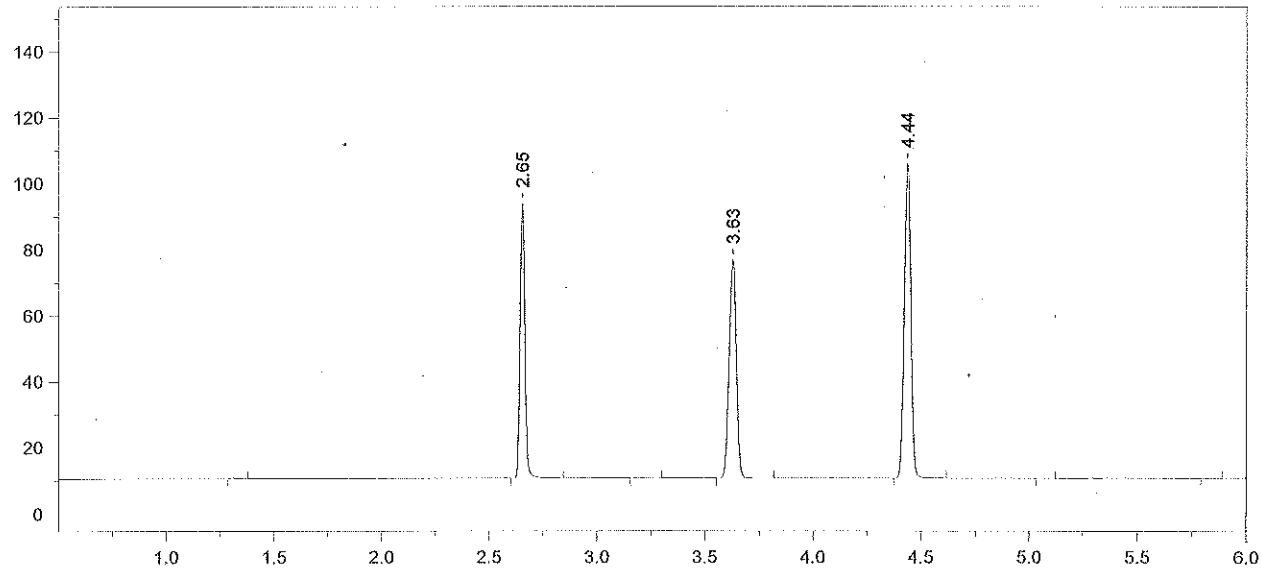


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014 Today's Time = 1:59:11 PM
Bound File Name = SIM07082014.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 1:59:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120129	0.1203	0.0982
4	3.63	t-Butanol	153293	1.0226	0.8347
5	4.44	n-Propanol	191318	1.0000	0.8162

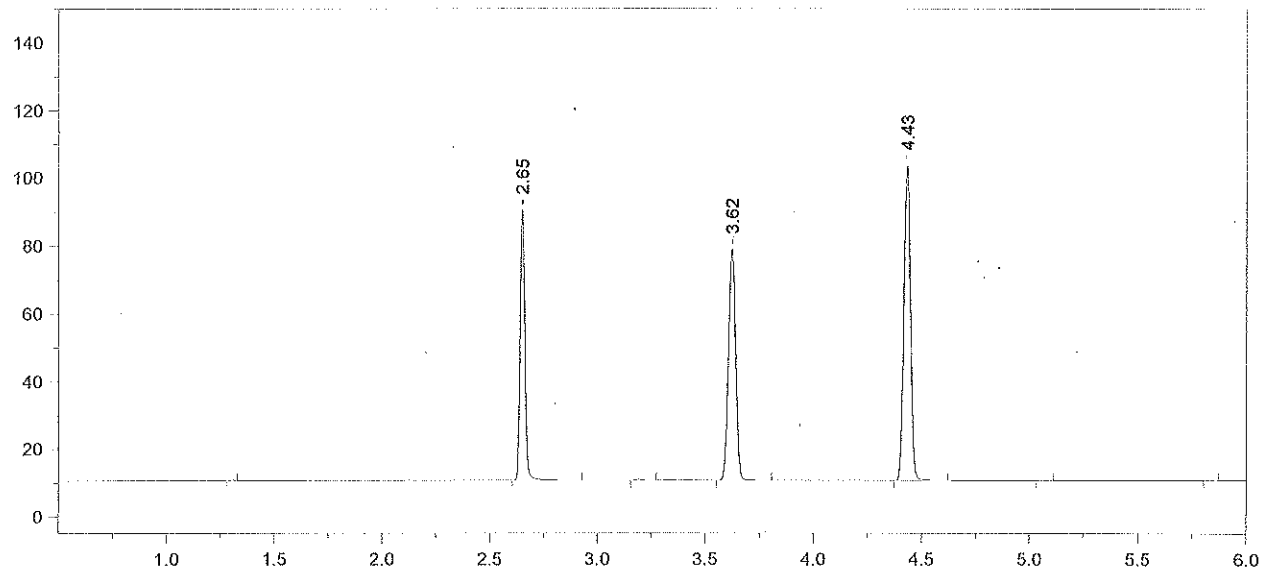
14-07-100 58 RLM



Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 2:12:25 PM
Bound File Name = SIM07082014.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 2:12:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128622	0.1218	0.0994
4	3.63	t-Butanol	153977	0.9711	0.7926
5	4.44	n-Propanol	202357	1.0000	0.8162

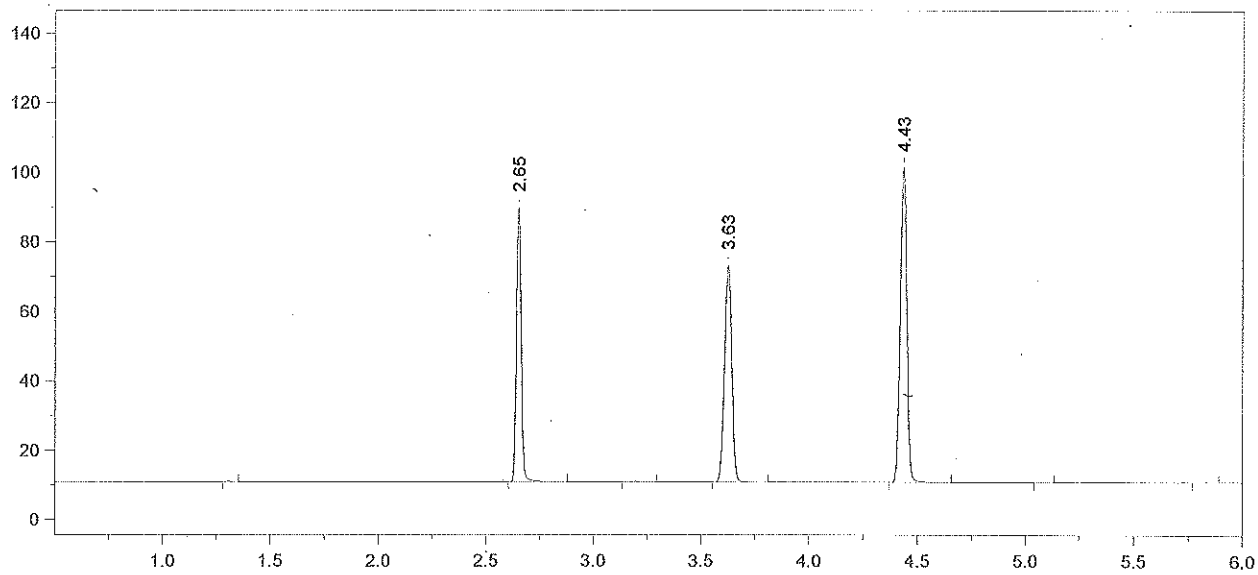


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 2:30:37 PM
Bound File Name = SIM07082014.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 2:30:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123674	0.1204	0.0983
4	3.62	t-Butanol	158144	1.0257	0.8371
5	4.43	n-Propanol	196785	1.0000	0.8162

14-07-100 60 RLM

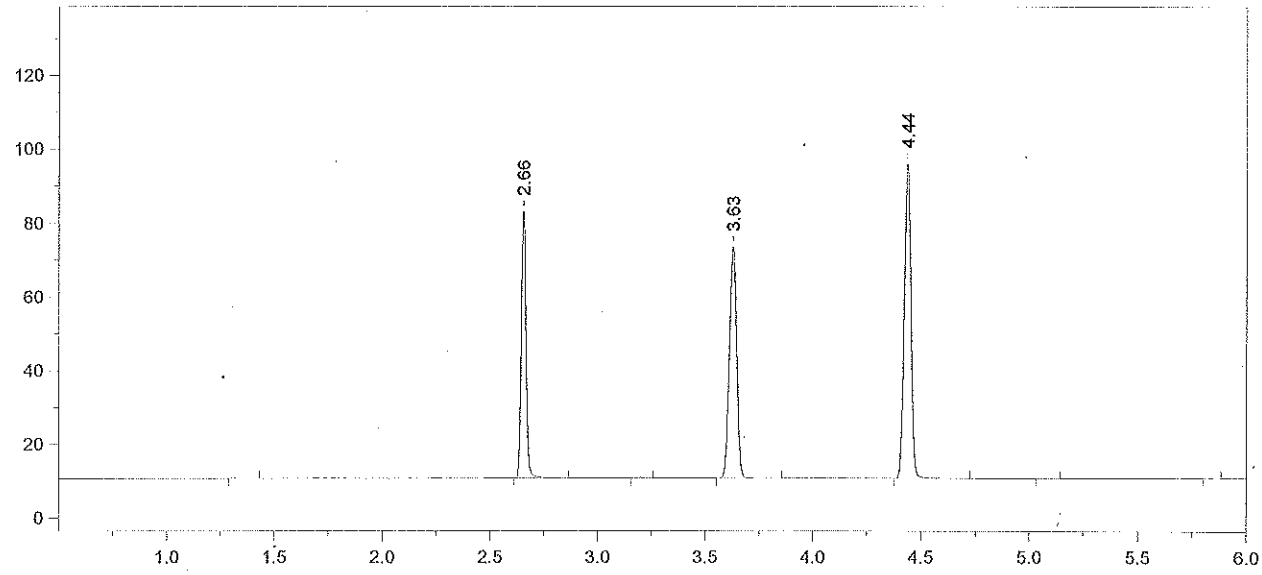


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 2:43:53 PM
Bound File Name = SIM07082014.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 2:43:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122685	0.1223	0.0998
4	3.63	t-Butanol	144469	0.9595	0.7831
5	4.43	n-Propanol	192170	1.0000	0.8162

14-07-100 61 RZM

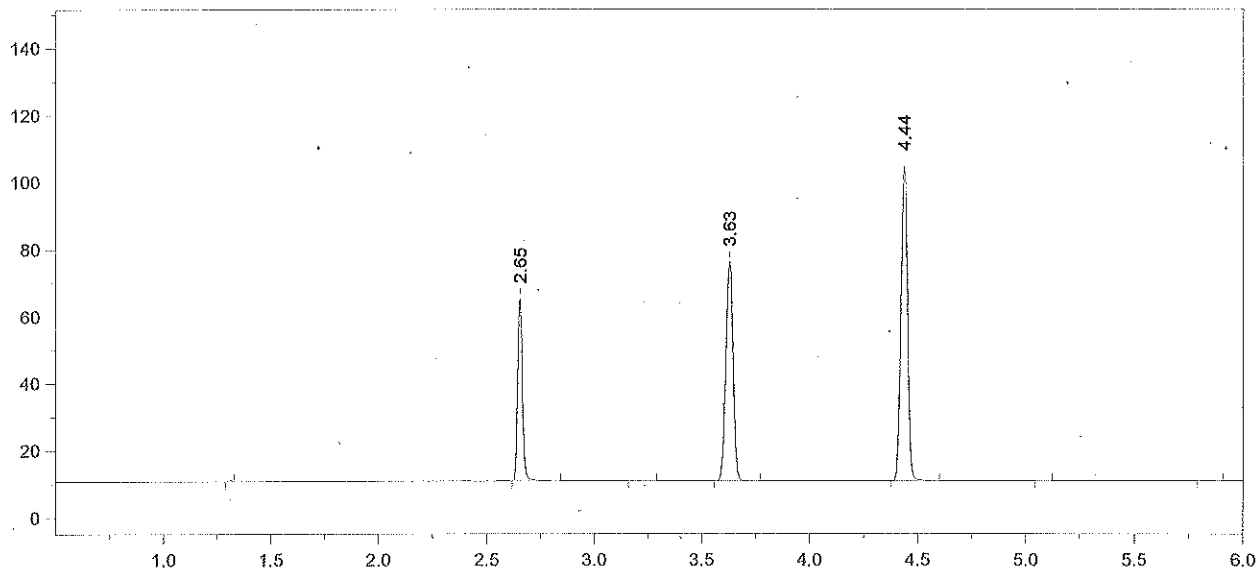


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 3:02:06 PM
Bound File Name = SIM07082014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 7/8/2014 3:01:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113041	0.1198	0.0978
4	3.63	t-Butanol	145443	1.0269	0.8382
5	4.44	n-Propanol	180758	1.0000	0.8162

14-07-100 62 RZM

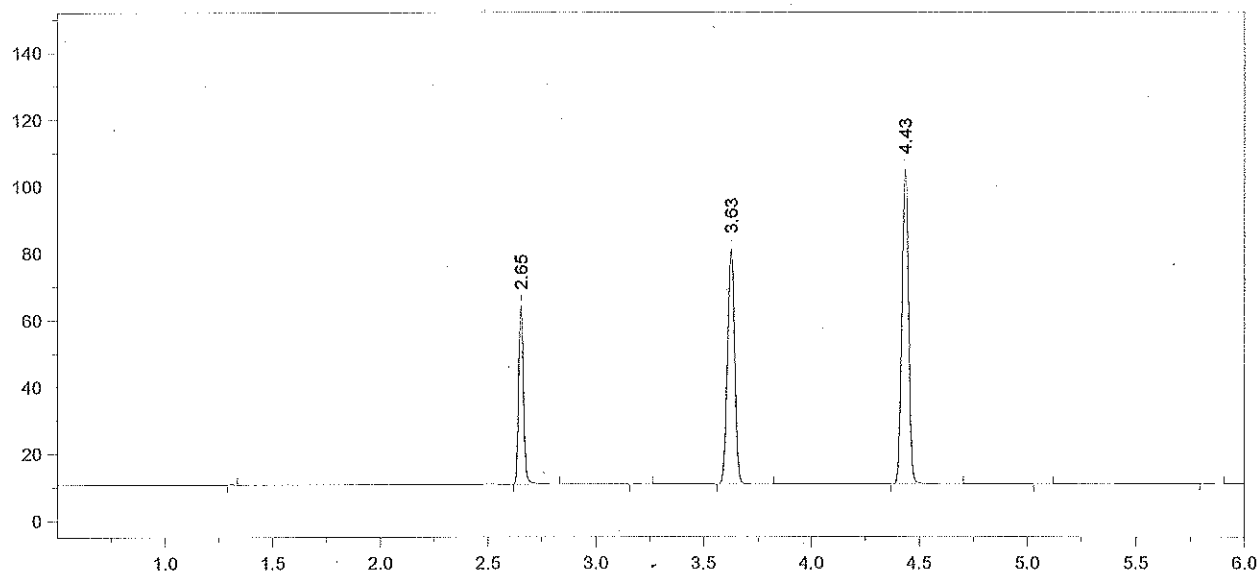


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 3:15:46 PM
Bound File Name = SIM07082014.0019.RAW
Sample Name = CCS
Date Taken = 7/8/2014 3:15:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84698	0.0817
4	3.63	t-Butanol	151996	0.9763
5	4.44	n-Propanol	198689	1.0000

14-07-100 63 RLM



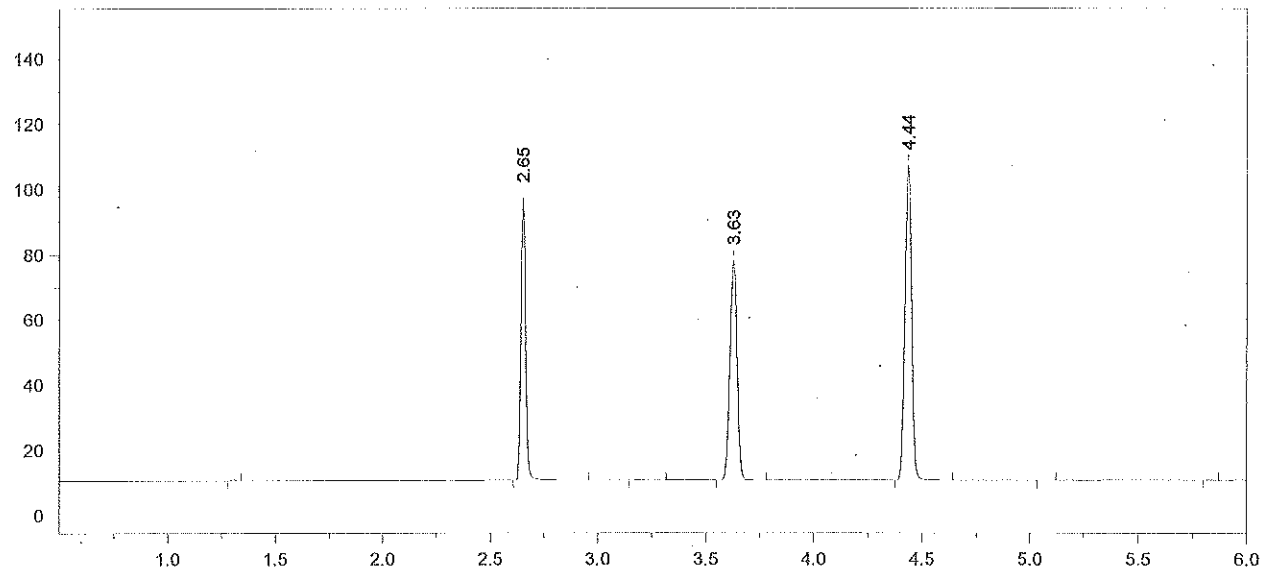
Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 3:33:28 PM
Bound File Name = SIM07082014.0020.RAW
Sample Name = CCS
Date Taken = 7/8/2014 3:33:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83166	0.0790
4	3.63	t-Butanol	162704	1.0294
5	4.43	n-Propanol	201717	1.0000

Avg vials 19 + 20 = 0.080
AD 7/9/14

14-07-100 64 RM

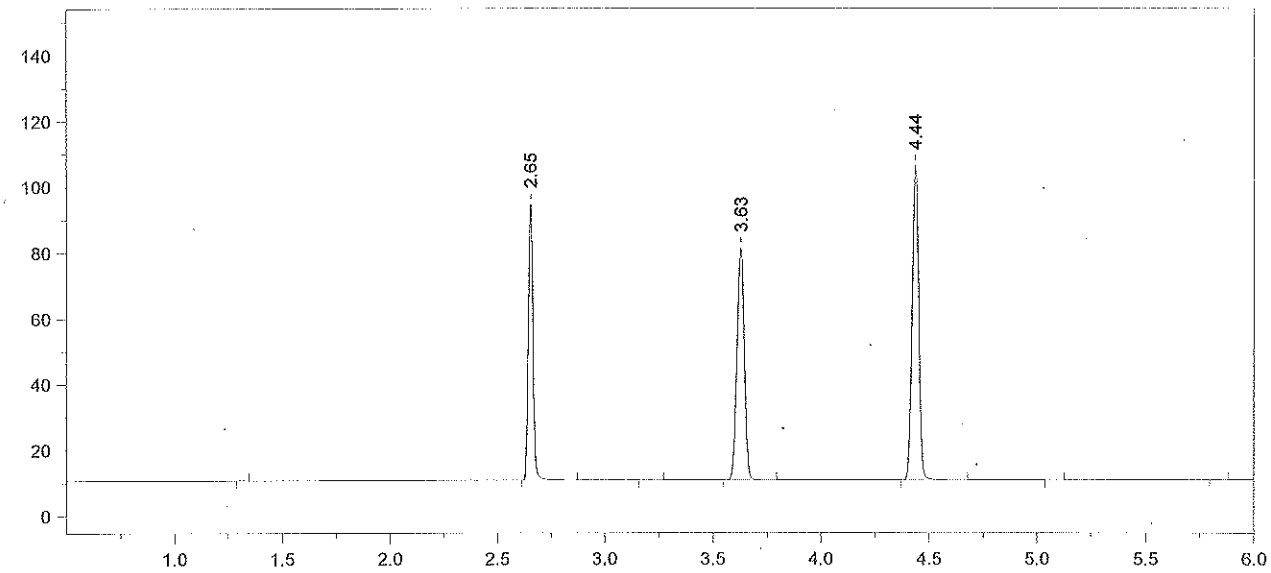


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 3:47:08 PM
Bound File Name = SIM07082014.0021.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 3:47:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133960	0.1253	0.1023
4	3.63	t-Butanol	155864	0.9710	0.7925
5	4.44	n-Propanol	204874	1.0000	0.8162

14-07-100 65 TZM

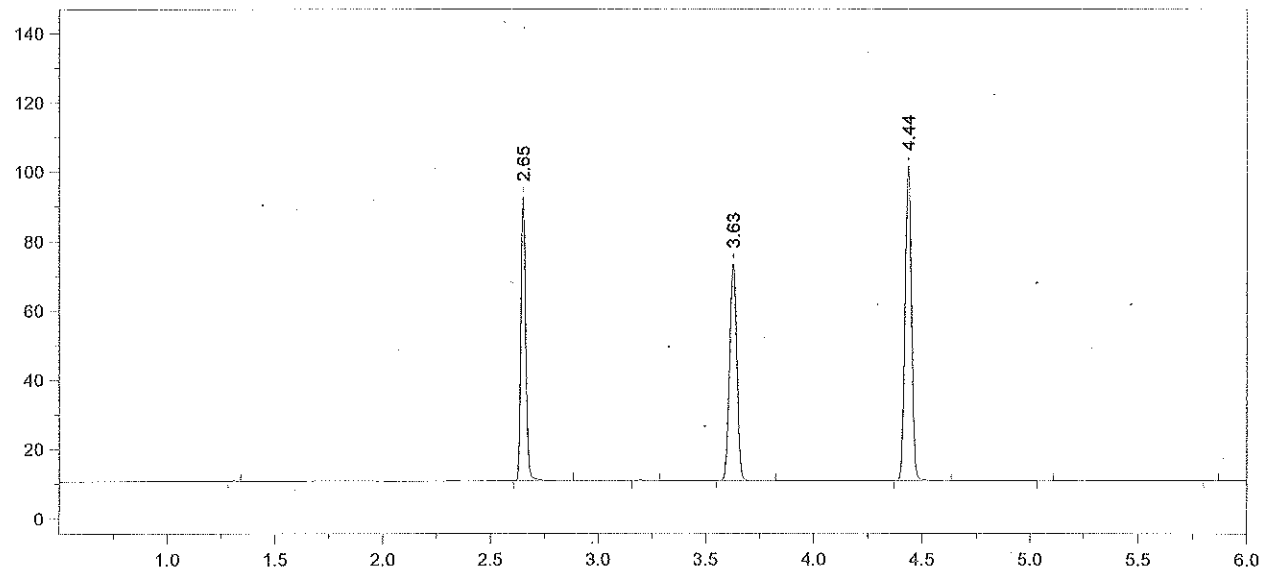


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014 Today's Time = 4:03:12 PM
Bound File Name = SIM07082014.0022.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 4:03:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129394	0.1219	0.0995
4	3.63	t-Butanol	163450	1.0261	0.8375
5	4.44	n-Propanol	203298	1.0000	0.8162

14-07-100 66 KZM

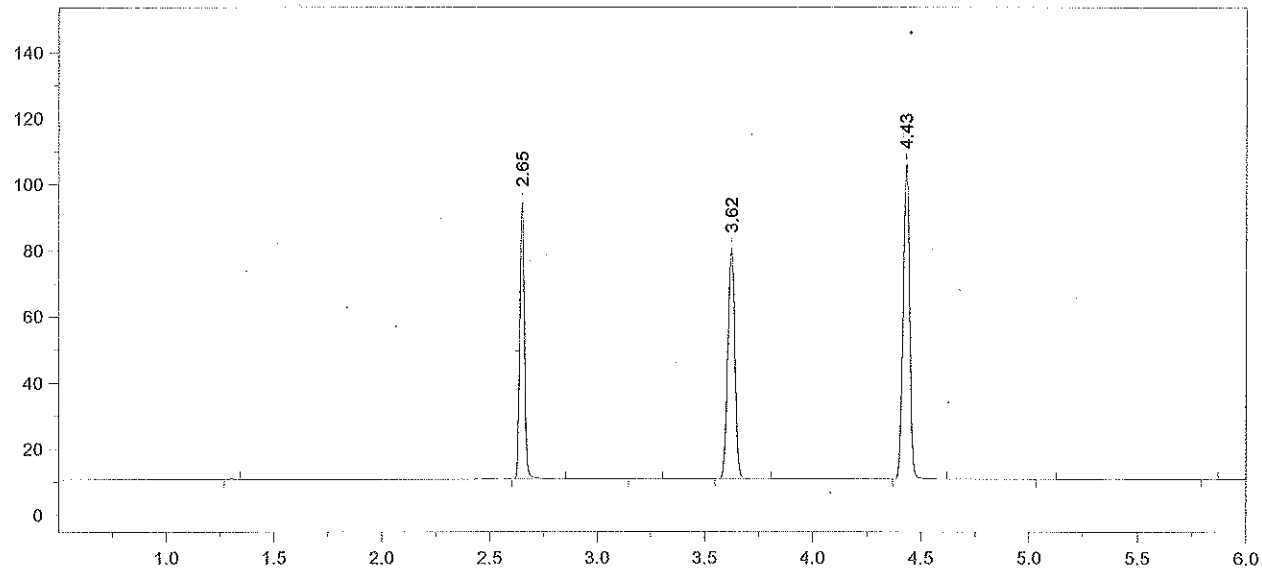


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014 Today's Time = 4:18:36 PM
Bound File Name = SIM07082014.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 4:18:26 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126555	0.1259	0.1028
4	3.63	t-Butanol	145216	0.9626	0.7857
5	4.44	n-Propanol	192532	1.0000	0.8162

14-07-100 67 RLM

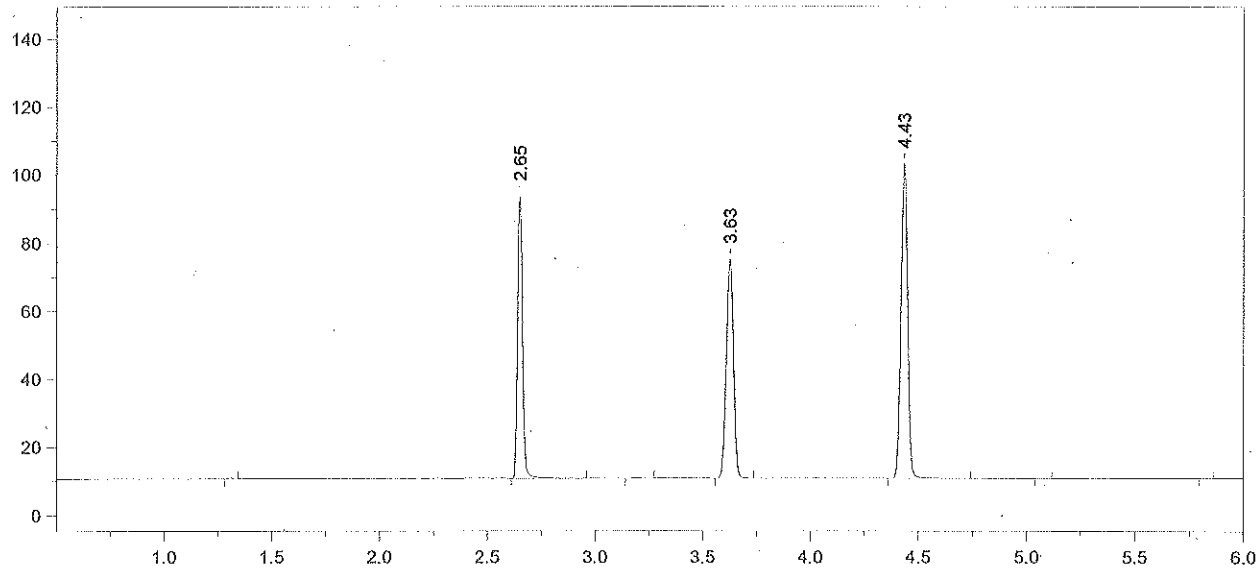


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 4:34:40 PM
Bound File Name = SIM07082014.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 4:34:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128927	0.1225	0.1000
4	3.62	t-Butanol	161886	1.0243	0.8361
5	4.43	n-Propanol	201701	1.0000	0.8162

14-07-100 68 REM

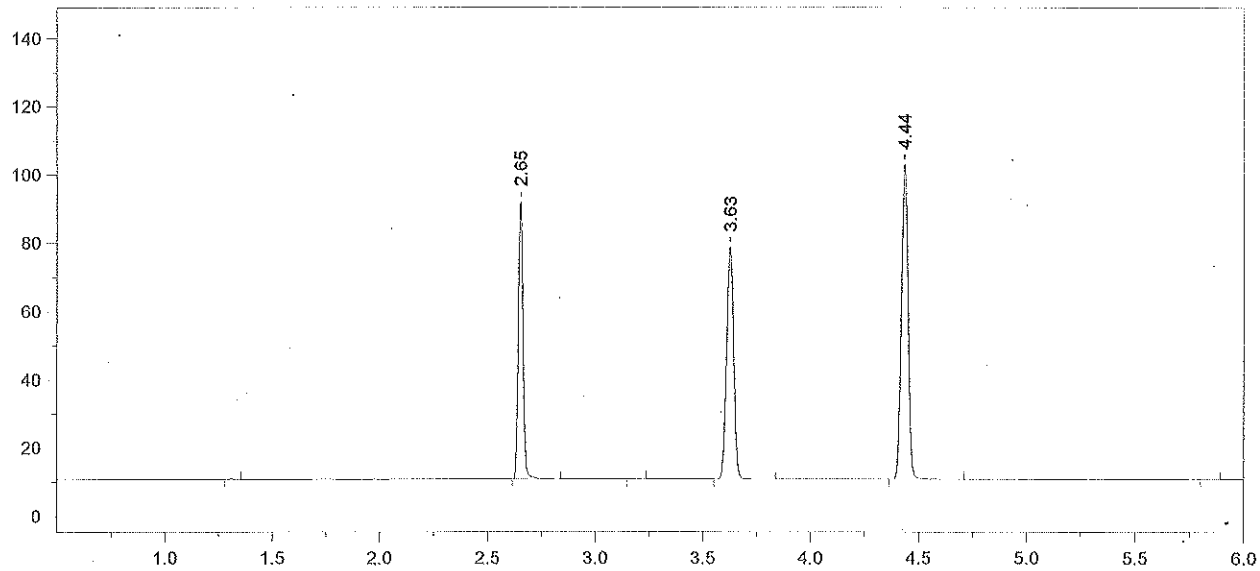


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 4:48:42 PM
Bound File Name = SIM07082014.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 4:48:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129345	0.1257	0.1026
4	3.63	t-Butanol	148932	0.9639	0.7867
5	4.43	n-Propanol	197196	1.0000	0.8162

14-07-100 69 RZM

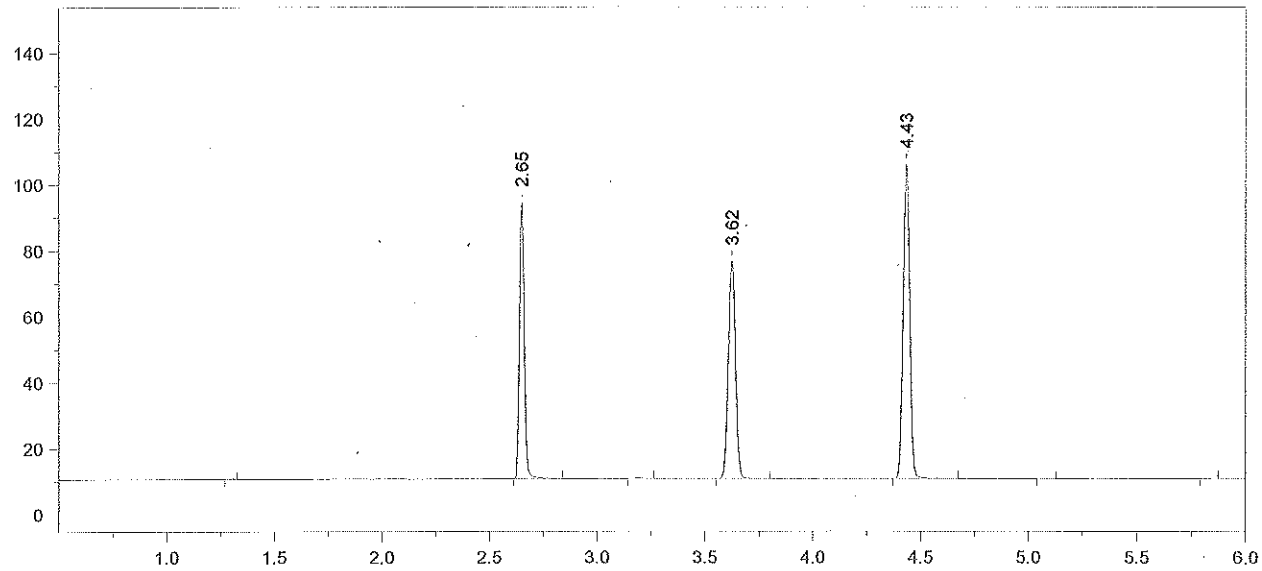


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014 Today's Time = 5:06:10 PM
Bound File Name = SIM07082014.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 5:06:02 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125021	0.1221	0.0996
4	3.63	t-Butanol	157409	1.0237	0.8355
5	4.44	n-Propanol	196250	1.0000	0.8162

14-07-100 70 Rem

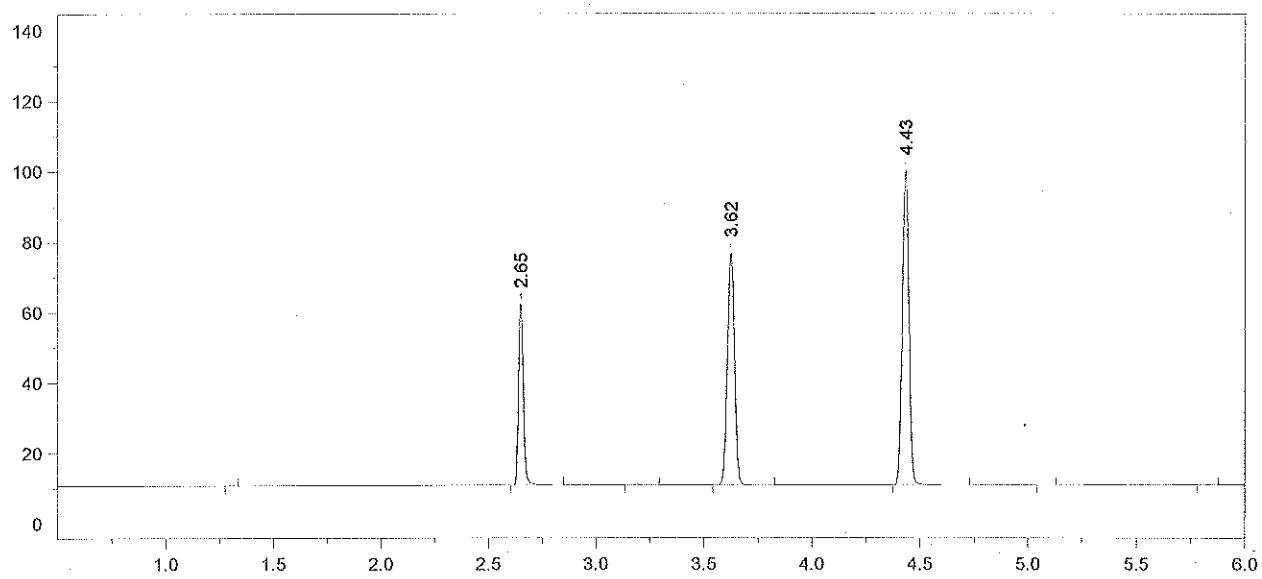


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2014
Today's Time = 5:19:54 PM
Bound File Name = SIM07082014.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 7/8/2014 5:19:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129049	0.1222	0.0997
4	3.62	t-Butanol	153317	0.9671	0.7894
5	4.43	n-Propanol	202326	1.0000	0.8162

14-07-100 71 RZM

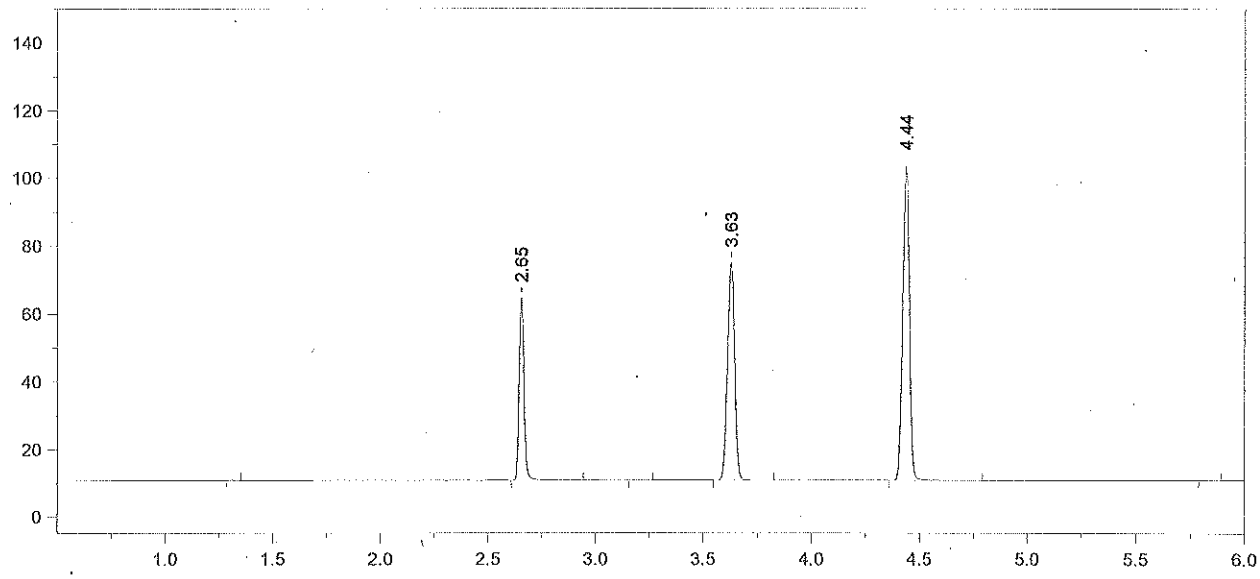


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 5:37:40 PM
Bound File Name = SIM07082014.0028.RAW
Sample Name = CCS
Date Taken = 7/8/2014 5:37:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80106	0.0806
4	3.62	t-Butanol	153207	1.0267
5	4.43	n-Propanol	190441	1.0000

14-07-100 72 RZ



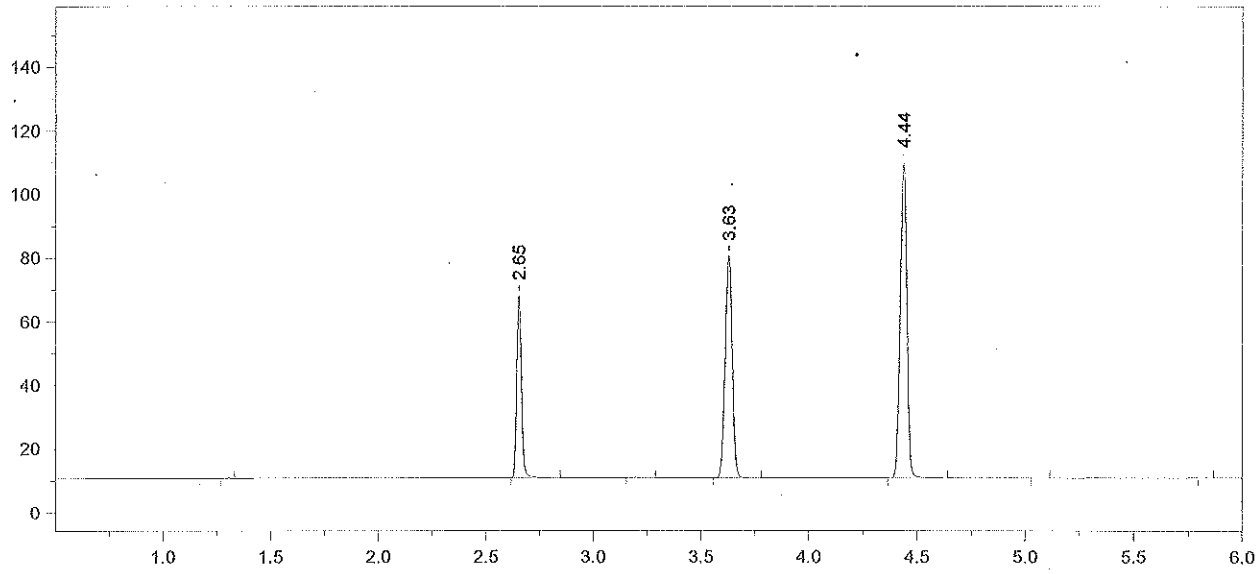
Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 5:51:20 PM
Bound File Name = SIM07082014.0029.RAW
Sample Name = CCS
Date Taken = 7/8/2014 5:51:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84323	0.0820
4	3.63	t-Butanol	149424	0.9681
5	4.44	n-Propanol	196980	1.0000

Avg vials 28+29 = 0.081
7/9/14 [illegible]

14-07-100 73 [illegible]

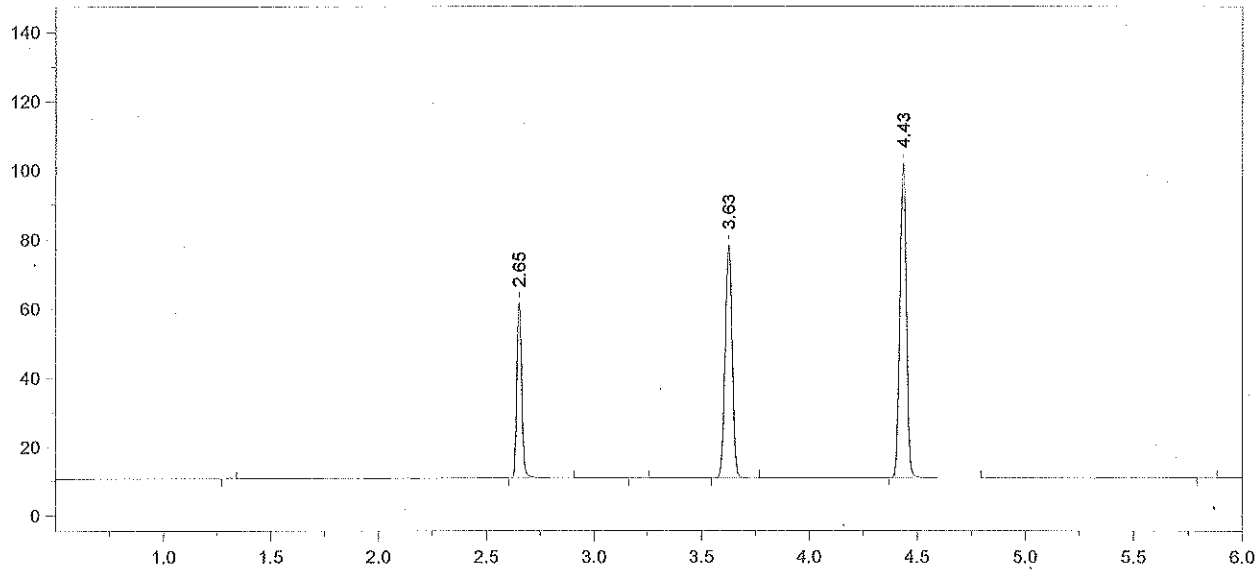


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 7:56:36 PM
Bound File Name = SIM07082014.0037.RAW
Sample Name = CCS
Date Taken = 7/8/2014 7:56:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88715	0.0811
4	3.63	t-Butanol	161995	0.9860
5	4.44	n-Propanol	209691	1.0000

14-07-100 74 RZM



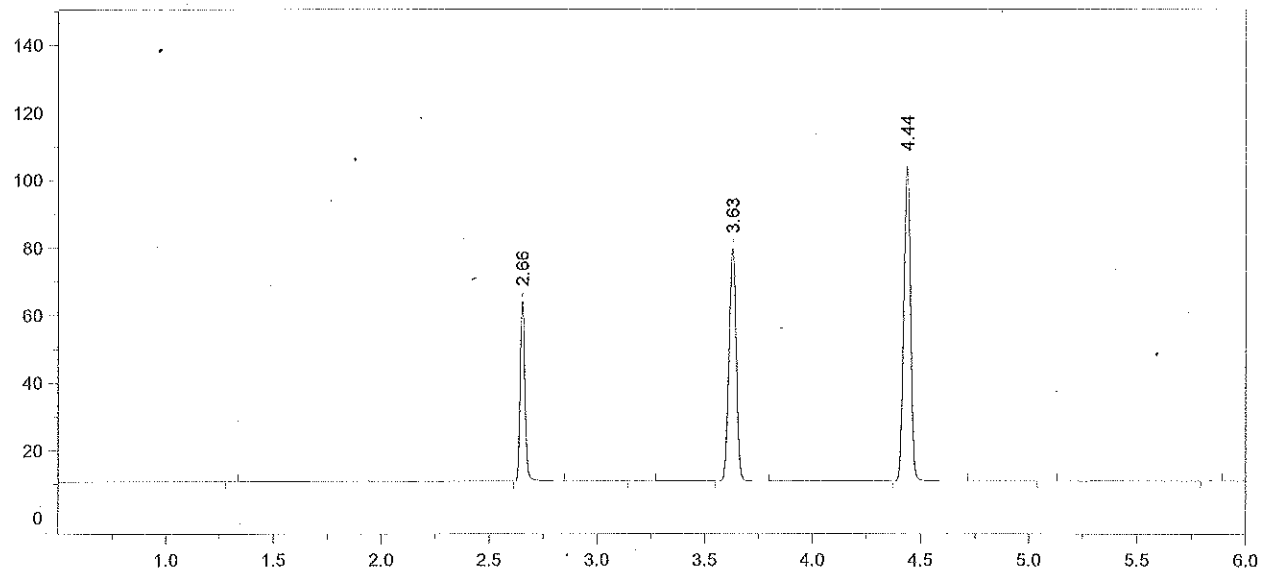
Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 8:14:52 PM
Bound File Name = SIM07082014.0038.RAW
Sample Name = CCS
Date Taken = 7/8/2014 8:14:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80040	0.0797
4	3.63	t-Butanol	156171	1.0352
5	4.43	n-Propanol	192534	1.0000

Avg vials 37 + 38 = 0.080
7/9/14 AHB

14-07-100 75 RZM

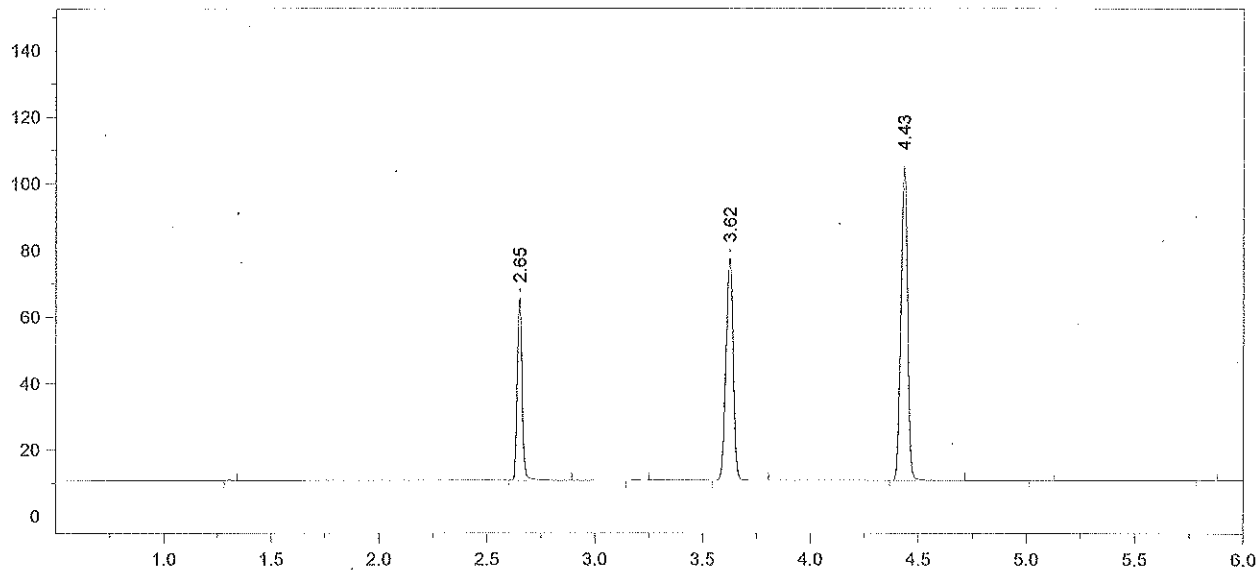


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 10:19:08 PM
Bound File Name = SIM07082014.0046.RAW
Sample Name = CCS
Date Taken = 7/8/2014 10:19:00 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	83507	0.0805
4	3.63	t-Butanol	159860	1.0271
5	4.44	n-Propanol	198639	1.0000

14-07-100 76 Kem



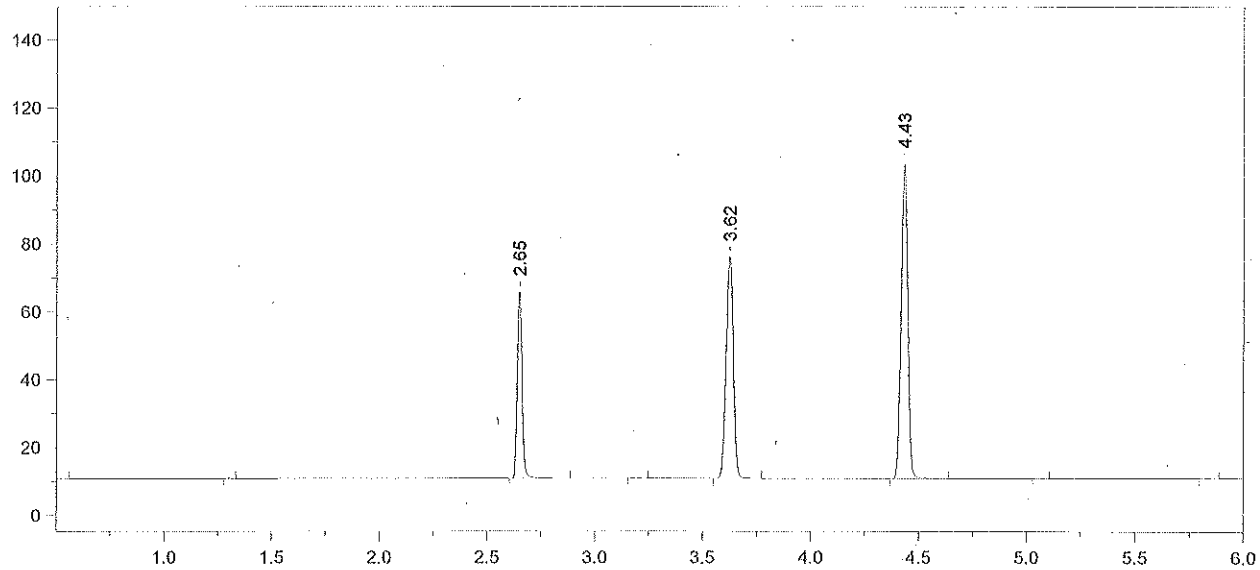
Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2014
Today's Time = 10:32:48 PM
Bound File Name = SIM07082014.0047.RAW
Sample Name = CCS
Date Taken = 7/8/2014 10:32:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85487	0.0815
4	3.62	t-Butanol	154844	0.9837
5	4.43	n-Propanol	200889	1.0000

Avg vals 46 + 47 = 0.081
7/9/14 [illegible]

14-07-100 77 [illegible]

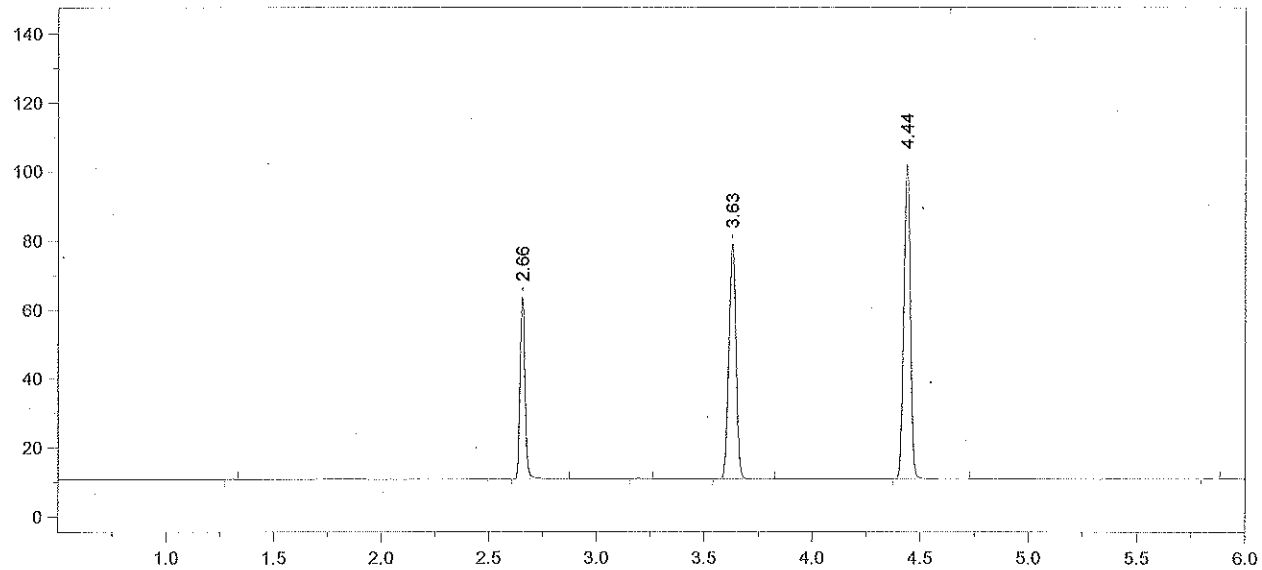


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 12:37:14 AM
Bound File Name = SIM07082014.0055.RAW
Sample Name = CCS
Date Taken = 7/9/2014 12:37:06 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	85796	0.0836
5	3.62	t-Butanol	151748	0.9854
6	4.43	n-Propanol	196541	1.0000

14-07-100 78 Rem



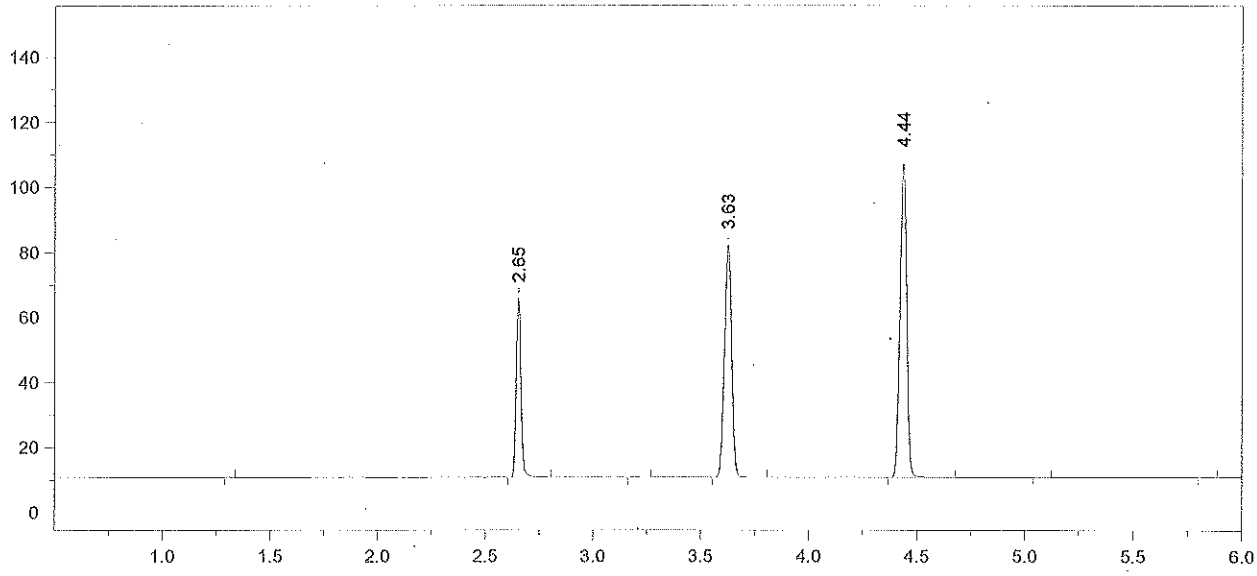
Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 12:54:55 AM
Bound File Name = SIM07082014.0056.RAW
Sample Name = CCS
Date Taken = 7/9/2014 12:54:46 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82367	0.0811
4	3.63	t-Butanol	157607	1.0343
5	4.44	n-Propanol	194477	1.0000

Avg vials 55+56 = 0.082
7/9/14 [illegible]

14-07-100 79 [illegible]

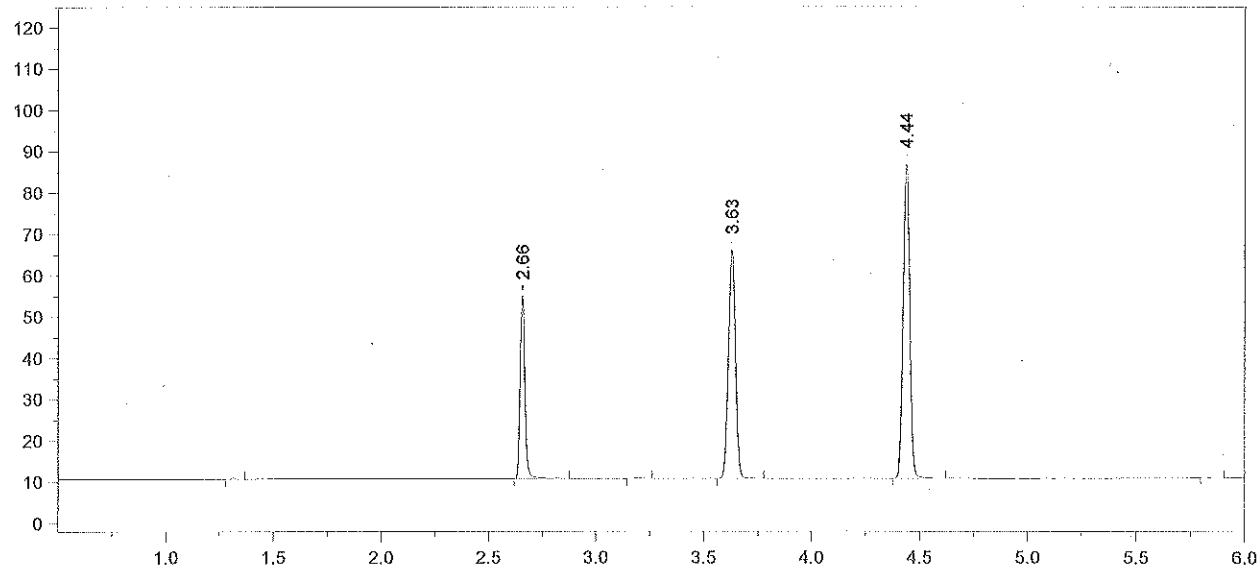


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 2:58:54 AM
Bound File Name = SIM07082014.0064.RAW
Sample Name = CCS
Date Taken = 7/9/2014 2:58:49 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85461	0.0797
4	3.63	t-Butanol	165519	1.0277
5	4.44	n-Propanol	205561	1.0000

14-07-100 80 RZM



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2014
Today's Time = 3:13:56 AM
Bound File Name = SIM07082014.0065.RAW
Sample Name = CCS
Date Taken = 7/9/2014 3:13:47 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM07082014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	69339	0.0821
4	3.63	t-Butanol	127936	1.0087
5	4.44	n-Propanol	161873	1.0000

Avg vials 64 + 65 = 0.081
AMS 7/9/14

14-07-100 81