VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 6/19/2014, 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 14-05-100 and an expiration date of 6/19/2015.

On 6/19/2014 and 6/24/2014, the solution was analyzed against calibration VFL06192014 and SIM06242014. 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 0.098 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Wednesday, June 25, 2014.

Rebecca Mead

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION
~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST
RLM 6/25/14

LOT #
~~AGENCY CASE #~~: 14-05-100 RLM 6/25/14
LAB #: N/A

ANALYST: RLM

TECHNICAL REVIEWER: ALB

DATE: 6/26/14

- ☑ QC complete?
- ☑ Pertinent standard lot numbers listed?
- ☑ Data package is complete?
- ☑ Transcribed data and calculations verified?
- ☑ Calibration and control results all within ± 10% (± 20% for STD A) of the known values?
- ☑ Calibration line correlation factor at least 0.99xx?
- ☑ Average error for components of the calibration line less than 10%?
- ☑ Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
- ☑ Surrogate compound concentrations all within 0.900 to 1.100 range?
- ☑ 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?
- ☐ 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: TLCA

DATE: 6/26/2014

- ☑ 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?
- ☑ Are all pages numbered and initialed on the Examination Documents?
- ☑ 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: TLCA

DATE: 6/26/2014

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

Check Mark or X = pass, NA= Not Applicable

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 External Standard 20L
Lot # 14-05-100
Prepared 6/19/2014 by RLM
Exp 6/19/2015

RLM CAL VFL06192014
RLM/ALB Vials
Analyzed on 6/19/2014

0.0976	rlm
0.0989	
0.0973	
0.0995	
0.0968	
0.0999	
0.0971	
0.0981	alb
0.0953	
0.0996	
0.0979	
0.0983	
0.0957	
0.0989	

Ave. =	0.0979
Std Dev. =	0.0014
Range =	0.0953-0.0999

RLM CAL SIM06242014
RLM/ALB Vials
Analyzed on 6/24/2014

0.0971	rlm
0.0984	
0.0966	
0.0988	
0.0965	
0.0986	
0.0967	
0.1008	alb
0.0970	
0.1007	
0.0985	
0.0987	
0.0978	
0.0995	

Ave. =	0.0983
Std Dev. =	0.0014
Range =	0.0965-0.1008

Total Values from Both Runs

Average	Mean
0.0976	0.0953
0.0989	0.0957
0.0973	0.0965
0.0995	0.0966
0.0968	0.0967
0.0999	0.0968
0.0971	0.0970
0.0981	0.0971
0.0953	
0.0996	0.0973
0.0979	0.0976
0.0983	0.0978
0.0957	0.0979
0.0989	0.0981
0.0971	0.0983
0.0984	0.0984
0.0966	0.0985
0.0988	0.0986
0.0965	0.0987
0.0986	0.0988
0.0967	0.0989
0.1008	
0.0970	0.0995
0.1007	
0.0985	0.0996
0.0987	0.0999
0.0978	0.1007
0.0995	0.1008

Ave. =	0.0981
Avg Std Dev. =	0.0014
Mean =	0.0980
Mean Std Dev. =	0.0014
Range =	0.0953-0.1008
RPD =	5.60%

File Name: C:\Methods\VFL06192014.CAL
Version: 7

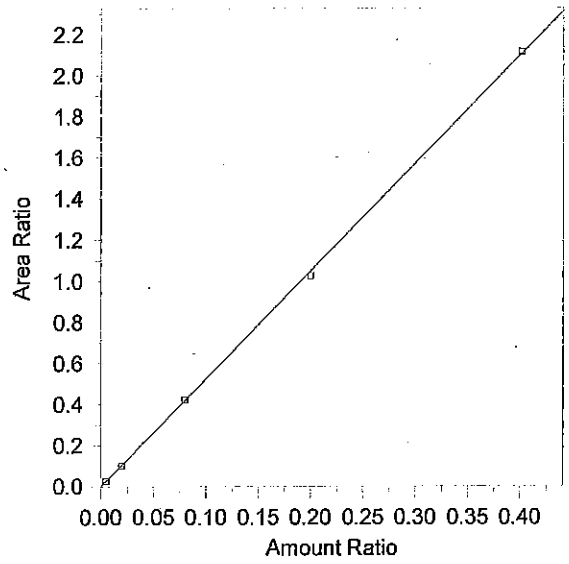
Creator:
Description:
Reason for change:

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: 2.654 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

$Y = 5.248776 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9997879
Average error: 2.210%
Average CF: 5.257535
RSD: 3.119%

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	5340.931	1089986	5.036	0.0049	2.701432E-02	C:\Alcohol Data\VFL06192014\VFL06192014.0003.BND	6/19/2014 4:25:44 PM
3	0.0197	19888.23	1009555	-2.974	0.0197	0.1003257	C:\Alcohol Data\VFL06192014\VFL06192014.0004.BND	6/19/2014 4:42:06 PM
4	0.0801	83892.56	1047348	0.386	0.0801	0.4220491	C:\Alcohol Data\VFL06192014\VFL06192014.0005.BND	6/19/2014 4:57:47 PM
5	0.1998	213538.7	1068762	-2.135	0.1998	1.02632	C:\Alcohol Data\VFL06192014\VFL06192014.0006.BND	6/19/2014 5:12:00 PM
6	0.4011	431805.1	1076552	0.521	0.4011	2.116246	C:\Alcohol Data\VFL06192014\VFL06192014.0007.BND	6/19/2014 5:28:16 PM

14-05-100 2

File Name = C:\Alcohol Data\VFL06192014\VFL06192014.SEQ
Version = 2
File Date = 6/20/2014 9:10:43 AM

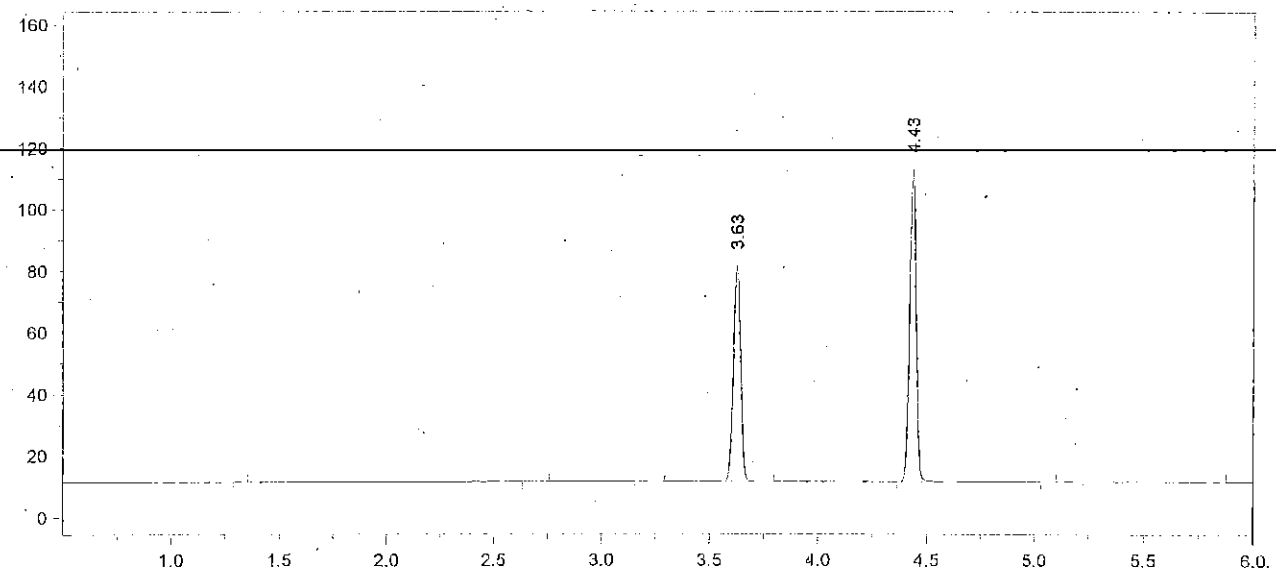
Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL06192014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL06192014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL06192014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL06192014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL06192014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL06192014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL06192014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL06192014.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL06192014.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL06192014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL06192014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL06192014.0012.raw	Blood Alc temp VFL.MET	V14-1195 A1-1	1.00	1.00
13	VFL06192014.0013.raw	Blood Alc temp VFL.MET	V14-1195 A1-1	1.00	1.00
14	VFL06192014.0014.raw	Blood Alc temp VFL.MET	V14-1197 A1-2	1.00	1.00
15	VFL06192014.0015.raw	Blood Alc temp VFL.MET	V14-1197 A1-2	1.00	1.00
16	VFL06192014.0016.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
17	VFL06192014.0017.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
18	VFL06192014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	VFL06192014.0019.raw	simsoln.met	0.1 RLM	1.00	1.00
20	VFL06192014.0020.raw	simsoln.met	0.1 RLM	1.00	1.00
21	VFL06192014.0021.raw	simsoln.met	0.1 RLM	1.00	1.00
22	VFL06192014.0022.raw	simsoln.met	0.1 RLM	1.00	1.00
23	VFL06192014.0023.raw	simsoln.met	0.1 RLM	1.00	1.00
24	VFL06192014.0024.raw	simsoln.met	0.1 RLM	1.00	1.00
25	VFL06192014.0025.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
26	VFL06192014.0026.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
27	VFL06192014.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	VFL06192014.0028.raw	simsoln.met	0.1 ALB	1.00	1.00
29	VFL06192014.0029.raw	simsoln.met	0.1 ALB	1.00	1.00
30	VFL06192014.0030.raw	simsoln.met	0.1 ALB	1.00	1.00
31	VFL06192014.0031.raw	simsoln.met	0.1 ALB	1.00	1.00
32	VFL06192014.0032.raw	simsoln.met	0.1 ALB	1.00	1.00
33	VFL06192014.0033.raw	simsoln.met	0.1 ALB	1.00	1.00
34	VFL06192014.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL06192014.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
36	VFL06192014.0036.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
37	VFL06192014.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	VFL06192014.0038.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
39	VFL06192014.0039.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
40	VFL06192014.0040.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
41	VFL06192014.0041.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Casework samples not included. RLM 6/20/14

Samples analyzed 6/20/14 within 24 hrs of initial sample prep. RLM 6/20/14

Lot #s:
Internal Standard: IS-03202014
Timing Mix: TMX-08122013
Ethanol Standard: ES-06162014
WB Control: Ciniqa 1212090
AQ Control: Cerilliant FN021111-03
RLM 6/20/14

Chrom Perfect Chromatogram Report

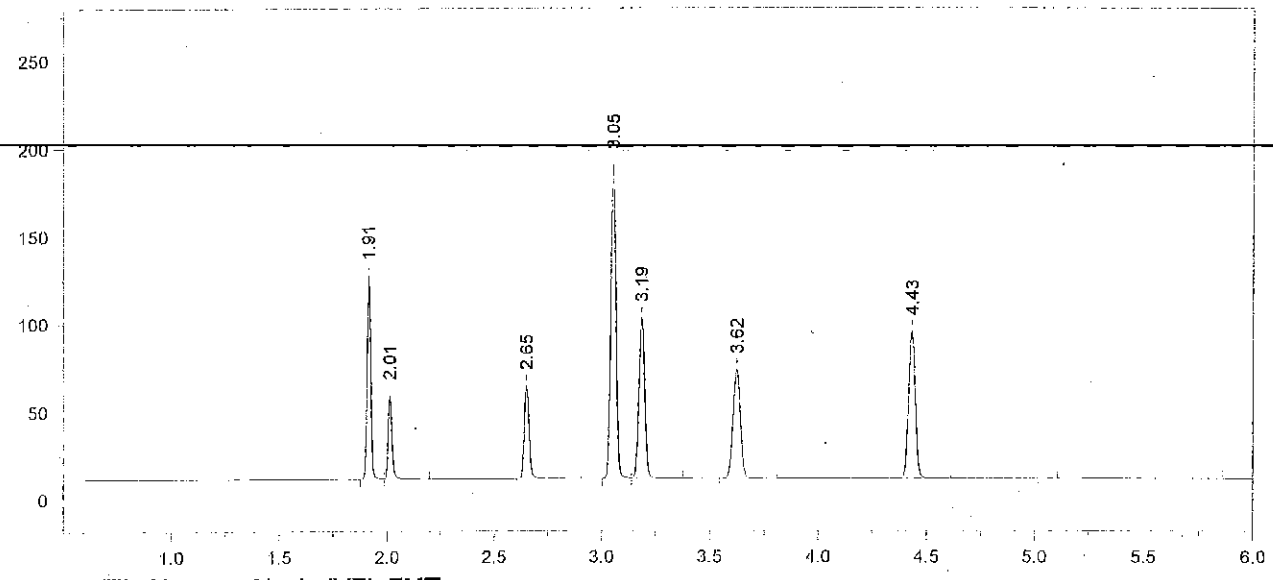


Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 7:53:36 AM
Bound File Name = VFL06192014.0001.RAW
Sample Name = Blank
Date Taken = 6/19/2014 3:55:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	162508	0.9669
5	4.43	n-Propanol	216133	1.0000

14-05-100 4



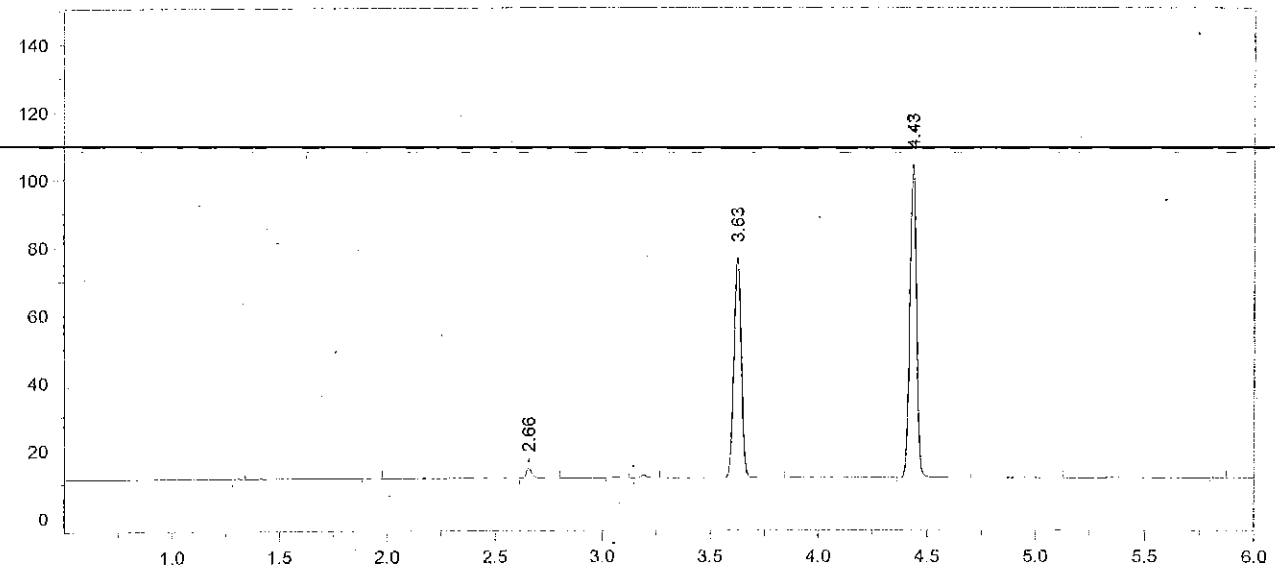
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 7:53:42 AM
Bound File Name = VFL06192014.0002.RAW
Sample Name = TMX
Date Taken = 6/19/2014 4:12:17 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	135285	0.0520
3	2.01	Methanol	60215	0.1370
4	2.65	Ethanol	82959	0.0886
5	3.05	Acetone	307048	0.0940
6	3.19	Isopropanol	171400	0.0850
7	3.62	t-Butanol	143587	1.0356
8	4.43	n-Propanol	178312	1.0000

14-05-100 5 RM

Chrom Perfect Chromatogram Report



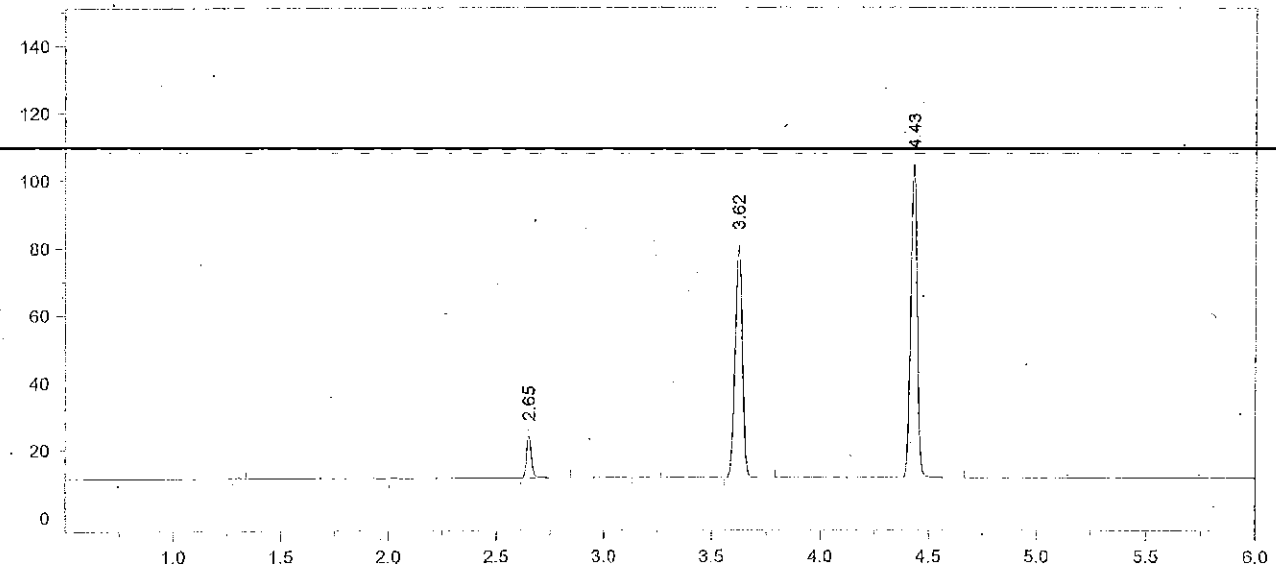
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 7:53:48 AM
Bound File Name = VFL06192014.0003.RAW
Sample Name = STD A
Date Taken = 6/19/2014 4:25:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05341	0.0051
6	3.63	t-Butanol	150160	0.9767
7	4.43	n-Propanol	197707	1.0000

14-05-100 6

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

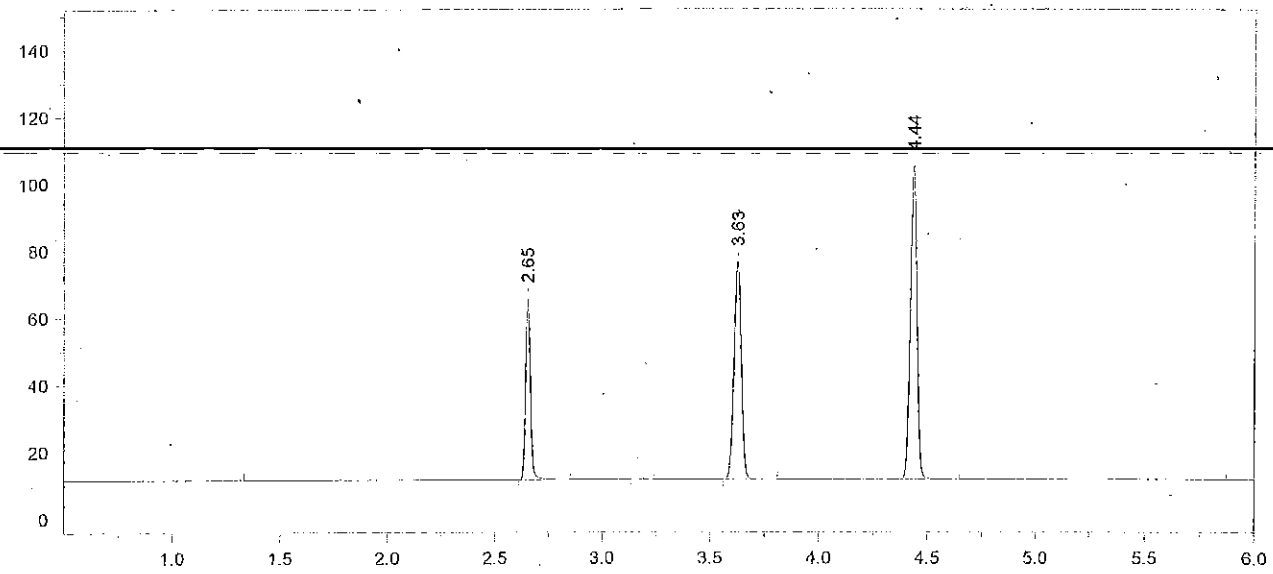
Today's Date = 6/20/2014
Today's Time = 7:53:55 AM
Bound File Name = VFL06192014.0004.RAW
Sample Name = STD B
Date Taken = 6/19/2014 4:42:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	19888	0.0191*
4	3.62	t-Butanol	159318	1.0335
5	4.43	n-Propanol	198237	1.0000

14-05-100

7

Chrom Perfect Chromatogram Report



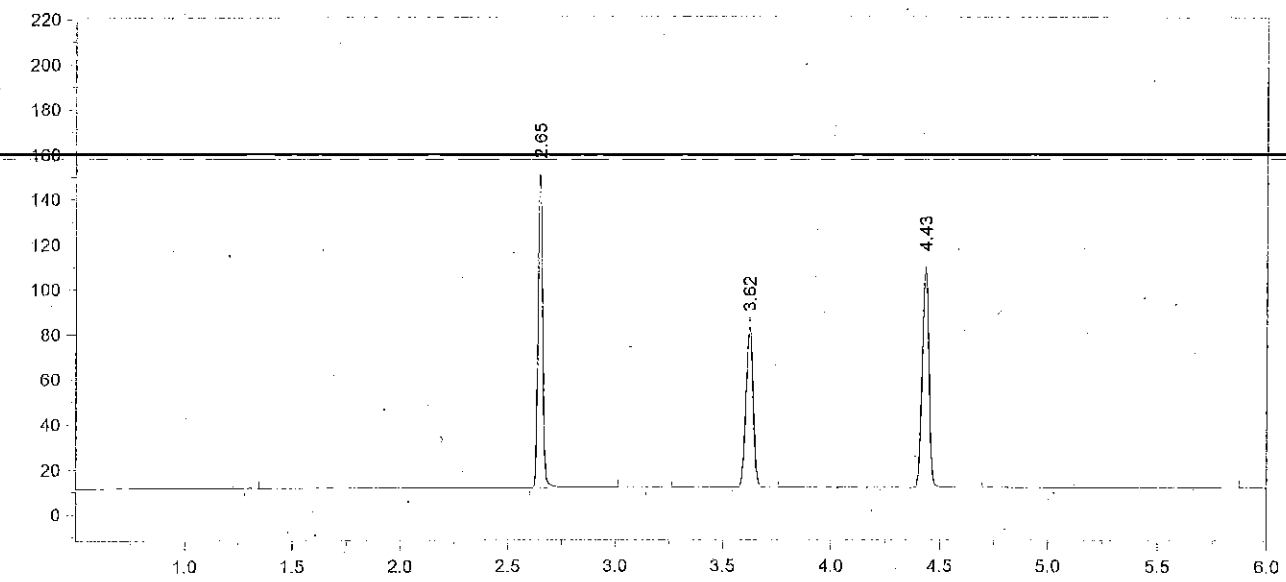
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 7:54:01 AM
Bound File Name = VFL06192014.0005.RAW
Sample Name = STD C
Date Taken = 6/19/2014 4:57:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83893	0.0804 *
4	3.63	t-Butanol	150382	0.9729
5	4.44	n-Propanol	198774	1.0000

14-05-100 8

Chrom Perfect Chromatogram Report



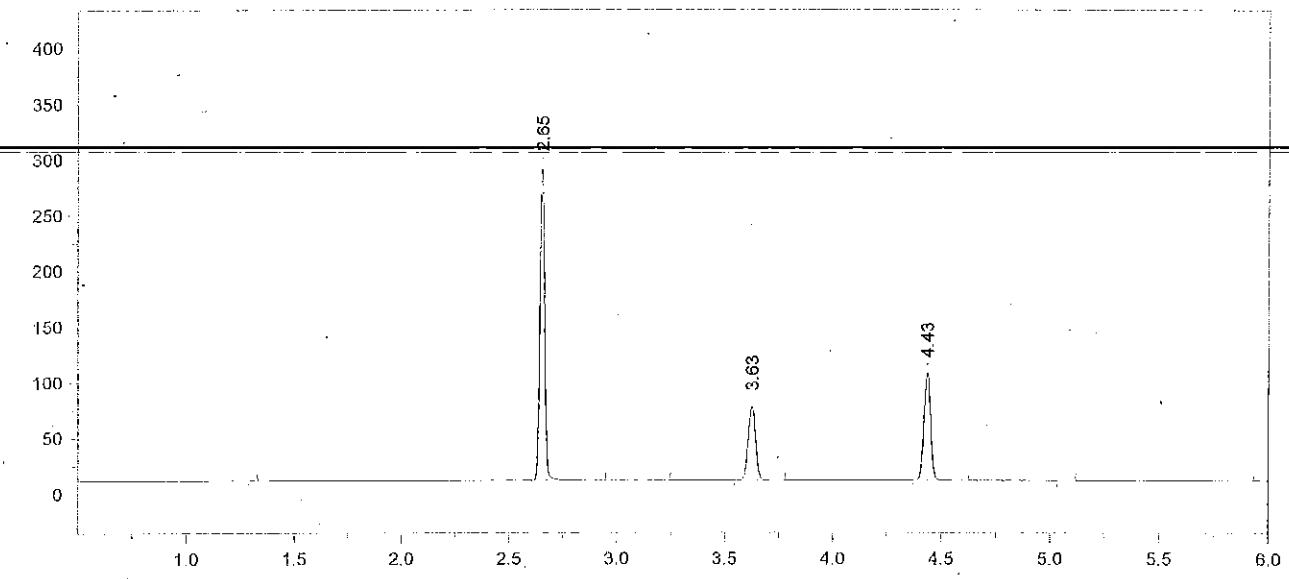
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 7:54:07 AM
Bound File Name = VFL06192014.0006.RAW
Sample Name = STD D
Date Taken = 6/19/2014 5:11:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	213539	0.1955 *
4	3.62	t-Butanol	164540	1.0170
5	4.43	n-Propanol	208063	1.0000

14-05-100 9

Chrom Perfect Chromatogram Report



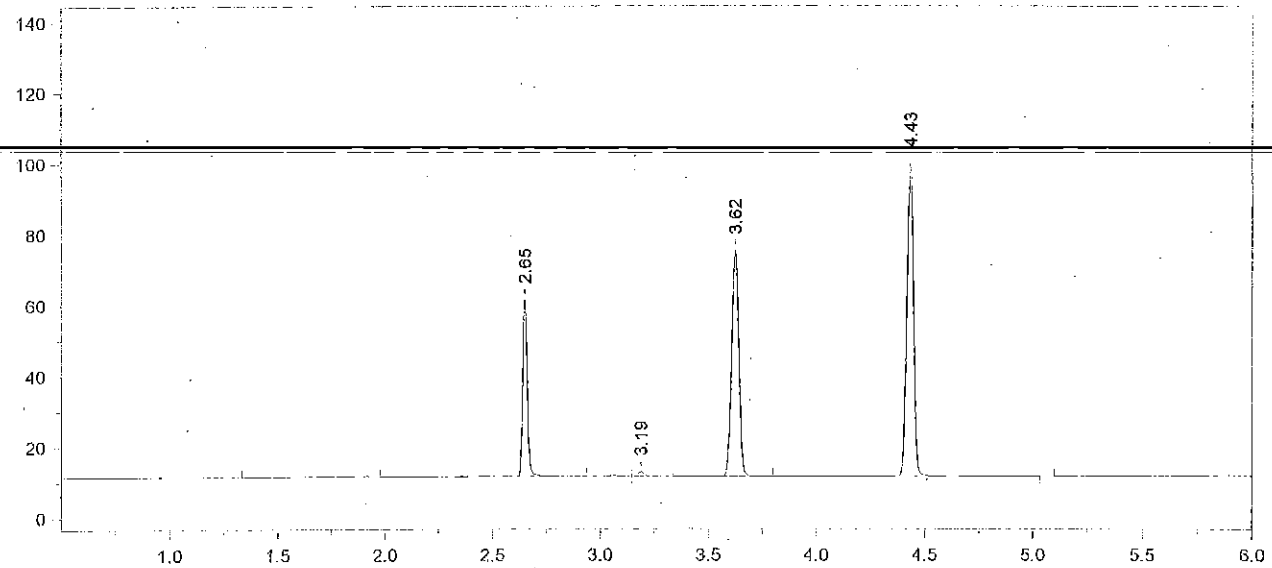
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 7:54:14 AM
Bound File Name = VFL06192014.0007.RAW
Sample Name = STD E
Date Taken = 6/19/2014 5:28:11 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	431805	0.4032 *
4	3.63	t-Butanol	153003	0.9643
5	4.43	n-Propanol	204043	1.0000

14-05-100 10 KLM

Chrom Perfect Chromatogram Report



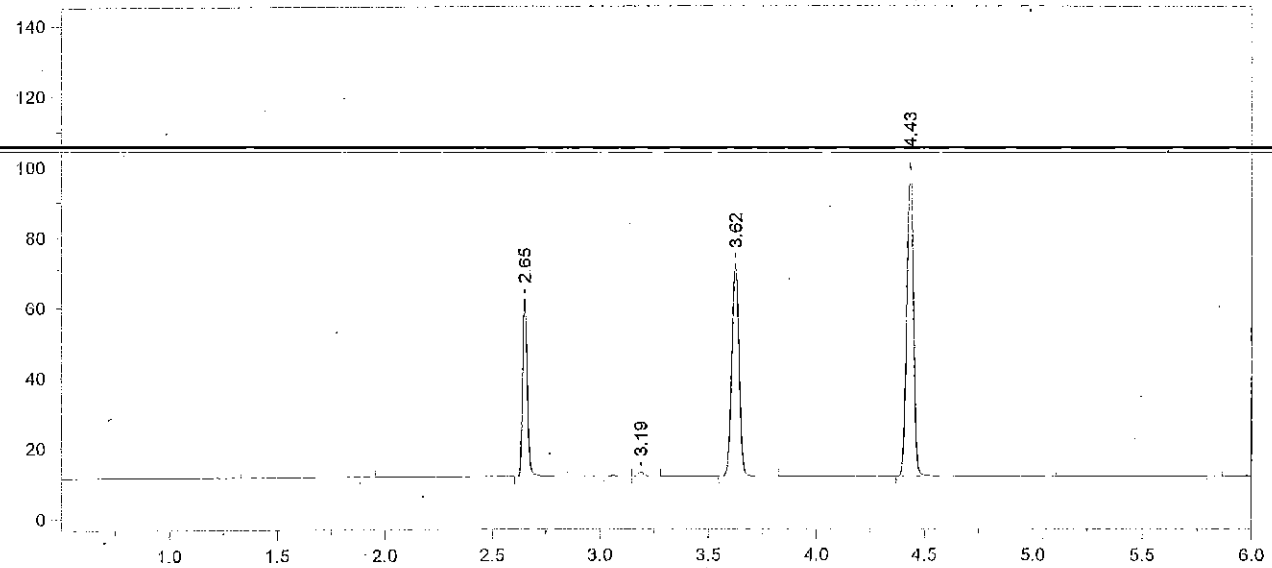
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014
Today's Time = 5:44:09 PM
Bound File Name = VFL06192014.0008.RAW
Sample Name = WB
Date Taken = 6/19/2014 5:44:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	78039	0.0790 *
5	3.19	Isopropanol	02544	<0.004
6	3.62	t-Butanol	148084	1.0119
7	4.43	n-Propanol	188195	1.0000

14-05-100 11

Chrom Perfect Chromatogram Report



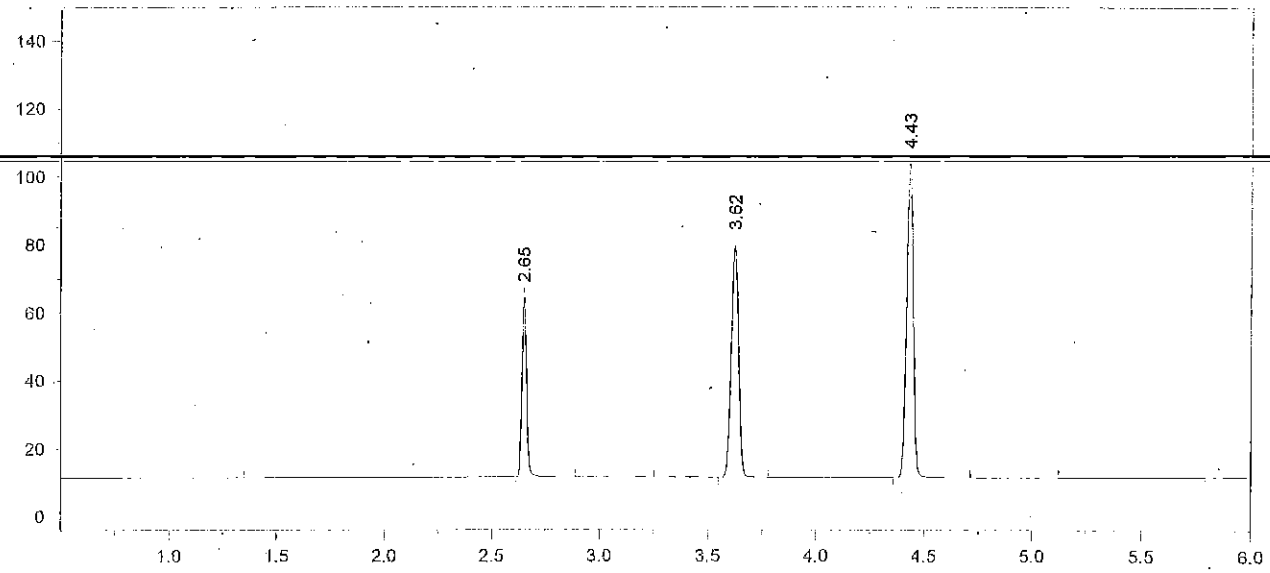
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014
Today's Time = 5:58:56 PM
Bound File Name = VFL06192014.0009.RAW
Sample Name = WB
Date Taken = 6/19/2014 5:58:47 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	78919	0.0794 *
5	3.19	Isopropanol	02353	<0.004
6	3.62	t-Butanol	140229	0.9524
7	4.43	n-Propanol	189346	1.0000

Avg #8 + #9 = 0.079
Target value: 0.080
% recovery = 99%
KLM 6/20/14

14-05-100 12 KLM



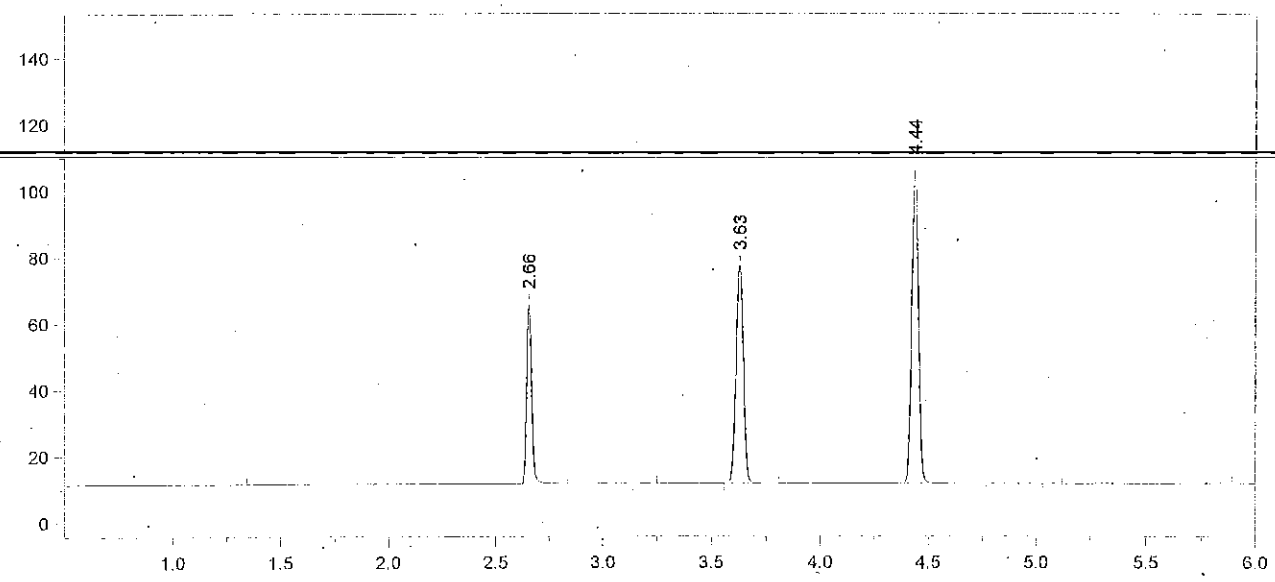
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014 Today's Time = 6:15:29 PM
Bound File Name = VFL06192014.0010.RAW
Sample Name = CCS
Date Taken = 6/19/2014 6:15:26 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81916	0.0793
4	3.62	t-Butanol	157820	1.0313
5	4.43	n-Propanol	196794	1.0000

14-05-100 13

Chrom Perfect Chromatogram Report



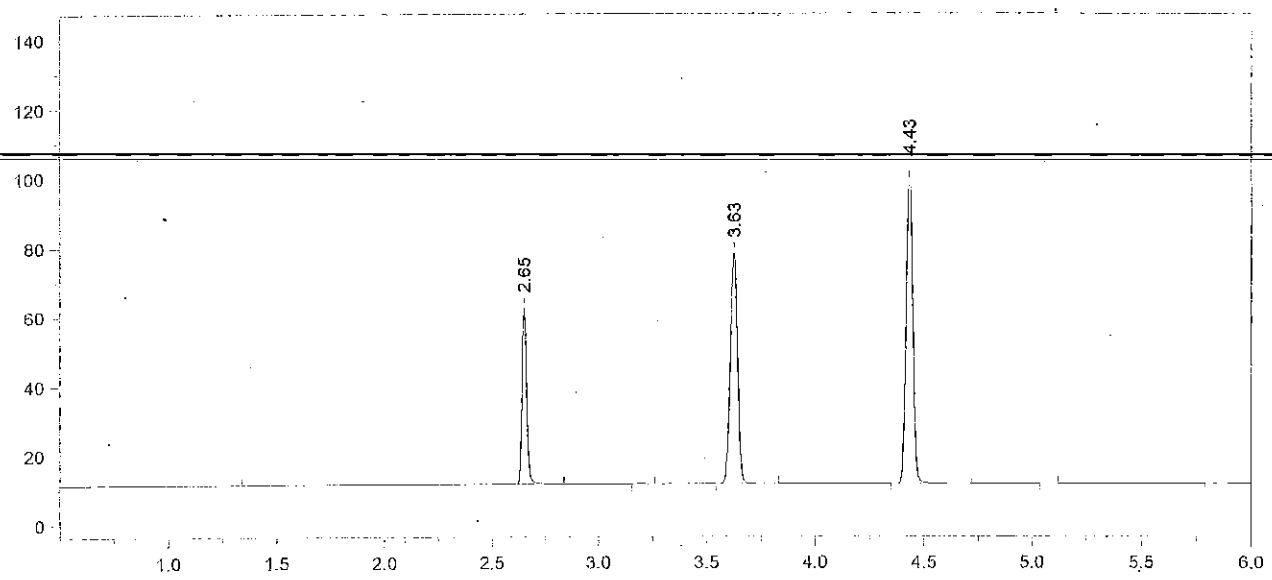
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014
Today's Time = 6:29:35 PM
Bound File Name = VFL06192014.0011.RAW
Sample Name = CCS
Date Taken = 6/19/2014 6:29:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	84543	0.0805
4	3.63	t-Butanol	152099	0.9774
5	4.44	n-Propanol	200114	1.0000

Avg #10 & #11 = 0.080
Rm 6/20/14

14-05-100 14 Rm

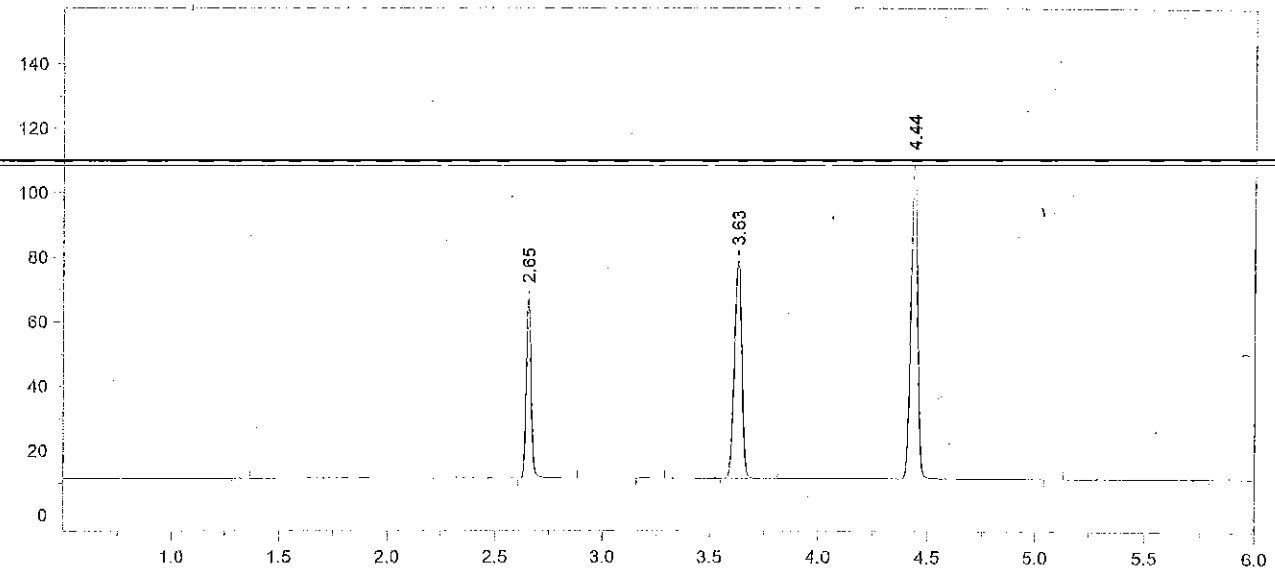


Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014
Today's Time = 7:48:15 PM
Bound File Name = VFL06192014.0016.RAW
Sample Name = CCS
Date Taken = 6/19/2014 7:48:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79329	0.0788
4	3.63	t-Butanol	154228	1.0339
5	4.43	n-Propanol	191832	1.0000

14-05-100 15



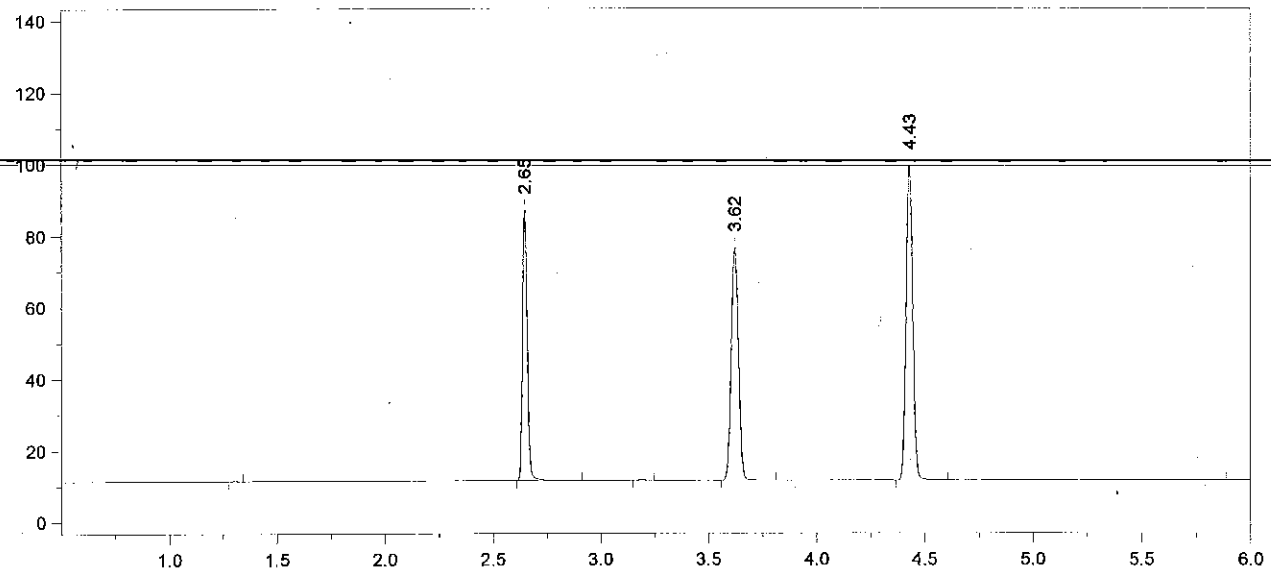
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014 Today's Time = 8:02:18 PM
Bound File Name = VFL06192014.0017.RAW
Sample Name = CCS
Date Taken = 6/19/2014 8:02:09 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87760	0.0812 *
4	3.63	t-Butanol	156239	0.9757
5	4.44	n-Propanol	205929	1.0000

Avg #16 + #17 = 0.080
RLM 6/20/14

14-05-100 16 RLM



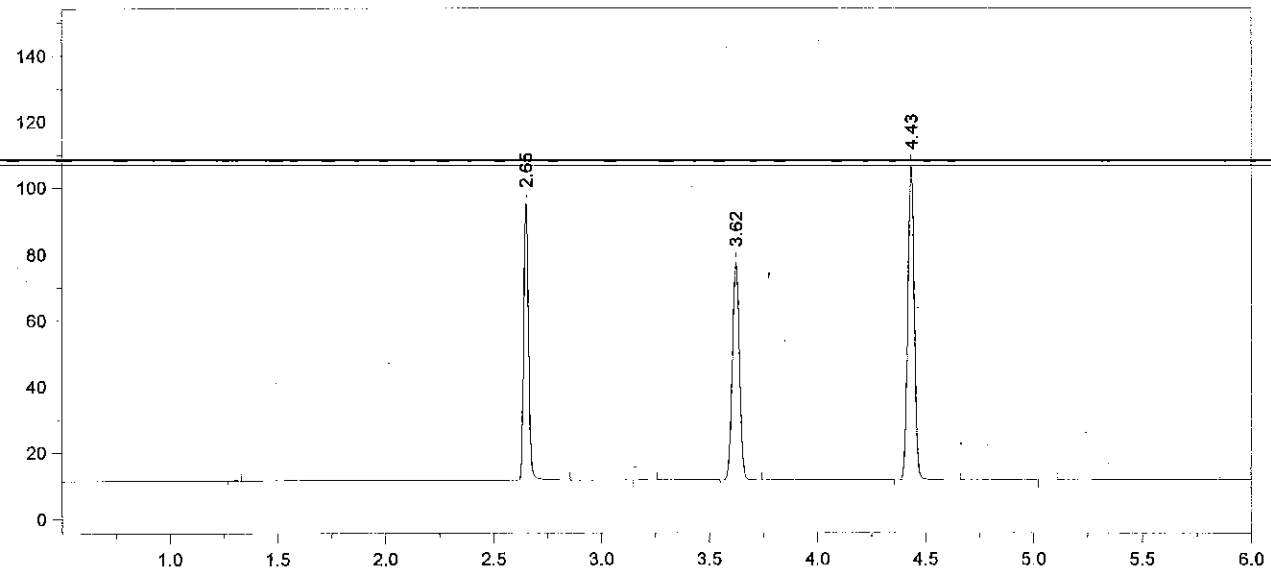
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 8:19:43 PM
Bound File Name = VFL06192014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 8:19:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117404	0.1196	0.0976
4	3.62	t-Butanol	150609	1.0355	0.8452
5	4.43	n-Propanol	187045	1.0000	0.8162

14-05-100 17 RZn

Chrom Perfect Chromatogram Report

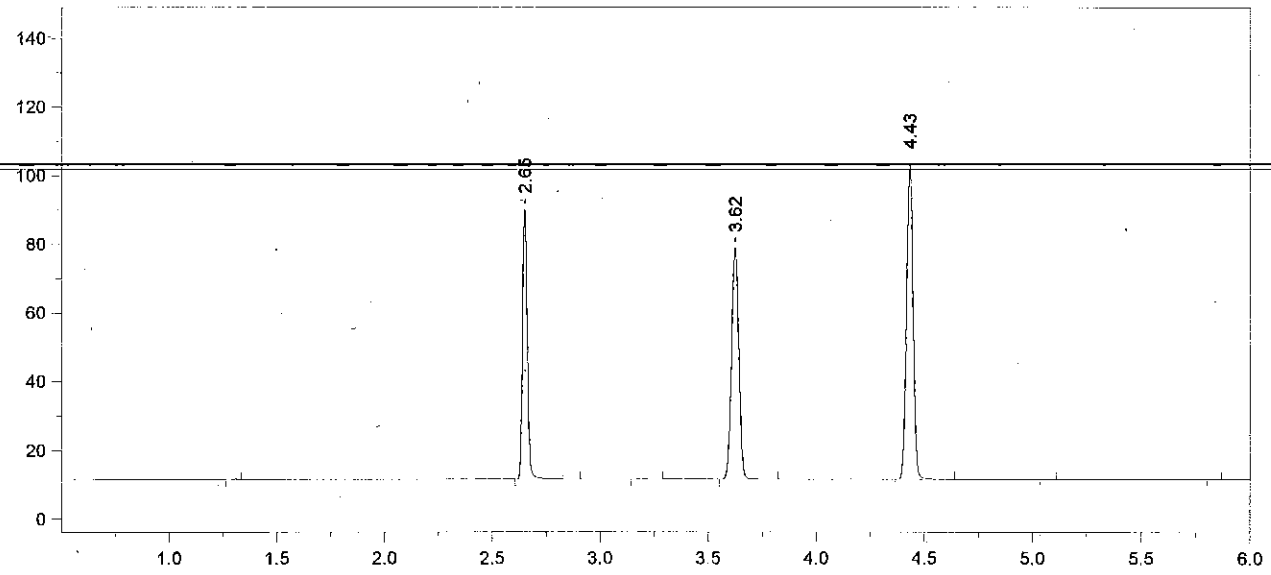


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 8:33:25 PM
Bound File Name = VFL06192014.0019.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 8:33:18 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128304	0.1212	0.0989
4	3.62	t-Butanol	151914	0.9689	0.7908
5	4.43	n-Propanol	201640	1.0000	0.8162

14-05-100 18 KEM



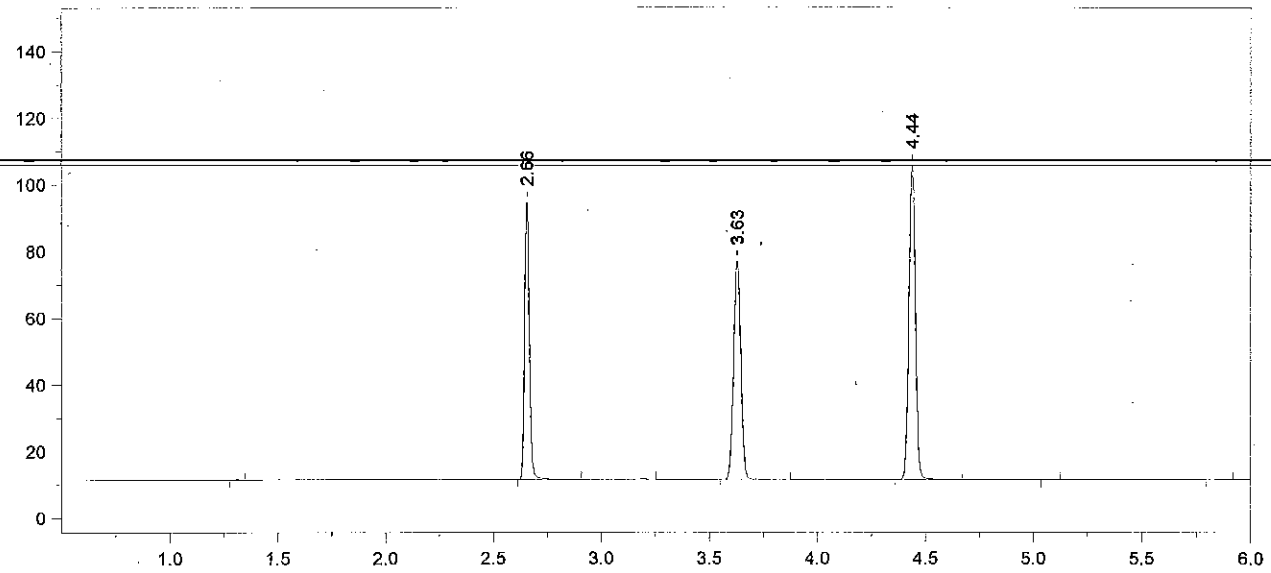
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 8:51:06 PM
Bound File Name = VFL06192014.0020.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 8:51:00 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122018	0.1192	0.0973
4	3.62	t-Butanol	156661	1.0329	0.8430
5	4.43	n-Propanol	195050	1.0000	0.8162

14-05-100 19 KM

Chrom Perfect Chromatogram Report



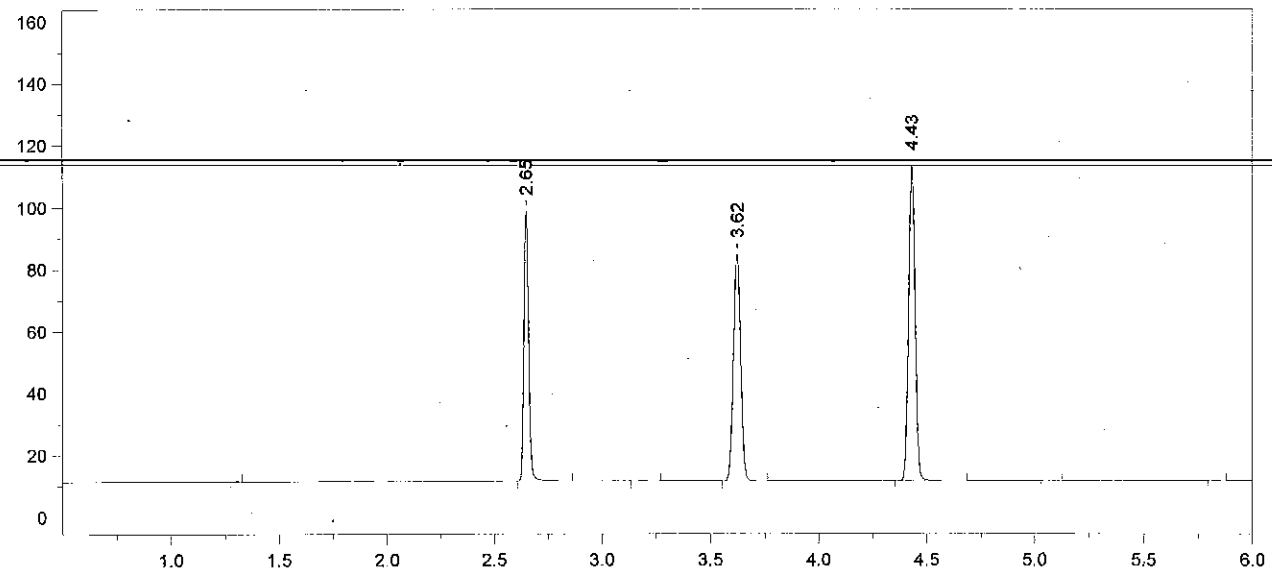
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 9:05:17 PM
Bound File Name = VFL06192014.0021.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 9:05:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	128599	0.1219	0.0995
4	3.63	t-Butanol	151984	0.9728	0.7940
5	4.44	n-Propanol	200914	1.0000	0.8162

14-05-100 20 RLM

Chrom Perfect Chromatogram Report

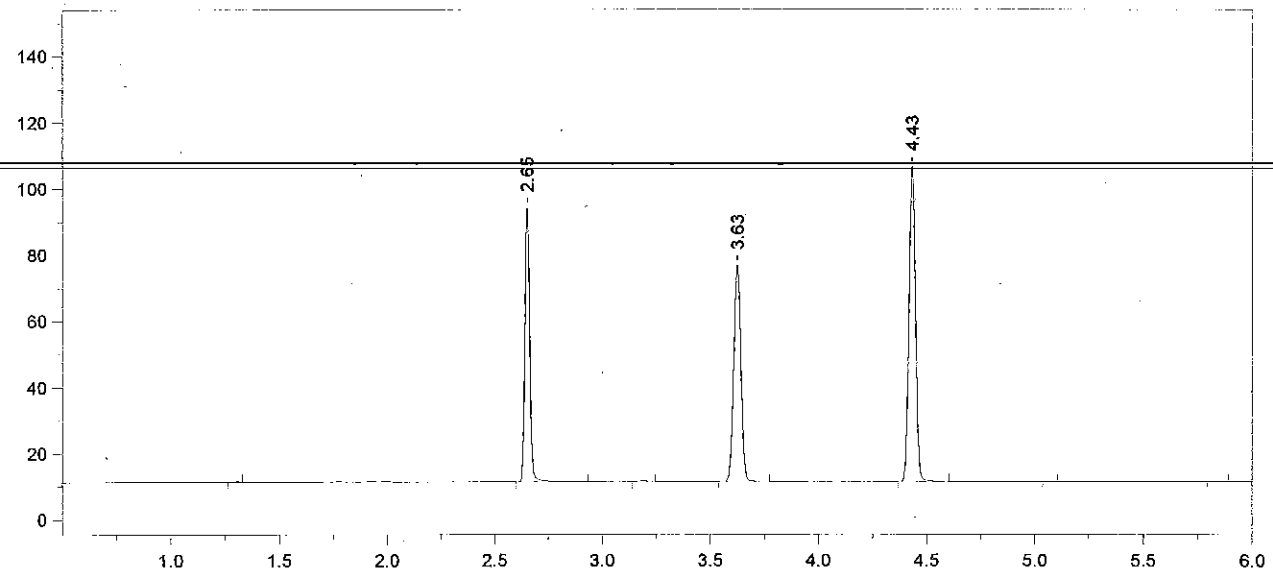


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 9:20:50 PM
Bound File Name = VFL06192014.0022.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 9:20:44 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	134455	0.1186	0.0968
4	3.62	t-Butanol	169992	1.0121	0.8261
5	4.43	n-Propanol	215984	1.0000	0.8162

14-05-100 21

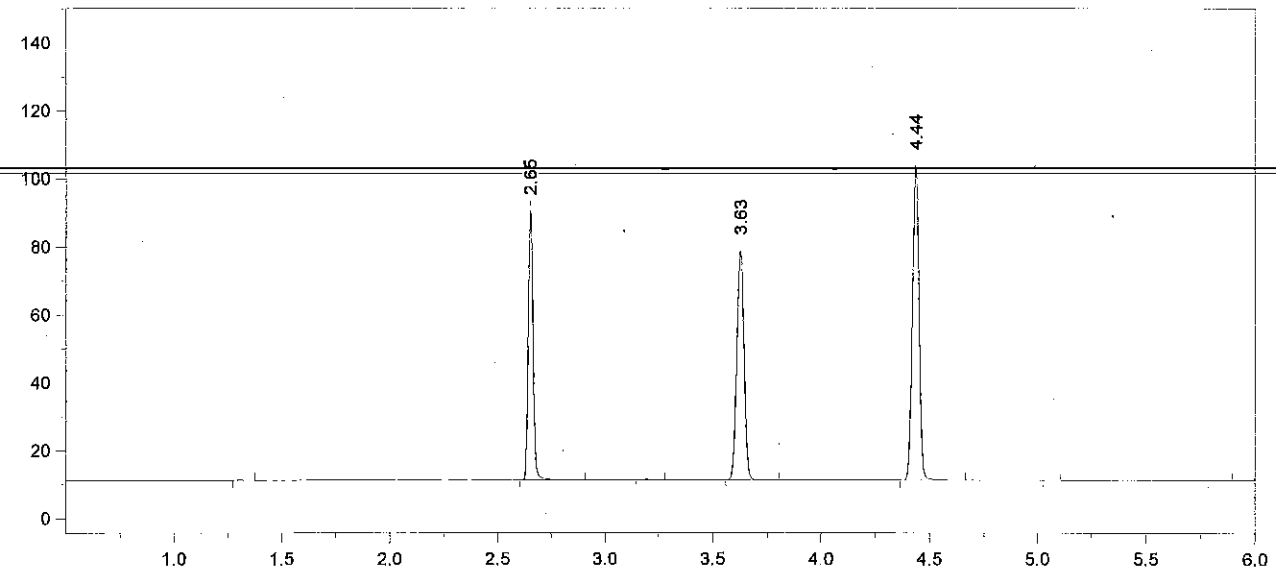


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 9:36:22 PM
Bound File Name = VFL06192014.0023.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 9:36:15 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129469	0.1224	0.0999
4	3.63	t-Butanol	151453	0.9662	0.7886
5	4.43	n-Propanol	201576	1.0000	0.8162

14-05-100 22 RLM



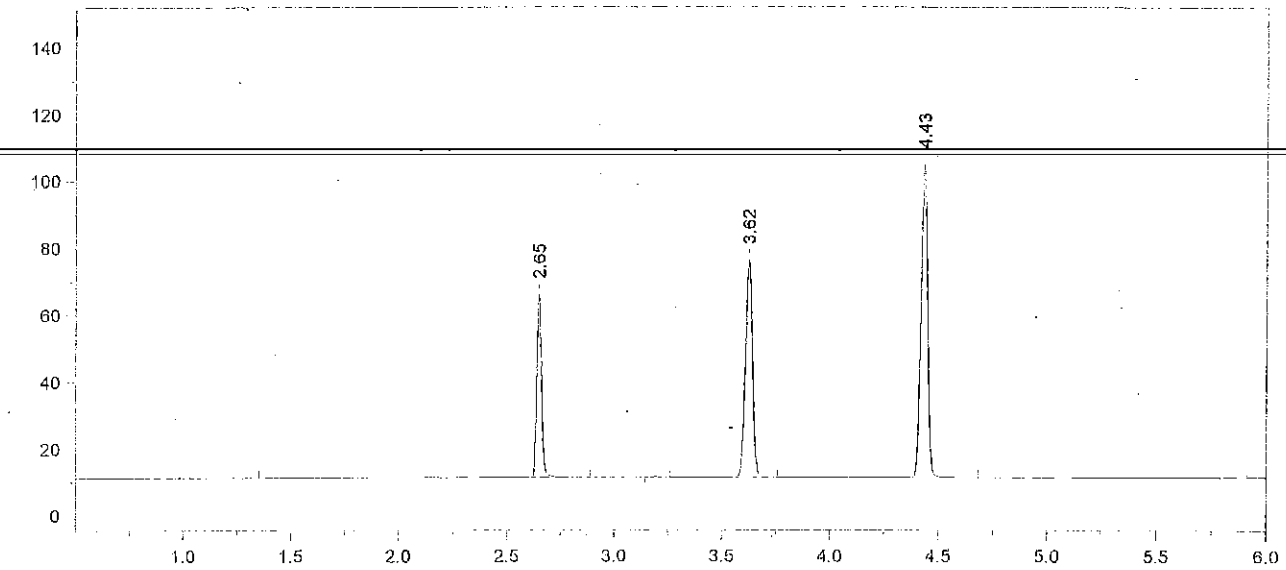
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 9:52:21 PM
Bound File Name = VFL06192014.0024.RAW
Sample Name = 0.1 RLM
Date Taken = 6/19/2014 9:52:16 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122495	0.1189	0.0971
4	3.63	t-Butanol	157141	1.0299	0.8406
5	4.44	n-Propanol	196224	1.0000	0.8162

14-05-100 23 RLM

Chrom Perfect Chromatogram Report



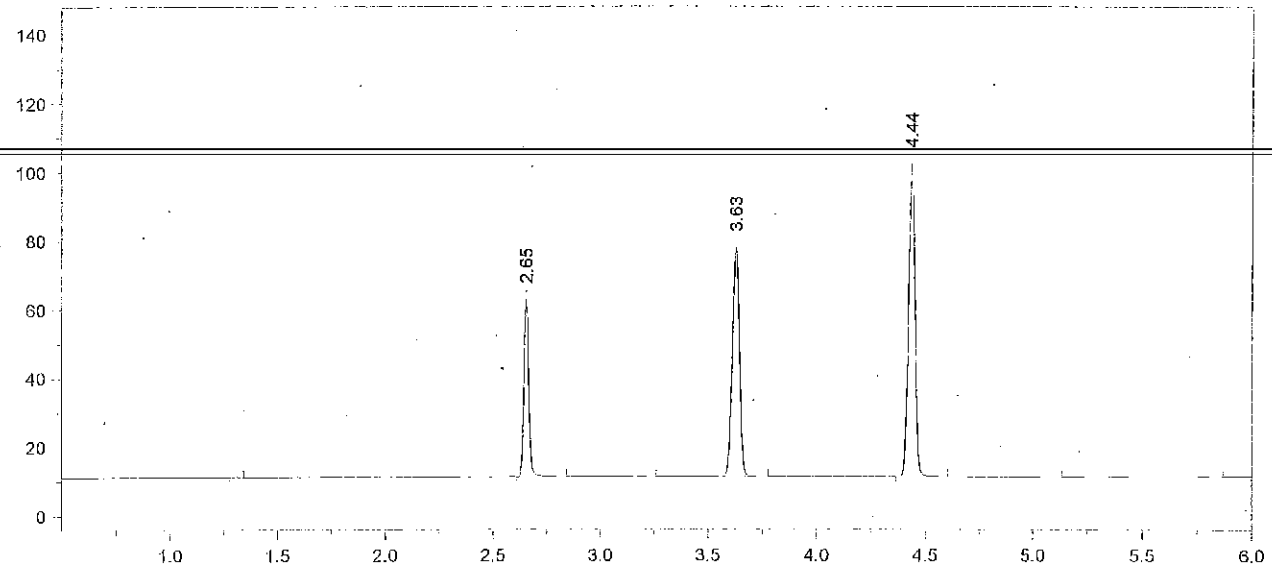
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014
Today's Time = 10:06:56 PM
Bound File Name = VFL06192014.0025.RAW
Sample Name = CCS
Date Taken = 6/19/2014 10:06:47 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85193	0.0817
4	3.62	t-Butanol	150361	0.9732
5	4.43	n-Propanol	198680	1.0000

14-05-100 24

Chrom Perfect Chromatogram Report



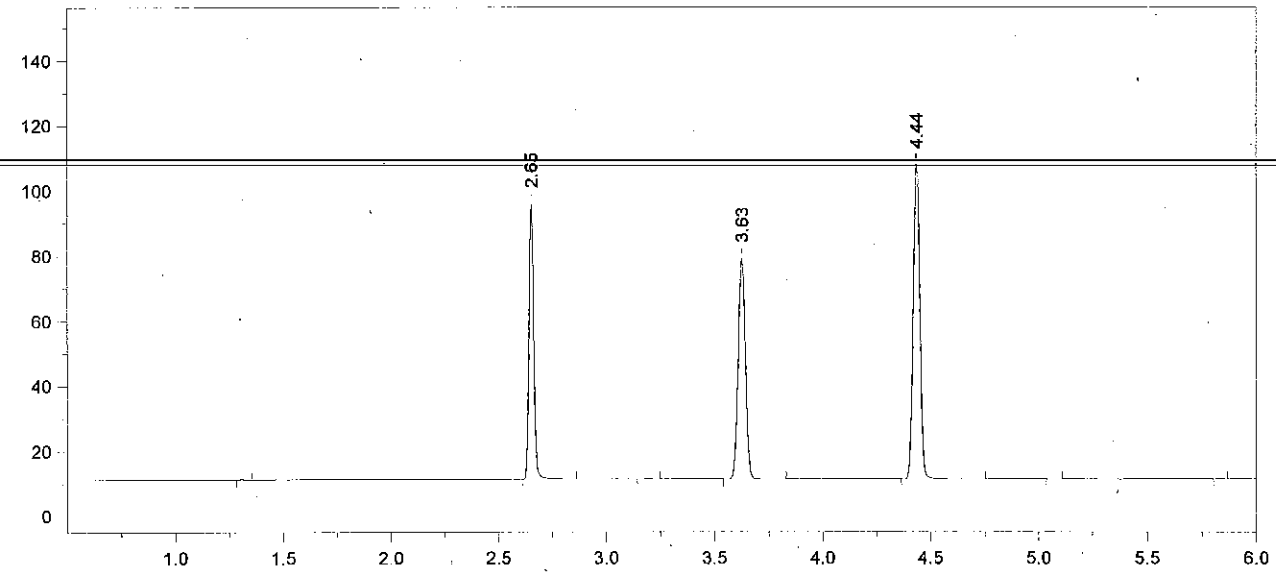
Format File Name = AlcoholVFL.FMT

Today's Date = 6/19/2014
Today's Time = 10:23:47 PM
Bound File Name = VFL06192014.0026.RAW
Sample Name = CCS
Date Taken = 6/19/2014 10:23:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80622	0.0798 *
4	3.63	t-Butanol	154913	1.0346
5	4.44	n-Propanol	192557	1.0000

Avg #25 + #26 = 0.081
RZM 6/20/14

14-05-100 25 RZM

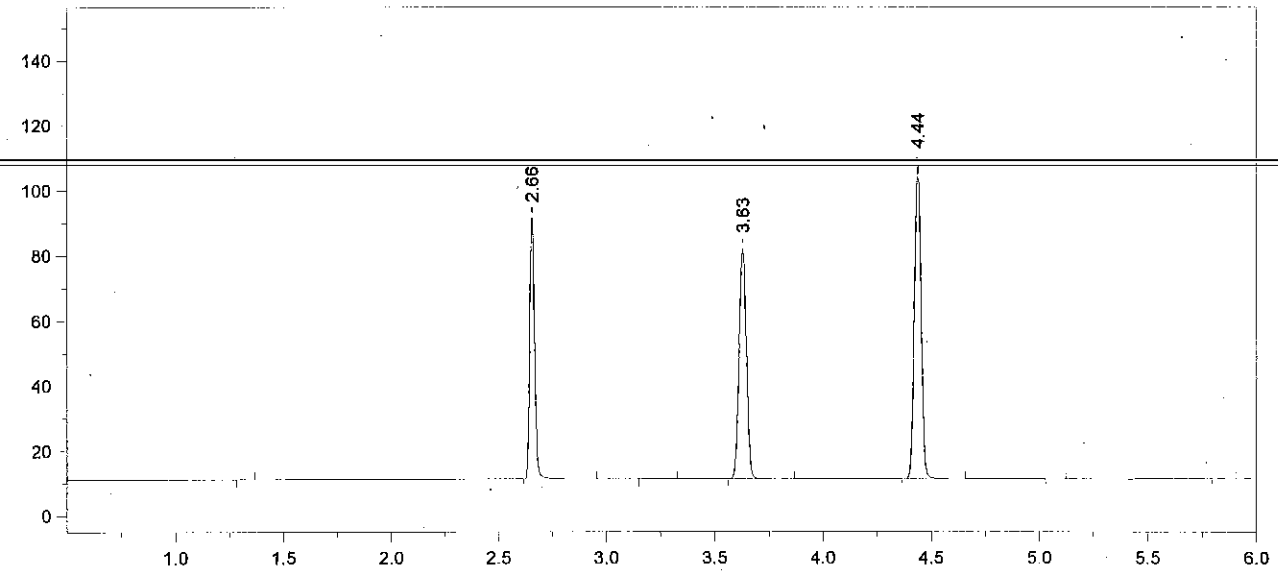


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 10:37:40 PM
Bound File Name = VFL06192014.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 6/19/2014 10:37:36 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130735	0.1201	0.0981
4	3.63	t-Butanol	156632	0.9716	0.7930
5	4.44	n-Propanol	207315	1.0000	0.8162

14-05-100 26 KM

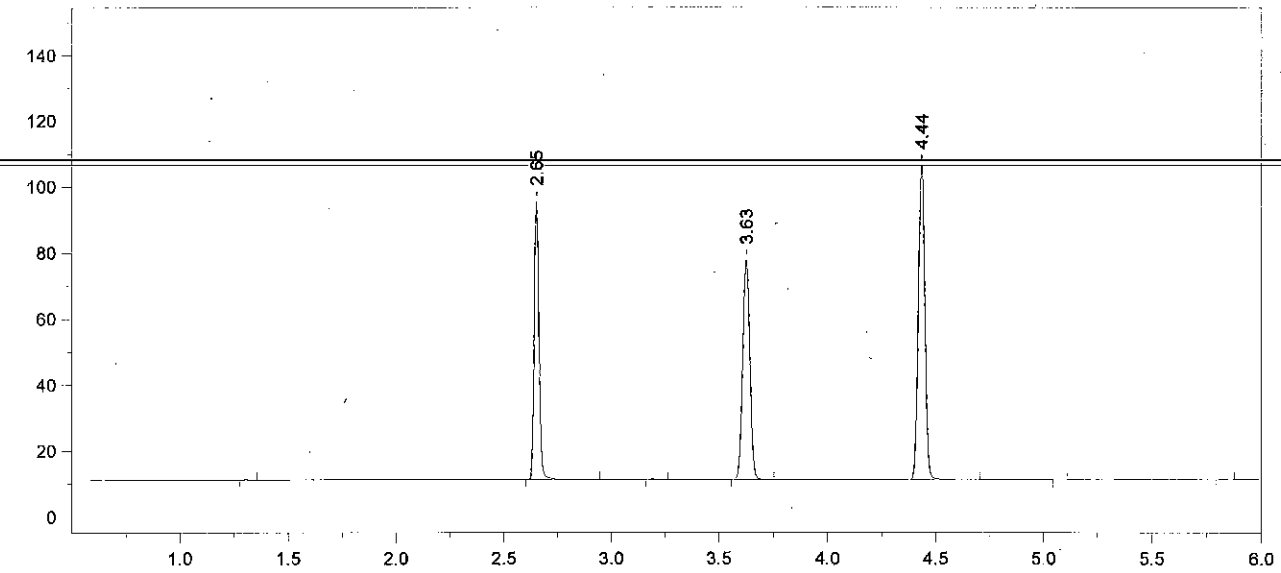


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 10:53:28 PM
Bound File Name = VFL06192014.0028.RAW
Sample Name = 0.1 ALB
Date Taken = 6/19/2014 10:53:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125863	0.1167	0.0953
4	3.63	t-Butanol	164300	1.0284	0.8393
5	4.44	n-Propanol	205462	1.0000	0.8162

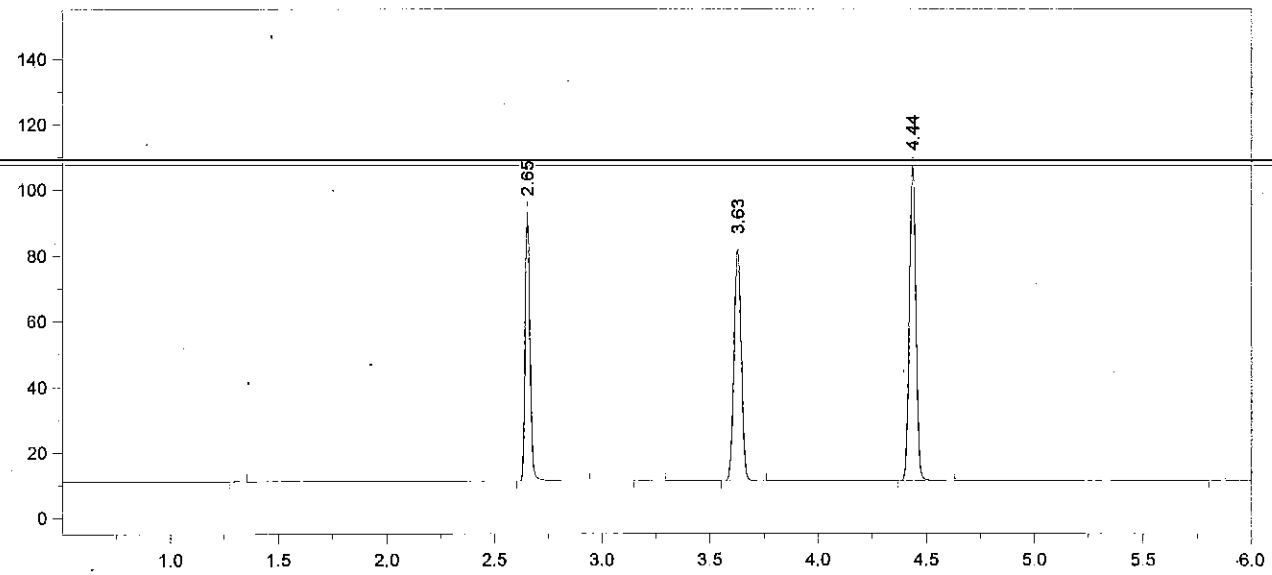
14-05-100 27



Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 11:09:11 PM
Bound File Name = VFL06192014.0029.RAW
Sample Name = 0.1 ALB
Date Taken = 6/19/2014 11:09:02 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130629	0.1221	0.0996
4	3.63	t-Butanol	153941	0.9710	0.7925
5	4.44	n-Propanol	203874	1.0000	0.8162



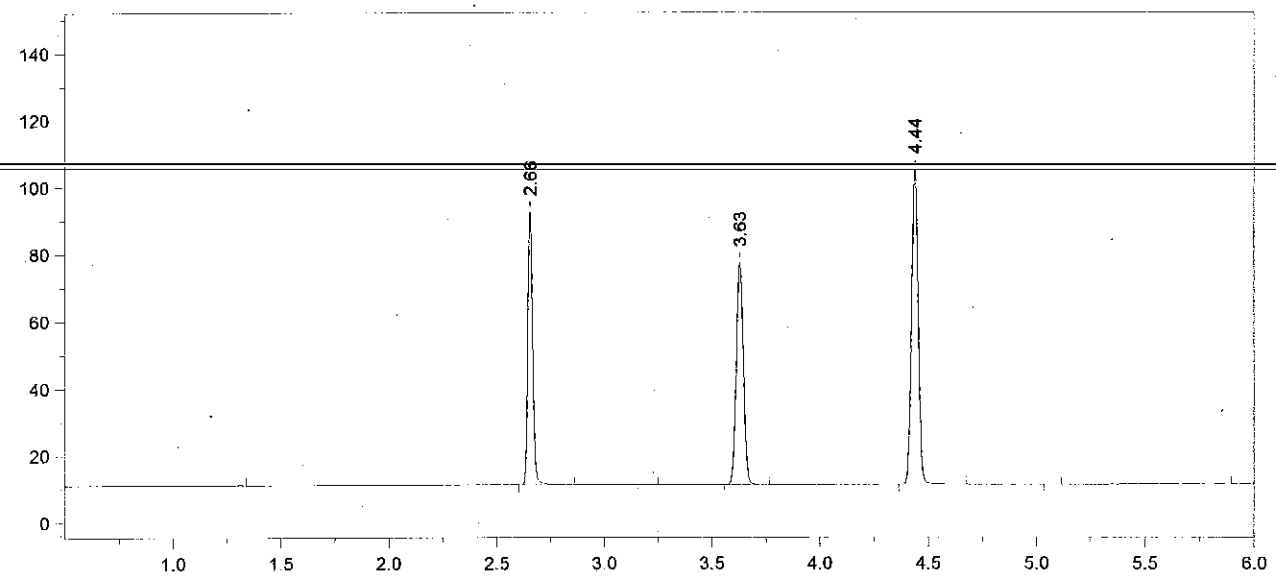
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 11:23:21 PM
Bound File Name = VFL06192014.0030.RAW
Sample Name = 0.1 ALB
Date Taken = 6/19/2014 11:23:16 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127998	0.1199	0.0979
4	3.63	t-Butanol	163284	1.0327	0.8429
5	4.44	n-Propanol	203338	1.0000	0.8162

14-05-100 29

Chrom Perfect Chromatogram Report



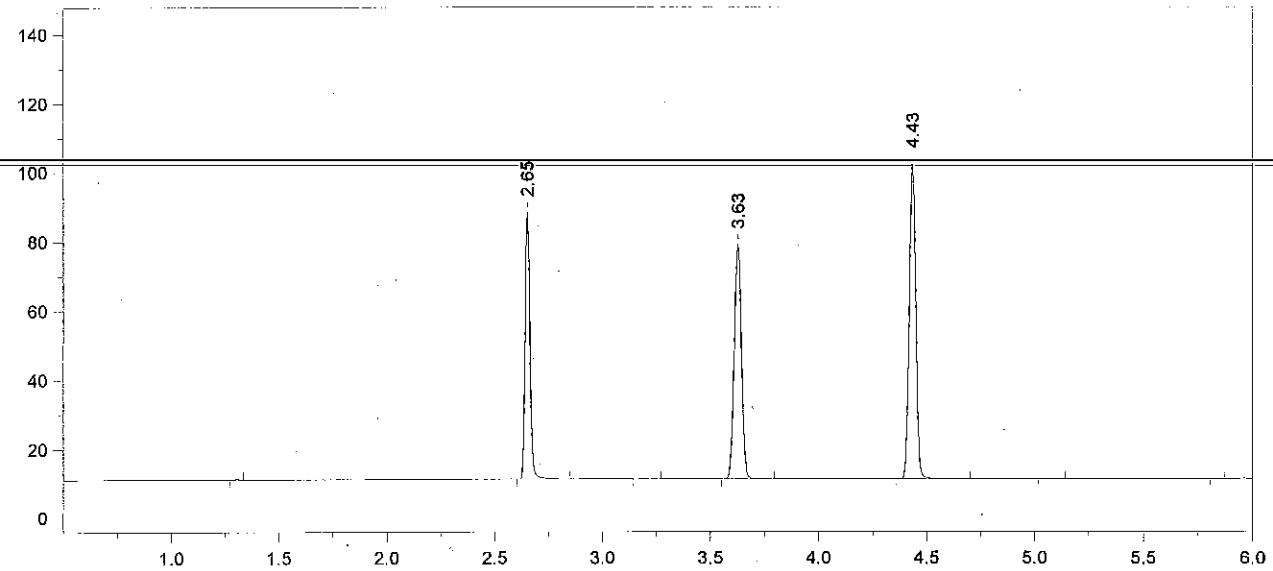
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 11:39:26 PM
Bound File Name = VFL06192014.0031.RAW
Sample Name = 0.1 ALB
Date Taken = 6/19/2014 11:39:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	126199	0.1204	0.0983
4	3.63	t-Butanol	153143	0.9861	0.8048
5	4.44	n-Propanol	199723	1.0000	0.8162

14-05-100 30

Chrom Perfect Chromatogram Report

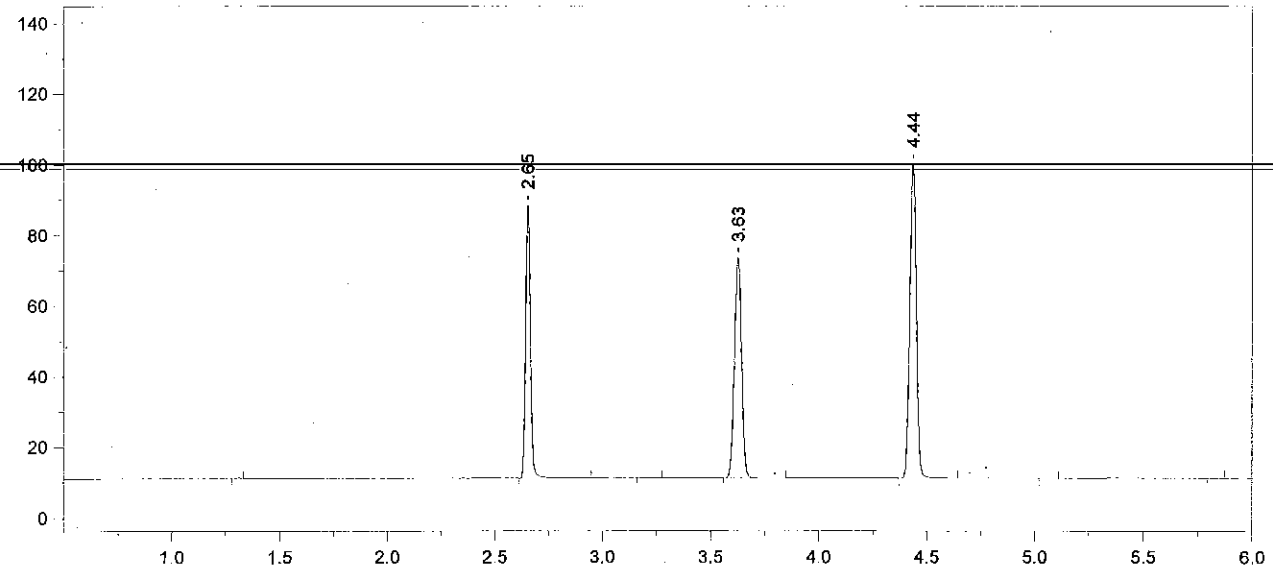


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/19/2014 Today's Time = 11:55:29 PM
Bound File Name = VFL06192014.0032.RAW
Sample Name = 0.1 ALB
Date Taken = 6/19/2014 11:55:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	119384	0.1173	0.0957
4	3.63	t-Butanol	157089	1.0416	0.8502
5	4.43	n-Propanol	193944	1.0000	0.8162

14-05-100 31

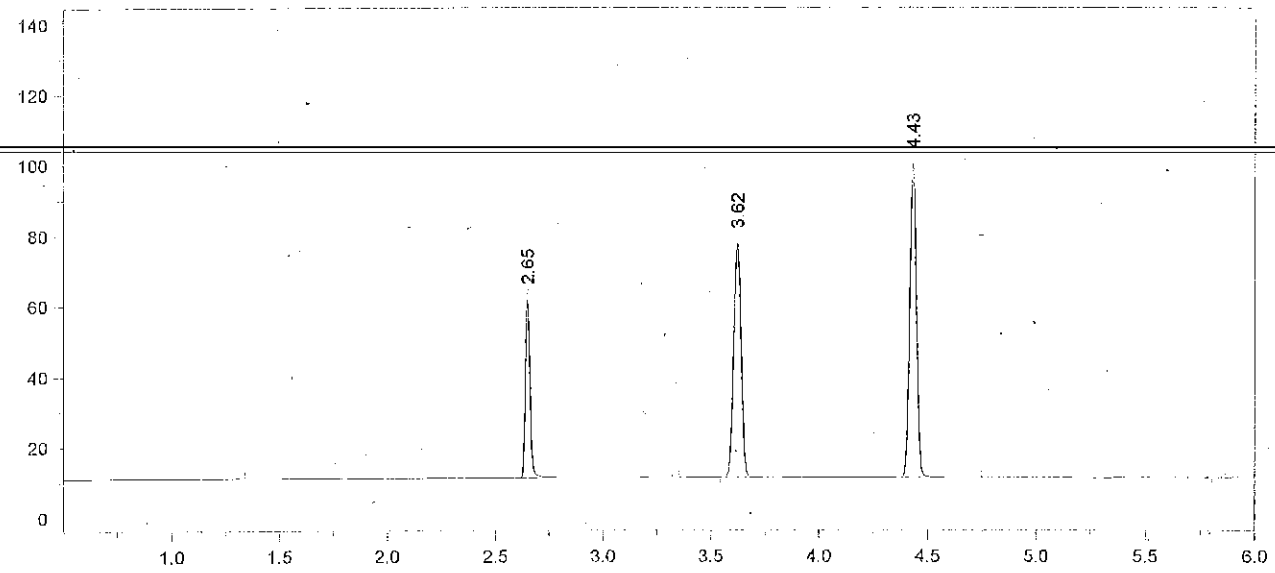


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/20/2014
Today's Time = 12:09:39 AM
Bound File Name = VFL06192014.0033.RAW
Sample Name = 0.1 ALB
Date Taken = 6/20/2014 12:09:33 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120234	0.1212	0.0989
4	3.63	t-Butanol	145005	0.9865	0.8052
5	4.44	n-Propanol	189033	1.0000	0.8162

14-05-100 32

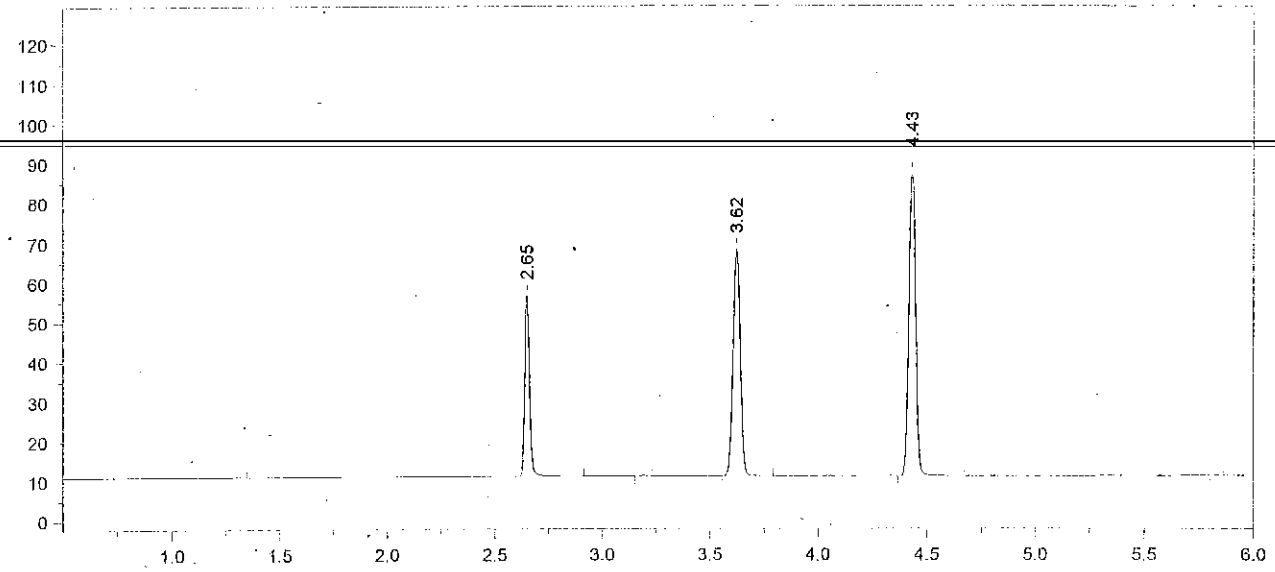


Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 12:27:02 AM
Bound File Name = VFL06192014.0034.RAW
Sample Name = CCS
Date Taken = 6/20/2014 12:26:55 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79043	0.0795 *
4	3.62	t-Butanol	153640	1.0430
5	4.43	n-Propanol	189434	1.0000

14-05-100 33 KM



Format File Name = AlcoholVFL.FMT

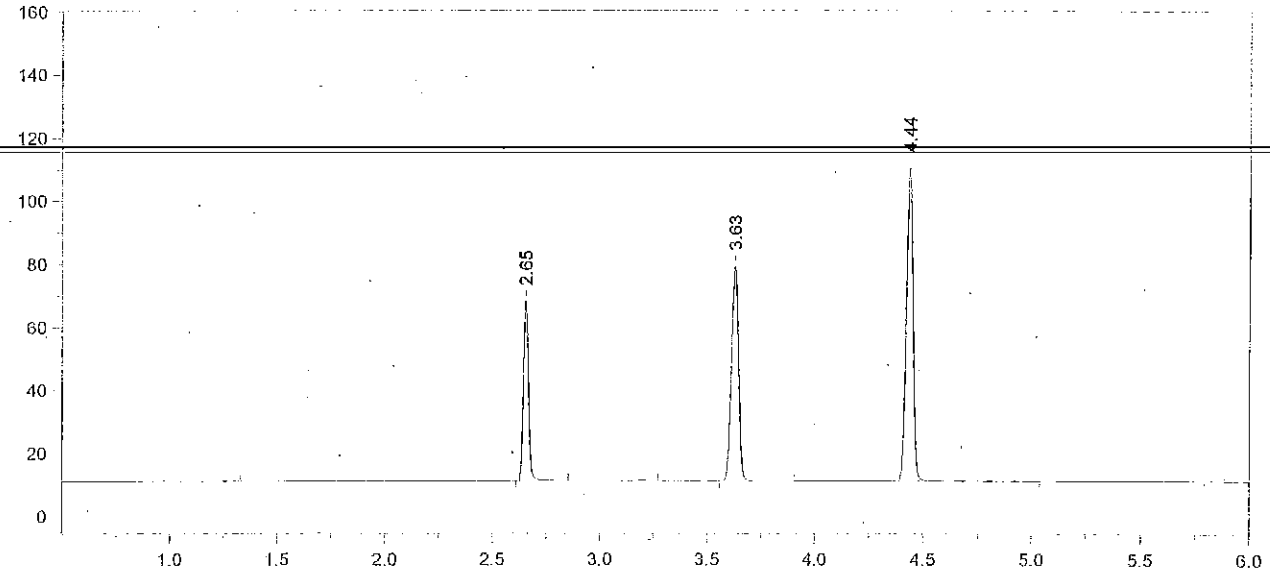
Today's Date = 6/20/2014
Today's Time = 12:40:50 AM
Bound File Name = VFL06192014.0035.RAW
Sample Name = CCS
Date Taken = 6/20/2014 12:40:45 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	71244	0.0808 *
4	3.62	t-Butanol	132372	1.0131
5	4.43	n-Propanol	168028	1.0000

Avg # 34 + #35 = 0.080
RZM 6/20/14

14-05-100 34 RZM

Chrom Perfect Chromatogram Report



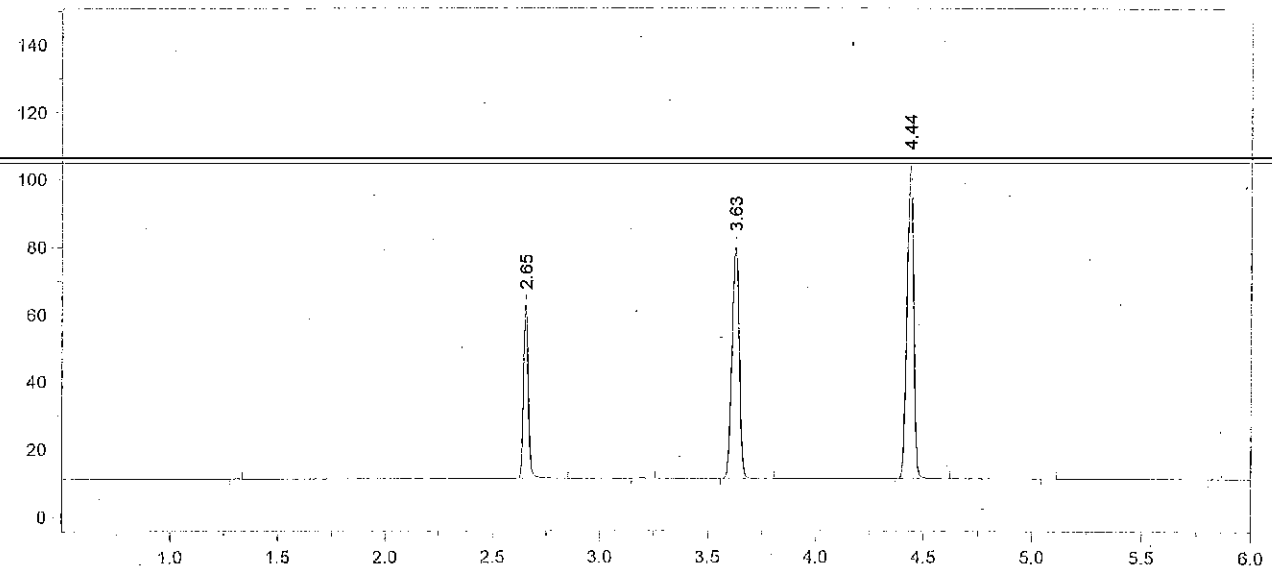
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 9:46:10 AM
Bound File Name = VFL06192014.0036.RAW
Sample Name = CCS
Date Taken = 6/20/2014 9:46:04 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89491	0.0810
4	3.63	t-Butanol	158084	0.9655
5	4.44	n-Propanol	210554	1.0000

14-05-100 35

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

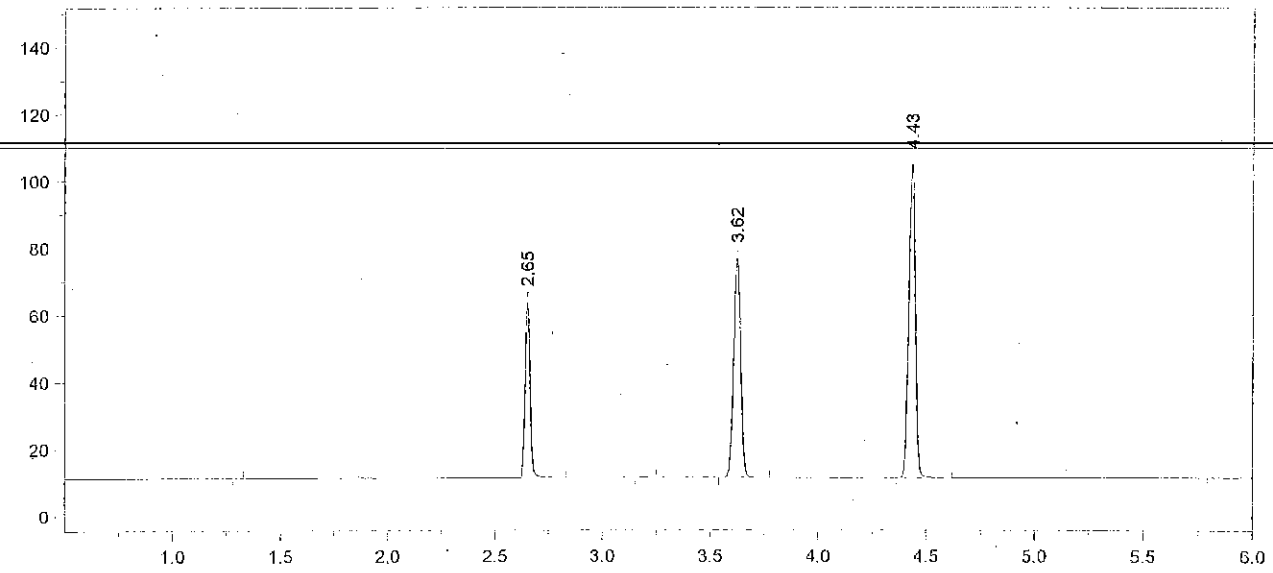
Today's Date = 6/20/2014
Today's Time = 10:03:45 AM
Bound File Name = VFL06192014.0037.RAW
Sample Name = CCS
Date Taken = 6/20/2014 10:03:35 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80078	0.0775 *
4	3.63	t-Butanol	158988	1.0390
5	4.44	n-Propanol	196781	1.0000

Avg # 36 + # 37 = 0.079
RZM 6/20/14

14-3 14.05-100 36 RZM
RZM 6/25/14

Chrom Perfect Chromatogram Report



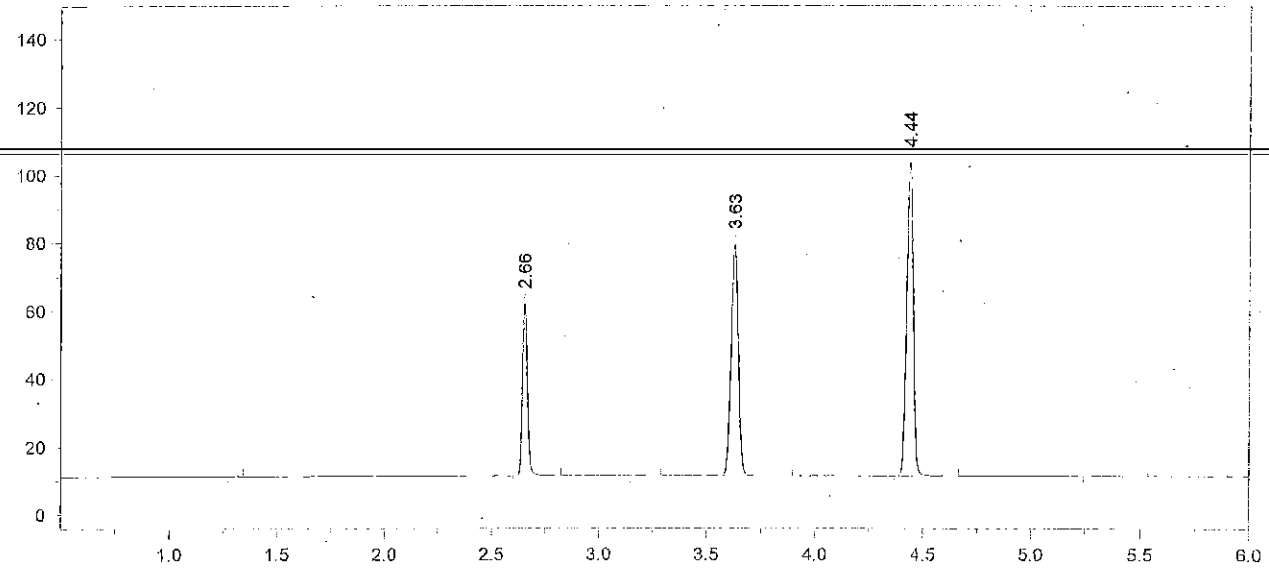
Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 10:17:34 AM
Bound File Name = VFL06192014.0038.RAW
Sample Name = AQ QC
Date Taken = 6/20/2014 10:17:29 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81413	0.0783 *
4	3.62	t-Butanol	151332	0.9825
5	4.43	n-Propanol	198069	1.0000

14-05-100 37 RM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

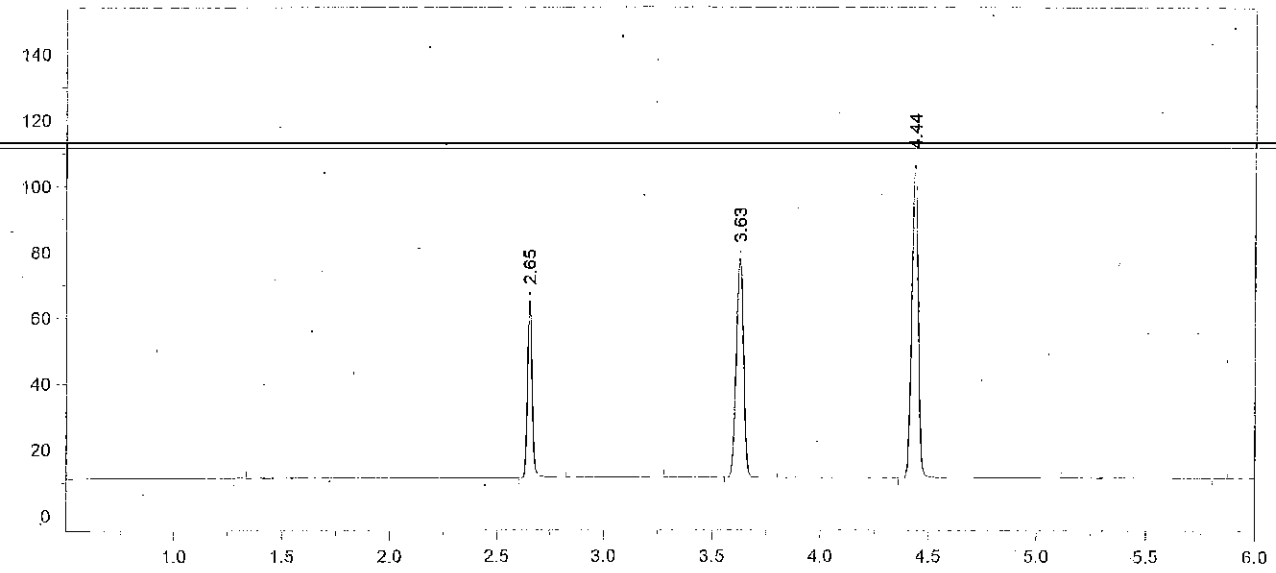
Today's Date = 6/20/2014
Today's Time = 10:35:07 AM
Bound File Name = VFL06192014.0039.RAW
Sample Name = AQ QC
Date Taken = 6/20/2014 10:35:00 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	78699	0.0767 *
4	3.63	t-Butanol	157504	1.0360
5	4.44	n-Propanol	195515	1.0000

Avg #38 + #39 = 0.077
AQ QC: Cerilliant FN021111-03
Target value: 0.080
% recovery = 96 %
RZM 6/20/14

14-05-100 38 RZM

Chrom Perfect Chromatogram Report

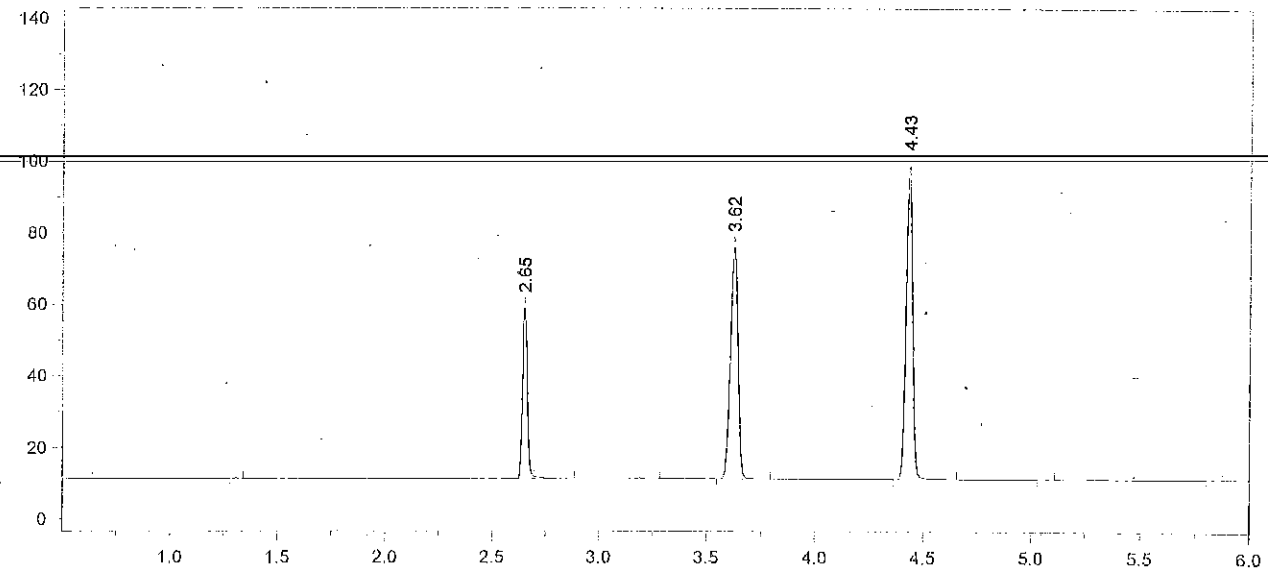


Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 10:48:53 AM
Bound File Name = VFL06192014.0040.RAW
Sample Name = CCS
Date Taken = 6/20/2014 10:48:46 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83453	0.0785 X
4	3.63	t-Butanol	154476	0.9807
5	4.44	n-Propanol	202560	1.0000

14-05-100 39 RZM



Format File Name = AlcoholVFL.FMT

Today's Date = 6/20/2014
Today's Time = 11:06:34 AM
Bound File Name = VFL06192014.0041.RAW
Sample Name = CCS
Date Taken = 6/20/2014 11:06:25 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06192014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74794	0.0769 *
4	3.62	t-Butanol	150162	1.0426
5	4.43	n-Propanol	185223	1.0000

Avg #40 + #41 = 0.078
RLM 6/20/14

14-05-100 40 RLM

File Name: C:\Methods\SIM06242014.CAL
Version: 7

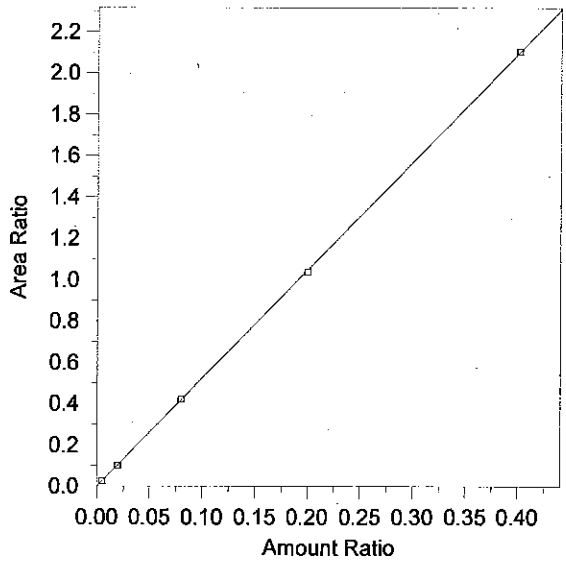
Creator:
Description:
Reason for change:

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

$Y = 5.23607 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999493
Average error: 1.821%
Average CF: 5.25385
RSD: 2.588%

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	5406.048	1103275	4.281	0.0049	2.675517E-02	C:\Alcohol Data\SIM06242014\SIM06242014.0003.BND	6/24/2014 3:38:11 PM
3	0.0197	20519.76	1041612	-2.715	0.0197	0.1003498	C:\Alcohol Data\SIM06242014\SIM06242014.0004.BND	6/24/2014 3:54:14 PM
4	0.0801	85821.33	1071427	0.905	0.0801	0.4232038	C:\Alcohol Data\SIM06242014\SIM06242014.0005.BND	6/24/2014 4:09:41 PM
5	0.1998	199688.1	999439.9	-0.988	0.1998	1.035834	C:\Alcohol Data\SIM06242014\SIM06242014.0006.BND	6/24/2014 4:25:52 PM
6	0.4011	421705.5	1051373	0.215	0.4011	2.104701	C:\Alcohol Data\SIM06242014\SIM06242014.0007.BND	6/24/2014 4:39:54 PM

14-05-100 41

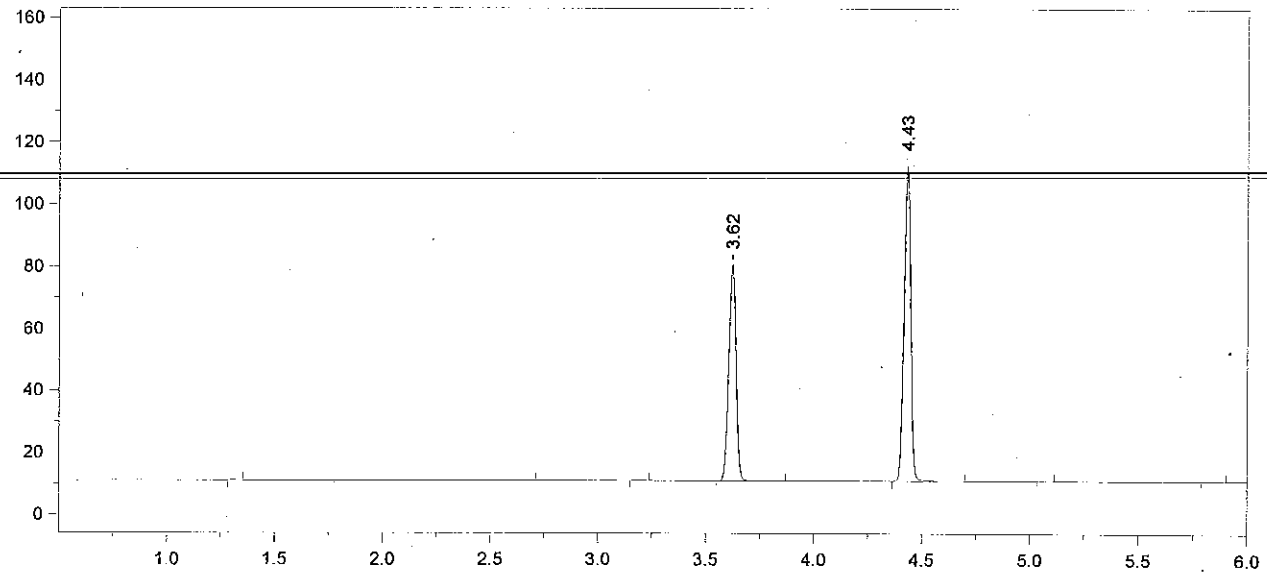
File Name = C:\Alcohol Data\SIM06242014\SIM06242014.SEQ
Version = 1
File Date = 6/24/2014 2:29:33 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM06242014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM06242014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM06242014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM06242014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM06242014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM06242014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM06242014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM06242014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM06242014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM06242014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM06242014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM06242014.0012.raw	simsoln.met	RLM 0.1	1.00	1.00
13	SIM06242014.0013.raw	simsoln.met	RLM 0.1	1.00	1.00
14	SIM06242014.0014.raw	simsoln.met	RLM 0.1	1.00	1.00
15	SIM06242014.0015.raw	simsoln.met	RLM 0.1	1.00	1.00
16	SIM06242014.0016.raw	simsoln.met	RLM 0.1	1.00	1.00
17	SIM06242014.0017.raw	simsoln.met	RLM 0.1	1.00	1.00
18	SIM06242014.0018.raw	simsoln.met	RLM 0.1	1.00	1.00
19	SIM06242014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM06242014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM06242014.0021.raw	simsoln.met	ALB 0.1	1.00	1.00
22	SIM06242014.0022.raw	simsoln.met	ALB 0.1	1.00	1.00
23	SIM06242014.0023.raw	simsoln.met	ALB 0.1	1.00	1.00
24	SIM06242014.0024.raw	simsoln.met	ALB 0.1	1.00	1.00
25	SIM06242014.0025.raw	simsoln.met	ALB 0.1	1.00	1.00
26	SIM06242014.0026.raw	simsoln.met	ALB 0.1	1.00	1.00
27	SIM06242014.0027.raw	simsoln.met	ALB 0.1	1.00	1.00
28	SIM06242014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM06242014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	SIM06242014.0030.raw	Blood Alc VAL.MET	Blank	1.00	1.00
31	SIM06242014.0031.raw	Blood Alc VAL.MET	TMX	1.00	1.00
32	SIM06242014.0032.raw	Blood Alc VAL.MET	STD A	1.00	1.00
33	SIM06242014.0033.raw	Blood Alc VAL.MET	STD B	1.00	1.00
34	SIM06242014.0034.raw	Blood Alc VAL.MET	STD C	1.00	1.00
35	SIM06242014.0035.raw	Blood Alc VAL.MET	STD D	1.00	1.00
36	SIM06242014.0036.raw	Blood Alc VAL.MET	STD E	1.00	1.00
37	SIM06242014.0037.raw	Blood Alc VAL.MET	WB	1.00	1.00
38	SIM06242014.0038.raw	Blood Alc VAL.MET	WB	1.00	1.00
39	SIM06242014.0039.raw	Blood Alc VAL.MET	CCS	1.00	1.00
40	SIM06242014.0040.raw	Blood Alc VAL.MET	CCS	1.00	1.00
41	SIM06242014.0041.raw	Blood Alc VAL.MET	AP Low	1.00	1.00
42	SIM06242014.0042.raw	Blood Alc VAL.MET	AP Low	1.00	1.00
43	SIM06242014.0043.raw	Blood Alc VAL.MET	AP Low	1.00	1.00
44	SIM06242014.0044.raw	Blood Alc VAL.MET	AP Med	1.00	1.00
45	SIM06242014.0045.raw	Blood Alc VAL.MET	AP Med	1.00	1.00
46	SIM06242014.0046.raw	Blood Alc VAL.MET	AP Med	1.00	1.00
47	SIM06242014.0047.raw	Blood Alc VAL.MET	AP High	1.00	1.00
48	SIM06242014.0048.raw	Blood Alc VAL.MET	AP High	1.00	1.00
49	SIM06242014.0049.raw	Blood Alc VAL.MET	AP High	1.00	1.00
50	SIM06242014.0050.raw	Blood Alc VAL.MET	CCS	1.00	1.00
51	SIM06242014.0051.raw	Blood Alc VAL.MET	CCS	1.00	1.00

Samples not included. RZM 6/25/14

Lot #s
Internal Standard: IS-03202014
Timing Mix: TMX-08122013
Ethanol Standard: ES-06162014
AQ Control: Cerilliant FN021111-03
RZM 6/25/14

14-05-100 42 RZM



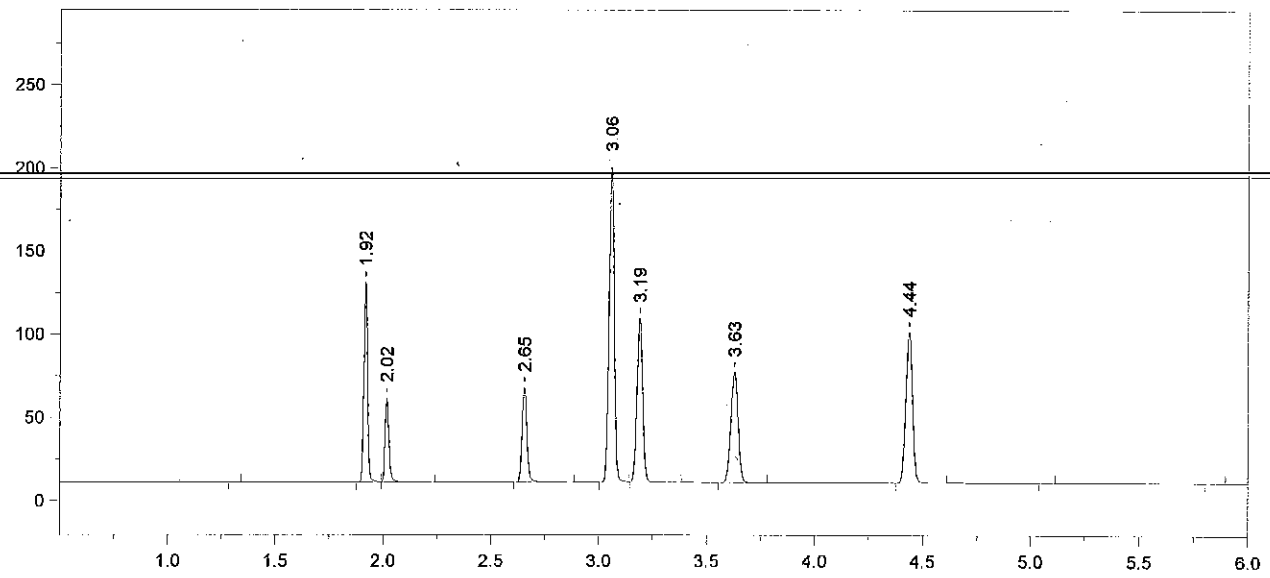
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014
Today's Time = 8:19:30 AM
Bound File Name = SIM06242014.0001.RAW
Sample Name = Blank
Date Taken = 6/24/2014 3:06:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	160859	0.9580
5	4.43	n-Propanol	216075	1.0000

14-05-100 43

Chrom Perfect Chromatogram Report

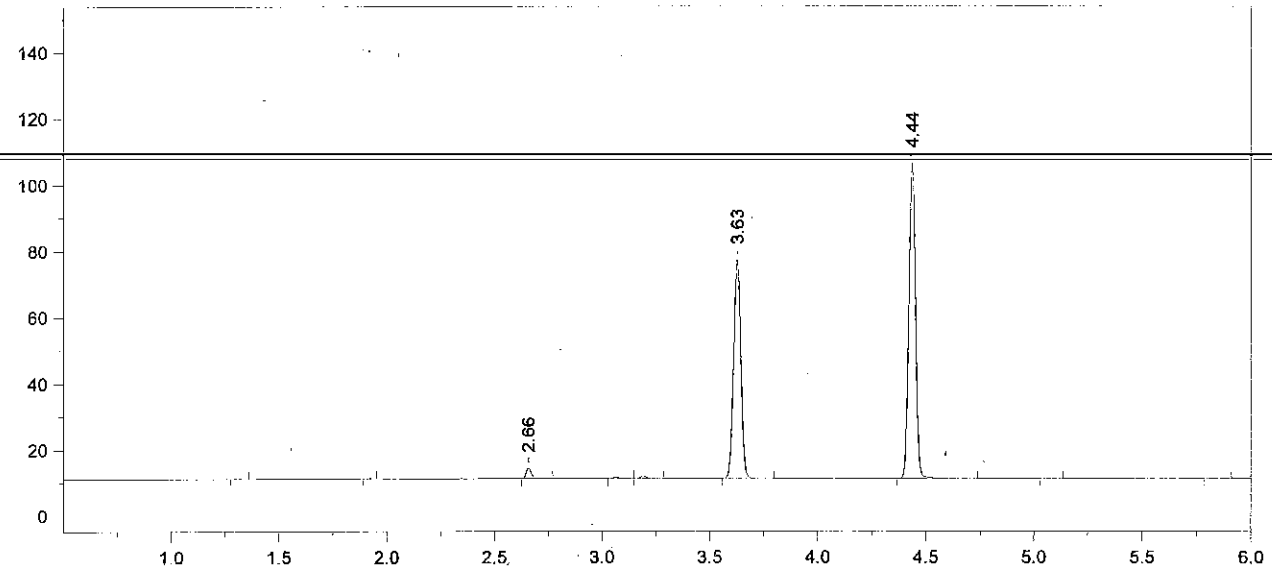


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014
Today's Time = 8:19:36 AM
Bound File Name = SIM06242014.0002.RAW
Sample Name = TMX
Date Taken = 6/24/2014 3:24:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	141017	0.0520
3	2.02	Methanol	64402	0.1370
4	2.65	Ethanol	89193	0.0891
5	3.06	Acetone	325451	0.0940
6	3.19	Isopropanol	184695	0.0850
7	3.63	t-Butanol	153806	1.0353
8	4.44	n-Propanol	191188	1.0000

14-05-100 44

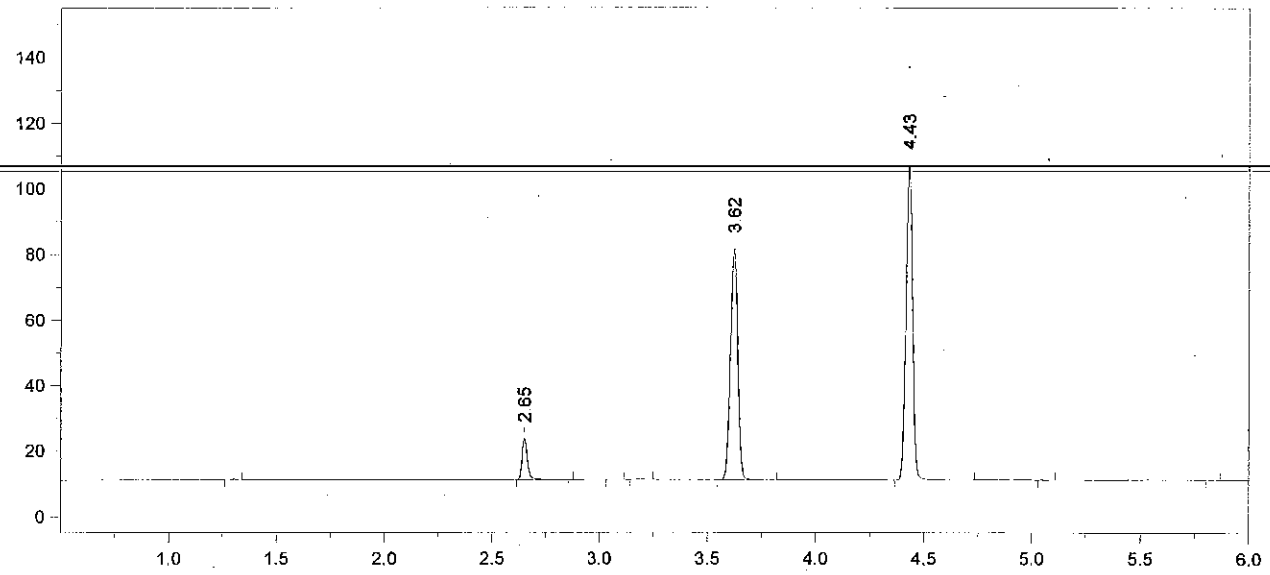


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014 Today's Time = 8:19:41 AM
Bound File Name = SIM06242014.0003.RAW
Sample Name = STD A
Date Taken = 6/24/2014 3:38:05 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05406	0.0051 *
6	3.63	t-Butanol	152733	0.9727
7	4.44	n-Propanol	202056	1.0000

14-05-100 45

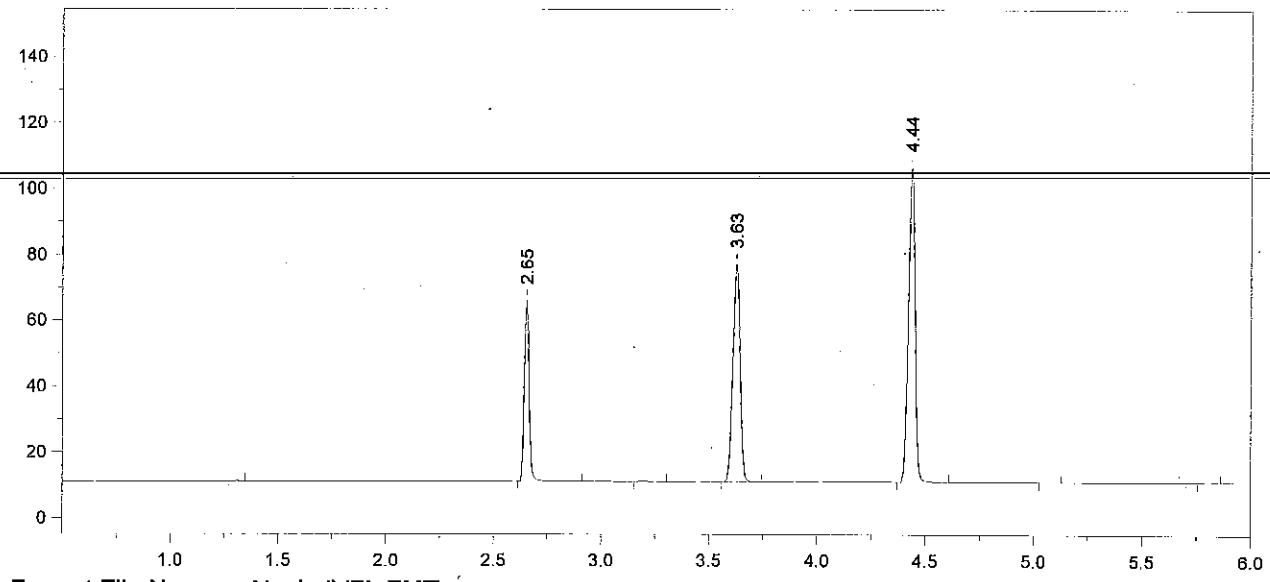


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014 Today's Time = 8:19:47 AM
Bound File Name = SIM06242014.0004.RAW
Sample Name = STD B
Date Taken = 6/24/2014 3:54:08 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	20520	0.0192
5	3.62	t-Butanol	163307	1.0277
6	4.43	n-Propanol	204482	1.0000

14-05-100 46

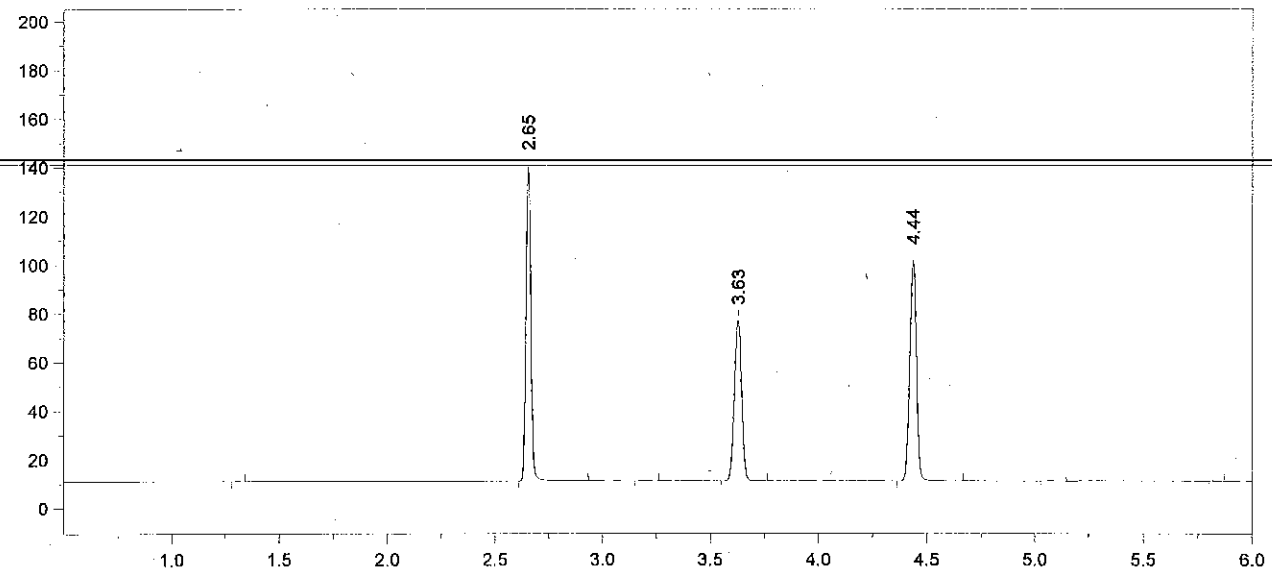


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014 Today's Time = 8:19:53 AM
Bound File Name = SIM06242014.0005.RAW
Sample Name = STD C
Date Taken = 6/24/2014 4:09:34 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85821	0.0808 *
4	3.63	t-Butanol	152989	0.9708
5	4.44	n-Propanol	202790	1.0000

14-05-100 47 RLM



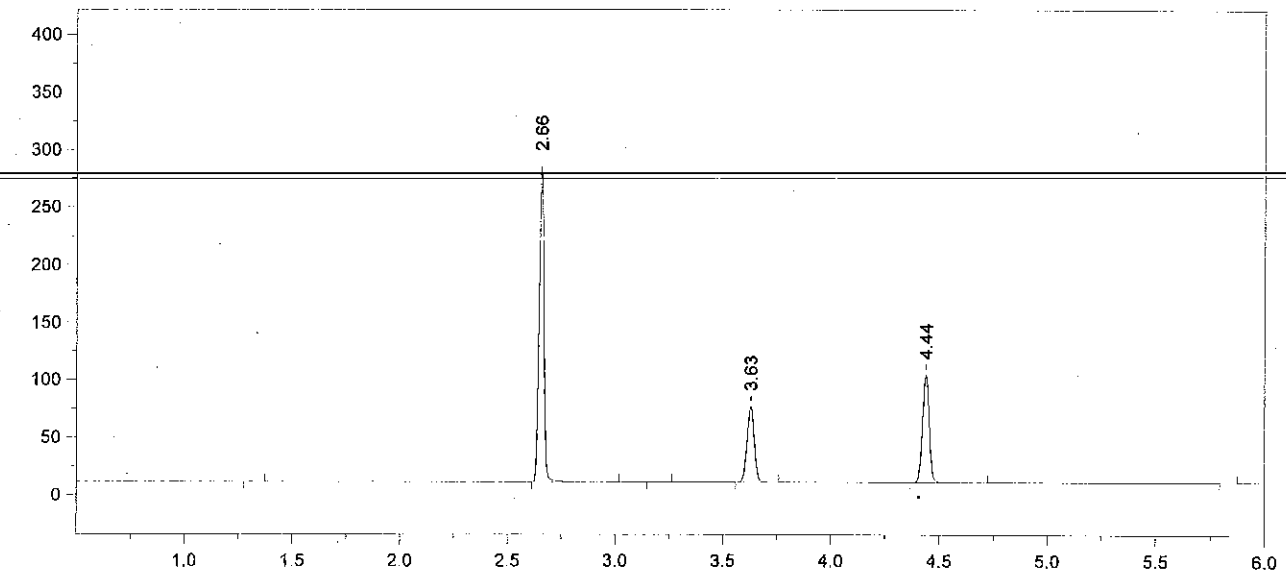
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014
Today's Time = 8:19:59 AM

Bound File Name = SIM06242014.0006.RAW
Sample Name = STD D
Date Taken = 6/24/2014 4:25:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	199688	0.1978*
4	3.63	t-Butanol	152871	1.0205
5	4.44	n-Propanol	192780	1.0000

14-05-100 48

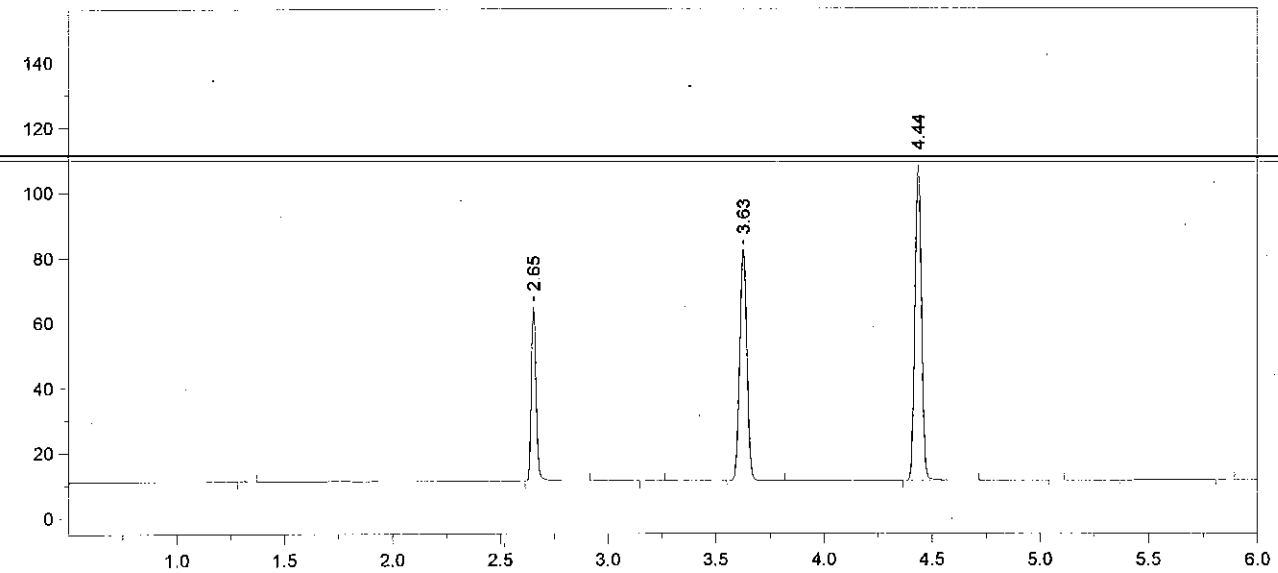


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2014
Today's Time = 8:20:05 AM
Bound File Name = SIM06242014.0007.RAW
Sample Name = STD E
Date Taken = 6/24/2014 4:39:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	421706	0.4020 *
4	3.63	t-Butanol	151489	0.9730
5	4.44	n-Propanol	200364	1.0000

14-05-100 49

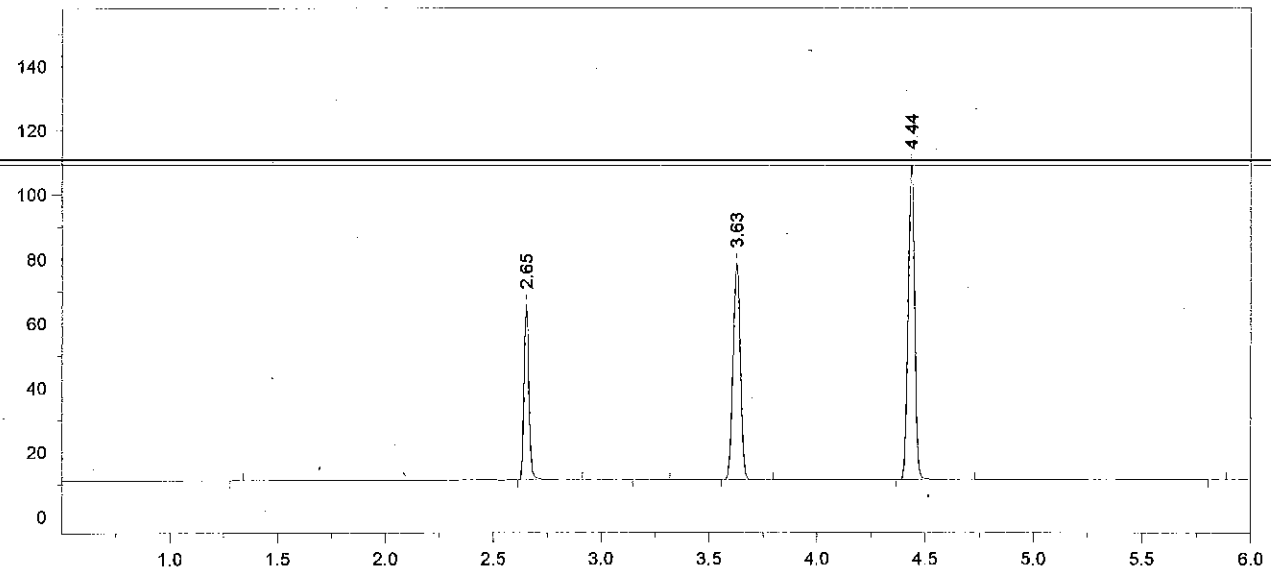


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 4:55:34 PM
Bound File Name = SIM06242014.0008.RAW
Sample Name = AQ QC
Date Taken = 6/24/2014 4:55:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83486	0.0773*
4	3.63	t-Butanol	164537	1.0259
5	4.44	n-Propanol	206388	1.0000

14-05-100 50



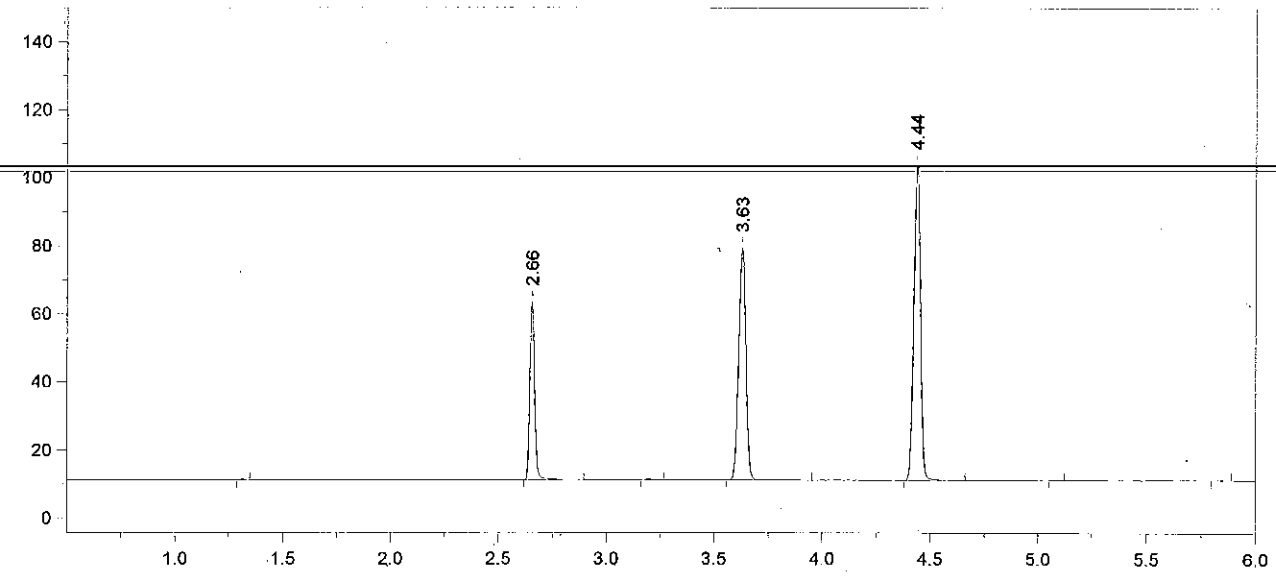
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 5:10:58 PM
Bound File Name = SIM06242014.0009.RAW
Sample Name = AQ QC
Date Taken = 6/24/2014 5:10:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84875	0.0782 *
4	3.63	t-Butanol	155308	0.9644
5	4.44	n-Propanol	207249	1.0000

Avg # 8 + # 9 = 0.078
Target value: 0.080
% recovery = 97 %
RLM 6/25/14

14-05-100 51 RLM

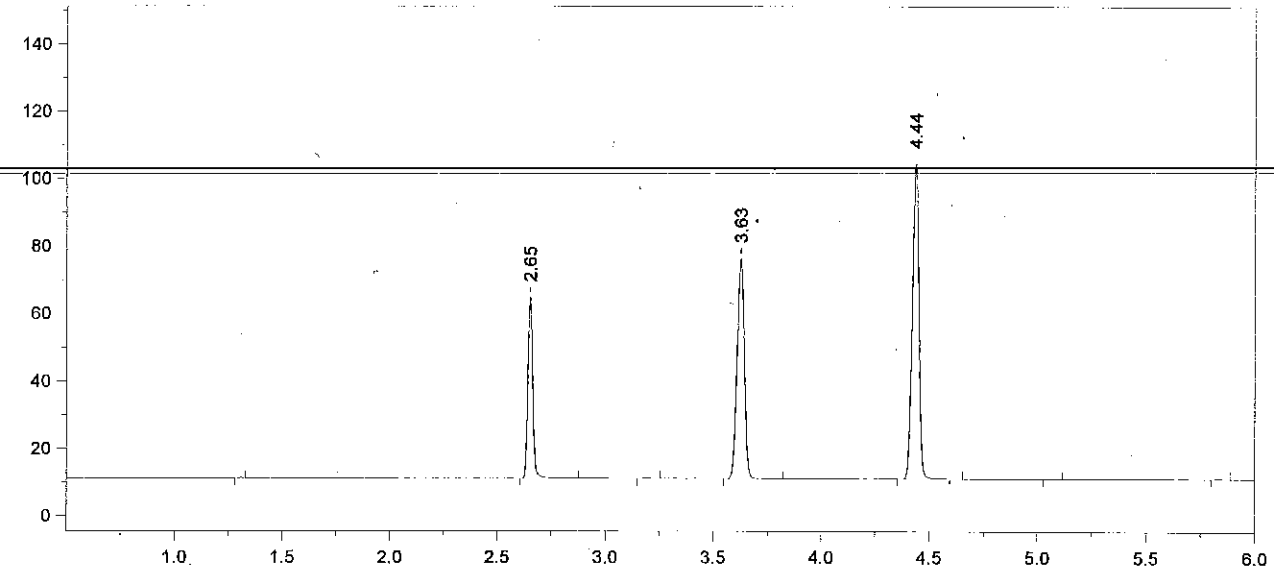


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 5:27:09 PM
Bound File Name = SIM06242014.0010.RAW
Sample Name = CCS
Date Taken = 6/24/2014 5:27:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	81910	0.0794 *
4	3.63	t-Butanol	157981	1.0317
5	4.44	n-Propanol	197049	1.0000

14-05-100 52 RZM



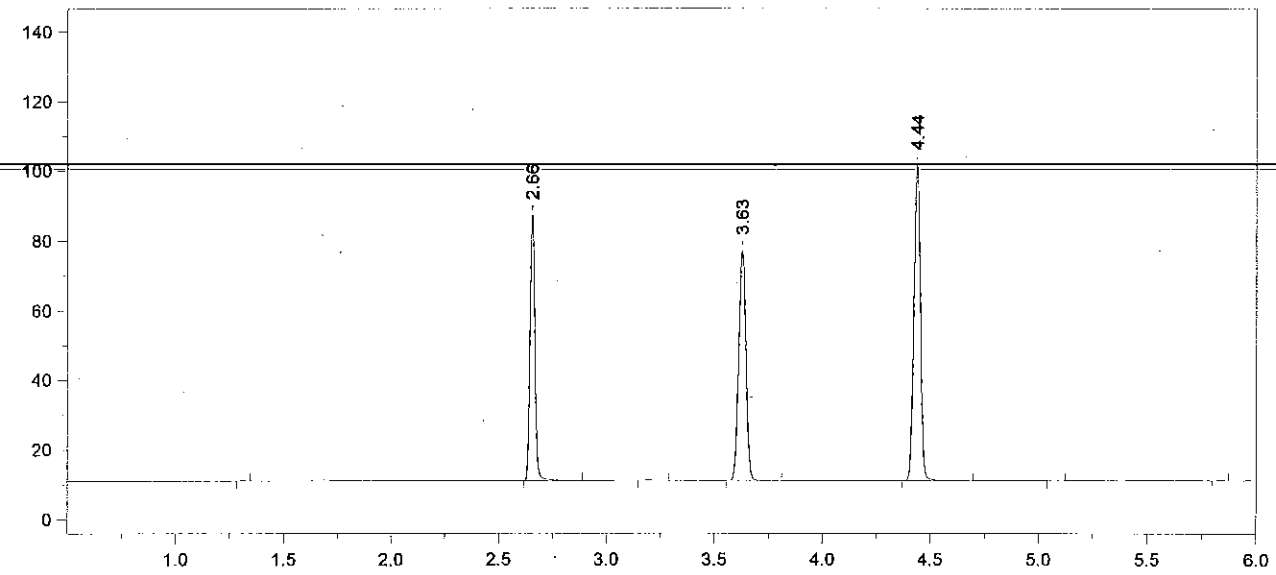
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 5:41:10 PM
Bound File Name = SIM06242014.0011.RAW
Sample Name = CCS
Date Taken = 6/24/2014 5:41:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84185	0.0808 *
4	3.63	t-Butanol	151012	0.9767
5	4.44	n-Propanol	198970	1.0000

Avg #10 + #11 = 0.080
RZM 6/25/14

14-05-100 53 RZM

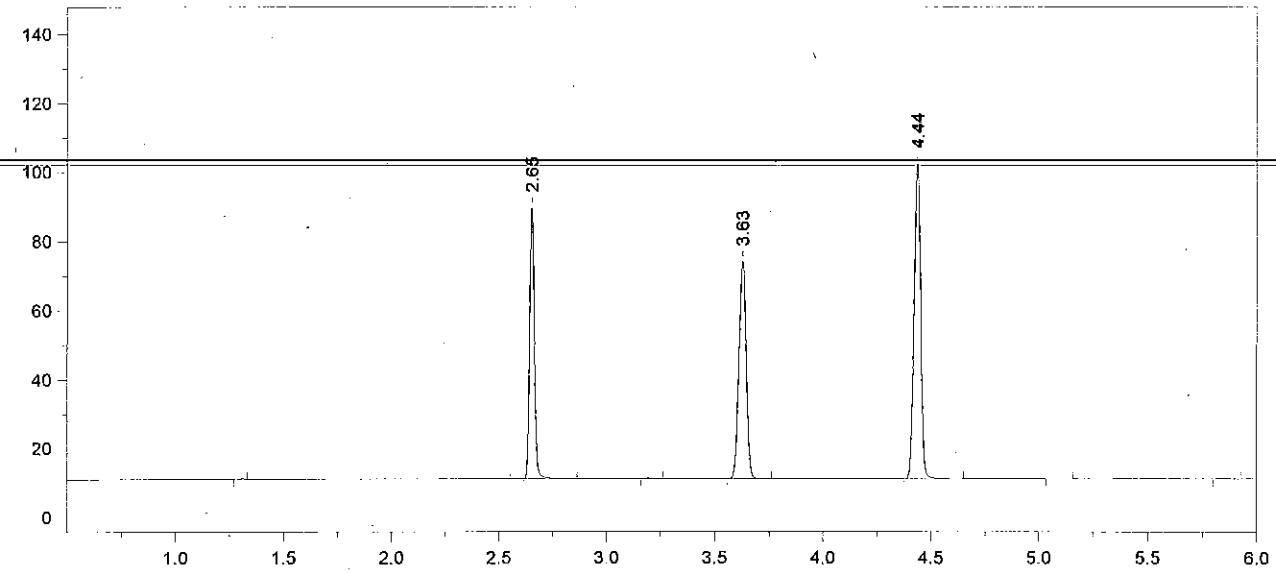


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 5:58:35 PM
Bound File Name = SIM06242014.0012.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 5:58:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	119492	0.1190	0.0971
4	3.63	t-Butanol	153357	1.0287	0.8396
5	4.44	n-Propanol	191843	1.0000	0.8162

14-05-100 54 RLM

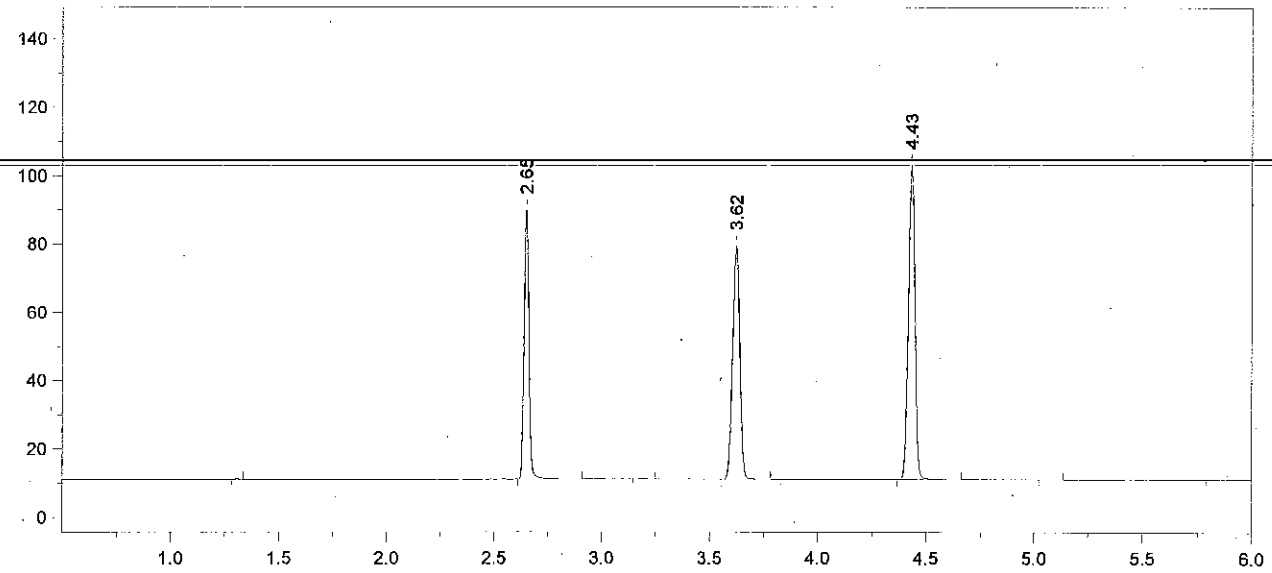


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 6:11:55 PM
Bound File Name = SIM06242014.0013.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 6:11:44 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121807	0.1205	0.0984
4	3.63	t-Butanol	145893	0.9726	0.7938
5	4.44	n-Propanol	193038	1.0000	0.8162

14-05-100 55

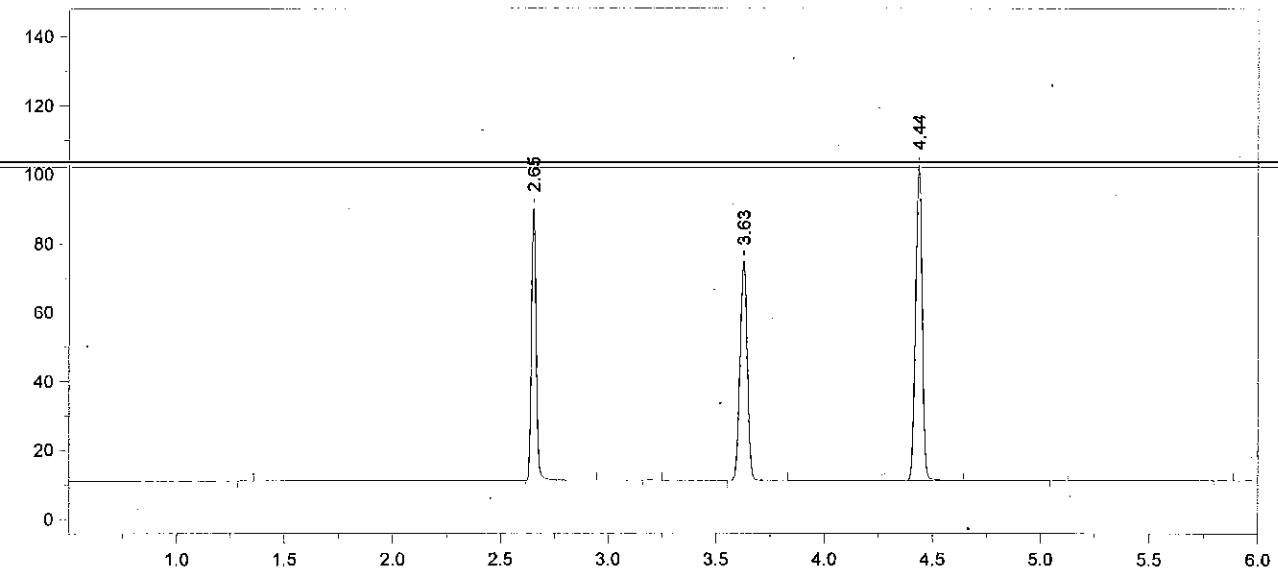


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 6:30:05 PM
Bound File Name = SIM06242014.0014.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 6:29:55 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122033	0.1183	0.0966
4	3.62	t-Butanol	157813	1.0313	0.8417
5	4.43	n-Propanol	196928	1.0000	0.8162

14-05-100 56 RLM



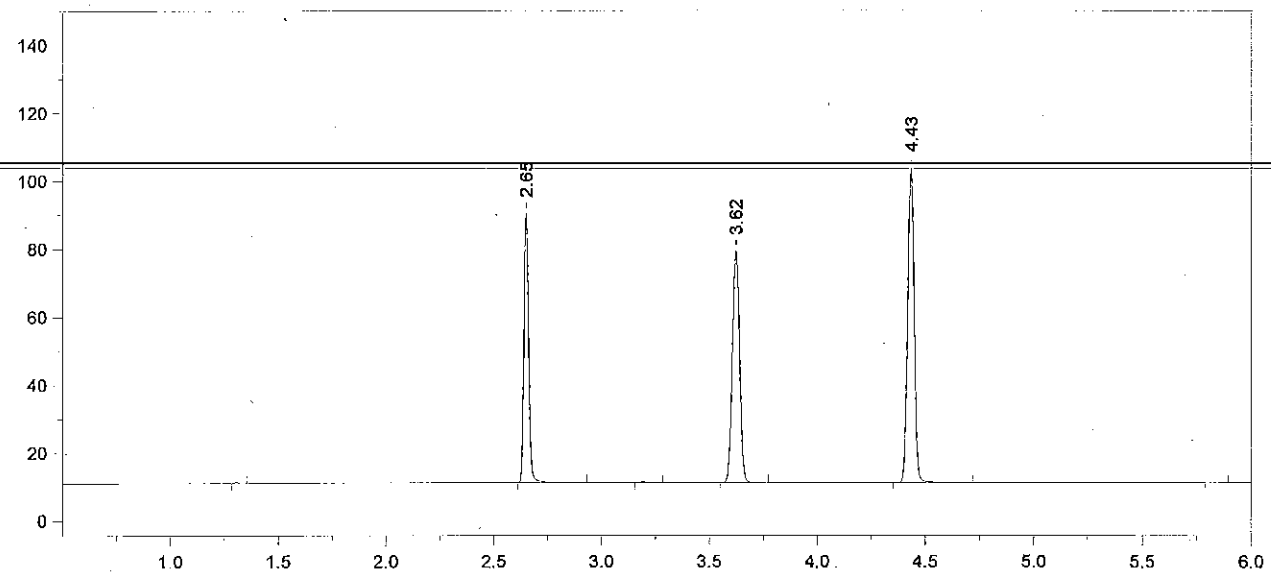
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 6:43:54 PM
Bound File Name = SIM06242014.0015.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 6:43:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122623	0.1210	0.0988
4	3.63	t-Butanol	147252	0.9793	0.7993
5	4.44	n-Propanol	193501	1.0000	0.8162

14-05-100 57 RLM

Chrom Perfect Chromatogram Report

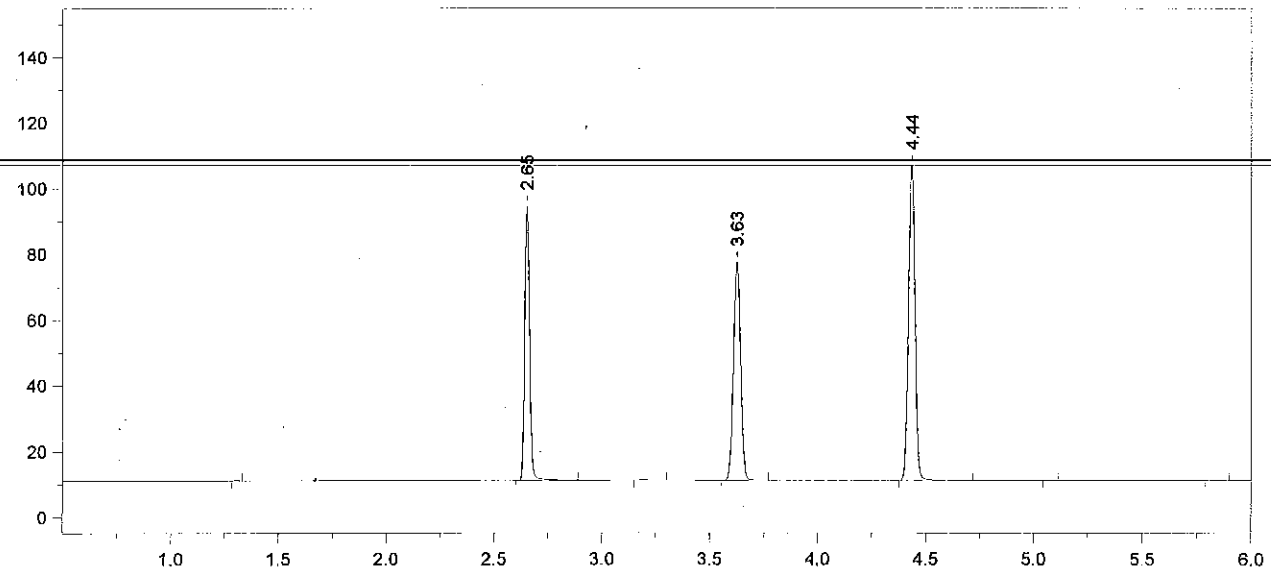


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 6:59:44 PM
Bound File Name = SIM06242014.0016.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 6:59:39 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122618	0.1183	0.0965
4	3.62	t-Butanol	158215	1.0282	0.8392
5	4.43	n-Propanol	198018	1.0000	0.8162

14-05-100 58



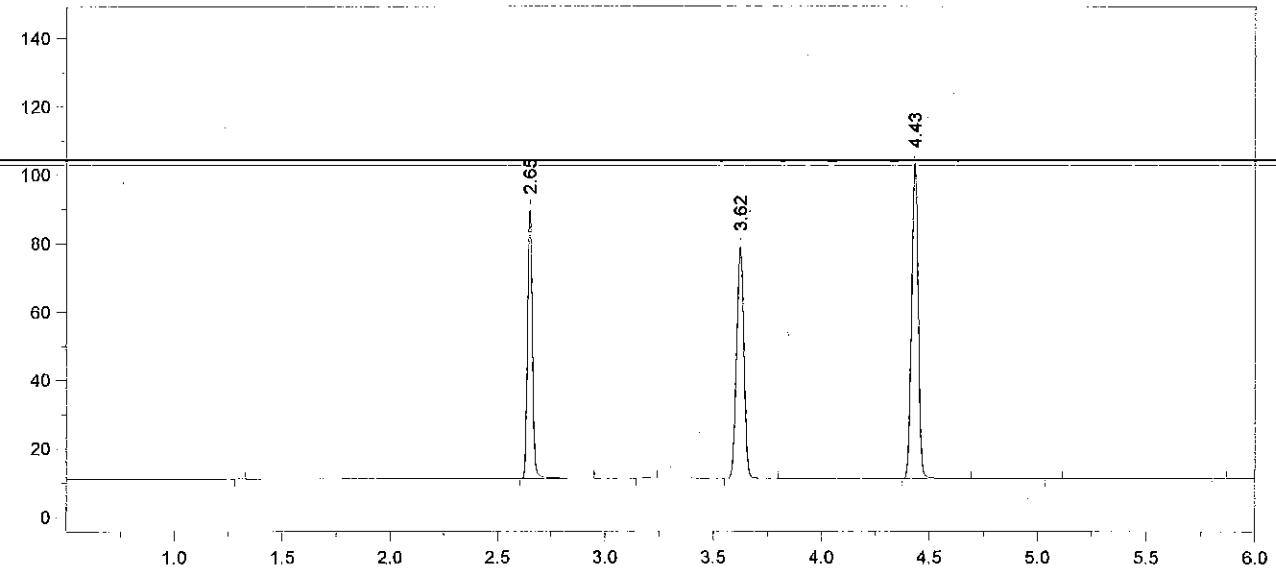
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 7:15:23 PM
Bound File Name = SIM06242014.0017.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 7:15:18 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129184	0.1208	0.0986
4	3.63	t-Butanol	153148	0.9653	0.7879
5	4.44	n-Propanol	204156	1.0000	0.8162

14-05-100 59 RLM

Chrom Perfect Chromatogram Report

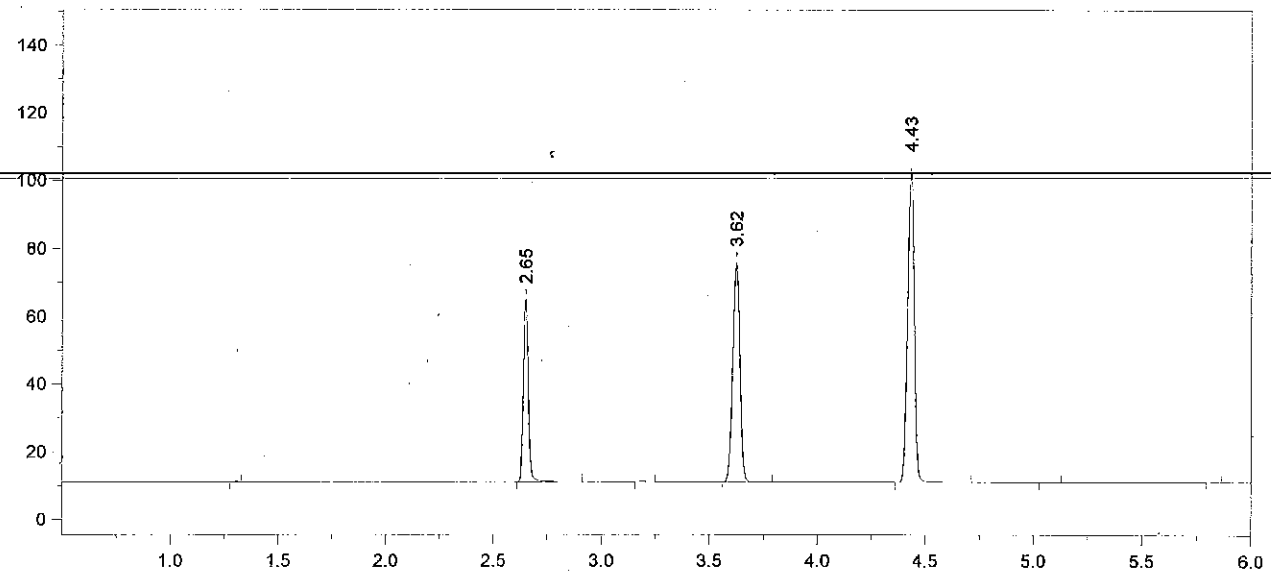


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 7:31:20 PM
Bound File Name = SIM06242014.0018.RAW
Sample Name = RLM 0.1
Date Taken = 6/24/2014 7:31:11 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121548	0.1185	0.0967
4	3.62	t-Butanol	156754	1.0298	0.8406
5	4.43	n-Propanol	195877	1.0000	0.8162

14-05-100 60 RLM



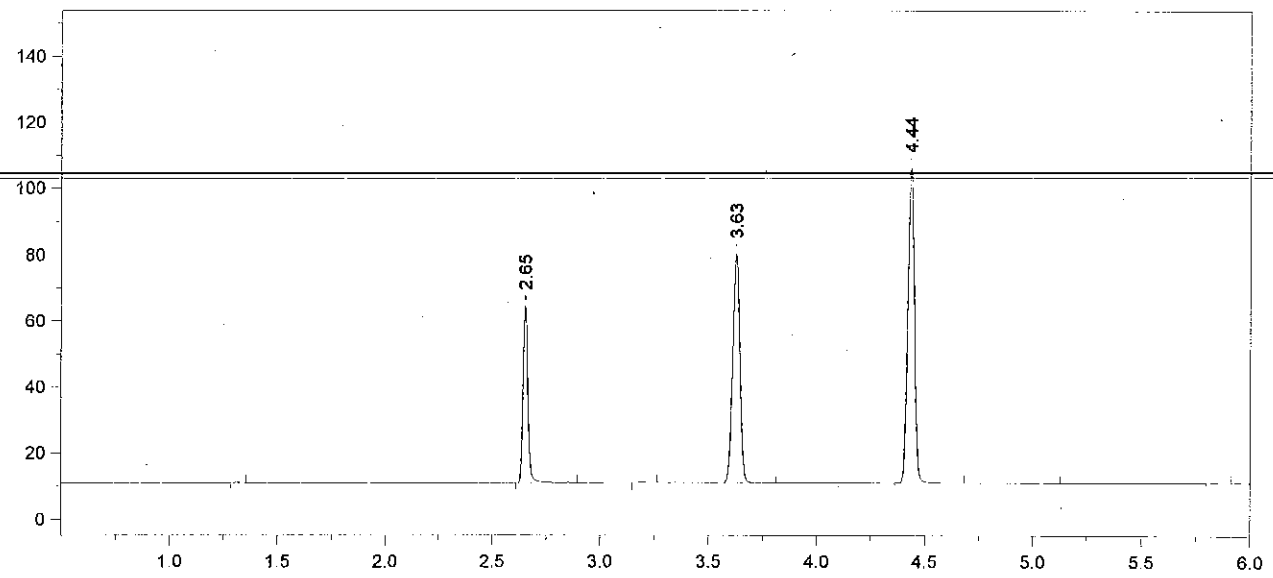
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:45:46 PM
Bound File Name = SIM06242014.0019.RAW
Sample Name = CCS
Date Taken = 6/24/2014 7:45:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83727	0.0810
4	3.62	t-Butanol	149824	0.9772
5	4.43	n-Propanol	197313	1.0000

14-05-100 61

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

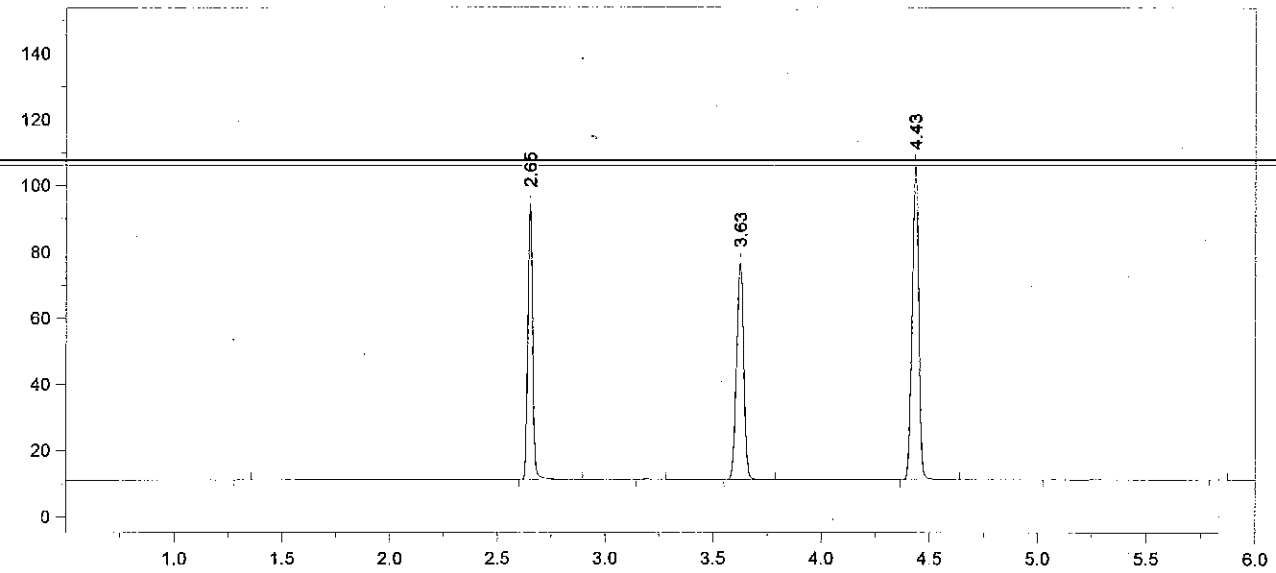
Today's Date = 6/24/2014
Today's Time = 8:01:04 PM
Bound File Name = SIM06242014.0020.RAW
Sample Name = CCS
Date Taken = 6/24/2014 8:00:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83723	0.0794 *
4	3.63	t-Butanol	160315	1.0243
5	4.44	n-Propanol	201420	1.0000

Avg #19 + #20 = 0.080
RLM 6/25/14

14-05-100 62 RLM

Chrom Perfect Chromatogram Report



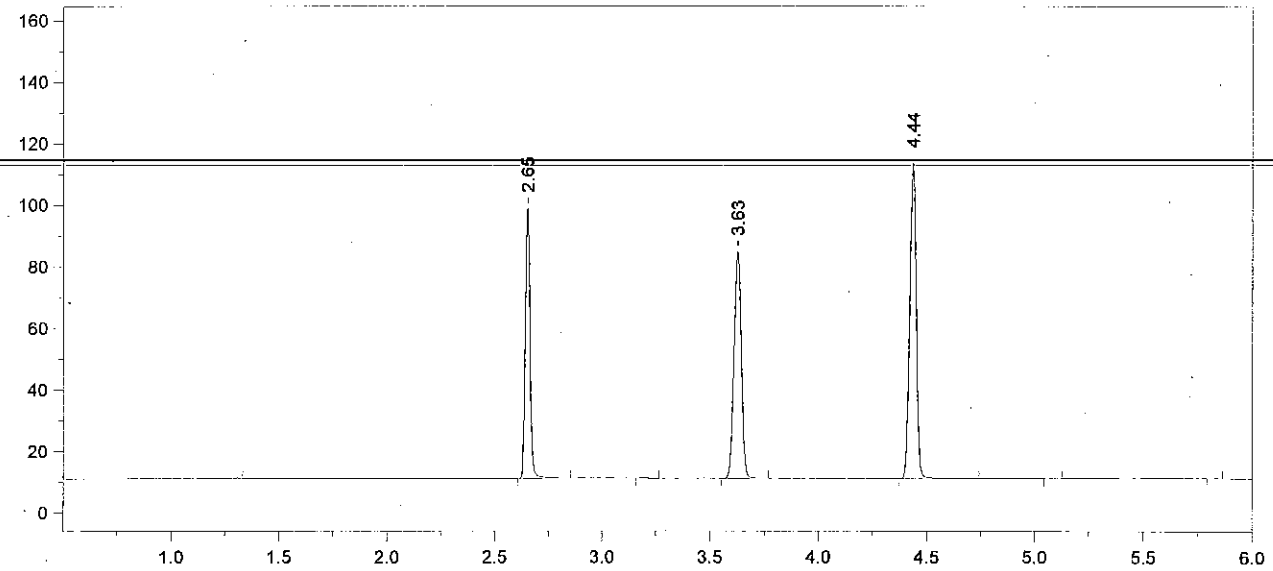
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 8:16:26 PM
Bound File Name = SIM06242014.0021.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 8:16:18 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130034	0.1235	0.1008
4	3.63	t-Butanol	151815	0.9715	0.7929
5	4.43	n-Propanol	201104	1.0000	0.8162

14-05-100 63

Chrom Perfect Chromatogram Report

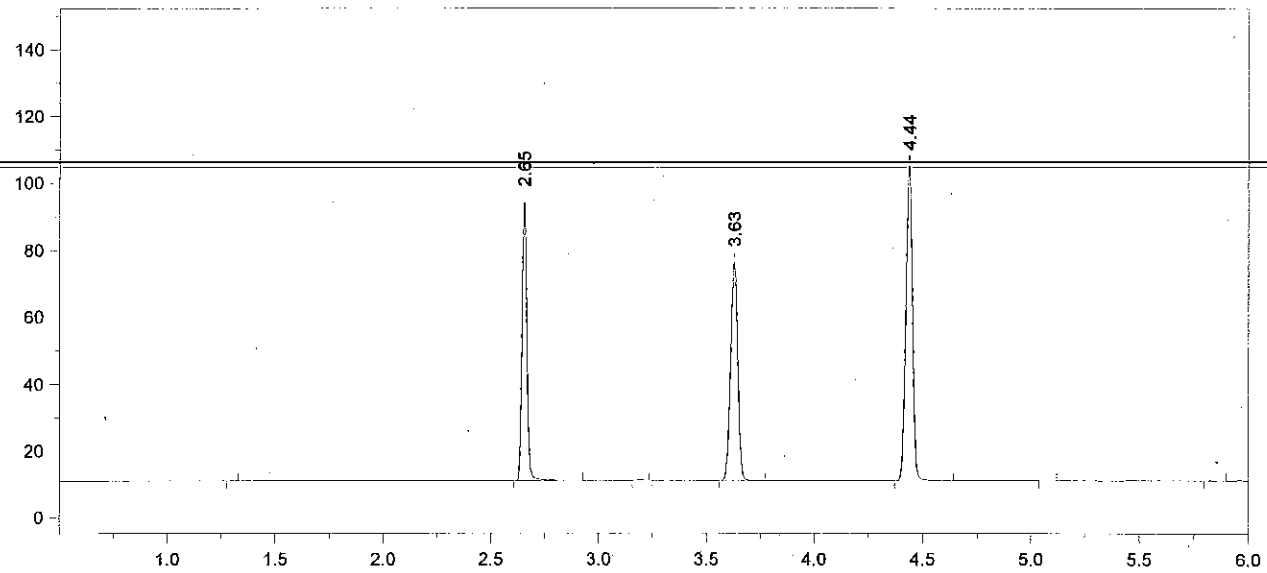


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 8:32:36 PM
Bound File Name = SIM06242014.0022.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 8:32:27 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	135270	0.1188	0.0970
4	3.63	t-Butanol	170713	1.0104	0.8247
5	4.44	n-Propanol	217431	1.0000	0.8162

14-05-100 64

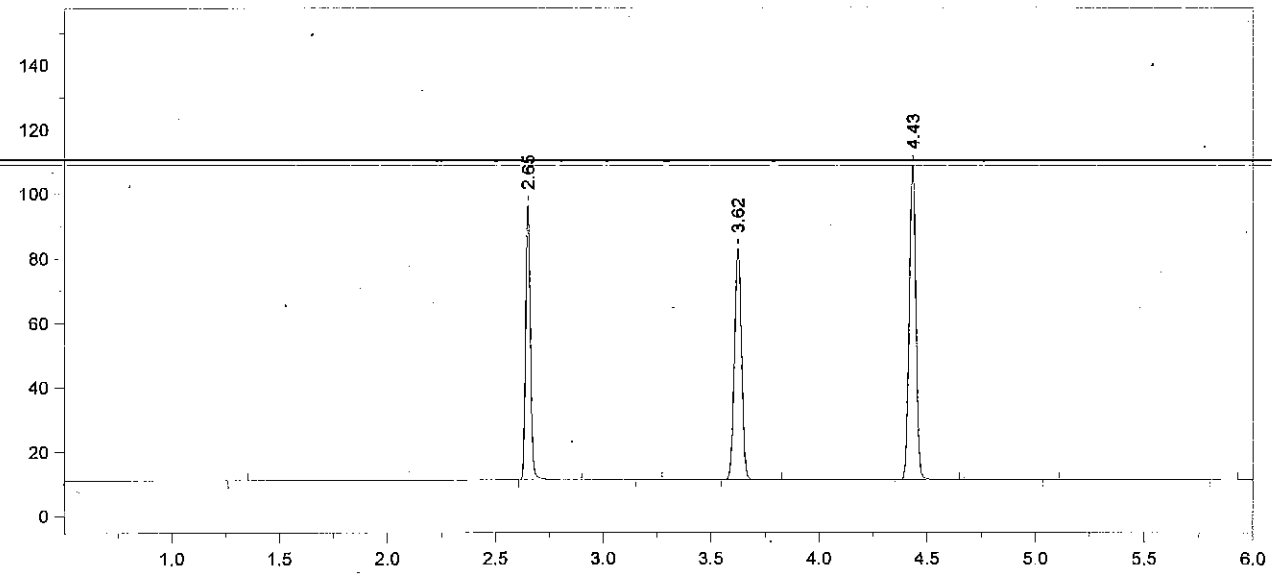


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 8:46:46 PM
Bound File Name = SIM06242014.0023.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 8:46:38 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128652	0.1233	0.1007
4	3.63	t-Butanol	150940	0.9751	0.7958
5	4.44	n-Propanol	199208	1.0000	0.8162

14-05-100 65

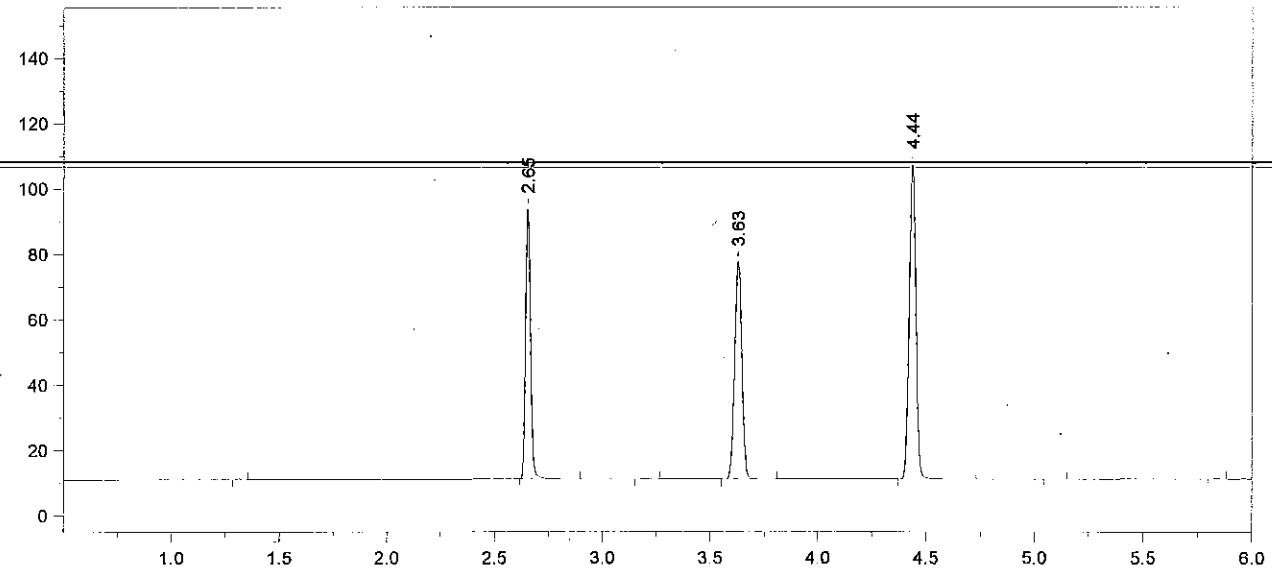


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 9:02:17 PM
Bound File Name = SIM06242014.0024.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 9:02:11 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131443	0.1207	0.0985
4	3.62	t-Butanol	166109	1.0274	0.8386
5	4.43	n-Propanol	208063	1.0000	0.8162

14-05-100 66

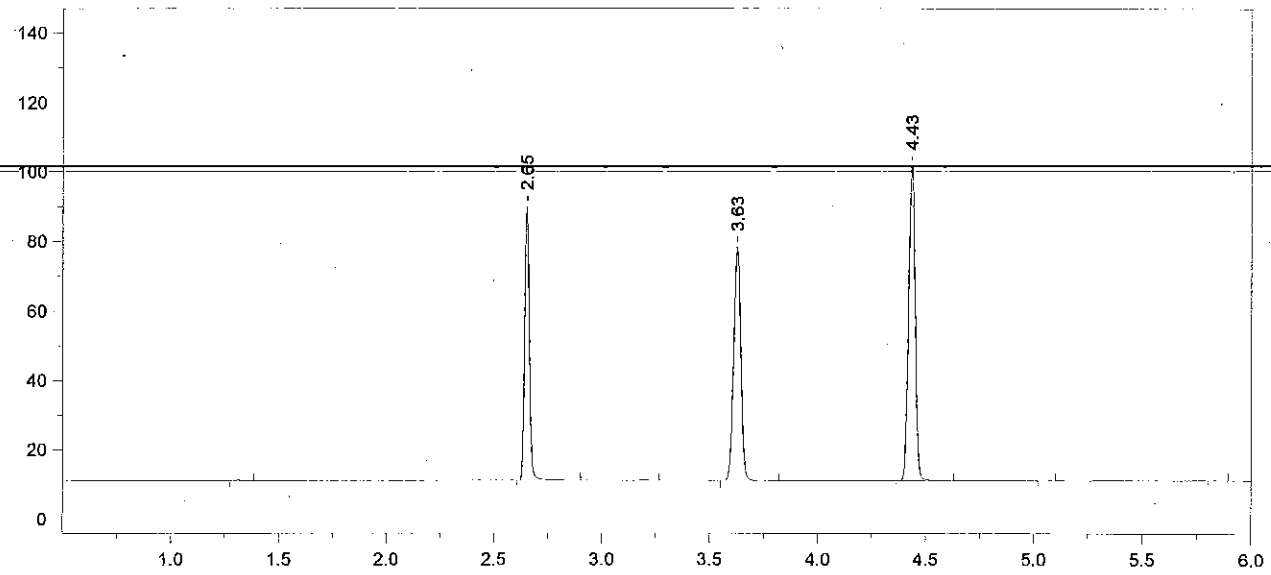


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 9:17:44 PM
Bound File Name = SIM06242014.0025.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 9:17:39 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129329	0.1209	0.0987
4	3.63	t-Butanol	154436	0.9731	0.7943
5	4.44	n-Propanol	204226	1.0000	0.8162

14-05-100 67

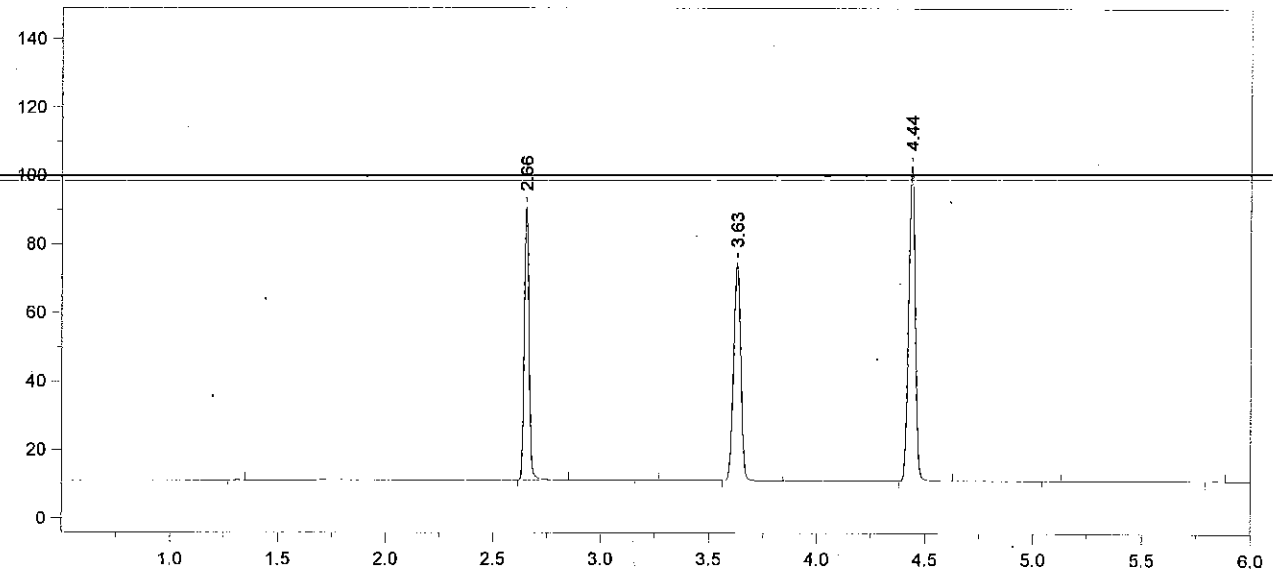


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 9:33:49 PM
Bound File Name = SIM06242014.0026.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 9:33:43 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121547	0.1199	0.0978
4	3.63	t-Butanol	155039	1.0304	0.8410
5	4.43	n-Propanol	193634	1.0000	0.8162

14-05-100 68 RZM



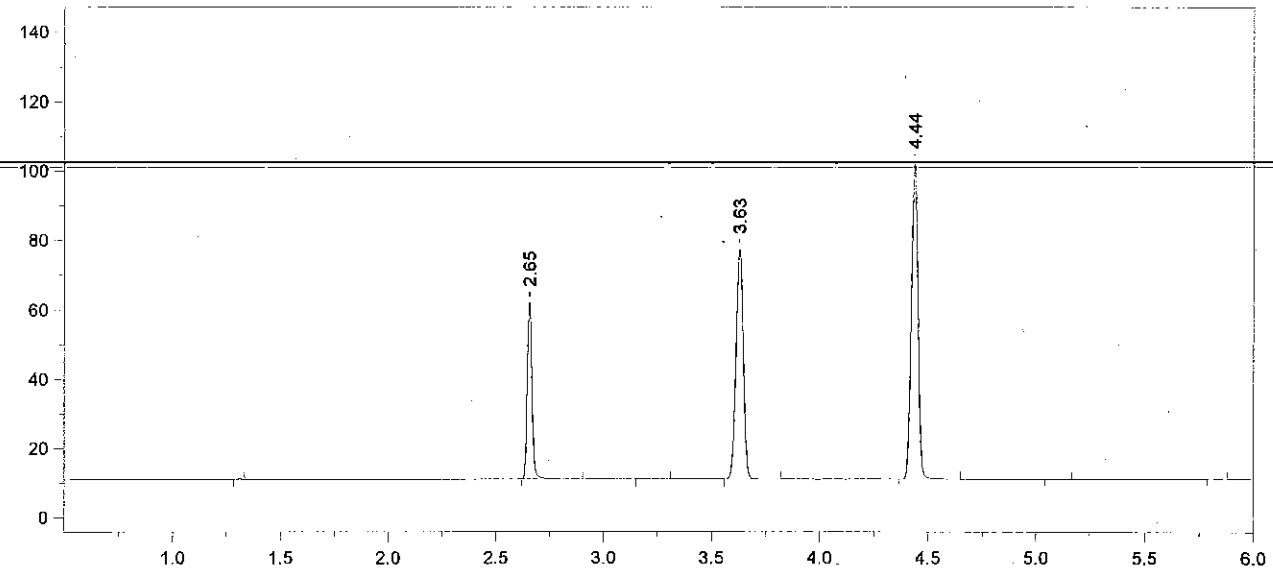
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/24/2014 Today's Time = 9:48:13 PM
Bound File Name = SIM06242014.0027.RAW
Sample Name = ALB 0.1
Date Taken = 6/24/2014 9:48:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06242014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	124187	0.1219	0.0995
4	3.63	t-Butanol	147073	0.9728	0.7940
5	4.44	n-Propanol	194558	1.0000	0.8162

14-05-100 69 RZn

Chrom Perfect Chromatogram Report



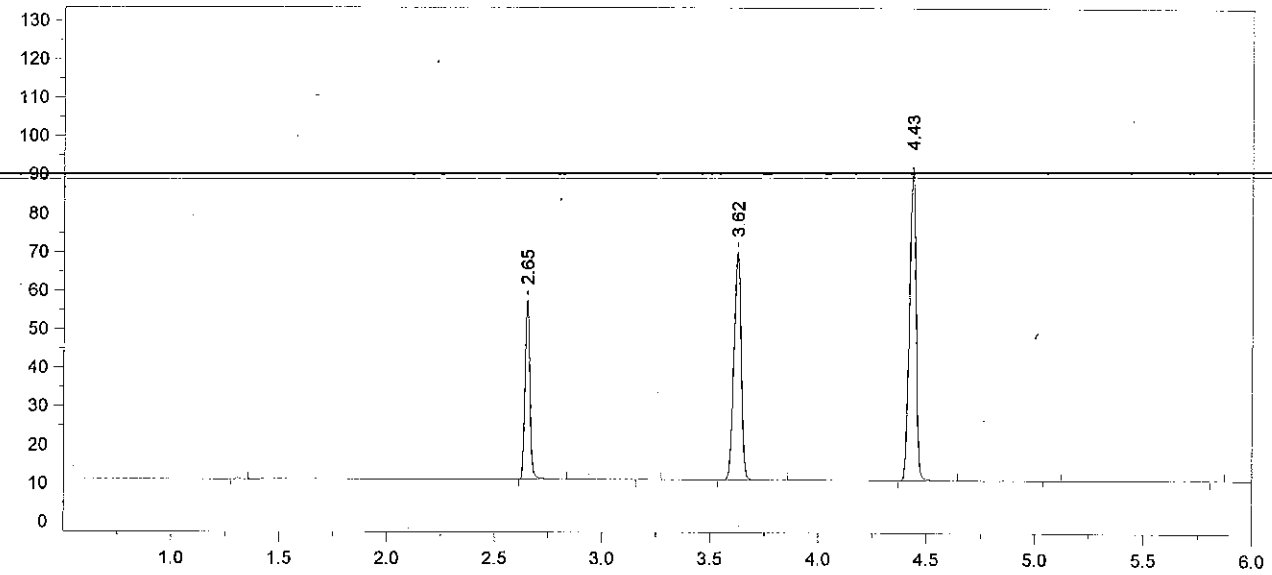
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 10:05:15 PM
Bound File Name = SIM06242014.0028.RAW
Sample Name = CCS
Date Taken = 6/24/2014 10:05:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80128	0.0797 *
4	3.63	t-Butanol	153884	1.0315
5	4.44	n-Propanol	191990	1.0000

14-05-100 70

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 10:19:05 PM
Bound File Name = SIM06242014.0029.RAW
Sample Name = CCS
Date Taken = 6/24/2014 10:18:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06242014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	72519	0.0800 *
4	3.62	t-Butanol	137028	1.0189
5	4.43	n-Propanol	173074	1.0000

Avg #28 + #29 = 0.080
RZm 6/25/14

14-05-100 71 RZm

File Name: C:\Methods\SIM06232014.CAL
Version: 7

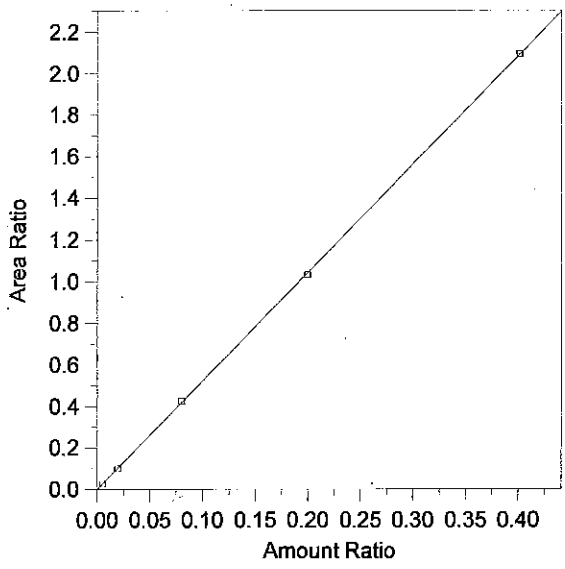
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
Reference peak area reject threshold: 0
Amount units:
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

3 Ethanol



Expected retention time: 2.655 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

$Y = 5.207426 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999482
Average error: 1.927%
Average CF: 5.236786
RSD: 2.633%

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	5403.202	1102694	4.468	0.0049	2.665657E-02	C:\Alcohol Data\SIM06232014\SIM06232014.0003.BND	6/23/2014 2:18:26 PM
3	0.0197	19267.22	978031.5	-2.507	0.0197	0.1000147	C:\Alcohol Data\SIM06232014\SIM06232014.0004.BND	6/23/2014 2:36:05 PM
4	0.0801	84007.17	1048779	1.593	0.0801	0.423759	C:\Alcohol Data\SIM06232014\SIM06232014.0005.BND	6/23/2014 2:50:05 PM
5	0.1998	198968.4	995837.9	-0.901	0.1998	1.03107	C:\Alcohol Data\SIM06232014\SIM06232014.0006.BND	6/23/2014 3:07:28 PM
6	0.4011	418658.3	1043775	0.165	0.4011	2.092154	C:\Alcohol Data\SIM06232014\SIM06232014.0007.BND	6/23/2014 3:20:46 PM

14-05-100 72

File Name = C:\Alcohol Data\SIM06232014\SIM06232014.SEQ
Version = 1
File Date = 6/23/2014 1:10:17 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM06232014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM06232014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM06232014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM06232014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM06232014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM06232014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM06232014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM06232014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM06232014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM06232014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM06232014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM06232014.0012.raw	simsoln.met	RLM 0.1	1.00	1.00
13	SIM06232014.0013.raw	simsoln.met	RLM 0.1	1.00	1.00
14	SIM06232014.0014.raw	simsoln.met	RLM 0.1	1.00	1.00
15	SIM06232014.0015.raw	simsoln.met	RLM 0.1	1.00	1.00
16	SIM06232014.0016.raw	simsoln.met	RLM 0.1	1.00	1.00
17	SIM06232014.0017.raw	simsoln.met	RLM 0.1	1.00	1.00
18	SIM06232014.0018.raw	simsoln.met	RLM 0.1	1.00	1.00
19	SIM06232014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM06232014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM06232014.0021.raw	simsoln.met	TLC 0.1	1.00	1.00
22	SIM06232014.0022.raw	simsoln.met	TLC 0.1	1.00	1.00
23	SIM06232014.0023.raw	simsoln.met	TLC 0.1	1.00	1.00
24	SIM06232014.0024.raw	simsoln.met	TLC 0.1	1.00	1.00
25	SIM06232014.0025.raw	simsoln.met	TLC 0.1	1.00	1.00
26	SIM06232014.0026.raw	simsoln.met	TLC 0.1	1.00	1.00
27	SIM06232014.0027.raw	simsoln.met	TLC 0.1	1.00	1.00
28	SIM06232014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM06232014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Lot #s

Internal Standard: IS-03202014

Timing Mix: TMX-08122013

Ethanol Standard: ES-06162014

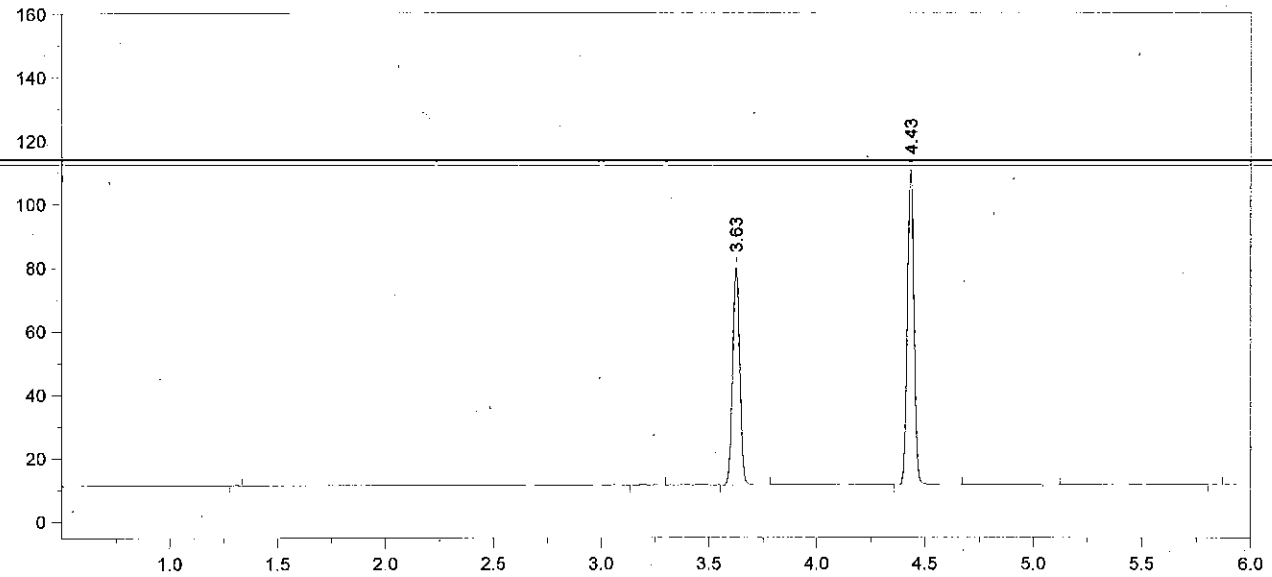
AQ Control: Cerilliant FN021111-03

RLM 6/24/14

Average of sim solution samples in this run outside ±3% from target. Sample preparation error on some samples suspected. Solution analyzed again 6/24/14. This data not used for solution certification.

RLM 6/25/14

Chrom Perfect Chromatogram Report

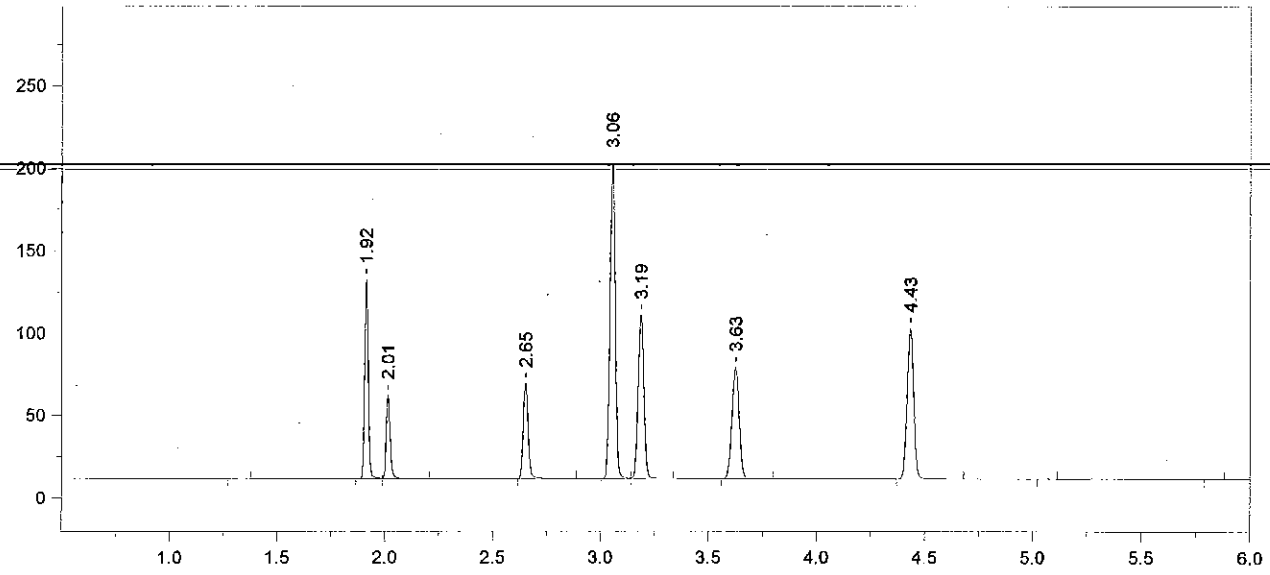


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:59:14 AM
Bound File Name = SIM06232014.0001.RAW
Sample Name = Blank
Date Taken = 6/23/2014 1:47:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	157815	0.9559
4	4.43	n-Propanol	211360	1.0000

14-05-100 74

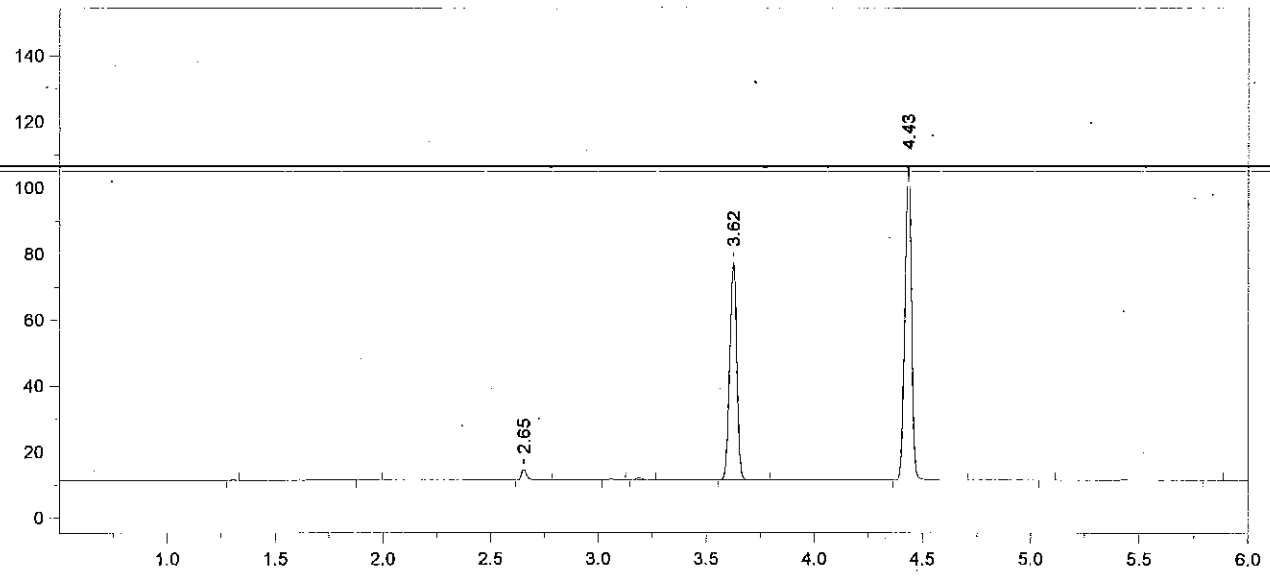


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:59:23 AM
Bound File Name = SIM06232014.0002.RAW
Sample Name = TMX
Date Taken = 6/23/2014 2:04:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	141852	0.0520
3	2.01	Methanol	64838	0.1370
4	2.65	Ethanol	89889	0.0889
5	3.06	Acetone	326965	0.0940
6	3.19	Isopropanol	186033	0.0850
7	3.63	t-Butanol	155750	1.0274
8	4.43	n-Propanol	194070	1.0000

14-05-100
75



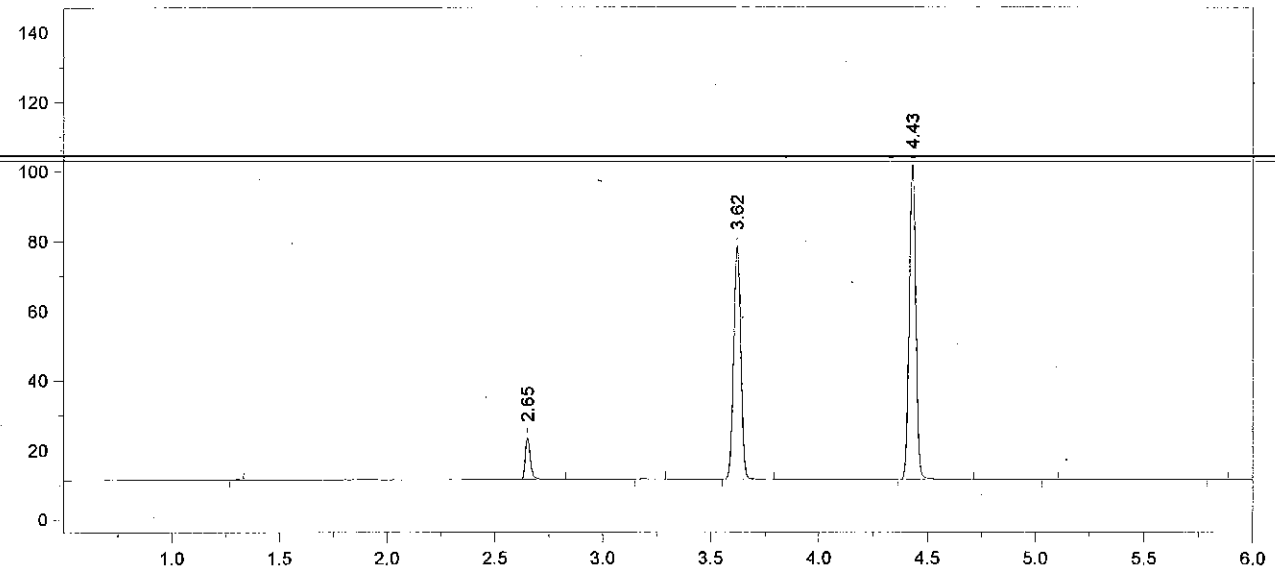
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:59:28 AM
Bound File Name = SIM06232014.0003.RAW
Sample Name = STD A
Date Taken = 6/23/2014 2:18:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	05403	0.0051
6	3.62	t-Butanol	152761	0.9648
7	4.43	n-Propanol	202697	1.0000

14-05-100 76

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

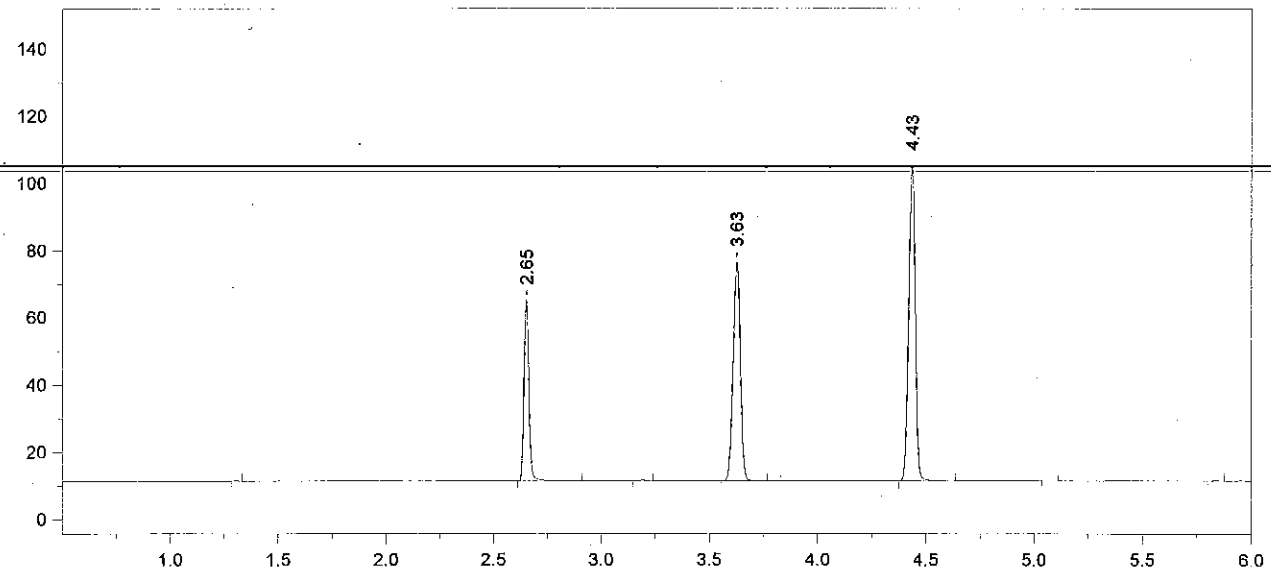
Today's Date = 6/24/2014
Today's Time = 7:59:34 AM
Bound File Name = SIM06232014.0004.RAW
Sample Name = STD B
Date Taken = 6/23/2014 2:35:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	19267	0.0192 *
4	3.62	t-Butanol	155365	1.0325
5	4.43	n-Propanol	192644	1.0000

14-05-100

77

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:59:41 AM
Bound File Name = SIM06232014.0005.RAW
Sample Name = STD C
Date Taken = 6/23/2014 2:49:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

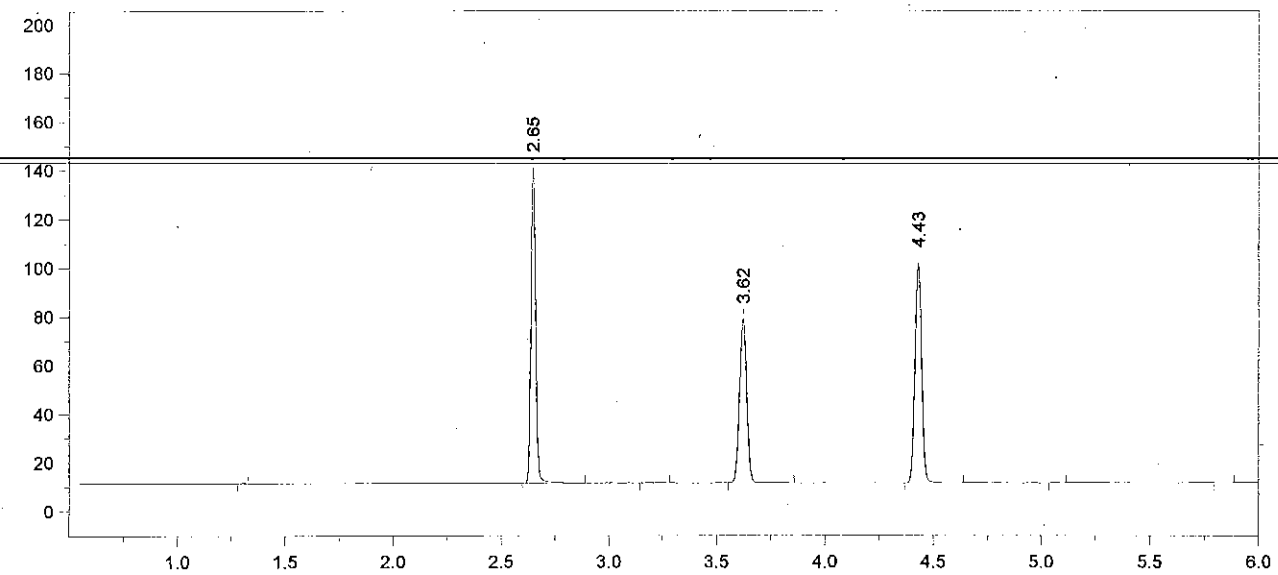
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84007	0.0814 *
4	3.63	t-Butanol	149959	0.9684
5	4.43	n-Propanol	198243	1.0000

14-05-100

78

RRn

Chrom Perfect Chromatogram Report



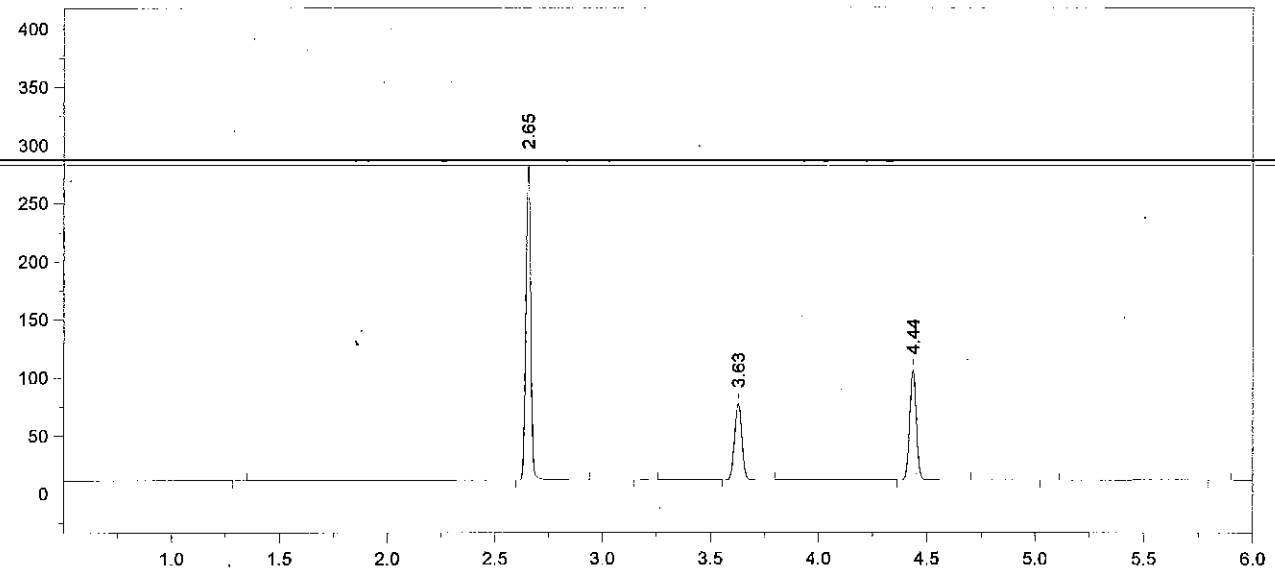
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:59:47 AM
Bound File Name = SIM06232014.0006.RAW
Sample Name = STD D
Date Taken = 6/23/2014 3:07:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	198968	0.1980 *
4	3.62	t-Butanol	155652	1.0326
5	4.43	n-Propanol	192973	1.0000

14-05-100 79 Rem

Chrom Perfect Chromatogram Report



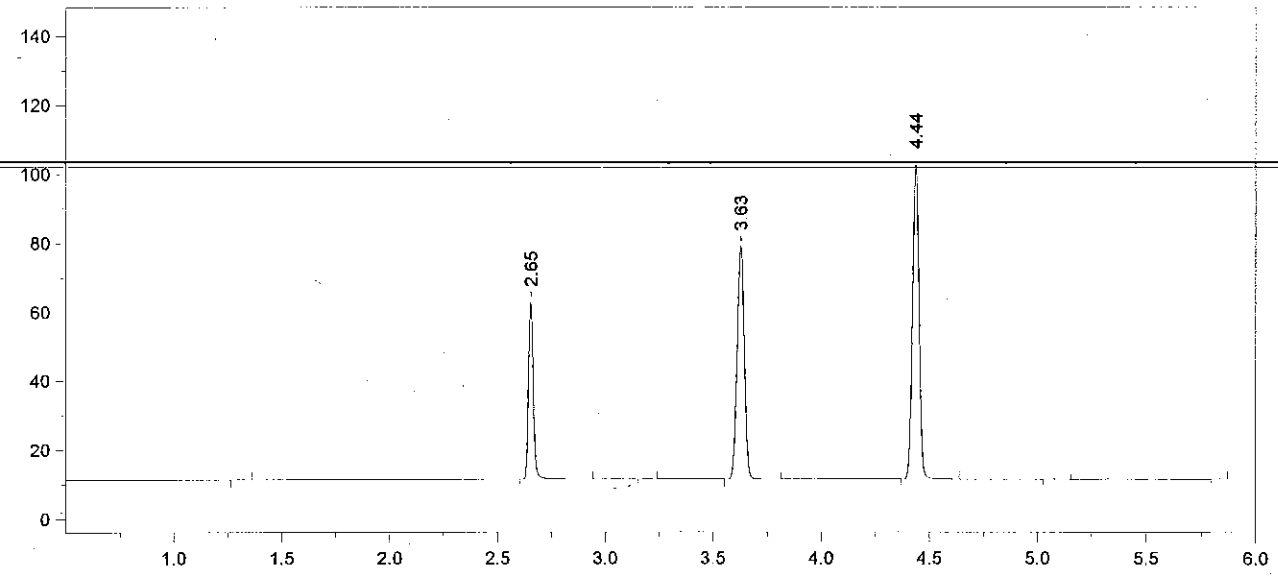
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2014
Today's Time = 7:59:53 AM
Bound File Name = SIM06232014.0007.RAW
Sample Name = STD E
Date Taken = 6/23/2014 3:20:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	418658	0.4018 *
4	3.63	t-Butanol	152287	0.9743
5	4.44	n-Propanol	200109	1.0000

14-05-100

80



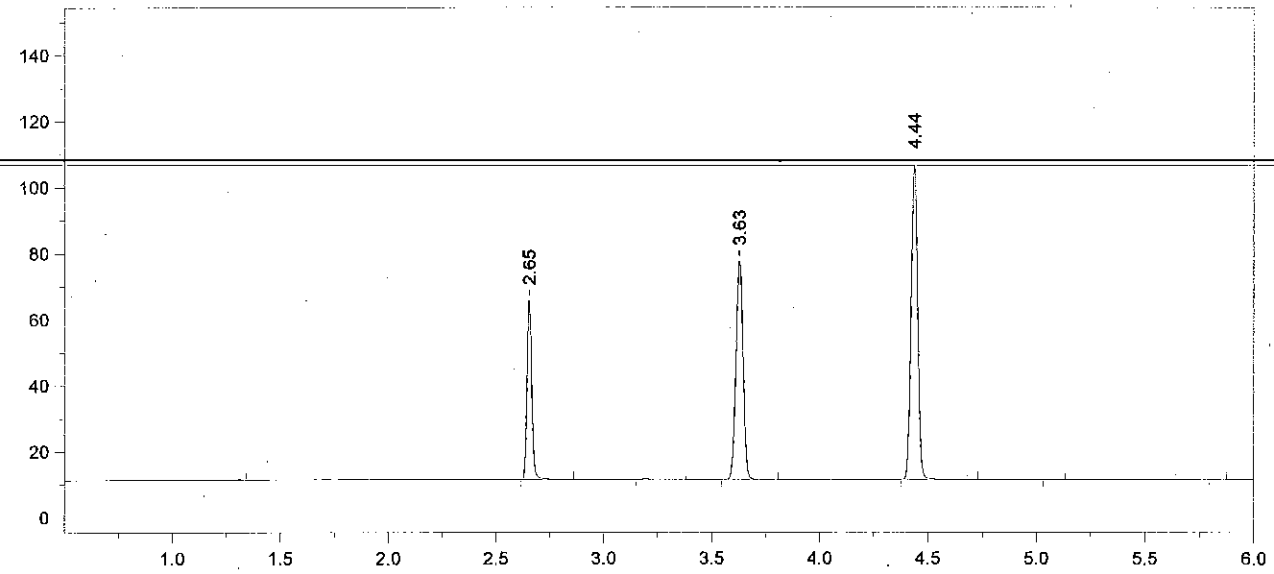
Format File Name = AlcoholVFL.FMT

Today's Date = 6/23/2014
Today's Time = 3:38:53 PM
Bound File Name = SIM06232014.0008.RAW
Sample Name = AQ QC
Date Taken = 6/23/2014 3:38:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79932	0.0795 *
4	3.63	t-Butanol	156415	1.0367
5	4.44	n-Propanol	193159	1.0000

14-05-100 81

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

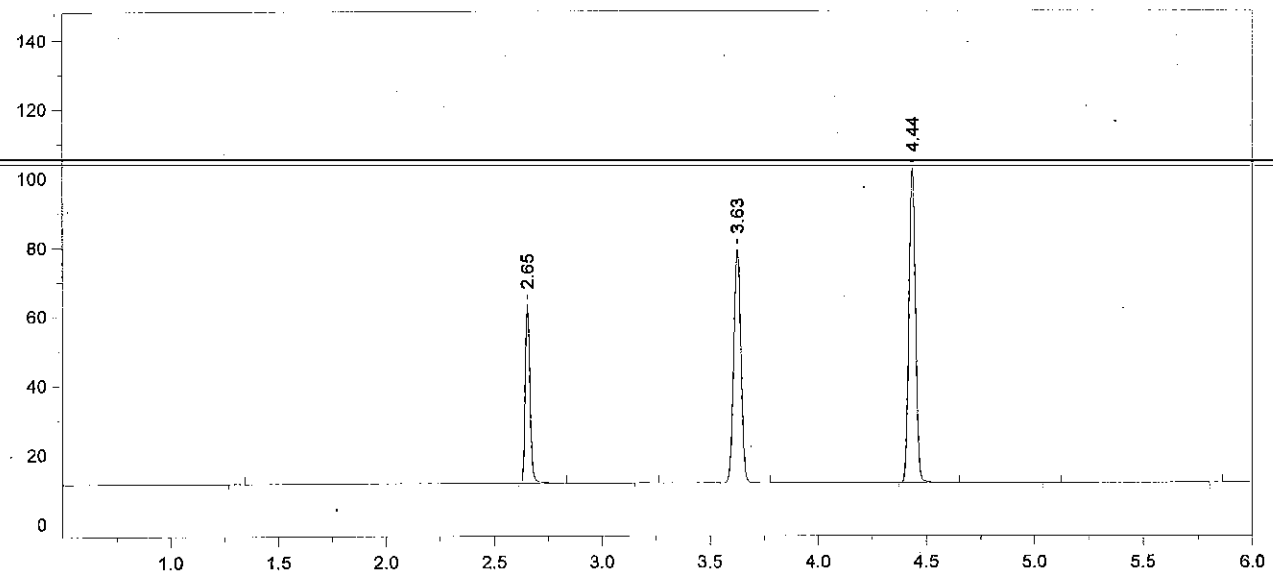
Today's Date = 6/23/2014
Today's Time = 3:52:36 PM
Bound File Name = SIM06232014.0009.RAW
Sample Name = AQ QC
Date Taken = 6/23/2014 3:52:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84724	0.0801 *
4	3.63	t-Butanol	153569	0.9677
5	4.44	n-Propanol	203166	1.0000

Avg #8 + #9 = 0.080
Target value: 0.080
% recovery = 100%
RLM 6/24/14

14-05-100 82 RLM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

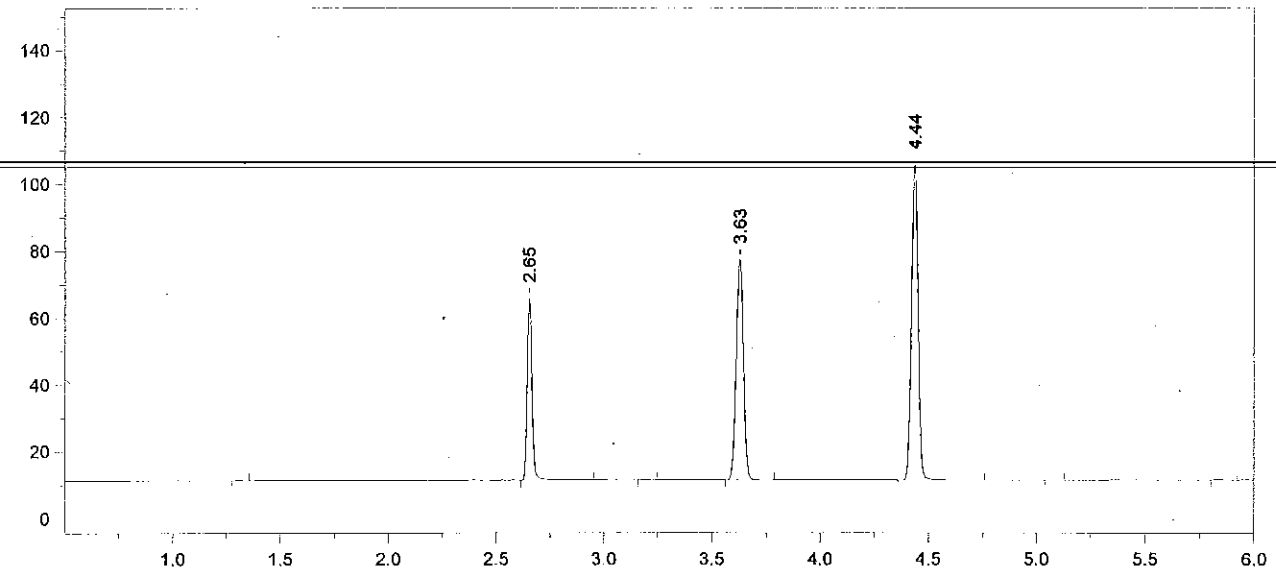
Today's Date = 6/23/2014
Today's Time = 4:10:14 PM
Bound File Name = SIM06232014.0010.RAW
Sample Name = CCS
Date Taken = 6/23/2014 4:10:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80213	0.0795 *
4	3.63	t-Butanol	156592	1.0347
5	4.44	n-Propanol	193743	1.0000

14-05-100

83

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

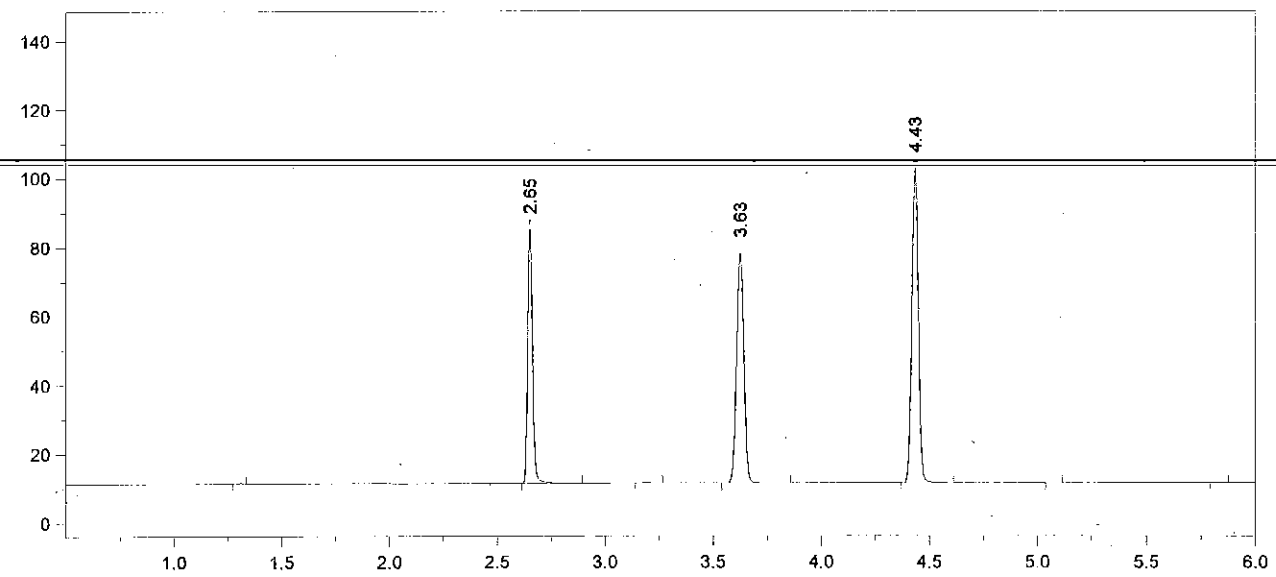
Today's Date = 6/23/2014
Today's Time = 4:24:11 PM
Bound File Name = SIM06232014.0011.RAW
Sample Name = CCS
Date Taken = 6/23/2014 4:24:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84903	0.0813 *
4	3.63	t-Butanol	152592	0.9744
5	4.44	n-Propanol	200479	1.0000

Avg # 10 + #11 = 0.080
RLM 6/24/14

14-05-100 84 RLM

Chrom Perfect Chromatogram Report



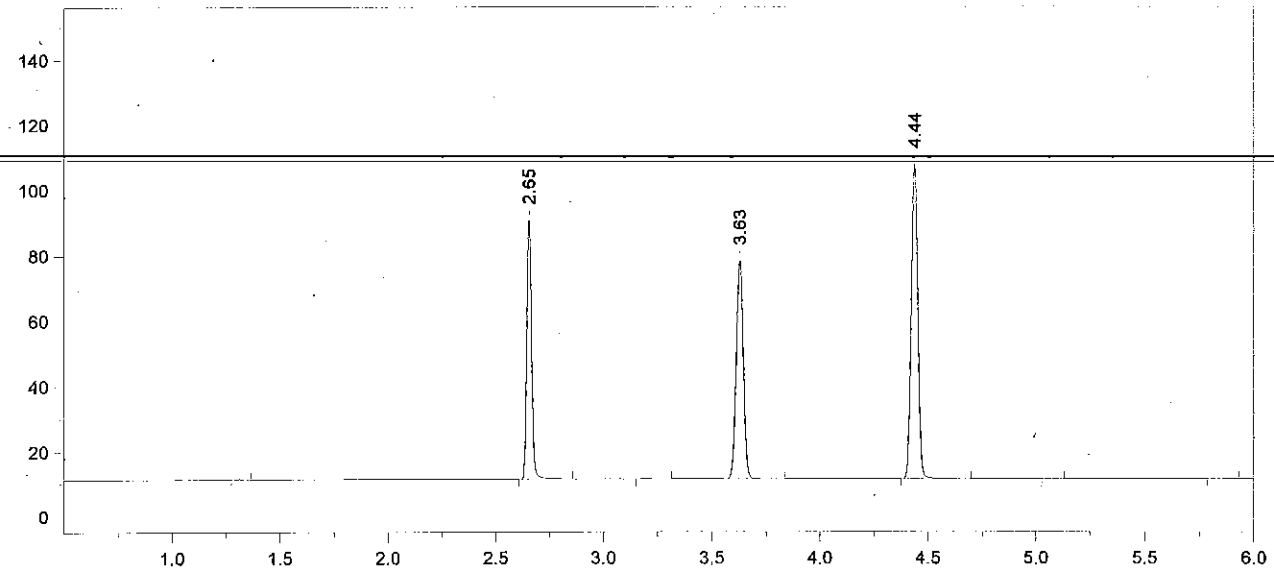
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 4:41:41 PM
Bound File Name = SIM06232014.0012.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 4:41:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	115351	0.1145	0.0934
4	3.63	t-Butanol	155110	1.0264	0.8377
5	4.43	n-Propanol	193473	1.0000	0.8162

14-05-100 85 RLM

Chrom Perfect Chromatogram Report



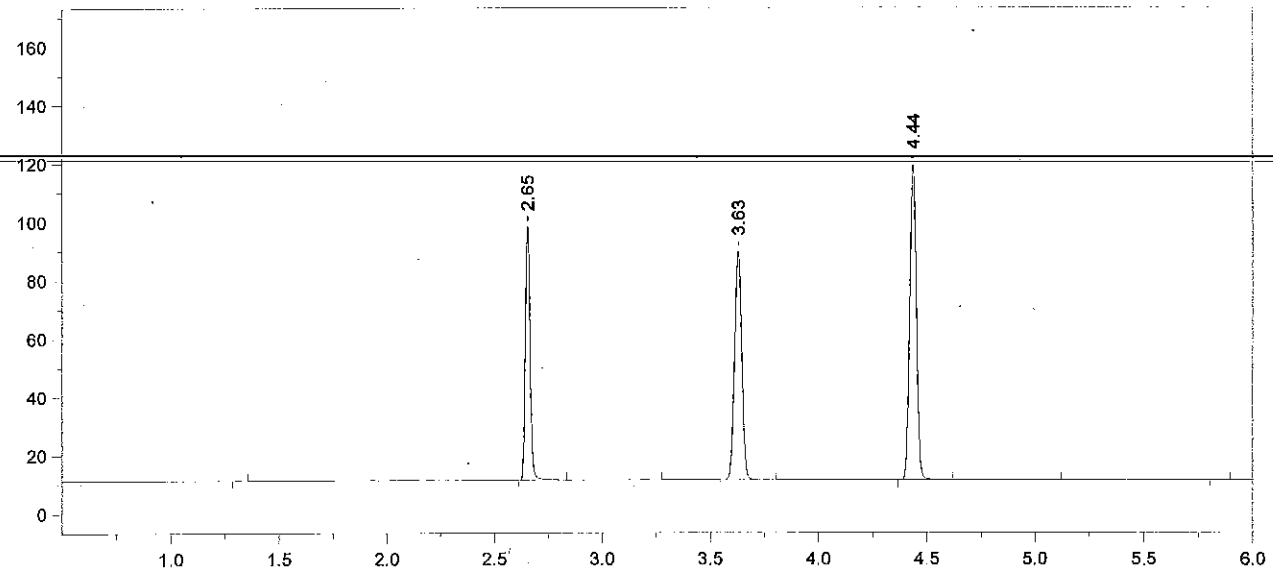
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 4:55:34 PM
Bound File Name = SIM06232014.0013.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 4:55:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123530	0.1158	0.0945
4	3.63	t-Butanol	154976	0.9686	0.7905
5	4.44	n-Propanol	204839	1.0000	0.8162

14-05-100 86 RLM

Chrom Perfect Chromatogram Report



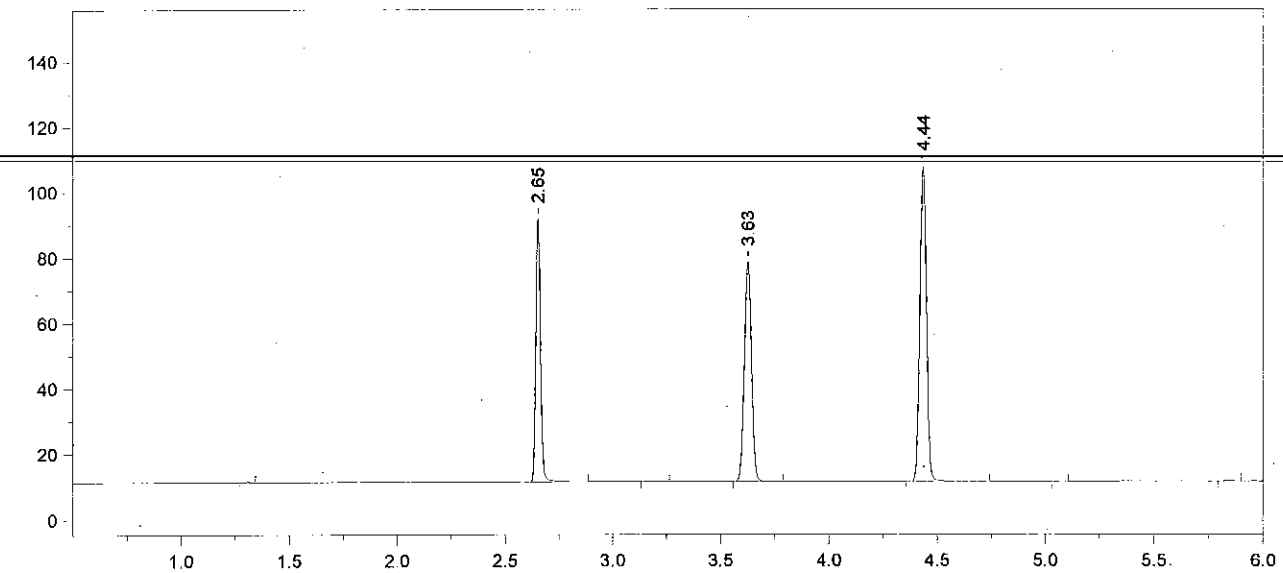
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 5:11:25 PM
Bound File Name = SIM06232014.0014.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 5:11:18 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	134912	0.1131	0.0923
4	3.63	t-Butanol	181453	1.0139	0.8275
5	4.44	n-Propanol	229122	1.0000	0.8162

14-05-100 87 RLM

Chrom Perfect Chromatogram Report



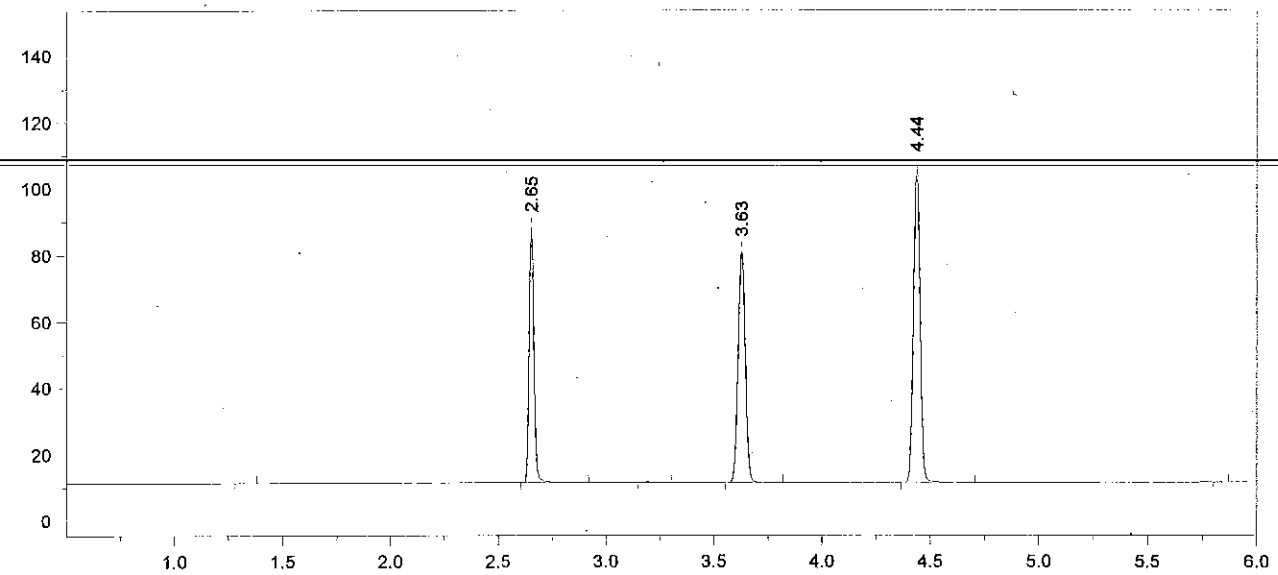
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 5:26:57 PM
Bound File Name = SIM06232014.0015.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 5:26:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123950	0.1161	0.0947
4	3.63	t-Butanol	155107	0.9682	0.7903
5	4.44	n-Propanol	205081	1.0000	0.8162

14-05-100 88 RLM

Chrom Perfect Chromatogram Report

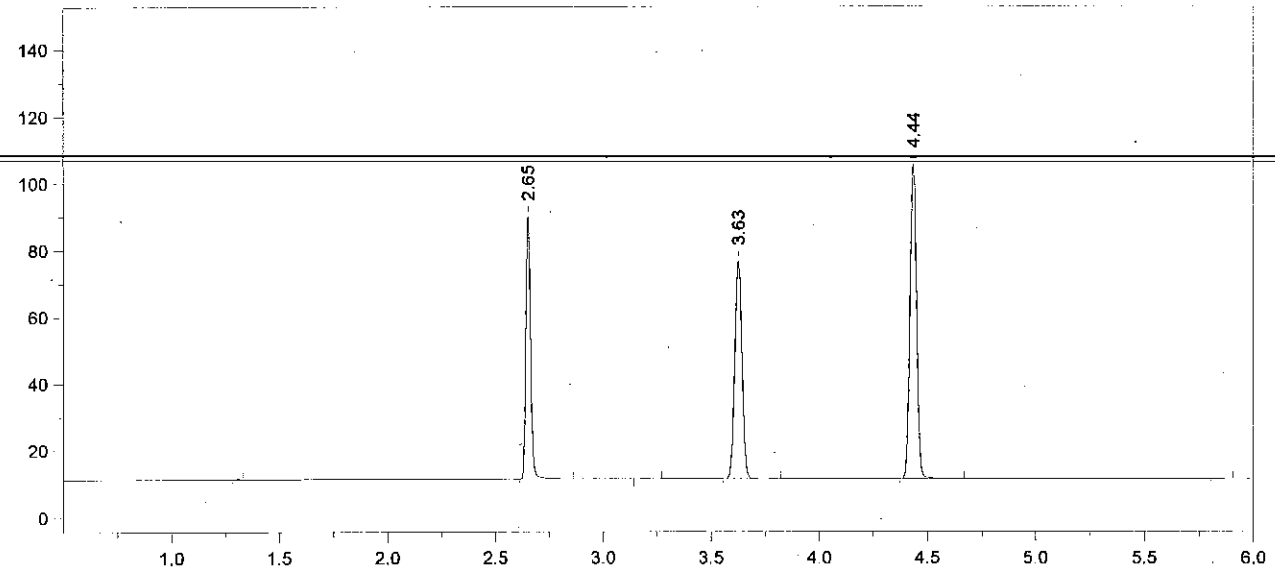


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 5:43:00 PM
Bound File Name = SIM06232014.0016.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 5:42:50 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	119734	0.1142	0.0932
4	3.63	t-Butanol	161311	1.0255	0.8370
5	4.44	n-Propanol	201369	1.0000	0.8162

14-05-100 89 RLM



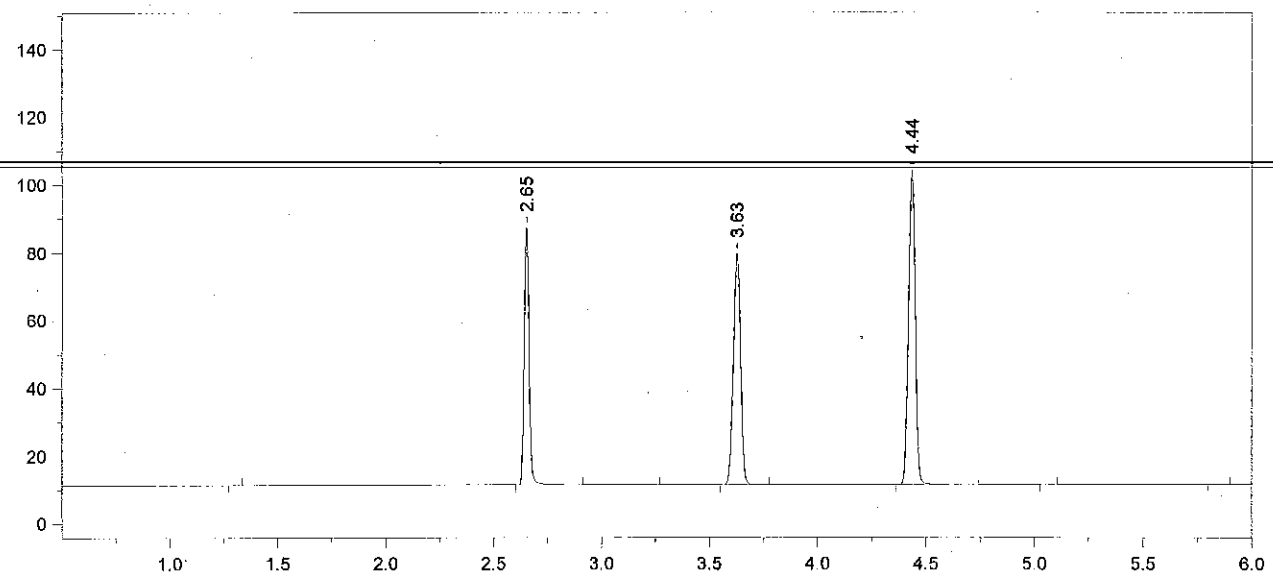
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014
Today's Time = 5:57:12 PM
Bound File Name = SIM06232014.0017.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 5:57:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121278	0.1165	0.0951
4	3.63	t-Butanol	150707	0.9648	0.7875
5	4.44	n-Propanol	199971	1.0000	0.8162

14-05-100 90 RLM

Chrom Perfect Chromatogram Report



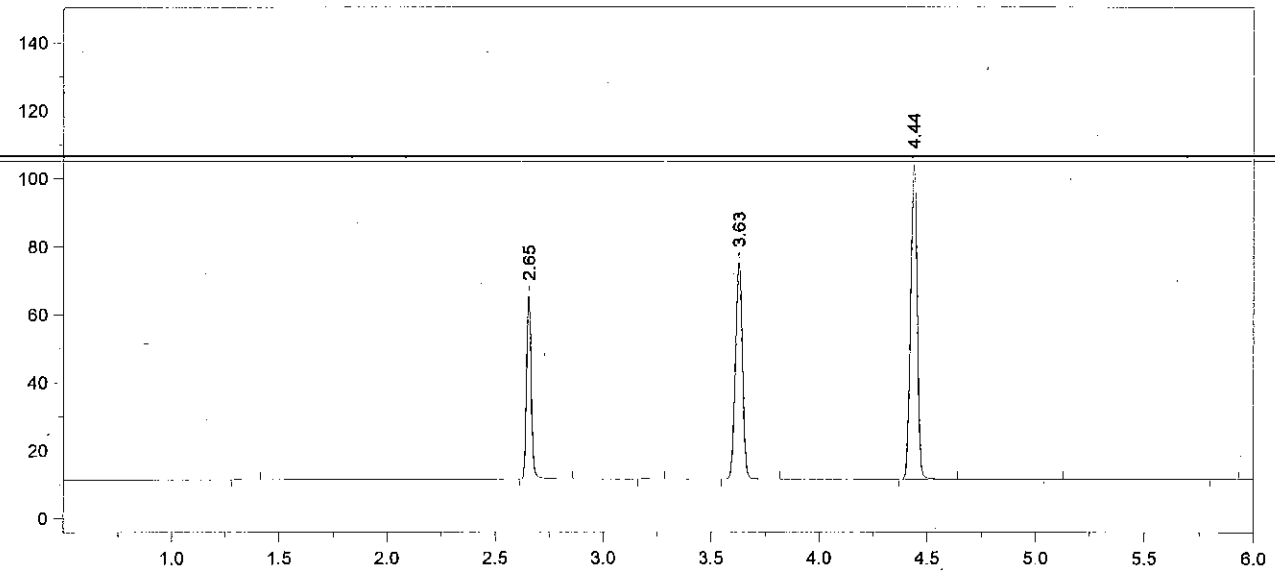
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 6:14:21 PM
Bound File Name = SIM06232014.0018.RAW
Sample Name = RLM 0.1
Date Taken = 6/23/2014 6:14:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117232	0.1140	0.0930
4	3.63	t-Butanol	157965	1.0237	0.8356
5	4.44	n-Propanol	197542	1.0000	0.8162

14-05-100 91

Chrom Perfect Chromatogram Report

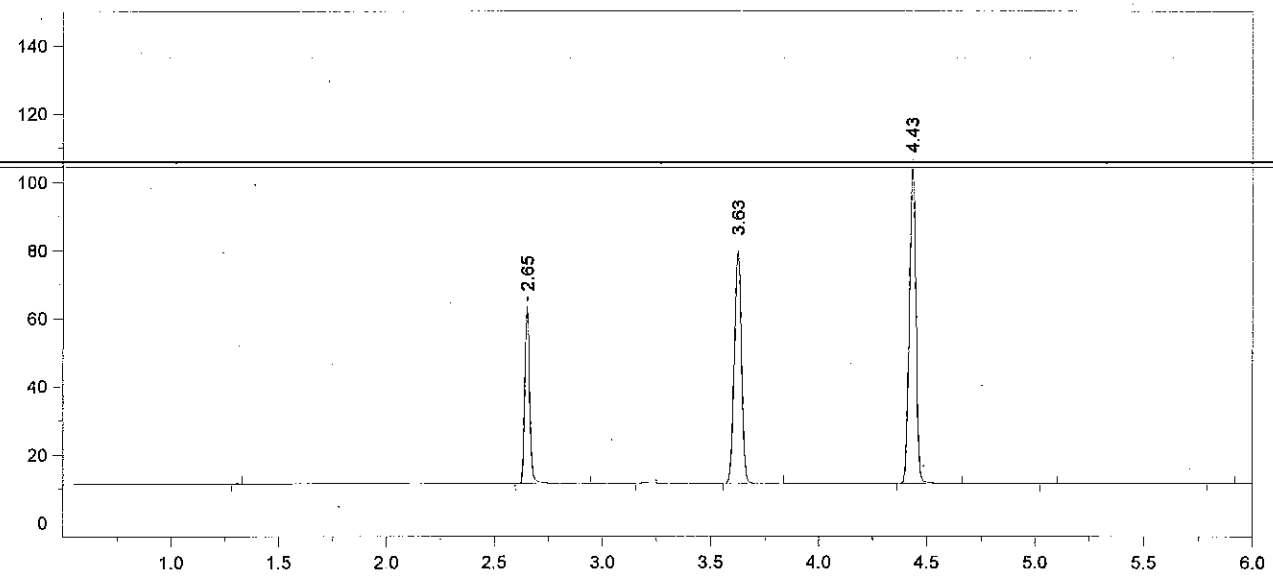


Format File Name = AlcoholVFL.FMT

Today's Date = 6/23/2014
Today's Time = 6:28:28 PM
Bound File Name = SIM06232014.0019.RAW
Sample Name = CCS
Date Taken = 6/23/2014 6:28:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83833	0.0820 *
4	3.63	t-Butanol	147641	0.9630
5	4.44	n-Propanol	196276	1.0000

14-05-100 92



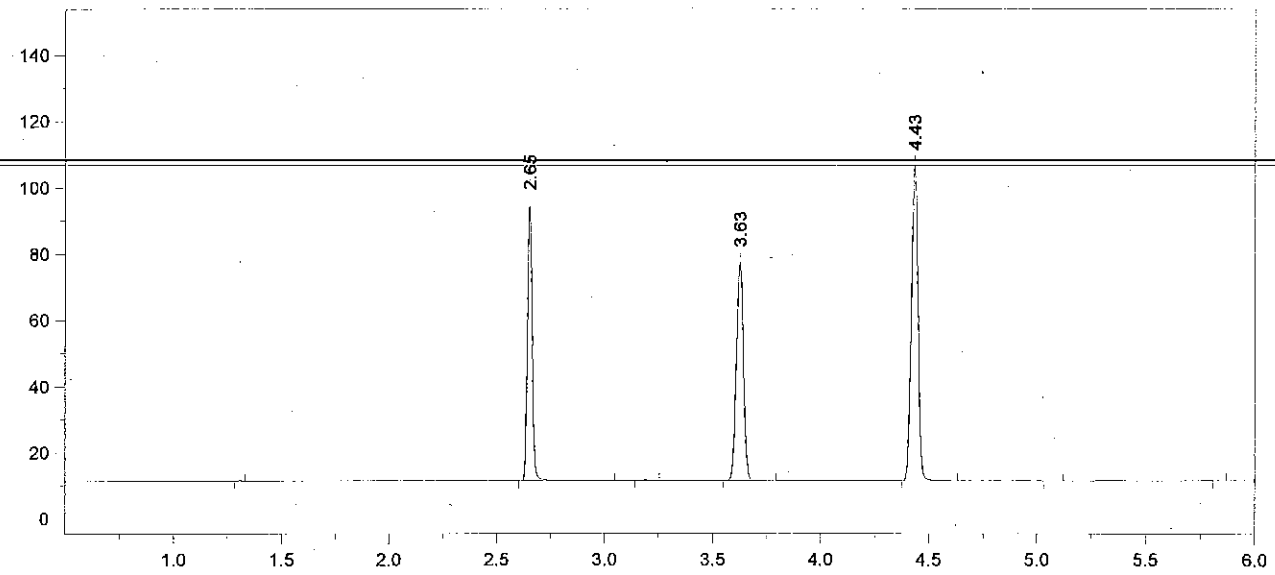
Format File Name = AlcoholVFL.FMT

Today's Date = 6/23/2014
Today's Time = 6:45:50 PM
Bound File Name = SIM06232014.0020.RAW
Sample Name = CCS
Date Taken = 6/23/2014 6:45:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80797	0.0793 *
4	3.63	t-Butanol	157852	1.0330
5	4.43	n-Propanol	195629	1.0000

Avg # 19 + # 20 = 0.080
RZM 6/24/14

14-05-100 93 RZM



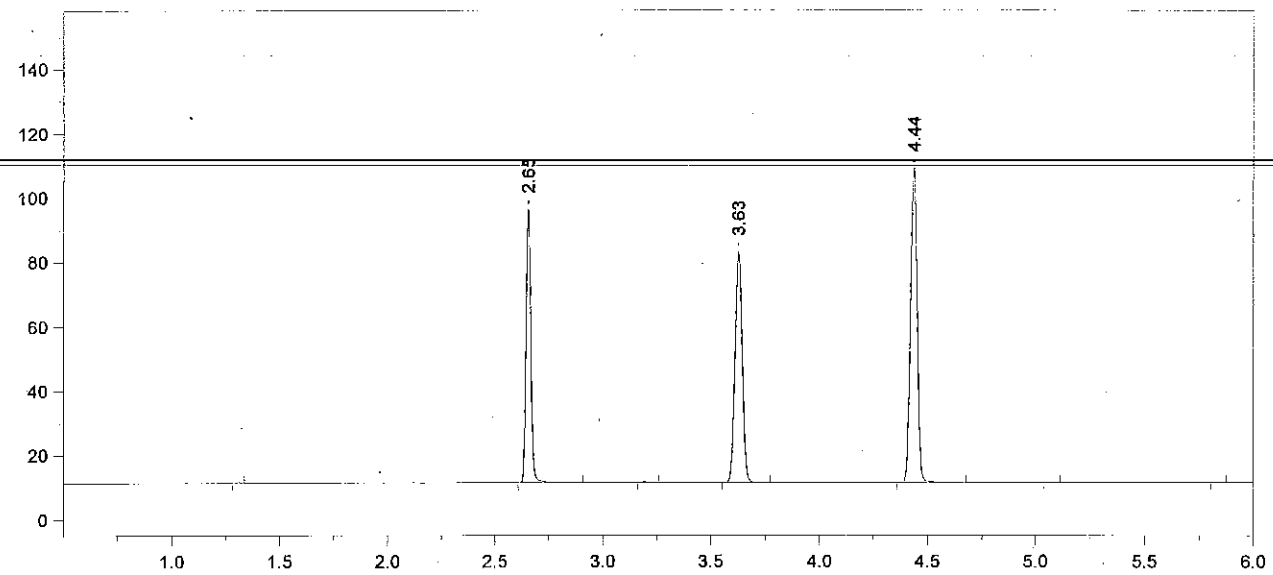
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 6:59:37 PM
Bound File Name = SIM06232014.0021.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 6:59:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129799	0.1238	0.1010
4	3.63	t-Butanol	152828	0.9717	0.7931
5	4.43	n-Propanol	201346	1.0000	0.8162

14-05-100 94

Chrom Perfect Chromatogram Report

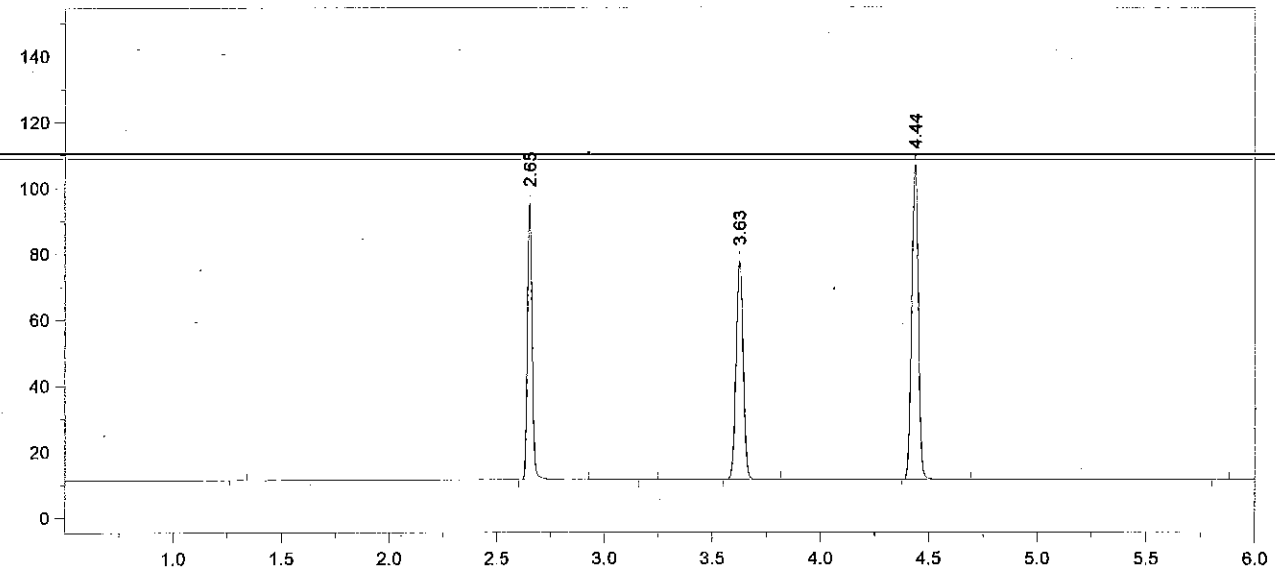


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 7:15:31 PM
Bound File Name = SIM06232014.0022.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 7:15:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130650	0.1206	0.0984
4	3.63	t-Butanol	165875	1.0205	0.8329
5	4.44	n-Propanol	208084	1.0000	0.8162

14-05-100 95 KZM



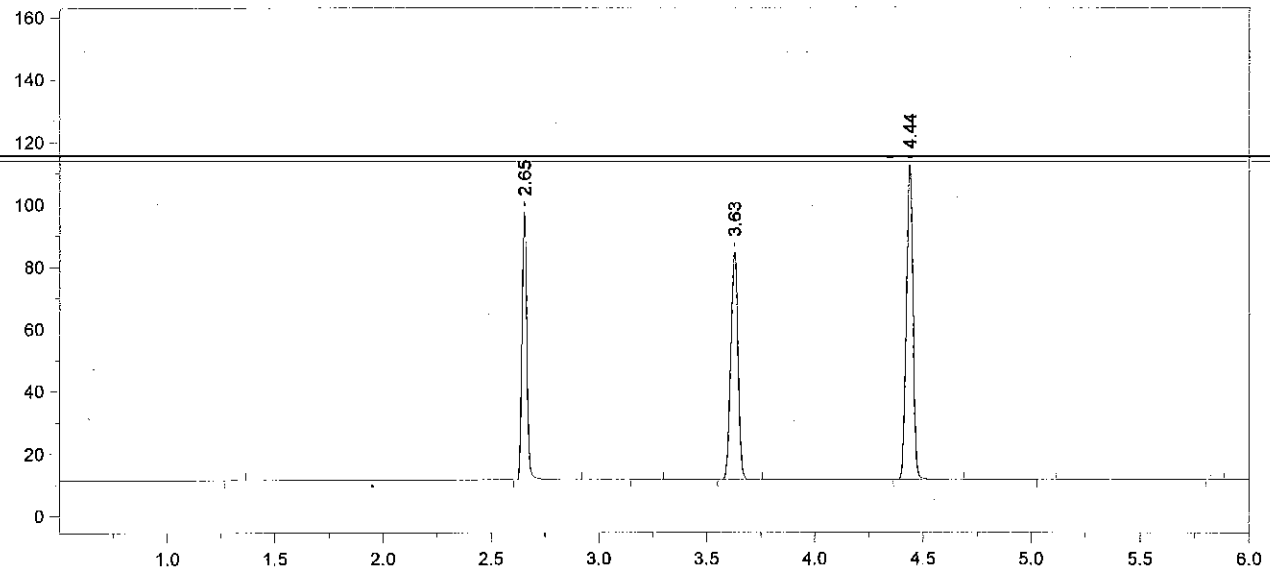
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 7:30:30 PM
Bound File Name = SIM06232014.0023.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 7:30:21 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129432	0.1226	0.1001
4	3.63	t-Butanol	153618	0.9700	0.7918
5	4.44	n-Propanol	202736	1.0000	0.8162

14-05-100 96 RZM

Chrom Perfect Chromatogram Report



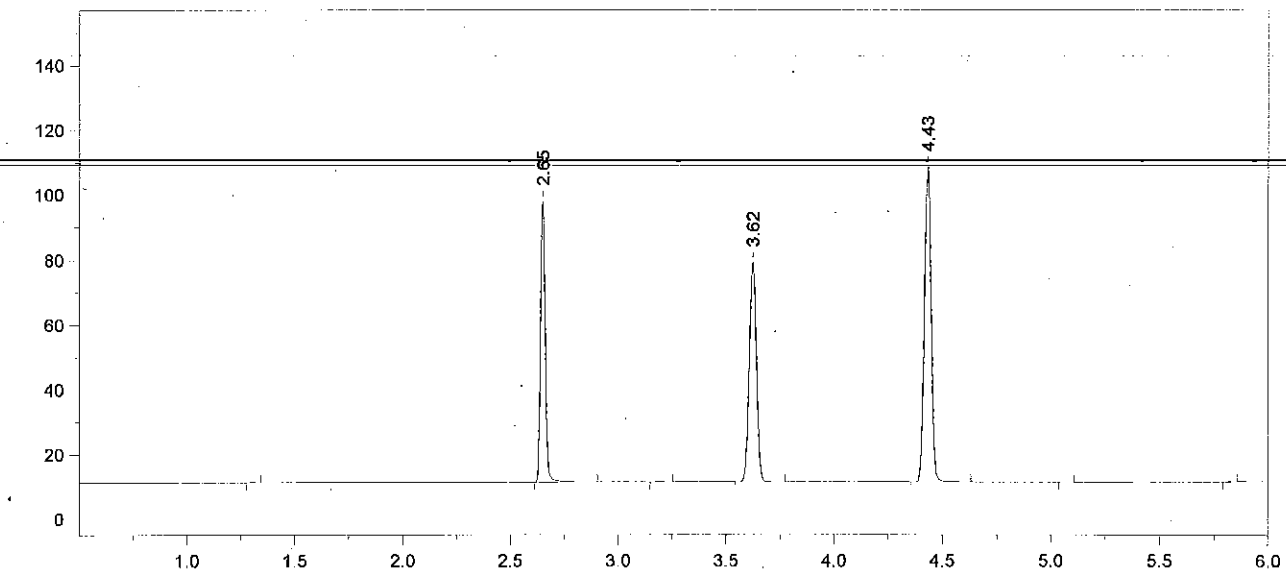
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 7:45:21 PM
Bound File Name = SIM06232014.0024.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 7:45:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133485	0.1201	0.0980
4	3.63	t-Butanol	169363	1.0159	0.8292
5	4.44	n-Propanol	213418	1.0000	0.8162

14-05-100 97 KM

Chrom Perfect Chromatogram Report



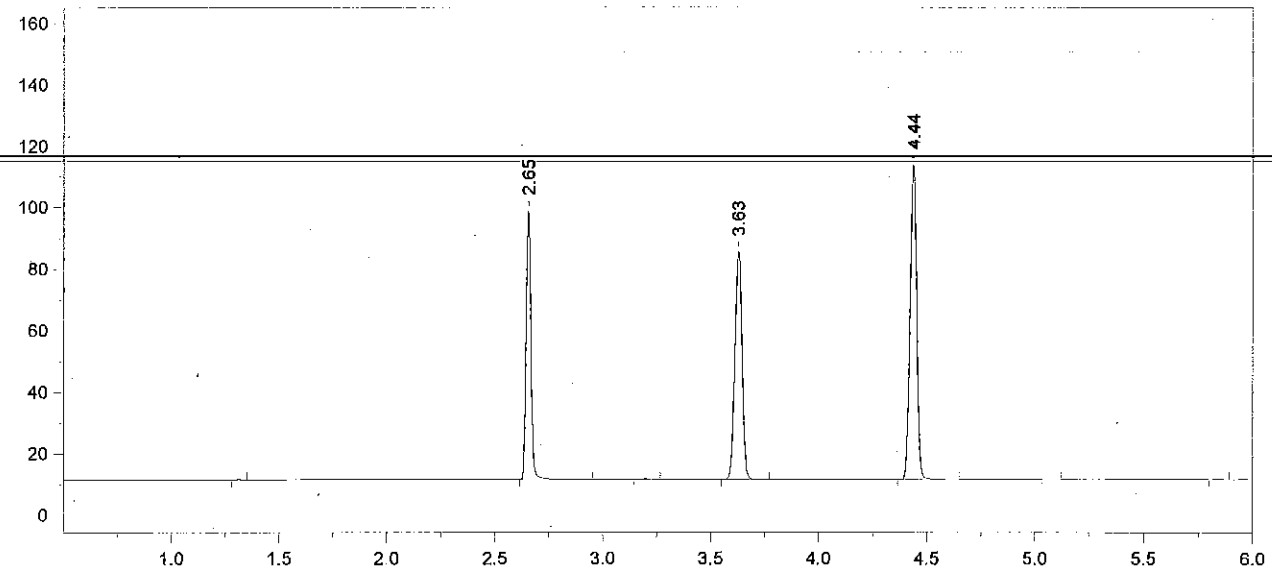
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 8:00:55 PM
Bound File Name = SIM06232014.0025.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 8:00:45 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133347	0.1239	0.1011
4	3.62	t-Butanol	155863	0.9657	0.7882
5	4.43	n-Propanol	206631	1.0000	0.8162

14.05-100 98

Chrom Perfect Chromatogram Report

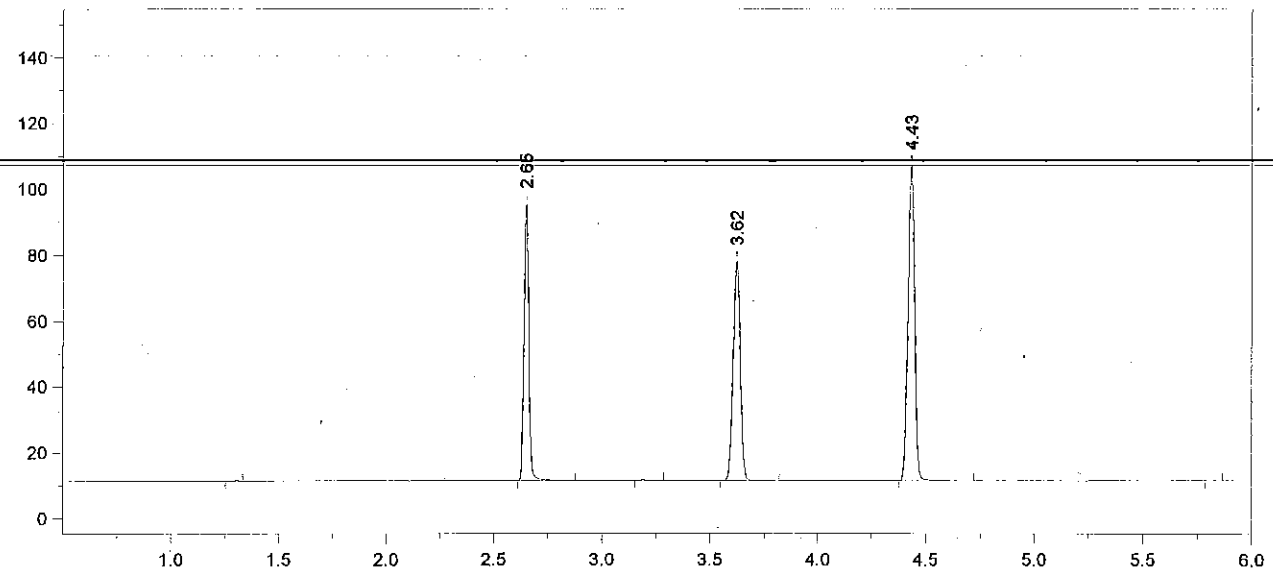


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 8:15:14 PM
Bound File Name = SIM06232014.0026.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 8:15:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	135485	0.1205	0.0983
4	3.63	t-Butanol	171596	1.0171	0.8302
5	4.44	n-Propanol	215982	1.0000	0.8162

14-05-100 99 KZM



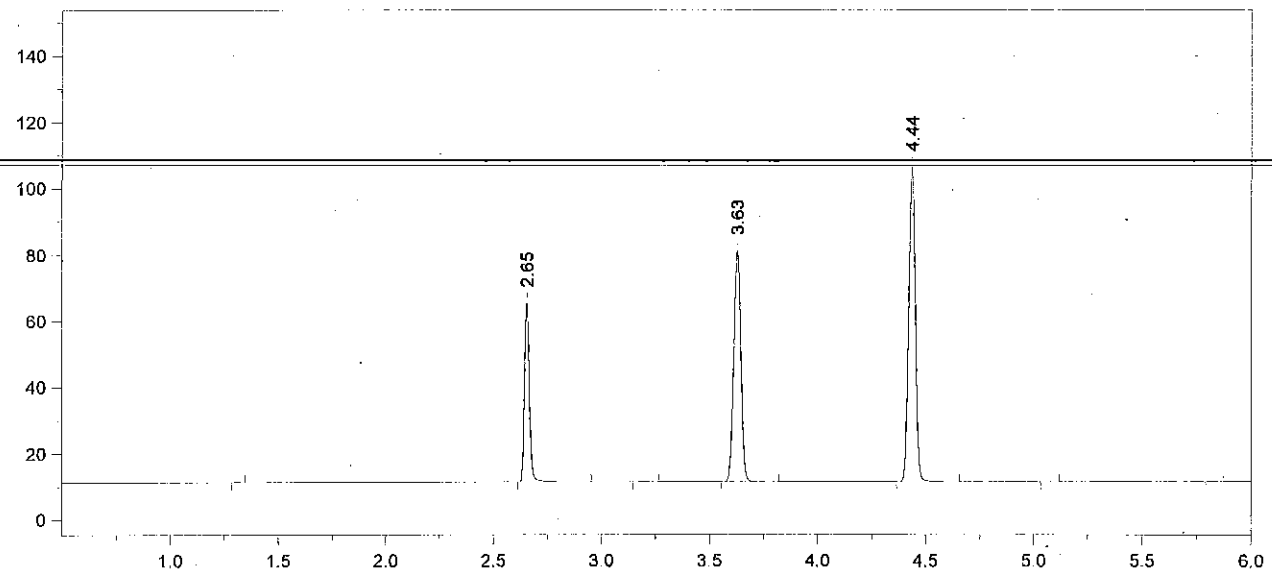
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/23/2014 Today's Time = 8:31:14 PM
Bound File Name = SIM06232014.0027.RAW
Sample Name = TLC 0.1
Date Taken = 6/23/2014 8:31:07 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM06232014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128983	0.1222	0.0998
4	3.62	t-Butanol	154031	0.9732	0.7943
5	4.43	n-Propanol	202617	1.0000	0.8162

14-05-100 100

Chrom Perfect Chromatogram Report



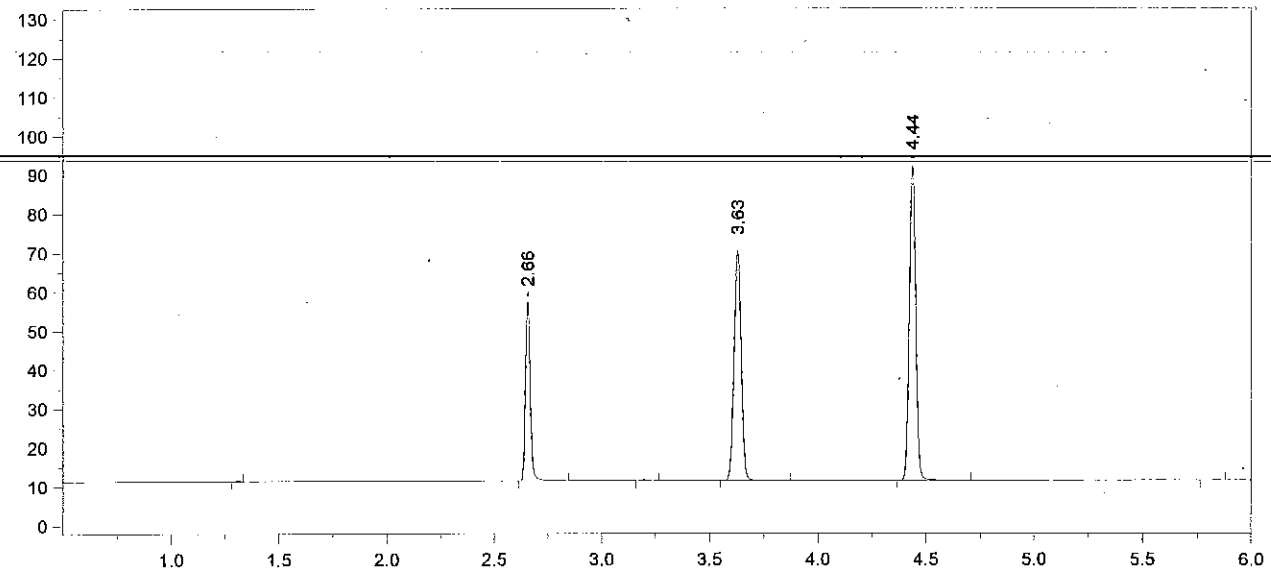
Format File Name = AlcoholVFL.FMT

Today's Date = 6/23/2014
Today's Time = 8:47:17 PM
Bound File Name = SIM06232014.0028.RAW
Sample Name = CCS
Date Taken = 6/23/2014 8:47:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84031	0.0802 *
4	3.63	t-Butanol	161348	1.0265
5	4.44	n-Propanol	201221	1.0000

14-05-100 101 RZM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 6/23/2014
Today's Time = 9:01:35 PM
Bound File Name = SIM06232014.0029.RAW
Sample Name = CCS
Date Taken = 6/23/2014 9:01:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM06232014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	71527	0.0801 *
4	3.63	t-Butanol	136733	1.0210
5	4.44	n-Propanol	171442	1.0000

Avg # 28 & #29 = 0.080
RZM 6/24/14

14-05-100 102 RZM