VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 6/24/2015, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 15-09-100 and an expiration date of 6/24/2016.

On 6/25/2015 and 7/8/2015, the solution was analyzed against calibration VFL06252015 and VFL07082015. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

This solution is certified as presenting 0.099 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont this 15th day of July, 2015.

Amanda Bolduc

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION REVIEW CHECKLIST

SOLUTION TYPE AND VOLUME: 20L 0.10 EXTERNAL STANDARD

LOT NUMBER#: 15-09-100 **ANALYST:** ALB

TECHNICAL REVIEWER: [signature] **DATE:** 7/13/2015

- [X] X QC done and complete?
- [X] X Pertinent standard lot numbers listed?
- [X] X Data package complete?
- [X] X Transcribed data and calculations verified?
- [X] X Calibration and control results all within ± 10% (± 20% for Std A) of the known values?
- [X] X Calibration line correlation factor at least 0.99xx?
- [X] X Average error for components of the calibration line less than 10%?
- [X] X Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
- [X] X Surrogate compound concentrations all within 0.900 to 1.100 range, inclusive?
- [X] X Statistical means of the continuing calibration check sample duplicate analysis all within +/- 10% of the known value?
- [X] X Calculated average within acceptable range of the target concentration for specific solution type?
- [X] X All individual readings within 3 standard deviations of the average for each run and for the total average?
- [X] RPD <10%?

Comments:

ADMINISTRATIVE REVIEWER: [signature] **DATE:** 7/15/2015

- [X] Are all pages numbered and initialed on the Examination Documents?
- [X] Solution lot number written on all pages?
- [X] Is the Reagent Preparation Log filled out properly?
- [X] Is the Certificate of Analysis filled out properly?
- [X] Has a label sheet been created, and is it correct?

Comments:

Check Mark or X = pass, NA= Not Applicable

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.100 20L External Standard
Lot # 15-09-100
Prepared 6/24/2015 by ALB
Exp 6/24/2016

ALB CAL VFL06252015
ALB/DJP Vials
Analyzed on 6/25/2015

0.0983	DJP
0.1010	
0.0980	
0.1005	
0.0977	
0.1011	
0.0993	
0.1011	ALB
0.0993	
0.1009	
0.0988	
0.1009	
0.0988	
0.1002	

Ave. =	0.0997
Std Dev. =	0.0012
Min. =	0.0977
Max. =	0.1011

AQ QC Manf.	Cerilliant
AQ QC Lot #	FN021111-03
Cal Std A Lot #	FN01131401
Cal Std B Lot #	FN08101401
Cal Std C Lot #	FN05211402
Cal Std D Lot #	FN032712-01
Cal Std E Lot #	FN012712-01
Int Std Lot #	IS-06022015-A
TMX Lot #	TMX-08112014
Blank Lot #	BL-01162015

AS 7/10/15

DJP CAL VFL07082015
DJP/ALB Vials
Analyzed on 7/8/2015

0.0964	ALB
0.0989	
0.0971	
0.0993	
0.0975	
0.1000	
0.0968	
0.0984	DJP
0.0969	
0.0968	
0.0965	
0.0994	
0.0973	
0.1004	

Ave. =	0.0980
Std Dev. =	0.0014
Min. =	0.0964
Max. =	0.1004

AQ QC Manf.	Cerilliant
AQ QC Lot #	FN021111-03
Cal Std A Lot #	FN01131401
Cal Std B Lot #	FN08101401
Cal Std C Lot #	FN05211402
Cal Std D Lot #	FN032712-01
Cal Std E Lot #	FN012712-01
Int Std Lot #	IS-06022015-A
TMX Lot #	TMX-08112014
Blank Lot #	BL-01162015

Total Values from Both Runs

Average	**Mean**
0.0983	0.0964
0.1010	0.0965
0.0980	0.0968
0.1005	
0.0977	0.0969
0.1011	0.0971
0.0993	0.0973
0.1011	0.0975
0.0993	0.0977
0.1009	0.0980
0.0988	0.0983
0.1009	0.0984
0.0988	0.0988
0.1002	
0.0964	0.0989
0.0989	0.0993
0.0971	
0.0993	
0.0975	0.0994
0.1000	0.1000
0.0968	0.1002
0.0984	0.1004
0.0969	0.1005
0.0968	0.1009
0.0965	0.1009
0.0994	0.1010
0.0973	0.1011
0.1004	

Ave. =	0.0988
Avg Std Dev. =	0.0016
Mean =	0.0988
Mean Std Dev. =	0.0016
Min. =	0.0964
Max =	0.1011
RPD =	4.76%

1 of ~~162~~ 163 AB 7/13/15

ALC_F201_2_v1_12182014
Approved by Lab Director

File Name = C:\Alcohol Data\VFL06252015\VFL06252015.SEQ
Version = 3
File Date = 6/26/2015 8:30:25 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL06252015.0001.raw	Blood Alc temp VFL.MET	BLANK	1.00	1.00
2	VFL06252015.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL06252015.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL06252015.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL06252015.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL06252015.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL06252015.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL06252015.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL06252015.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL06252015.0010.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
11	VFL06252015.0011.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
12	VFL06252015.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL06252015.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL06252015.0014.raw	Blood Alc temp VFL.MET	V15-1027 A1-1 casework samples not included 7/6/15 AB	1.00	1.00
15	VFL06252015.0015.raw	Blood Alc temp VFL.MET	V15-1027 A1-1	1.00	1.00
16	VFL06252015.0016.raw	simsoln.met	.02 DP	1.00	1.00
17	VFL06252015.0017.raw	simsoln.met	.02 DP	1.00	1.00
18	VFL06252015.0018.raw	simsoln.met	.02 DP	1.00	1.00
19	VFL06252015.0019.raw	simsoln.met	.02 DP	1.00	1.00
20	VFL06252015.0020.raw	simsoln.met	.02 DP	1.00	1.00
21	VFL06252015.0021.raw	simsoln.met	.02 DP	1.00	1.00
22	VFL06252015.0022.raw	simsoln.met	.02 DP	1.00	1.00
23	VFL06252015.0023.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
24	VFL06252015.0024.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
25	VFL06252015.0025.raw	simsoln.met	.02 ALB	1.00	1.00
26	VFL06252015.0026.raw	simsoln.met	.02 ALB	1.00	1.00
27	VFL06252015.0027.raw	simsoln.met	.02 ALB	1.00	1.00
28	VFL06252015.0028.raw	simsoln.met	.02 ALB	1.00	1.00
29	VFL06252015.0029.raw	simsoln.met	.02 ALB	1.00	1.00
30	VFL06252015.0030.raw	simsoln.met	.02 ALB	1.00	1.00
31	VFL06252015.0031.raw	simsoln.met	.02 ALB	1.00	1.00
32	VFL06252015.0032.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
33	VFL06252015.0033.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
34	VFL06252015.0034.raw	simsoln.met	.10 DP	1.00	1.00
35	VFL06252015.0035.raw	simsoln.met	.10 DP	1.00	1.00
36	VFL06252015.0036.raw	simsoln.met	.10 DP	1.00	1.00
37	VFL06252015.0037.raw	simsoln.met	.10 DP	1.00	1.00
38	VFL06252015.0038.raw	simsoln.met	.10 DP	1.00	1.00
39	VFL06252015.0039.raw	simsoln.met	.10 DP	1.00	1.00
40	VFL06252015.0040.raw	simsoln.met	.10 DP	1.00	1.00
41	VFL06252015.0041.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
42	VFL06252015.0042.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
43	VFL06252015.0043.raw	simsoln.met	.10 ALB	1.00	1.00
44	VFL06252015.0044.raw	simsoln.met	.10 ALB	1.00	1.00
45	VFL06252015.0045.raw	simsoln.met	.10 ALB	1.00	1.00
46	VFL06252015.0046.raw	simsoln.met	.10 ALB	1.00	1.00
47	VFL06252015.0047.raw	simsoln.met	.10 ALB	1.00	1.00
48	VFL06252015.0048.raw	simsoln.met	.10 ALB	1.00	1.00
49	VFL06252015.0049.raw	simsoln.met	.10 ALB	1.00	1.00
50	VFL06252015.0050.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
51	VFL06252015.0051.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
52	VFL06252015.0052.raw	Blood Alc temp VFL.MET	CCS 06262015	1.00	1.00
53	VFL06252015.0053.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
54	VFL06252015.0054.raw	simsoln.met	.04 DP	1.00	1.00
55	VFL06252015.0055.raw	simsoln.met	.04 DP	1.00	1.00
56	VFL06252015.0056.raw	simsoln.met	.04 DP	1.00	1.00
57	VFL06252015.0057.raw	simsoln.met	.04 DP	1.00	1.00
58	VFL06252015.0058.raw	simsoln.met	.04 DP	1.00	1.00
59	VFL06252015.0059.raw	simsoln.met	.04 DP	1.00	1.00
60	VFL06252015.0060.raw	simsoln.met	.04 DP	1.00	1.00
61	VFL06252015.0061.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
62	VFL06252015.0062.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

separate lot of sim not included 7/6/15 AB

0.40 AB 7/6/15

All samples run beginning at #52 run within 24 hrs of calibration 7/6/15 AB

15-09-100 2 AB

Chrom Perfect Sequence File

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	VFL06252015.0063.raw	simsoln.met	~~.04~~ AB	1.00	1.00
64	VFL06252015.0064.raw	simsoln.met	.04 AB	1.00	1.00
65	VFL06252015.0065.raw	simsoln.met	.04 AB	1.00	1.00
66	VFL06252015.0066.raw	simsoln.met	.04 AB	1.00	1.00
67	VFL06252015.0067.raw	simsoln.met	.04 AB	1.00	1.00
68	VFL06252015.0068.raw	simsoln.met	.04 AB	1.00	1.00
69	VFL06252015.0069.raw	simsoln.met	.04 AB	1.00	1.00
70	VFL06252015.0070.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
71	VFL06252015.0071.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

0.40 AB 7/6/15

0.40 Samples are separate lot 8 sim not included 7/6/15

File Name: C:\Methods\VFL06252015.CAL
Version: 7

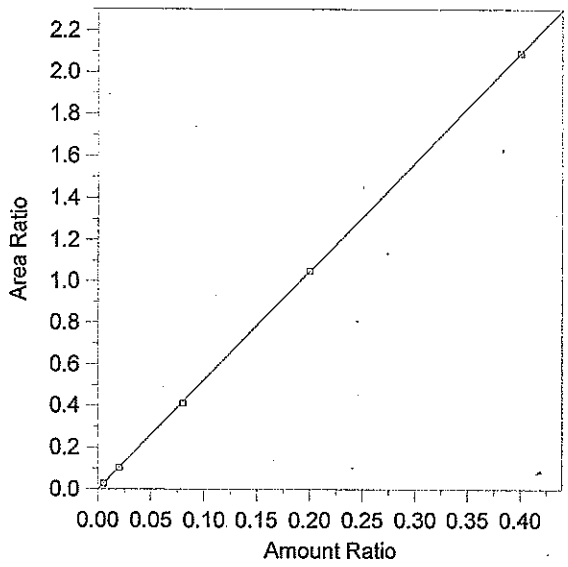
Creator:
Description:
Reason for change:

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

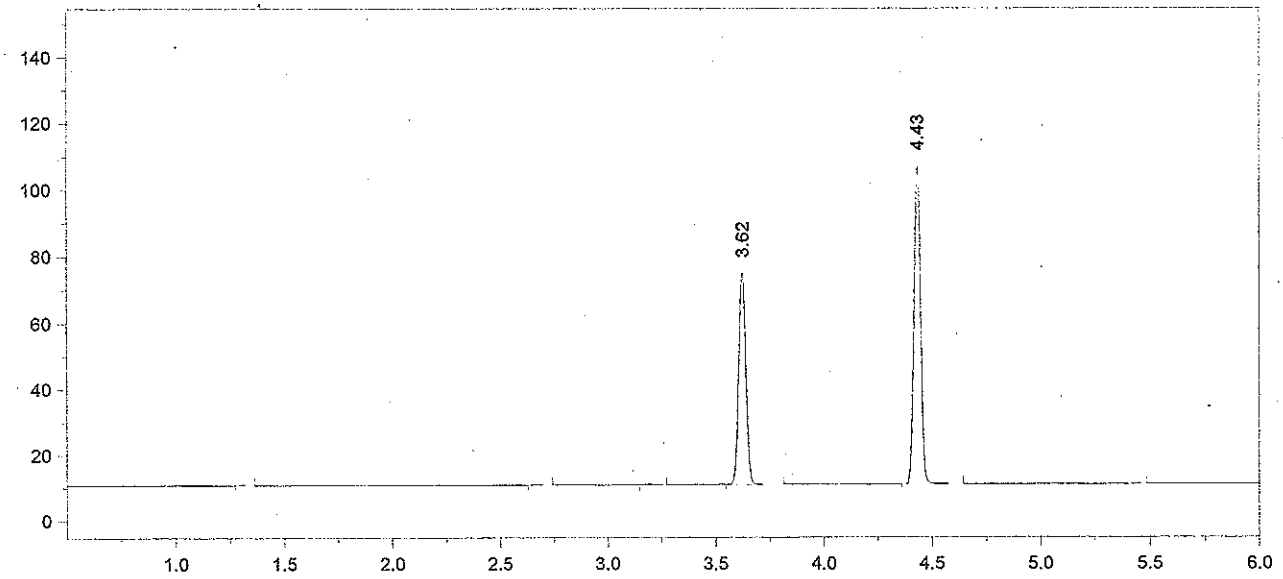
Single peak quantification by area

Y = 5.231585 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.999973
Average error: 2.029%
Average CF: 5.266972
RSD: 3.298%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.005	4754.402	950880.4	6.368	0.005	2.782365E-02	C:\Alcohol Data\VFL06252015\VFL06252015.0003.BND	6/25/2015 4:15:53 PM
3	0.02	17961.82	898091.1	-1.559	0.02	0.103	C:\Alcohol Data\VFL06252015\VFL06252015.0004.BND	6/25/2015 4:32:28 PM
4	0.08	82365.38	1029567	-1.798	0.08	0.4110004	C:\Alcohol Data\VFL06252015\VFL06252015.0005.BND	6/25/2015 4:47:25 PM
5	0.2	201059.2	1005296	0.396	0.2	1.050461	C:\Alcohol Data\VFL06252015\VFL06252015.0006.BND	6/25/2015 5:03:54 PM
6	0.4	425631.5	1064079	-0.024	0.4	2.092128	C:\Alcohol Data\VFL06252015\VFL06252015.0007.BND	6/25/2015 5:17:10 PM

15-09-100 4 AB

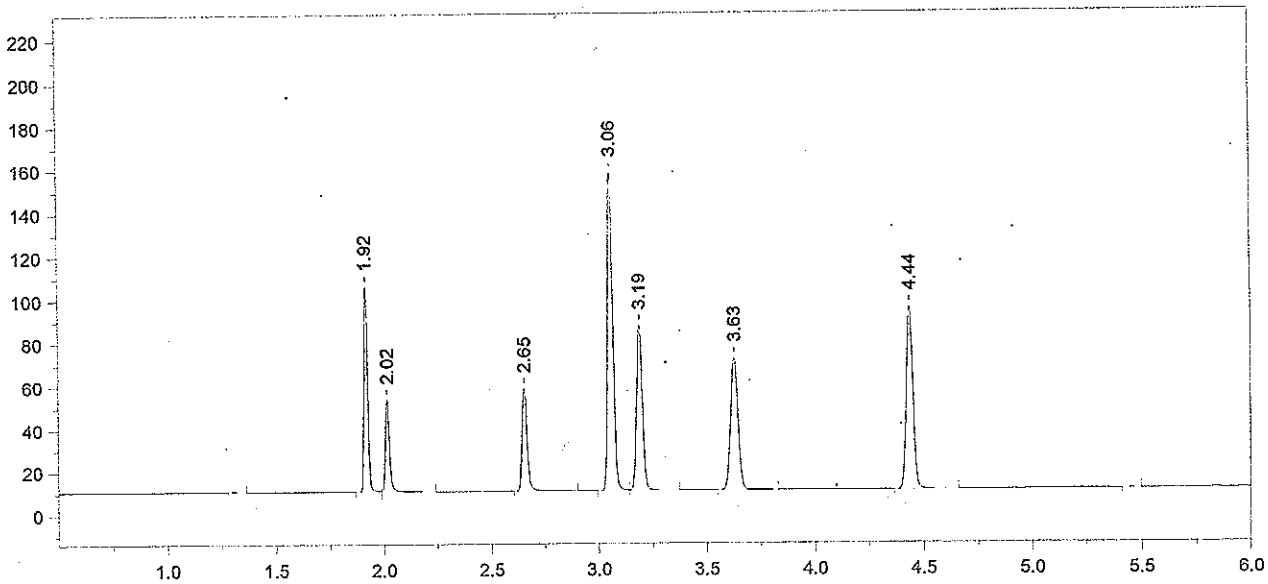


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:02 AM
Bound File Name = VFL06252015.0001.RAW
Sample Name = BLANK
Date Taken = 6/25/2015 3:43:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	148612	0.9597
5	4.43	n-Propanol	203609	1.0000

15-09-100 5 [illegible]

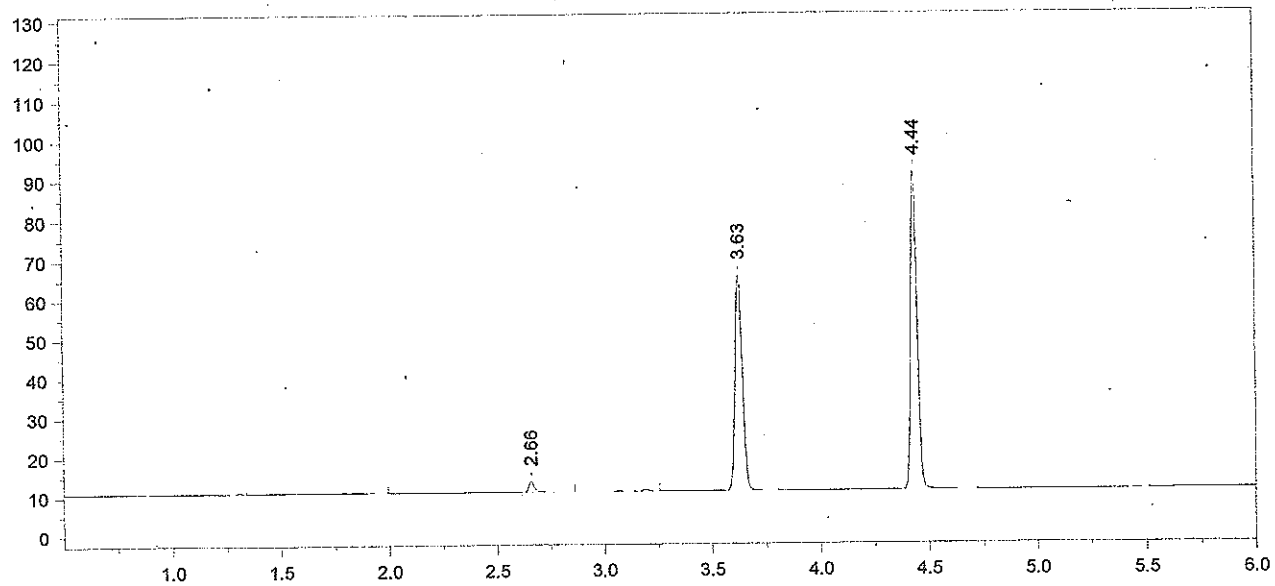


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:14 AM
Bound File Name = VFL06252015.0002.RAW
Sample Name = TMX
Date Taken = 6/25/2015 4:00:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	113494	0.0695
3	2.02	Methanol	54511	0.1232
4	2.65	Ethanol	75495	0.0799
5	3.06	Acetone	252676	0.0657
6	3.19	Isopropanol	144242	0.0848
7	3.63	t-Butanol	142037	1.0347
8	4.44	n-Propanol	180502	1.0000

15-09-100 6 HB



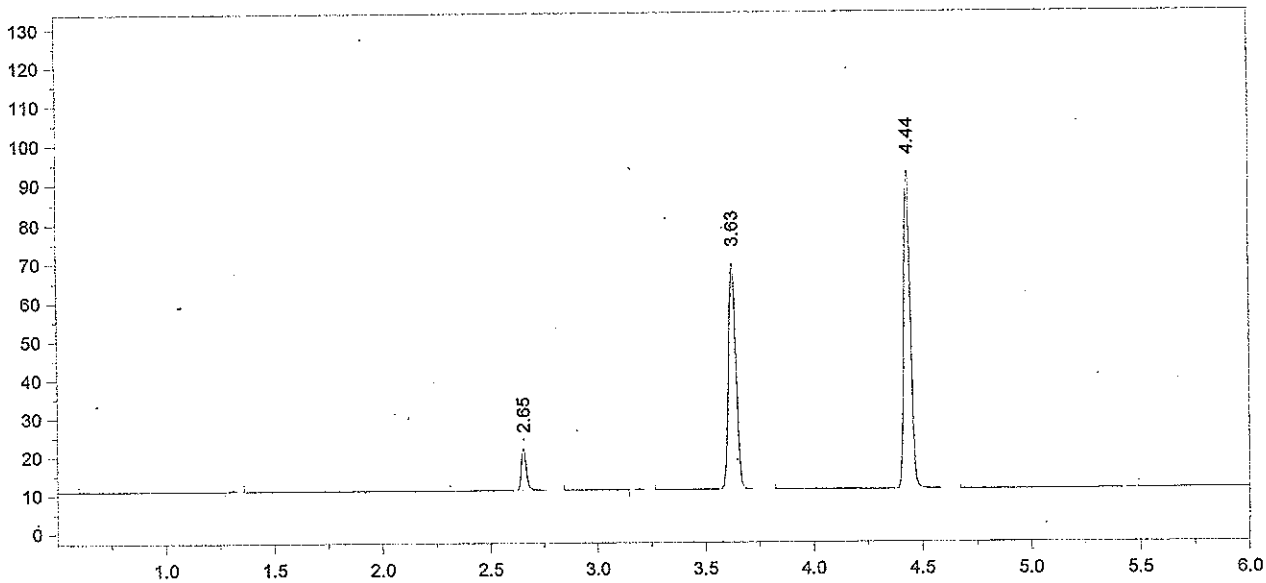
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:21 AM
Bound File Name = VFL06252015.0003.RAW
Sample Name = STD A
Date Taken = 6/25/2015 4:15:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	04754	0.0053
6	3.63	t-Butanol	126596	0.9741
7	4.44	n-Propanol	170876	1.0000

15-09-W

AB

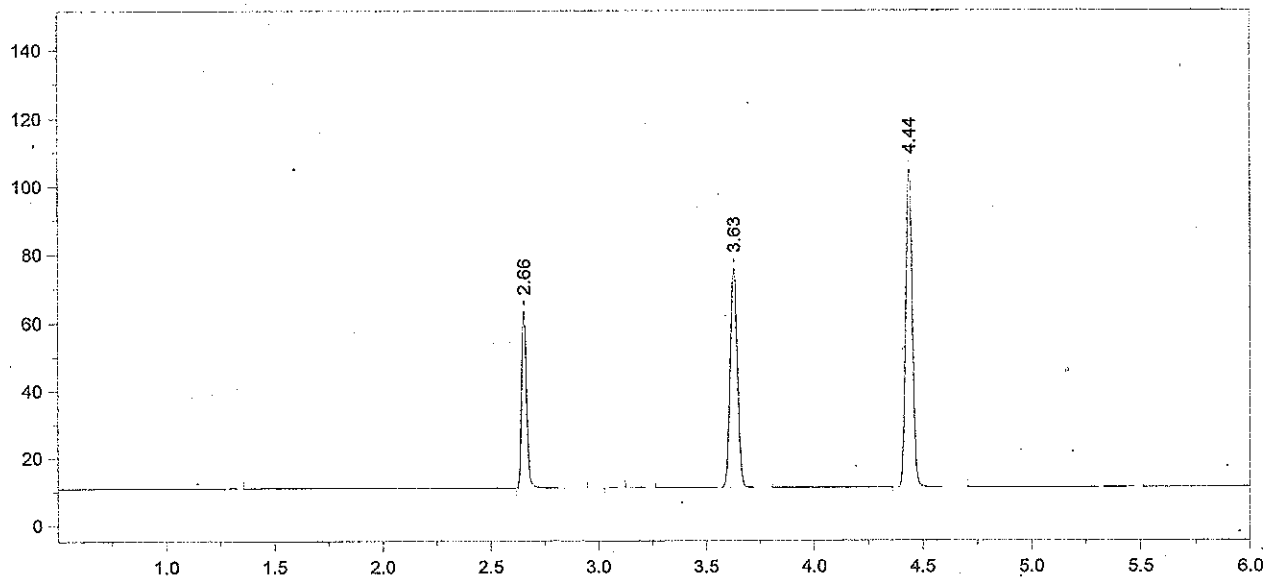


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:30 AM
Bound File Name = VFL06252015.0004.RAW
Sample Name = STD B
Date Taken = 6/25/2015 4:32:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	17962	0.0197
4	3.63	t-Butanol	136108	1.0263
5	4.44	n-Propanol	174387	1.0000

15-09-10 8 AB

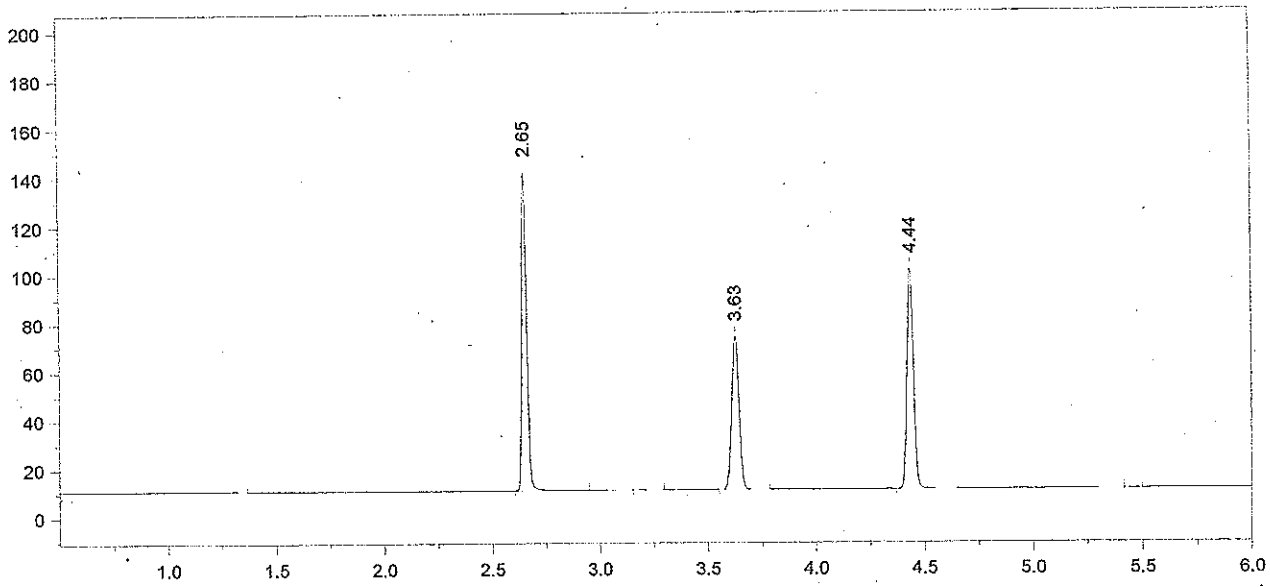


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:38 AM
Bound File Name = VFL06252015.0005.RAW
Sample Name = STD C
Date Taken = 6/25/2015 4:47:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82365	0.0786
5	3.63	t-Butanol	149273	0.9794
6	4.44	n-Propanol	200402	1.0000

15-09-100 9 AB

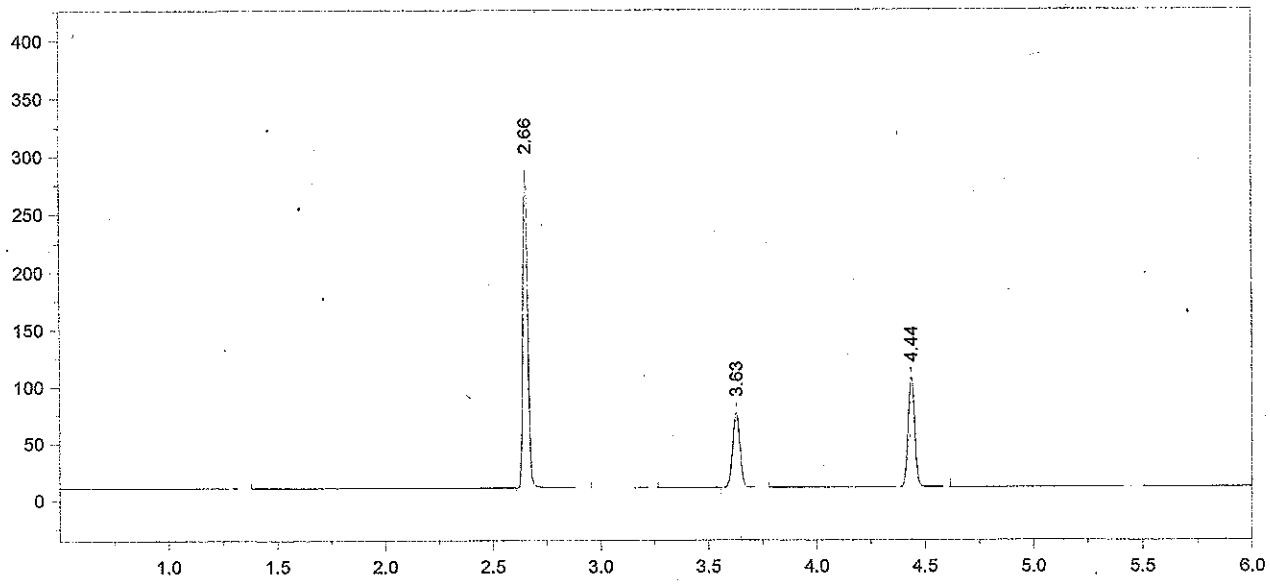


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:44 AM
Bound File Name = VFL06252015.0006.RAW
Sample Name = STD D
Date Taken = 6/25/2015 5:03:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	201059	0.2008
4	3.63	t-Butanol	146124	1.0038
5	4.44	n-Propanol	191401	1.0000

15-09-100 10 AB

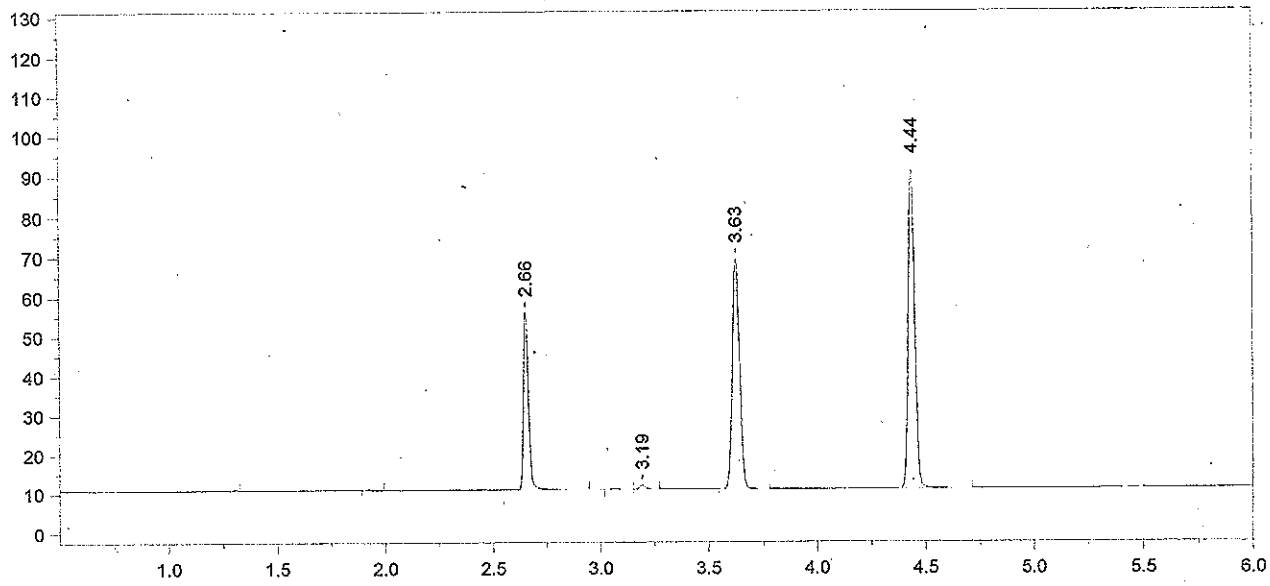


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 8:11:50 AM
Bound File Name = VFL06252015.0007.RAW
Sample Name = STD E
Date Taken = 6/25/2015 5:17:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	425632	0.3999
4	3.63	t-Butanol	151895	0.9817
5	4.44	n-Propanol	203444	1.0000

15-09-100 11 AB

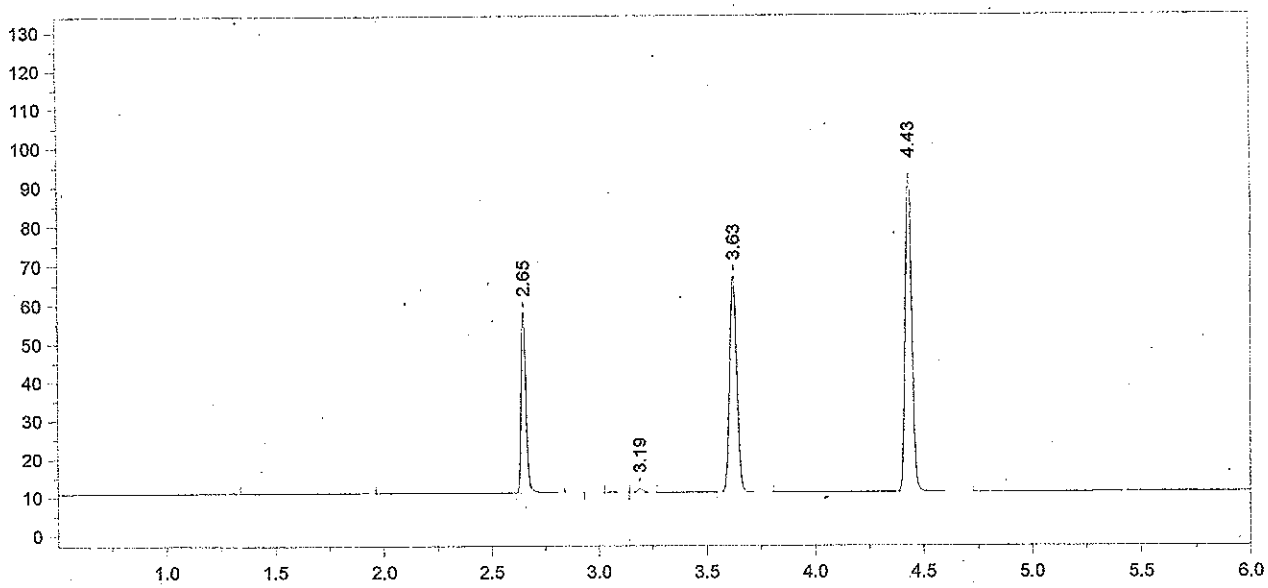


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 5:35:16 PM
Bound File Name = VFL06252015.0008.RAW
Sample Name = WB
Date Taken = 6/25/2015 5:35:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	71005	0.0791
5	3.19	Isopropanol	02129	<0.004
6	3.63	t-Butanol	134563	1.0312
7	4.44	n-Propanol	171586	1.0000

15-09-10D 12 AB



Format File Name = AlcoholVFL.FMT

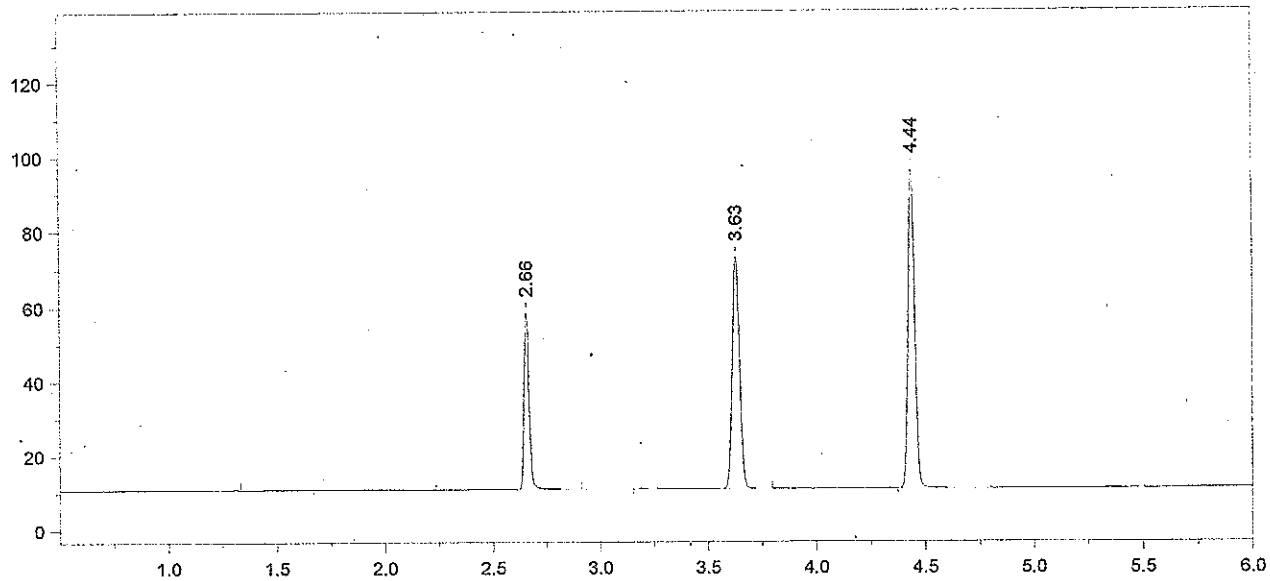
Today's Date = 6/25/2015
Today's Time = 5:50:13 PM
Bound File Name = VFL06252015.0009.RAW
Sample Name = WB
Date Taken = 6/25/2015 5:50:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	74187	0.0810
6	3.19	Isopropanol	02161	<0.004
7	3.63	t-Butanol	129749	0.9741
8	4.43	n-Propanol	175140	1.0000

Avg vals 8 & 9 = 0.0800
±5% range = 0.0760 - 0.0840
recovery = 100%
AB 6/26/15

Cliniqa Lot 1212090
TV = 0.080 AB 7/6/15

15-09-100 13 AB

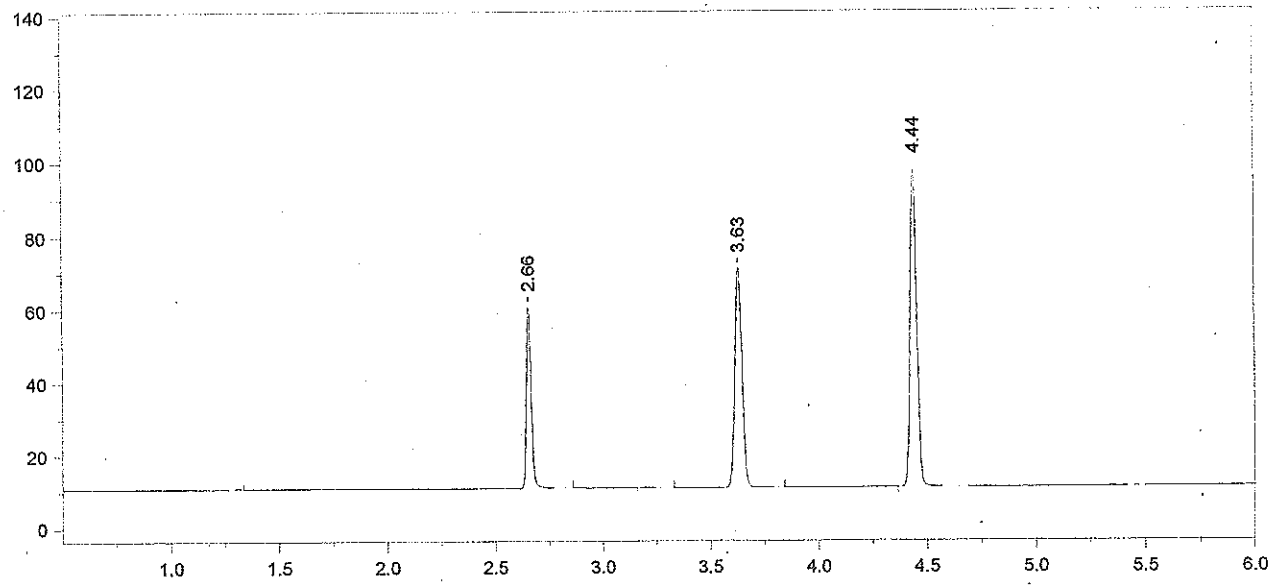


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 6:06:43 PM
Bound File Name = VFL06252015.0010.RAW
Sample Name = AQ
Date Taken = 6/25/2015 6:06:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	74139	0.0783
4	3.63	t-Butanol	144328	1.0490
5	4.44	n-Propanol	180900	1.0000

15-09-100 14 AB



Format File Name = AlcoholVFL.FMT

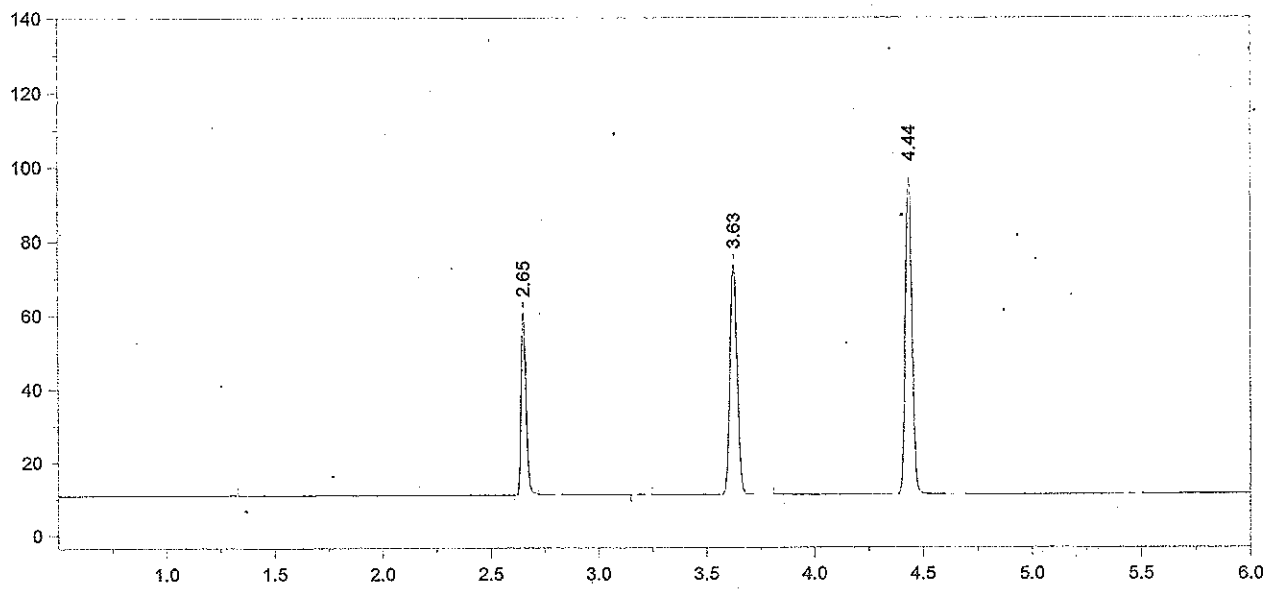
Today's Date = 6/25/2015
Today's Time = 6:19:58 PM
Bound File Name = VFL06252015.0011.RAW
Sample Name = AQ
Date Taken = 6/25/2015 6:19:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	77353	0.0800
5	3.63	t-Butanol	138885	0.9883
6	4.44	n-Propanol	184778	1.0000

Cerilliant lot # FN021111-03
TV = 0.080
Avg vials 10 + 11 = 0.0791
±5% range = 0.0751 - 0.0830
recovery = 98.7%

AB 6/26/15

15-09-100 15 AB

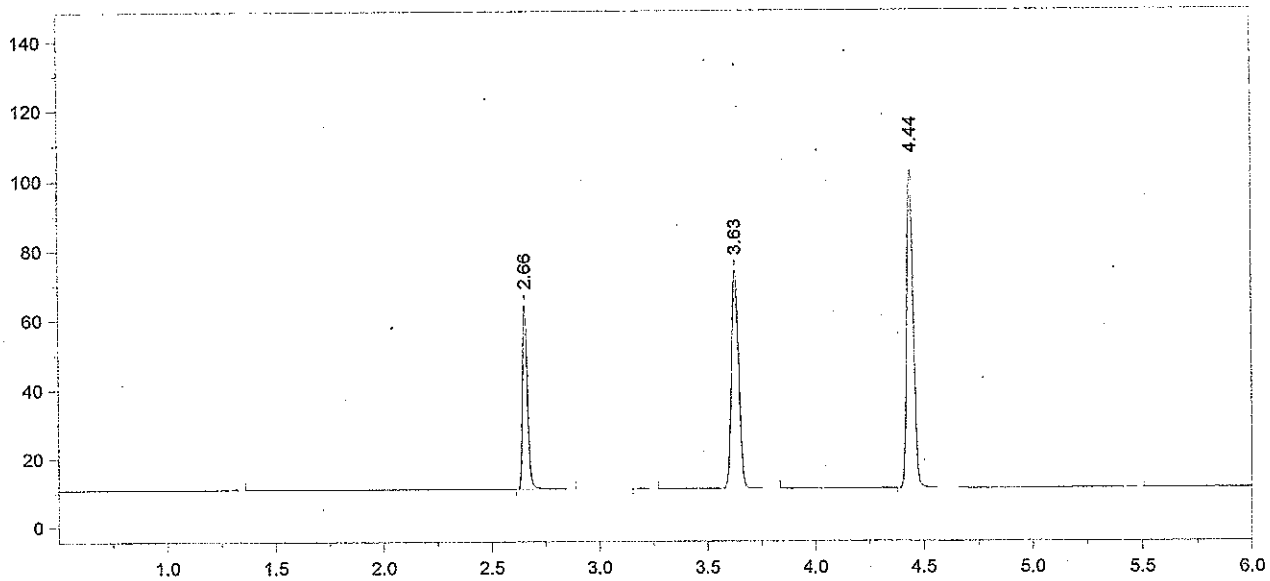


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 6:38:09 PM
Bound File Name = VFL06252015.0012.RAW
Sample Name = CCS
Date Taken = 6/25/2015 6:38:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	76900	0.0800
4	3.63	t-Butanol	145157	1.0389
5	4.44	n-Propanol	183722	1.0000

15-09-100 LB



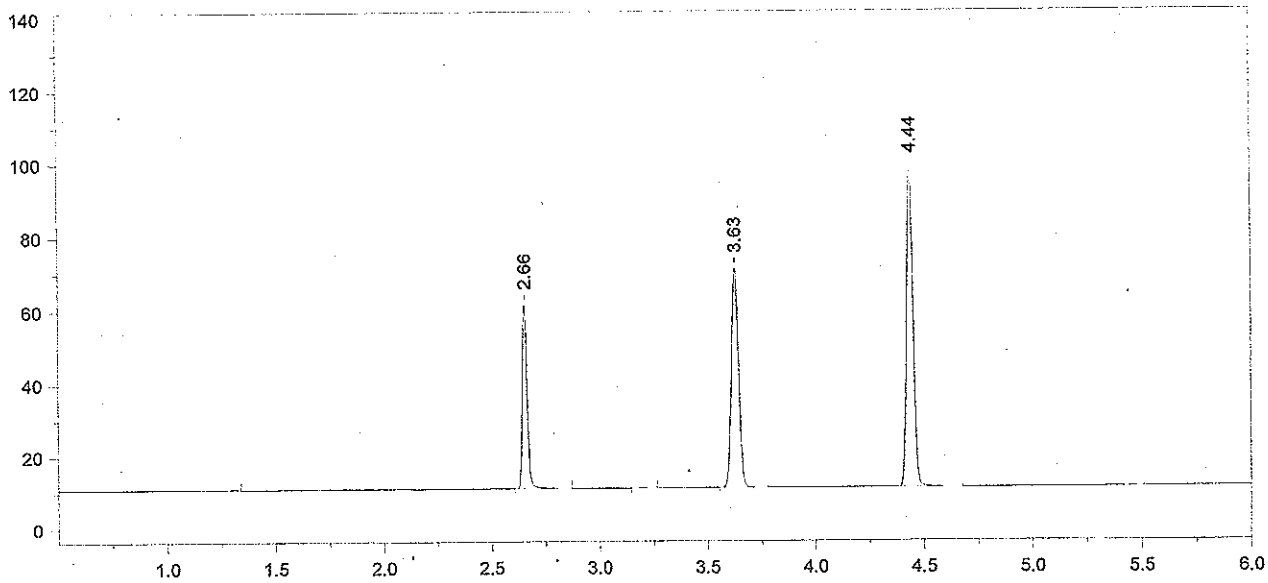
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 6:51:24 PM
Bound File Name = VFL06252015.0013.RAW
Sample Name = CCS
Date Taken = 6/25/2015 6:51:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82684	0.0813
4	3.63	t-Butanol	146083	0.9880
5	4.44	n-Propanol	194420	1.0000

Avg vals 12 + 13 = 0.0806
±5% range = 0.0766 - 0.0846
recovery = 100% 6/26/15 AB

15-09-100 17 AB

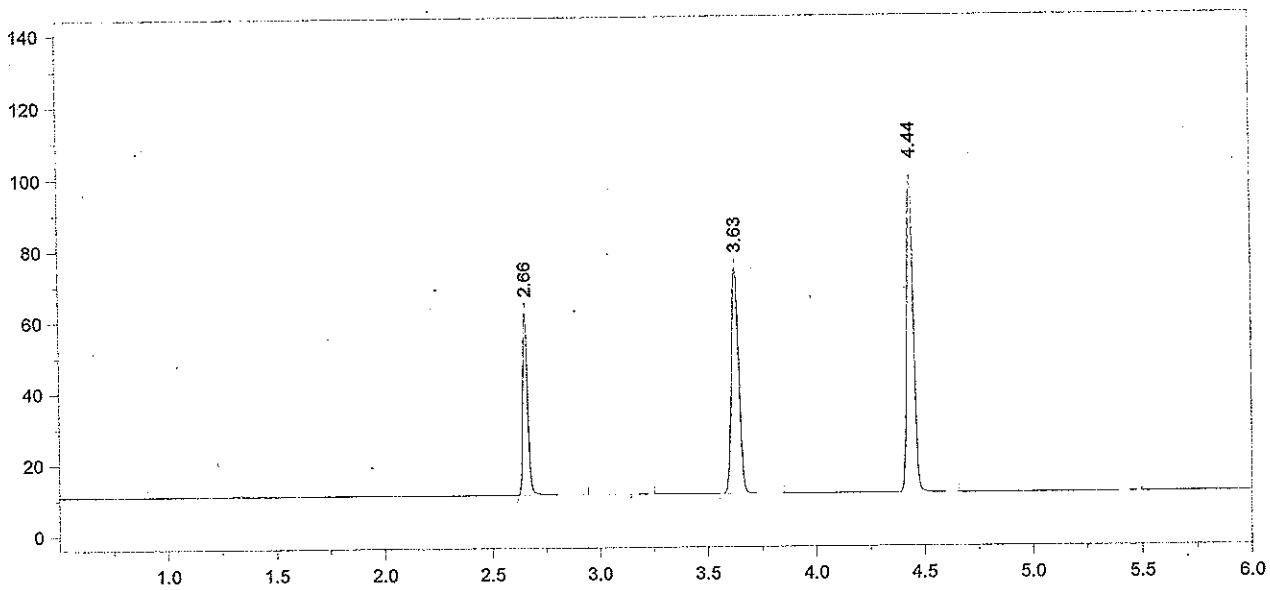


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 9:28:04 PM
Bound File Name = VFL06252015.0023.RAW
Sample Name = CCS
Date Taken = 6/25/2015 9:27:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	78732	0.0814
4	3.63	t-Butanol	138679	0.9868
5	4.44	n-Propanol	184781	1.0000

15-09-100 18 AB



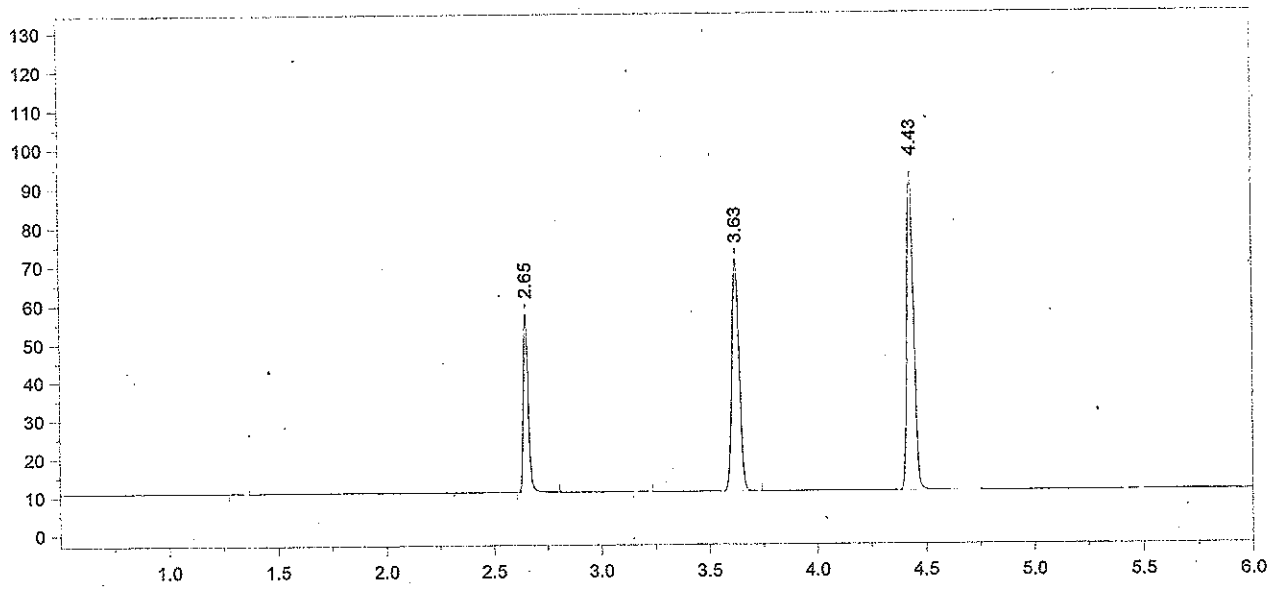
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 9:43:55 PM
Bound File Name = VFL06252015.0024.RAW
Sample Name = CCS
Date Taken = 6/25/2015 9:43:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	79716	0.0810
4	3.63	t-Butanol	146577	1.0239
5	4.44	n-Propanol	188230	1.0000

Avg vals 23 + 24 = 0.0812
± 5% range = 0.0771 - 0.0852
recovery = 101.2%
6/26/15 AB

15-09-100 19 AB

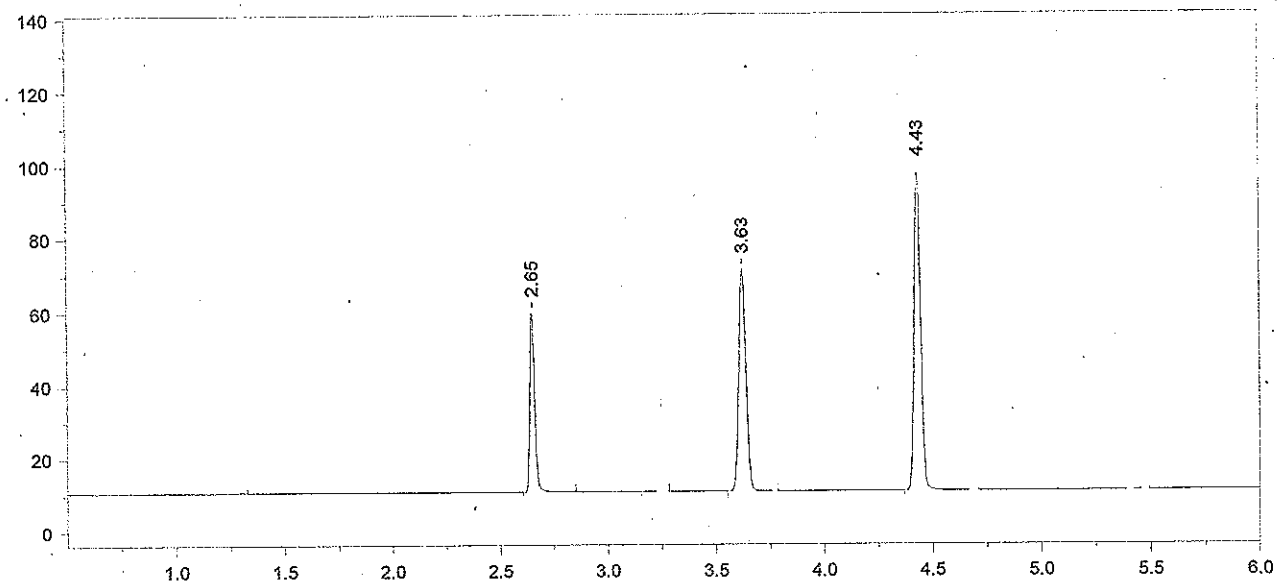


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2015
Today's Time = 11:48:42 PM
Bound File Name = VFL06252015.0032.RAW
Sample Name = CCS
Date Taken = 6/25/2015 11:48:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	72263	0.0789
4	3.63	t-Butanol	138580	1.0406
5	4.43	n-Propanol	175098	1.0000

15-09-100 20 AB



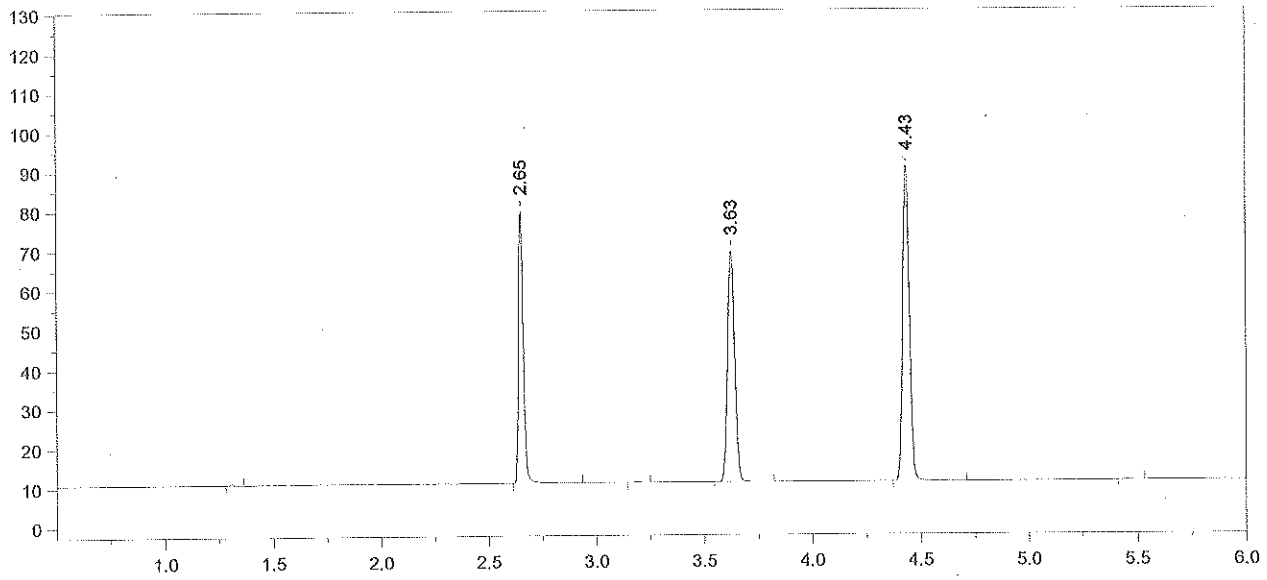
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 12:02:39 AM
Bound File Name = VFL06252015.0033.RAW
Sample Name = CCS
Date Taken = 6/26/2015 12:02:35 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	76516	0.0794
4	3.63	t-Butanol	139879	0.9982
5	4.43	n-Propanol	184263	1.0000

Avg vals 32 . 33 = 0.0791
±5% range = 0.0751 - 0.0830
recovery = 98.7%
6/26/15 AB

15-09-100 21 AB

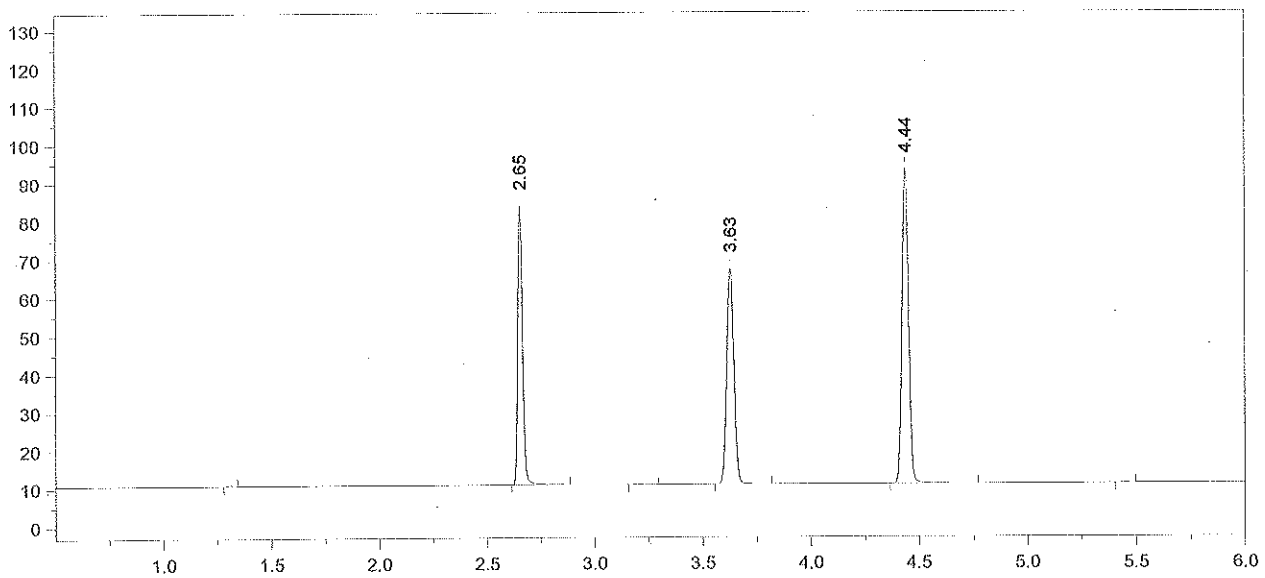


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 12:20:09 AM
Bound File Name = VFL06252015.0034.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 12:20:04 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	107254	0.1204	0.0983
4	3.63	t-Butanol	135264	1.0445	0.8525
5	4.43	n-Propanol	170274	1.0000	0.8162

15-09-100 22

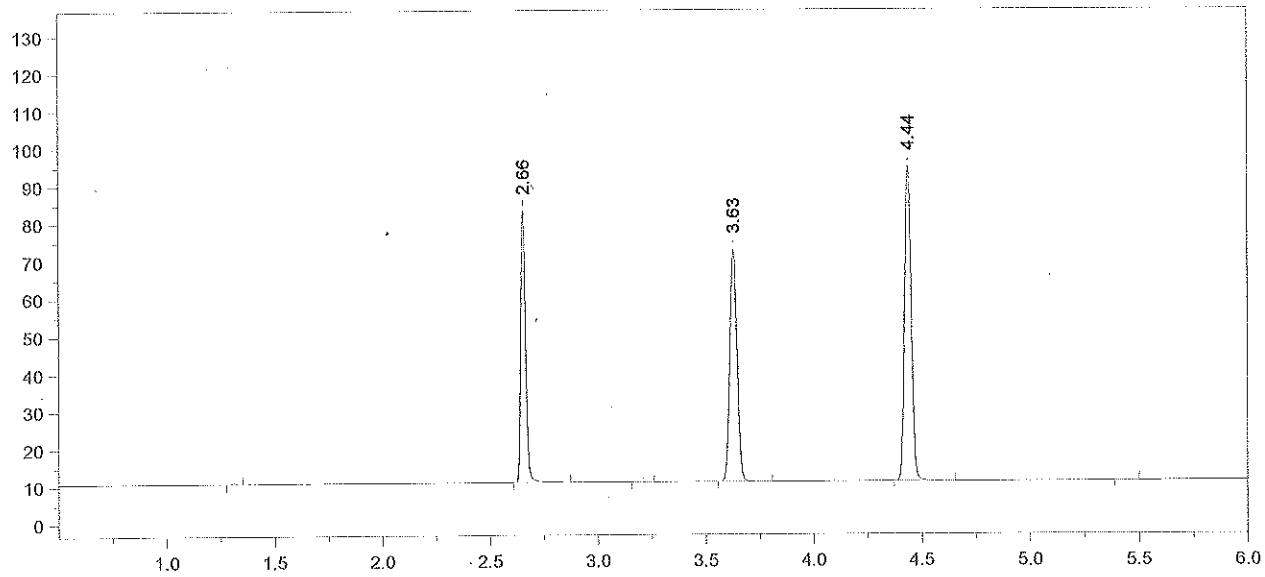


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 12:34:14 AM
Bound File Name = VFL06252015.0035.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 12:34:07 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	113805	0.1238	0.1010
4	3.63	t-Butanol	130728	0.9781	0.7983
5	4.44	n-Propanol	175736	1.0000	0.8162

15-09-100 23 AB

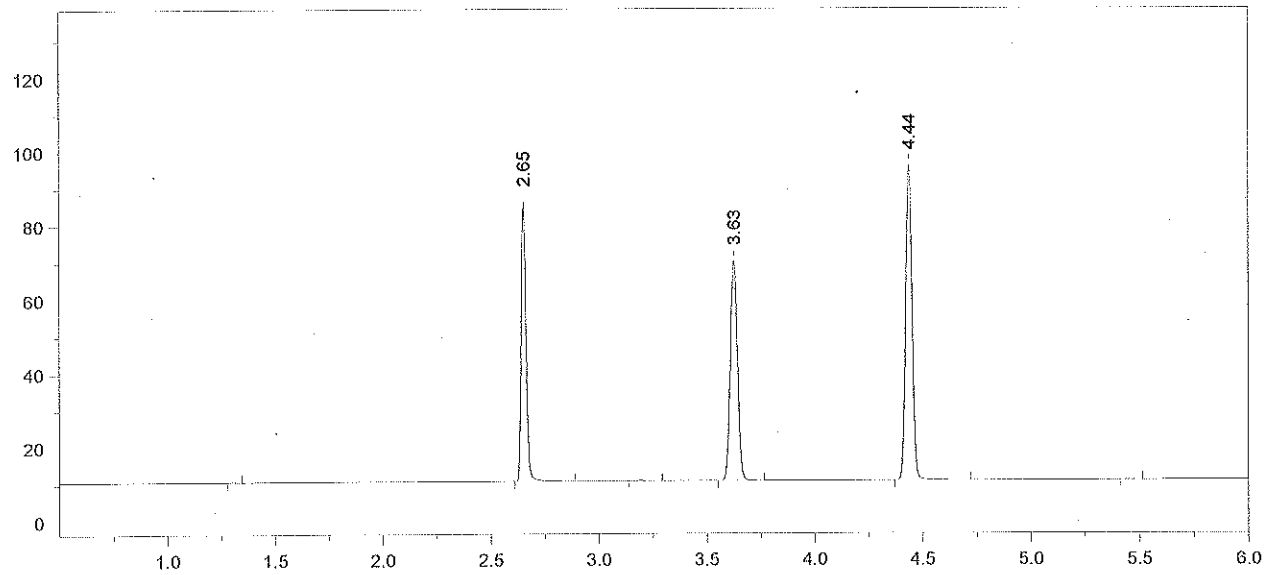


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 12:51:37 AM
Bound File Name = VFL06252015.0036.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 12:51:31 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	112211	0.1200	0.0980
4	3.63	t-Butanol	143071	1.0527	0.8593
5	4.44	n-Propanol	178695	1.0000	0.8162

15-09-100 24 AB

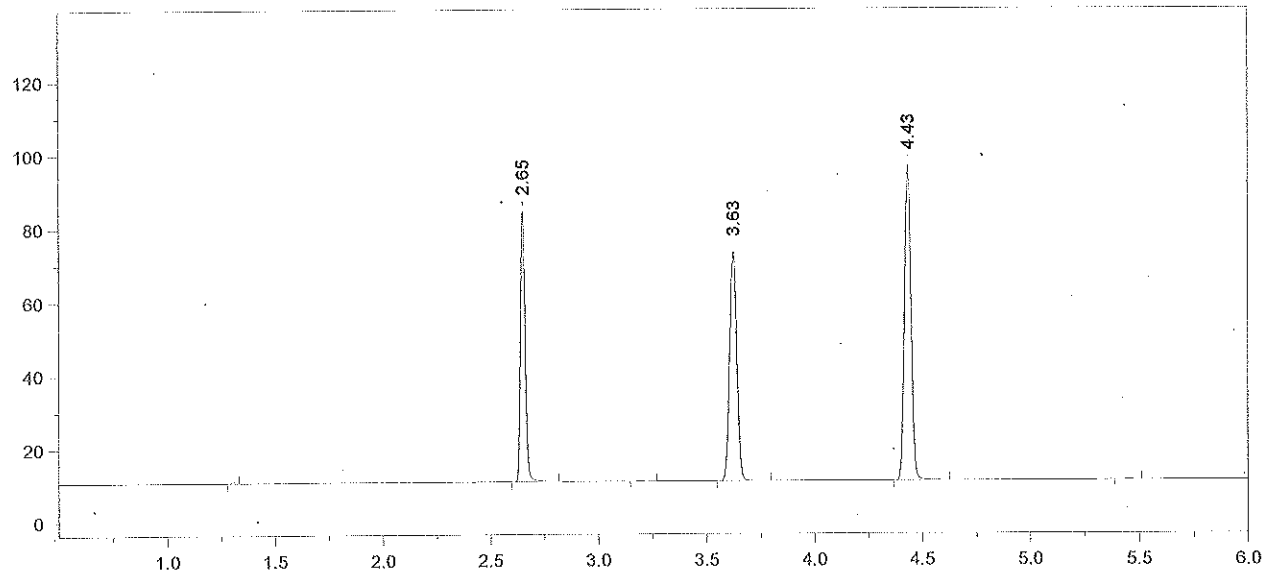


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:05:36 AM
Bound File Name = VFL06252015.0037.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 1:05:28 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	116843	0.1232	0.1005
4	3.63	t-Butanol	137874	0.9999	0.8161
5	4.44	n-Propanol	181311	1.0000	0.8162

15-09-100 7.5 AB

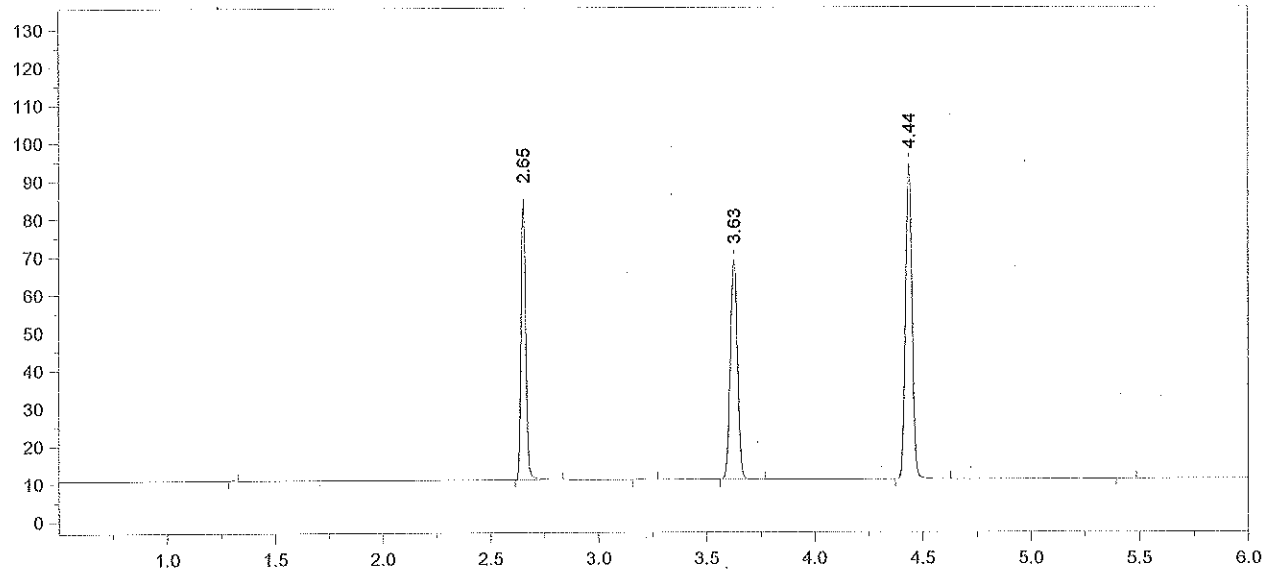


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:23:05 AM
Bound File Name = VFL06252015.0038.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 1:22:57 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	113694	0.1197	0.0977
4	3.63	t-Butanol	145316	1.0527	0.8592
5	4.43	n-Propanol	181508	1.0000	0.8162

15-109-100 26 AB

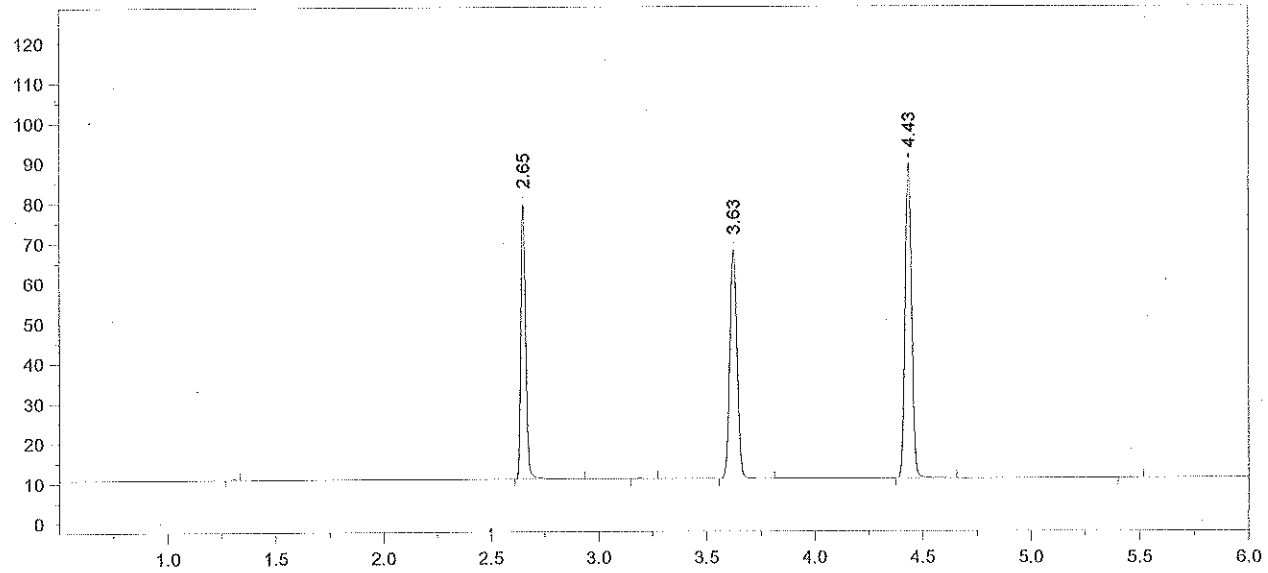


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:36:56 AM
Bound File Name = VFL06252015.0039.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 1:36:50 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	114423	0.1238	0.1011
4	3.63	t-Butanol	134241	0.9994	0.8157
5	4.44	n-Propanol	176619	1.0000	0.8162

15-09-100 27 AB

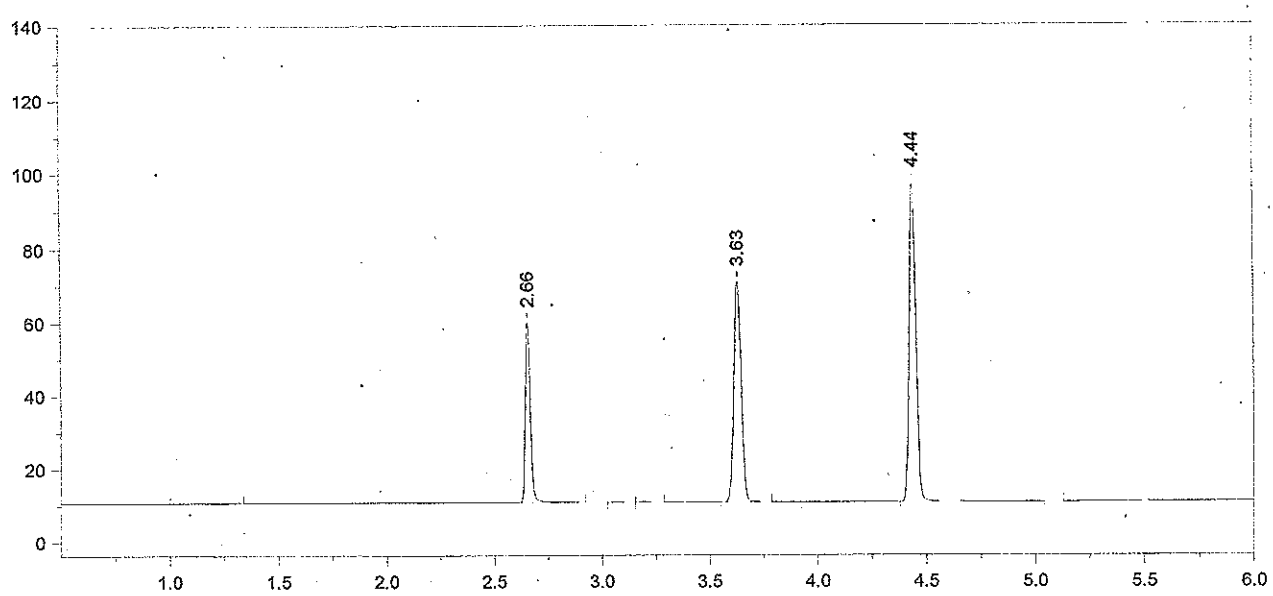


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:54:31 AM
Bound File Name = VFL06252015.0040.RAW
Sample Name = .10 DP
Date Taken = 6/26/2015 1:54:24 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	106474	0.1217	0.0993
4	3.63	t-Butanol	132640	1.0430	0.8513
5	4.43	n-Propanol	167219	1.0000	0.8162

15-09-100 28 AB

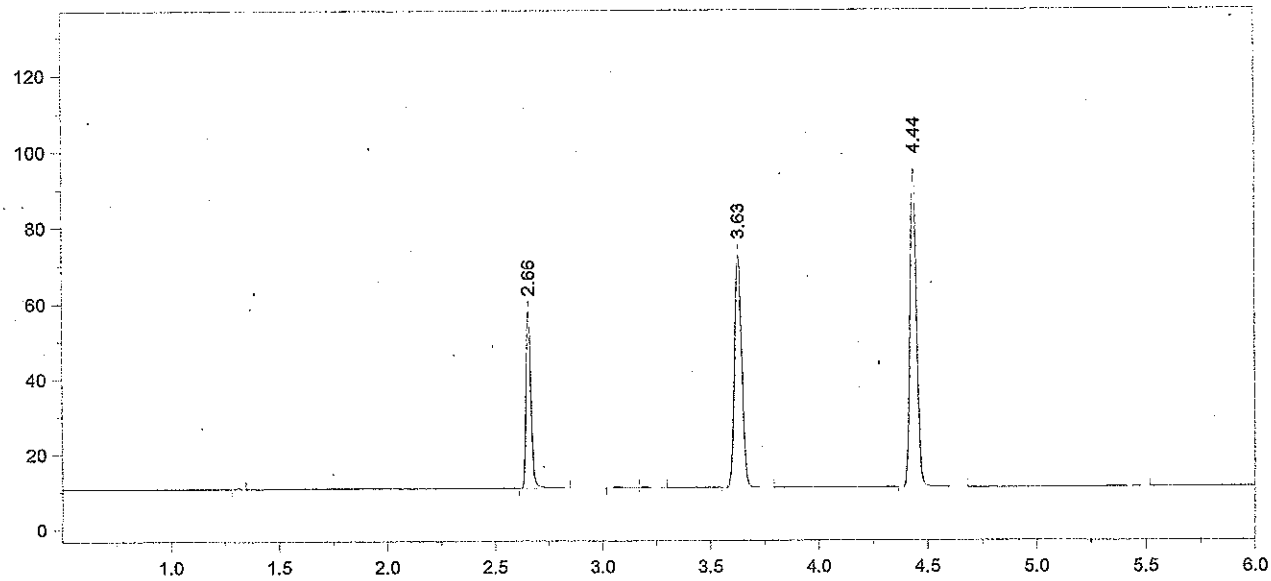


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 2:08:25 AM
Bound File Name = VFL06252015.0041.RAW
Sample Name = CCS
Date Taken = 6/26/2015 2:08:20 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76688	0.0800
5	3.63	t-Butanol	138805	0.9956
6	4.44	n-Propanol	183319	1.0000

15-09-100 29 AB



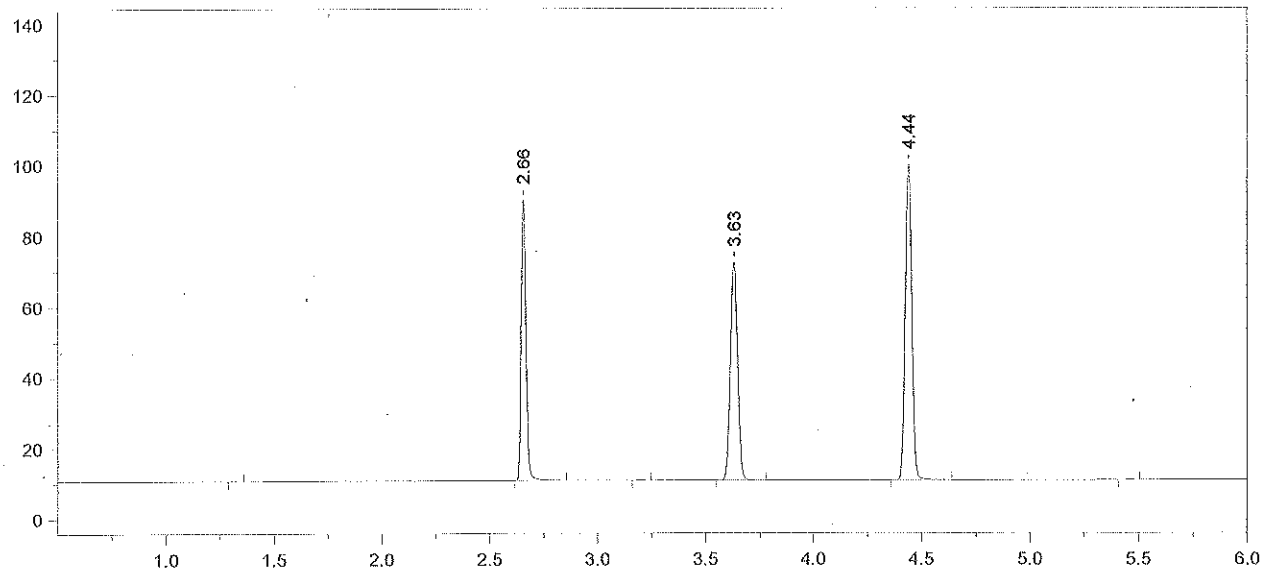
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 2:26:00 AM
Bound File Name = VFL06252015.0042.RAW
Sample Name = CCS
Date Taken = 6/26/2015 2:25:53 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	73570	0.0784
5	3.63	t-Butanol	142269	1.0429
6	4.44	n-Propanol	179367	1.0000

Avg vals 41 + 42 = 0.0792
± 5% range = 0.0752 - 0.0831
recovery = 98.7%
6/26/15 AB

15-09-100 37 AB

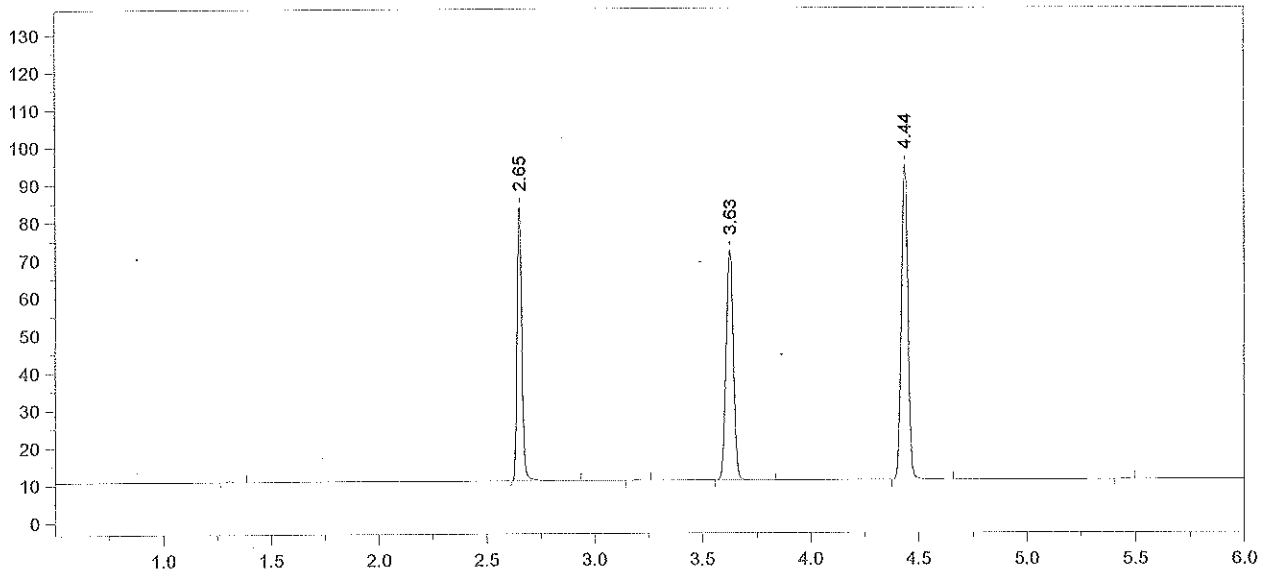


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 2:40:53 AM
Bound File Name = VFL06252015.0043.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 2:40:47 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	122249	0.1239	0.1011
4	3.63	t-Butanol	143292	0.9988	0.8152
5	4.44	n-Propanol	188638	1.0000	0.8162

15-09-100 31 AB

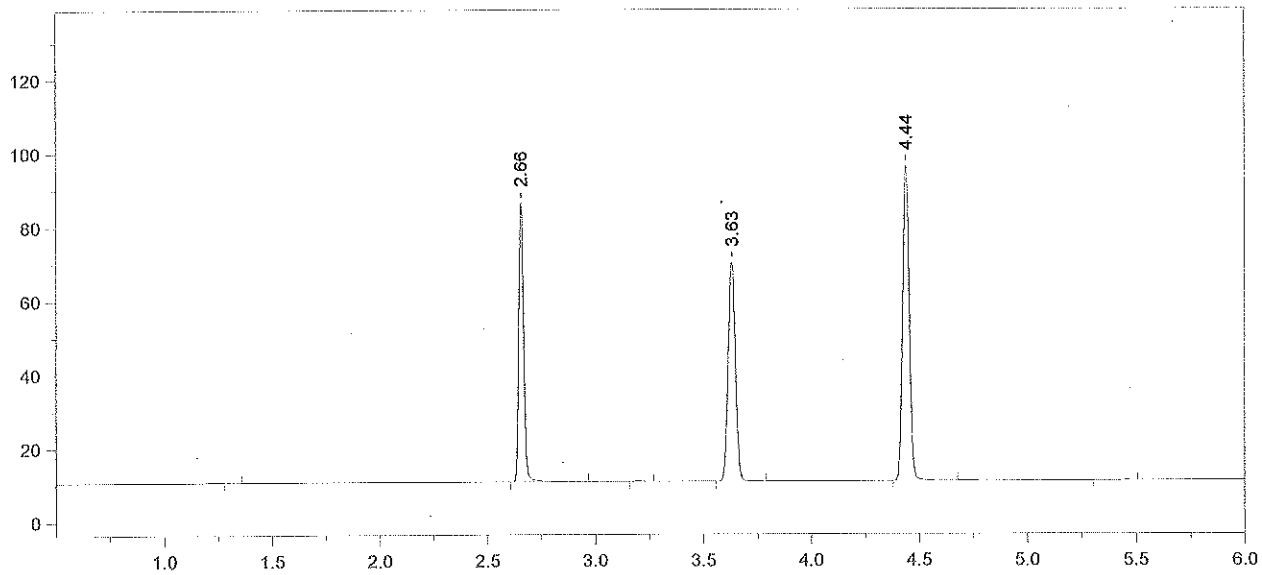


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 2:57:32 AM
Bound File Name = VFL06252015.0044.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 2:57:23 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	113104	0.1216	0.0993
4	3.63	t-Butanol	142255	1.0522	0.8588
5	4.44	n-Propanol	177761	1.0000	0.8162

15-09-100 32 AB

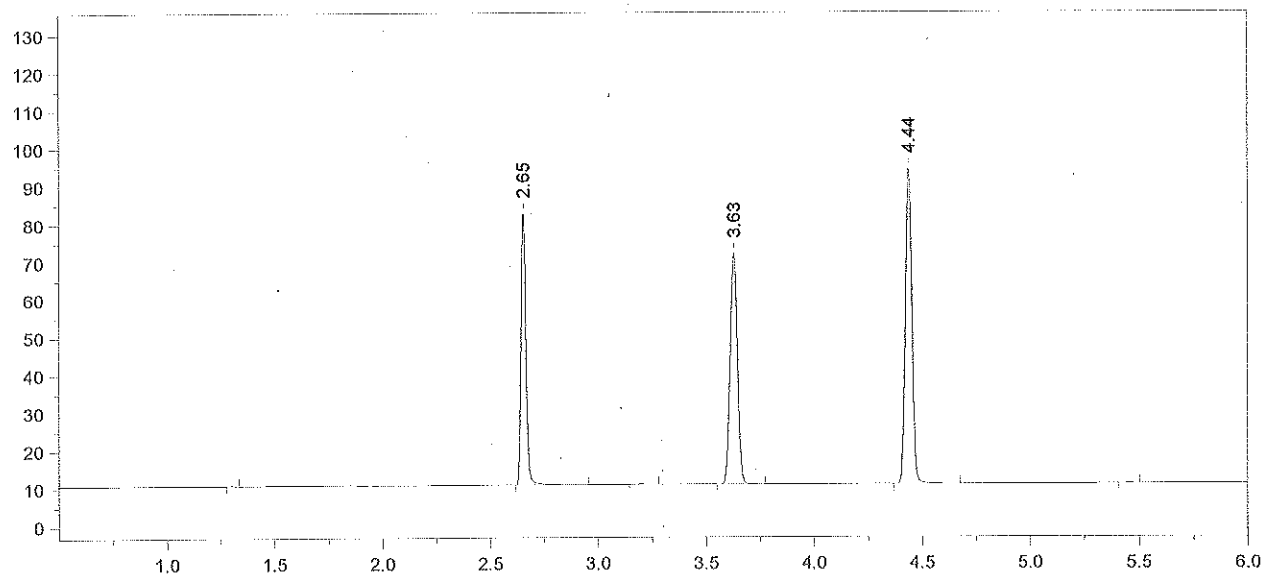


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 3:11:17 AM
Bound File Name = VFL06252015.0045.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 3:11:11 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	117238	0.1236	0.1009
4	3.63	t-Butanol	137913	1.0005	0.8166
5	4.44	n-Propanol	181253	1.0000	0.8162

15-09-100 33 AB

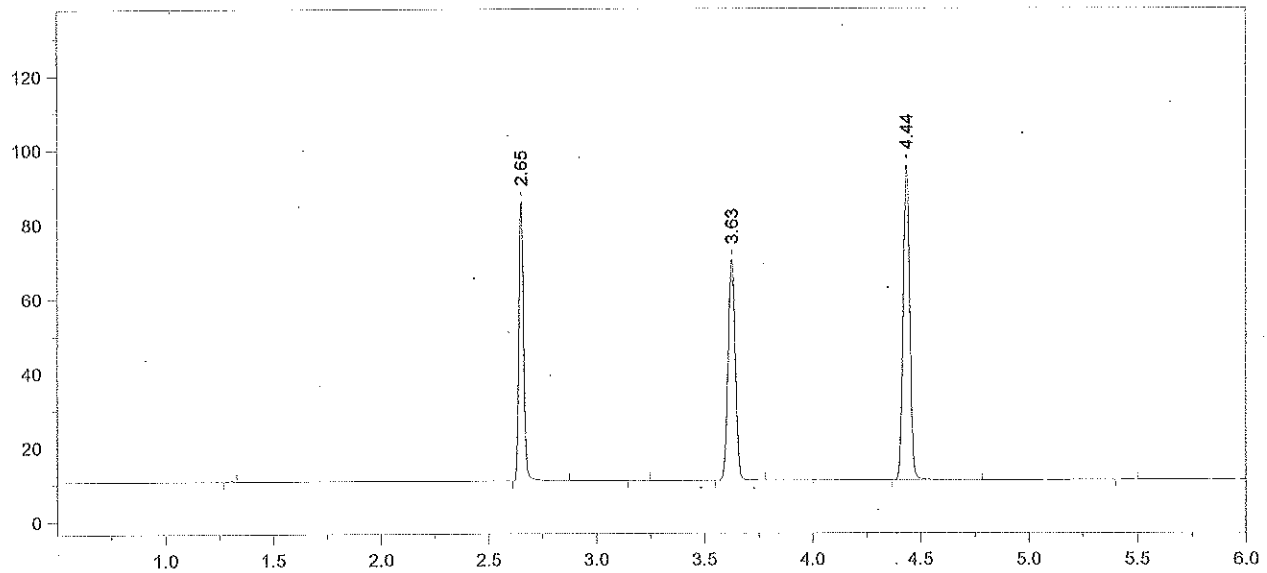


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 3:28:56 AM
Bound File Name = VFL06252015.0046.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 3:28:53 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	112397	0.1211	0.0988
4	3.63	t-Butanol	141880	1.0515	0.8582
5	4.44	n-Propanol	177415	1.0000	0.8162

15-09-100 34 AB

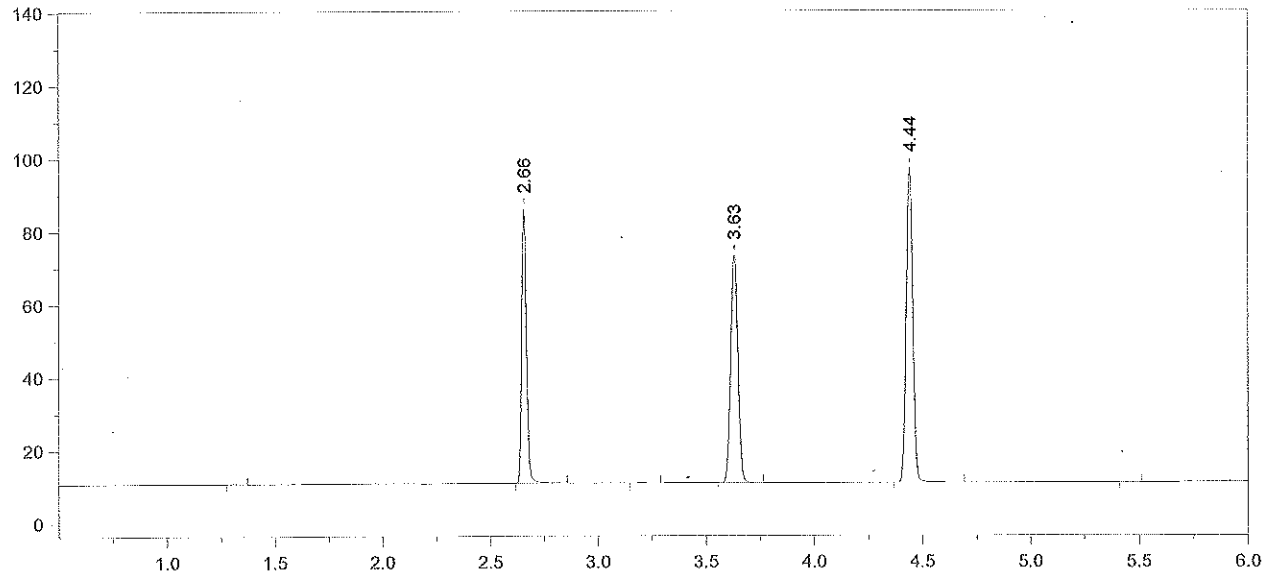


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 3:42:40 AM
Bound File Name = VFL06252015.0047.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 3:42:36 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	116896	0.1236	0.1009
4	3.63	t-Butanol	137524	1.0004	0.8165
5	4.44	n-Propanol	180756	1.0000	0.8162

15-19-100 35 AB



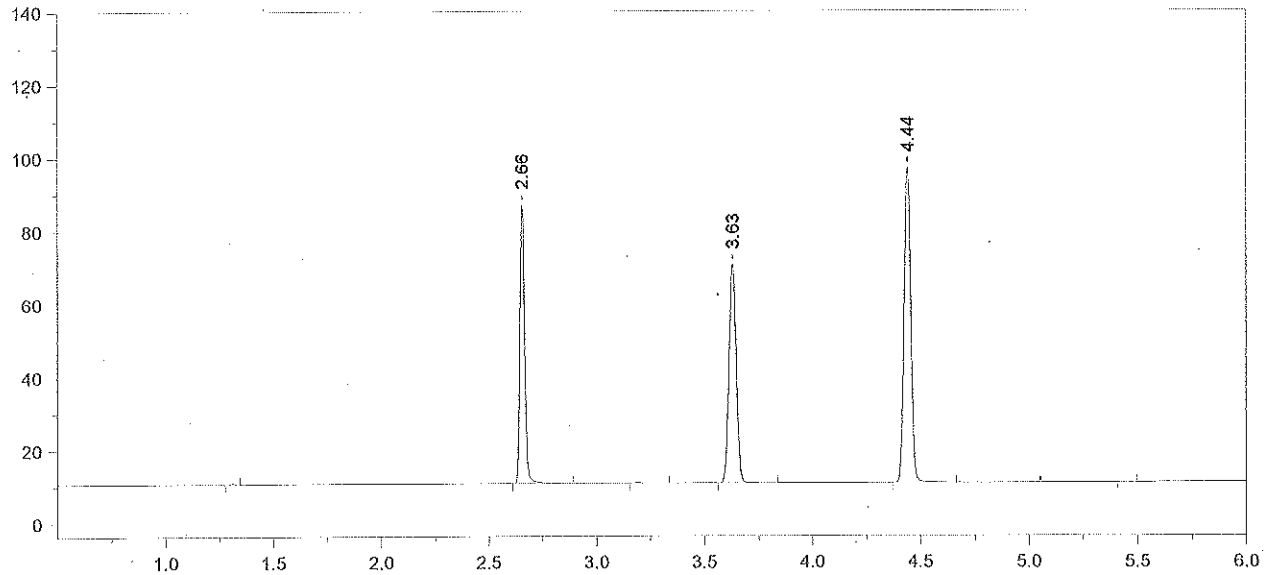
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 3:58:52 AM
Bound File Name = VFL06252015.0048.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 3:58:41 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115901	0.1211	0.0988
4	3.63	t-Butanol	145191	1.0433	0.8516
5	4.44	n-Propanol	182975	1.0000	0.8162

15-09-100 3/6 AB

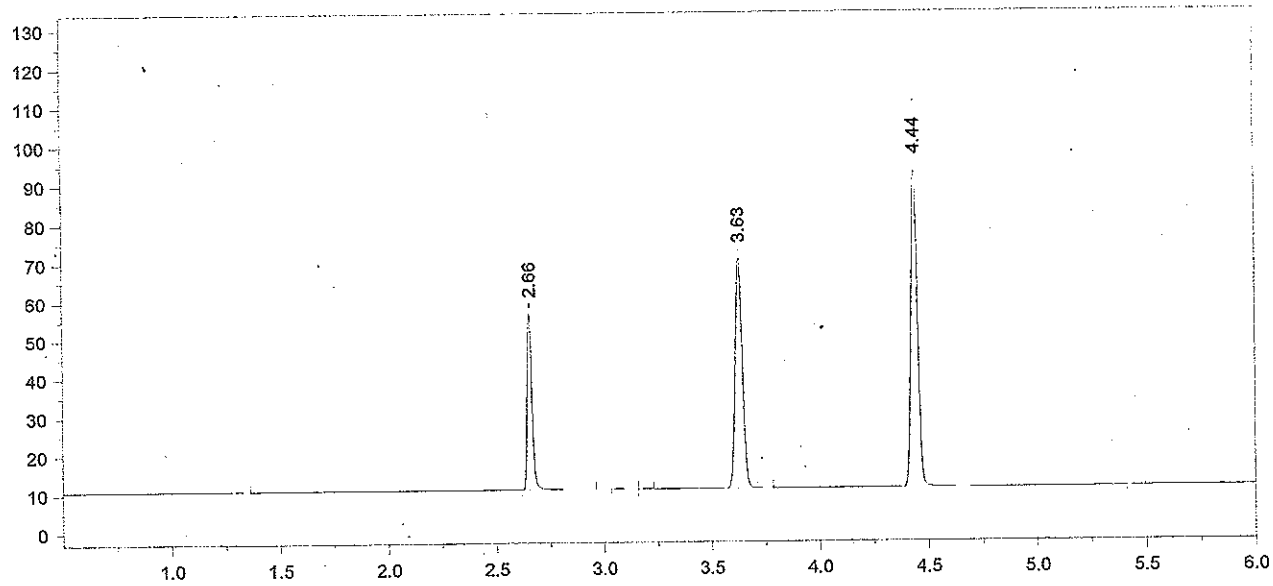
Chrom Perfect Chromatogram Report



Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 4:13:39 AM
Bound File Name = VFL06252015.0049.RAW
Sample Name = .10 ALB
Date Taken = 6/26/2015 4:13:32 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252015.CAL
Calibration Version = 7

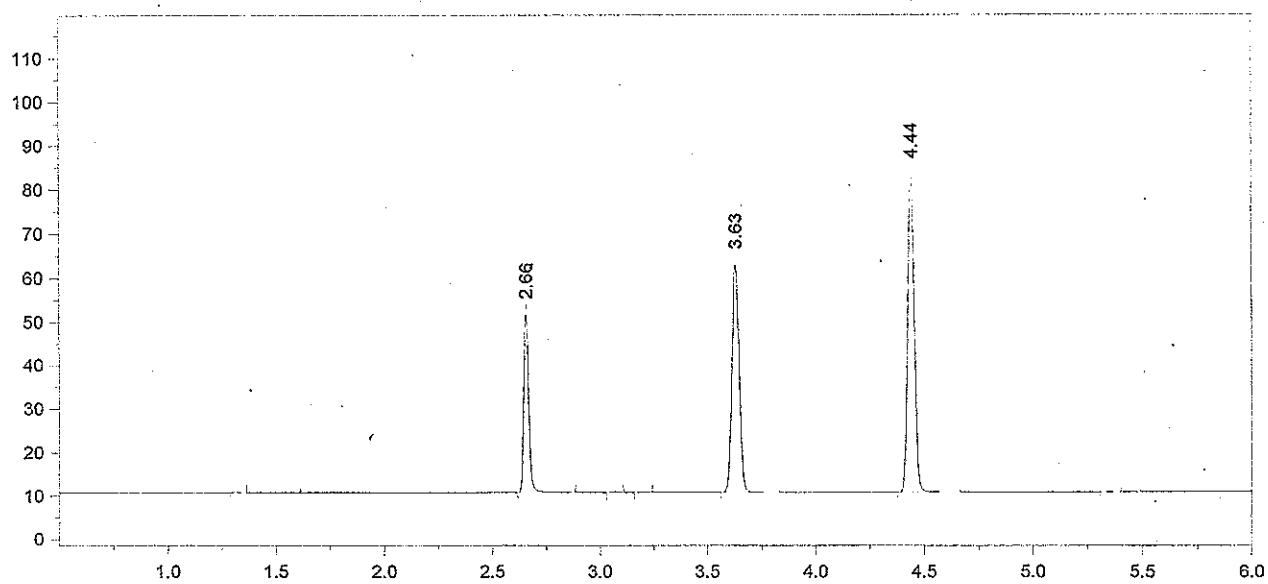
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	117742	0.1227	0.1002
5	3.63	t-Butanol	138906	0.9958	0.8128
6	4.44	n-Propanol	183409	1.0000	0.8162



Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 4:30:15 AM
Bound File Name = VFL06252015.0050.RAW
Sample Name = CCS
Date Taken = 6/26/2015 4:30:08 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	71541	0.0785
5	3.63	t-Butanol	138157	1.0424
6	4.44	n-Propanol	174265	1.0000



Format File Name = AlcoholVFL.FMT

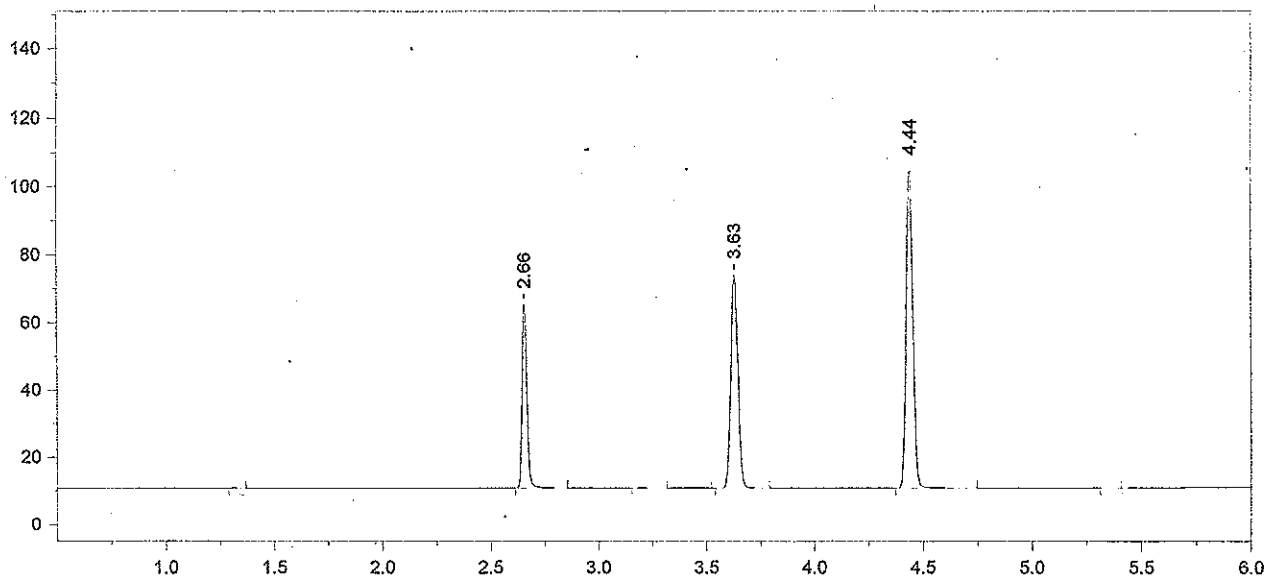
Today's Date = 6/26/2015
Today's Time = 4:44:07 AM
Bound File Name = VFL06252015.0051.RAW
Sample Name = CCS
Date Taken = 6/26/2015 4:43:59 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	63827	0.0788
5	3.63	t-Butanol	121114	1.0285
6	4.44	n-Propanol	154833	1.0000

Avg vals 50 + 51 = 0.0786
± 5% = 0.0747 - 0.0825
recovery = 97.5%

6/26/15 AB

15-09-100 39 AB

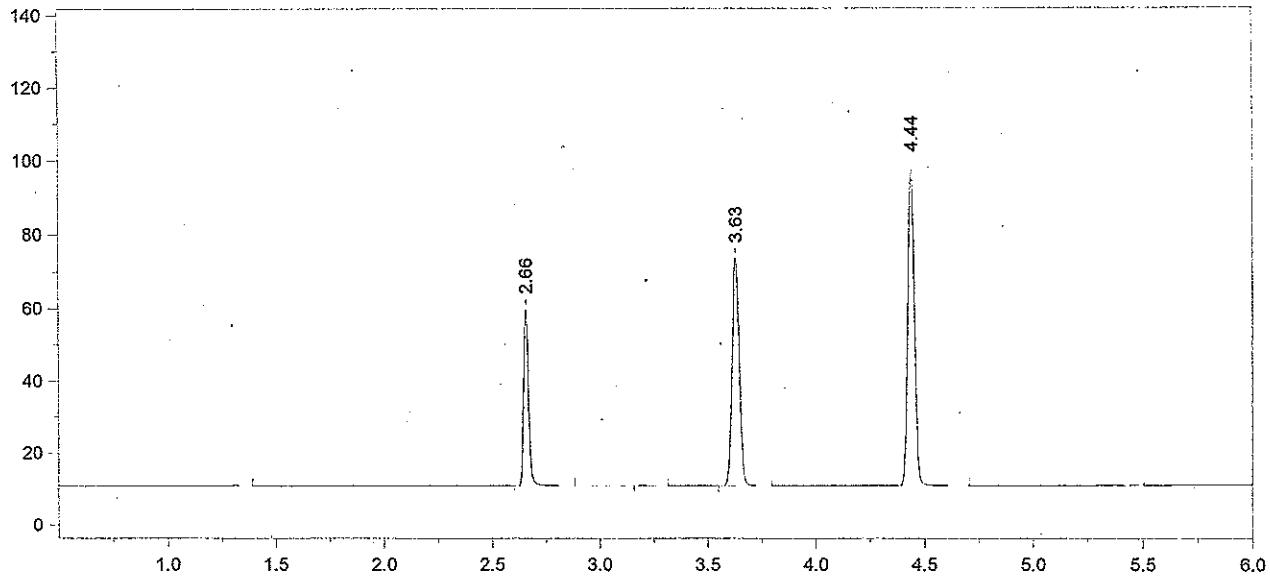


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 9:06:29 AM
Bound File Name = VFL06252015.0052.RAW
Sample Name = CCS 06262015
Date Taken = 6/26/2015 9:06:24 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	84225	0.0806
4	3.63	t-Butanol	145361	0.9565
5	4.44	n-Propanol	199832	1.0000

15-09-100 40 AB



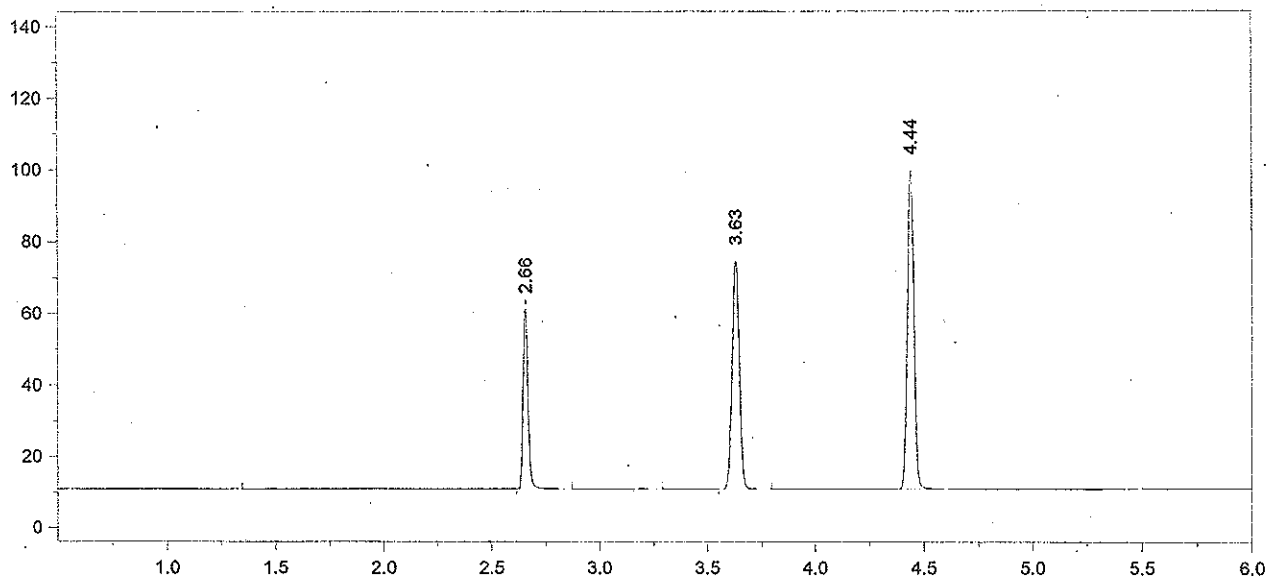
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 9:23:41 AM
Bound File Name = VFL06252015.0053.RAW
Sample Name = CCS
Date Taken = 6/26/2015 9:23:33 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	75800	0.0783
4	3.63	t-Butanol	145253	1.0326
5	4.44	n-Propanol	184962	1.0000

Avg vals 52 + 53 = 0.0794
±5% range 0.0754 - 0.0834
recovery = 98.7%

15-09-100 41 AB

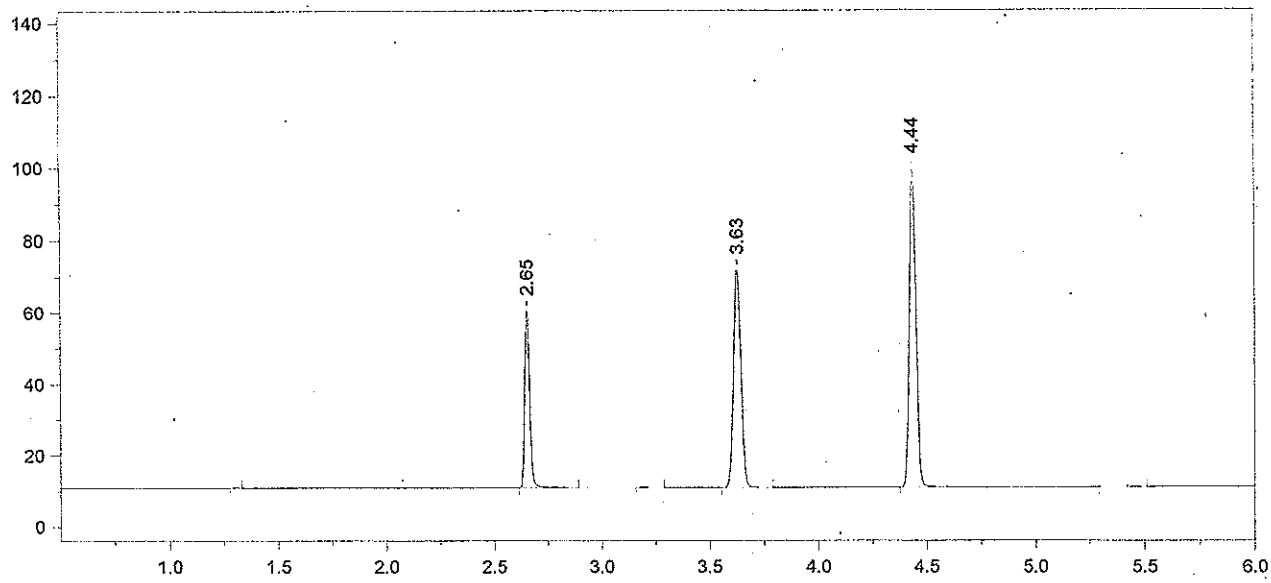


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 11:29:18 AM
Bound File Name = VFL06252015.0061.RAW
Sample Name = CCS
Date Taken = 6/26/2015 11:29:10 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	78052	0.0794
4	3.63	t-Butanol	148115	1.0360
5	4.44	n-Propanol	187984	1.0000

15-09-100 42 AB



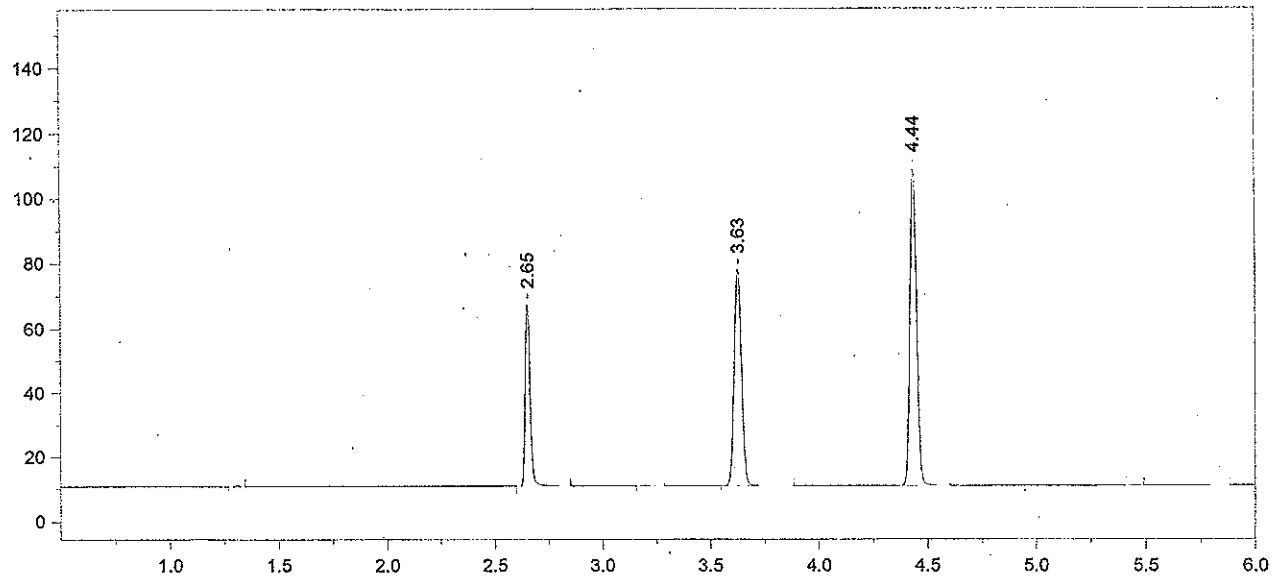
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 11:43:23 AM
Bound File Name = VFL06252015.0062.RAW
Sample Name = CCS
Date Taken = 6/26/2015 11:43:15 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	78136	0.0797
4	3.63	t-Butanol	140619	0.9872
5	4.44	n-Propanol	187284	1.0000

Avg vials 61 + 62 = 0.0795
±5% range = 0.0755 - 0.0835
recovery = 98.7%
6/26/15 AB

15-09-100 43 AB

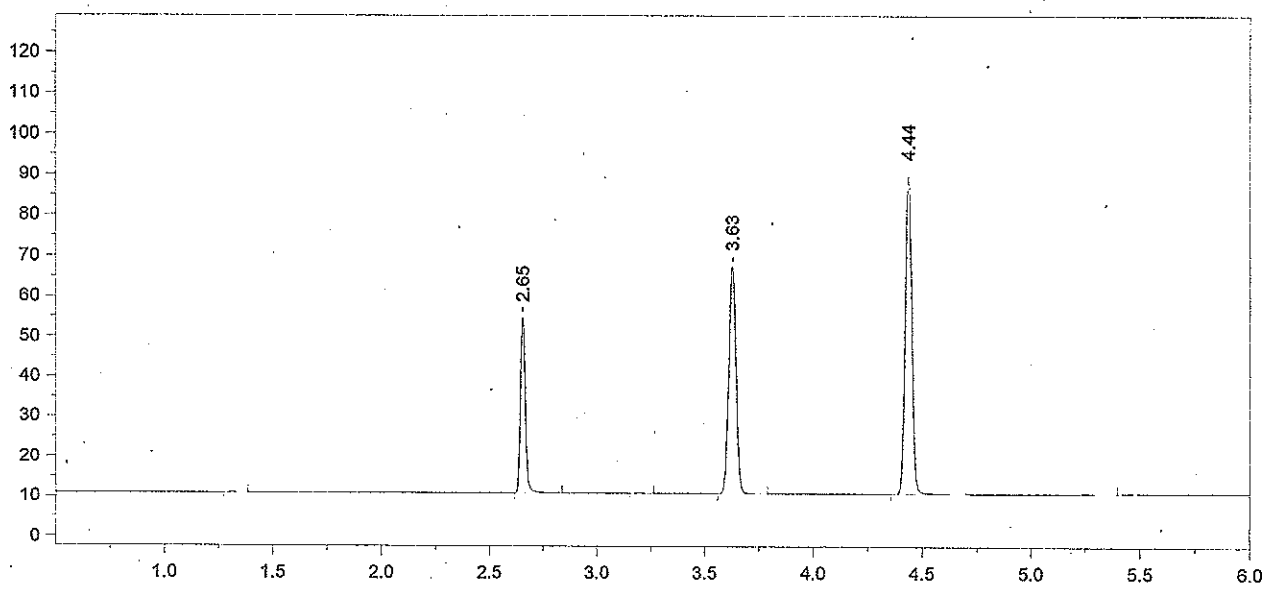


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 1:49:45 PM
Bound File Name = VFL06252015.0070.RAW
Sample Name = CCS
Date Taken = 6/26/2015 1:49:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87639	0.0804
4	3.63	t-Butanol	155346	0.9808
5	4.44	n-Propanol	208256	1.0000

15-09-100 44 AB



Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2015
Today's Time = 2:06:16 PM
Bound File Name = VFL06252015.0071.RAW
Sample Name = CCS
Date Taken = 6/26/2015 2:06:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	68525	0.0784
4	3.63	t-Butanol	130692	1.0289
5	4.44	n-Propanol	167024	1.0000

Avg Vals 70 + 71 = 0.0794
±5% range = 0.0754 – 0.0834
Recovery = 98.7% 6/26/15 [illegible]

15-09-100 45 [illegible]

File Name = C:\Alcohol Data\VFL07082015\VFL07082015.SEQ
Version = 4
File Date = 7/9/2015 10:25:16 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL07082015.0001.raw	Blood Alc temp VFL.MET	BLANK	1.00	1.00
2	VFL07082015.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL07082015.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL07082015.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL07082015.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL07082015.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL07082015.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL07082015.0008.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
9	VFL07082015.0009.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
10	VFL07082015.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL07082015.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL07082015.0012.raw	simsoln.met	.10 ALB	1.00	1.00
13	VFL07082015.0013.raw	simsoln.met	.10 ALB	1.00	1.00
14	VFL07082015.0014.raw	simsoln.met	.10 ALB	1.00	1.00
15	VFL07082015.0015.raw	simsoln.met	.10 ALB	1.00	1.00
16	VFL07082015.0016.raw	simsoln.met	.10 ALB	1.00	1.00
17	VFL07082015.0017.raw	simsoln.met	.10 ALB	1.00	1.00
18	VFL07082015.0018.raw	simsoln.met	.10 ALB	1.00	1.00
19	VFL07082015.0019.raw	simsoln.met	.10 DJP	1.00	1.00
20	VFL07082015.0020.raw	simsoln.met	.10 DJP	1.00	1.00
21	VFL07082015.0021.raw	simsoln.met	.10 DJP	1.00	1.00
22	VFL07082015.0022.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
23	VFL07082015.0023.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
24	VFL07082015.0024.raw	simsoln.met	.10 DJP	1.00	1.00
25	VFL07082015.0025.raw	simsoln.met	.10 DJP	1.00	1.00
26	VFL07082015.0026.raw	simsoln.met	.10 DJP	1.00	1.00
27	VFL07082015.0027.raw	simsoln.met	.10 DJP	1.00	1.00
28	VFL07082015.0028.raw	simsoln.met	.02 ALB	1.00	1.00
29	VFL07082015.0029.raw	simsoln.met	.02 ALB	1.00	1.00
30	VFL07082015.0030.raw	simsoln.met	.02 ALB	1.00	1.00
31	VFL07082015.0031.raw	simsoln.met	.02 ALB	1.00	1.00
32	VFL07082015.0032.raw	simsoln.met	.02 ALB	1.00	1.00
33	VFL07082015.0033.raw	simsoln.met	.02 ALB	1.00	1.00
34	VFL07082015.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL07082015.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
36	VFL07082015.0036.raw	simsoln.met	.02 ALB	1.00	1.00
37	VFL07082015.0037.raw	simsoln.met	.02 DJP	1.00	1.00
38	VFL07082015.0038.raw	simsoln.met	.02 DJP	1.00	1.00
39	VFL07082015.0039.raw	simsoln.met	.02 DJP	1.00	1.00
40	VFL07082015.0040.raw	simsoln.met	.02 DJP	1.00	1.00
41	VFL07082015.0041.raw	simsoln.met	.02 DJP	1.00	1.00
42	VFL07082015.0042.raw	simsoln.met	.02 DJP	1.00	1.00
43	VFL07082015.0043.raw	simsoln.met	.02 DJP	1.00	1.00
44	VFL07082015.0044.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
45	VFL07082015.0045.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
46	VFL07082015.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	VFL07082015.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	VFL07082015.0048.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
49	VFL07082015.0049.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
50	VFL07082015.0050.raw	Blood Alc temp VFL.MET	V15-1082 A1-1	1.00	1.00
51	VFL07082015.0051.raw	Blood Alc temp VFL.MET	V15-1082 A1-1	1.00	1.00
52	VFL07082015.0052.raw	Blood Alc temp VFL.MET	V15-1083 A1-2	1.00	1.00
53	VFL07082015.0053.raw	Blood Alc temp VFL.MET	V15-1083 A1-2	1.00	1.00
54	VFL07082015.0054.raw	Blood Alc temp VFL.MET	V15-1084 A1-1	1.00	1.00
55	VFL07082015.0055.raw	Blood Alc temp VFL.MET	V15-1084 A1-1	1.00	1.00
56	VFL07082015.0056.raw	Blood Alc temp VFL.MET	V15-1086 A1-1	1.00	1.00
57	VFL07082015.0057.raw	Blood Alc temp VFL.MET	V15-1086 A1-1	1.00	1.00
58	VFL07082015.0058.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
59	VFL07082015.0059.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
60	VFL07082015.0060.raw	Blood Alc temp VFL.MET	V15-1093 A1-1	1.00	1.00
61	VFL07082015.0061.raw	Blood Alc temp VFL.MET	V15-1093 A1-1	1.00	1.00
62	VFL07082015.0062.raw	simsoln.met	.40 DJP	1.00	1.00

All sim solns other than 0.1 not included AB 7/10/15

samples run w/in 24 hrs of col 7/10/15

casework samples not included AB 7/10/15

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Chrom Perfect Sequence File

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	VFL07082015.0063.raw	simsoln.met	.40 DJP	1.00	1.00
64	VFL07082015.0064.raw	simsoln.met	.40 DJP	1.00	1.00
65	VFL07082015.0065.raw	simsoln.met	.40 DJP	1.00	1.00
66	VFL07082015.0066.raw	simsoln.met	.40 DJP	1.00	1.00
67	VFL07082015.0067.raw	simsoln.met	.40 DJP	1.00	1.00
68	VFL07082015.0068.raw	simsoln.met	.40 DJP	1.00	1.00
69	VFL07082015.0069.raw	simsoln.met	.40 ALB	1.00	1.00
70	VFL07082015.0070.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
71	VFL07082015.0071.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
72	VFL07082015.0072.raw	simsoln.met	.40 ALB	1.00	1.00
73	VFL07082015.0073.raw	simsoln.met	.40 ALB	1.00	1.00
74	VFL07082015.0074.raw	simsoln.met	.40 ALB	1.00	1.00
75	VFL07082015.0075.raw	simsoln.met	.40 ALB	1.00	1.00
76	VFL07082015.0076.raw	simsoln.met	.40 ALB	1.00	1.00
77	VFL07082015.0077.raw	simsoln.met	.40 ALB	1.00	1.00
78	VFL07082015.0078.raw	Blood Alc temp VFL.MET	AQ 0.08 VER	1.00	1.00
79	VFL07082015.0079.raw	Blood Alc temp VFL.MET	AQ 0.08 VER	1.00	1.00
80	VFL07082015.0080.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
81	VFL07082015.0081.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

other sims and AQ not included AB 7/10/15

Samples run within 24 hours of calibration ~~Rus~~ Run is defined as prepared and AB 7/13/15 added to the sequence and autosampler.

AB
7/13/15

15-09-100 47 AB

File Name: C:\Methods\VFL07082015.CAL
Version: 7

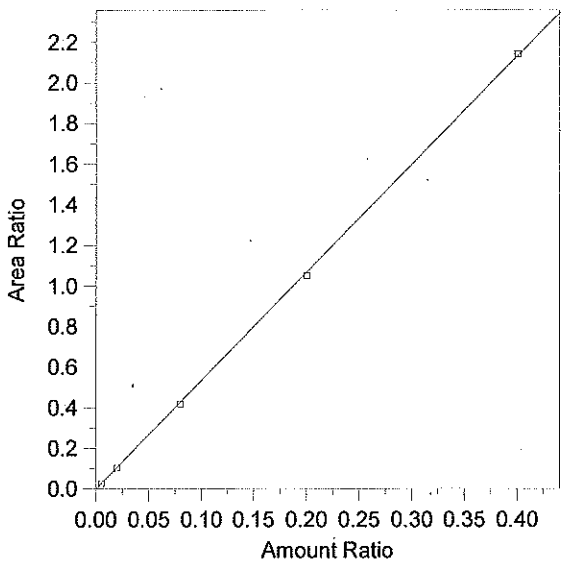
Creator:
Description:
Reason for change:

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

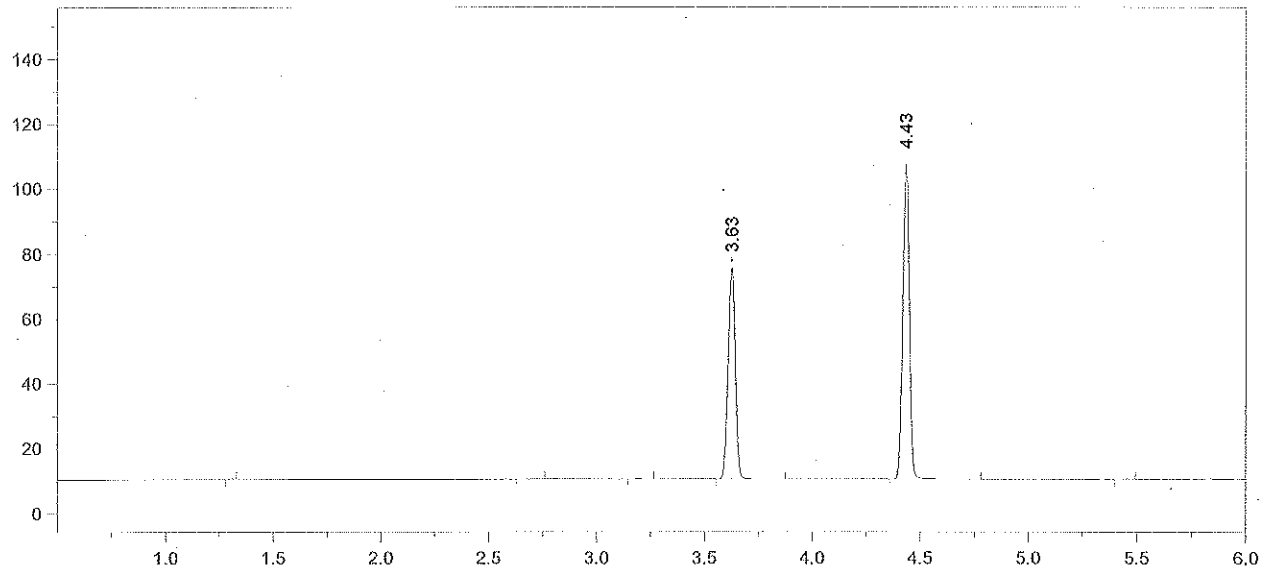
Y = 5.333998 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998475
Average error:	2.360%
Average CF:	5.292365
RSD:	2.964%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.005	5727.489	1145498	3.471	0.005	2.759559E-02	C:\Alcohol Data\VFL07082015\VFL07082015.0003.BND	7/8/2015 2:38:22 PM
3	0.02	18640.78	932039	-4.400	0.02	0.101986	C:\Alcohol Data\VFL07082015\VFL07082015.0004.BND	7/8/2015 2:55:39 PM
4	0.08	84075.09	1050939	-1.884	0.08	0.4186796	C:\Alcohol Data\VFL07082015\VFL07082015.0005.BND	7/8/2015 3:10:25 PM
5	0.2	200539.7	1002699	-1.566	0.2	1.050091	C:\Alcohol Data\VFL07082015\VFL07082015.0006.BND	7/8/2015 3:26:58 PM
6	0.4	378471.9	946179.8	0.477	0.4	2.143785	C:\Alcohol Data\VFL07082015\VFL07082015.0007.BND	7/8/2015 3:42:00 PM

15-09-100 48 AB DS



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:43:42 AM
Bound File Name = VFL07082015.0001.RAW
Sample Name = BLANK
Date Taken = 7/8/2015 2:07:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	151275	0.9604
5	4.43	n-Propanol	206672	1.0000

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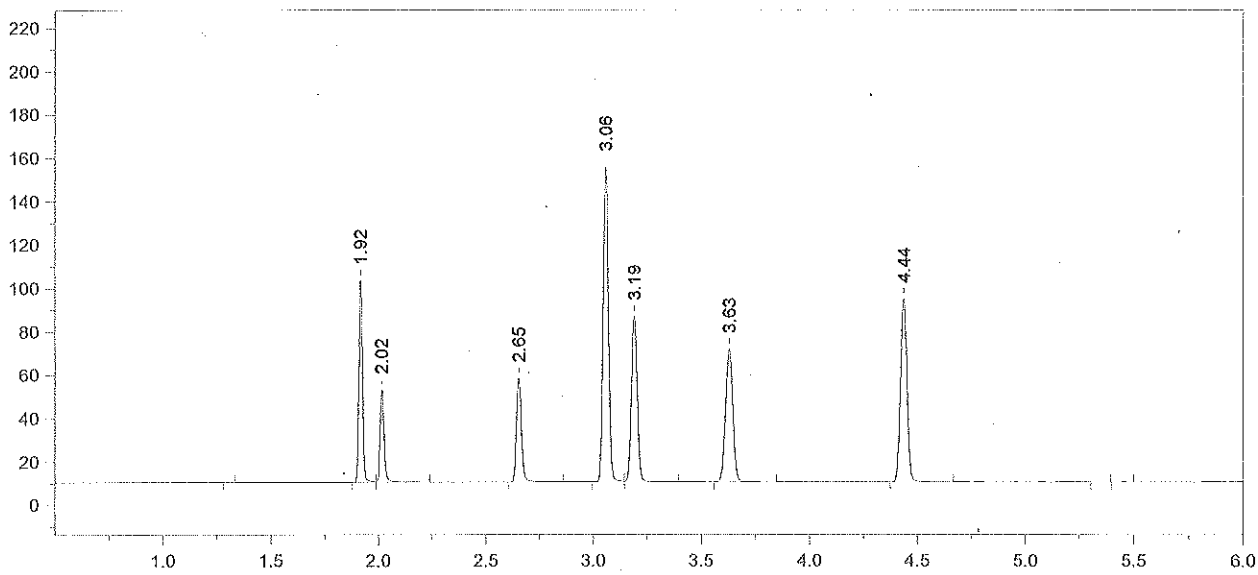
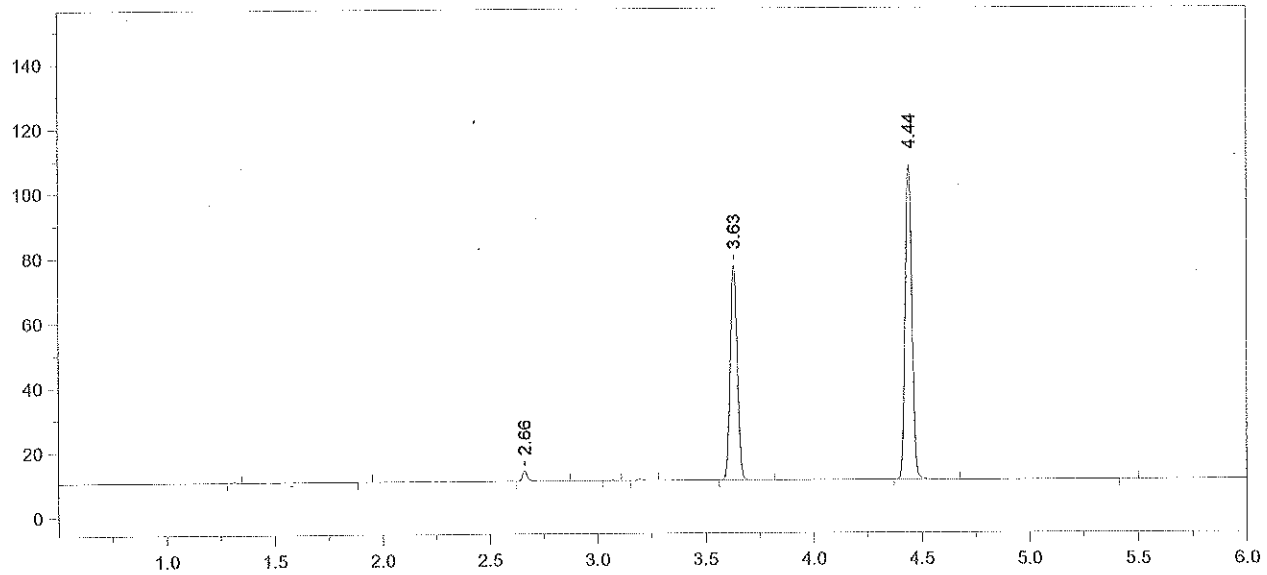


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:43:48 AM
Bound File Name = VFL07082015.0002.RAW
Sample Name = TMX
Date Taken = 7/8/2015 2:24:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	110440	0.0695
3	2.02	Methanol	54482	0.1232
4	2.65	Ethanol	75340	0.0784
5	3.06	Acetone	249991	0.0657
6	3.19	Isopropanol	144461	0.0848
7	3.63	t-Butanol	142162	1.0359
8	4.44	n-Propanol	180073	1.0000

15-09-100 50

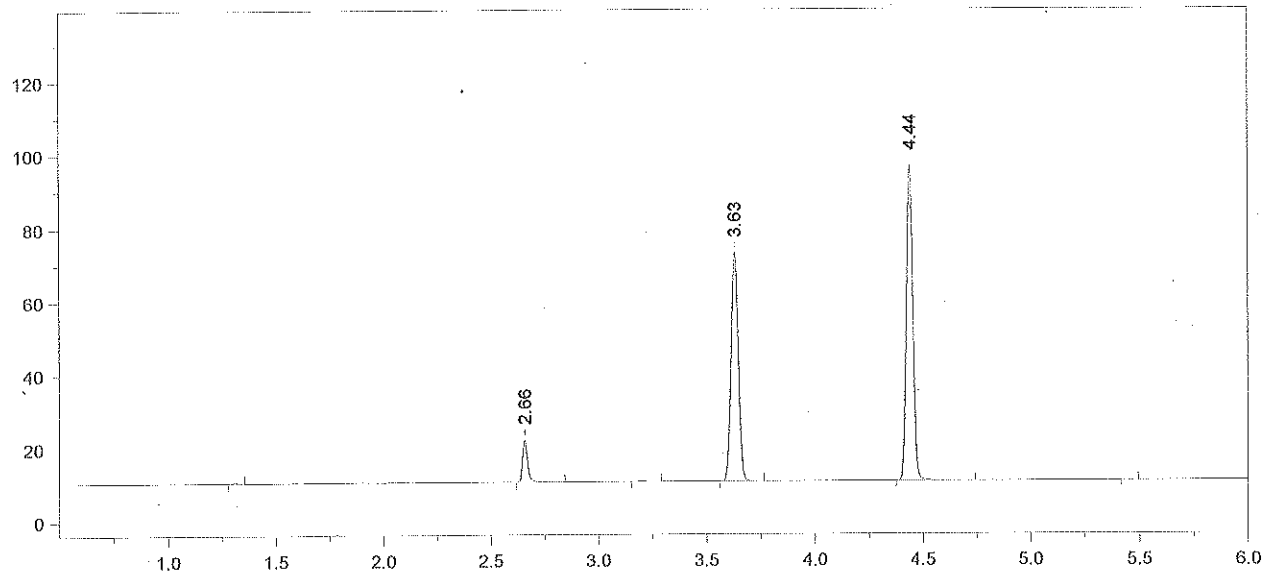


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:43:54 AM
Bound File Name = VFL07082015.0003.RAW
Sample Name = STD A
Date Taken = 7/8/2015 2:38:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05727	0.0052
6	3.63	t-Butanol	154549	0.9770
7	4.44	n-Propanol	207551	1.0000

15-09-100 51

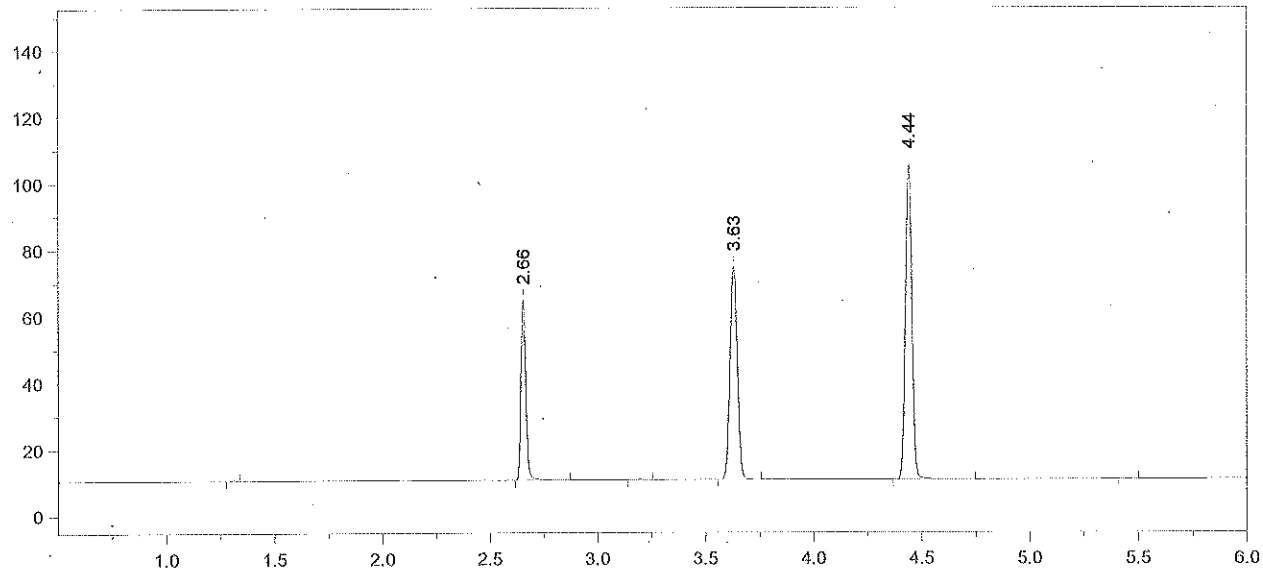


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:43:59 AM
Bound File Name = VFL07082015.0004.RAW
Sample Name = STD B
Date Taken = 7/8/2015 2:55:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	18641	0.0191
4	3.63	t-Butanol	144600	1.0381
5	4.44	n-Propanol	182778	1.0000

15-09-100 52 AB

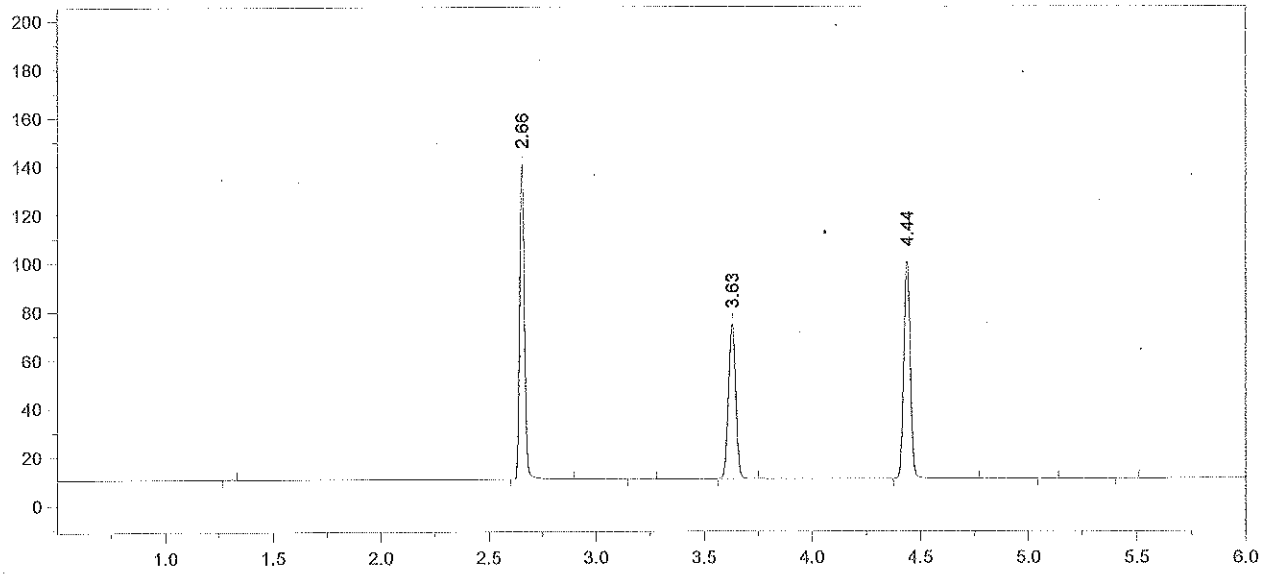


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:44:05 AM
Bound File Name = VFL07082015.0005.RAW
Sample Name = STD C
Date Taken = 7/8/2015 3:10:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	84075	0.0785
4	3.63	t-Butanol	148320	0.9691
5	4.44	n-Propanol	200810	1.0000

15-09-100 53

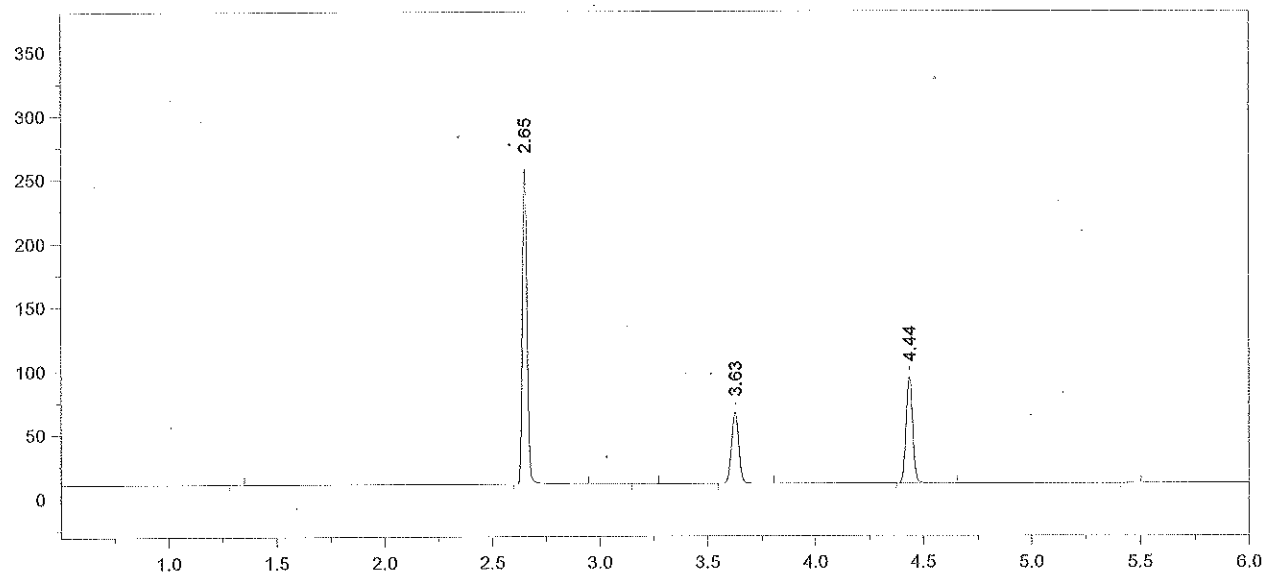


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:44:12 AM
Bound File Name = VFL07082015.0006.RAW
Sample Name = STD D
Date Taken = 7/8/2015 3:26:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	200540	0.1969
4	3.63	t-Butanol	147159	1.0111
5	4.44	n-Propanol	190974	1.0000

15-09-100 54

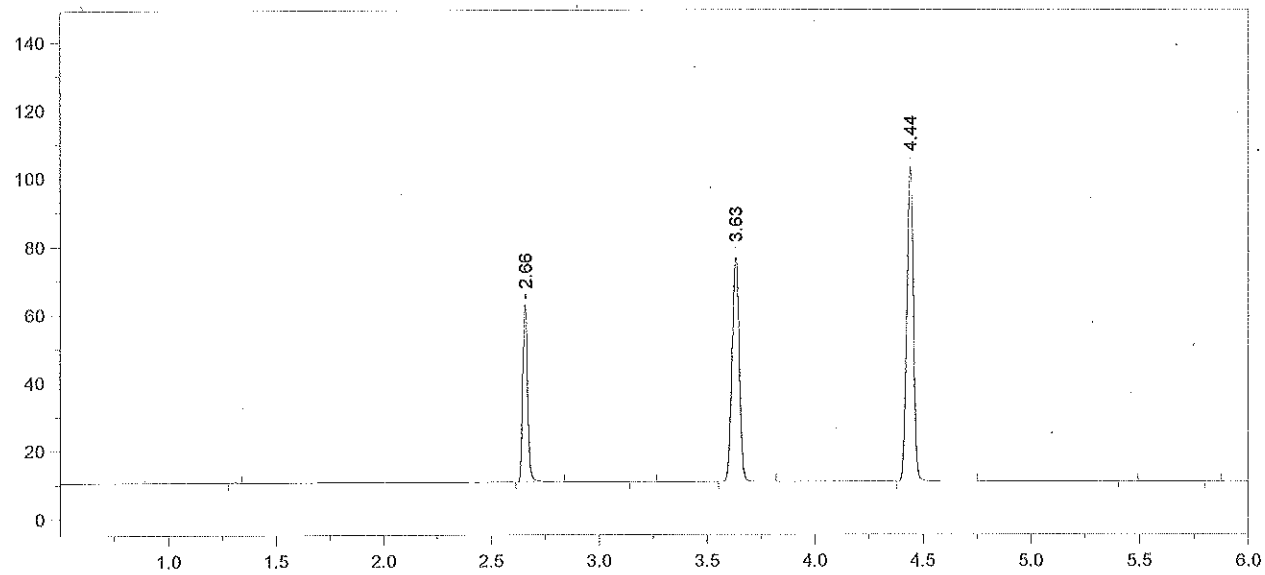


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:44:18 AM
Bound File Name = VFL07082015.0007.RAW
Sample Name = STD E
Date Taken = 7/8/2015 3:41:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	378472	0.4019
4	3.63	t-Butanol	130348	0.9688
5	4.44	n-Propanol	176544	1.0000

15-09-100 55 AB

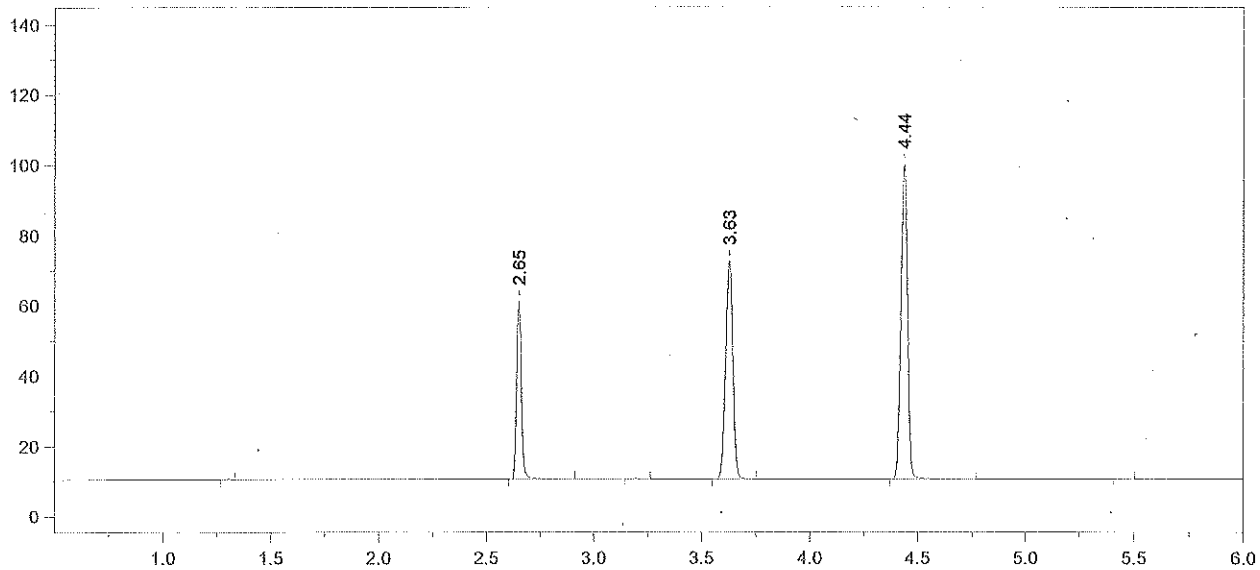


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 3:58:22 PM
Bound File Name = VFL07082015.0008.RAW
Sample Name = AQ
Date Taken = 7/8/2015 3:58:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	80949	0.0774
4	3.63	t-Butanol	153310	1.0255
5	4.44	n-Propanol	196153	1.0000

15-09-100 56



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 4:11:46 PM
Bound File Name = VFL07082015.0009.RAW
Sample Name = AQ
Date Taken = 7/8/2015 4:11:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79172	0.0777
4	3.63	t-Butanol	143761	0.9879
5	4.44	n-Propanol	190937	1.0000

AQ MEAN: 0.0775 % ETHANOL

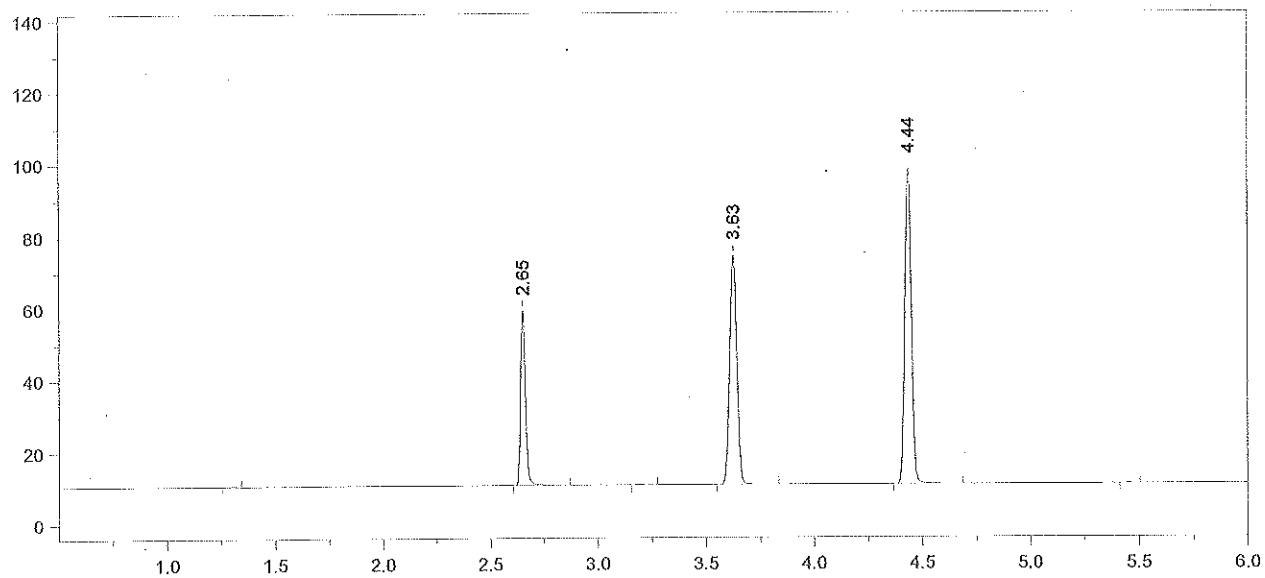
±5% 0.0736 – 0.0814

Recovery: $\frac{0.077}{0.08}$ = 96.2%

DJ 7/9/15

15-09-100 57

Chrom Perfect Chromatogram Report

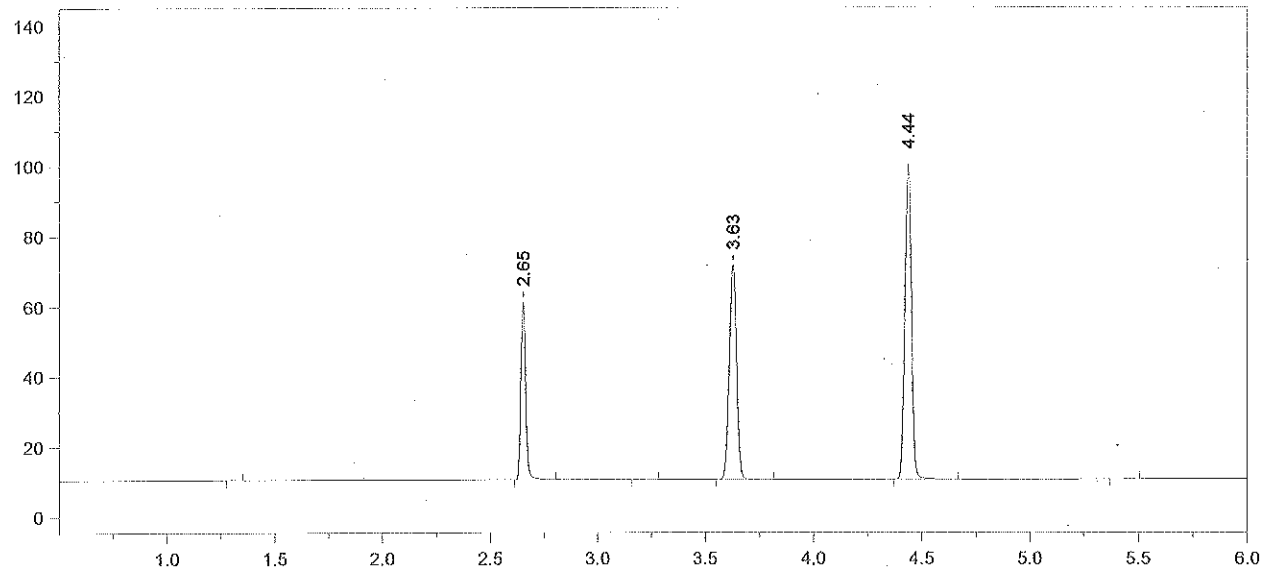


Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 4:29:47 PM
Bound File Name = VFL07082015.0010.RAW
Sample Name = CCS
Date Taken = 7/8/2015 4:29:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	75618	0.0762
4	3.63	t-Butanol	147263	1.0385
5	4.44	n-Propanol	186066	1.0000

15-09-100 58 MB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 4:43:05 PM
Bound File Name = VFL07082015.0011.RAW
Sample Name = CCS
Date Taken = 7/8/2015 4:43:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	78321	0.0771
4	3.63	t-Butanol	142166	0.9792
5	4.44	n-Propanol	190499	1.0000

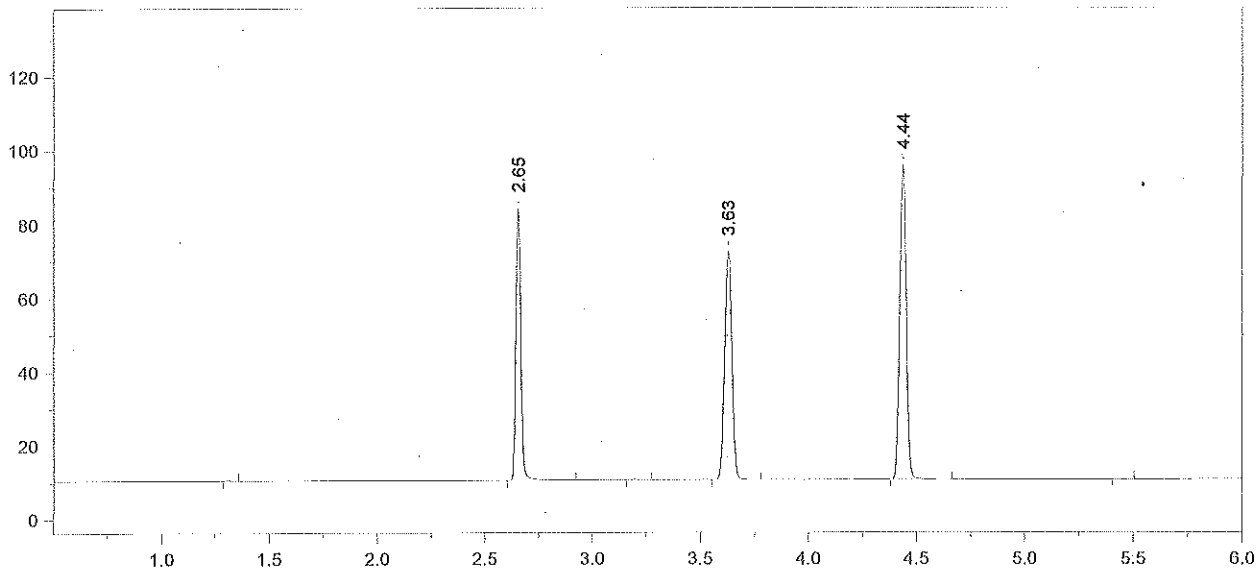
CCS MEAN: 0.0766% ETHANOL

±5%: 0.0728 - 0.0804

RECOVERY: $\frac{0.076}{0.08}$ = 95%

Dg 7/8/15

15-09-100 59 13

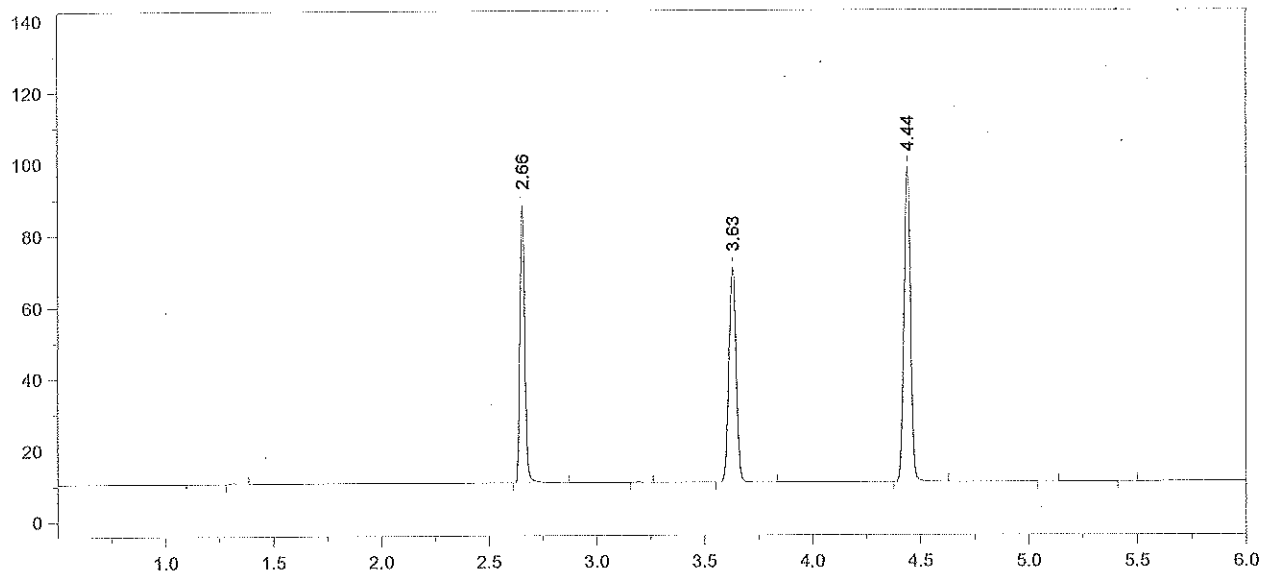


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 5:01:18 PM
Bound File Name = VFL07082015.0012.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 5:01:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	114194	0.1181	0.0964
4	3.63	t-Butanol	143608	1.0395	0.8484
5	4.44	n-Propanol	181269	1.0000	0.8162

15-09-100 60

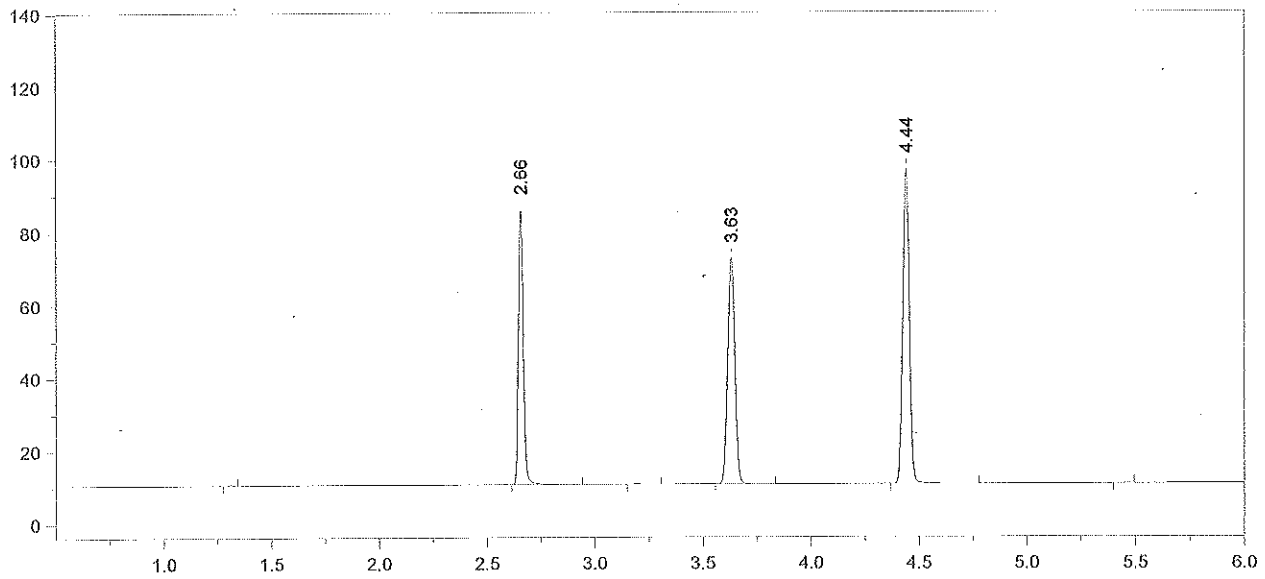


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 5:15:41 PM
Bound File Name = VFL07082015.0013.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 5:15:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	120215	0.1211	0.0989
4	3.63	t-Butanol	139624	0.9848	0.8038
5	4.44	n-Propanol	186038	1.0000	0.8162

15-09-100 61 13



Format File Name = simsolnVFL.met.FMT

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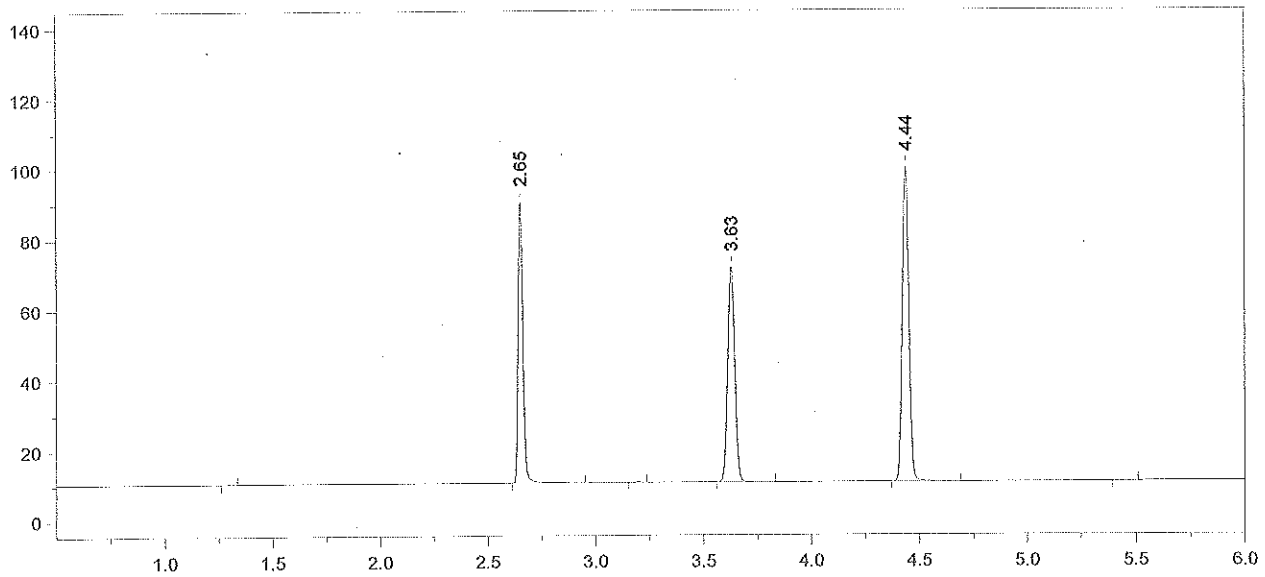
Today's Time = 5:32:44 PM
Bound File Name = VFL07082015.0014.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 5:32:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	116572	0.1189	0.0971
4	3.63	t-Butanol	144273	1.0300	0.8407
5	4.44	n-Propanol	183785	1.0000	0.8162

15-09-100



Format File Name = simsolnVFL.met.FMT

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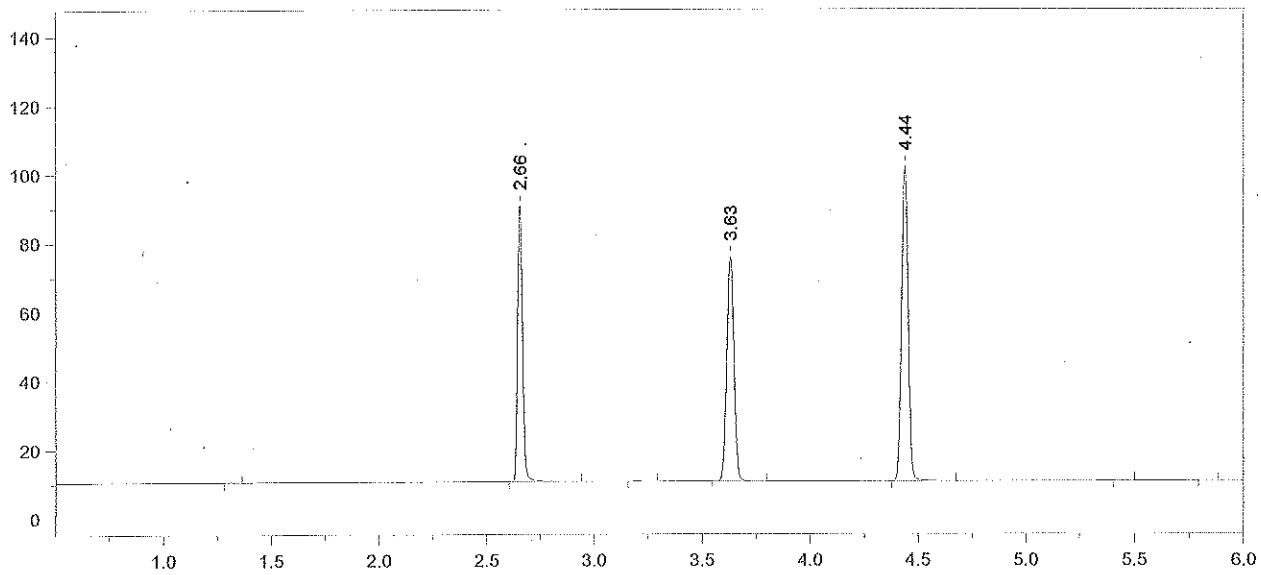
Today's Time = 5:46:28 PM
Bound File Name = VFL07082015.0015.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 5:46:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123557	0.1217	0.0993
4	3.63	t-Butanol	141449	0.9749	0.7958
5	4.44	n-Propanol	190368	1.0000	0.8162

15-09-1(V) 63 AB 85

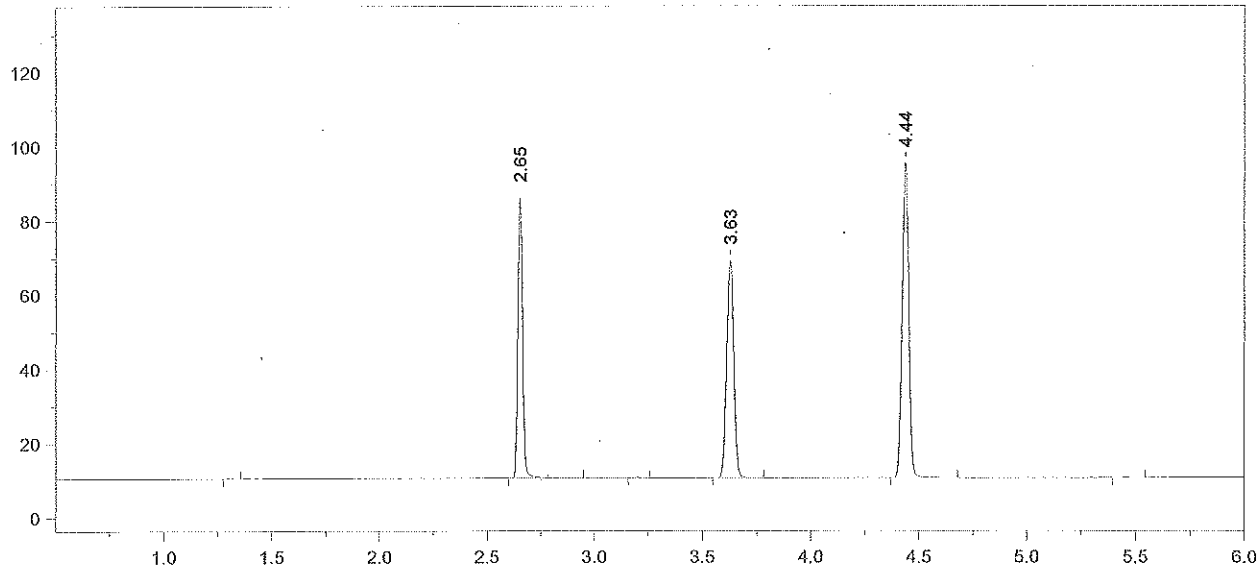


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 6:02:33 PM
Bound File Name = VFL07082015.0016.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 6:02:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	124342	0.1195	0.0975
4	3.63	t-Butanol	151508	1.0192	0.8319
5	4.44	n-Propanol	195053	1.0000	0.8162

15-09-100 64

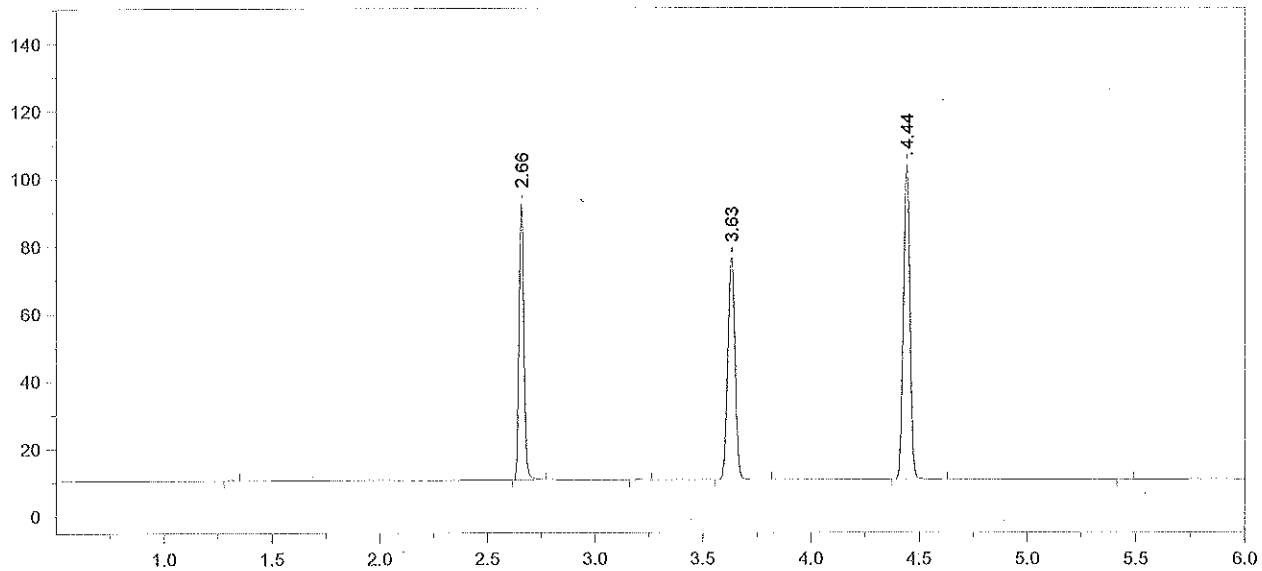


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 6:19:01 PM
Bound File Name = VFL07082015.0017.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 6:18:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117808	0.1225	0.1000
4	3.63	t-Butanol	135899	0.9888	0.8070
5	4.44	n-Propanol	180345	1.0000	0.8162

15-09-100 65

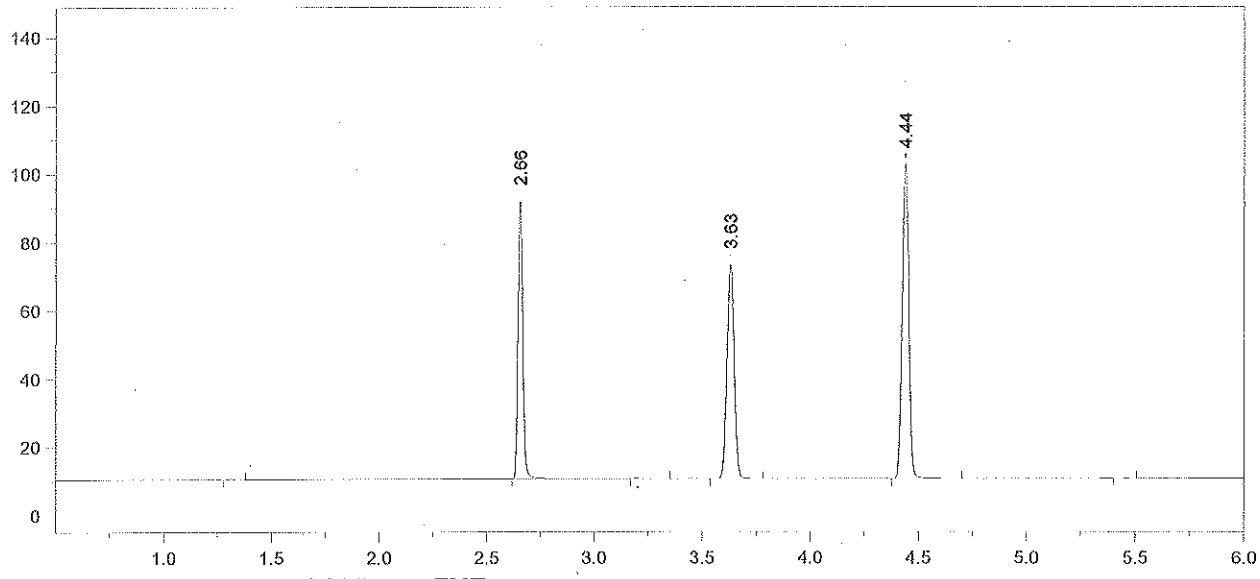


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 6:34:00 PM
Bound File Name = VFL07082015.0018.RAW
Sample Name = .10 ALB
Date Taken = 7/8/2015 6:33:52 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125102	0.1186	0.0968
4	3.63	t-Butanol	152794	1.0141	0.8277
5	4.44	n-Propanol	197692	1.0000	0.8162

15-09-100 66

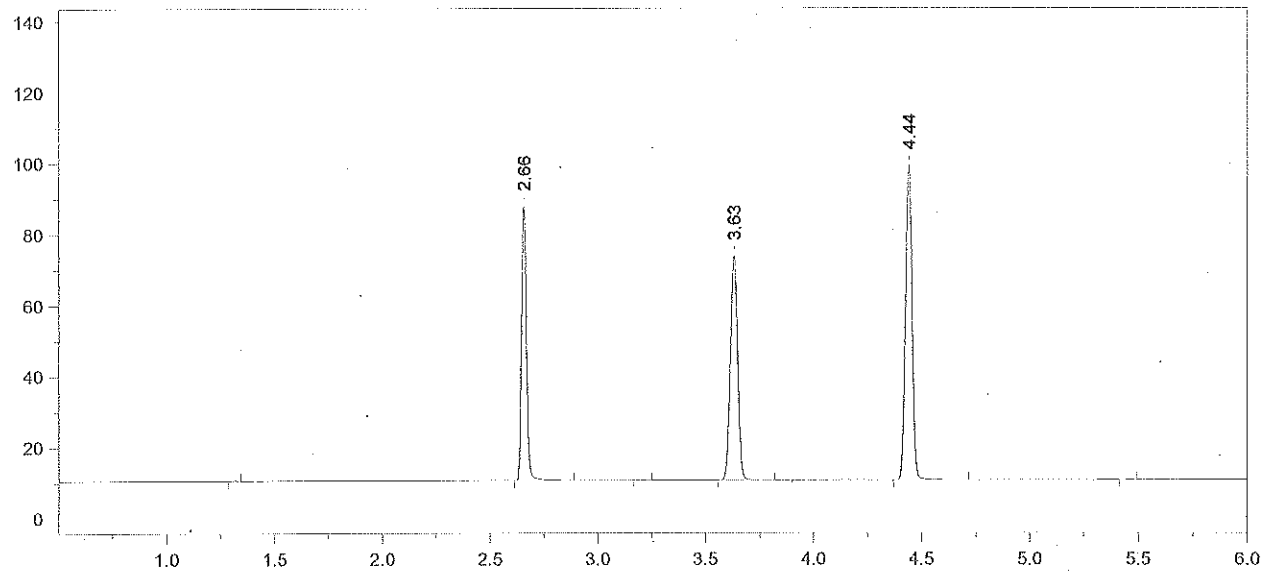


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 6:49:37 PM
Bound File Name = VFL07082015.0019.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 6:49:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	126032	0.1205	0.0984
4	3.63	t-Butanol	145734	0.9754	0.7961
5	4.44	n-Propanol	196049	1.0000	0.8162

15-09-100

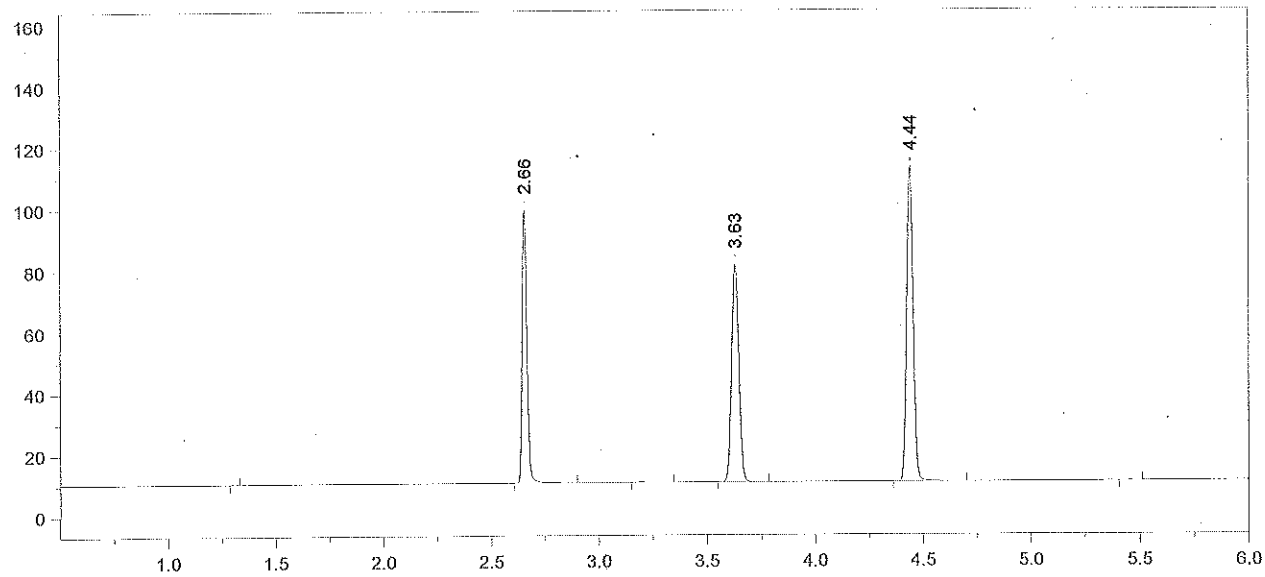


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 7:05:25 PM
Bound File Name = VFL07082015.0020.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 7:05:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	119184	0.1187	0.0969
5	3.63	t-Butanol	146604	1.0222	0.8343
6	4.44	n-Propanol	188190	1.0000	0.8162

15-09-100 68 AB

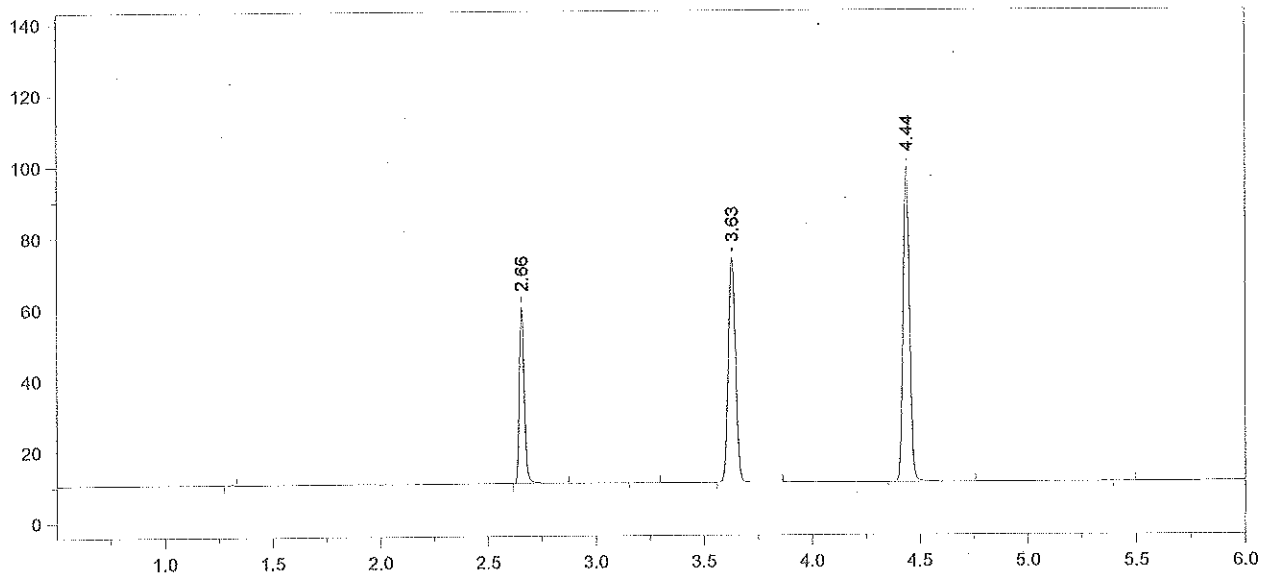


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 7:19:18 PM
Bound File Name = VFL07082015.0021.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 7:19:14 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	137976	0.1186	0.0968
4	3.63	t-Butanol	164244	0.9884	0.8067
5	4.44	n-Propanol	218034	1.0000	0.8162

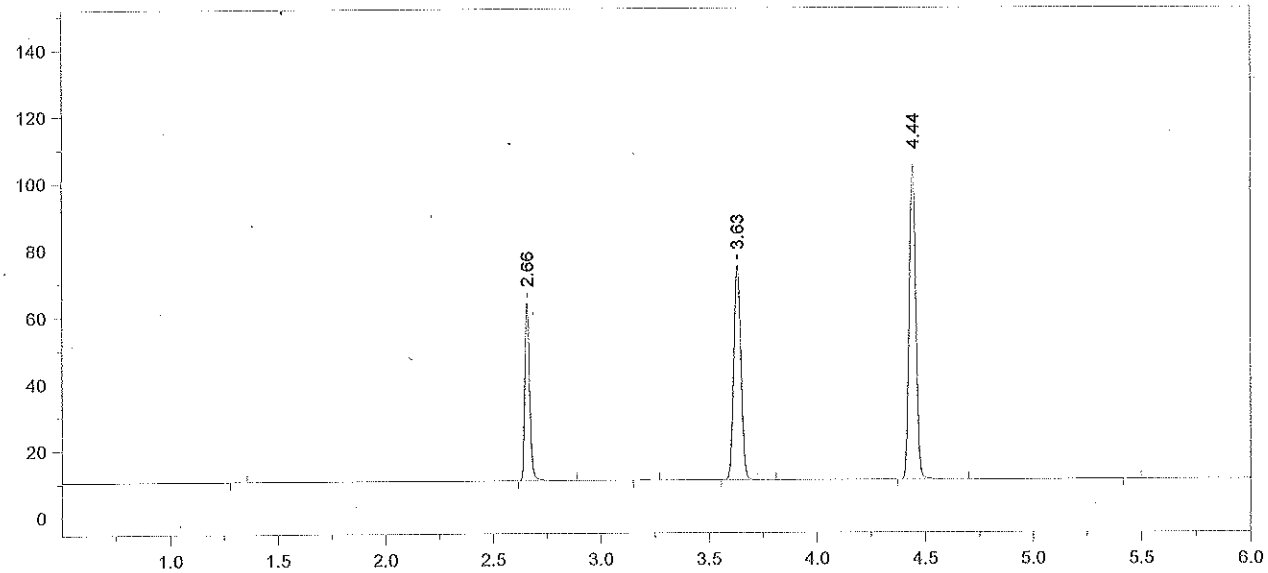
15-09-100 69



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 7:36:48 PM
Bound File Name = VFL07082015.0022.RAW
Sample Name = CCS
Date Taken = 7/8/2015 7:36:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76851	0.0766
4	3.63	t-Butanol	146350	1.0205
5	4.44	n-Propanol	188177	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 7:50:11 PM
Bound File Name = VFL07082015.0023.RAW
Sample Name = CCS
Date Taken = 7/8/2015 7:50:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	83303	0.0776
4	3.63	t-Butanol	149179	0.9728
5	4.44	n-Propanol	201215	1.0000

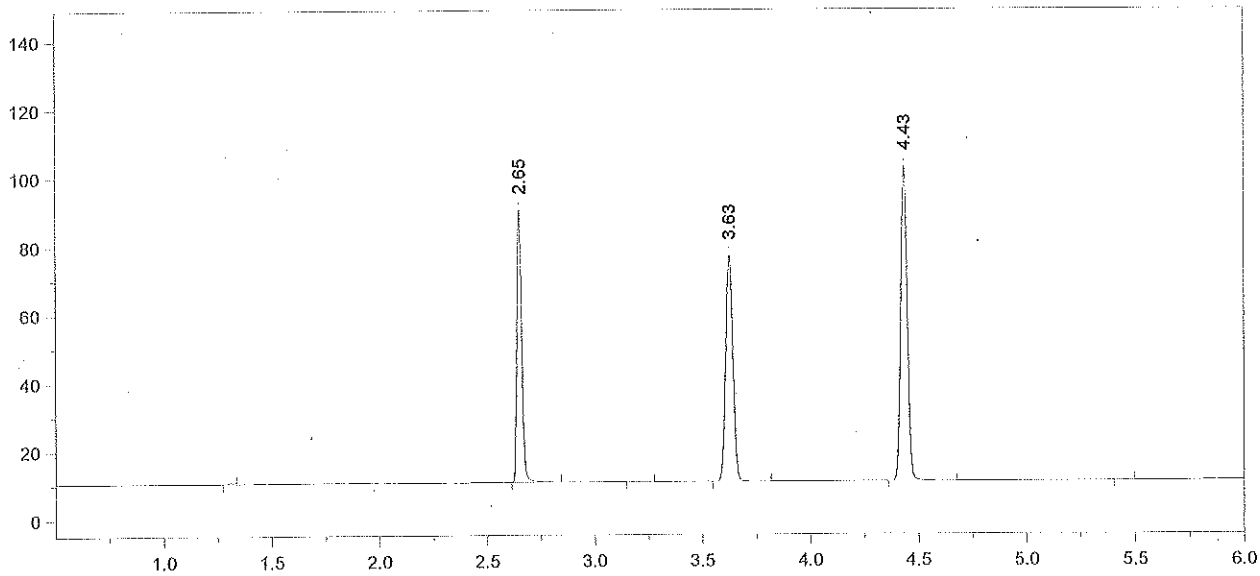
CCS MEAN: 0.0771 % ETHANOL

±5%: 0.0732 – 0.0809

RECOVERY: $\frac{0.077}{0.08}$ = 96.2%

DR 7/9/15

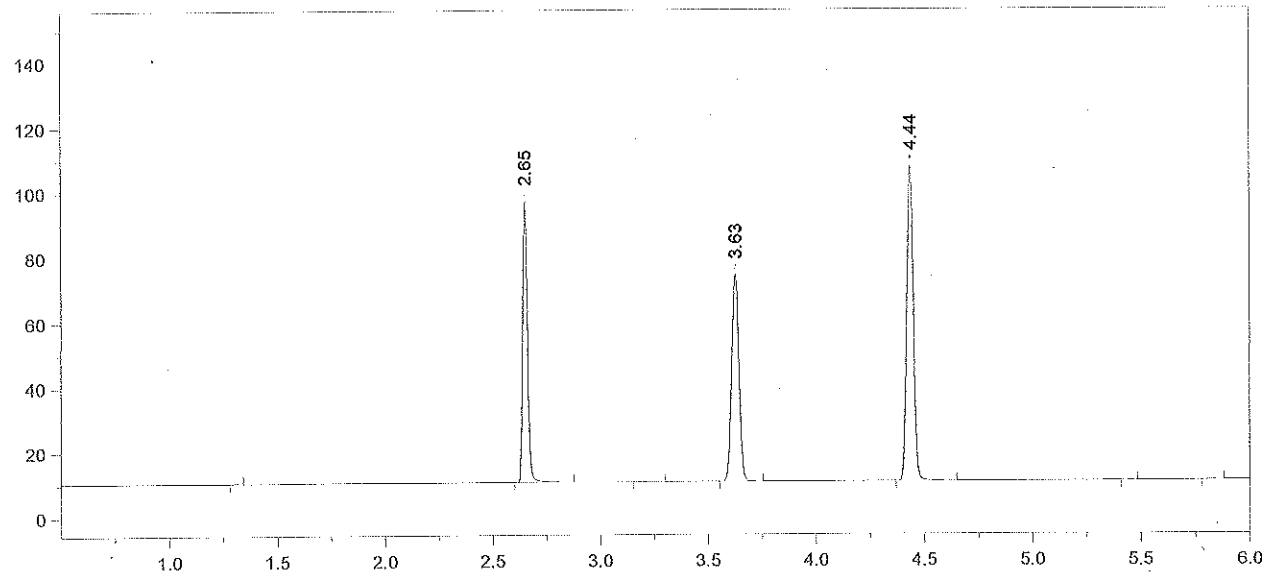
15-09-100 AB DR



Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 8:08:14 PM
Bound File Name = VFL07082015.0024.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 8:08:08 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123767	0.1182	0.0965
4	3.63	t-Butanol	153727	1.0277	0.8388
5	4.43	n-Propanol	196273	1.0000	0.8162

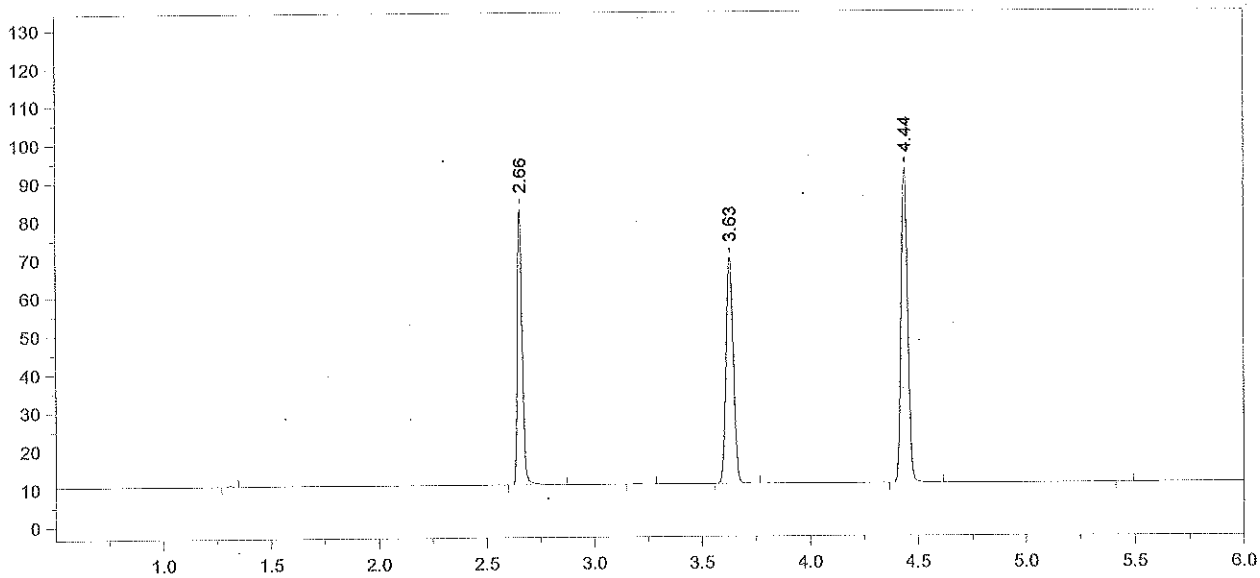


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 8:23:08 PM
Bound File Name = VFL07082015.0025.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 8:23:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133343	0.1218	0.0994
4	3.63	t-Butanol	148079	0.9464	0.7724
5	4.44	n-Propanol	205310	1.0000	0.8162

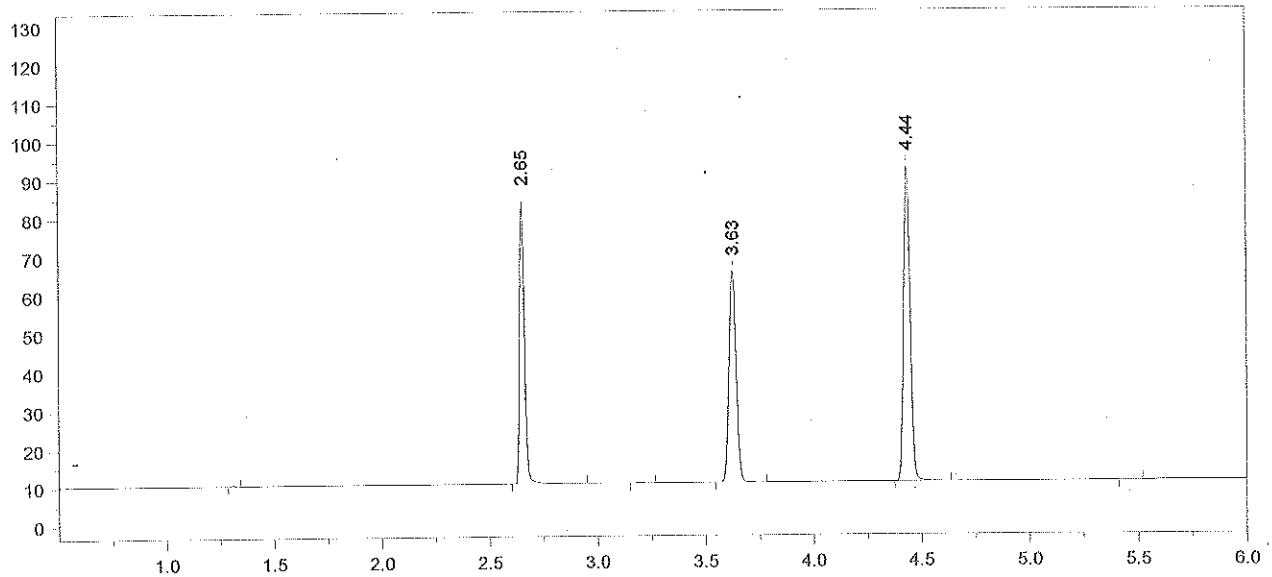
15-09-100 7.3



Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 8:39:41 PM
Bound File Name = VFL07082015.0026.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 8:39:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	111897	0.1193	0.0973
4	3.63	t-Butanol	136939	1.0214	0.8337
5	4.44	n-Propanol	175917	1.0000	0.8162

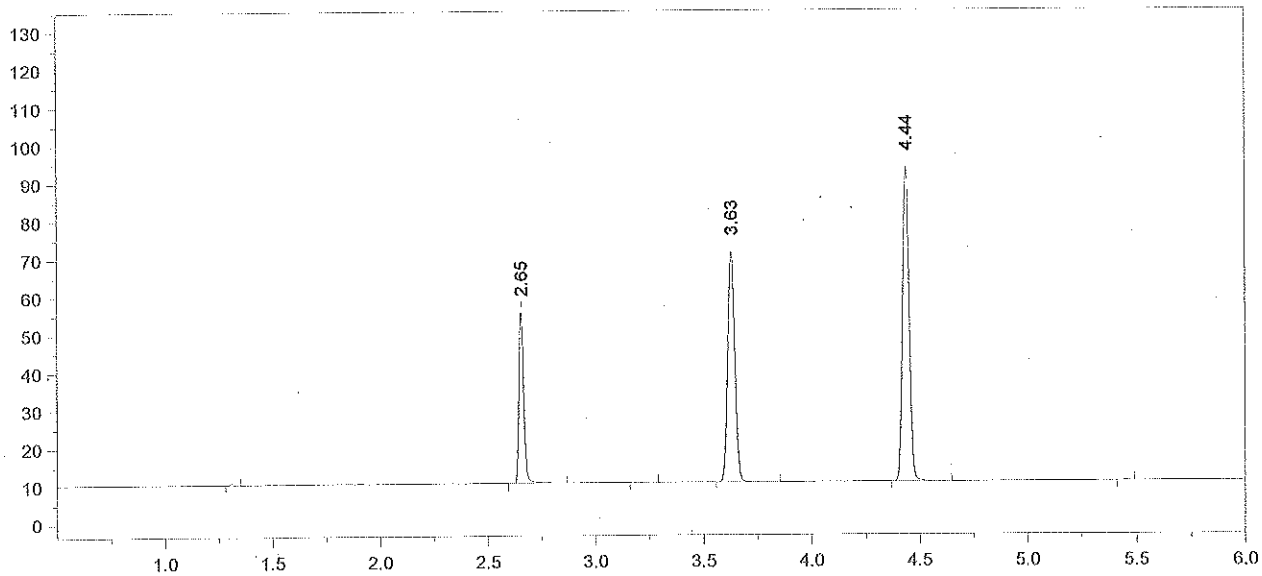


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/8/2015
Today's Time = 8:54:30 PM
Bound File Name = VFL07082015.0027.RAW
Sample Name = .10 DJP
Date Taken = 7/8/2015 8:54:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	113725	0.1230	0.1004
4	3.63	t-Butanol	127355	0.9638	0.7867
5	4.44	n-Propanol	173375	1.0000	0.8162

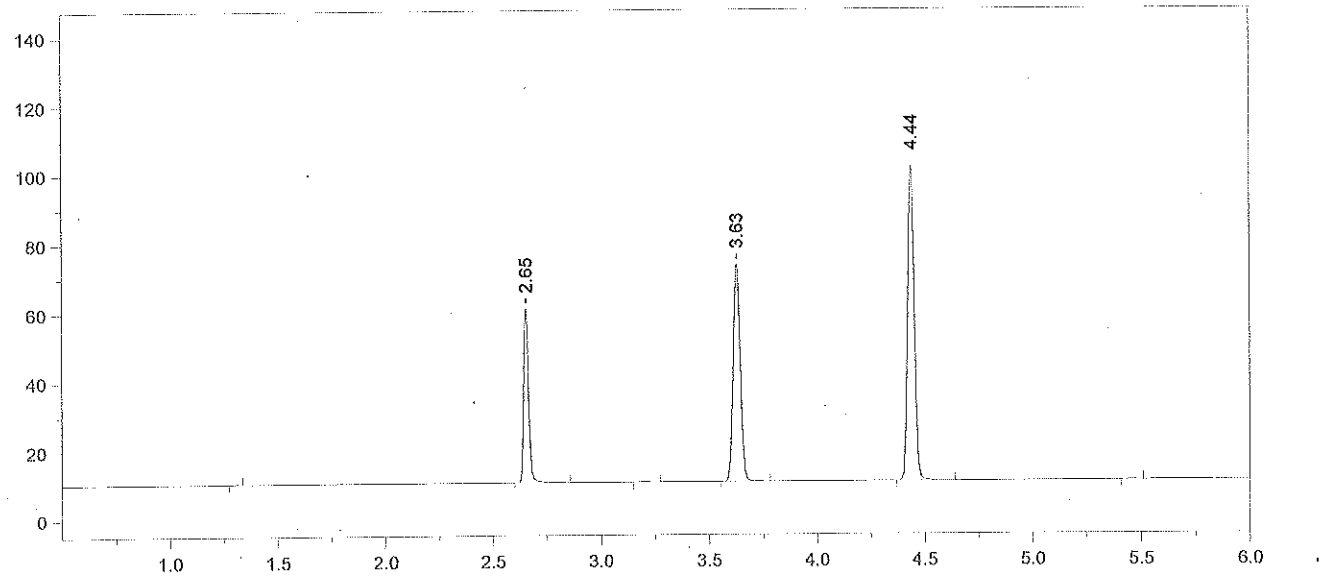
15-09-140 75 AB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 10:45:24 PM
Bound File Name = VFL07082015.0034.RAW
Sample Name = CCS
Date Taken = 7/8/2015 10:45:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	70895	0.0750
4	3.63	t-Butanol	141128	1.0446
5	4.44	n-Propanol	177264	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 7/8/2015
Today's Time = 10:58:37 PM
Bound File Name = VFL07082015.0035.RAW
Sample Name = CCS
Date Taken = 7/8/2015 10:58:32 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

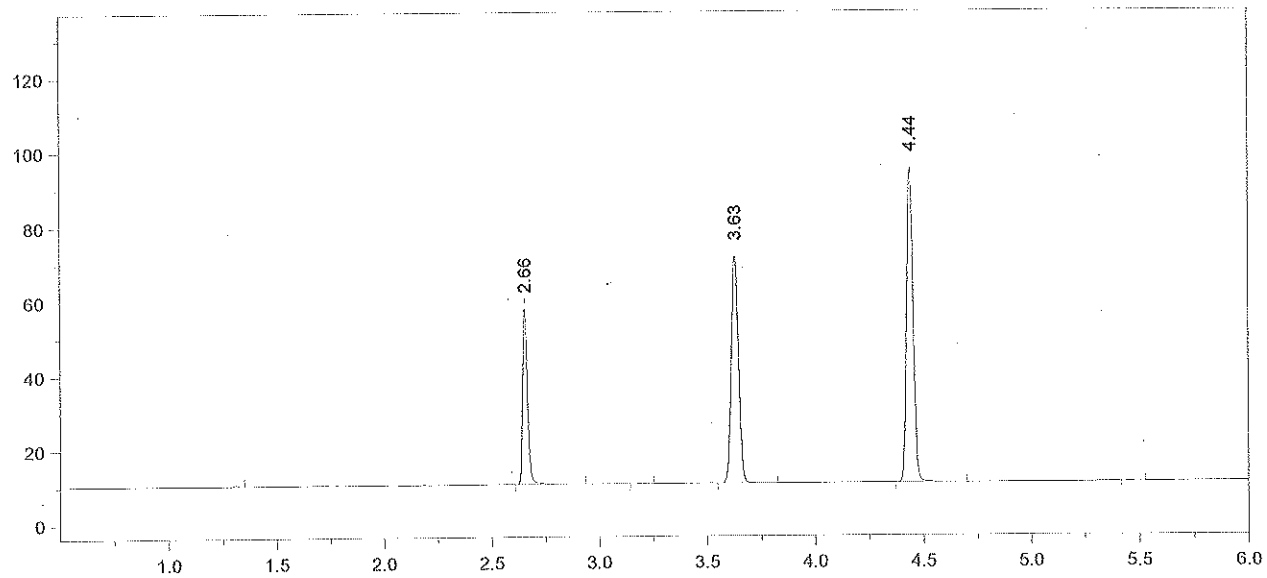
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79261	0.0765
4	3.63	t-Butanol	145550	0.9835
5	4.44	n-Propanol	194179	1.0000

CCS MEAN: 0.0757 % ETHANOL
±5% : 0.0719 – 0.0795
RECOVERY: $\frac{0.076}{0.08}$ = 95%

7/9/15

15-09-140

Chrom Perfect Chromatogram Report

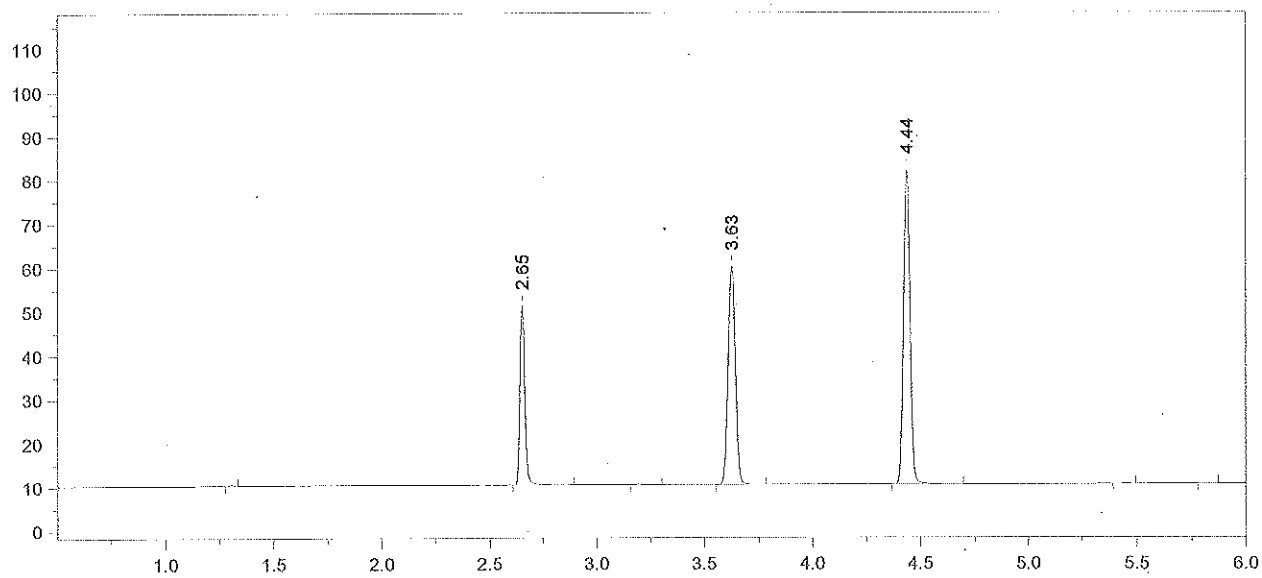


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 1:22:36 AM
Bound File Name = VFL07082015.0044.RAW
Sample Name = CCS
Date Taken = 7/9/2015 1:22:29 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	73566	0.0768
4	3.63	t-Butanol	141839	1.0367
5	4.44	n-Propanol	179525	1.0000

15-09-100 7 8



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 1:35:51 AM
Bound File Name = VFL07082015.0045.RAW
Sample Name = CCS
Date Taken = 7/9/2015 1:35:44 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

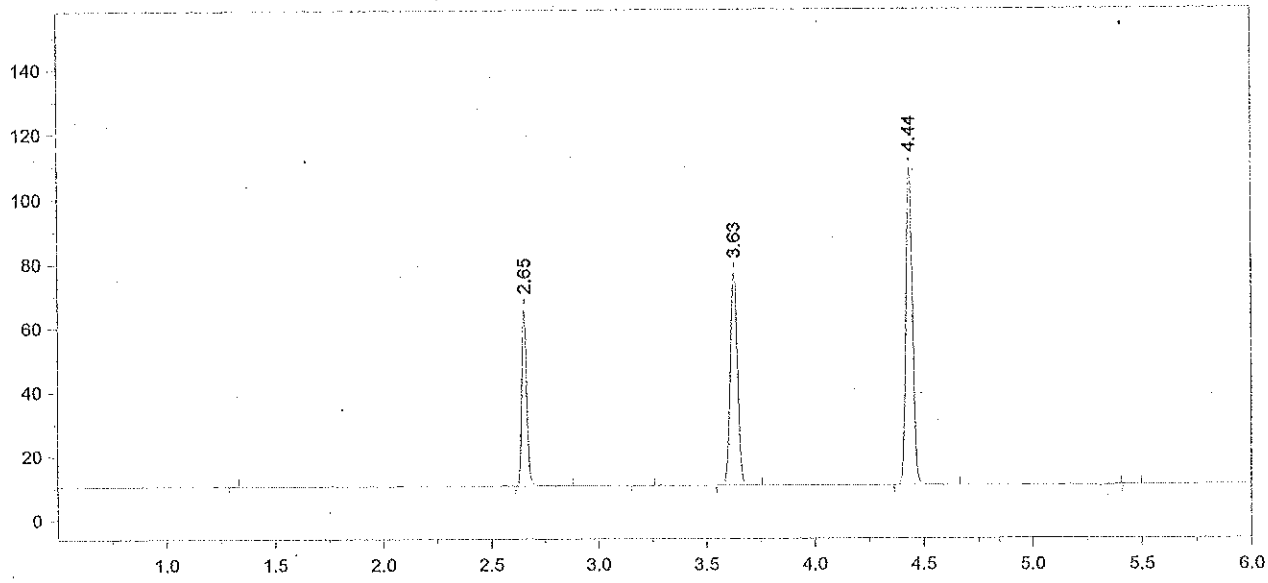
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	64140	0.0789
4	3.63	t-Butanol	115752	0.9960
5	4.44	n-Propanol	152490	1.0000

CCS MEAN: 0.0778 % ethanol

±5% : 0.0739 - 0.0817

Recovery: $\frac{0.078}{0.08}$ = 97.5%

7/9/15

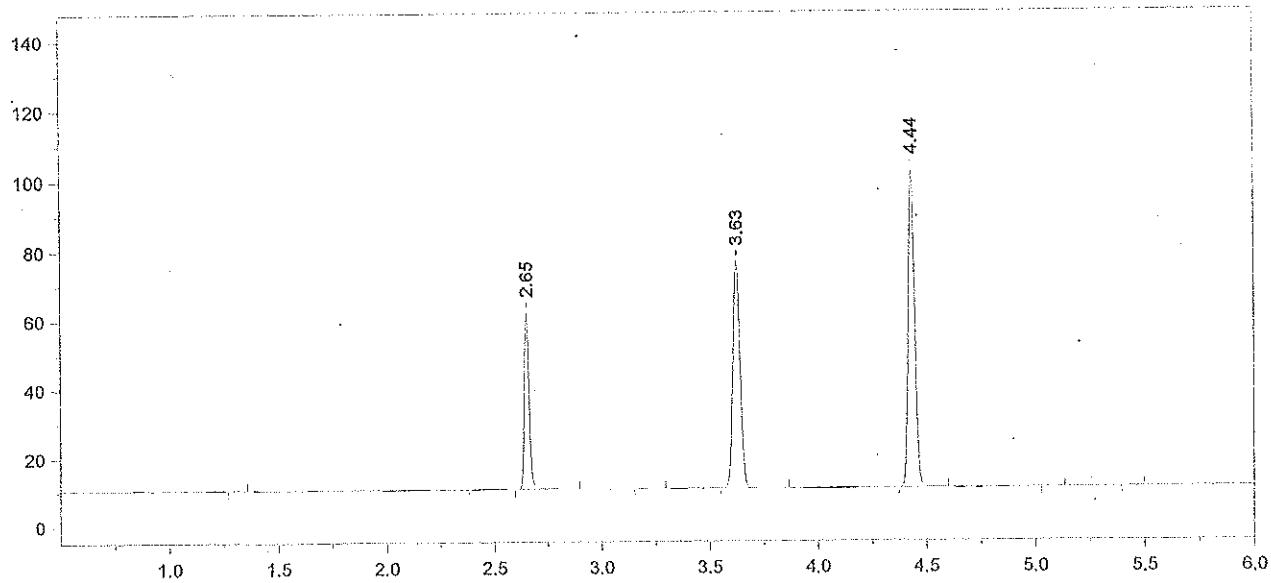


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 11:01:32 AM
Bound File Name = VFL07082015.0046.RAW
Sample Name = CCS
Date Taken = 7/9/2015 11:01:25 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85988	0.0773
4	3.63	t-Butanol	153703	0.9667
5	4.44	n-Propanol	208630	1.0000

15-09-100 80 AB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 11:17:55 AM
Bound File Name = VFL07082015.0047.RAW
Sample Name = CCS
Date Taken = 7/9/2015 11:17:47 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79809	0.0771
4	3.63	t-Butanol	152440	1.0303
5	4.44	n-Propanol	194140	1.0000

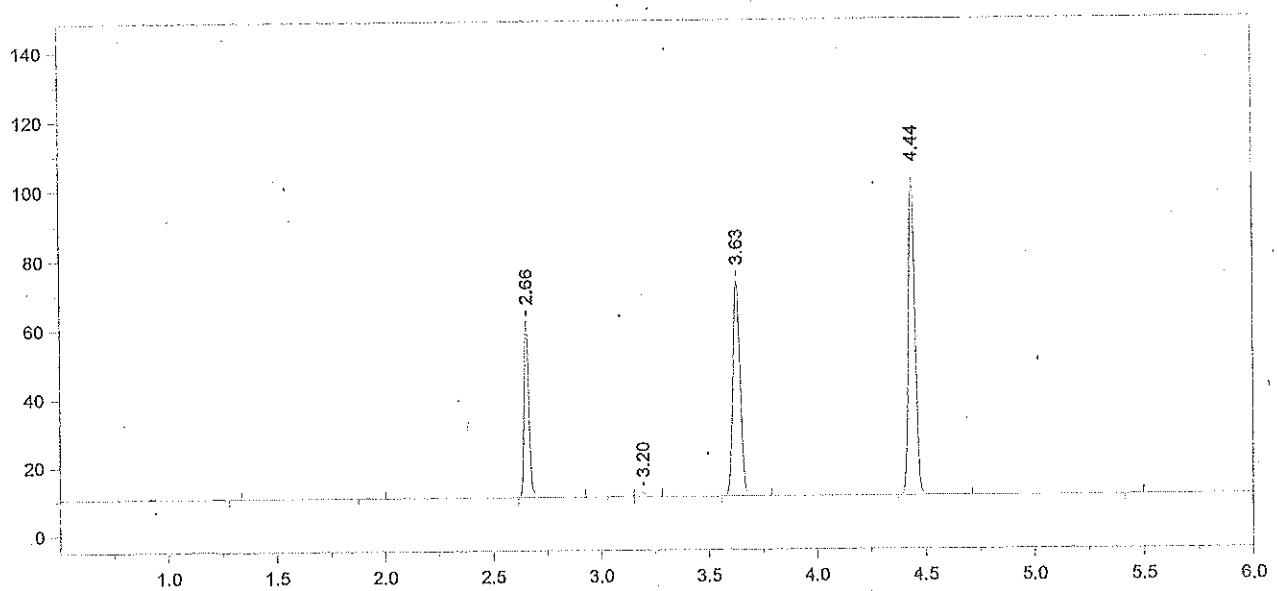
CCS MEAN: 0.0772 % ethanol

±5% : 0.0733 – 0.0810

Recovery: $\frac{0.077}{0.08}$ = 96.2%

7/10/15

15-09-100 81

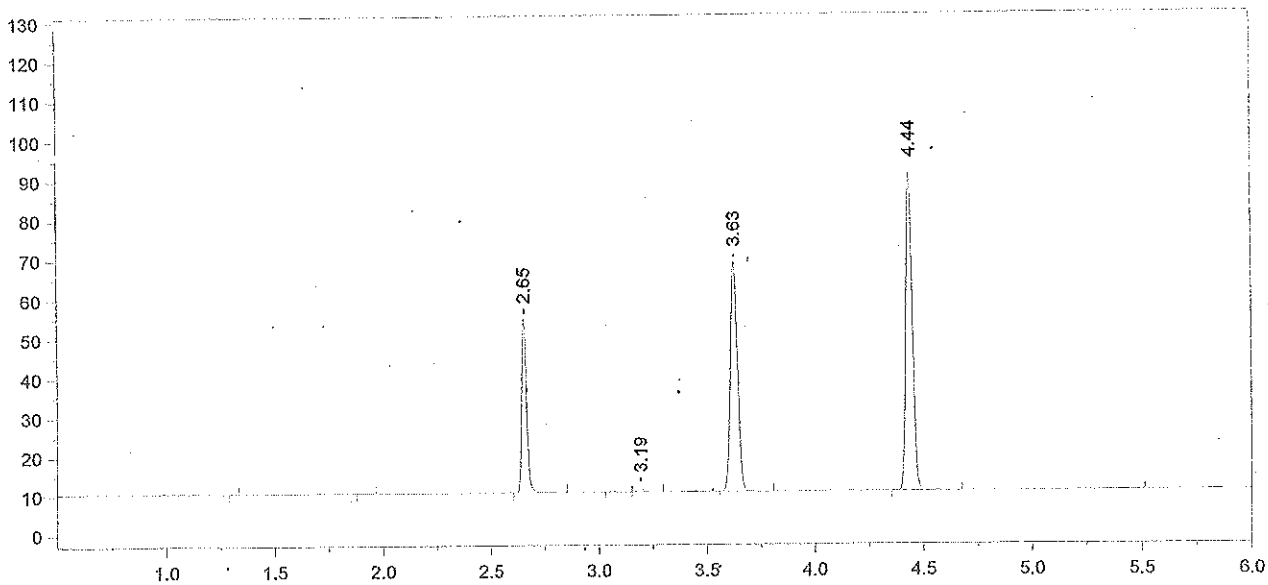


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 11:31:13 AM
Bound File Name = VFL07082015.0048.RAW
Sample Name = WB
Date Taken = 7/9/2015 11:31:09 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	80627	0.0771
6	3.20	Isopropanol	02338	<0.004
7	3.63	t-Butanol	145415	0.9737
8	4.44	n-Propanol	195948	1.0000

15-09-100 82 AB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 11:49:18 AM
Bound File Name = VFL07082015.0049.RAW
Sample Name = WB
Date Taken = 7/9/2015 11:49:10 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	69654	0.0765
5	3.19	Isopropanol	02114	<0.004
6	3.63	t-Butanol	134293	1.0324
7	4.44	n-Propanol	170686	1.0000

Cliniqa lot # 1212090 AB 7/10/15

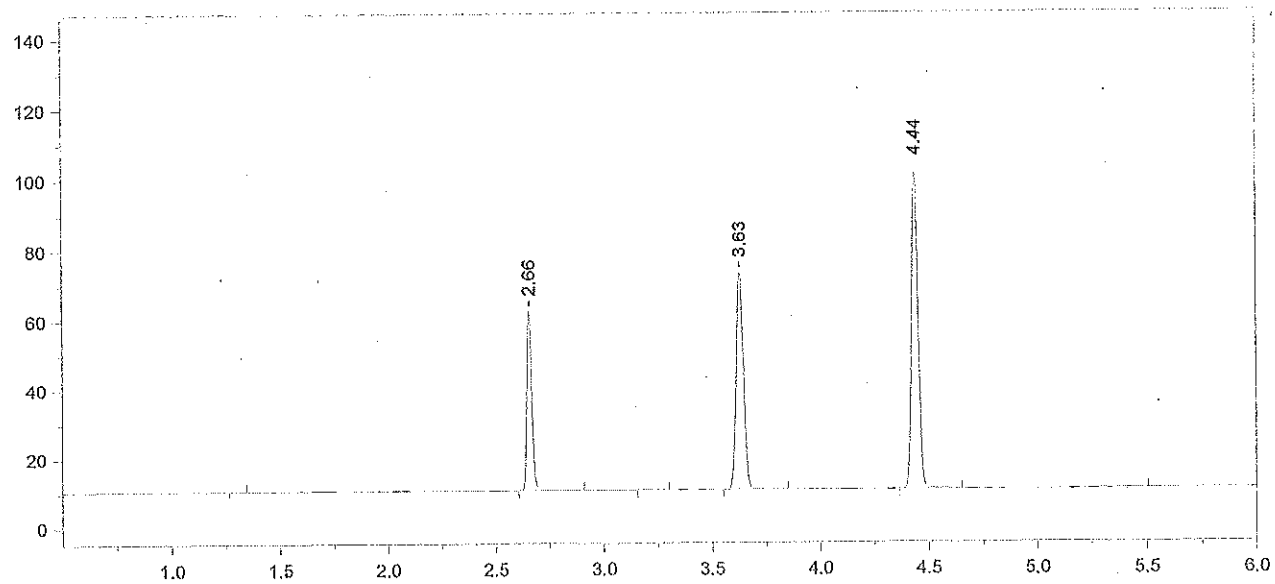
WB MEAN: 0.0768 % ETHANOL

±5% : 0.0729 – 0.0806

RECOVERY: $\frac{0.077}{0.08}$ = 96.2%

7/10/15

15-09-100 83 AB

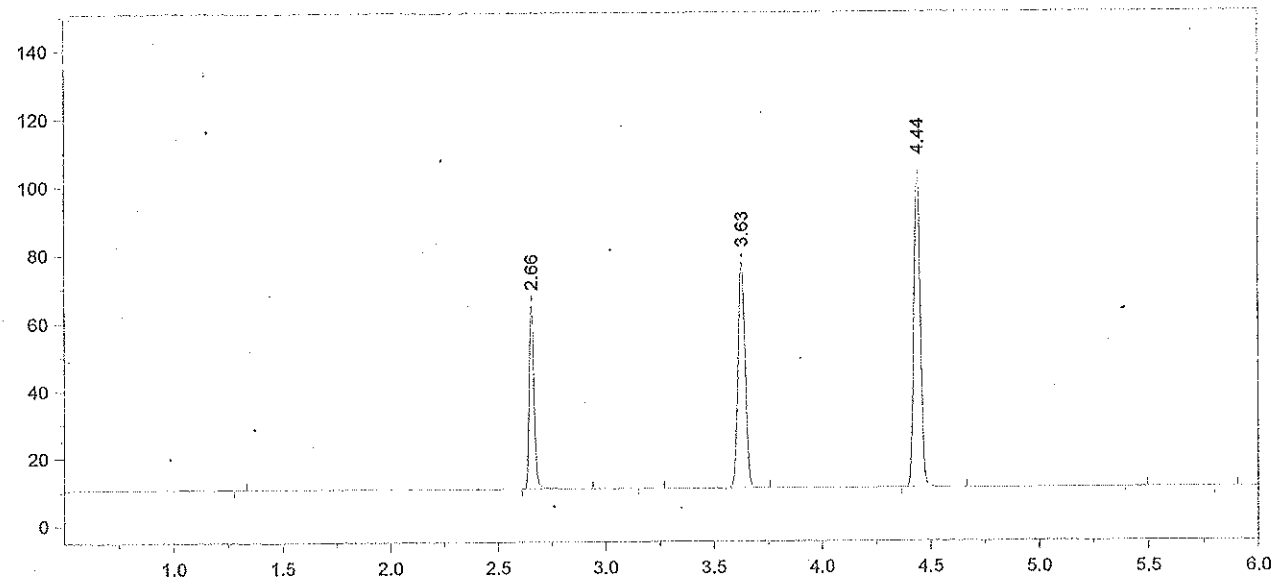


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 2:09:08 PM
Bound File Name = VFL07082015.0058.RAW
Sample Name = CCS
Date Taken = 7/9/2015 2:08:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	80547	0.0781
4	3.63	t-Butanol	145099	0.9849
5	4.44	n-Propanol	193297	1.0000

15-09-100 84 LB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 2:26:17 PM
Bound File Name = VFL07082015.0059.RAW
Sample Name = CCS
Date Taken = 7/9/2015 2:26:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

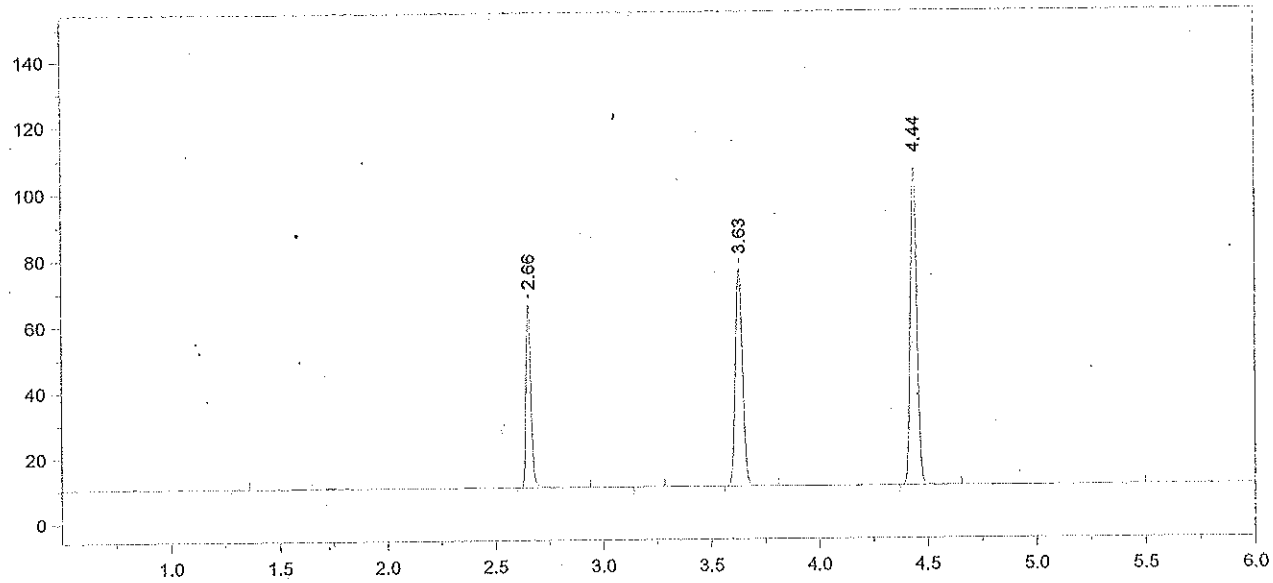
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	83984	0.0792
4	3.63	t-Butanol	154371	1.0194
5	4.44	n-Propanol	198701	1.0000

CCS MEAN: 0.0786% ETHANOL

±5% = 0.0747 - 0.0825

RECOVERY: $\frac{0.078}{0.08}$ = 97.5%

15-09-100

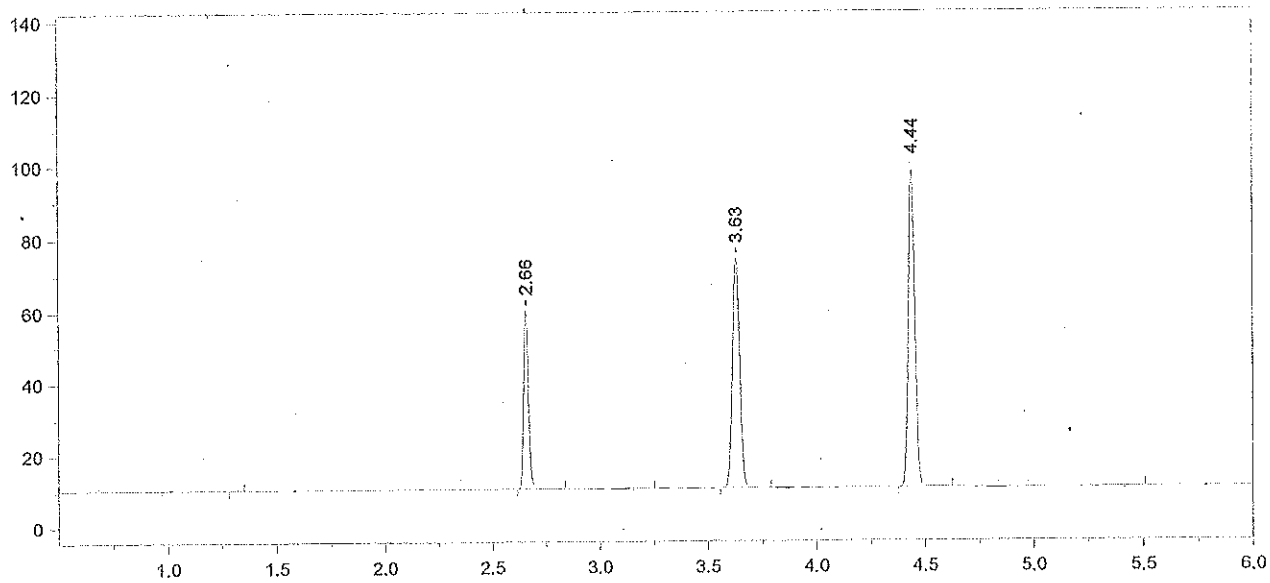


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 5:16:37 PM
Bound File Name = VFL07082015.0070.RAW
Sample Name = CCS
Date Taken = 7/9/2015 5:16:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	86802	0.0799
4	3.63	t-Butanol	152085	0.9803
5	4.44	n-Propanol	203555	1.0000

15-19-100 86 SB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 5:33:10 PM
Bound File Name = VFL07082015.0071.RAW
Sample Name = CCS
Date Taken = 7/9/2015 5:33:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76937	0.0774
4	3.63	t-Butanol	147466	1.0386
5	4.44	n-Propanol	186305	1.0000

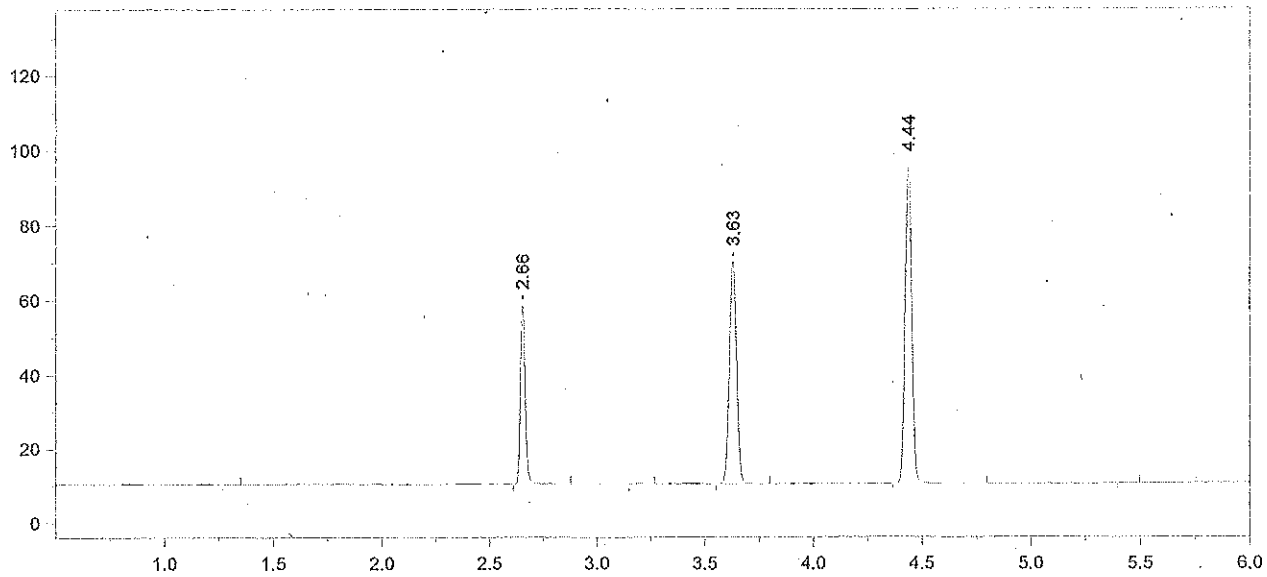
CCS MEAN: 0.0786 % Ethanol

±5% : 0.0747 - 0.0825

Recovery: $\frac{0.078}{0.08}$ = 97.5%

DR 7/10/15

15-09-100 87 AB

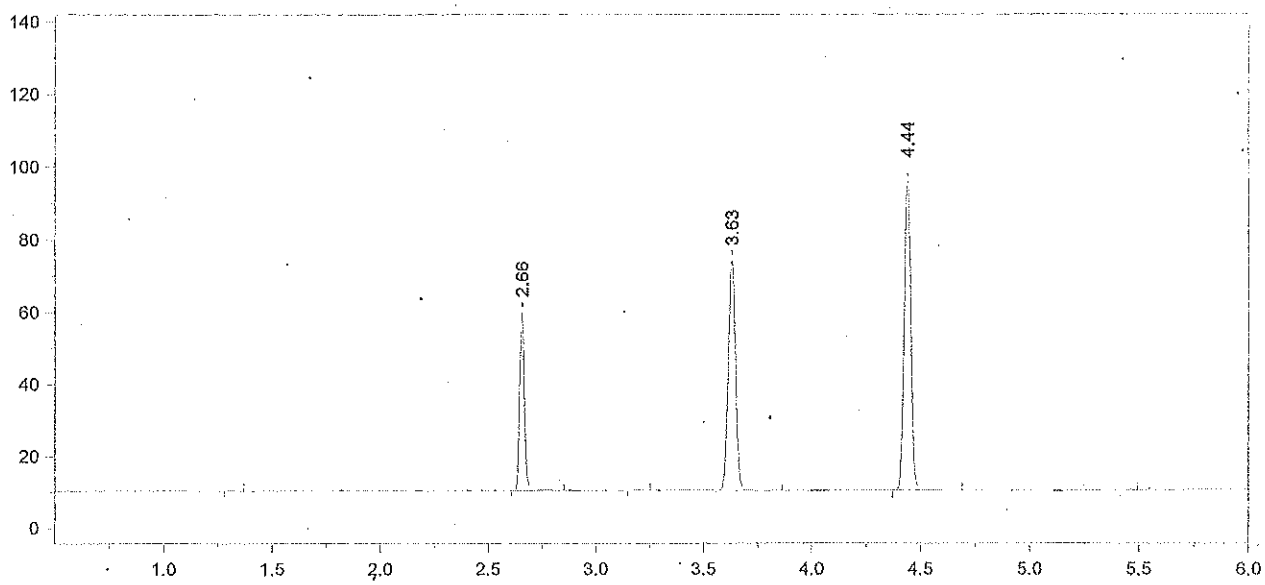


Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 7:53:26 PM
Bound File Name = VFL07082015.0080.RAW
Sample Name = CCS
Date Taken = 7/9/2015 7:53:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	75848	0.0783
4	3.63	t-Butanol	138556	1.0012
5	4.44	n-Propanol	181585	1.0000

15-09-100 SS AB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/9/2015
Today's Time = 8:08:41 PM
Bound File Name = VFL07082015.0081.RAW
Sample Name = CCS
Date Taken = 7/9/2015 8:08:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76657	0.0772
4	3.63	t-Butanol	147321	1.0382
5	4.44	n-Propanol	186198	1.0000

CCS MEAN: 0.0777 % Ethanol

±5% : 0.0738 – 0.0816

Recovery: $\frac{0.078}{0.08}$ = 97.5% 07/10/15

15-109-100 89