VERMONT FORENSIC LABORATORY

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

Certificate of Analysis of DataMaster Certification Solution

On 6/24/2015, an ethanol solution was prepared by ~~Amanda Bolduc~~ DAVID PATLAK for use as a DataMaster Certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 15-10-400 and an expiration date of 6/24/2016.

On 6/25/2015 and 7/9/2015, the solution was analyzed against calibration Cal Version VFL06252015.CAL and Cal Version VFL07082015.CAL. 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 0.402 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Certification solution.

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

Amanda Bolduc

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION REVIEW CHECKLIST

SOLUTION TYPE AND VOLUME: 0.40 Certification Solution 2L

LOT NUMBER#: 15-10-400 **ANALYST:** AB/DP

TECHNICAL REVIEWER: [signature] **DATE:** 7/14/2015

- [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

DataMaster Certification Solution
Lot # 15-10-400 EtOHaq Conc: 0.402 g/210 L
Range: 0.382 – 0.422
Preparation Date: 06/24/2015 Expires: 06/24/2016

OPENED:

DataMaster Certification Solution
Lot # 15-10-400 EtOHaq Conc: 0.402 g/210 L
Range: 0.382 – 0.422
Preparation Date: 06/24/2015 Expires: 06/24/2016

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DataMaster Certification Solution
Lot # 15-10-400 EtOHaq Conc: 0.402 g/210 L
Range: 0.382 – 0.422
Preparation Date: 06/24/2015 Expires: 06/24/2016

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OPENED:

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.40 Certification Solution 2L
Lot # 15-10-400
Prepared 06/24/2015 by DJP
Exp 6/24/2016

ALB CAL VFL06252015.CAL
ALB/DJP Vials
Analyzed on 06/25/2015

0.4038	DJP
0.3999	
0.4056	
0.4018	
0.4057	
0.4015	
0.4114	
0.3984	ALB
0.4125	
0.4073	
0.4147	
0.4050	
0.4185	
0.4094	

Ave. =	0.4068
Std Dev. =	0.0059
Min. =	0.3984
Max. =	0.4185

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-06022015A
TMX Lot #	TMX-08112014
BLANK LOT#	BL-01162015

DJP CAL VFL07082015.CAL
ALB/DJP Vials
Analyzed on 07/09/2015

0.3912	DJP
0.3923	
0.3972	
0.3935	
0.3988	
0.3909	
0.4002	
0.3894	~~DJP~~ AB 7/10/15
0.4028	
0.3903	
0.4029	
0.3985	
0.4028	
0.4011	

Ave. =	0.3966
Std Dev. =	0.0051
Min. =	0.3894
Max. =	0.4029

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-06022015A
TMX Lot #	TMX-~~06022015~~ 08112014
BLANK LOT#	BL-01162015

Total Values from Both Runs

Average	Mean
0.4038	0.3894
0.3999	0.3903
0.4056	0.3909
0.4018	0.3912
0.4057	0.3923
0.4015	0.3935
0.4114	0.3972
0.3984	0.3984
0.4125	0.3985
0.4073	0.3988
0.4147	0.3999
0.4050	0.4002
0.4185	0.4011
0.4094	0.4015
0.3912	0.4018
0.3923	0.4028
0.3972	
0.3935	0.4029
0.3988	0.4038
0.3909	0.4050
0.4002	0.4056
0.3894	0.4057
0.4028	0.4073
0.3903	0.4094
0.4029	0.4114
0.3985	0.4125
0.4028	0.4147
0.4011	0.4185

Ave. =	0.4017
Avg Std Dev. =	0.0075
Mean =	0.4017
Mean Std Dev. =	0.0076
Min. =	0.3894
Max =	0.4185
RPD =	7.24%

15-10-400 page 1 of ~~1~~ 2

ALC_F201_2_v1_12182014
Approved by Lab Director

Chrom Perfect Sequence File

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	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

Casework samples not included AB 7/8/15

Different std solu lot; not included. AB 7/8/15

0.40 AB 7/8/15

Samples #52 and on run w/in 24 hrs of cal AB 7/8/15

15-10-400 DATE 2

AB 7/10/15

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 7/8/15

Vials for this lot were mistakenly labeled 0.04 on the sequence Ale. Solution is a ~~a~~ 0.40 AB 7/8/15

AB 7/8/15

AB 7/8/15 15-10-400 Page 3

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

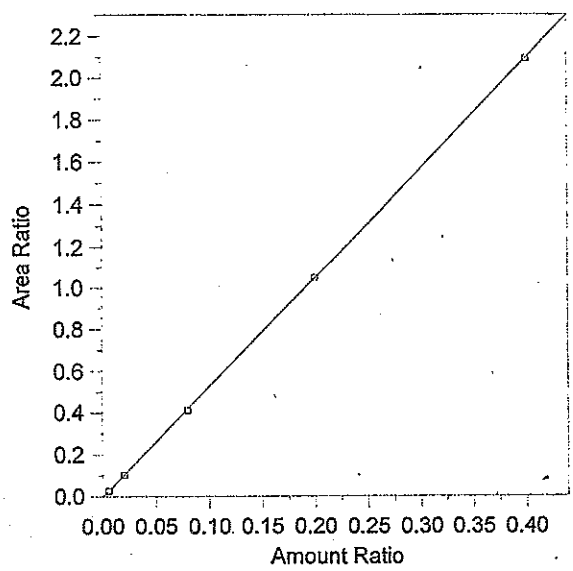
Creator:
Description:
Reason for change:

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

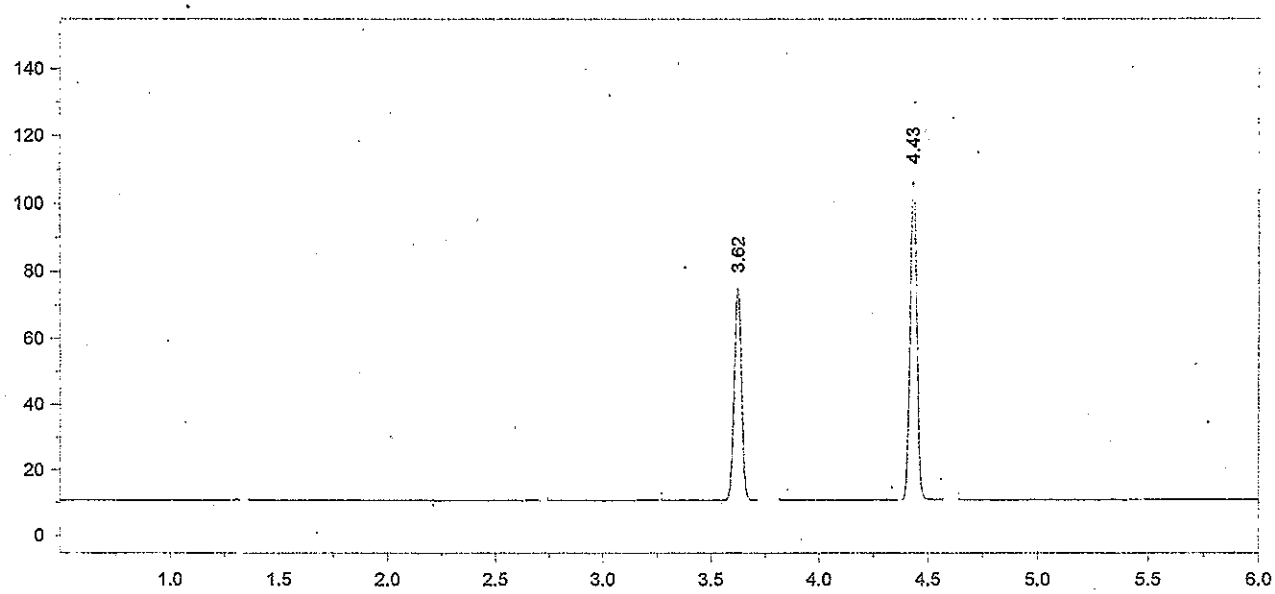
Y = 5.231585 X + 0

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

AB 7/10/15

15-10-400 Page 4

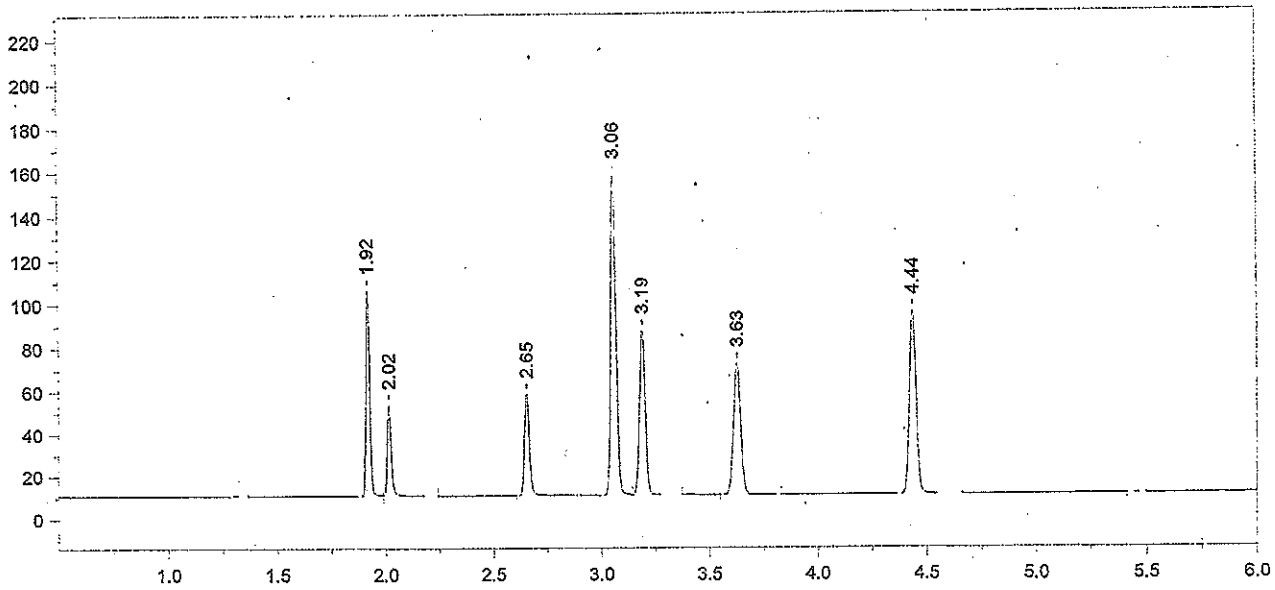


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-4100 Page 5

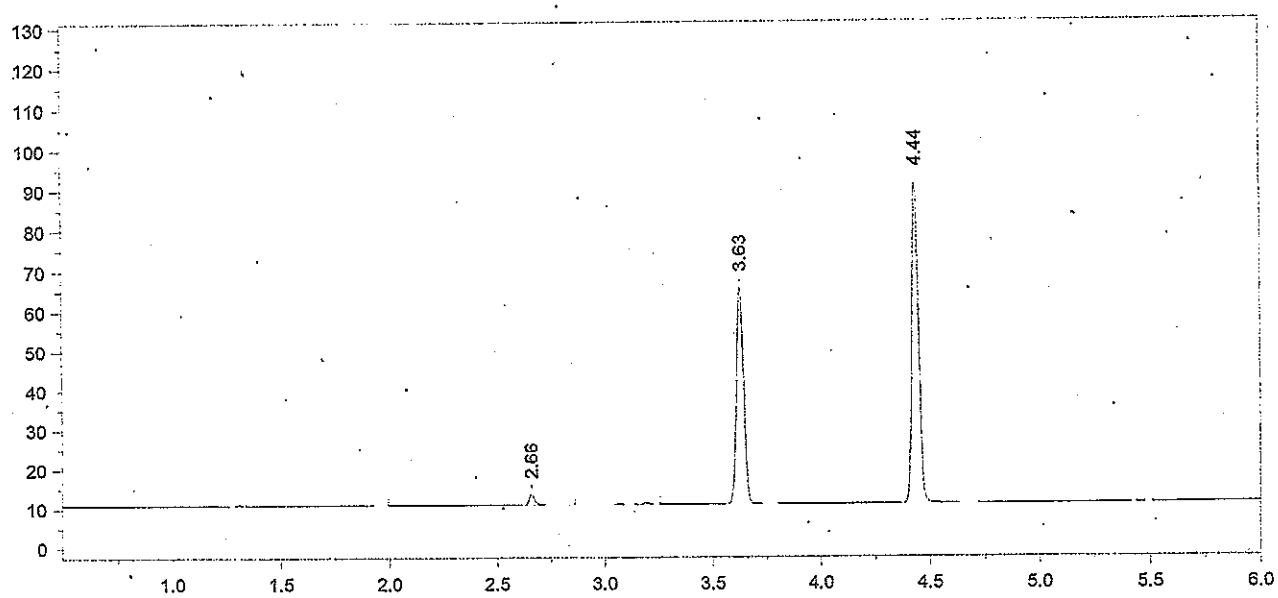


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p. 6

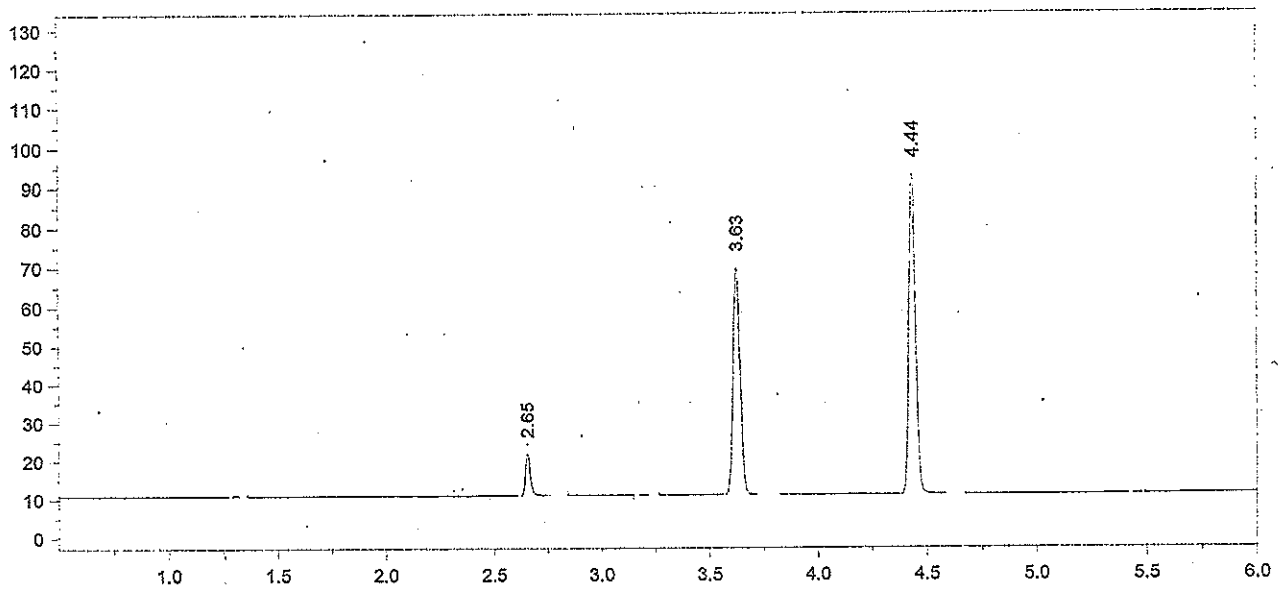


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p.7

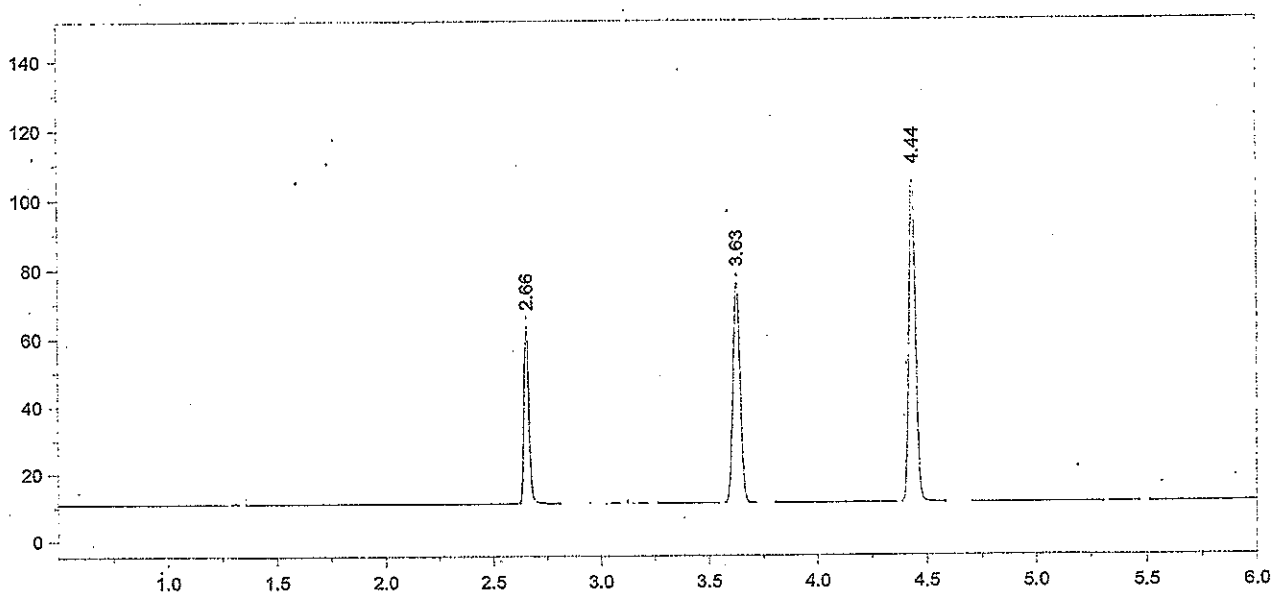


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 e.8

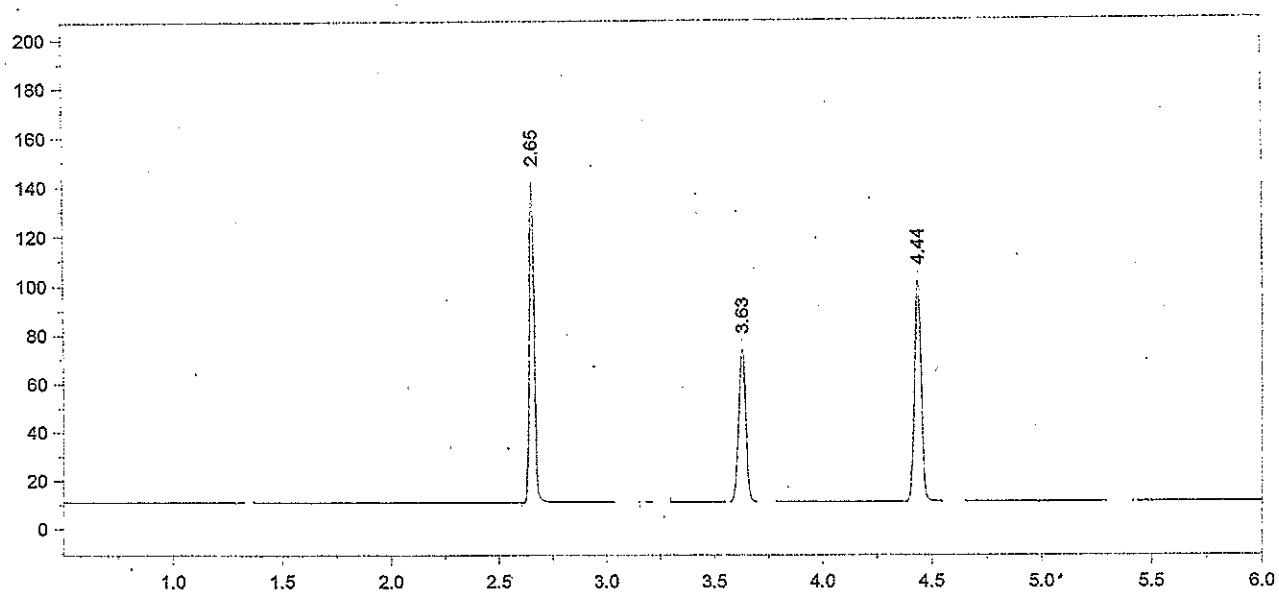


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15
15-10-400 p.9



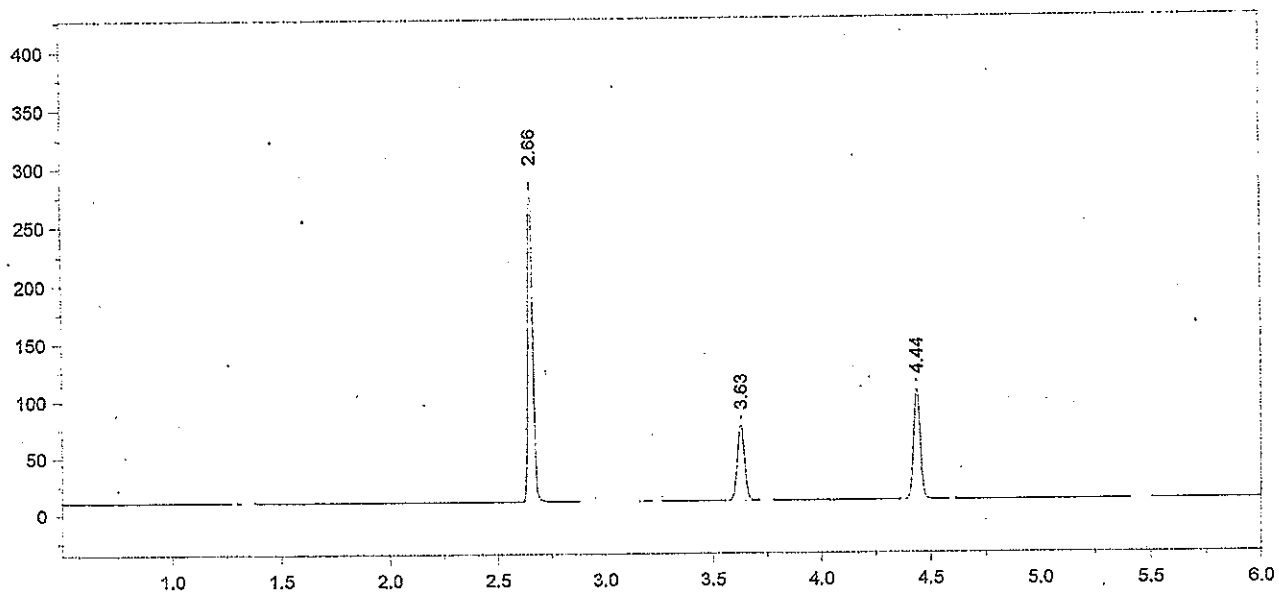
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15

15-10-400 8.10



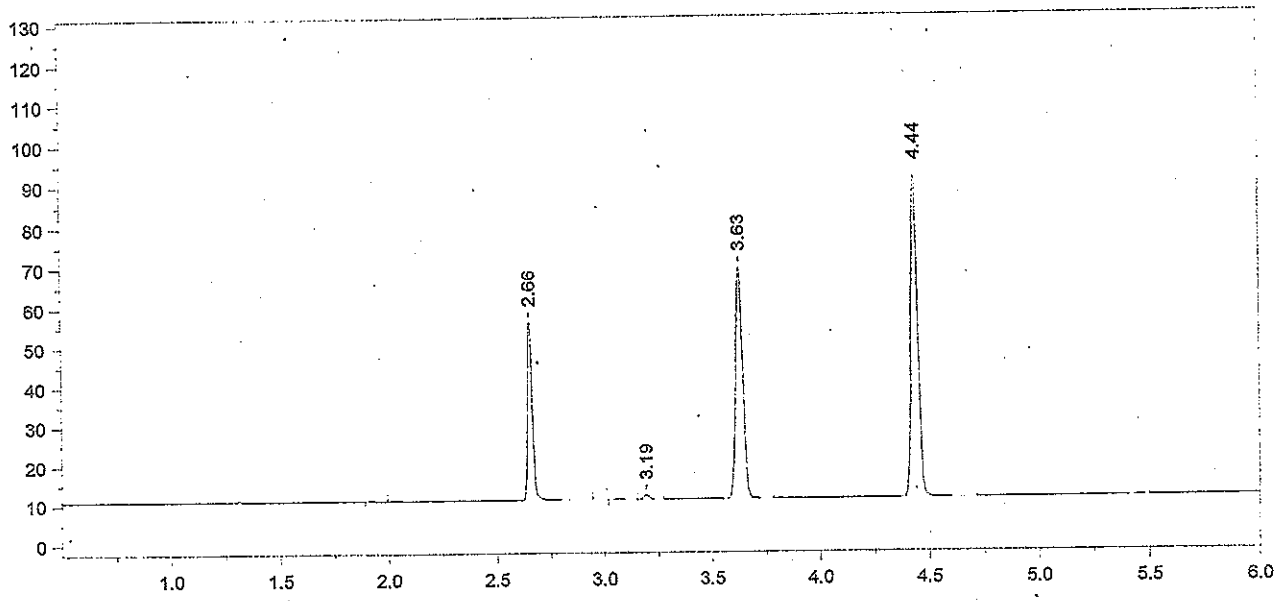
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15

15-10-400 p. 11



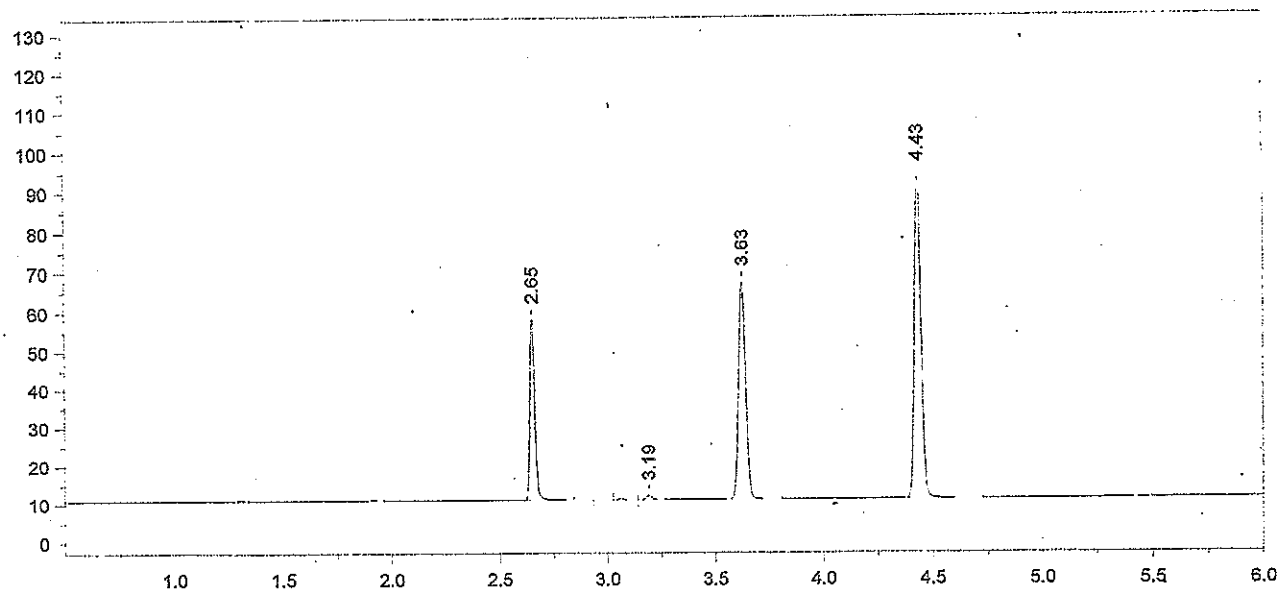
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15

15-10-400 p.12



Format File Name = AlcoholVFL.FMT

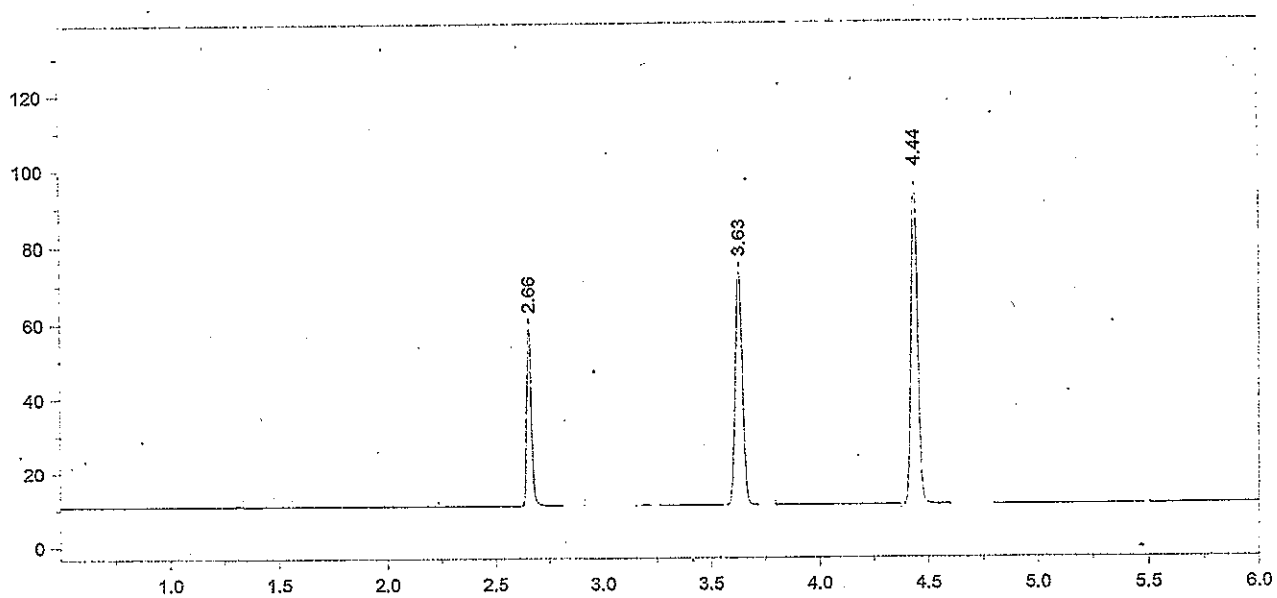
Today's Date = 6/25/2015
Today's Time = 5:50:13 PM
Bound File Name = VFL06252015.0009.RAW
Sample Name = WB
Date Taken = 6/25/2015 5:50:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

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

Lot #
Cliniqa 1212090
TV = 0.080
AB 7/8/15

AB 7/10/15
15-10-400 p.13

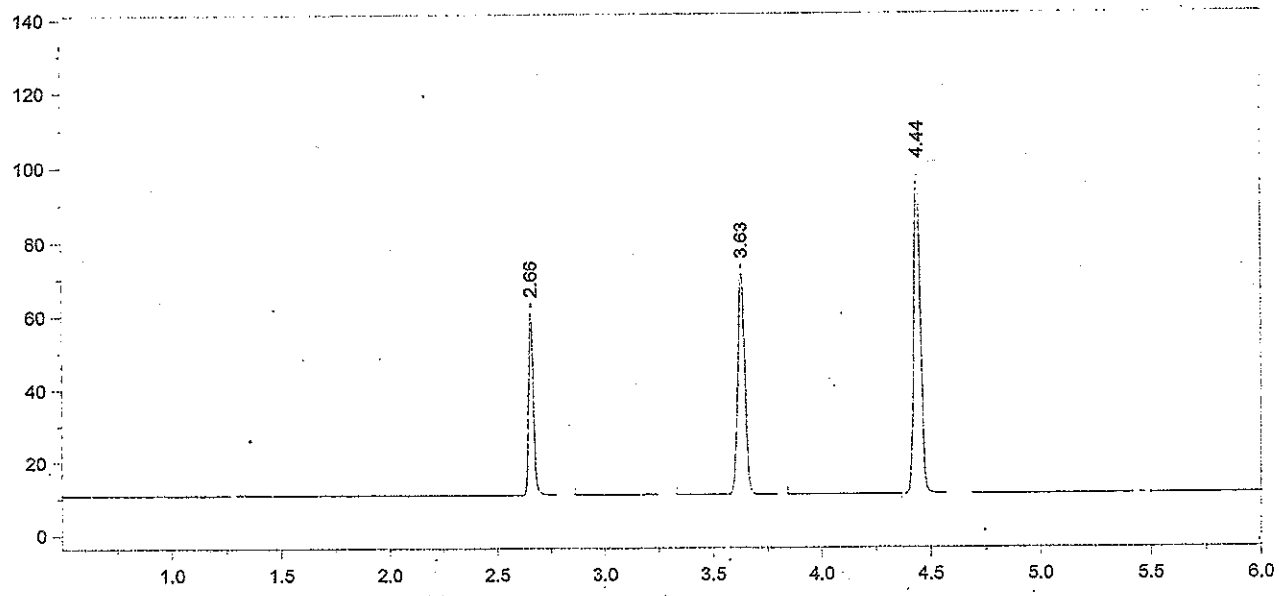


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p.14



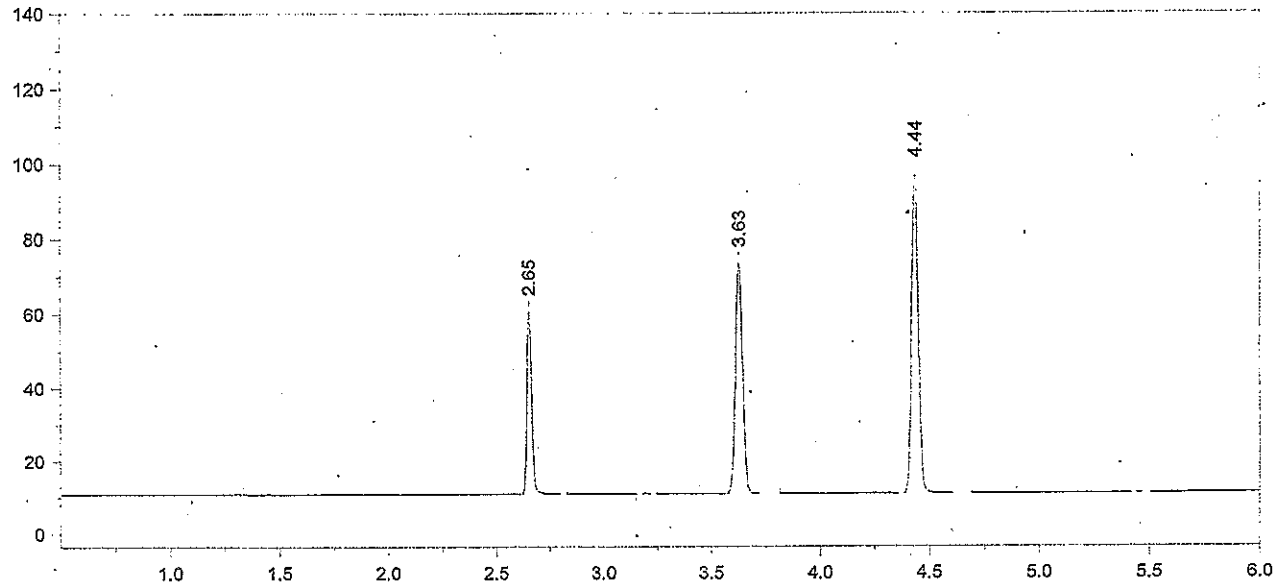
Format File Name = AlcoholVFL.FMT

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 vals 10 + 11 = 0.0791
±5% range = 0.0751 - 0.0830
recovery = 98.7%
AB 6/26/15

AB 7/10/15
15-10-400 p. 15

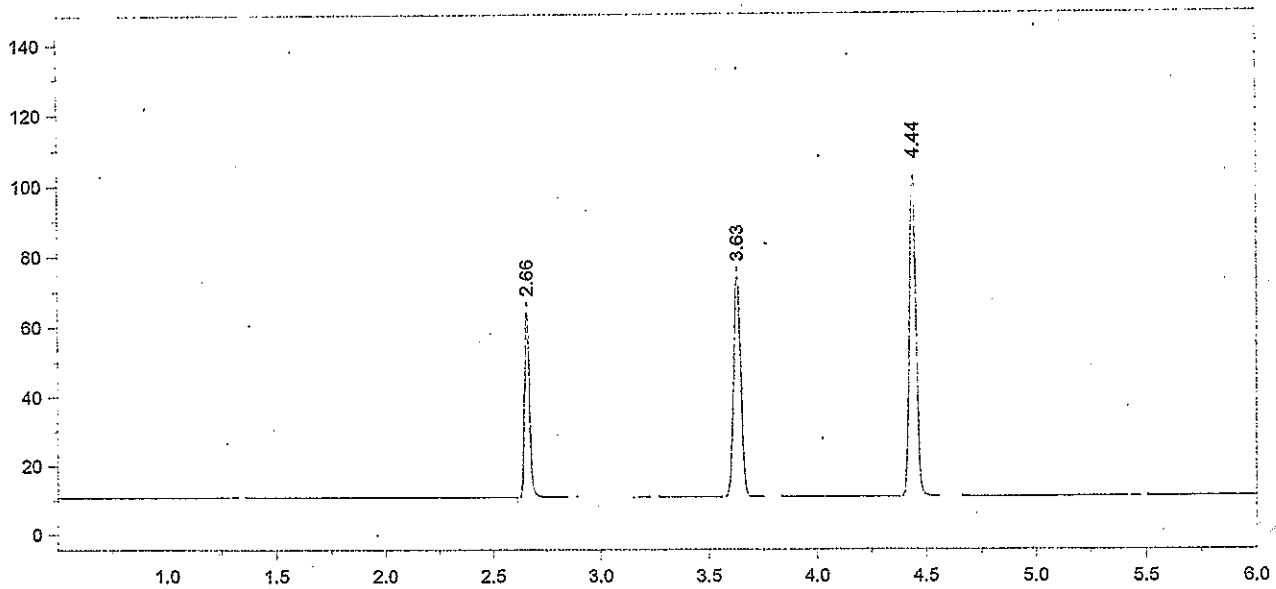


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15
15-10-400 0.16



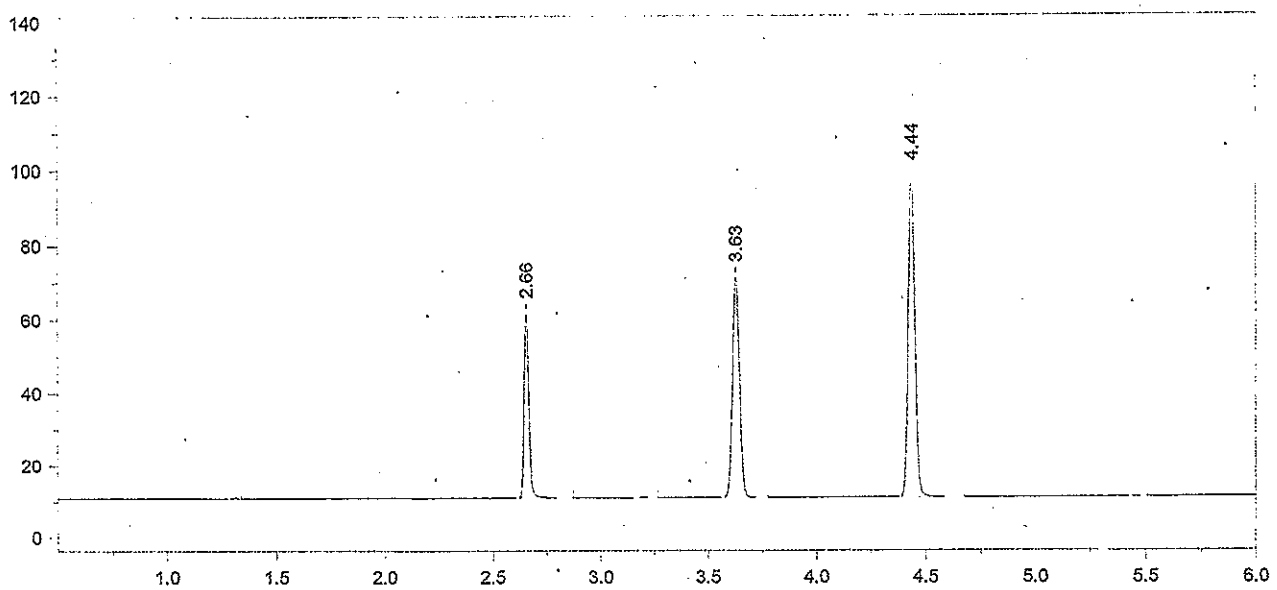
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p.17

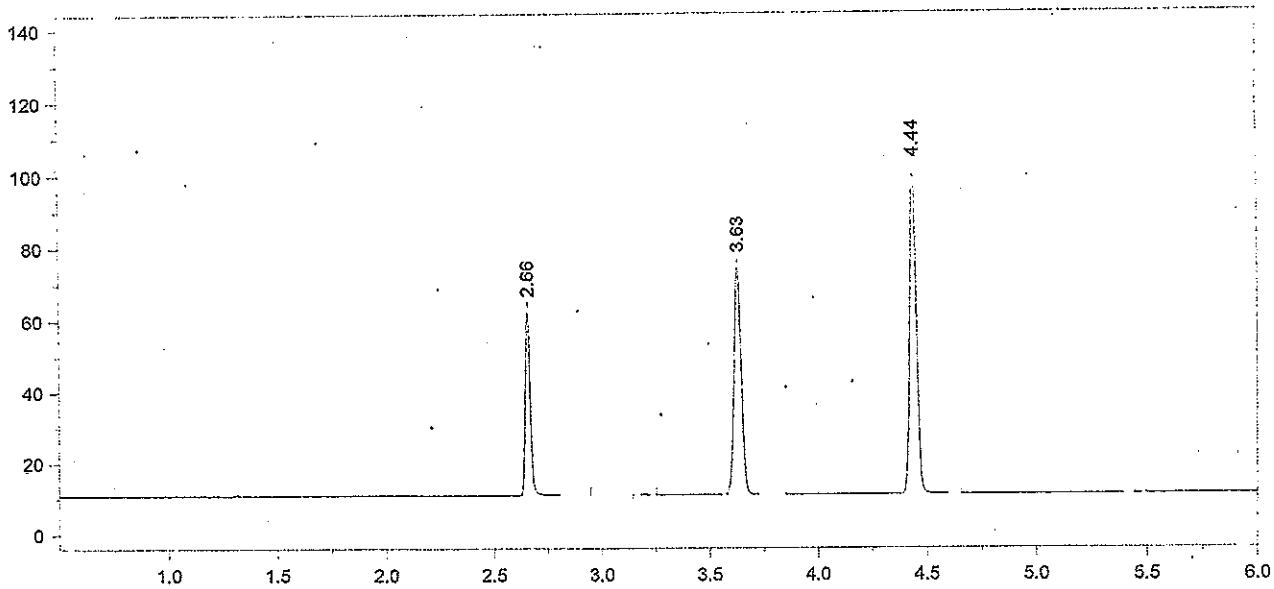


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 1.18



Format File Name = AlcoholVFL.FMT

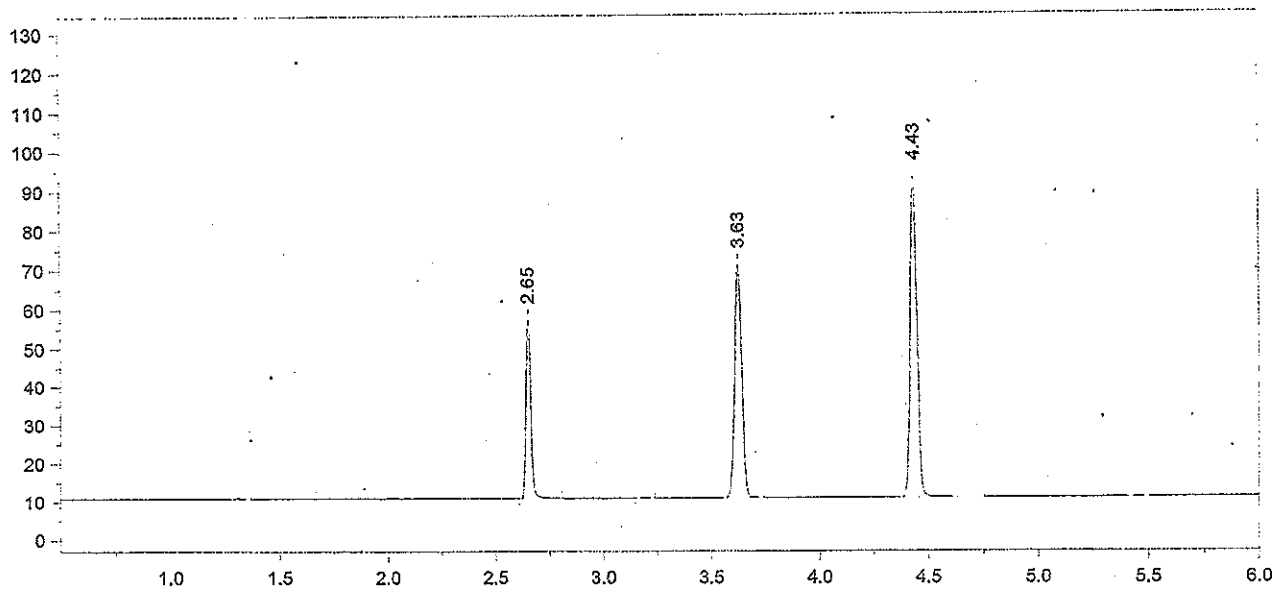
Today's Date = 6/25/2015
Today's Time = 9:43:55 PM
Bound File Name = VFL06252015.0024.RAW
Sample Name = CCS
Date Taken = 6/25/2015 9:43:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

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

AB 7/10/15 15-10-400 p.19

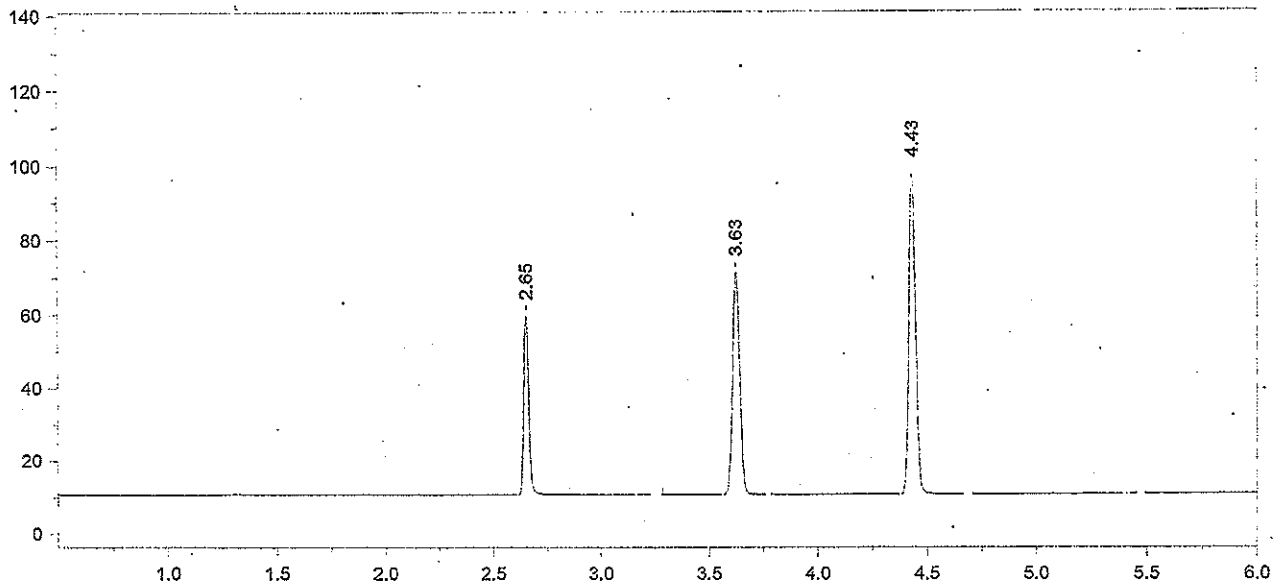


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p.20



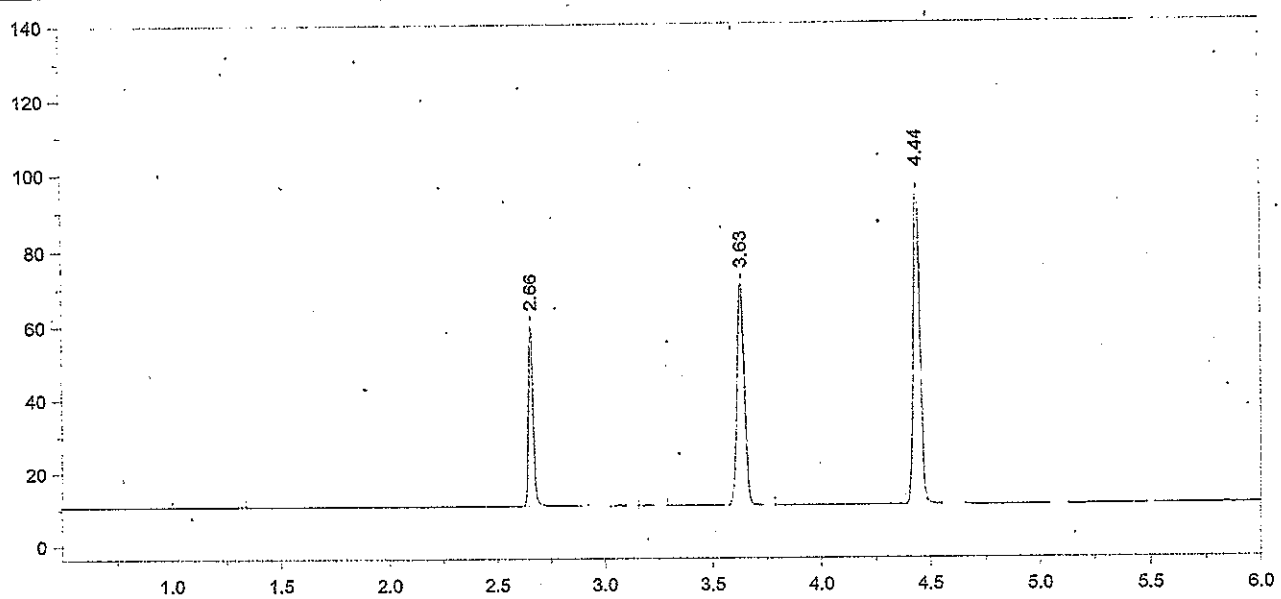
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p.21



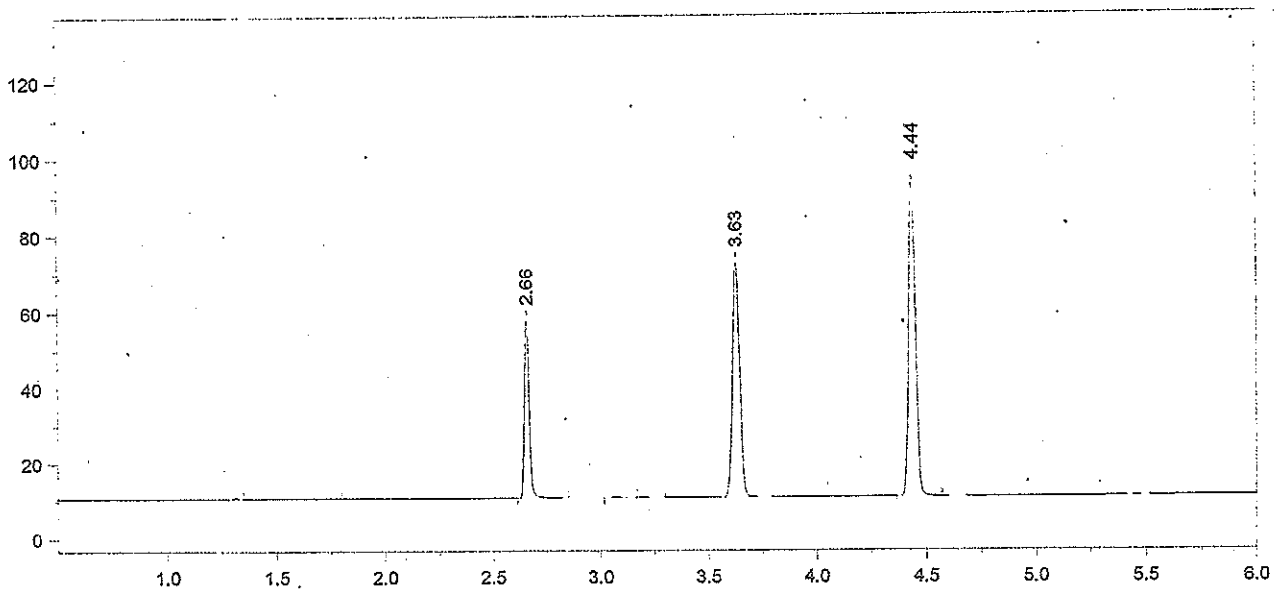
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15

15-10-400 p. 22



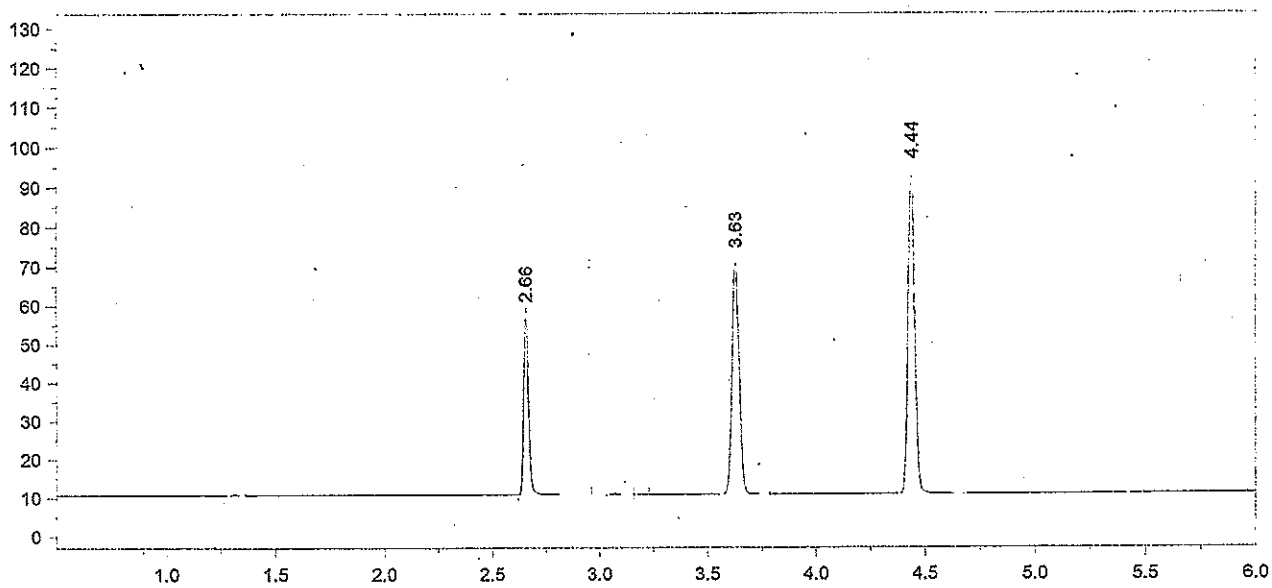
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 p. 23

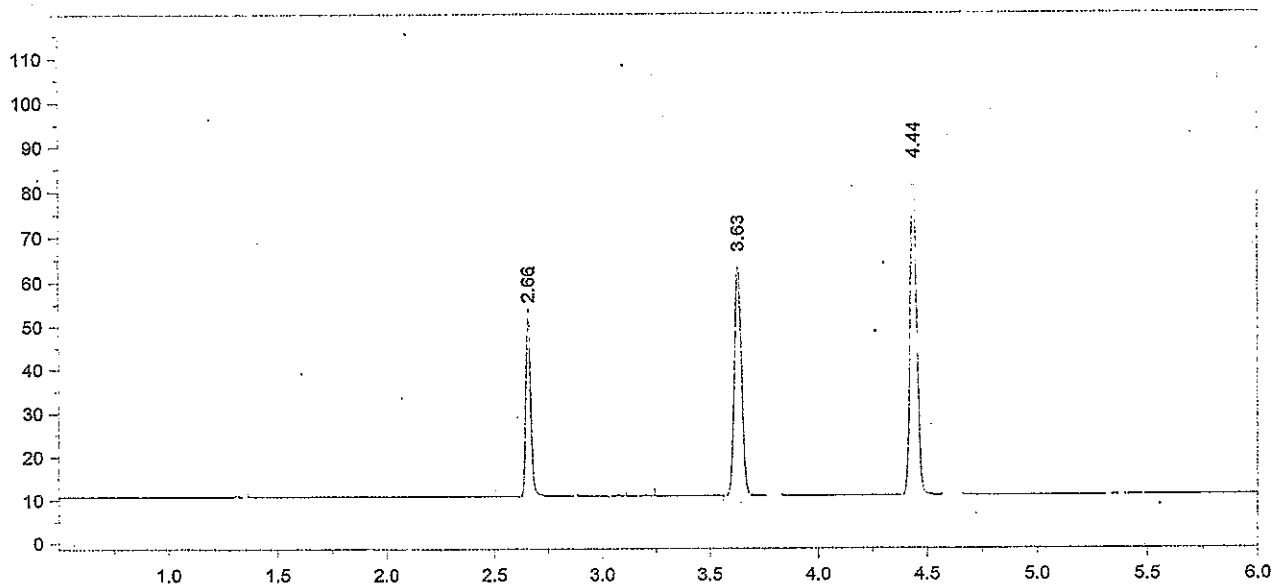


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-60-400 0.24



Format File Name = AlcoholVFL.FMT

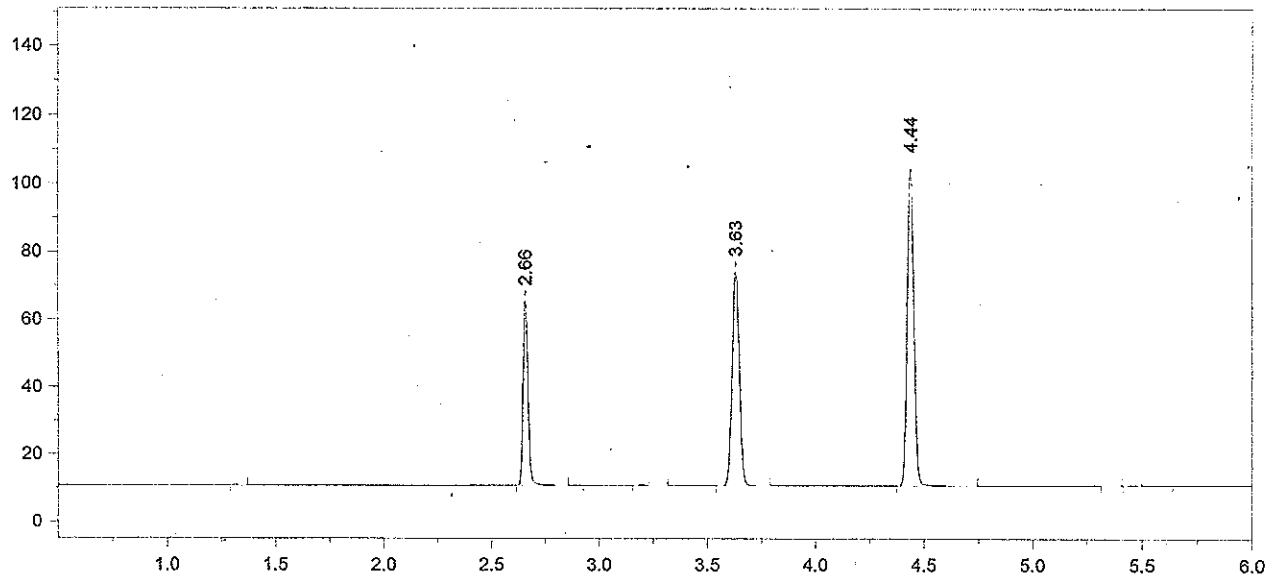
Today's Date = 6/26/2015
Today's Time = 4:44:07 AM
Bound File Name = VFL06252015.0051.RAW
Sample Name = CCS
Date Taken = 6/26/2015 4:43:59 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252015.CAL
Calibration Version = 7

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

AB 7/10/15 15-10-400 p. 25

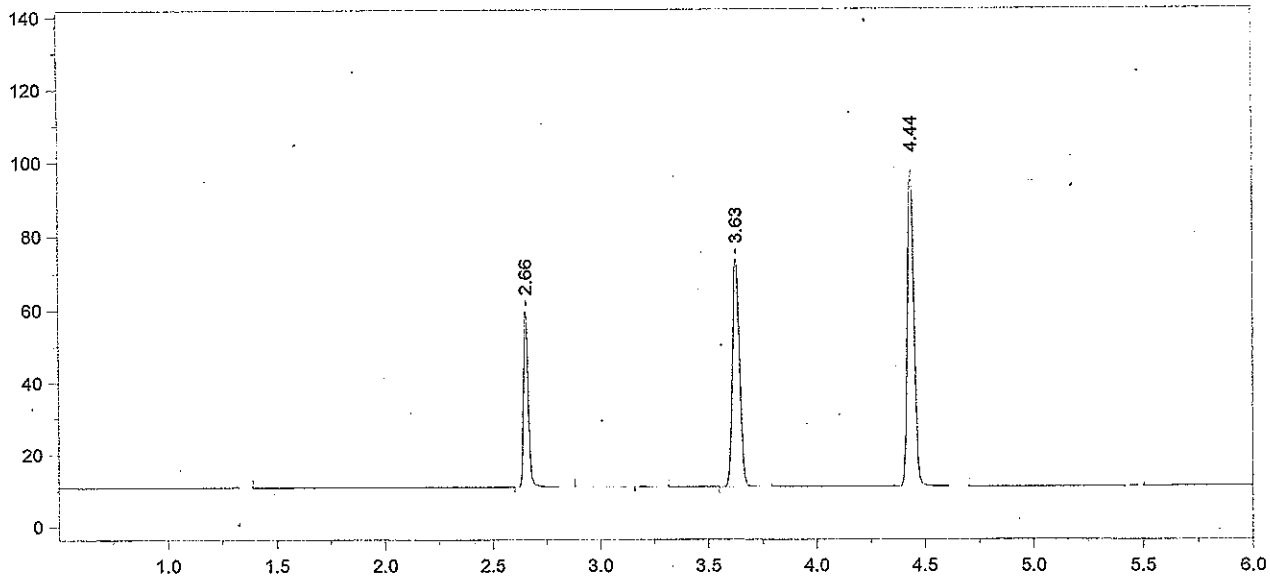


Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 ~~0.62~~ 0.26 7/8/15



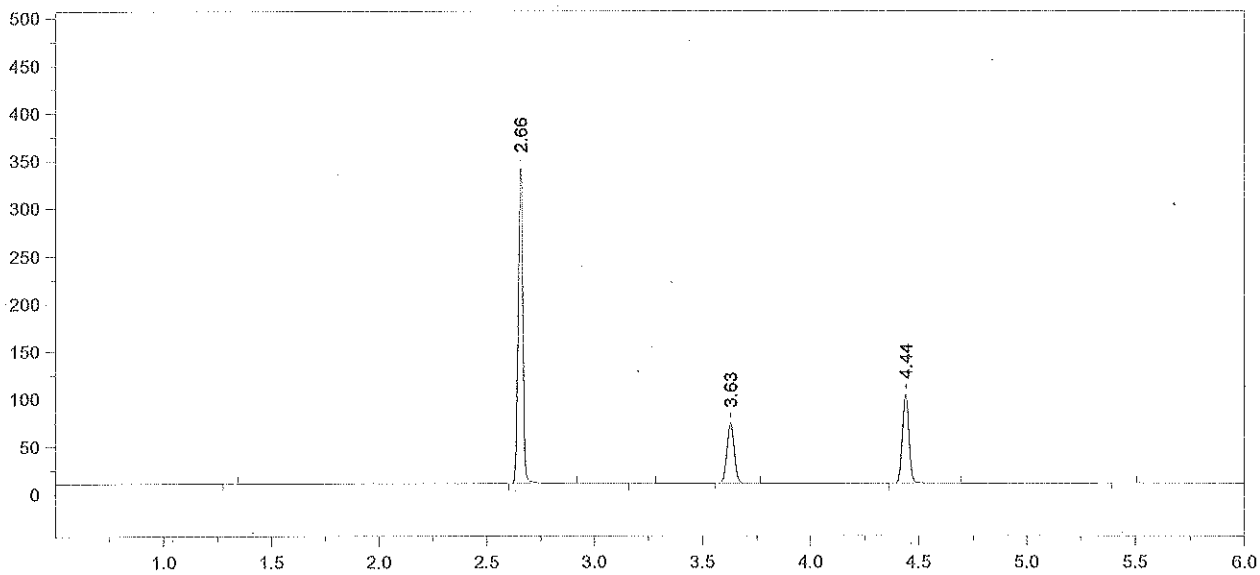
Format File Name = AlcoholVFL.FMT

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%

AB 7/10/15 15-10-400 p. 22

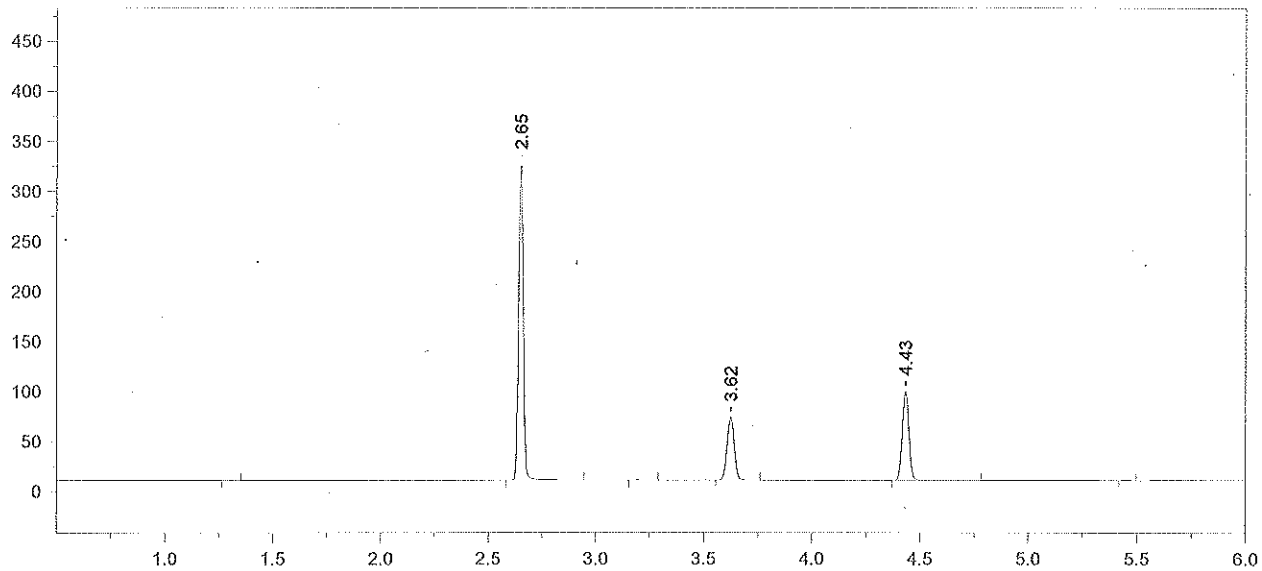


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015 Today's Time = 9:36:58 AM
Bound File Name = VFL06252015.0054.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 9:36:51 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	511411	0.4947	0.4038
4	3.63	t-Butanol	146601	0.9755	0.7962
5	4.44	n-Propanol	197596	1.0000	0.8162

AB 7/10/15 15-10-400 p. 28

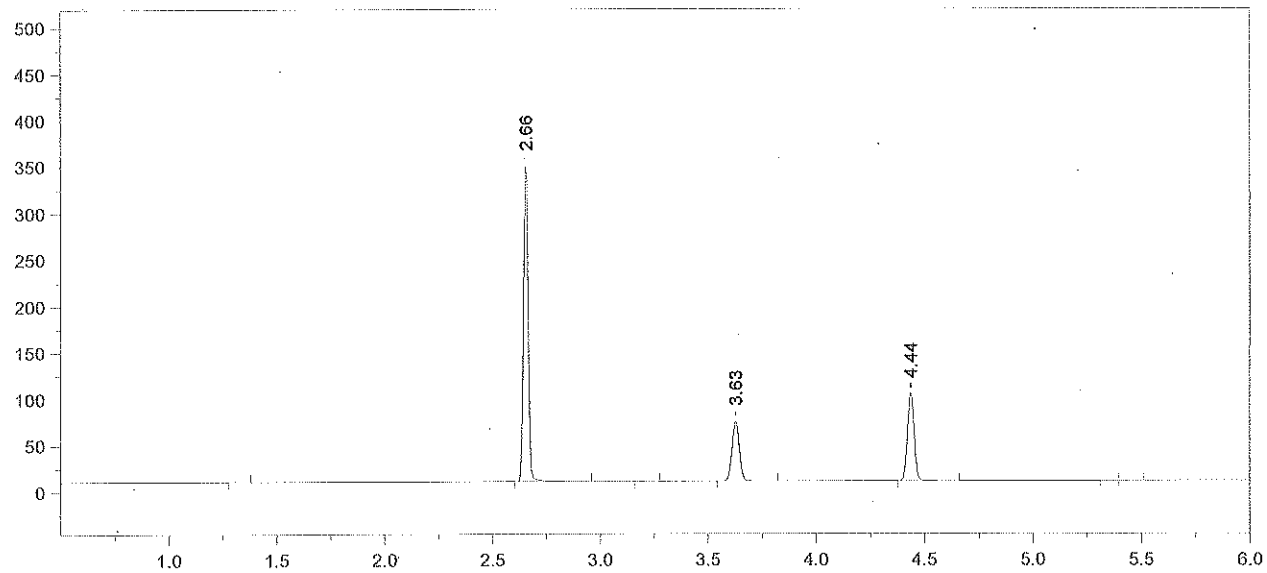


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015 Today's Time = 9:55:01 AM
Bound File Name = VFL06252015.0055.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 9:54:57 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	484032	0.4899	0.3999
4	3.62	t-Butanol	146631	1.0209	0.8332
5	4.43	n-Propanol	188856	1.0000	0.8162

AB 7/10/15 15-10-400 p. 29

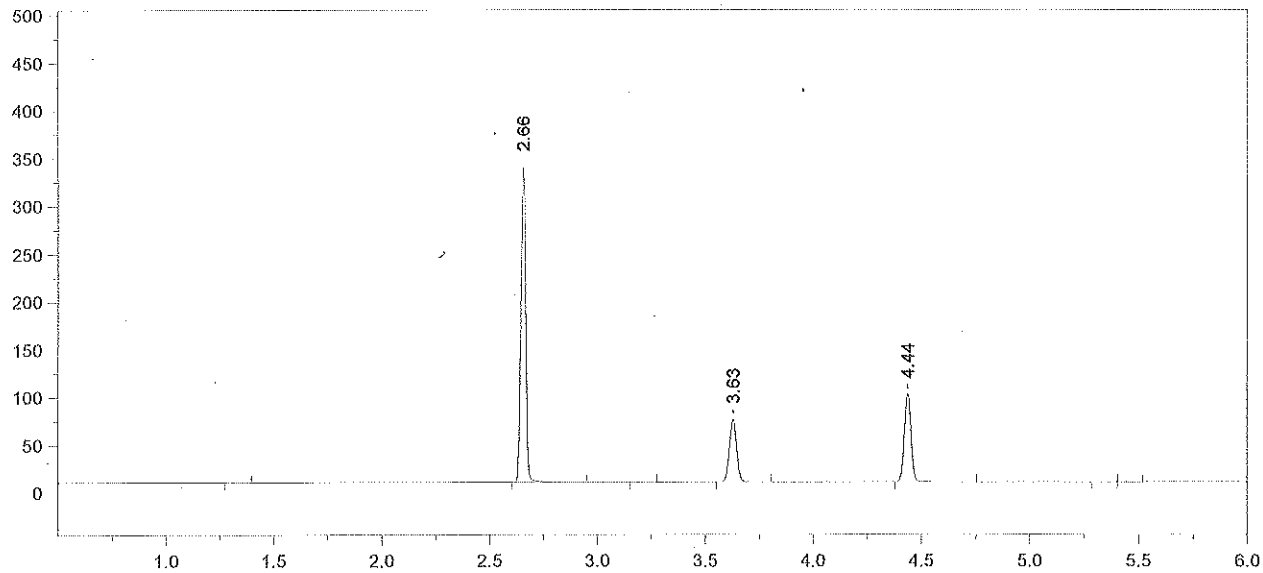


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 10:09:02 AM
Bound File Name = VFL06252015.0056.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 10:08:53 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	2.66	Ethanol	520239	0.4969	0.4056
4	3.63	t-Butanol	148849	0.9780	0.7982
5	4.44	n-Propanol	200121	1.0000	0.8162

AB 7/10/15
15-10-400
P. 80

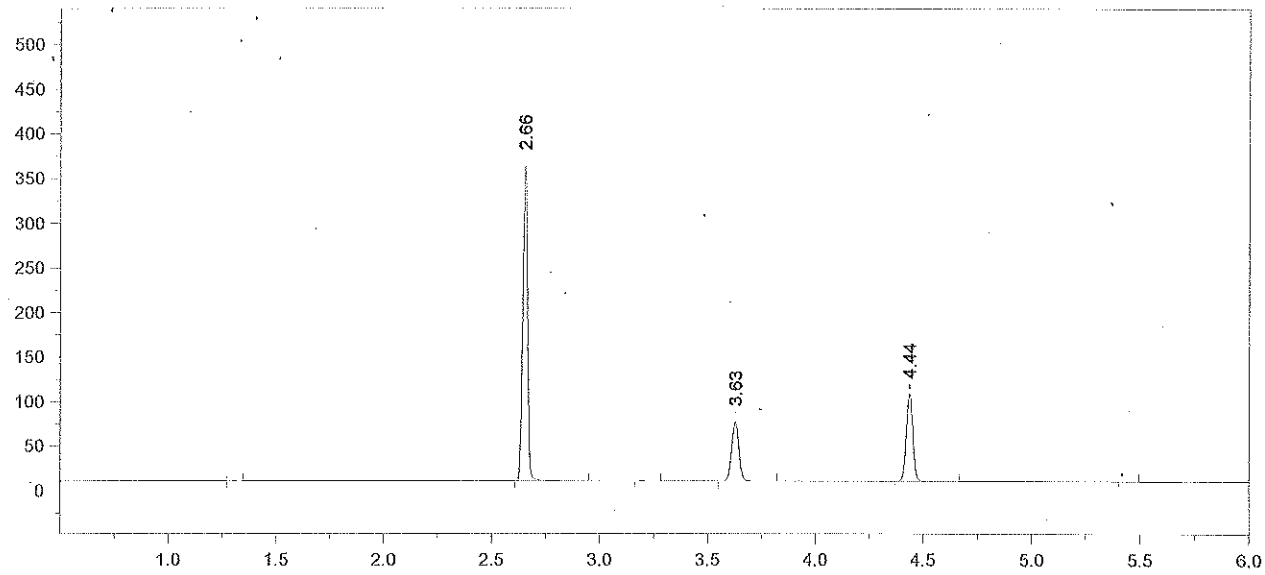


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 10:26:24 AM
Bound File Name = VFL06252015.0057.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 10:26:19 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	504602	0.4923	0.4018
4	3.63	t-Butanol	151098	1.0141	0.8277
5	4.44	n-Propanol	195911	1.0000	0.8162

AB 7/10/15
15-10-400 P. 31

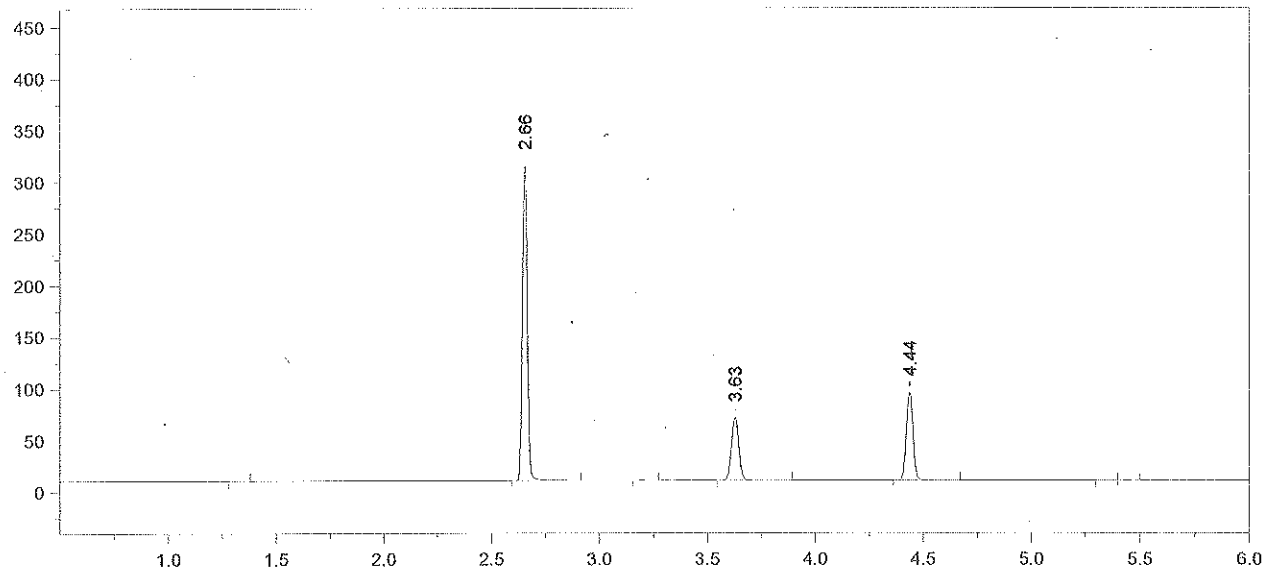


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015 Today's Time = 10:41:23 AM
Bound File Name = VFL06252015.0058.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 10:41:15 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	540526	0.4971	0.4057
4	3.63	t-Butanol	153379	0.9703	0.7920
5	4.44	n-Propanol	207847	1.0000	0.8162

AB 7/10/15 15-10-400 p.32

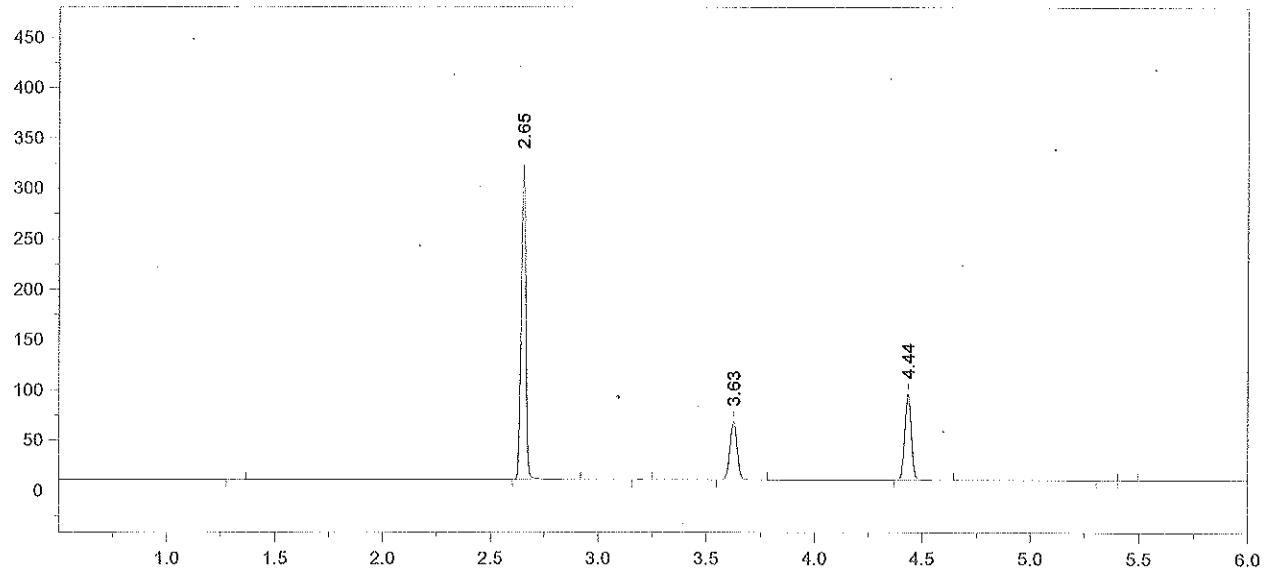


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 10:57:51 AM
Bound File Name = VFL06252015.0059.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 10:57:46 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	466876	0.4919	0.4015
4	3.63	t-Butanol	141294	1.0241	0.8359
5	4.44	n-Propanol	181410	1.0000	0.8162

7/10/15
15-6-2400 P-33



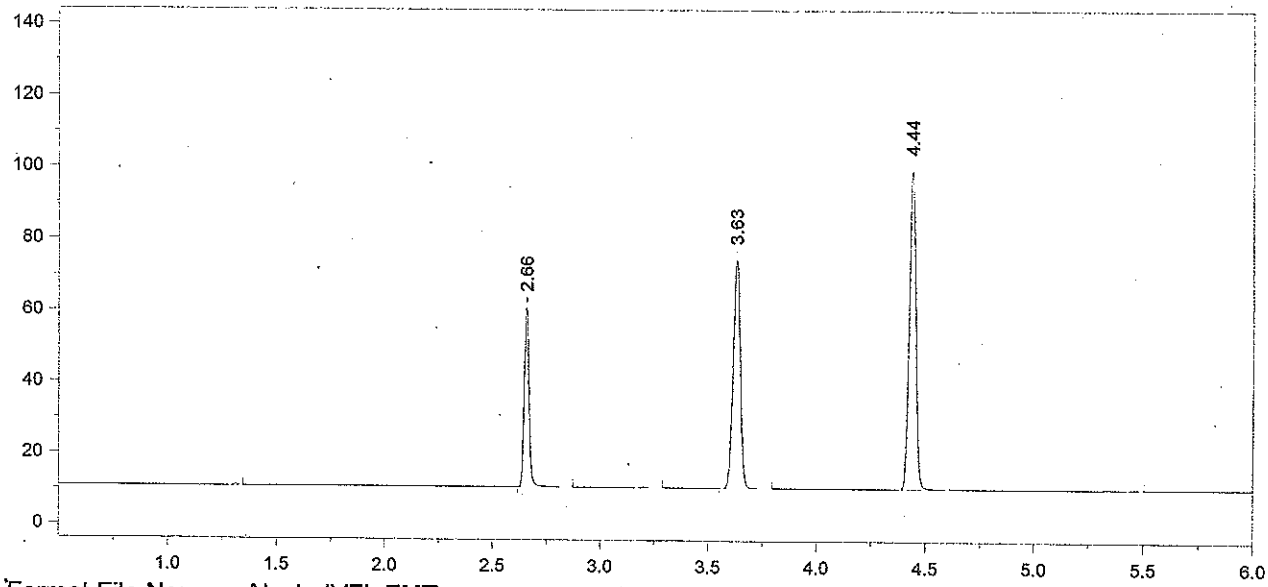
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 11:12:44 AM
Bound File Name = VFL06252015.0060.RAW
Sample Name = .04 DP
Date Taken = 6/26/2015 11:12:39 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	479243	0.5041	0.4114
4	3.63	t-Butanol	133204	0.9638	0.7867
5	4.44	n-Propanol	181724	1.0000	0.8162

7/10/15

15-10-400 p.34



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

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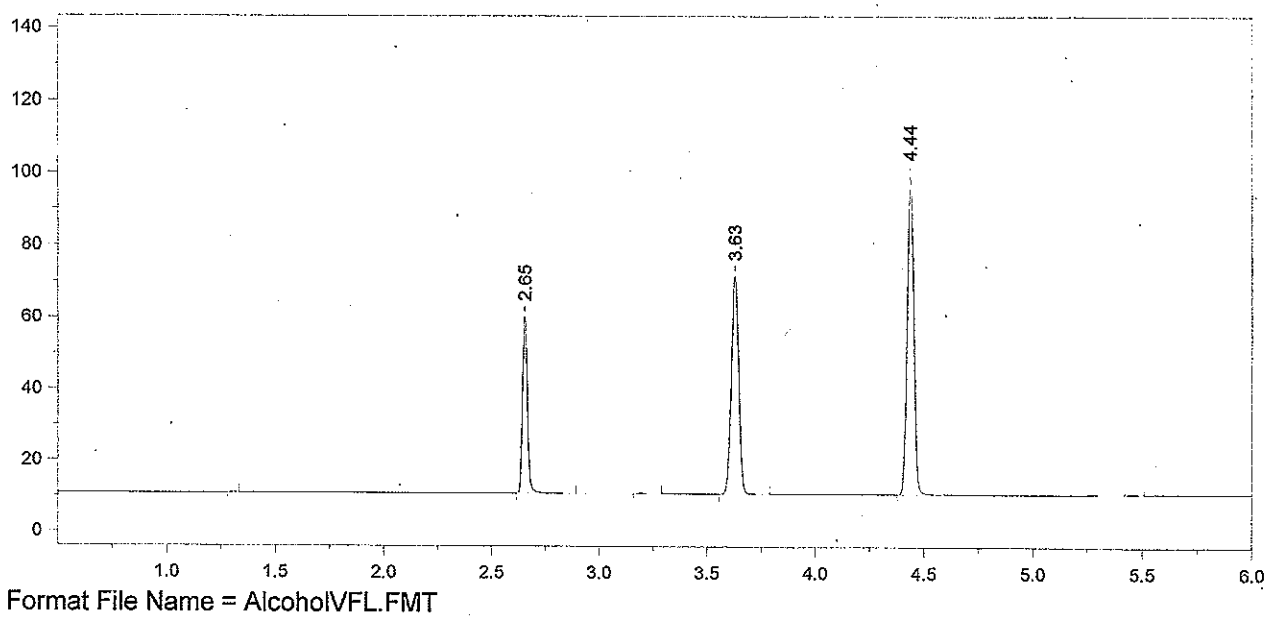


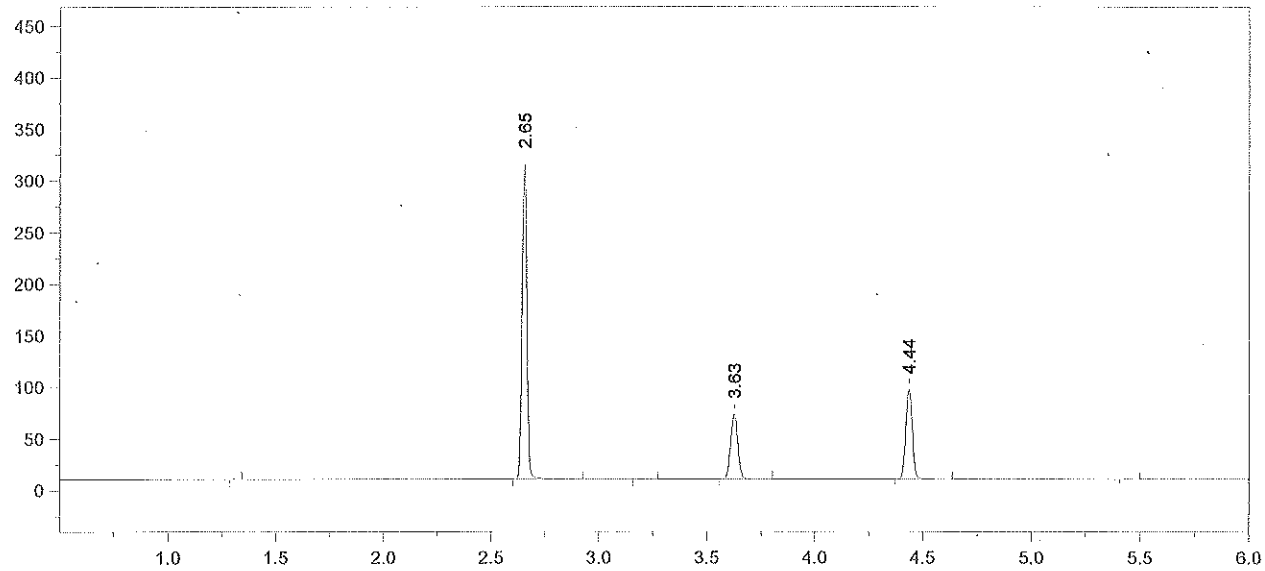
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15
15-10-400 p.36

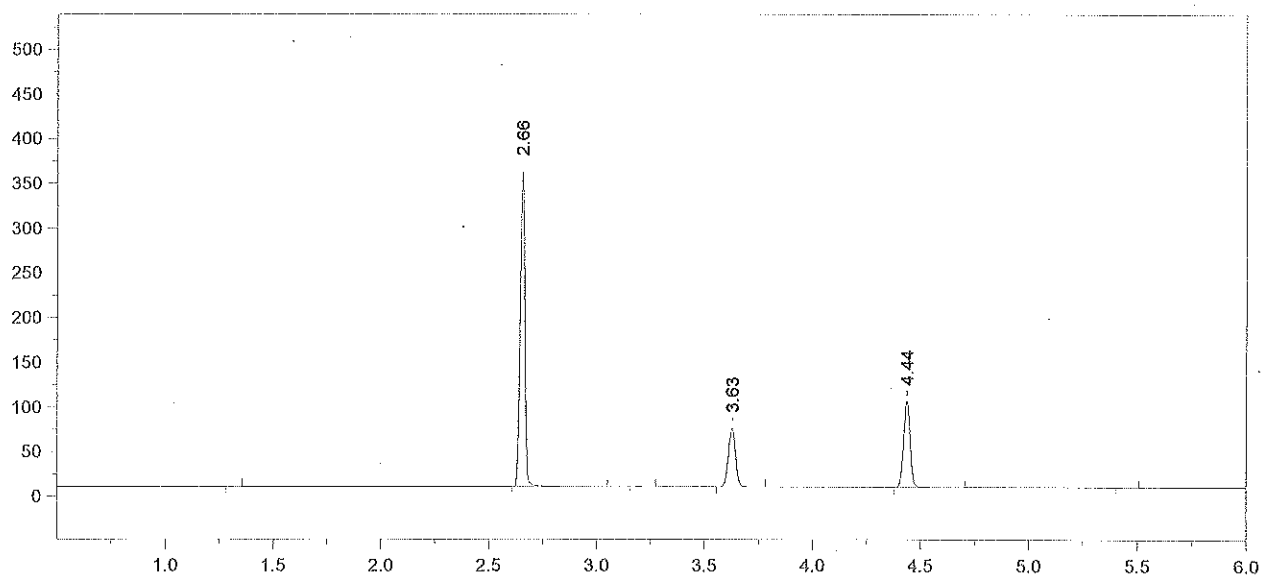


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 12:00:38 PM
Bound File Name = VFL06252015.0063.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 12:00:34 PM
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	471722	0.4881	0.3984
4	3.63	t-Butanol	145050	1.0325	0.8427
5	4.44	n-Propanol	184715	1.0000	0.8162

AB 7/10/15 15-10-400 037



Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015 Today's Time = 12:15:37 PM
Bound File Name = VFL06252015.0064.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 12:15:27 PM 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	539816	0.5054	0.4125
4	3.63	t-Butanol	151459	0.9754	0.7961
5	4.44	n-Propanol	204166	1.0000	0.8162

AB 7/10/15 15-10-400 p. 38

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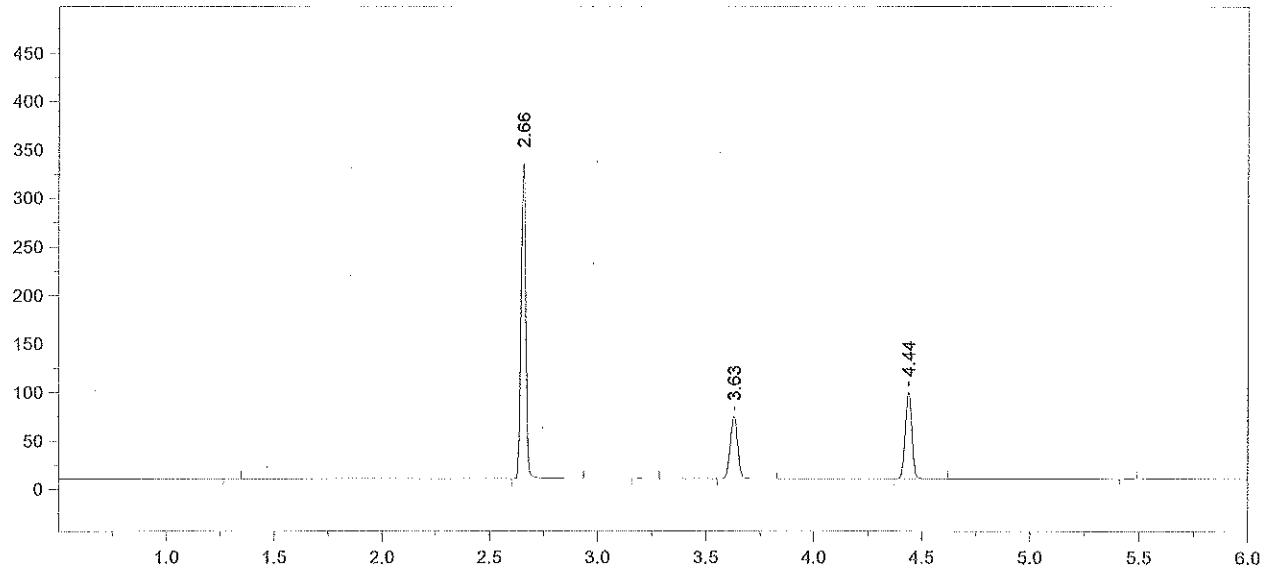
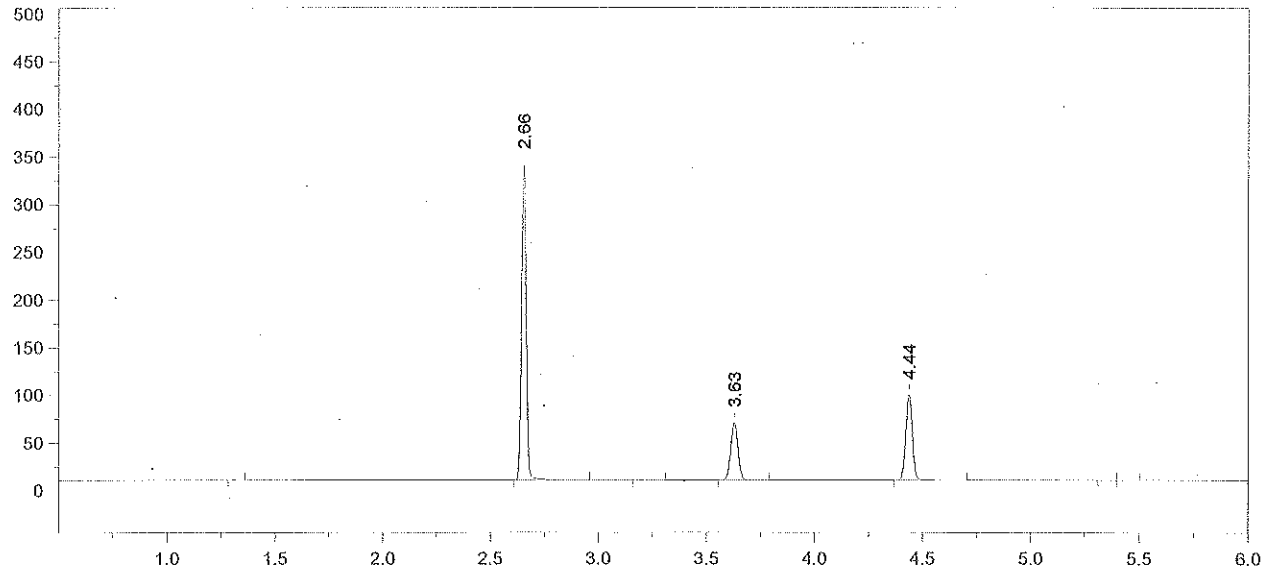


Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015 Today's Time = 12:32:08 PM
Bound File Name = VFL06252015.0065.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 12:31:59 PM 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	495967	0.4990	0.4073
4	3.63	t-Butanol	148310	1.0265	0.8378
5	4.44	n-Propanol	189974	1.0000	0.8162

AB 7/9/15 15-10-400 p.39



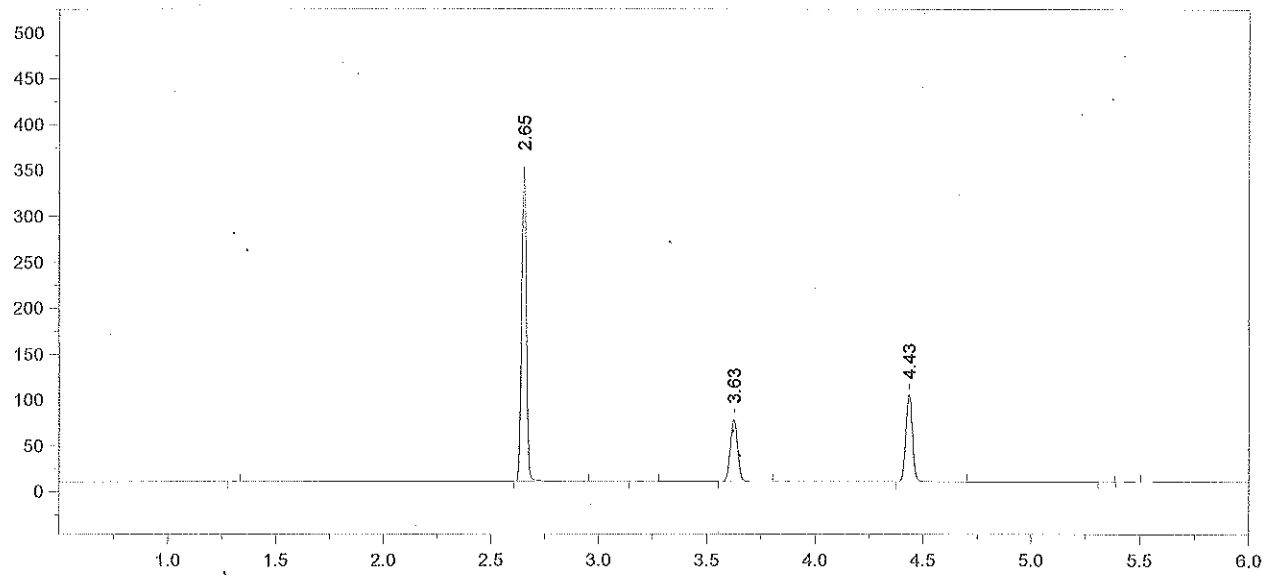
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015 Today's Time = 12:46:14 PM
Bound File Name = VFL06252015.0066.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 12:46:07 PM 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	505276	0.5081	0.4147
4	3.63	t-Butanol	138341	0.9570	0.7811
5	4.44	n-Propanol	190069	1.0000	0.8162

AB 7/10/15

15-10-400 p40



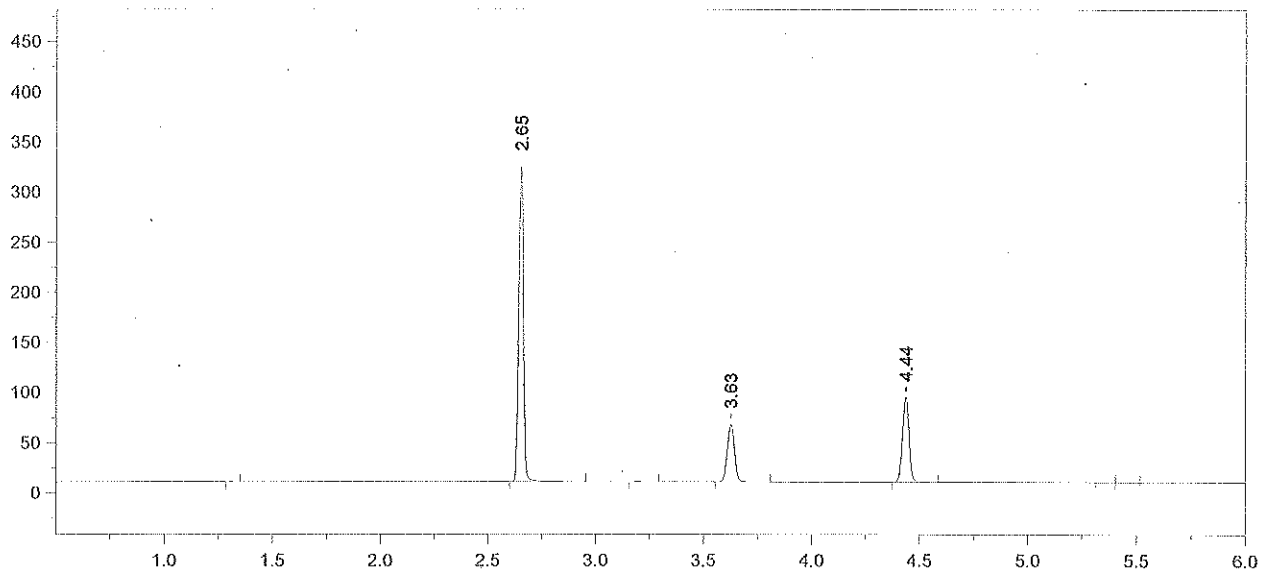
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:03:31 PM
Bound File Name = VFL06252015.0067.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 1:03:23 PM
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	527462	0.4962	0.4050
4	3.63	t-Butanol	157214	1.0174	0.8304
5	4.43	n-Propanol	203184	1.0000	0.8162

AB 7/10/15

15-10-400 p 41



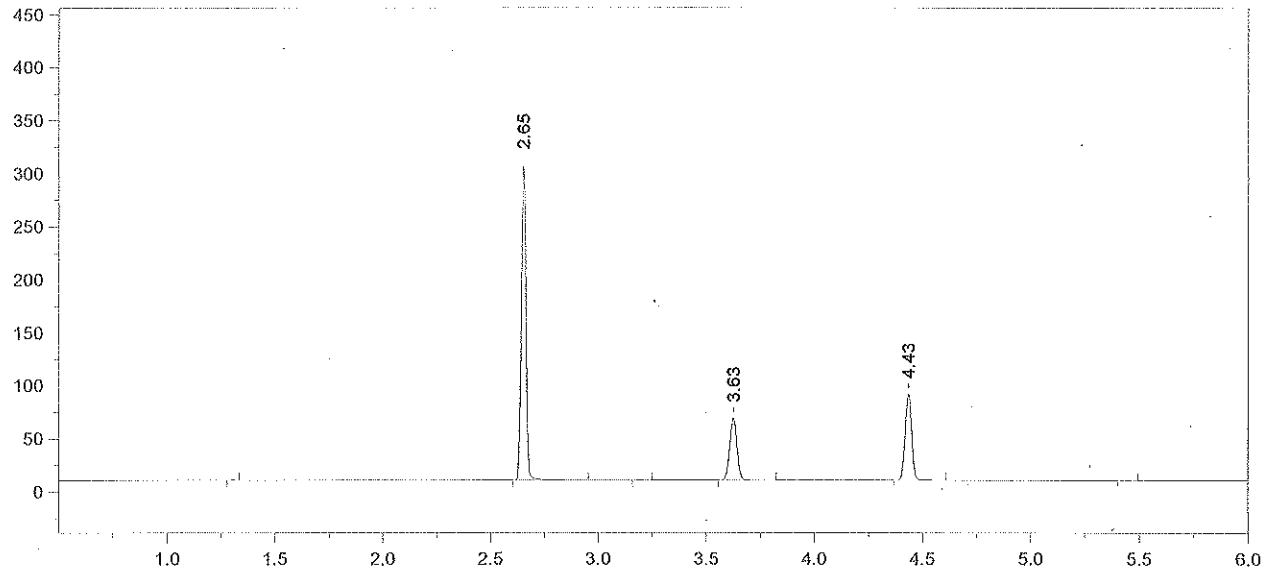
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:18:24 PM
Bound File Name = VFL06252015.0068.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 1:18:16 PM
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	483731	0.5128	0.4185
4	3.63	t-Butanol	132863	0.9688	0.7908
5	4.44	n-Propanol	180319	1.0000	0.8162

AB 7/10/15

15-40-400 p42



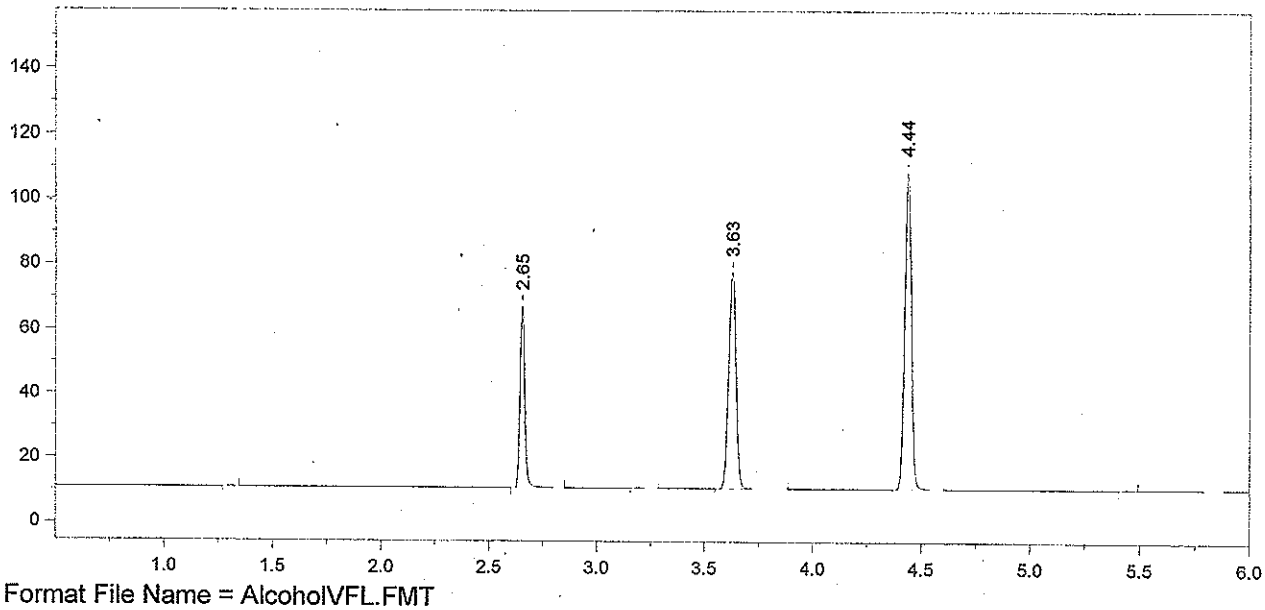
Format File Name = simsolnVFL.met.FMT

Today's Date = 6/26/2015
Today's Time = 1:34:51 PM
Bound File Name = VFL06252015.0069.RAW
Sample Name = .04 AB
Date Taken = 6/26/2015 1:34:45 PM
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	454654	0.5016	0.4094
4	3.63	t-Butanol	135488	1.0282	0.8392
5	4.43	n-Propanol	173257	1.0000	0.8162

AB 7/16/15

15-10-400 p43



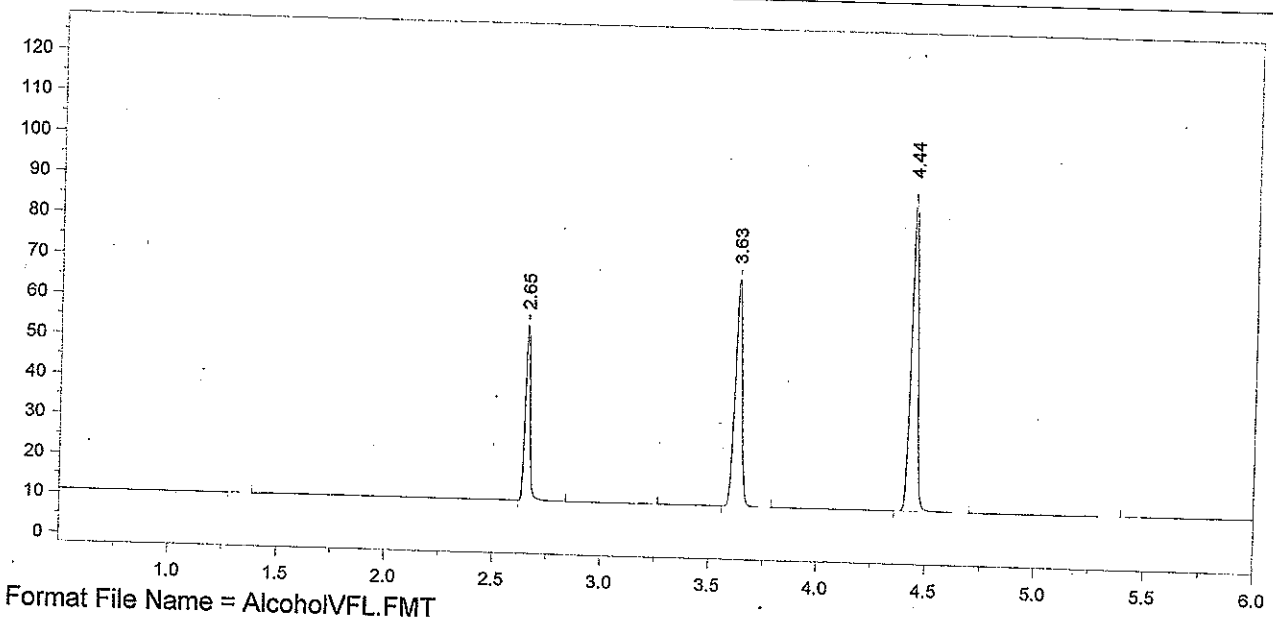
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15

15-10-400 044



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
Method file = Blood Alc temp VFL.MET
VFL Headspace Alcohol
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]

[illegible] 7/10/15

15-10-400 045

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

OTHER SAMPLES NOT INCLUDED 07/16/15

15-10-400

7/10/15 P.46

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

Run within 24h of original calibration 7/10/15

Run is defined as vial preparation, addition to sequence and added to the autosampler within 24 hrs of calibration. AB 7/10/15

15-10-400

AB 7/10/15

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

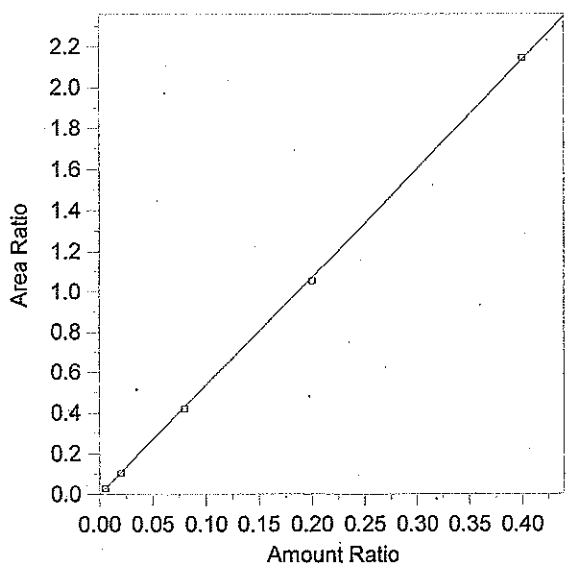
Creator:
Description:
Reason for change:

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

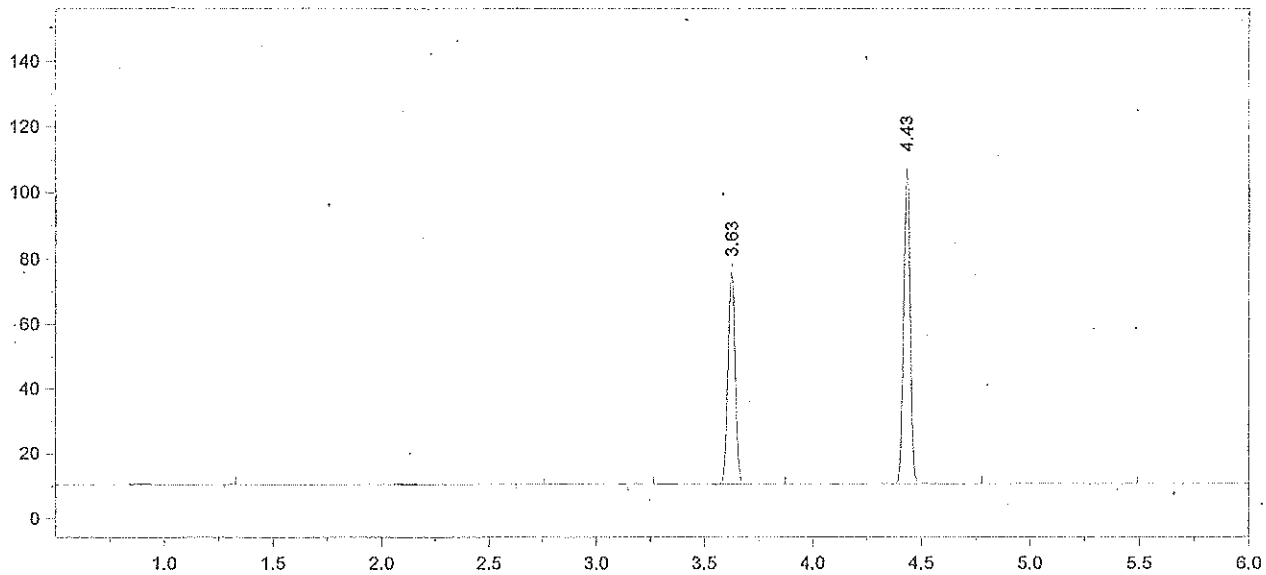
Coefficient of determination:	0.9998475
Average error:	2.360%
Average CF:	5.292365
RSD:	2.964%

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

17-10-400

AB 7/10/15

P 48



Format File Name = AlcoholVFL.FMT

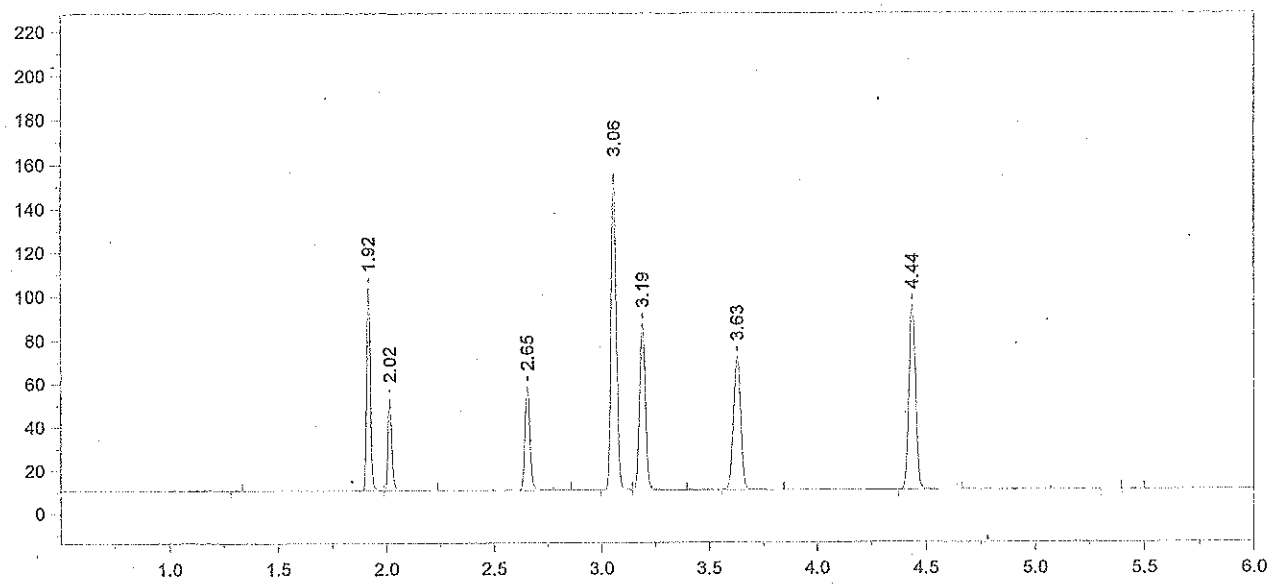
Today's Date = 7/9/2015
Today's Time = 7:43:42 AM
Bound File Name = VFL07082015.0001.RAW
Sample Name = BLANK
Date Taken = 7/8/2015 2:07:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

AB 7/10/15

p 49 86



Format File Name = AlcoholVFL.FMT

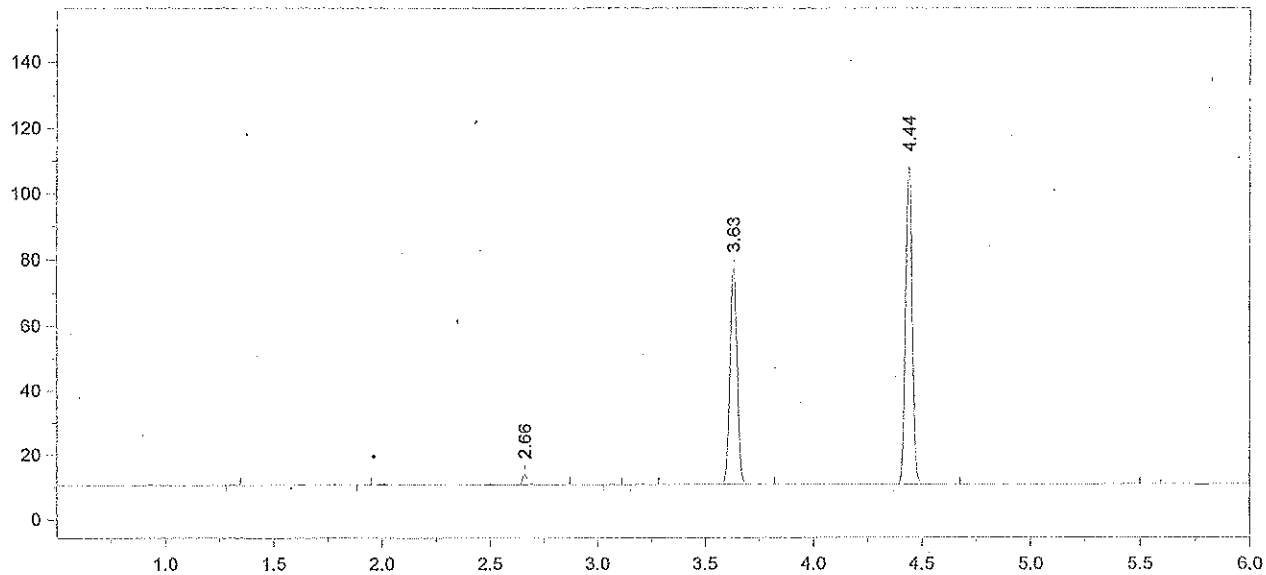
Today's Date = 7/9/2015
Today's Time = 7:43:48 AM
Bound File Name = VFL07082015.0002.RAW
Sample Name = TMX
Date Taken = 7/8/2015 2:24:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-60-400

AB 7/10/15

0 50



Format File Name = AlcoholVFL.FMT

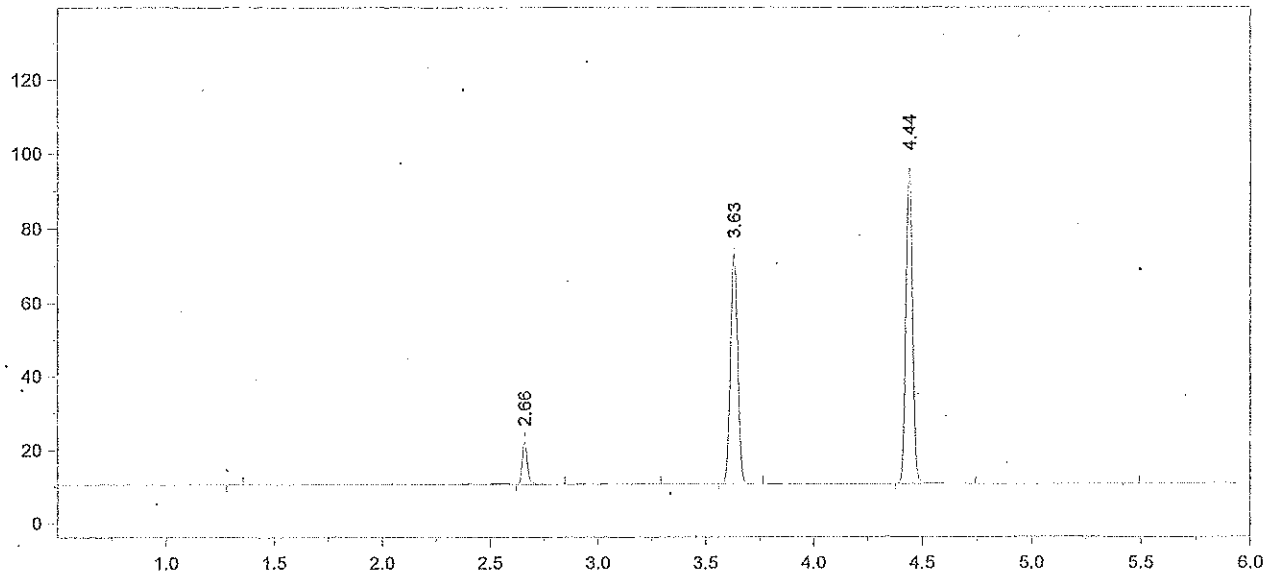
Today's Date = 7/9/2015
Today's Time = 7:43:54 AM
Bound File Name = VFL07082015.0003.RAW
Sample Name = STD A
Date Taken = 7/8/2015 2:38:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

AB 7/10/15

p51 DB



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

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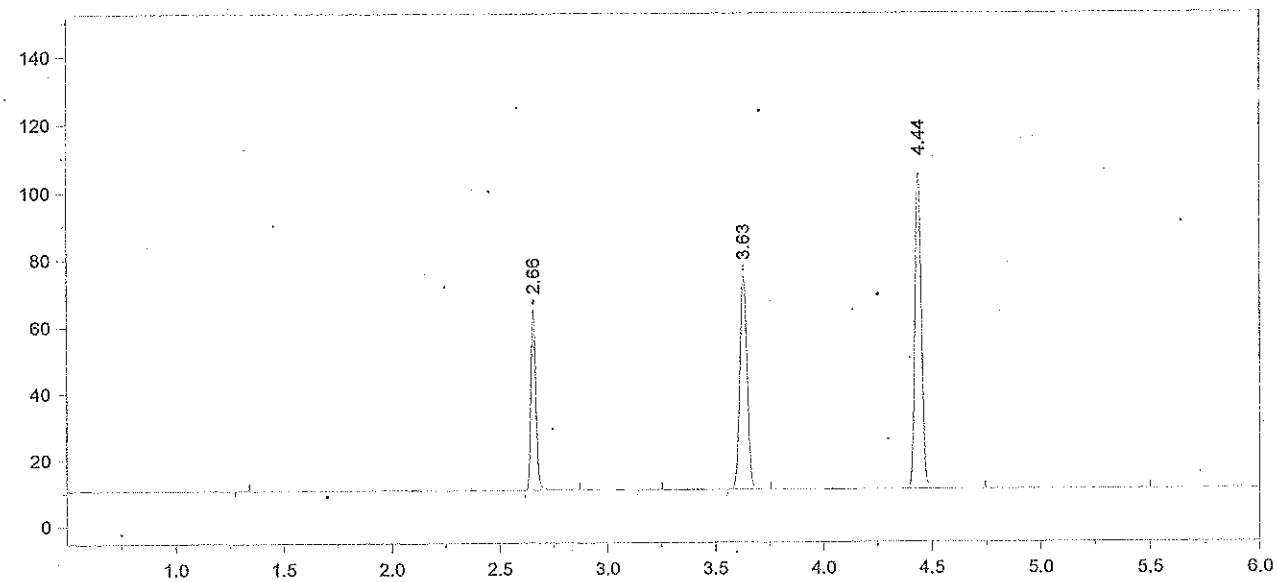
AS 7/10/15

e 52



Format File Name = AlcoholVFL.FMT

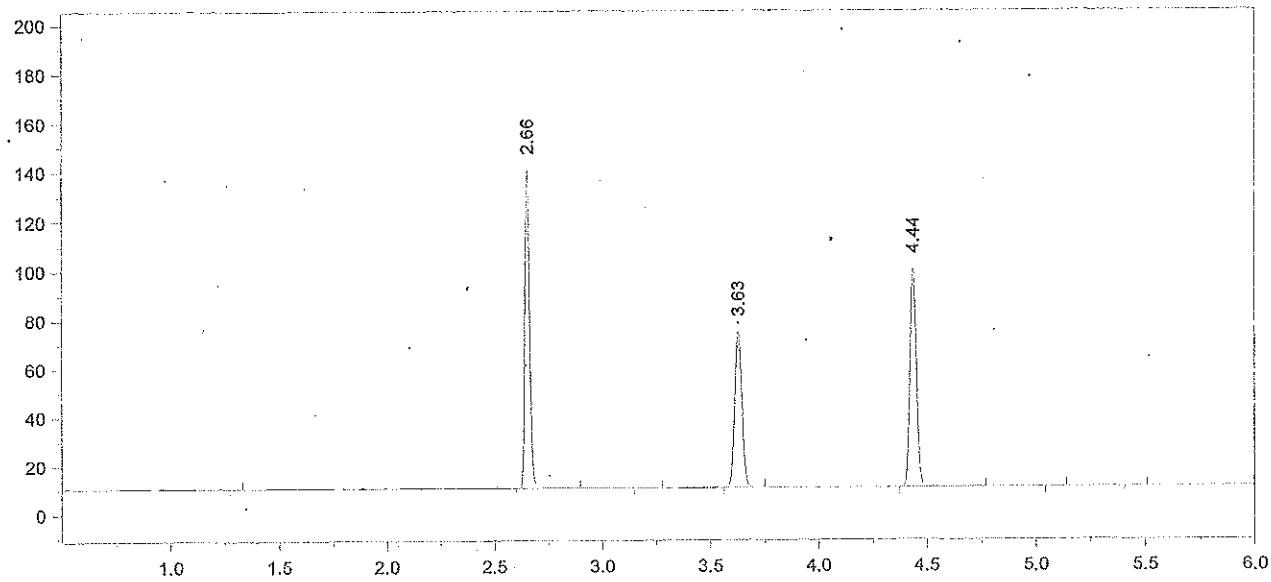
Today's Date = 7/9/2015
Today's Time = 7:44:05 AM
Bound File Name = VFL07082015.0005.RAW
Sample Name = STD C
Date Taken = 7/8/2015 3:10:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

7/10/15

15-10-400

p. 53



Format File Name = AlcoholVFL.FMT

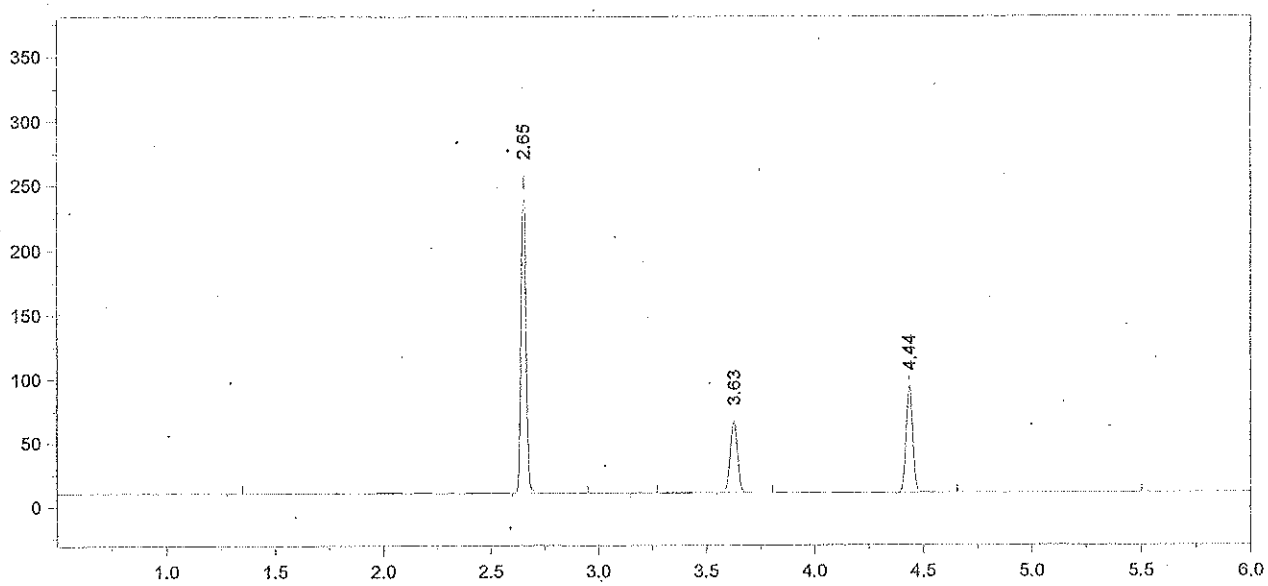
Today's Date = 7/9/2015
Today's Time = 7:44:12 AM
Bound File Name = VFL07082015.0006.RAW
Sample Name = STD D
Date Taken = 7/8/2015 3:26:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

AB 7/10/15

p.54 08



Format File Name = AlcoholVFL.FMT

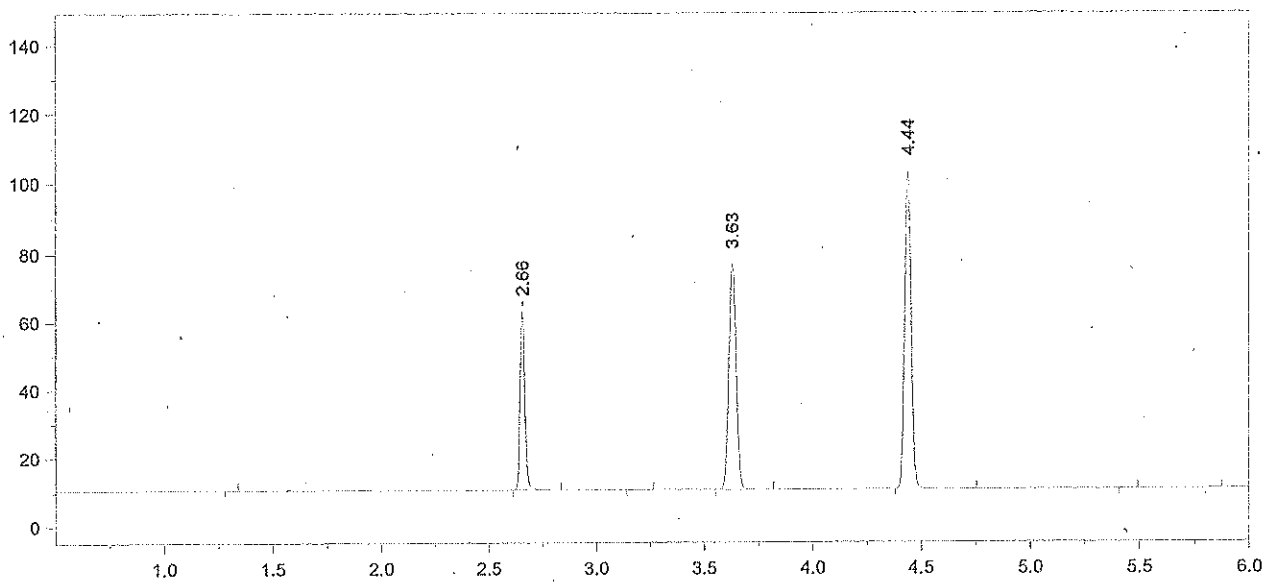
Today's Date = 7/9/2015
Today's Time = 7:44:18 AM
Bound File Name = VFL07082015.0007.RAW
Sample Name = STD E
Date Taken = 7/8/2015 3:41:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

AS 7/10/15

A.55 80



Format File Name = AlcoholVFL.FMT

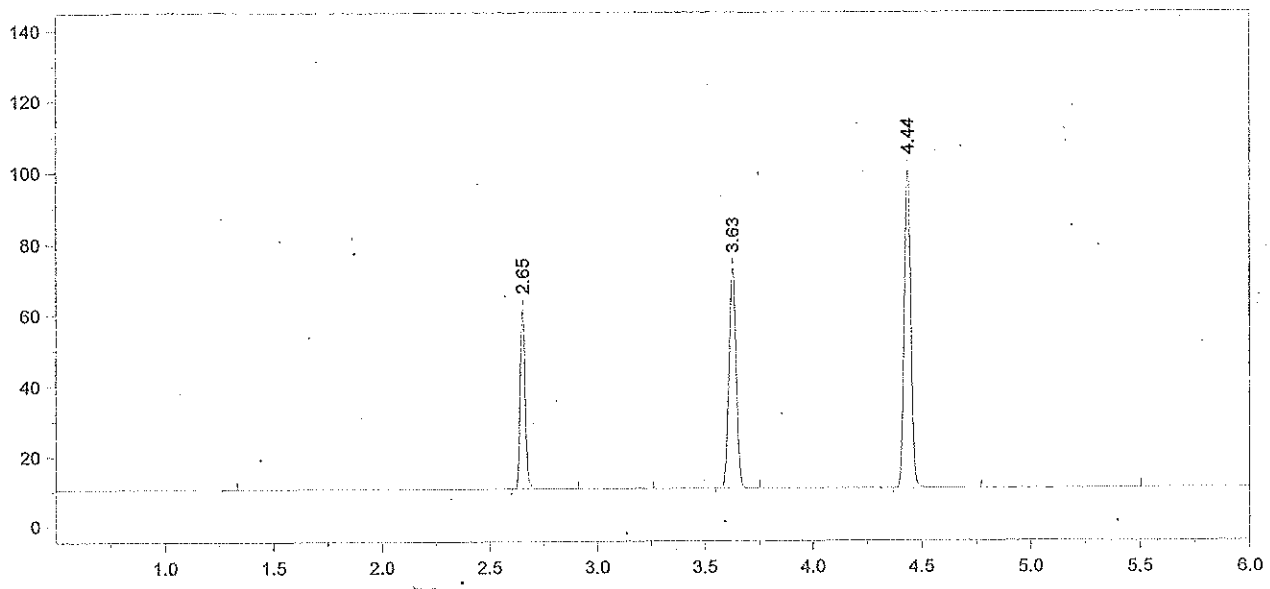
Today's Date = 7/8/2015
Today's Time = 3:58:22 PM
Bound File Name = VFL07082015.0008.RAW
Sample Name = AQ
Date Taken = 7/8/2015 3:58:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

7/10/15

p. 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

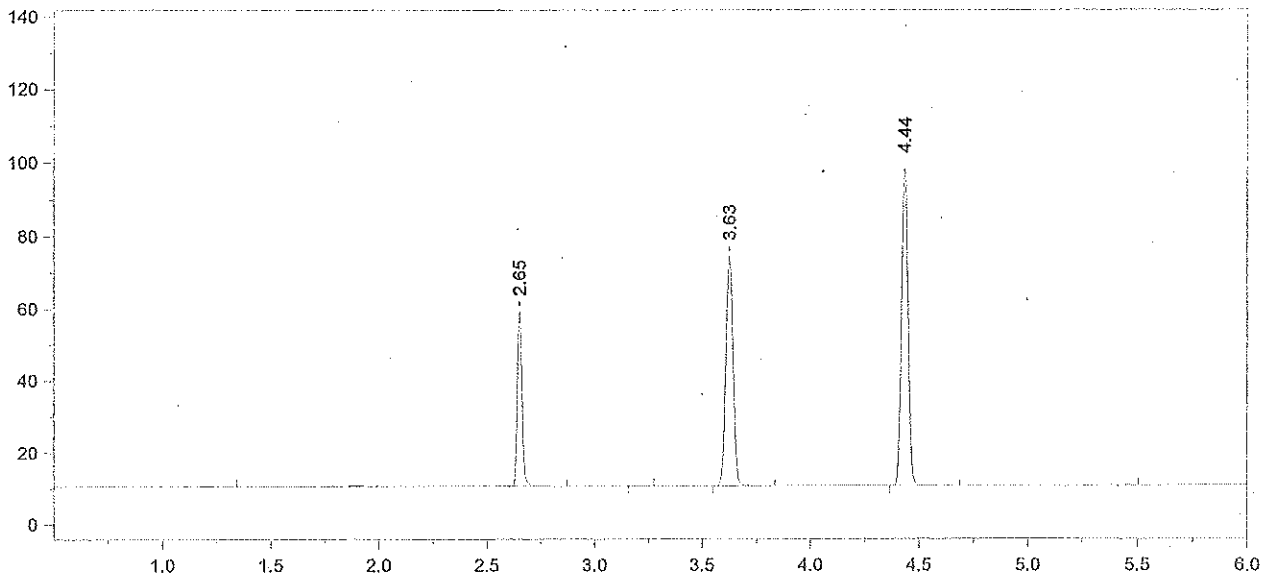
Recovery: $\frac{0.077}{0.08}$ = 96.2%

DJ 7/9/15

15-10-400

AB 7/10/15

p.57



Format File Name = AlcoholVFL.FMT

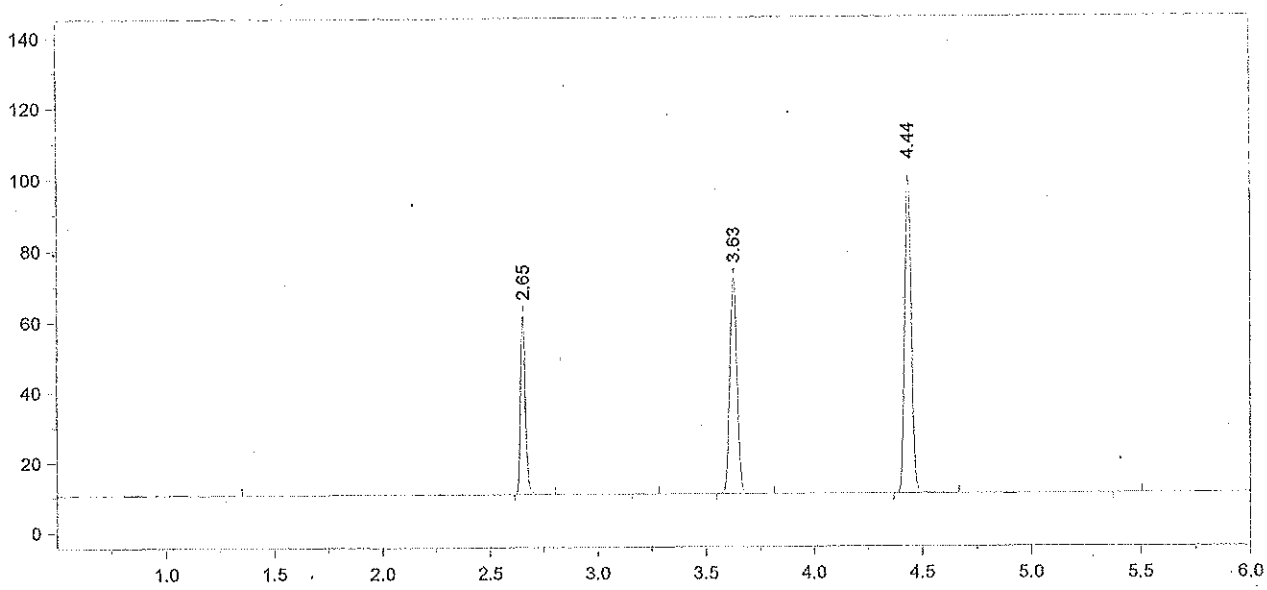
Today's Date = 7/8/2015
Today's Time = 4:29:47 PM
Bound File Name = VFL07082015.0010.RAW
Sample Name = CCS
Date Taken = 7/8/2015 4:29:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

AB 7/10/15

p. 58



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

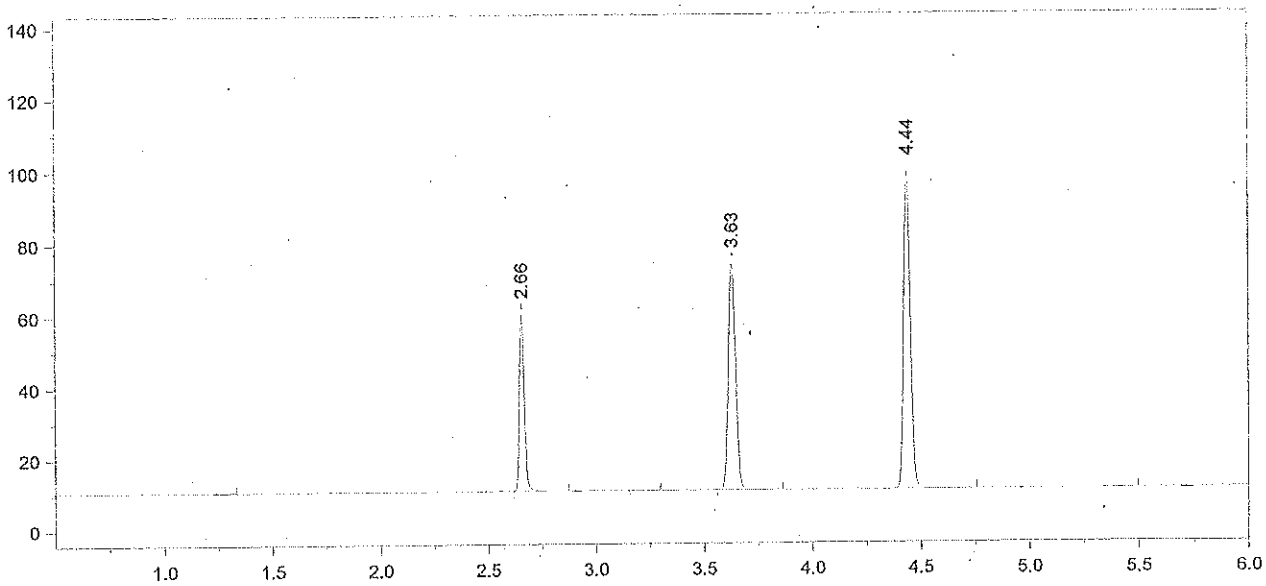
±5%: 0.0728 - 0.0804

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

DG 7/21/15

15-10-400

AB 7/10/15 p. 59 DG



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

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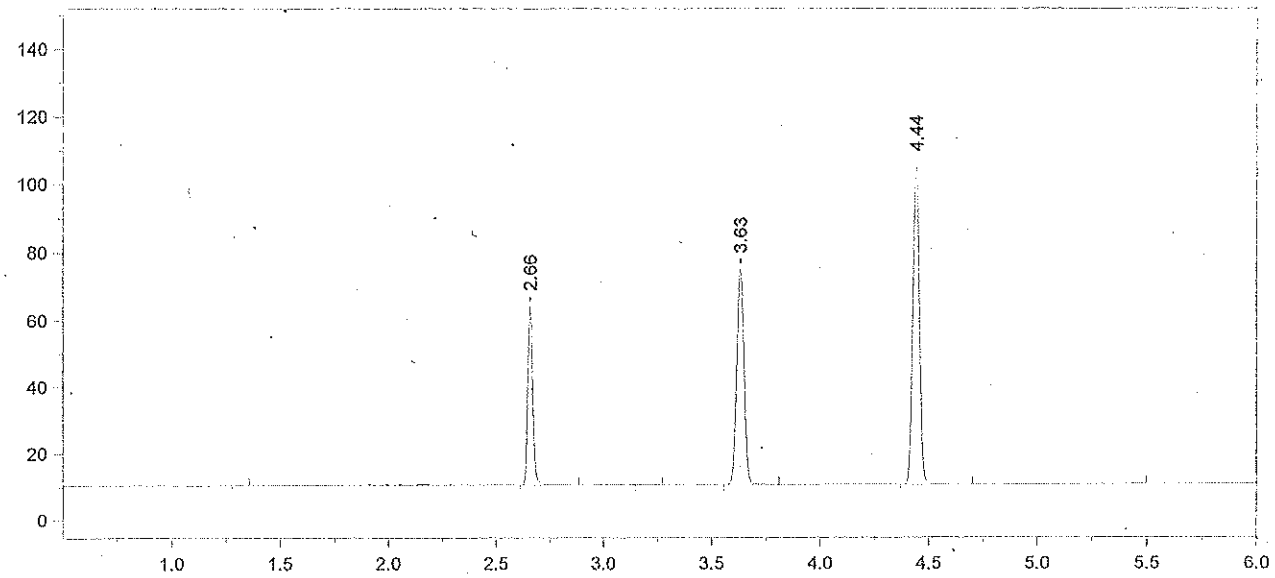
7/10/15

p. 60



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%

DL 7/9/15

15-10-400

AB 7/10/15

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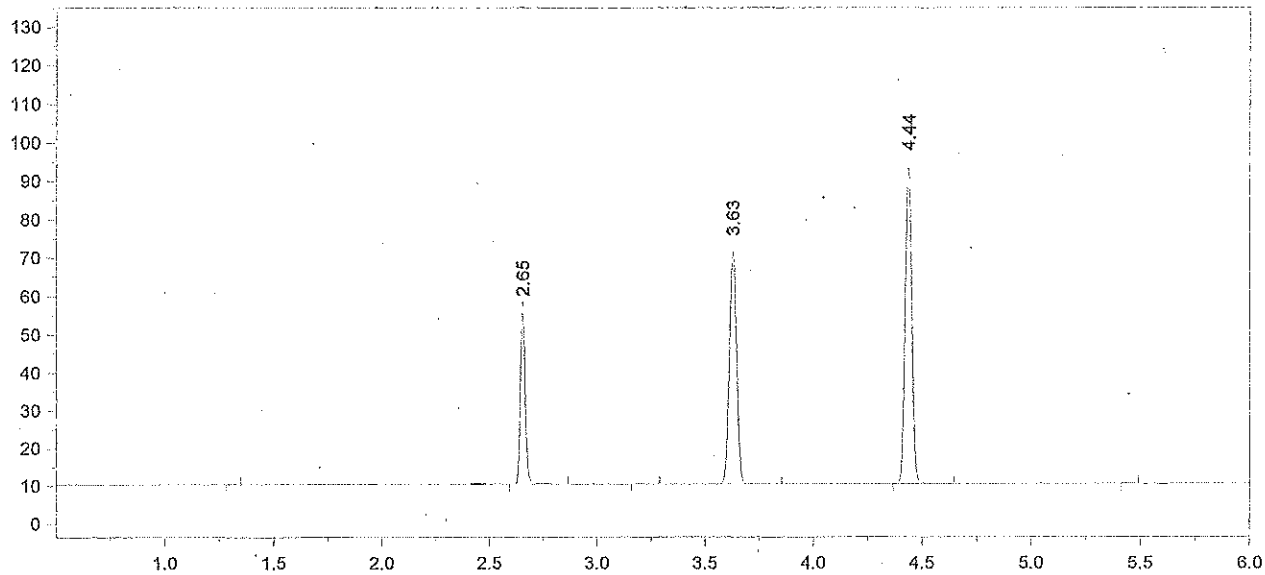


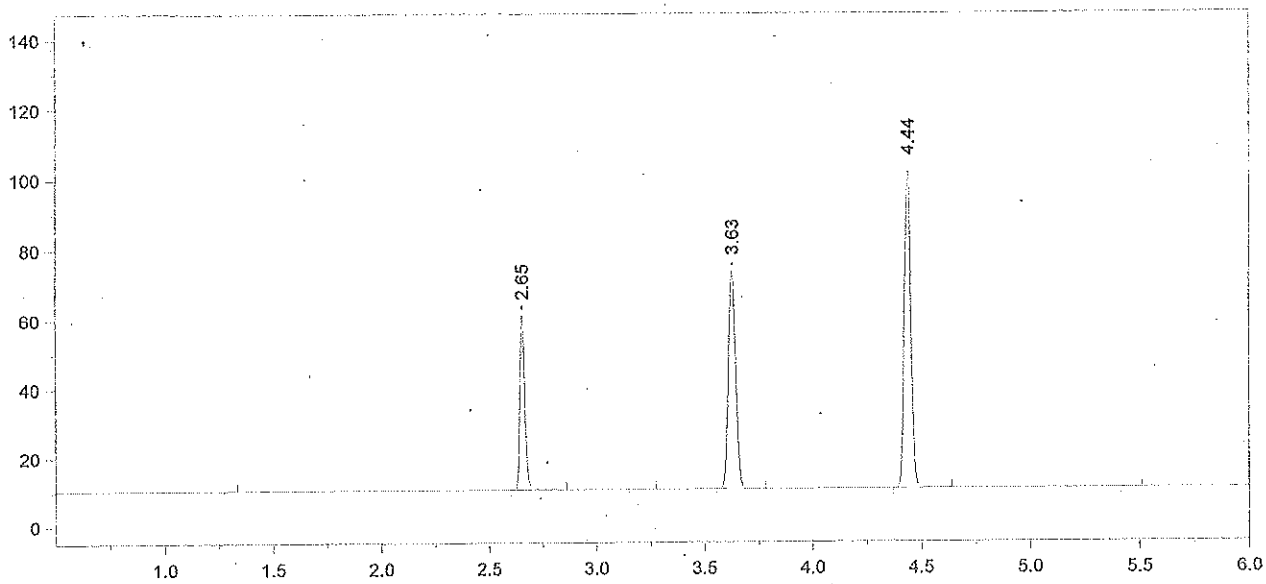
Format File Name = AlcoholVFL.FMT

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

AB 7/10/15 15-10-400 0.62

dk



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

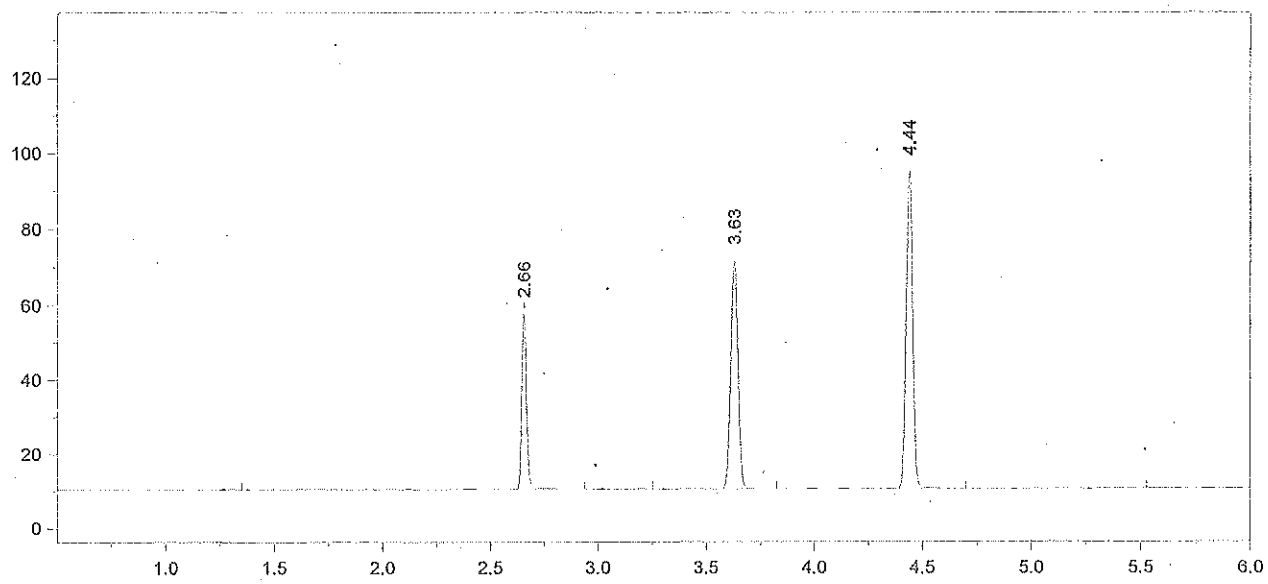
CCS MEAN: 0.0757 % ETHANOL
±5% : 0.0719 - 0.0795
RECOVERY: 0.076 / 0.08 = 95%

7/9/15

15-10-400

AB 7/10/15

p.63



Format File Name = AlcoholVFL.FMT

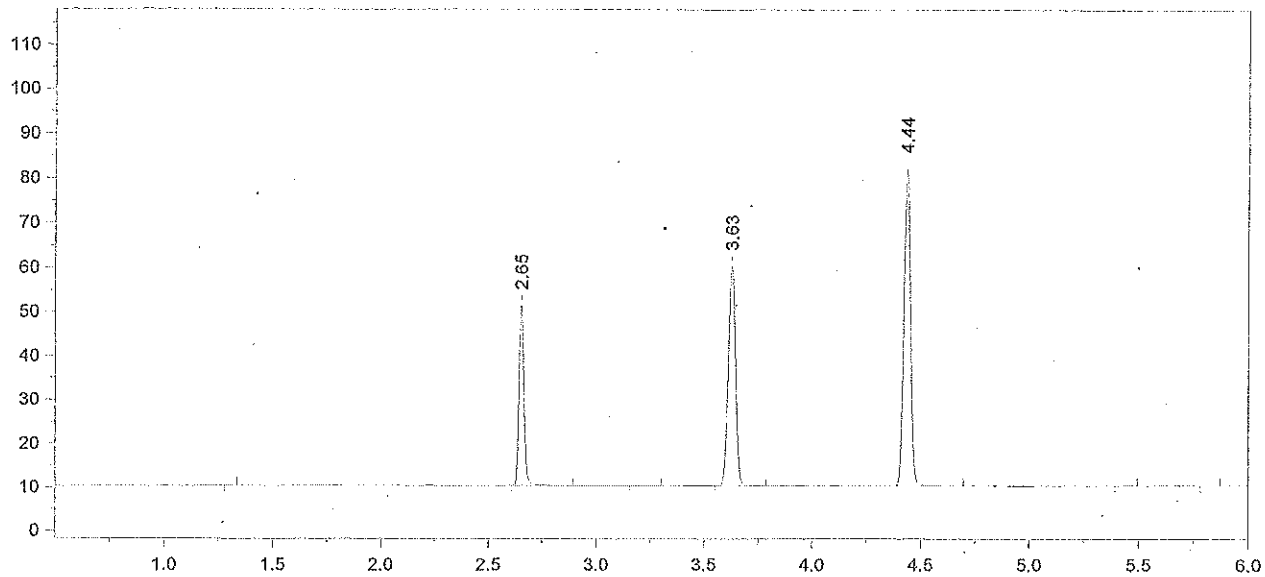
Today's Date = 7/9/2015
Today's Time = 1:22:36 AM
Bound File Name = VFL07082015.0044.RAW
Sample Name = CCS
Date Taken = 7/9/2015 1:22:29 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

7/10/15

p.64



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

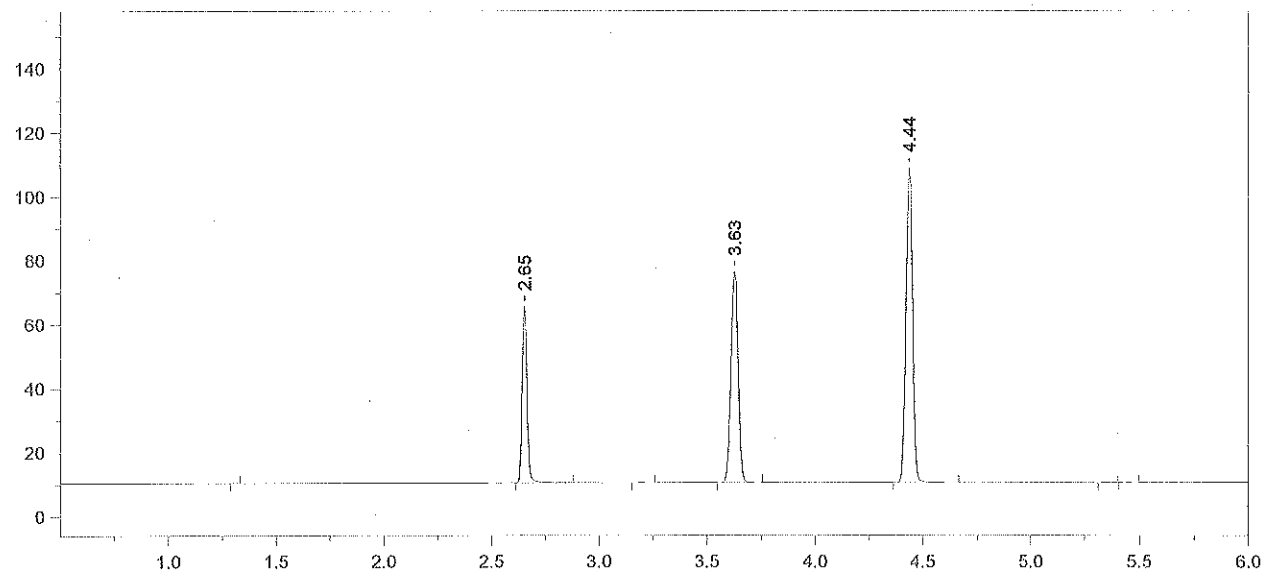
RECOVERY: $\frac{0.078}{0.08}$ = 97.5%

7/9/15

15-10-400

7/10/15

p.65



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

15-10-400

AB 7/10/15

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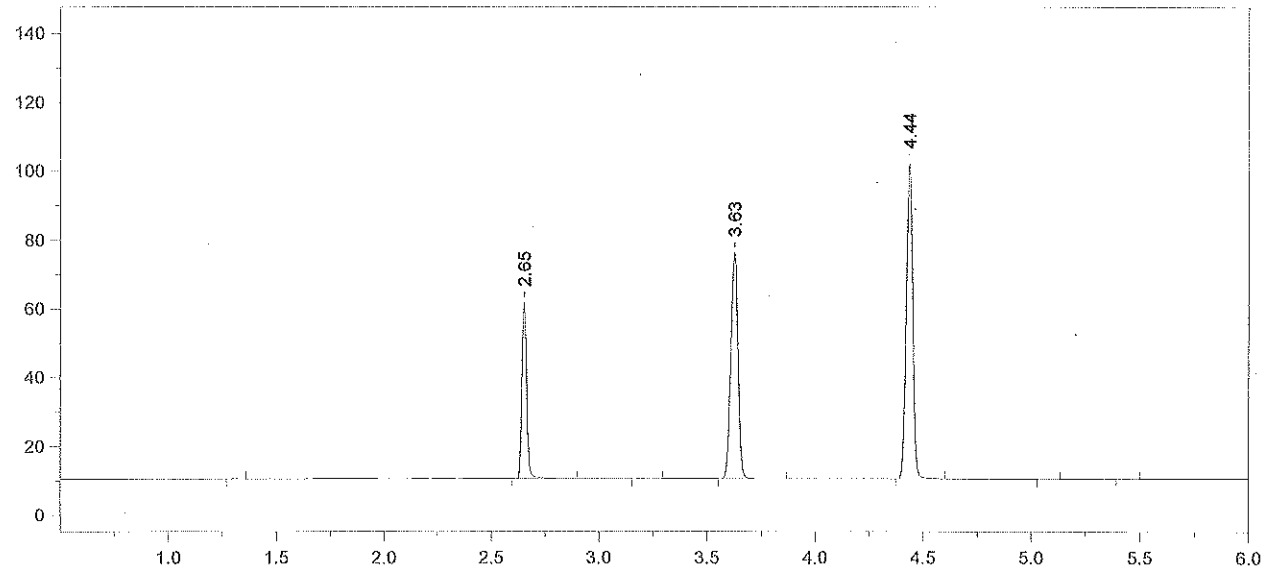


Format File Name = AlcoholVFL.FMT

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

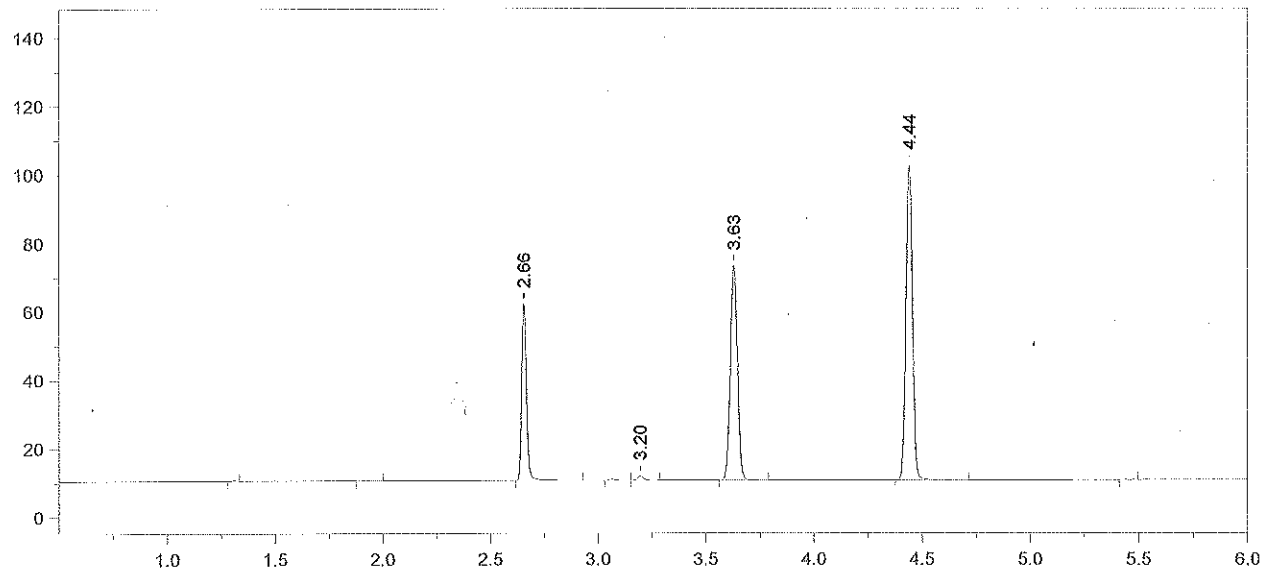
Recovery: $\frac{0.077}{0.08}$ = 96.2%

7/10/15

15-10-2400

7/10/15

p. 67



Format File Name = AlcoholVFL.FMT

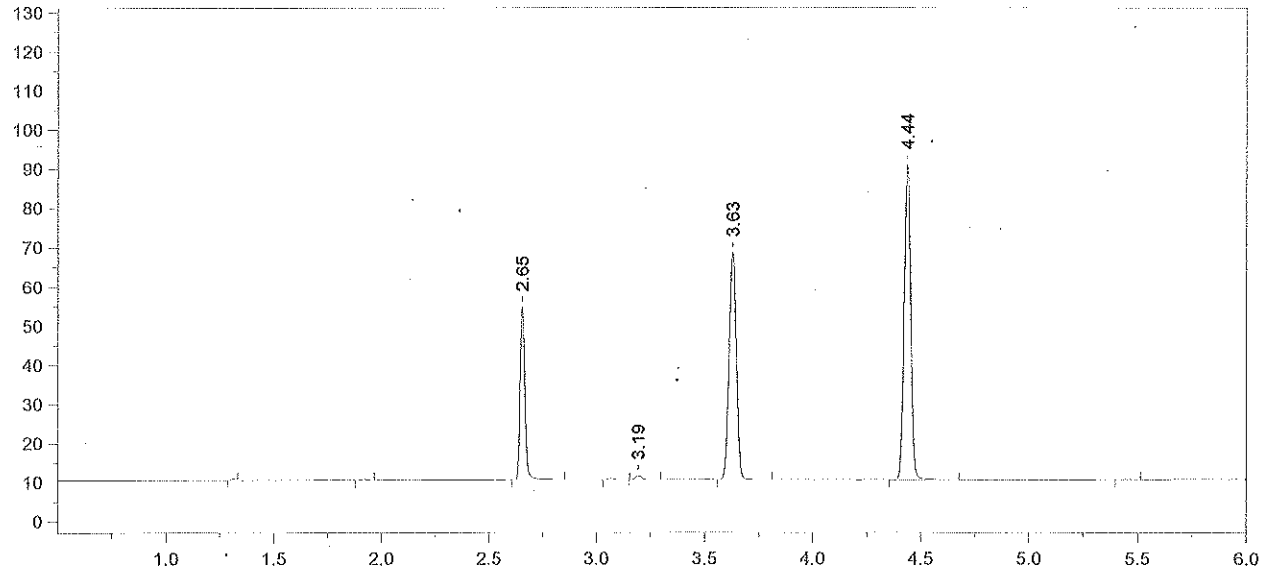
Today's Date = 7/9/2015
Today's Time = 11:31:13 AM
Bound File Name = VFL07082015.0048.RAW
Sample Name = WB
Date Taken = 7/9/2015 11:31:09 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

29-10-400

AB 7/10/15

p. 68 DS



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

WB Control: CLINIQA LOT # 122090

WB MEAN: 0.0768 % ETHANOL

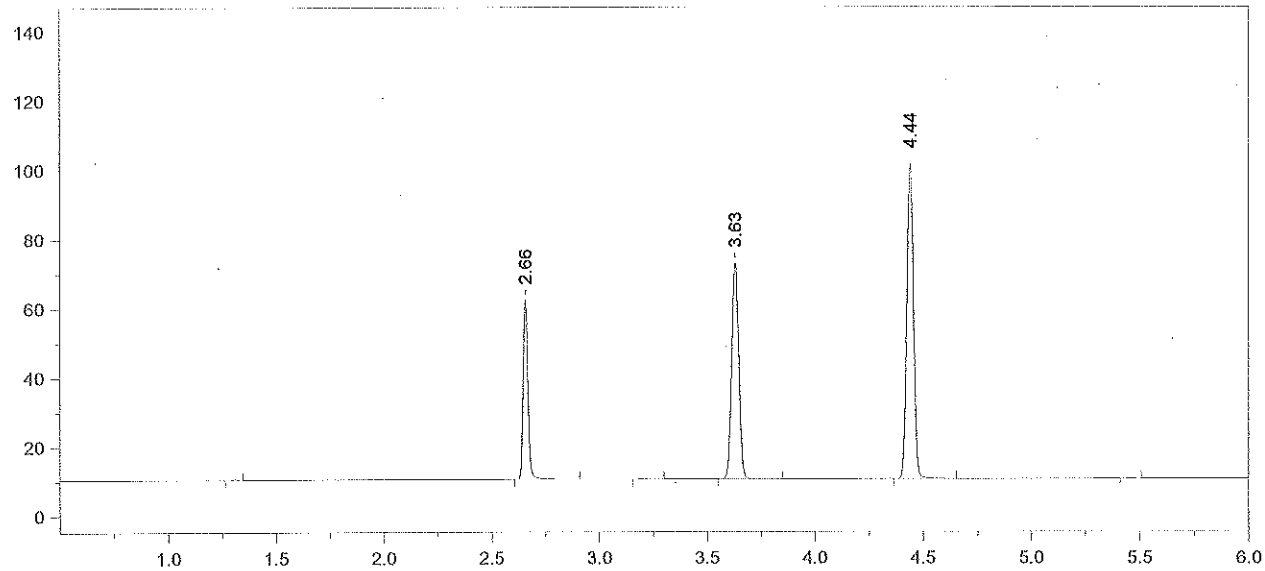
±5% : 0.0729 – 0.0806

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

7/10/15

15-10-200

AB 7/10/15 c 69



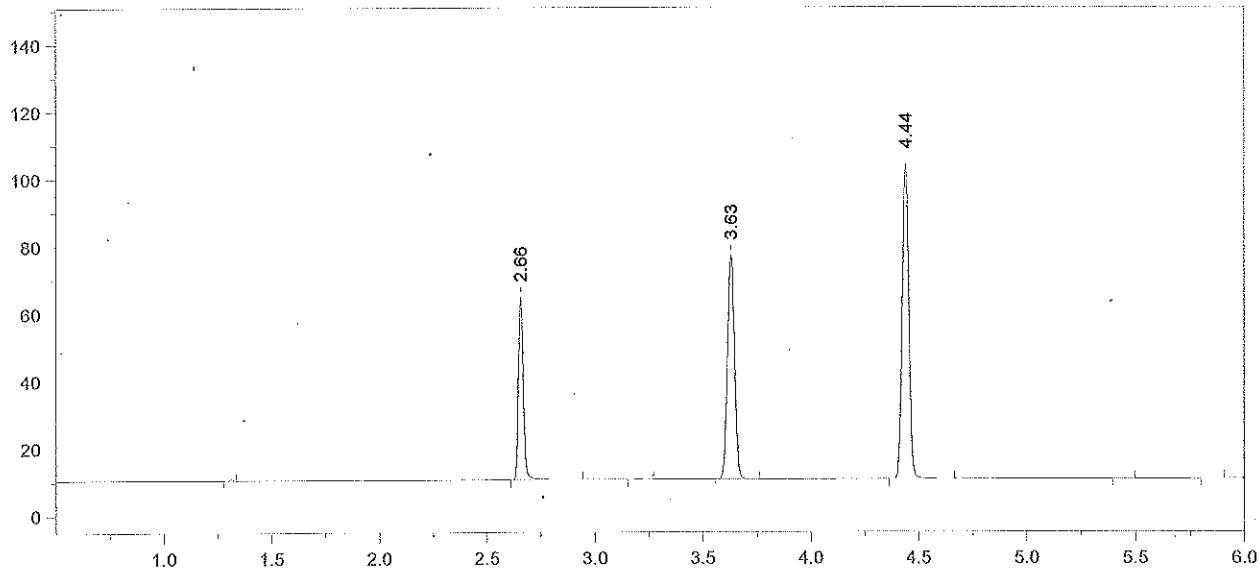
Format File Name = AlcoholVFL.FMT

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

10-10-400

AB 7/10/15 #70 DB



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

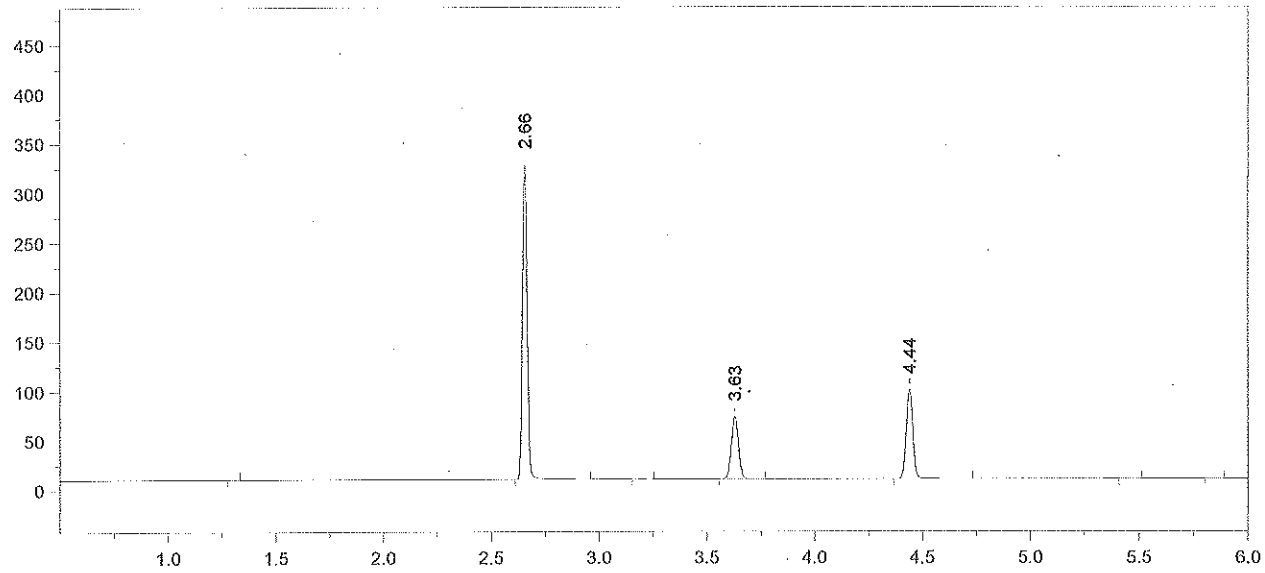
±5% : 0.0747 - 0.0825

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

DJ 7/10/15

15-10-400

AB 7/10/15 071 DS



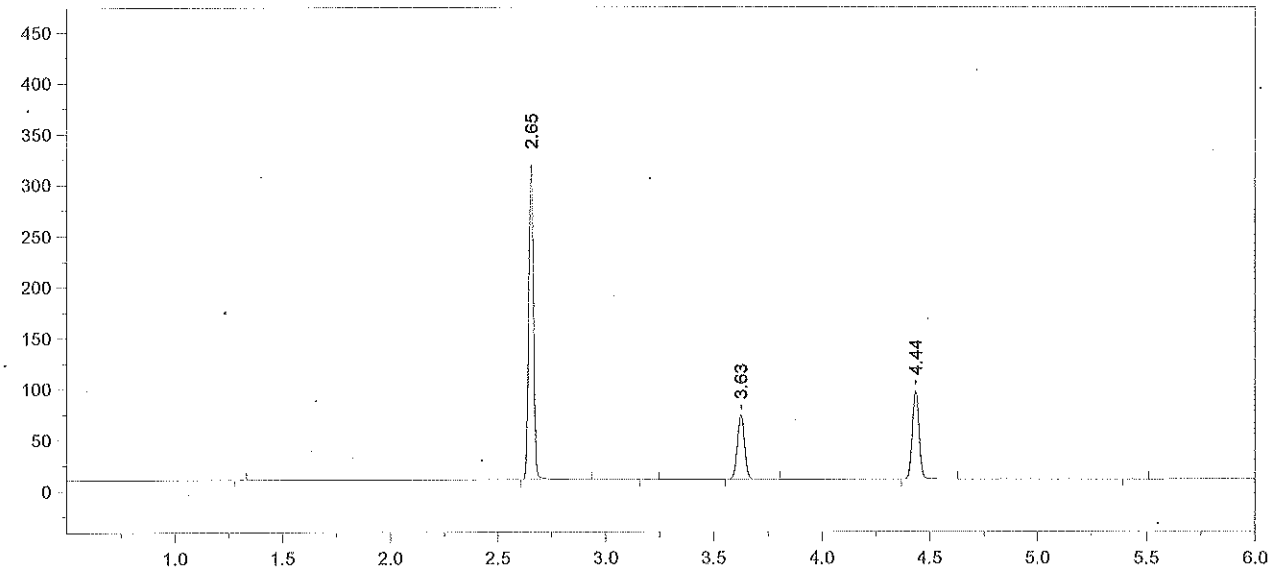
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 3:10:57 PM
Bound File Name = VFL07082015.0062.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 3:10:51 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	490681	0.4793	0.3912
4	3.63	t-Butanol	145692	0.9960	0.8129
5	4.44	n-Propanol	191931	1.0000	0.8162

15-10-400

7/10/15 7/10/15 872



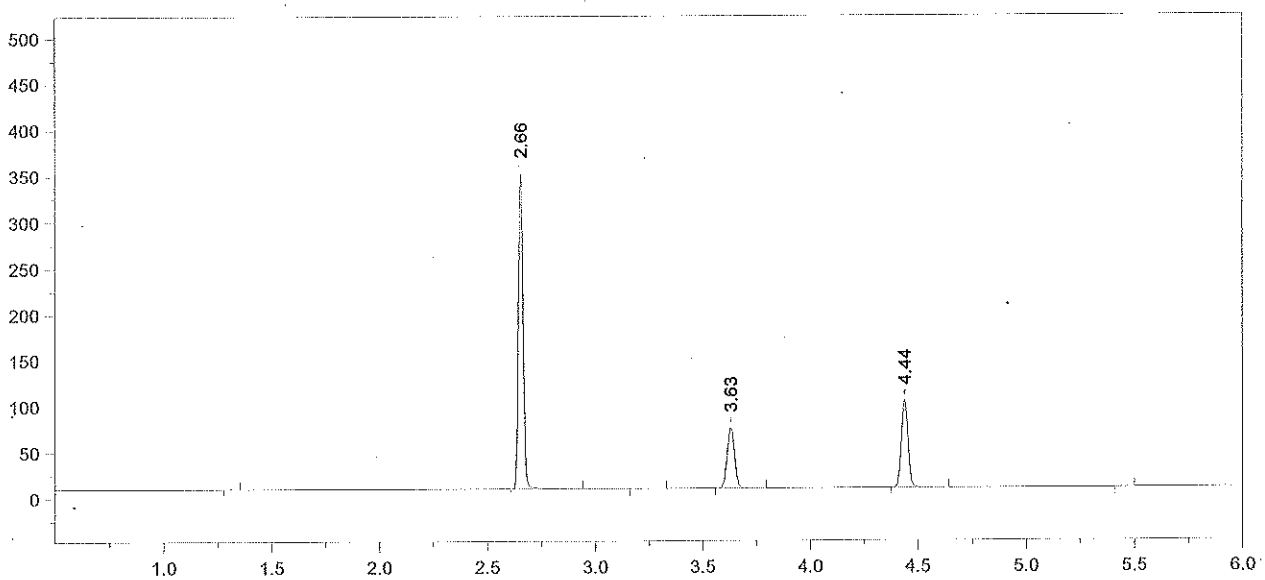
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 3:29:09 PM
Bound File Name = VFL07082015.0063.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 3:29:01 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	474390	0.4806	0.3923
4	3.63	t-Butanol	146230	1.0369	0.8463
5	4.44	n-Propanol	185052	1.0000	0.8162

15-10-400

AB 7/10/15 p73 Ok



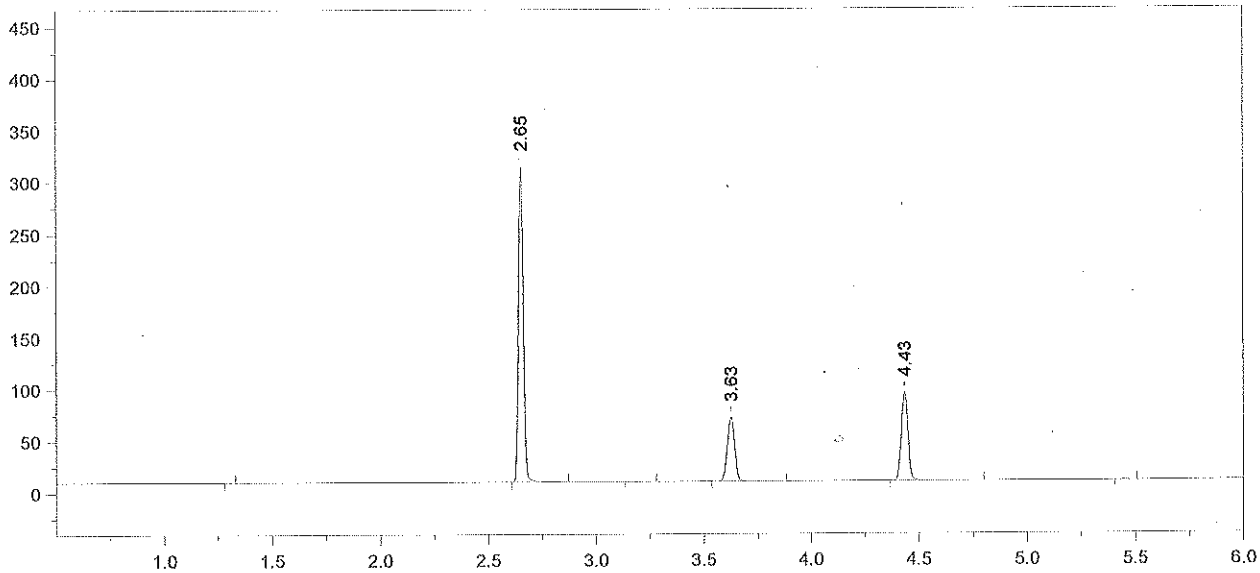
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015 Today's Time = 3:42:24 PM
Bound File Name = VFL07082015.0064.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 3:42:19 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	523264	0.4866	0.3972
5	3.63	t-Butanol	151251	0.9845	0.8035
6	4.44	n-Propanol	201589	1.0000	0.8162

15-10-400

7/10/15 p 74 DS



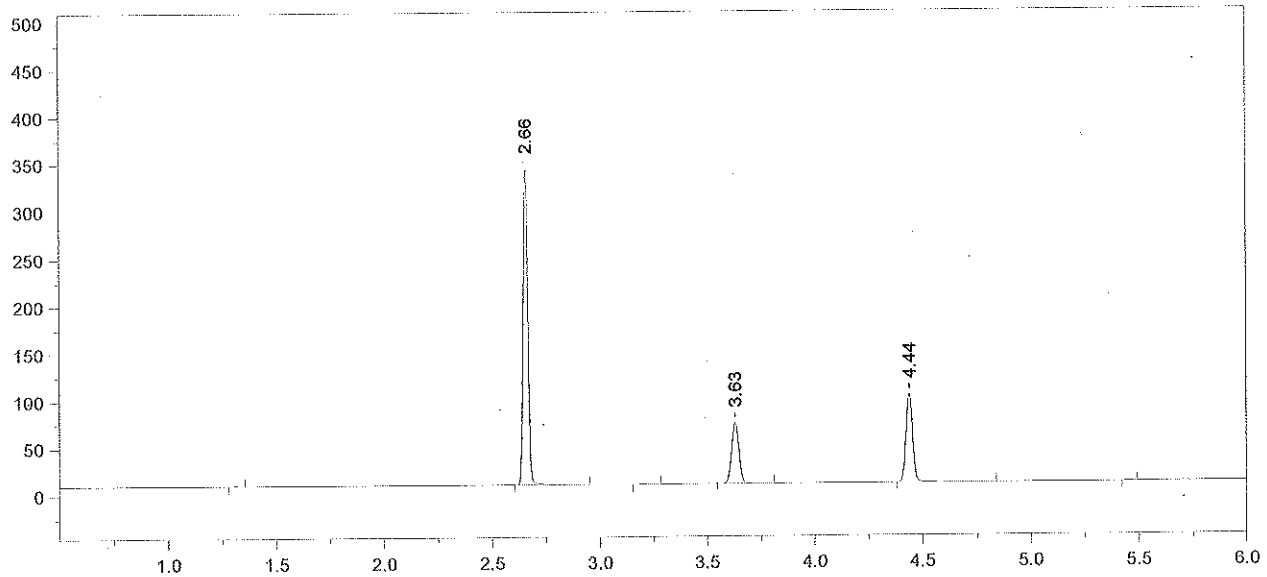
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 4:00:35 PM
Bound File Name = VFL07082015.0065.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 4:00:26 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	467063	0.4821	0.3935
4	3.63	t-Butanol	143210	1.0346	0.8444
5	4.43	n-Propanol	181630	1.0000	0.8162

15-10-400

AB 7/10/15 p75 DS



Format File Name = simsolnVFL.met.FMT

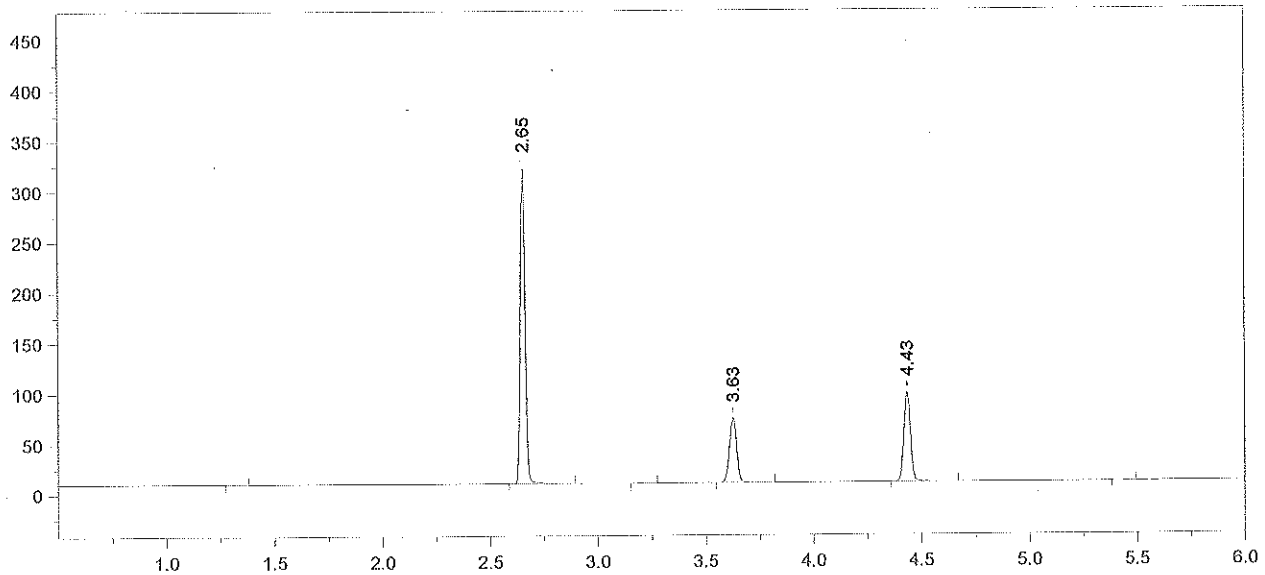
Today's Date = 7/9/2015
Today's Time = 4:13:45 PM
Bound File Name = VFL07082015.0066.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 4:13:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	514568	0.4886	0.3988
4	3.63	t-Butanol	148245	0.9851	0.8040
5	4.44	n-Propanol	197461	1.0000	0.8162

.5-10-400

AB 7/10/15

DTE DR



Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 4:31:59 PM
Bound File Name = VFL07082015.0067.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 4:31:50 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	478817	0.4789	0.3909
4	3.63	t-Butanol	148339	1.0384	0.8475
5	4.43	n-Propanol	187442	1.0000	0.8162

15-10-400

AB 7/10/15

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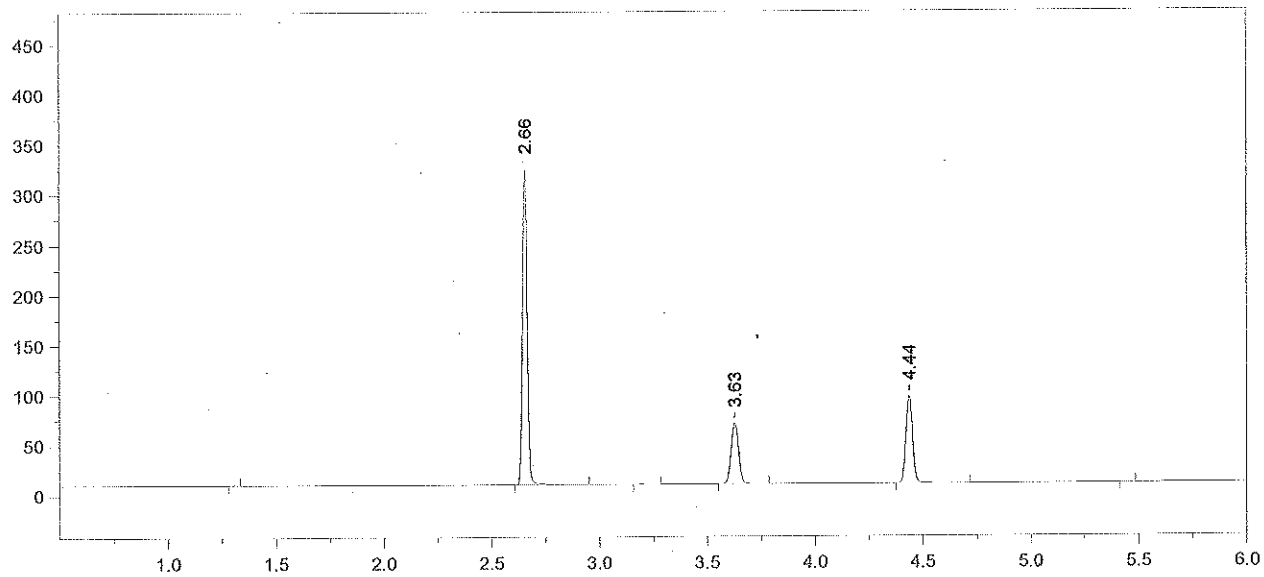


Format File Name = simsolnVFL.met.FMT

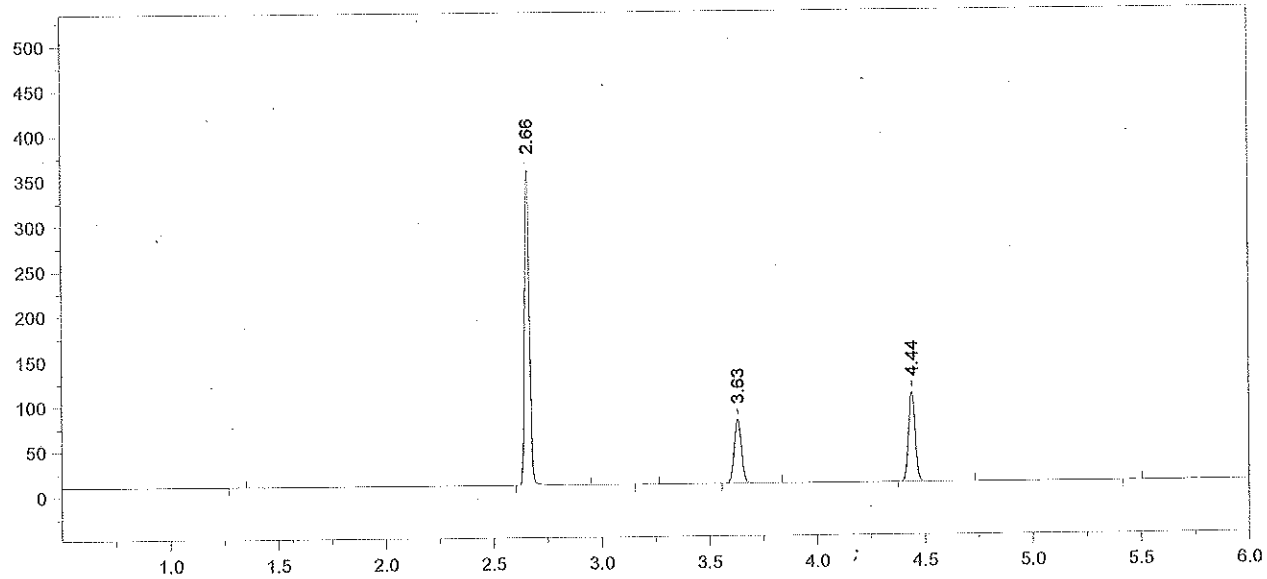
Today's Date = 7/9/2015
Today's Time = 4:46:50 PM
Bound File Name = VFL07082015.0068.RAW
Sample Name = .40 DJP
Date Taken = 7/9/2015 4:46:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	483353	0.4903	0.4002
4	3.63	t-Butanol	140130	0.9949	0.8120
5	4.44	n-Propanol	184817	1.0000	0.8162

15-10-400

AB 7/10/15

p78 Dr



Format File Name = simsolnVFL.met.FMT

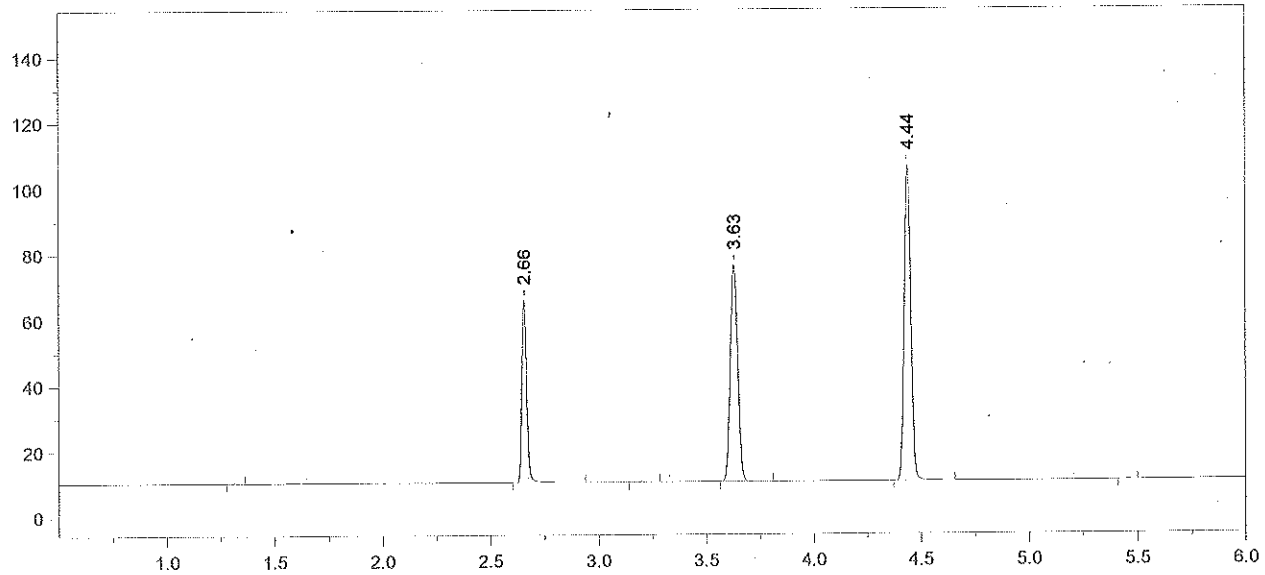
Today's Date = 7/9/2015
Today's Time = 5:01:43 PM
Bound File Name = VFL07082015.0069.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 5:01:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	538514	0.4771	0.3894
4	3.63	t-Butanol	164607	1.0207	0.8331
5	4.44	n-Propanol	211596	1.0000	0.8162

15-10-400

AB 7/10/15

p79



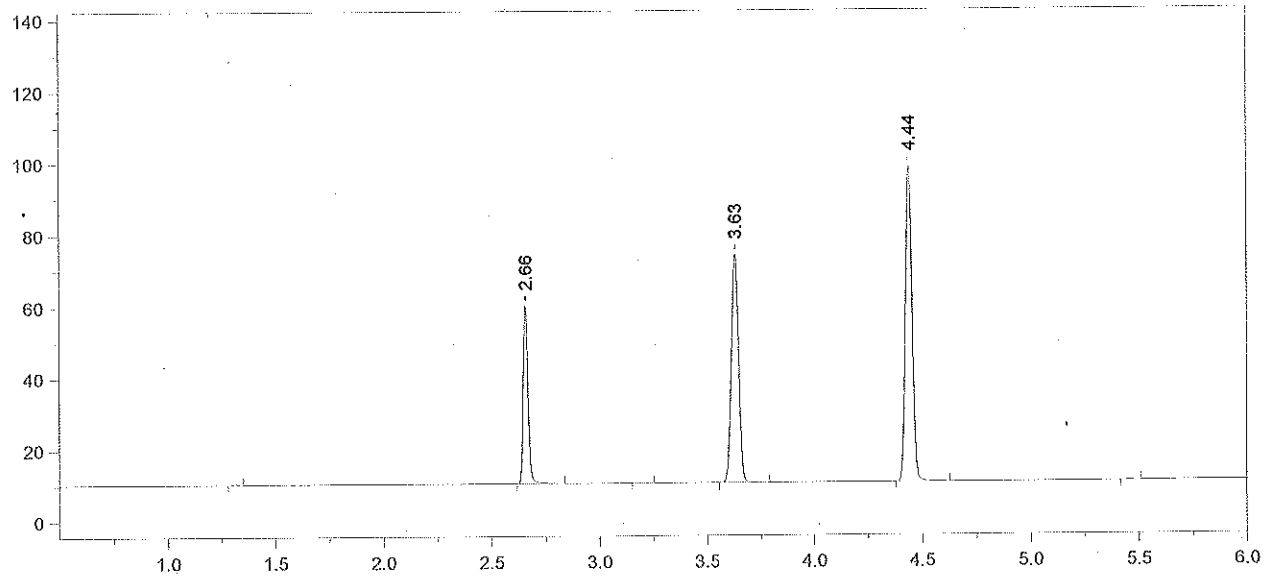
Format File Name = AlcoholVFL.FMT

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

1510-400

AB 7/10/15 P.80 Dr



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

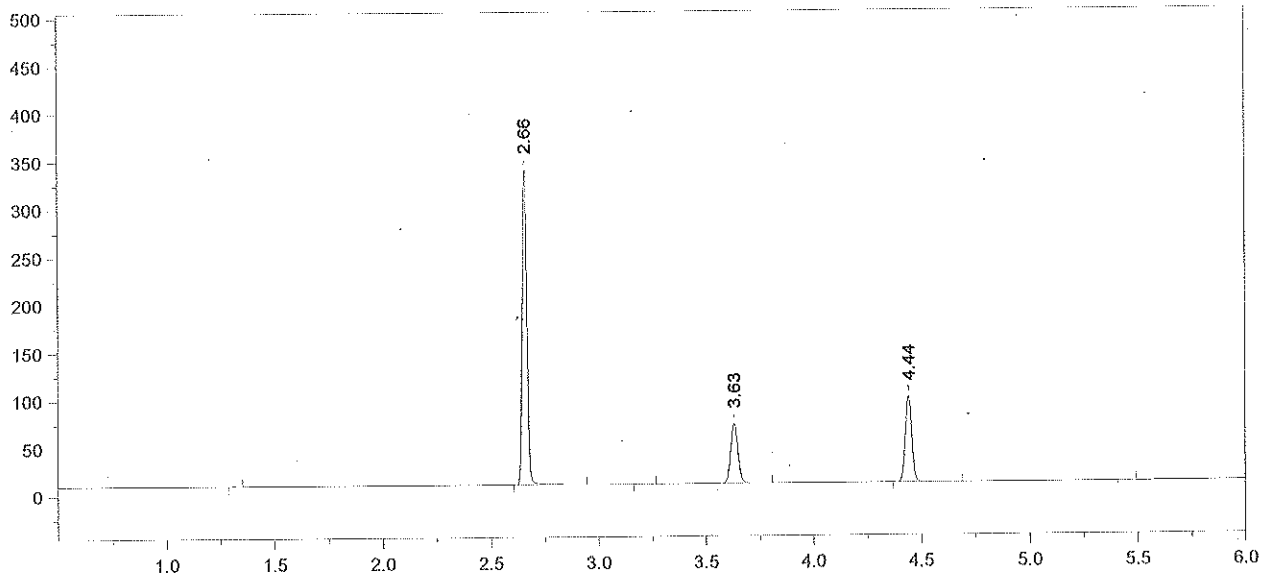
±5% : 0.0747 - 0.0825

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

DR 7/10/15

15-10-400

7/10/15 2.81 DC



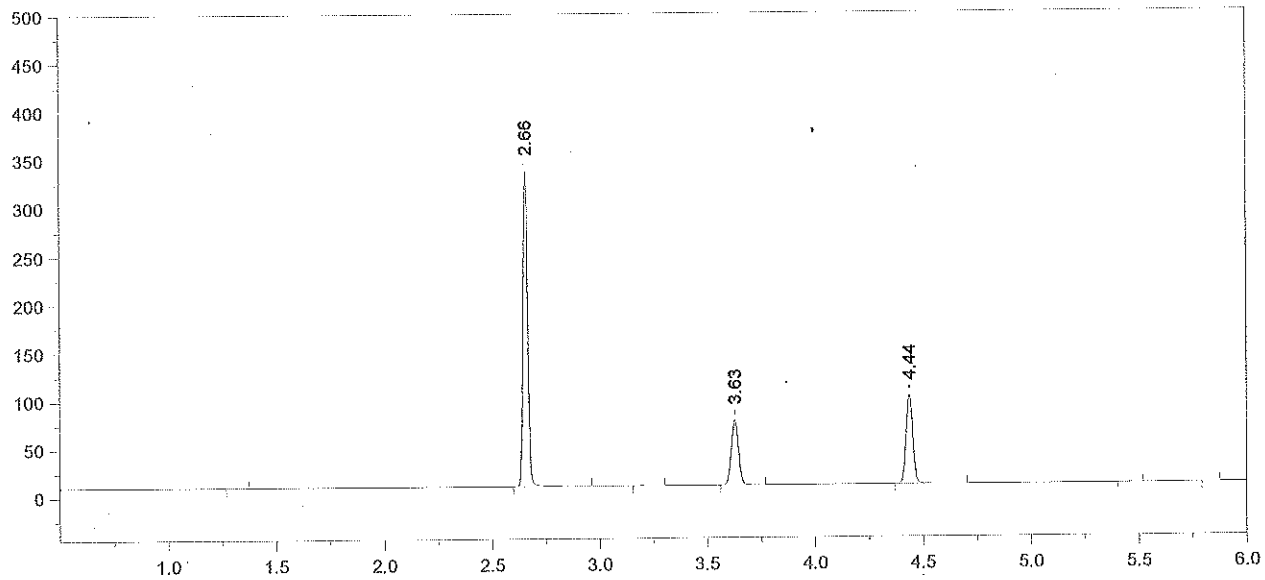
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 5:47:02 PM
Bound File Name = VFL07082015.0072.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 5:46:56 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
3	2.66	Ethanol	505044	0.4935	0.4028
5	3.63	t-Butanol	143551	0.9817	0.8013
6	4.44	n-Propanol	191862	1.0000	0.8162

15-10-400

AB 7/10/15 p82



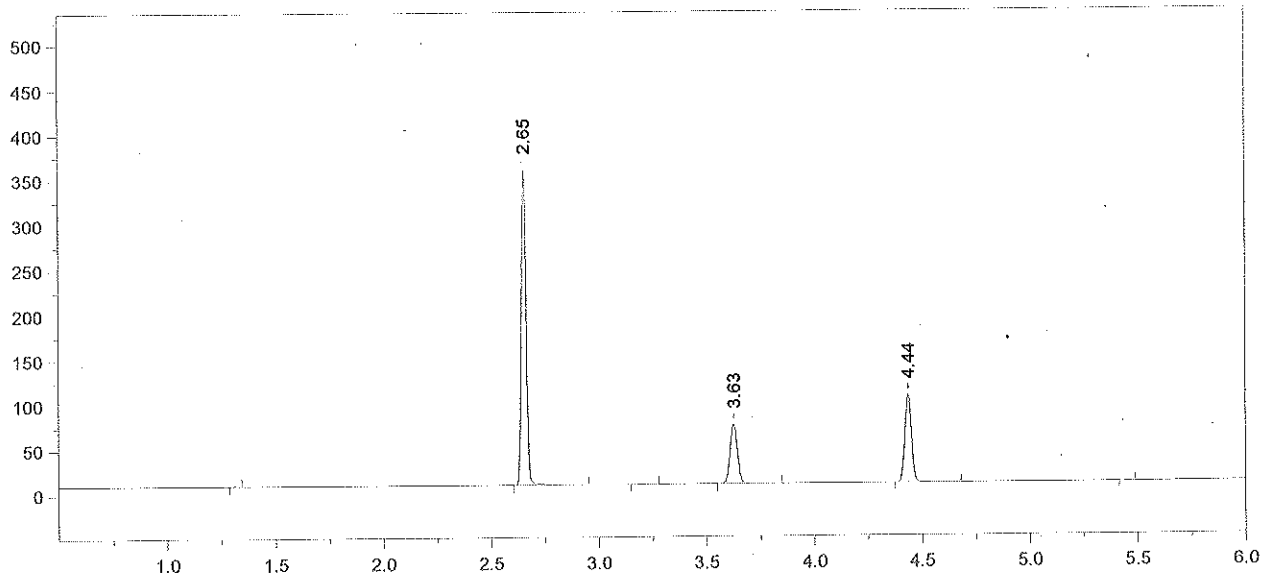
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 6:04:37 PM
Bound File Name = VFL07082015.0073.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 6:04:30 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	499488	0.4782	0.3903
4	3.63	t-Butanol	154870	1.0377	0.8470
5	4.44	n-Propanol	195822	1.0000	0.8162

15-70-400

AB 7/10/15 p. 82



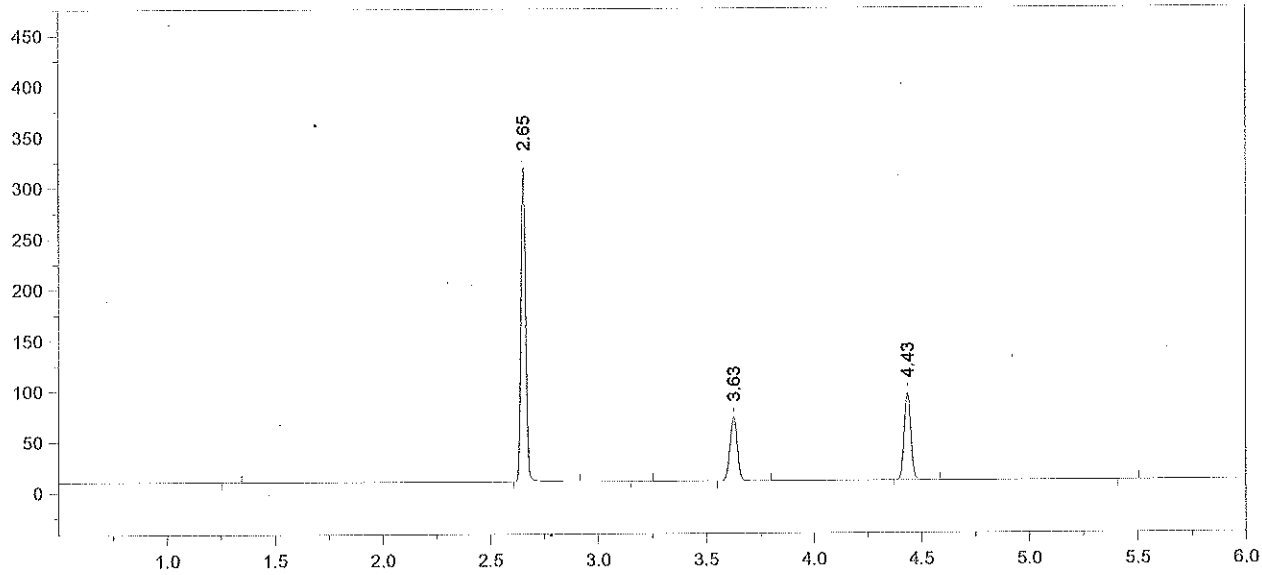
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 6:19:31 PM
Bound File Name = VFL07082015.0074.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 6:19:23 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	543385	0.4937	0.4029
4	3.63	t-Butanol	152754	0.9713	0.7928
5	4.44	n-Propanol	206359	1.0000	0.8162

15-10-400

AB 7/10/15 p84



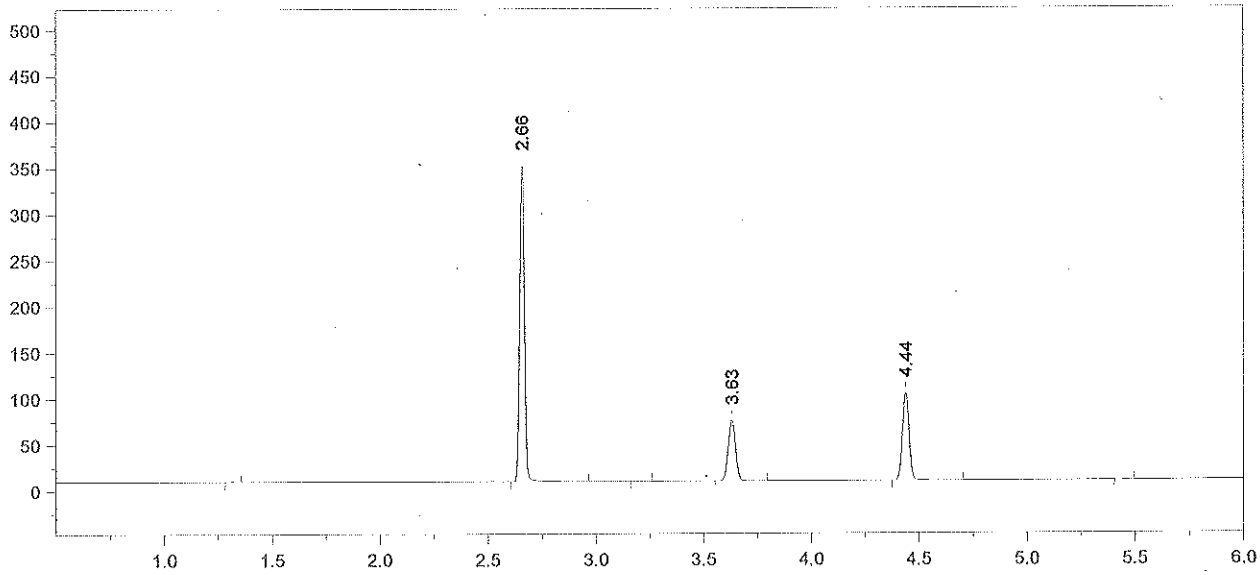
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 6:36:00 PM
Bound File Name = VFL07082015.0075.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 6:35:52 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	2.65	Ethanol	474138	0.4882	0.3985
4	3.63	t-Butanol	145173	1.0461	0.8539
5	4.43	n-Propanol	182084	1.0000	0.8162

1570.400

7/10/15 P85



Format File Name = simsolnVFL.met.FMT

Today's Date = 7/9/2015
Today's Time = 6:50:58 PM
Bound File Name = VFL07082015.0076.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 6:50:50 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	530223	0.4935	0.4028
4	3.63	t-Butanol	151454	0.9867	0.8053
5	4.44	n-Propanol	201409	1.0000	0.8162

15-10-400

AB 7/10/15

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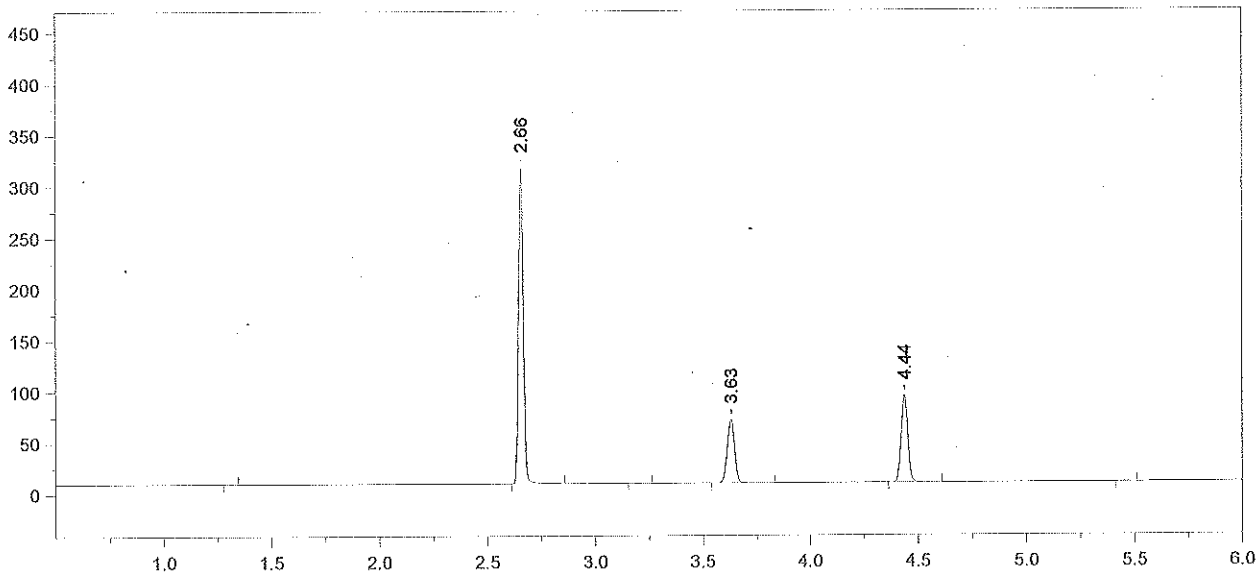


Format File Name = simsolnVFL.met.FMT

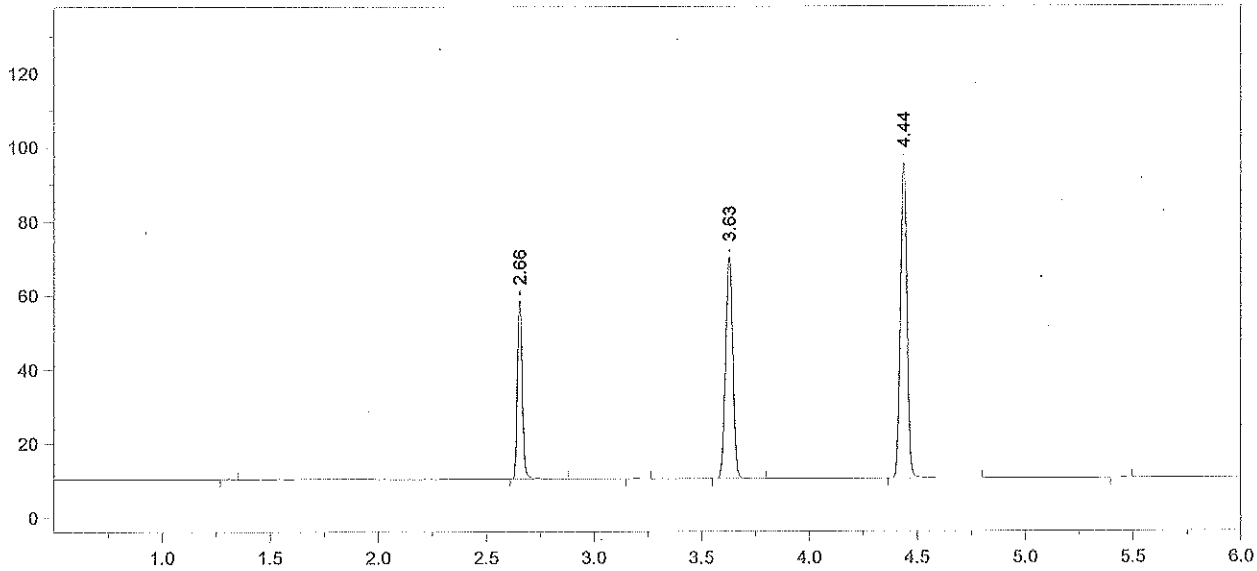
Today's Date = 7/9/2015
Today's Time = 7:07:27 PM
Bound File Name = VFL07082015.0077.RAW
Sample Name = .40 ALB
Date Taken = 7/9/2015 7:07:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07082015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	468563	0.4914	0.4011
4	3.63	t-Butanol	143300	1.0518	0.8585
5	4.44	n-Propanol	178772	1.0000	0.8162

15-10-400

AB 7/10/15

p 87 86



Format File Name = AlcoholVFL.FMT

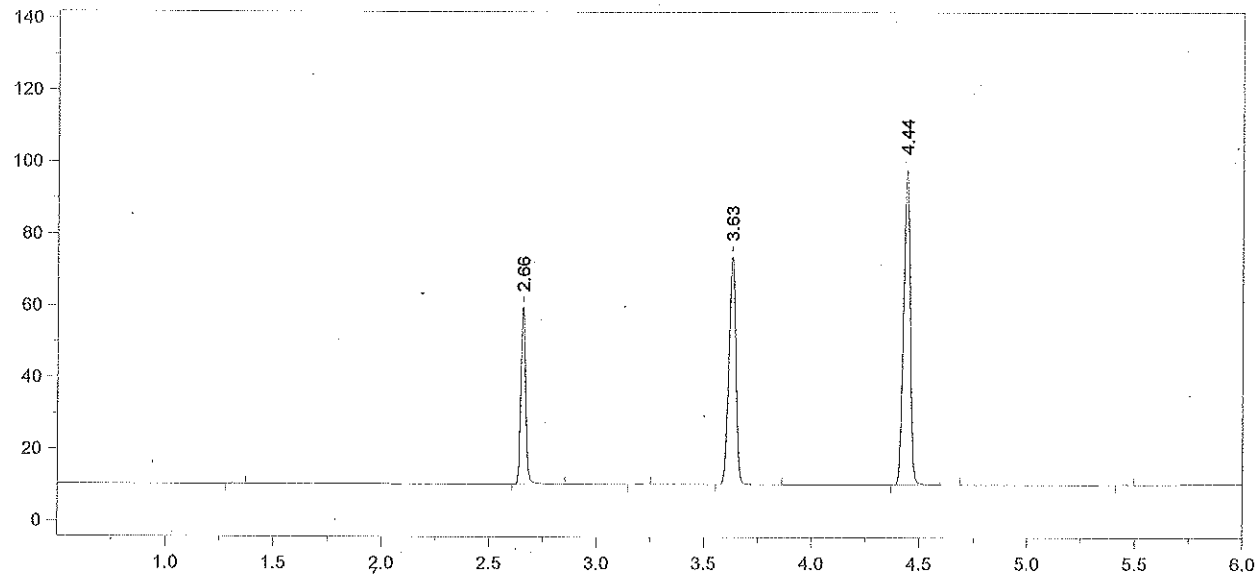
Today's Date = 7/9/2015
Today's Time = 7:53:26 PM
Bound File Name = VFL07082015.0080.RAW
Sample Name = CCS
Date Taken = 7/9/2015 7:53:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07082015.CAL
Calibration Version = 7

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

15-10-400

AB 7/10/15

0 88 88



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

1570-40

AB 7/10/15 P89

File Name = C:\Alcohol Data\VFL07062015\VFL07062015.SEQ
Version = 4
File Date = 7/7/2015 9:38:49 AM

Entry #	Raw File Name	Method File Name	Sample Name Lot #	Sample Wt.	Int. Std. Amount
1	VFL07062015.0001.raw	Blood Alc temp VFL.MET	BLANK BL-06022015	1.00	1.00
2	VFL07062015.0002.raw	Blood Alc temp VFL.MET	TMX TMX-06022015	1.00	1.00
3	VFL07062015.0003.raw	Blood Alc temp VFL.MET	STD A FN01131401	1.00	1.00
4	VFL07062015.0004.raw	Blood Alc temp VFL.MET	STD B FN08101401	1.00	1.00
5	VFL07062015.0005.raw	Blood Alc temp VFL.MET	STD C FN 072114-02	1.00	1.00
6	VFL07062015.0006.raw	Blood Alc temp VFL.MET	STD D FN 032712-01	1.00	1.00
7	VFL07062015.0007.raw	Blood Alc temp VFL.MET	STD E FN 012712-01	1.00	1.00
8	VFL07062015.0008.raw	Blood Alc temp VFL.MET	AQ FN 021111X-03	1.00	1.00
9	VFL07062015.0009.raw	Blood Alc temp VFL.MET	AQ 04/10/15 DS 7/8/15	1.00	1.00
10	VFL07062015.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL07062015.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL07062015.0012.raw	simsoln.met	.02 DJP	1.00	1.00
13	VFL07062015.0013.raw	simsoln.met	.02 DJP	1.00	1.00
14	VFL07062015.0014.raw	simsoln.met	.02 DJP	1.00	1.00
15	VFL07062015.0015.raw	simsoln.met	.02 DJP	1.00	1.00
16	VFL07062015.0016.raw	simsoln.met	.02 DJP	1.00	1.00
17	VFL07062015.0017.raw	simsoln.met	.02 DJP	1.00	1.00
18	VFL07062015.0018.raw	simsoln.met	.02 DJP	1.00	1.00
19	VFL07062015.0019.raw	simsoln.met	.02 ALB	1.00	1.00
20	VFL07062015.0020.raw	simsoln.met	.02 ALB	1.00	1.00
21	VFL07062015.0021.raw	simsoln.met	.02 ALB	1.00	1.00
22	VFL07062015.0022.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
23	VFL07062015.0023.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
24	VFL07062015.0024.raw	simsoln.met	.02 ALB	1.00	1.00
25	VFL07062015.0025.raw	simsoln.met	.02 ALB	1.00	1.00
26	VFL07062015.0026.raw	simsoln.met	.02 ALB	1.00	1.00
27	VFL07062015.0027.raw	simsoln.met	.02 ALB	1.00	1.00
28	VFL07062015.0028.raw	simsoln.met	.40 DJP	1.00	1.00
29	VFL07062015.0029.raw	simsoln.met	.40 DJP	1.00	1.00
30	VFL07062015.0030.raw	simsoln.met	.40 DJP	1.00	1.00
31	VFL07062015.0031.raw	simsoln.met	.40 DJP	1.00	1.00
32	VFL07062015.0032.raw	simsoln.met	.40 DJP	1.00	1.00
33	VFL07062015.0033.raw	simsoln.met	.40 DJP	1.00	1.00
34	VFL07062015.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL07062015.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
36	VFL07062015.0036.raw	simsoln.met	.40 DJP	1.00	1.00
37	VFL07062015.0037.raw	simsoln.met	.40 ALB	1.00	1.00
38	VFL07062015.0038.raw	simsoln.met	.40 ALB	1.00	1.00
39	VFL07062015.0039.raw	simsoln.met	.40 ALB	1.00	1.00
40	VFL07062015.0040.raw	simsoln.met	.40 ALB	1.00	1.00
41	VFL07062015.0041.raw	simsoln.met	.40 ALB	1.00	1.00
42	VFL07062015.0042.raw	simsoln.met	.40 ALB	1.00	1.00
43	VFL07062015.0043.raw	simsoln.met	.40 ALB	1.00	1.00
44	VFL07062015.0044.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
45	VFL07062015.0045.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
46	VFL07062015.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	VFL07062015.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	VFL07062015.0048.raw	simsoln.met	0.10 RM	1.00	1.00
49	VFL07062015.0049.raw	simsoln.met	0.10 RM	1.00	1.00
50	VFL07062015.0050.raw	simsoln.met	0.10 RM	1.00	1.00
51	VFL07062015.0051.raw	simsoln.met	0.10 RM	1.00	1.00
52	VFL07062015.0052.raw	simsoln.met	0.10 RM	1.00	1.00
53	VFL07062015.0053.raw	simsoln.met	0.10 RM	1.00	1.00
54	VFL07062015.0054.raw	simsoln.met	0.10 RM	1.00	1.00
55	VFL07062015.0055.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
56	VFL07062015.0056.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
57	VFL07062015.0057.raw	simsoln.met	0.10 DP	1.00	1.00
58	VFL07062015.0058.raw	simsoln.met	0.10 DP	1.00	1.00
59	VFL07062015.0059.raw	simsoln.met	0.10 DP	1.00	1.00
60	VFL07062015.0060.raw	simsoln.met	0.10 DP	1.00	1.00
61	VFL07062015.0061.raw	simsoln.met	0.10 DP	1.00	1.00
62	VFL07062015.0062.raw	simsoln.met	0.10 DP	1.00	1.00

DIFFERENT SIM SOL'N LOT; NOT INCLUDED. DS 7/8/15

DATA NOT INCLUDED DUE TO INCORRECT LOT # IN CALIBRATION. DS 7/10/15

ROW 48 AND ABOVE DIFFERENT SIM SOL'N LOT; NOT INCLUDED. DS 7/8/15

7/10/15 NB

15-10-400 ~~416~~ 90 DS 7/10/15

Chrom Perfect Sequence File

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	VFL07062015.0063.raw	simsoln.met	0.10 DP	1.00	1.00
64	VFL07062015.0064.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
65	VFL07062015.0065.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

91

7/10/15 AB

1510-400

File Name: C:\Methods\VFL07062015.CAL
Version: 7

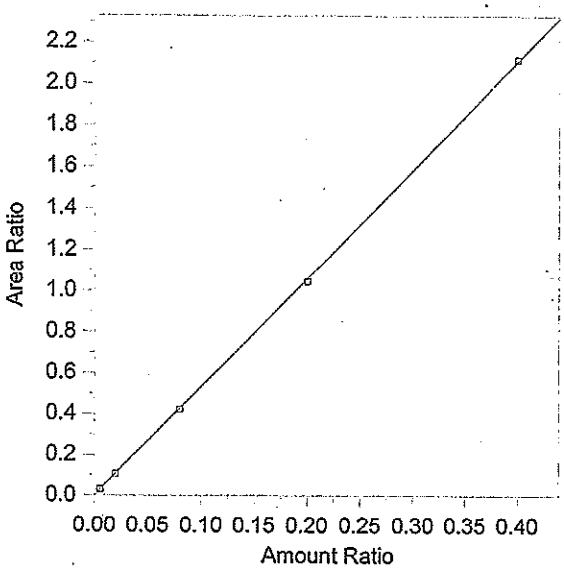
Creator:
Description:
Reason for change:

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 = 5.272377 X + 0

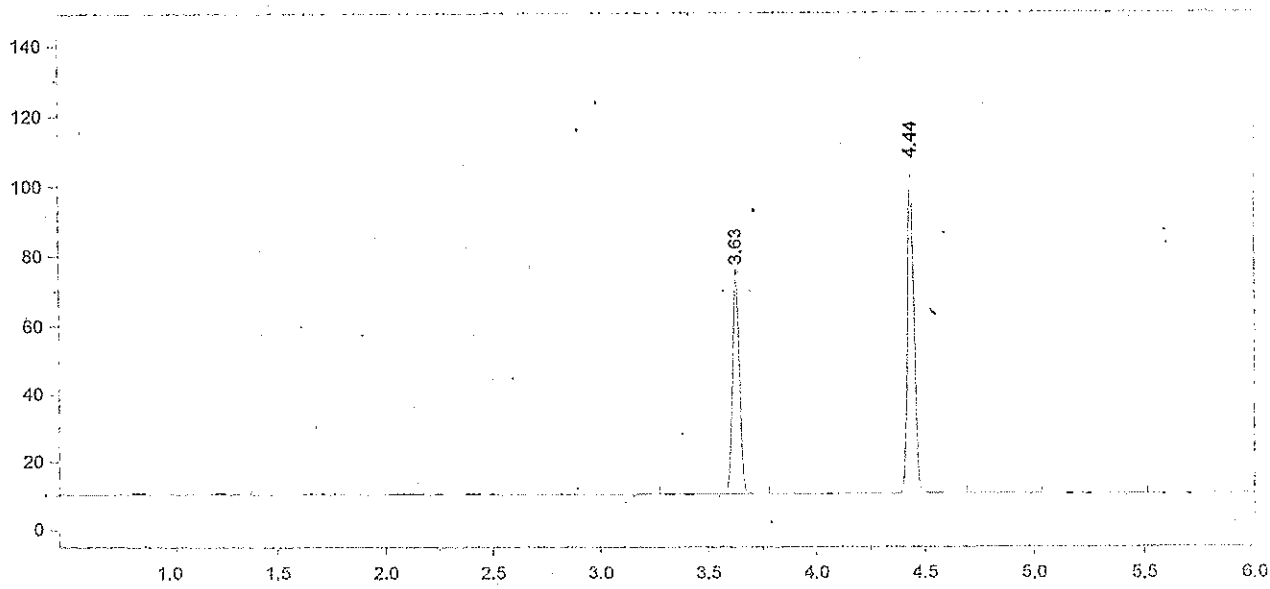
Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998957
Average error:	1.279%
Average CF:	5.213304
RSD:	1.369%

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	4577.314	915462.8	-0.369	0.005	2.626454E-02	C:\Alcohol Data\VFL07062015\VFL07062015.0003.BND	7/6/2015 11:31:52 AM
3	0.02	19760.17	988008.5	-3.214	0.02	0.1020583	C:\Alcohol Data\VFL07062015\VFL07062015.0004.BND	7/6/2015 11:45:04 AM
4	0.08	76909.98	961374.8	-1.028	0.08	0.4174531	C:\Alcohol Data\VFL07062015\VFL07062015.0005.BND	7/6/2015 12:01:33 PM
5	0.2	193129.7	965648.5	-1.386	0.2	1.039856	C:\Alcohol Data\VFL07062015\VFL07062015.0006.BND	7/6/2015 12:18:15 PM
6	0.4	399694.3	999235.8	0.396	0.4	2.117299	C:\Alcohol Data\VFL07062015\VFL07062015.0007.BND	7/6/2015 12:32:14 PM

7/10/15 AS

15-10-400 ~~48~~ 42
07/10/15

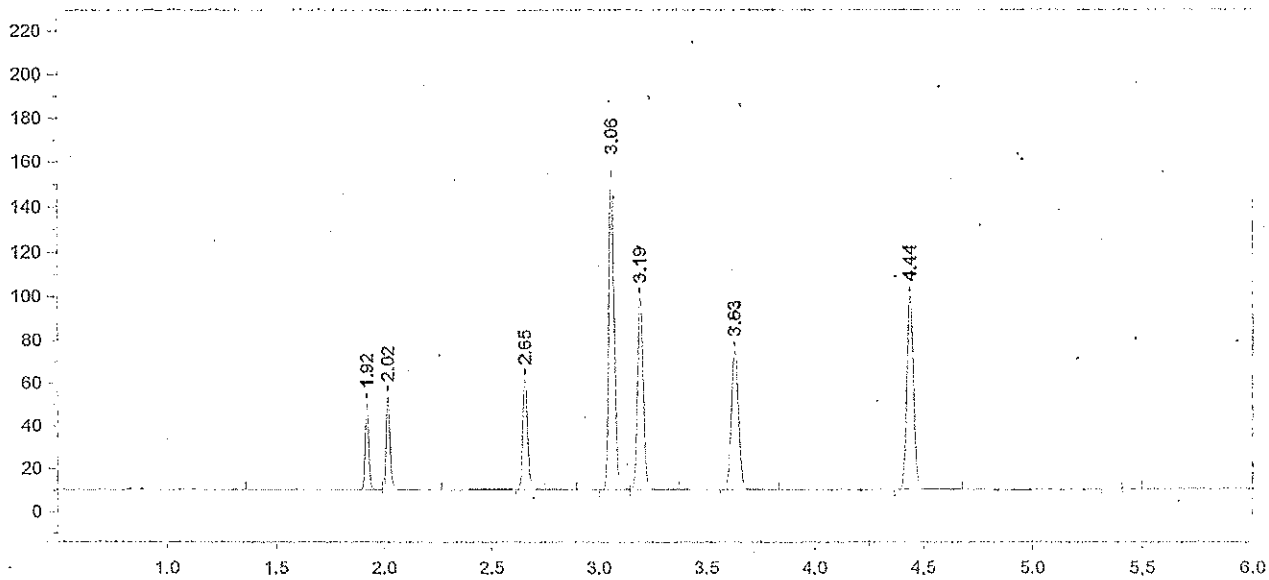


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:04 AM
Bound File Name = VFL07062015.0001.RAW
Sample Name = BLANK
Date Taken = 7/6/2015 11:00:01 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	144232	0.9533
4	4.44	n-Propanol	196681	1.0000

7/10/15 SB 15-10-400 93

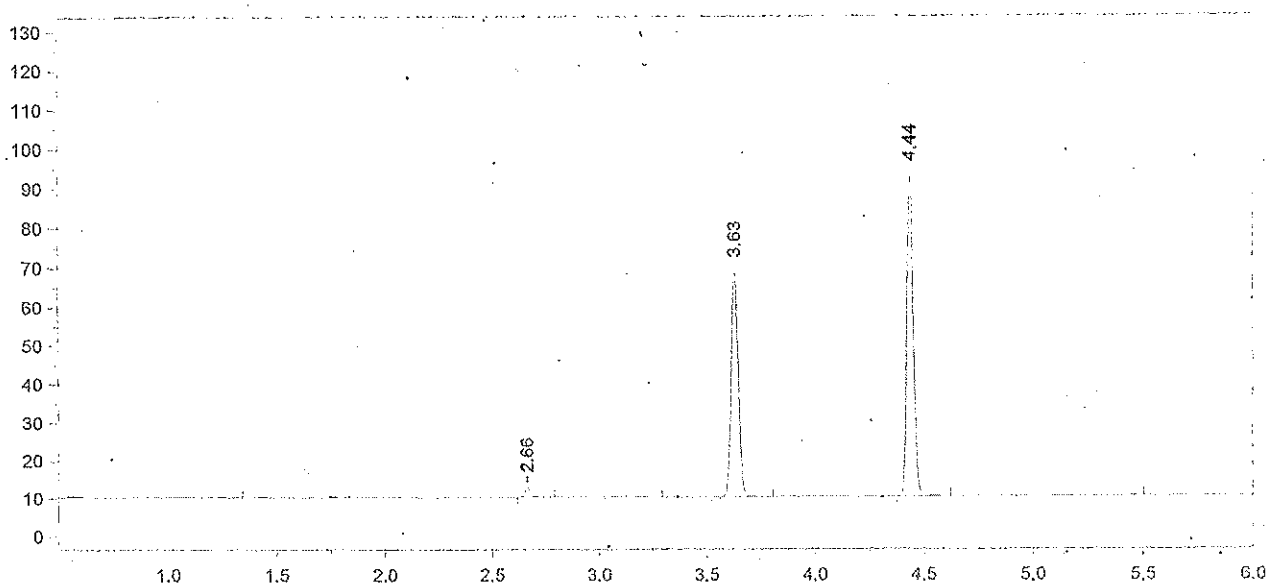


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:09 AM
Bound File Name = VFL07062015.0002.RAW
Sample Name = TMX
Date Taken = 7/6/2015 11:15:12 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	47546	0.0695
3	2.02	Methanol	55100	0.1232
4	2.65	Ethanol	80788	0.0804
5	3.06	Acetone	250985	0.0657
6	3.19	Isopropanol	167407	0.0848
7	3.63	t-Butanol	149163	1.0176
8	4.44	n-Propanol	190553	1.0000

7/10/15 AB 15-10-400 94



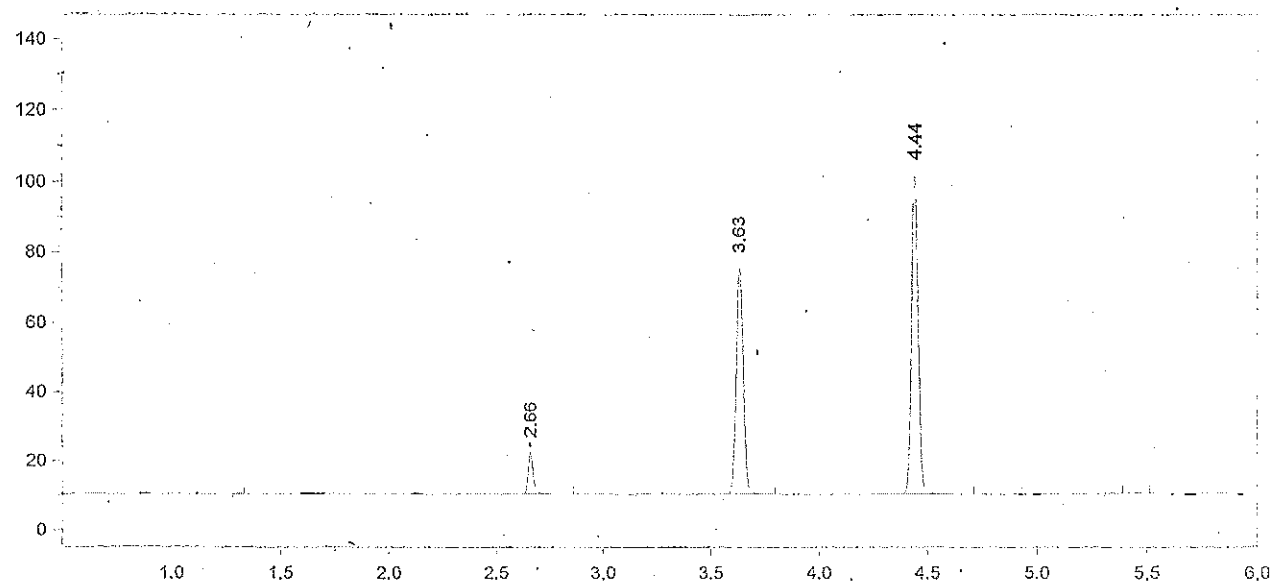
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:15 AM
Bound File Name = VFL07062015.0003.RAW
Sample Name = STD A
Date Taken = 7/6/2015 11:31:46 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	04577	0.0050
5	3.63	t-Butanol	134977	1.0068
6	4.44	n-Propanol	174277	1.0000

7/10/15 SB

15-10-400



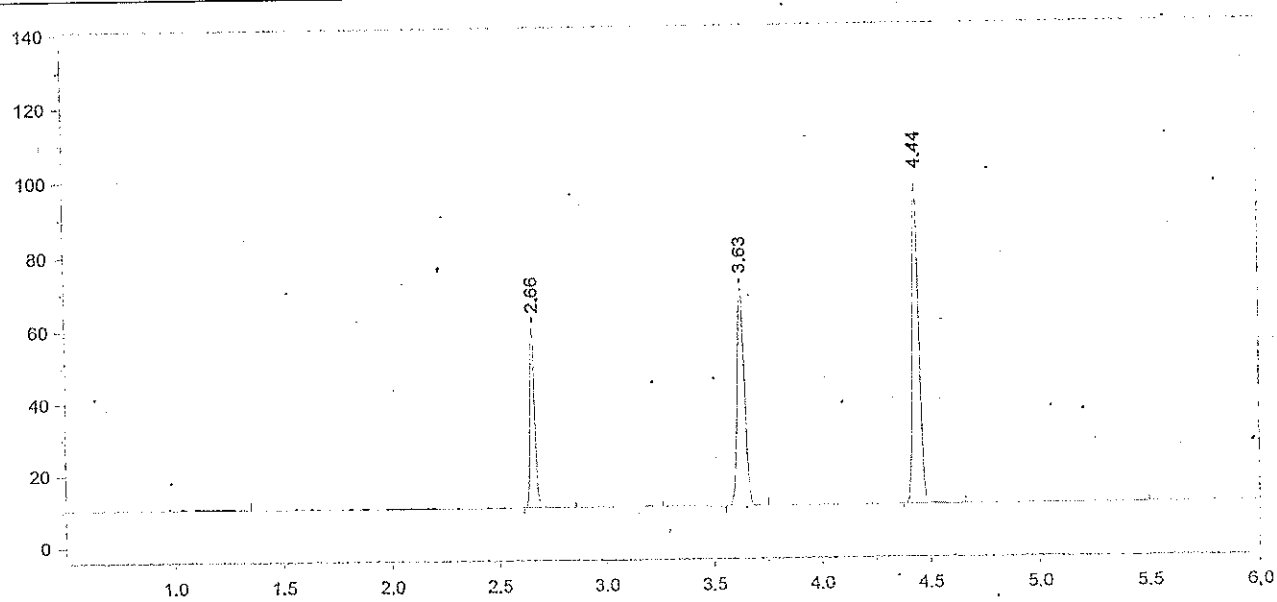
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:23 AM
Bound File Name = VFL07062015.0004.RAW
Sample Name = STD B
Date Taken = 7/6/2015 11:44:56 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	19760	0.0194
4	3.63	t-Butanol	150903	1.0131
5	4.44	n-Propanol	193616	1.0000

7/10/15
AB

1540-400 96 52



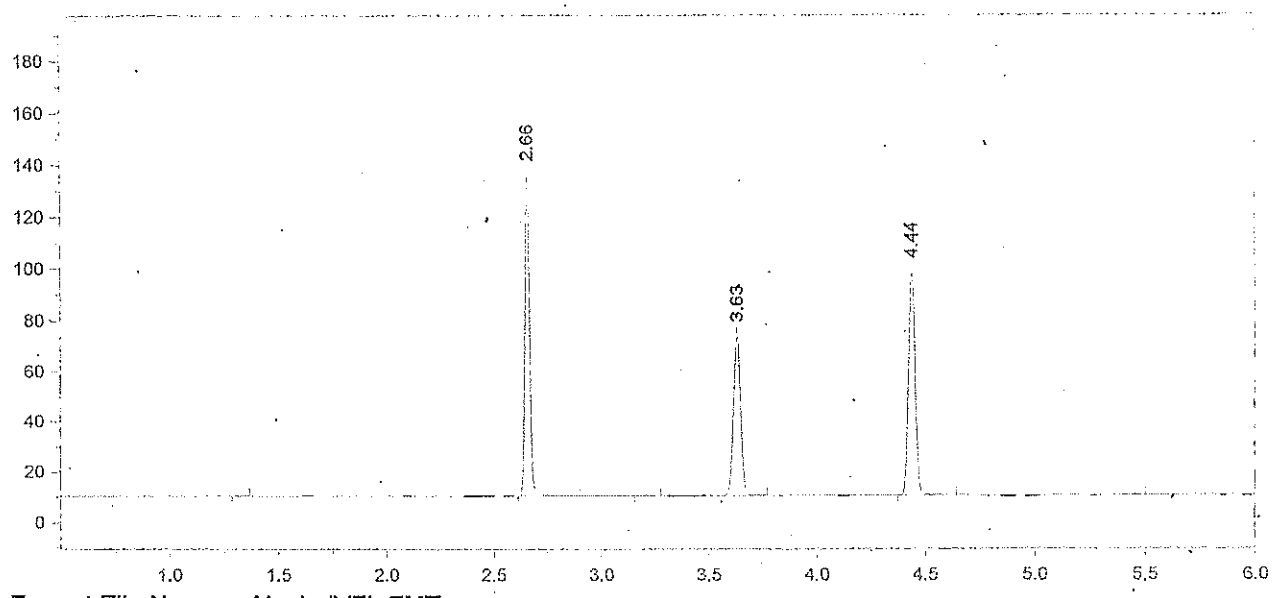
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:29 AM
Bound File Name = VFL07062015.0005.RAW
Sample Name = STD C
Date Taken = 7/6/2015 12:01:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76910	0.0792
4	3.63	t-Butanol	138569	0.9777
5	4.44	n-Propanol	184236	1.0000

7/10/15 AB

15-10-400 AB 08/10/15

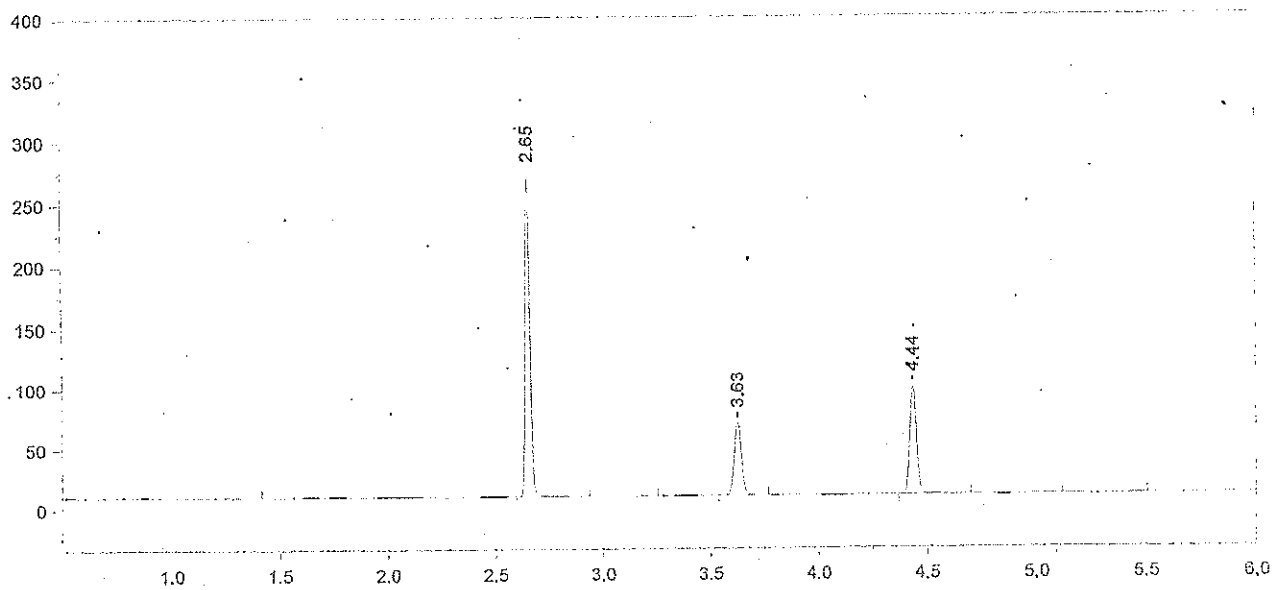


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:36 AM
Bound File Name = VFL07062015.0006.RAW
Sample Name = STD D
Date Taken = 7/6/2015 12:18:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	193130	0.1972
4	3.63	t-Butanol	145612	1.0192
5	4.44	n-Propanol	185727	1.0000

1/10/15 AB
15-10-400 ~~054~~ 08
07/10/15

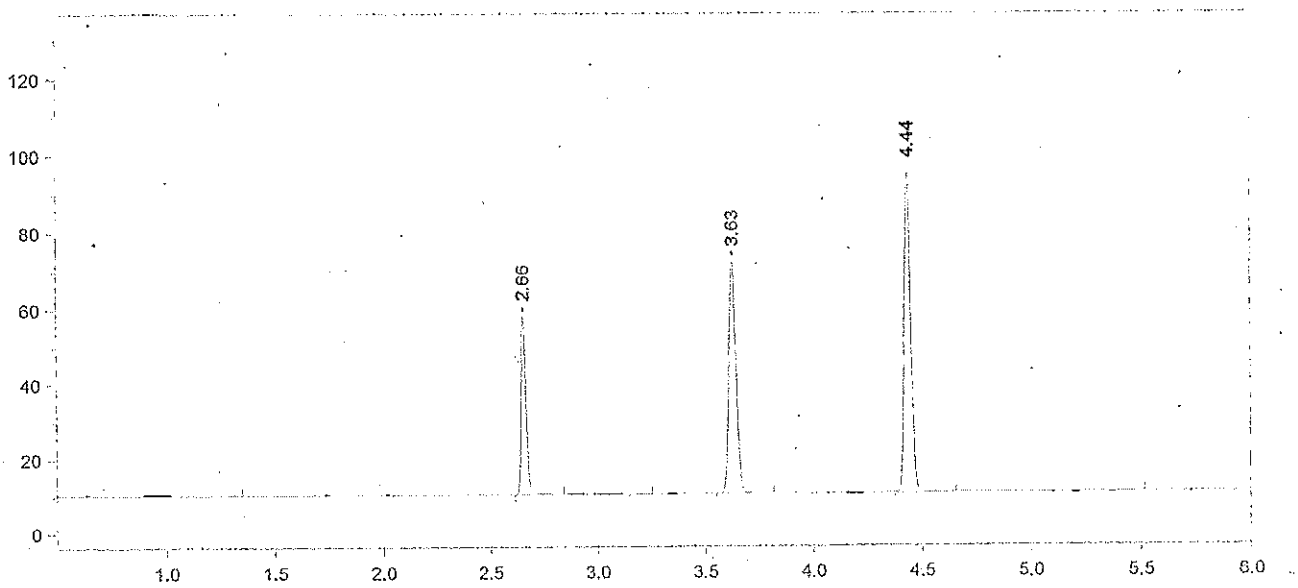


Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 9:34:41 AM
Bound File Name = VFL07062015.0007.RAW
Sample Name = STD E
Date Taken = 7/6/2015 12:32:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	399694	0.4016
4	3.63	t-Butanol	140232	0.9656
5	4.44	n-Propanol	188776	1.0000

7/10/15 AB
15-10-400



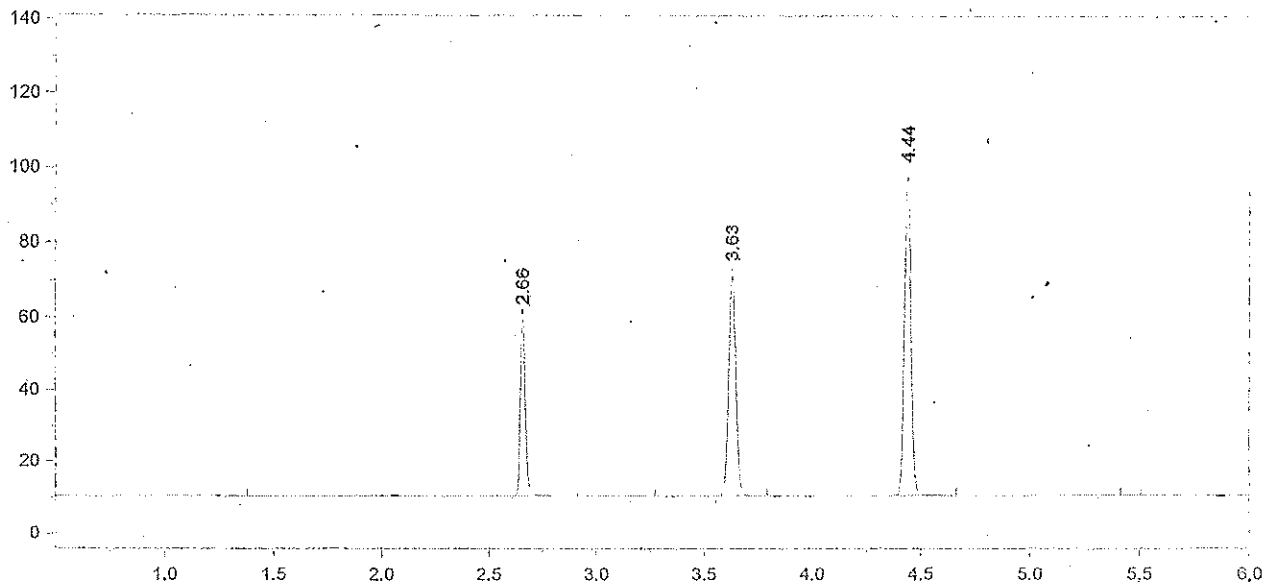
Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 12:49:37 PM
Bound File Name = VFL07062015.0008.RAW
Sample Name = AQ
Date Taken = 7/6/2015 12:49:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	73640	0.0779
4	3.63	t-Butanol	142342	1.0323
5	4.44	n-Propanol	179245	1.0000

7/10/15 AB

15-10-400 100



Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 1:03:37 PM
Bound File Name = VFL07062015.0009.RAW
Sample Name = AQ
Date Taken = 7/6/2015 1:03:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76887	0.0787
4	3.63	t-Butanol	139799	0.9805
5	4.44	n-Propanol	185338	1.0000

AQ MEAN = 0.0783 % ETHANOL

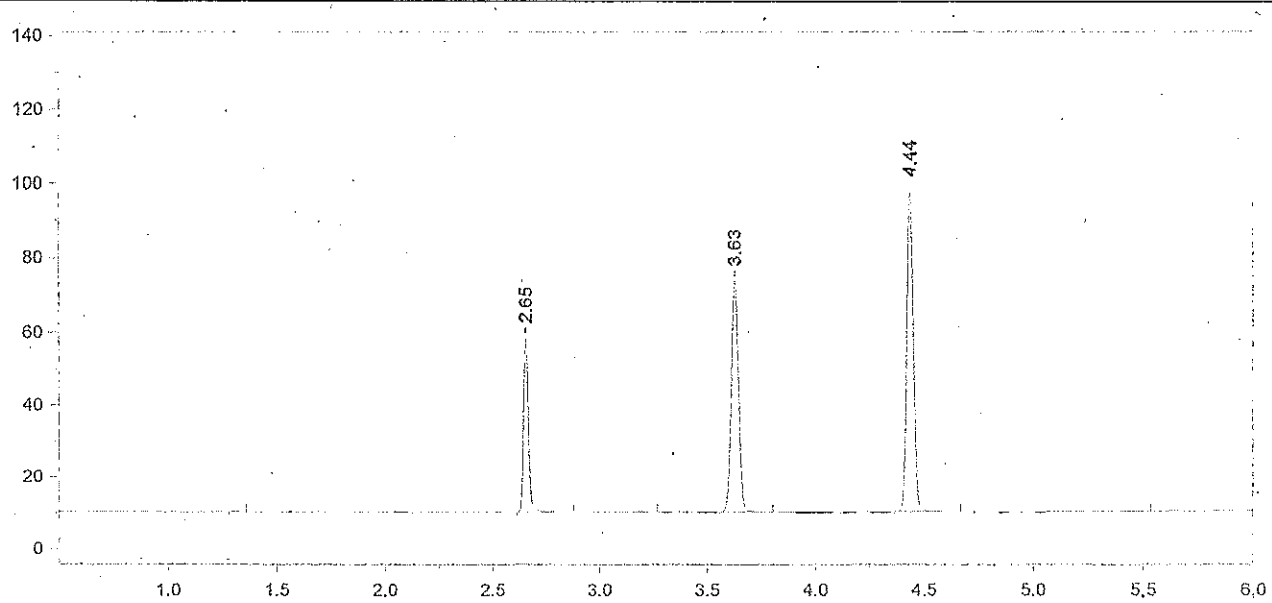
±5% : 0.0744 – 0.0822

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

JJ 7/8/15

7/10/15
AB

15-10-400 ~~0457~~
8/7/2015



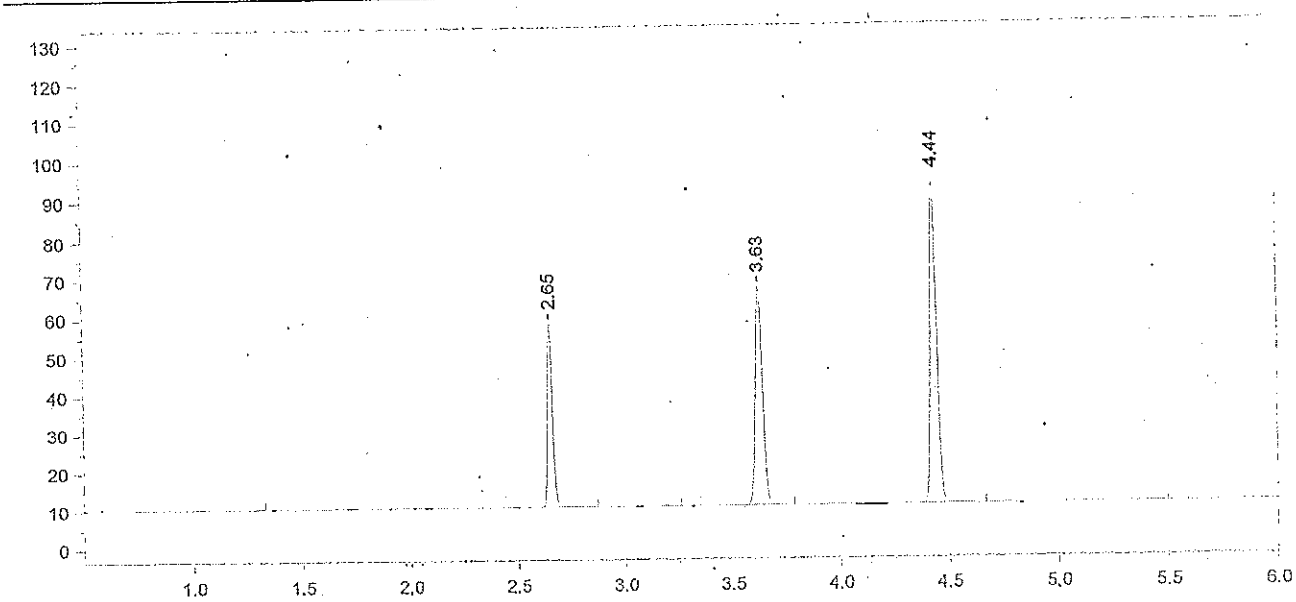
Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 1:21:02 PM
Bound File Name = VFL07062015.0010.RAW
Sample Name = CCS
Date Taken = 7/6/2015 1:20:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	75092	0.0771
4	3.63	t-Butanol	146322	1.0295
5	4.44	n-Propanol	184756	1.0000

7/10/15
AB

102
15-10-400



Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 1:35:17 PM
Bound File Name = VFL07062015.0011.RAW
Sample Name = CCS
Date Taken = 7/6/2015 1:35:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74115	0.0802
4	3.63	t-Butanol	130457	0.9678
5	4.44	n-Propanol	175226	1.0000

CCS MEAN: 0.0786 % ETHANOL

±5%: 0.0747 - 0.0825

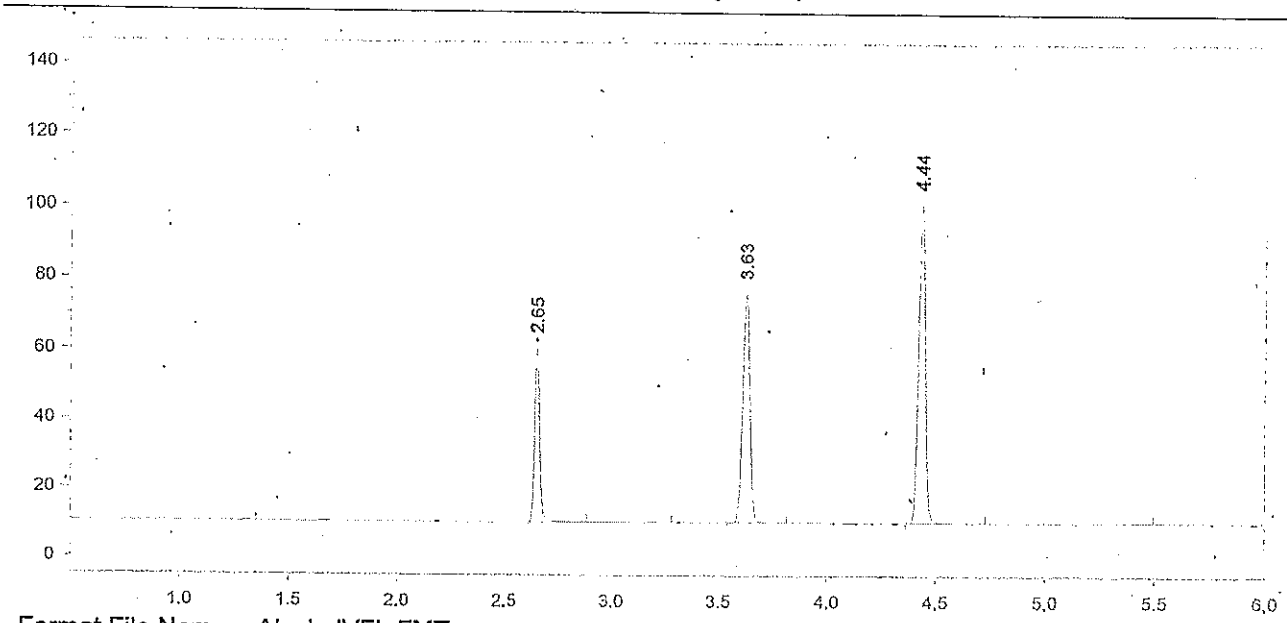
RECOVERY: $\frac{0.078}{0.08}$ = 97.5%

7/8/15

7/10/15

15-10-400

103

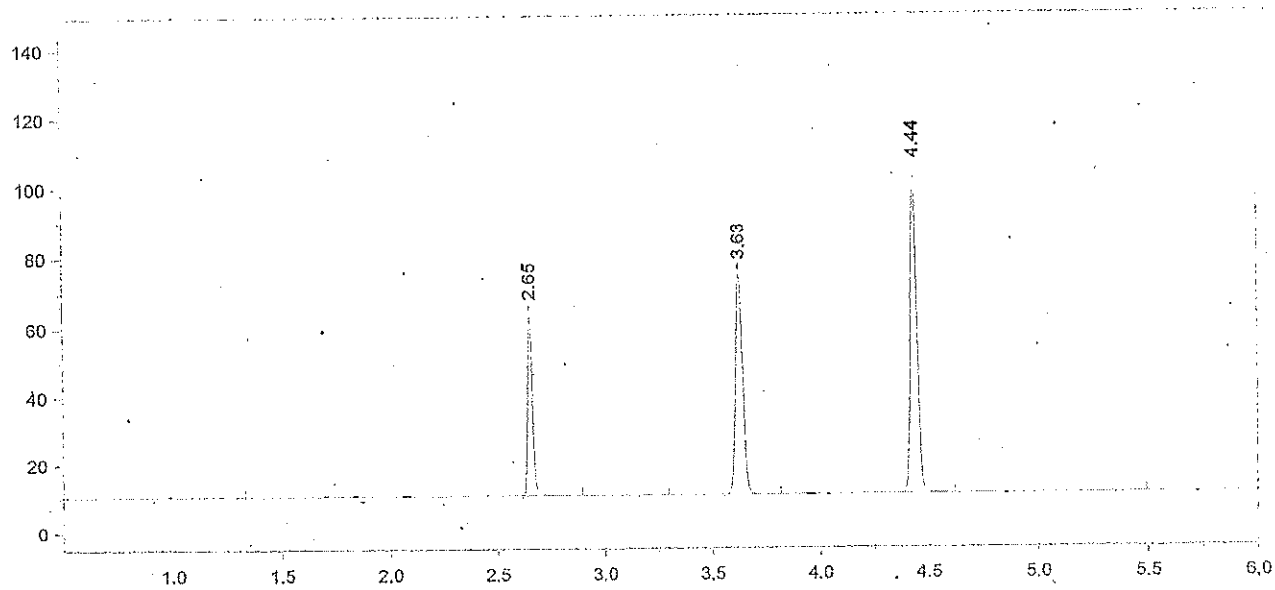


Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 4:27:55 PM
Bound File Name = VFL07062015.0022.RAW
Sample Name = CCS
Date Taken = 7/6/2015 4:27:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	78212	0.0767
4	3.63	t-Butanol	151763	1.0204
5	4.44	n-Propanol	193334	1.0000

7/10/15
AB
1570-400
0.60
104



Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 4:43:15 PM
Bound File Name = VFL07062015.0023.RAW
Sample Name = CCS
Date Taken = 7/6/2015 4:43:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82308	0.0798
4	3.63	t-Butanol	148051	0.9837
5	4.44	n-Propanol	195652	1.0000

CCS mean : 0.0782 % ethanol

±5% : 0.0743 - 0.0821

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

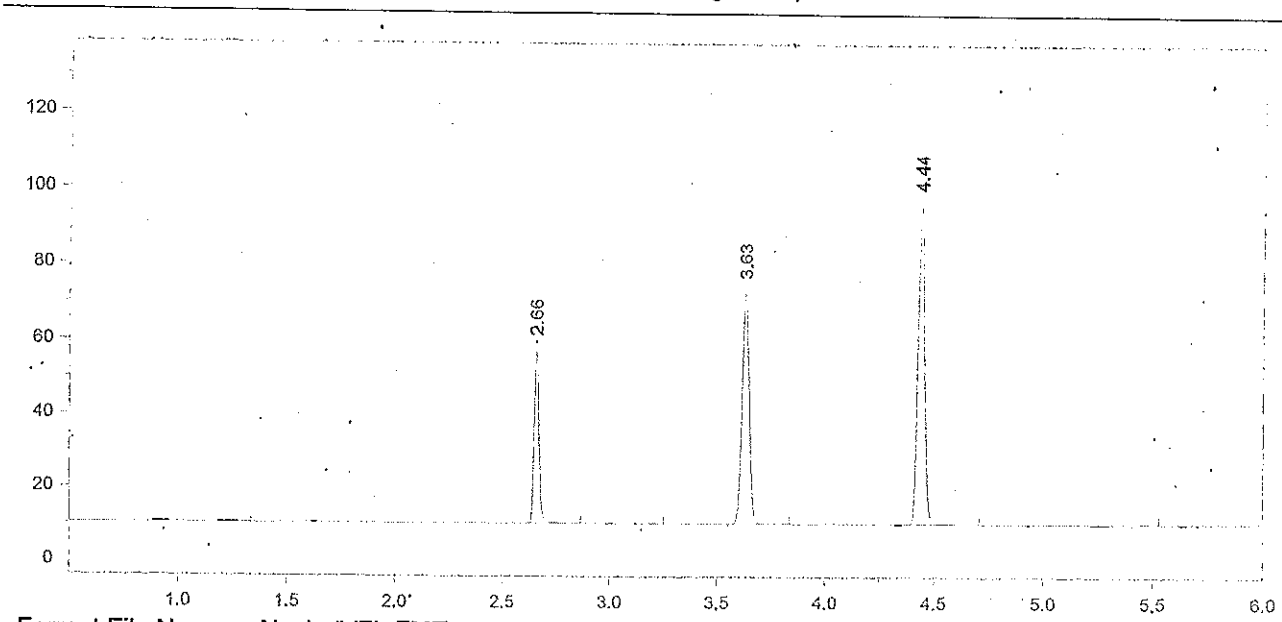
DG 7/8/15

105

7/10/15 AB

15-10400 0.67

DG 8/10/15



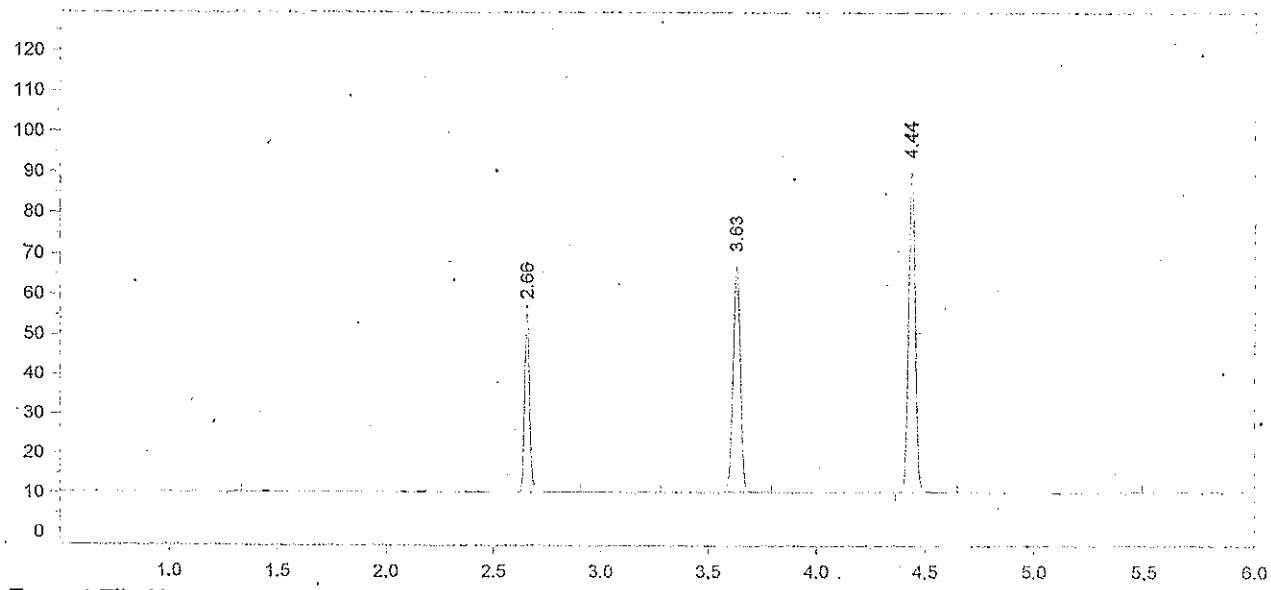
Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 7:36:32 PM
Bound File Name = VFL07062015.0034.RAW
Sample Name = CCS
Date Taken = 7/6/2015 7:36:24 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	72827	0.0764
4	3.63	t-Butanol	144274	1.0378
5	4.44	n-Propanol	180715	1.0000

7/10/15 AS

15-10-400 ~~062~~ 106 2/7/16



Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 7:51:25 PM
Bound File Name = VFL07062015.0035.RAW
Sample Name = CCS
Date Taken = 7/6/2015 7:51:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	70812	0.0792
4	3.63	t-Butanol	130828	1.0034
5	4.44	n-Propanol	169498	1.0000

CCS mean : 0.0778

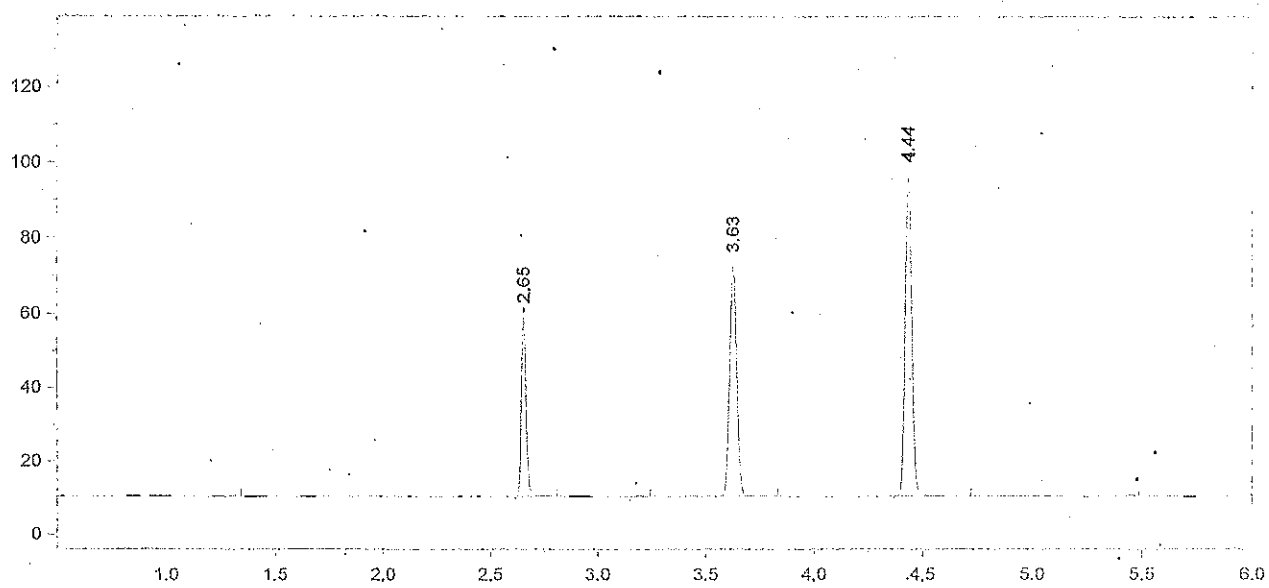
±5% : 0.0739 – 0.0817

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

DS 7/8/15

7/10/15
AB

15-10-400 1.63-107
DS Ethanol



Format File Name = AlcoholVFL.FMT

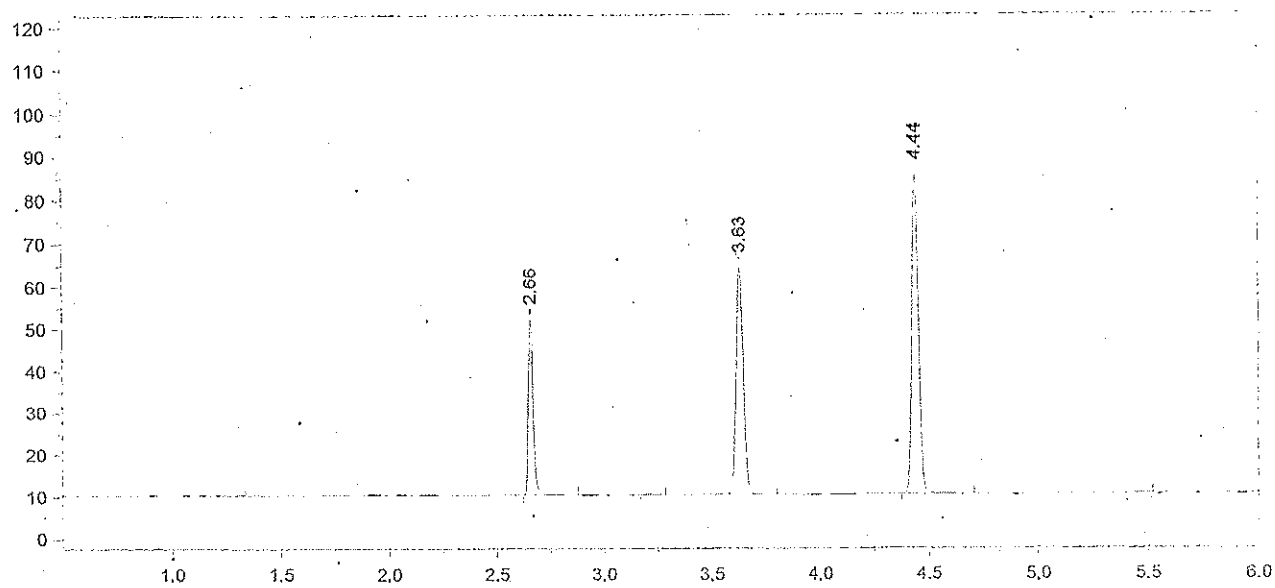
Today's Date = 7/6/2015
Today's Time = 10:11:58 PM
Bound File Name = VFL07062015.0044.RAW
Sample Name = CCS
Date Taken = 7/6/2015 10:11:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74827	0.0779
4	3.63	t-Butanol	142756	1.0180
5	4.44	n-Propanol	182281	1.0000

15-10-400 P. ~~64~~ 108

7/10/15

07/10/15



Format File Name = AlcoholVFL.FMT

Today's Date = 7/6/2015
Today's Time = 10:27:19 PM
Bound File Name = VFL07062015.0045.RAW
Sample Name = CCS
Date Taken = 7/6/2015 10:27:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	65323	0.0777
4	3.63	t-Butanol	124462	1.0145
5	4.44	n-Propanol	159481	1.0000

CCS MEAN : 0.0778 % ETHANOL

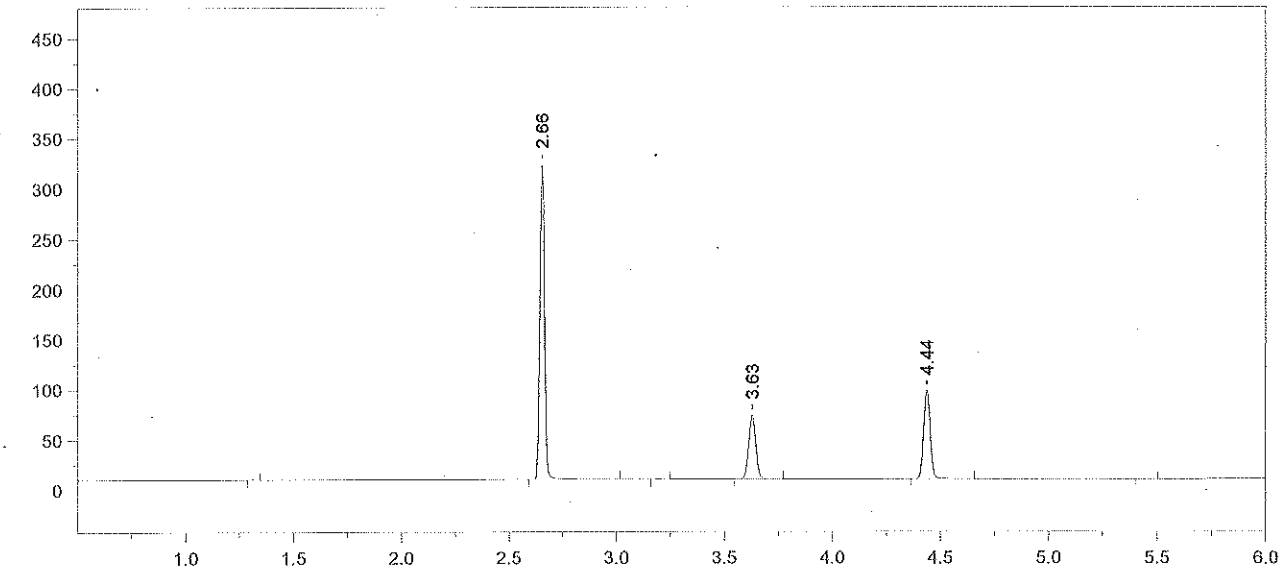
±5% . 0.0739 - 0.0817

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

7/8/15

7/10/15

15-10-400 p.65109



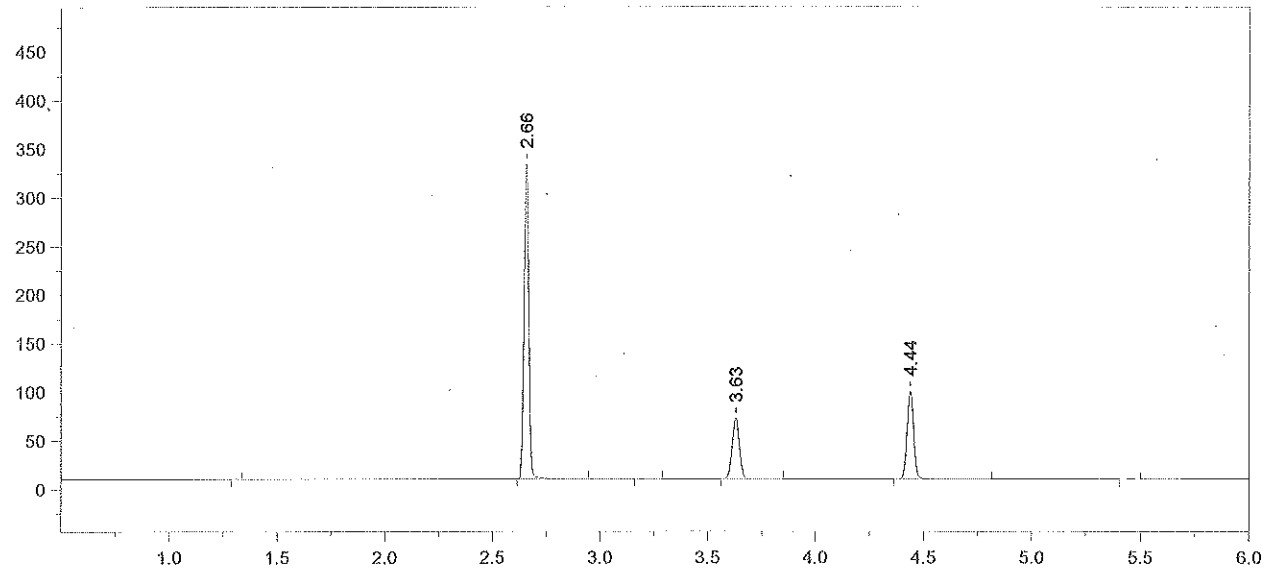
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 6:02:12 PM
Bound File Name = VFL07062015.0028.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 6:02:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	480321	0.4875	0.3979
4	3.63	t-Butanol	147216	1.0241	0.8359
5	4.44	n-Propanol	186868	1.0000	0.8162

7/10/15

15-10-400 ~~P66~~ 110

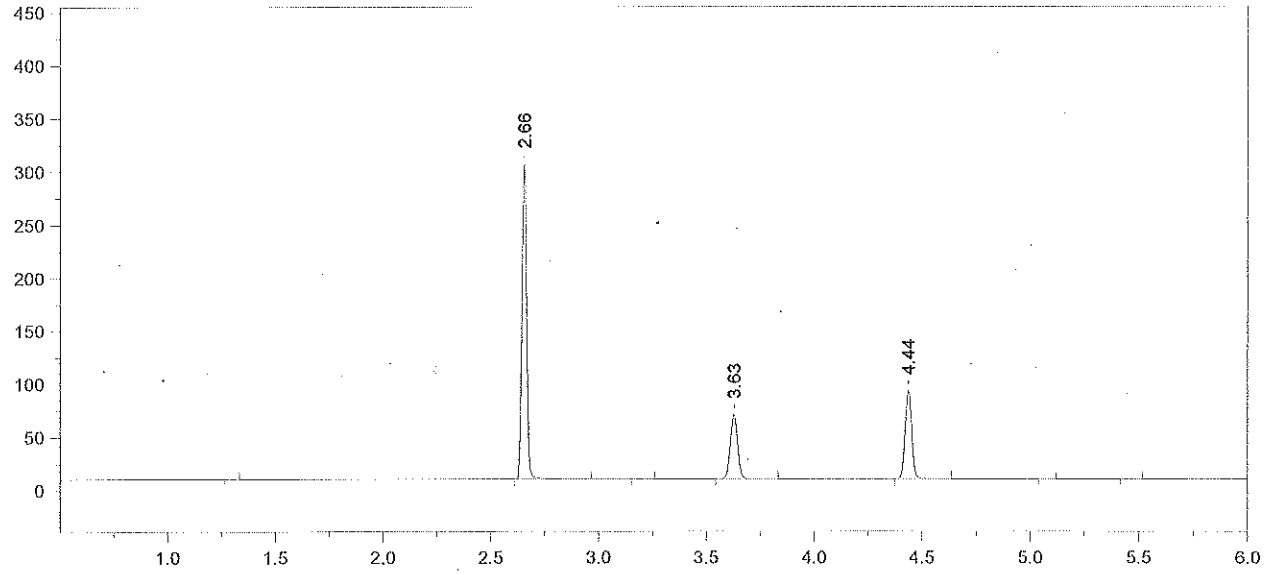


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 6:17:05 PM
Bound File Name = VFL07062015.0029.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 6:16:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	501202	0.4942	0.4033
4	3.63	t-Butanol	145374	0.9824	0.8018
5	4.44	n-Propanol	192368	1.0000	0.8162

7/10/15 AB
15-10-400 p. ~~67~~ 111
DR 087/100

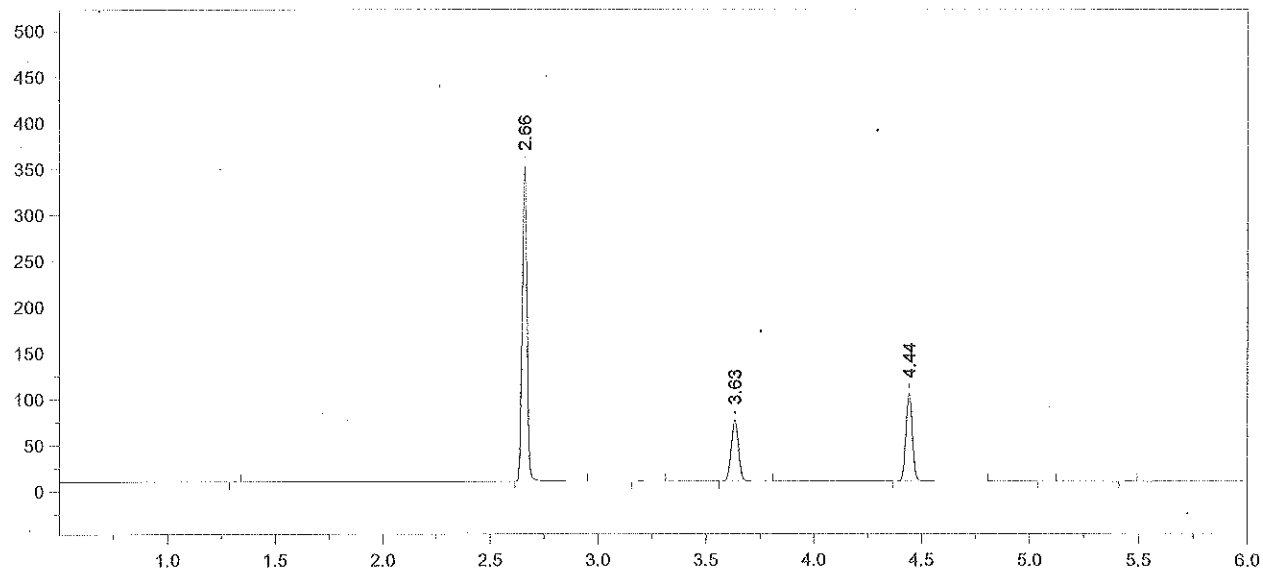


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 6:33:40 PM
Bound File Name = VFL07062015.0030.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 6:33:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	452586	0.4874	0.3978
4	3.63	t-Butanol	139968	1.0330	0.8431
5	4.44	n-Propanol	176135	1.0000	0.8162

7/10/15 AB
15-10-400 112

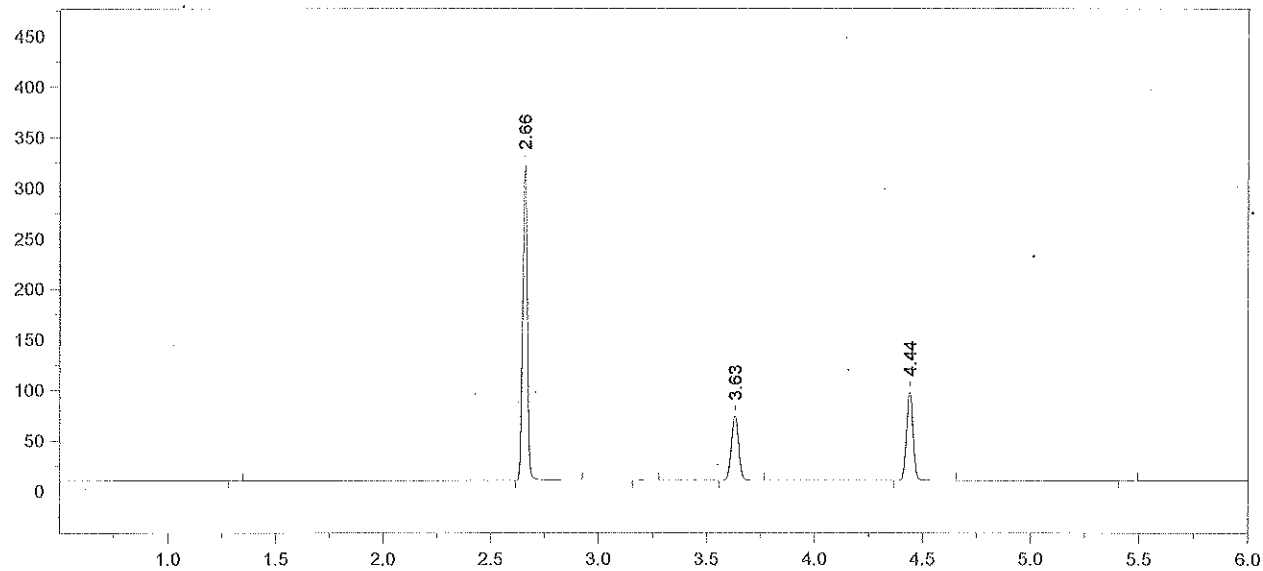


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 6:46:50 PM
Bound File Name = VFL07062015.0031.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 6:46:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	522953	0.4896	0.3996
4	3.63	t-Butanol	152359	0.9775	0.7979
5	4.44	n-Propanol	202603	1.0000	0.8162

7/10/15
1540-400 p. ~~69~~ 113
7/10/15



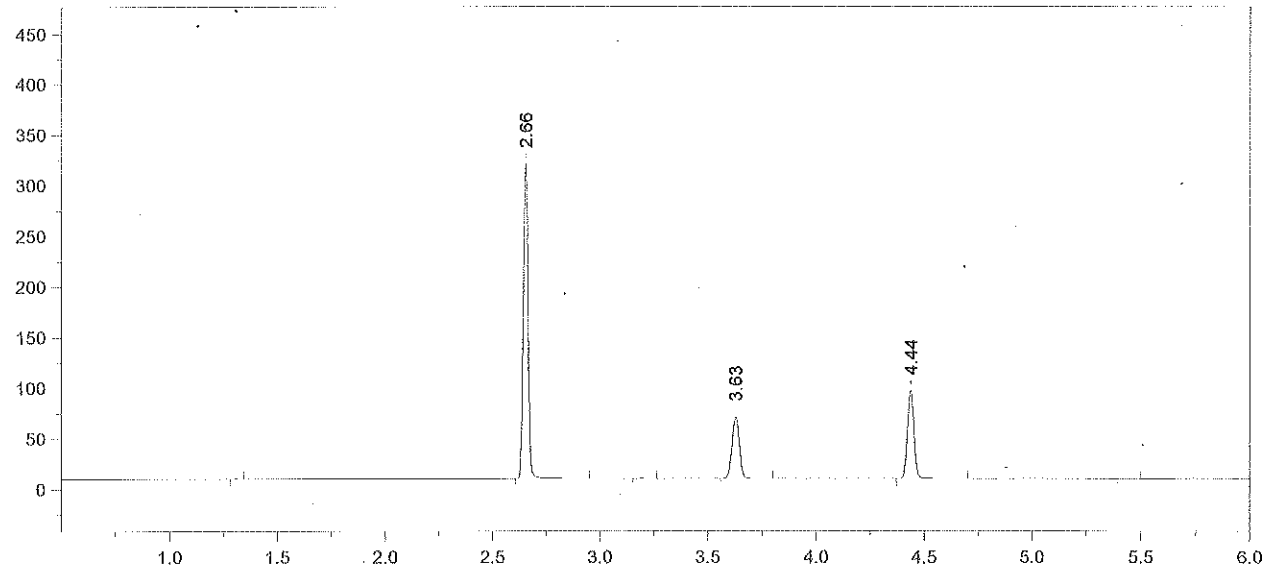
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015 Today's Time = 7:05:01 PM
Bound File Name = VFL07062015.0032.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 7:04:57 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	476673	0.4865	0.3971
4	3.63	t-Butanol	147484	1.0316	0.8420
5	4.44	n-Propanol	185837	1.0000	0.8162

7/10/15 AB

15-60-400 ATO 114 8/7/2015

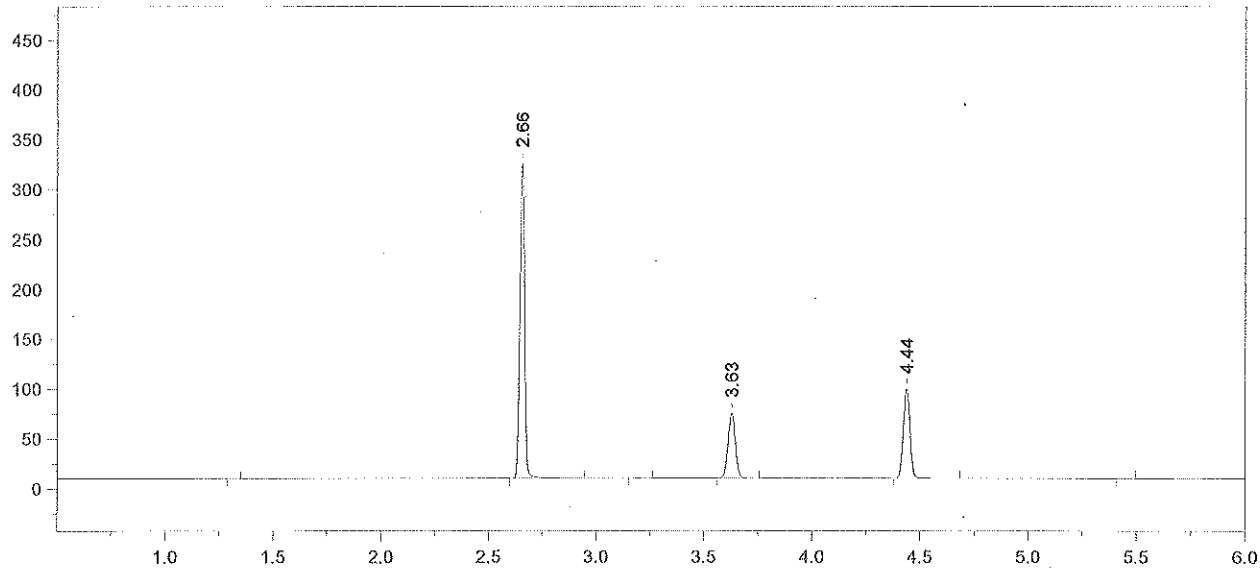


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 7:19:11 PM
Bound File Name = VFL07062015.0033.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 7:19:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	479559	0.4923	0.4019
4	3.63	t-Butanol	141350	0.9946	0.8118
5	4.44	n-Propanol	184742	1.0000	0.8162

115
7/10/15
15-10-400 ~~0.71~~ 0.87/1.0

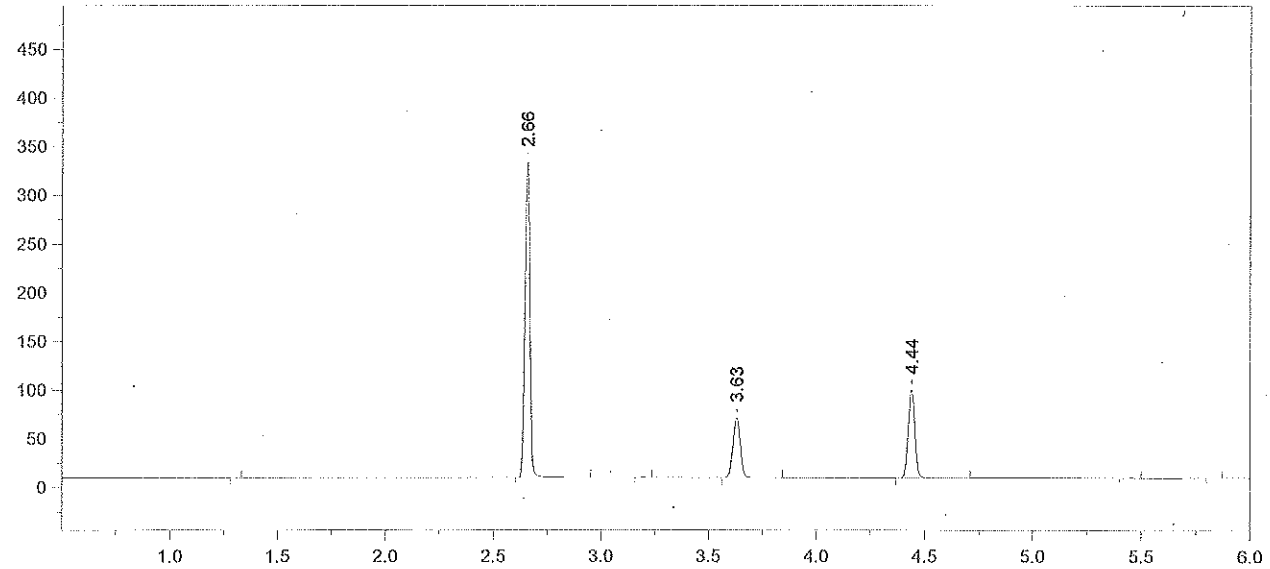


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 8:07:57 PM
Bound File Name = VFL07062015.0036.RAW
Sample Name = .40 DJP
Date Taken = 7/6/2015 8:07:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	483292	0.4822	0.3935
4	3.63	t-Butanol	151173	1.0337	0.8437
5	4.44	n-Propanol	190108	1.0000	0.8162

7/10/15
15-10-400
1/6

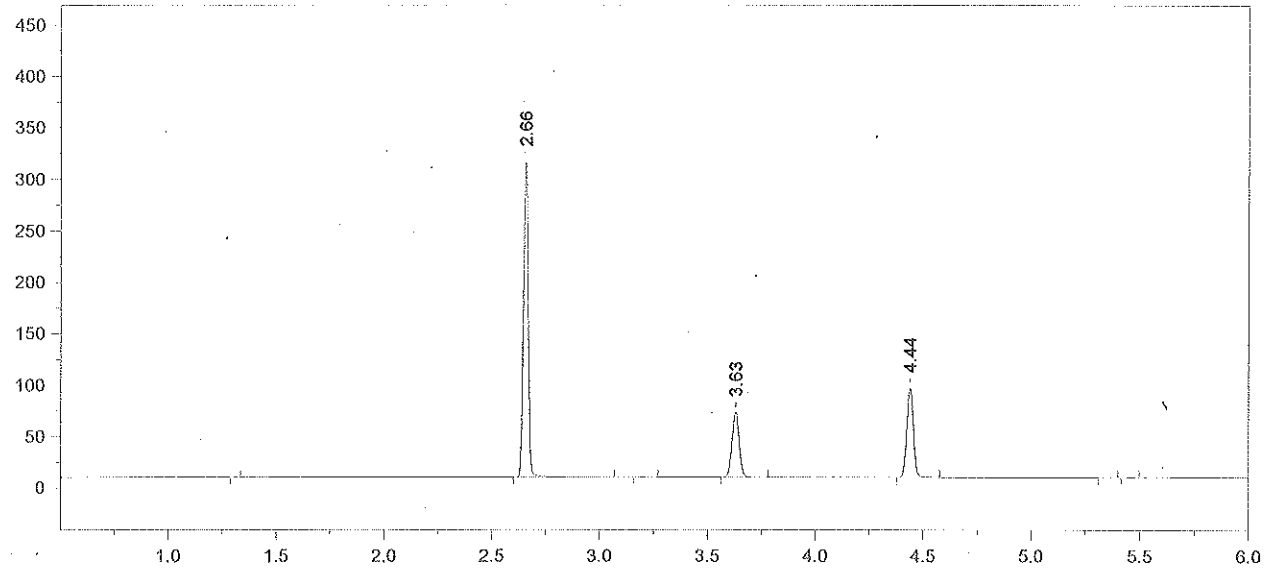


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015 Today's Time = 8:21:56 PM
Bound File Name = VFL07062015.0037.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 8:21:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	502253	0.4972	0.4058
4	3.63	t-Butanol	142991	0.9702	0.7919
5	4.44	n-Propanol	191579	1.0000	0.8162

7/10/15 AB 15-10-400 p 117 ~~73~~ 7/10/15



Format File Name = simsolnVFL.met.FMT

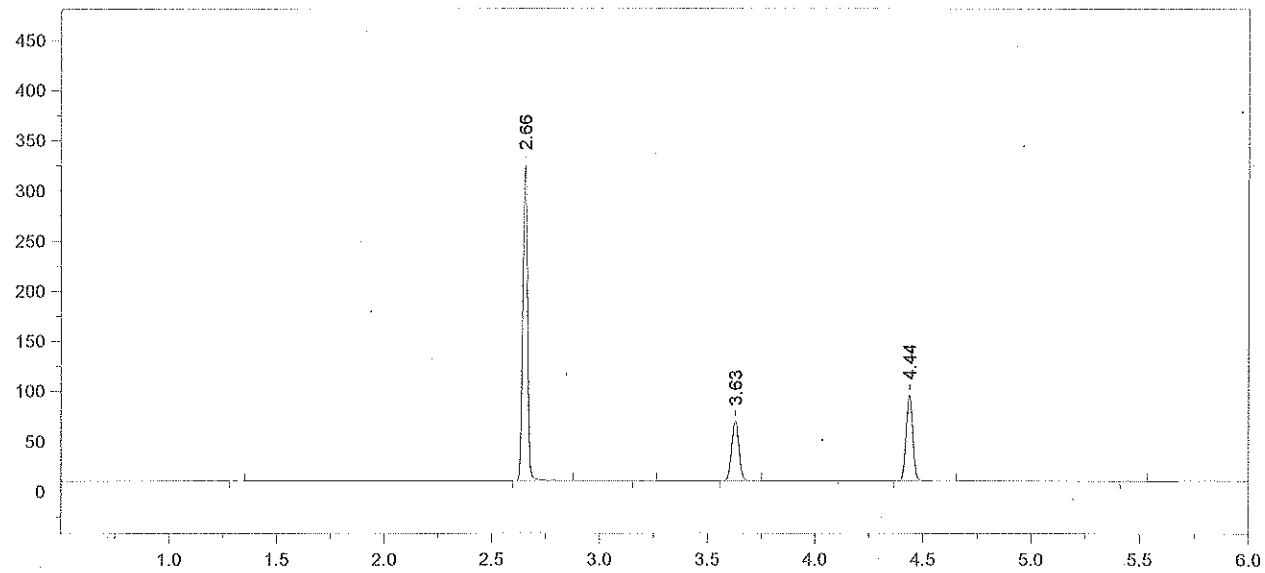
Today's Date = 7/6/2015 Today's Time = 8:39:24 PM
Bound File Name = VFL07062015.0038.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 8:39:15 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	474481	0.4928	0.4022
4	3.63	t-Butanol	145942	1.0389	0.8479
5	4.44	n-Propanol	182612	1.0000	0.8162

7/10/15

17-10-400 p. ~~74~~ 118

7/10/15

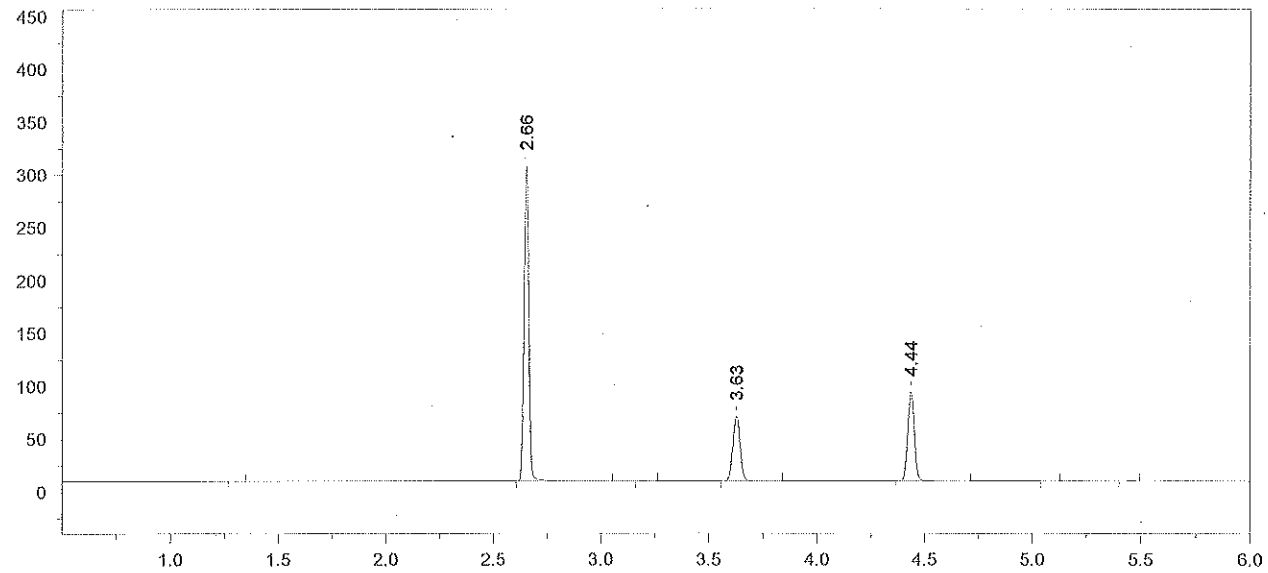


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015 Today's Time = 8:53:49 PM
Bound File Name = VFL07062015.0039.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 8:53:38 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	481674	0.5029	0.4105
4	3.63	t-Butanol	137789	0.9860	0.8048
5	4.44	n-Propanol	181655	1.0000	0.8162

7/10/15 AS 15-10-400 p. ~~75~~ 119



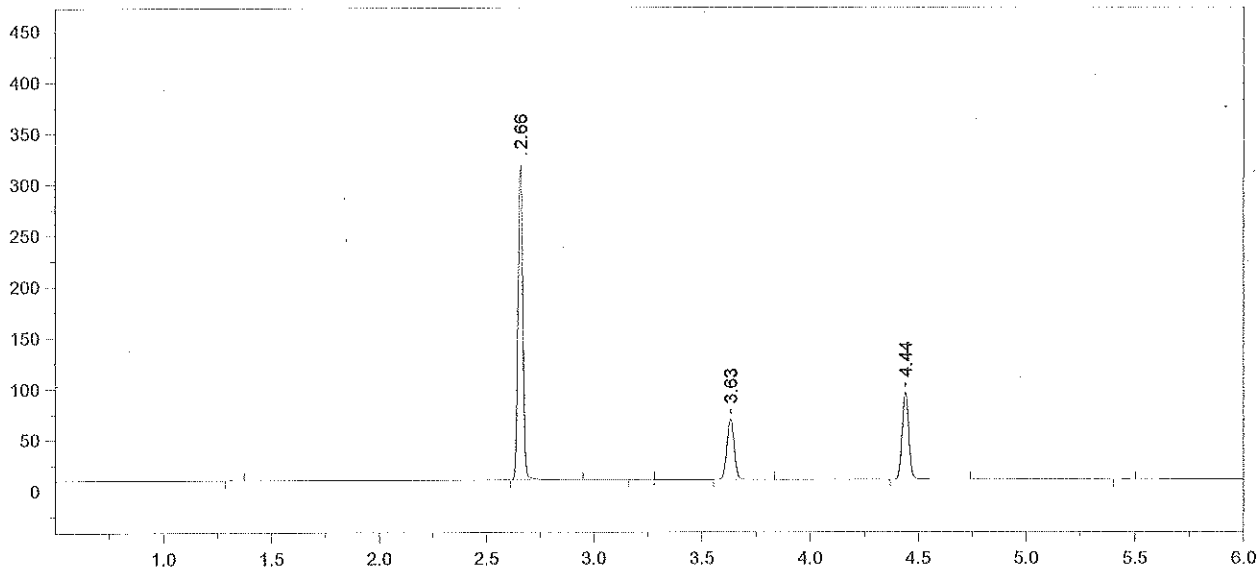
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015 Today's Time = 9:10:48 PM
Bound File Name = VFL07062015.0040.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 9:10:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	459509	0.4874	0.3978
4	3.63	t-Butanol	142506	1.0360	0.8455
5	4.44	n-Propanol	178817	1.0000	0.8162

7/10/15

15-10-400 ~~0.86~~ 120 ~~0.87~~ 1.0



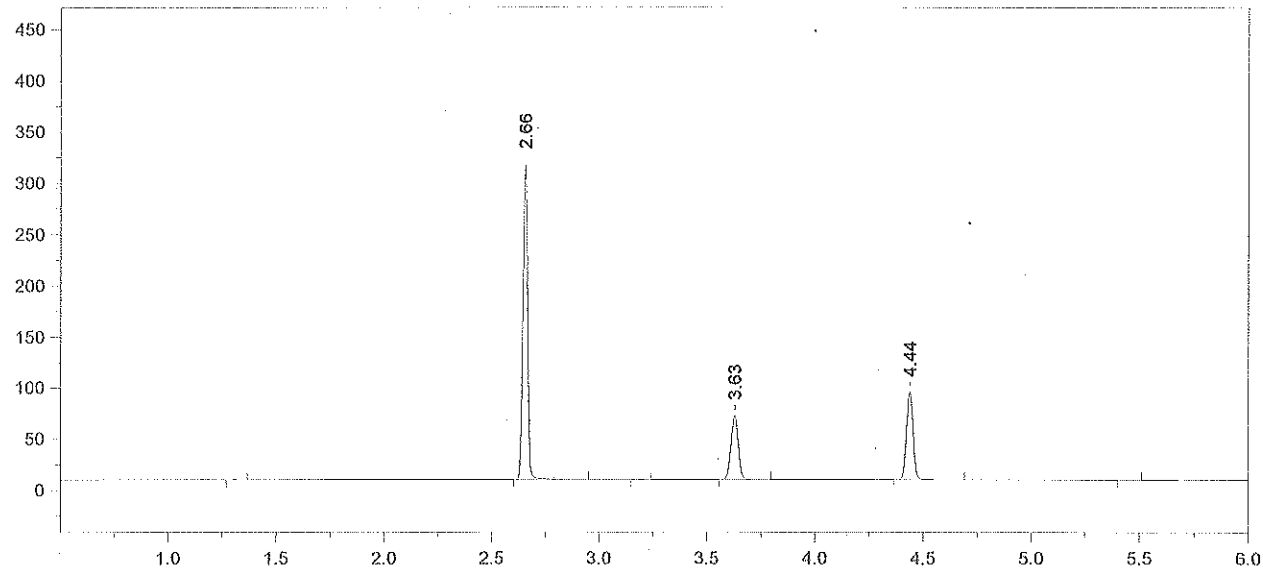
Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015
Today's Time = 9:24:54 PM
Bound File Name = VFL07062015.0041.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 9:24:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	474344	0.5000	0.4081
4	3.63	t-Butanol	136985	0.9896	0.8077
5	4.44	n-Propanol	179944	1.0000	0.8162

7/10/15 AB

15-10-400 p. 77 121

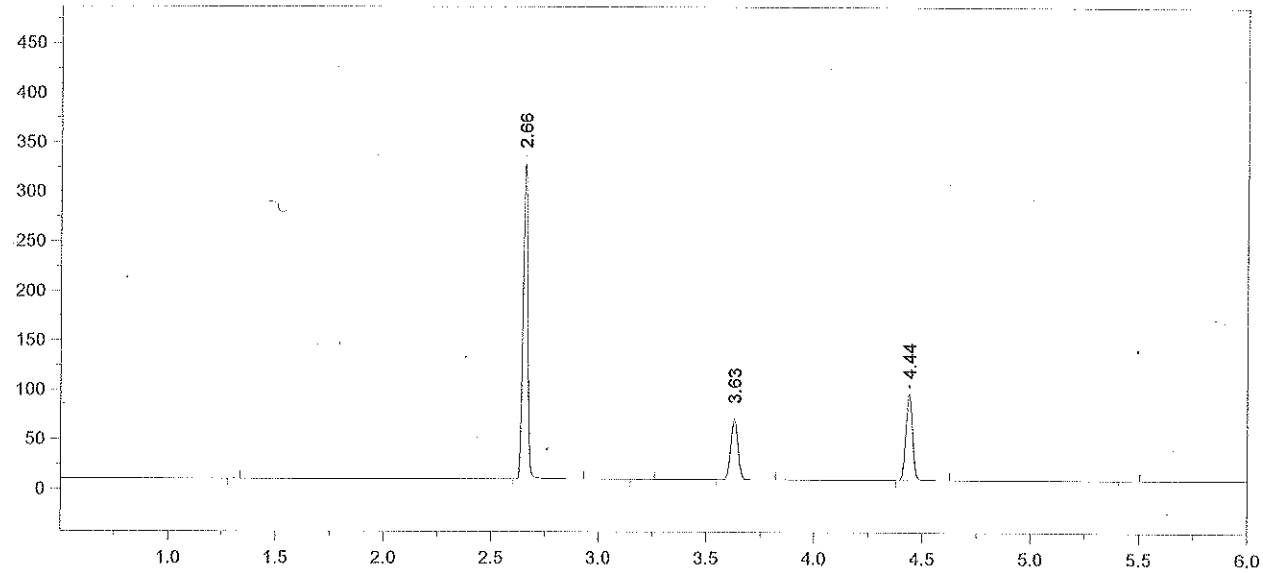


Format File Name = simsolnVFL.met.FMT

Today's Date = 7/6/2015 Today's Time = 9:42:11 PM
Bound File Name = VFL07062015.0042.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 9:42:07 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	470824	0.4903	0.4002
4	3.63	t-Butanol	144952	1.0345	0.8444
5	4.44	n-Propanol	182143	1.0000	0.8162

7/10/15 NB 122
15-10-400 p78



Format File Name = simsolnVFL.met.FMT

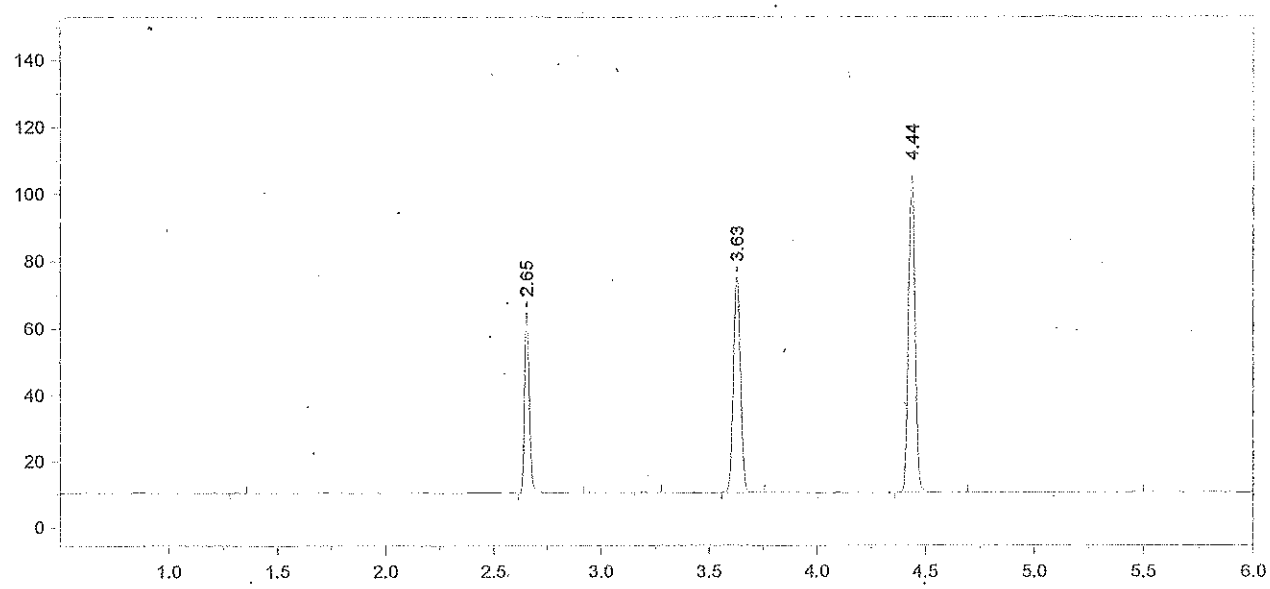
Today's Date = 7/6/2015 Today's Time = 9:55:29 PM
Bound File Name = VFL07062015.0043.RAW
Sample Name = .40 ALB
Date Taken = 7/6/2015 9:55:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL07062015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	487222	0.4989	0.4072
4	3.63	t-Butanol	141134	0.9904	0.8084
5	4.44	n-Propanol	185241	1.0000	0.8162

123 of 123

7/10/15

15-10-400



Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 10:16:11 AM
Bound File Name = VFL07062015.0046.RAW
Sample Name = CCS
Date Taken = 7/7/2015 10:16:06 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85346	0.0799
4	3.63	t-Butanol	149196	0.9570
5	4.44	n-Propanol	202650	1.0000

CCS MEAN: 0.0787 % ETHANOL

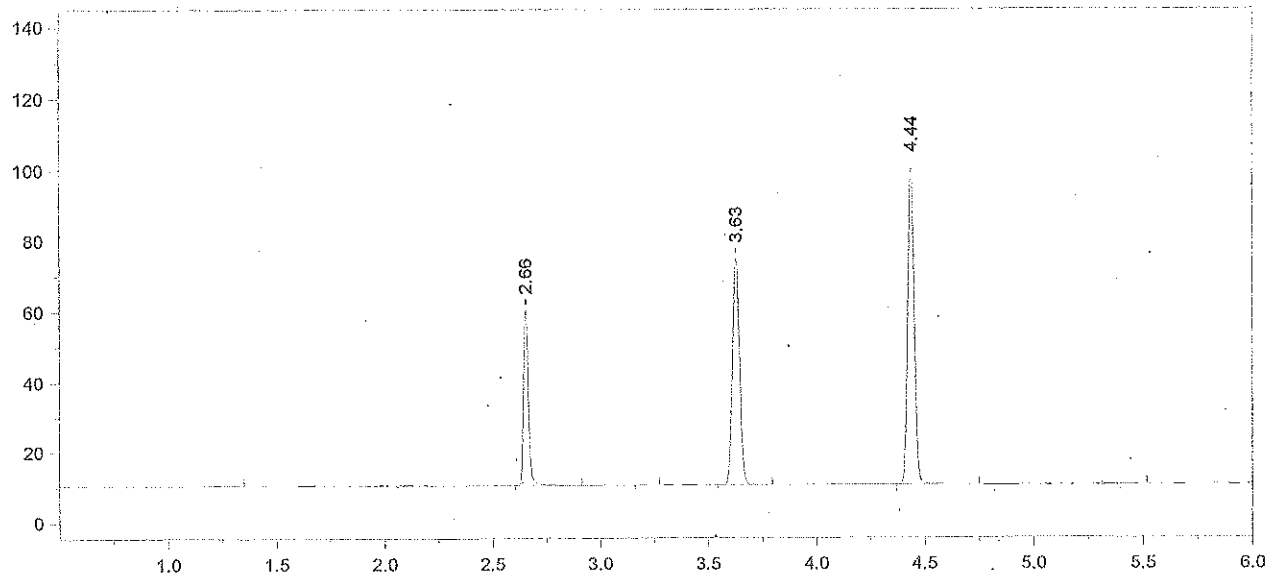
±5%: 0.0747 – 0.0826

Recovery: $\frac{0.079}{0.08}$ = 98.7%

7/8/15

AB 7/15/15
~~7/7/15 15-11-020~~
p.124 7/7/15 ~~p.130~~
15-10-400

7/7/15
110 AB 7/10/15
15-09-100



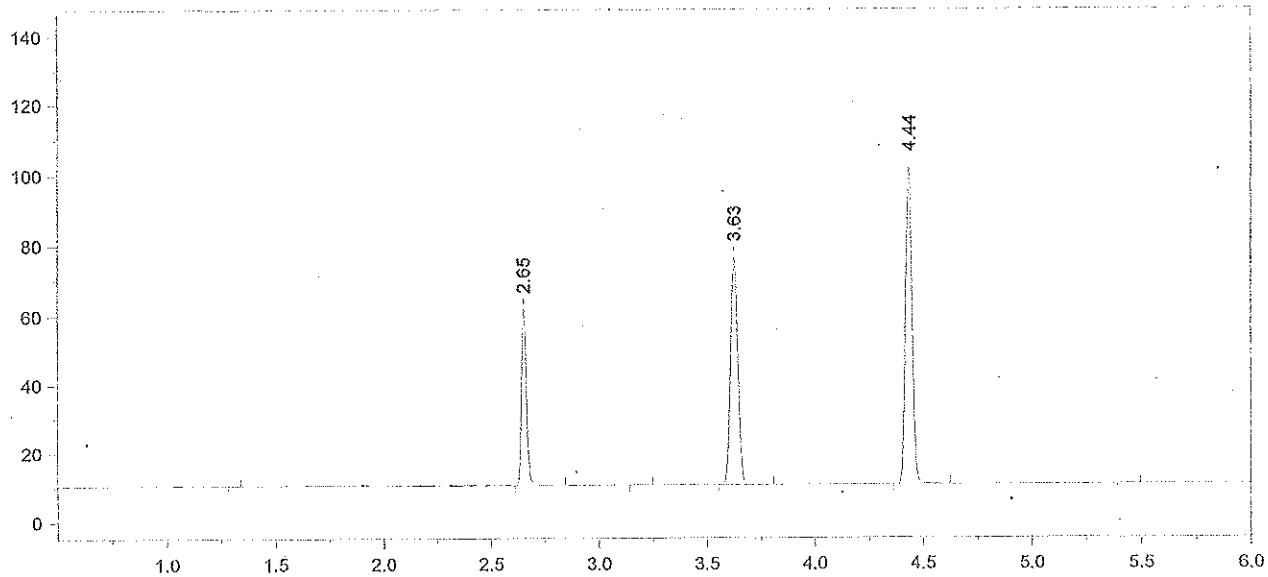
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 10:33:22 AM
Bound File Name = VFL07062015.0047.RAW
Sample Name = CCS
Date Taken = 7/7/2015 10:33:12 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	78226	0.0776
4	3.63	t-Butanol	148946	1.0126
5	4.44	n-Propanol	191201	1.0000

AB 7/15/15 P.125 DB
15-10-400

~~15-09-100~~ ~~7/15/15~~ ~~111~~ AB 7/10/15 AB DB



Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 12:37:15 PM
Bound File Name = VFL07062015.0055.RAW
Sample Name = CCS
Date Taken = 7/7/2015 12:37:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79638	0.0776
4	3.63	t-Butanol	152192	1.0160
5	4.44	n-Propanol	194726	1.0000

CCS MEAN: 0.0779% ETHANOL

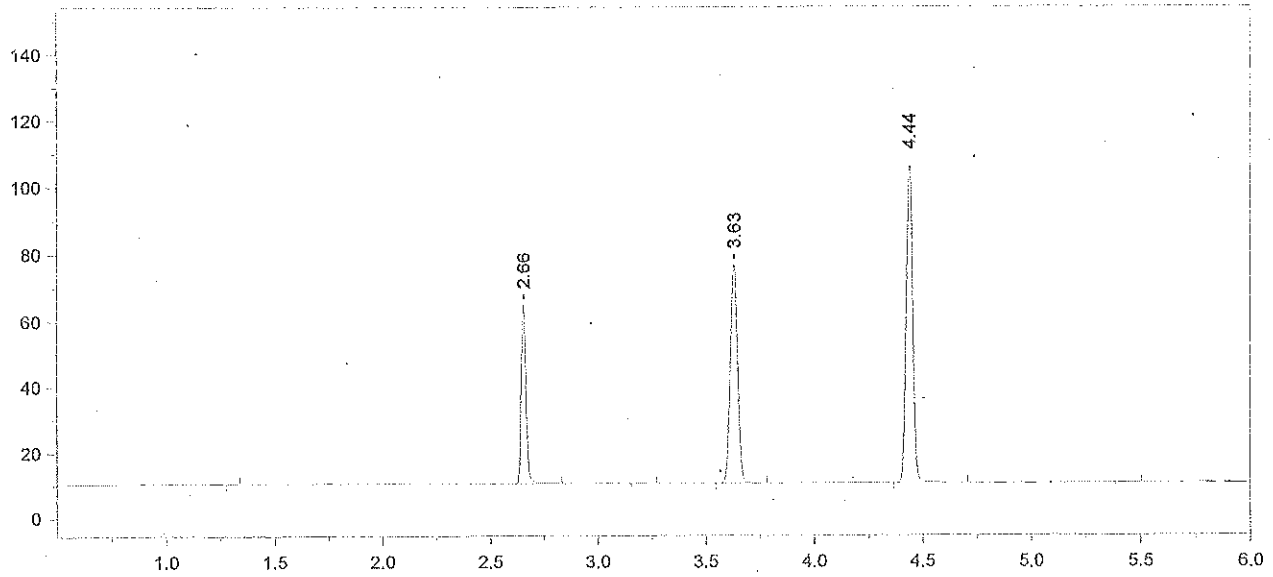
±5%: 0.0740 - 0.0818

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

7/8/15

AS 7/15/15 p.126 15-10-400

~~15 - 09 - 100~~ 07/12/15 119 AS 7/10/15 ~~75~~ AS



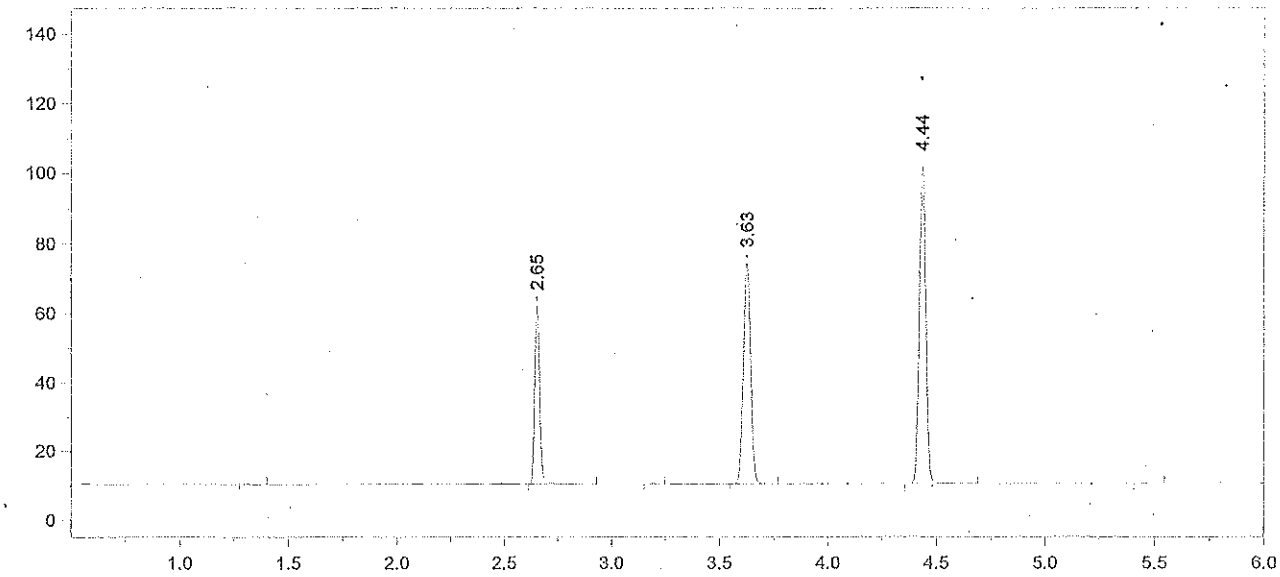
Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 12:51:48 PM
Bound File Name = VFL07062015.0056.RAW
Sample Name = CCS
Date Taken = 7/7/2015 12:51:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	84205	0.0783
4	3.63	t-Butanol	153463	0.9781
5	4.44	n-Propanol	203960	1.0000

#127 DS
DS 7/5/15 15-10-400

DS 7/8/15 120 DS 7/10/15



Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 2:55:30 PM
Bound File Name = VFL07062015.0064.RAW
Sample Name = CCS
Date Taken = 7/7/2015 2:55:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81094	0.0787
4	3.63	t-Butanol	147406	0.9800
5	4.44	n-Propanol	195522	1.0000

CCS NOW: 0.0779% ETHANOL

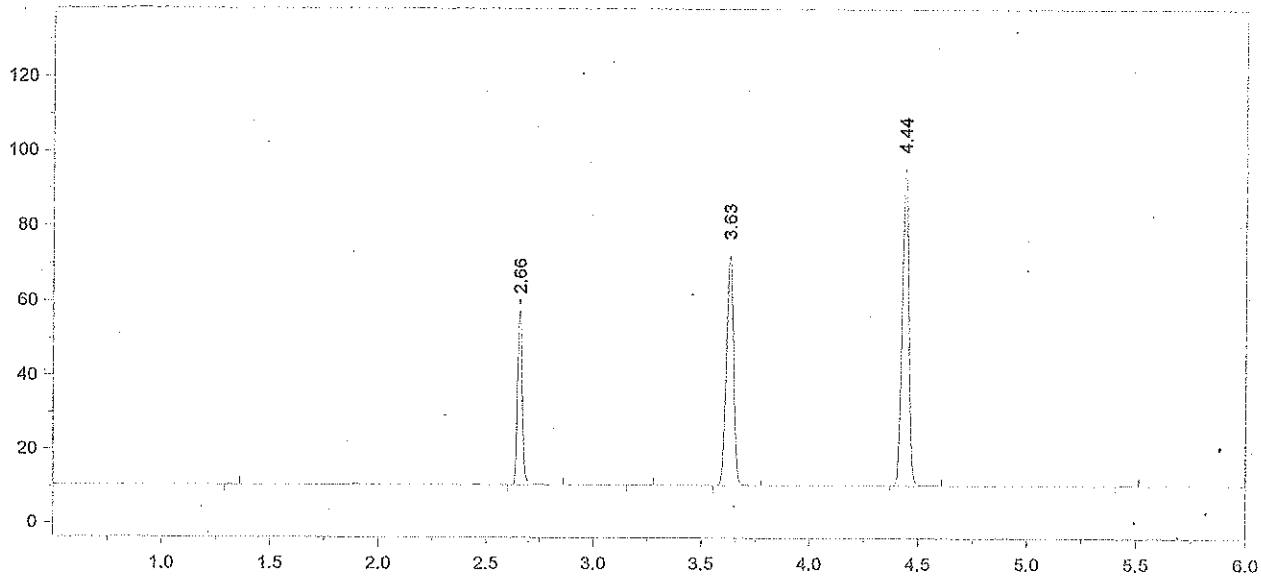
±5% : 0.0740 – 0.0818

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

7/8/15

p.128
7/15/15 15-10-400

7/13/15 128 7/10/15



Format File Name = AlcoholVFL.FMT

Today's Date = 7/7/2015
Today's Time = 3:11:10 PM
Bound File Name = VFL07062015.0065.RAW
Sample Name = CCS
Date Taken = 7/7/2015 3:11:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL07062015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	73574	0.0771
4	3.63	t-Butanol	143825	1.0331
5	4.44	n-Propanol	180968	1.0000

AB 7/15/15

7/13/15 15-10-400 p. 129 AB 7/10/15