VERMONT FORENSIC LABORATORY

VERIFICATION ~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST

LOT # Cliq8A 14 07031
~~AGENCY CASE~~#: Cliq8A 14 07031 ANALYST:
LAB #: N/A

TECHNICAL REVIEWER: TLR DATE: 10/2/15

- ☑ QC complete?
- ☑ Pertinent standard lot numbers listed?
- ☑ Data package is complete?
- ☑ Transcribed data and calculations verified?
- ☑ Calibration and control results all within ± 10% (± 20% for STD A) of the known values?
- ☑ Calibration line correlation factor at least 0.99xx?
- ☑ Average error for components of the calibration line less than 10%?
- ☑ Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
- ☒* Surrogate compound concentrations all within 0.900 to 1.100 range?
- ☑ Statistical means of the continuing calibration check sample duplicate analysis all within ± 10% of the known value?
- ☒* Individual replicates within ± 5% of the statistical mean?
- ☑ Reported results are means of two or more analyses?
  1. In the event of QNS for 2 (two) analysis a notation must be made on the worksheet.
  2. In the event that more than 2 (two) results are used to determine the reported result a notation is made on the worksheet.

Comments: * Vial 60 (CCS) outside range. Analysis of additional CCS samples OK. Out of range vial not used for QC. OK. TLR 10/2/15

ADMINISTRATIVE REVIEWER: AS DATE: 10/5/15

Lot # AS 10/5/15 COA

- ☑ ~~Agency Case # and Lab # and Evidence~~ description match ~~submission form~~? AS 10/5/15
- ☒ NA Submitting agency, investigator, suspect, CC all match submission form?
- ☒ NA Chain of Custody complete and dated appropriately?
- ☑ Are all pages numbered and initialed on the Examination Documents?
- ☑ Case number (~~agency or lab number~~) written on all pages of the case file? Lot # AS 10/5/15
- ☑ Appropriate review(s) have been completed?
- ☒ NA Is the exam end date documented in the paper case file consistent with the exam end date in LIMS?

Comments:

DIRECTOR REVIEWER: AS DATE: 10/5/15

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

Check Mark or X = pass, NA= Not Applicable

Whole Blood QC Material Verification

Manufacturer	Cliniqa
Lot number	1407031
Received	9/23/2015

Replicate	Result
1	0.0781
2	0.0792
3	0.0778
4	0.0795
5	0.0771
6	0.0798
7	0.0769
8	0.0796
9	0.0771
10	0.0791
Mean	0.0784
Stdev	0.0011
± 5%	0.0745 - 0.0823

Acceptance range	
Low	0.070
High	0.086

Lot numbers	
WB QC	Cliniqa 1212090
AQ QC	Cerilliant FN09051304
Cal Std A	Cerilliant FN01131401
Cal Std B	Cerilliant FN08101401
Cal Std C	Cerilliant FN05211402
Cal Std D	Cerilliant FN12011401
Cal Std E	Cerilliant FN11191402
Int Std	IS-06022015-A
TMX	TMX-08142015
Blank	BL-01162015

1407031 DS p1 of 36

File Name = C:\Alcohol Data\VFL09292015\VFL09292015.SEQ
Version = 3
File Date = 9/30/2015 9:03:02 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL09292015.0001.raw	Blood Alc temp VFL.MET	BLANK	1.00	1.00
2	VFL09292015.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL09292015.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL09292015.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL09292015.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL09292015.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL09292015.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL09292015.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL09292015.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL09292015.0010.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
11	VFL09292015.0011.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
12	VFL09292015.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL09292015.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL09292015.0014.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
15	VFL09292015.0015.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
16	VFL09292015.0016.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
17	VFL09292015.0017.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
18	VFL09292015.0018.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
19	VFL09292015.0019.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
20	VFL09292015.0020.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
21	VFL09292015.0021.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
22	VFL09292015.0022.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
23	VFL09292015.0023.raw	Blood Alc temp VFL.MET	1407031 WB	1.00	1.00
24	VFL09292015.0024.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
25	VFL09292015.0025.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
26	VFL09292015.0026.raw	simsoln.met	0.04 JD	1.00	1.00
27	VFL09292015.0027.raw	simsoln.met	0.04 JD	1.00	1.00
28	VFL09292015.0028.raw	simsoln.met	0.04 JD	1.00	1.00
29	VFL09292015.0029.raw	simsoln.met	0.04 JD	1.00	1.00
30	VFL09292015.0030.raw	simsoln.met	0.04 JD	1.00	1.00
31	VFL09292015.0031.raw	simsoln.met	0.04 JD	1.00	1.00
32	VFL09292015.0032.raw	simsoln.met	0.04 JD	1.00	1.00
33	VFL09292015.0033.raw	simsoln.met	0.08 JD	1.00	1.00
34	VFL09292015.0034.raw	simsoln.met	0.08 JD	1.00	1.00
35	VFL09292015.0035.raw	simsoln.met	0.08 JD	1.00	1.00
36	VFL09292015.0036.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
37	VFL09292015.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	VFL09292015.0038.raw	simsoln.met	0.08 JD	1.00	1.00
39	VFL09292015.0039.raw	simsoln.met	0.08 JD	1.00	1.00
40	VFL09292015.0040.raw	simsoln.met	0.08 JD	1.00	1.00
41	VFL09292015.0041.raw	simsoln.met	0.08 JD	1.00	1.00
42	VFL09292015.0042.raw	simsoln.met	0.04 DP	1.00	1.00
43	VFL09292015.0043.raw	simsoln.met	0.04 DP	1.00	1.00
44	VFL09292015.0044.raw	simsoln.met	0.04 DP	1.00	1.00
45	VFL09292015.0045.raw	simsoln.met	0.04 DP	1.00	1.00
46	VFL09292015.0046.raw	simsoln.met	0.04 DP	1.00	1.00
47	VFL09292015.0047.raw	simsoln.met	0.04 DP	1.00	1.00
48	VFL09292015.0048.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
49	VFL09292015.0049.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
50	VFL09292015.0050.raw	simsoln.met	0.04 DP	1.00	1.00
51	VFL09292015.0051.raw	simsoln.met	0.08 DP	1.00	1.00
52	VFL09292015.0052.raw	simsoln.met	0.08 DP	1.00	1.00
53	VFL09292015.0053.raw	simsoln.met	0.08 DP	1.00	1.00
54	VFL09292015.0054.raw	simsoln.met	0.08 DP	1.00	1.00
55	VFL09292015.0055.raw	simsoln.met	0.08 DP	1.00	1.00
56	VFL09292015.0056.raw	simsoln.met	0.08 DP	1.00	1.00
57	VFL09292015.0057.raw	simsoln.met	0.08 DP	1.00	1.00
58	VFL09292015.0058.raw	Blood Alc temp VFL.MET	IS-09292015	1.00	1.00
59	VFL09292015.0059.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
60	VFL09292015.0060.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
61	VFL09292015.0061.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
62	VFL09292015.0062.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

SIM SOLUTIONS AND MOBILE SAMPLES VERIFIED NOT INCLUDED. JD 10/6/15

ADDITIONAL SAMPLES RAN WITHIN 24H OF CALIBRATION

1407031 JD p2

File Name: C:\Methods\VFL09292015.CAL
Version: 7

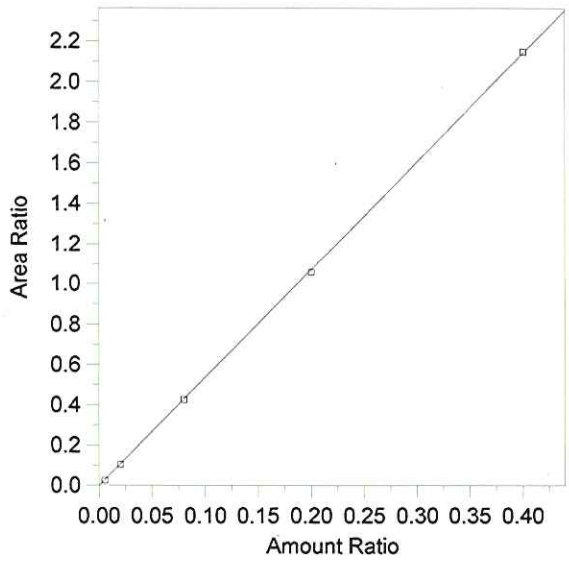
Creator:
Description:
Reason for change:

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

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

All levels are normal data points.

3 Ethanol



Expected retention time: 2.653 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

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

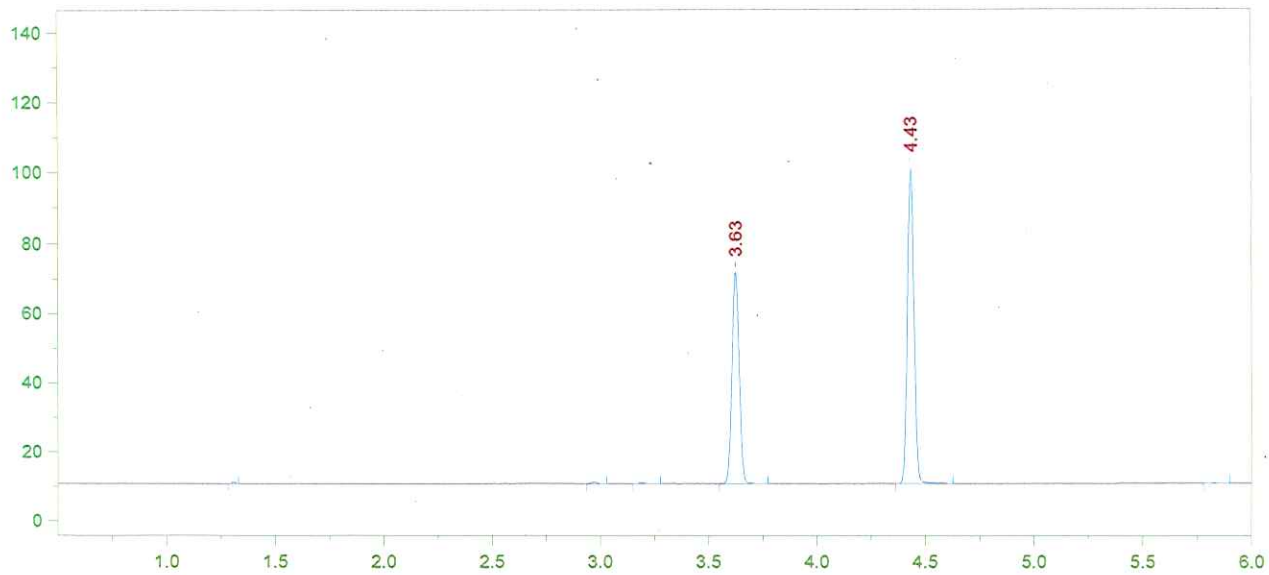
Single peak quantification by area

$Y = 5.35331 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999201
Average error: 1.430%
Average CF: 5.284125
RSD: 1.224%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.078)	(85146)	--	--	0.078	85146	Manual	8/18/2015 8:39:13 AM
2	0.005	4759.917	951983.4	-2.435	0.005	2.611472E-02	C:\Alcohol Data\VFL09292015\VFL09292015.0003.BND	9/30/2015 1:35:24 PM
3	0.02	18010	900500	-2.487	0.02	0.1044036	C:\Alcohol Data\VFL09292015\VFL09292015.0004.BND	9/30/2015 1:35:26 PM
4	0.08	78167.2	977090.1	-0.637	0.08	0.4255375	C:\Alcohol Data\VFL09292015\VFL09292015.0005.BND	9/30/2015 1:35:29 PM
5	0.2	193988.5	969942.5	-1.247	0.2	1.057314	C:\Alcohol Data\VFL09292015\VFL09292015.0006.BND	9/30/2015 1:35:31 PM
6	0.4	375707.4	939268.5	0.344	0.4	2.148685	C:\Alcohol Data\VFL09292015\VFL09292015.0007.BND	9/30/2015 8:23:08 AM

140703 DB p3

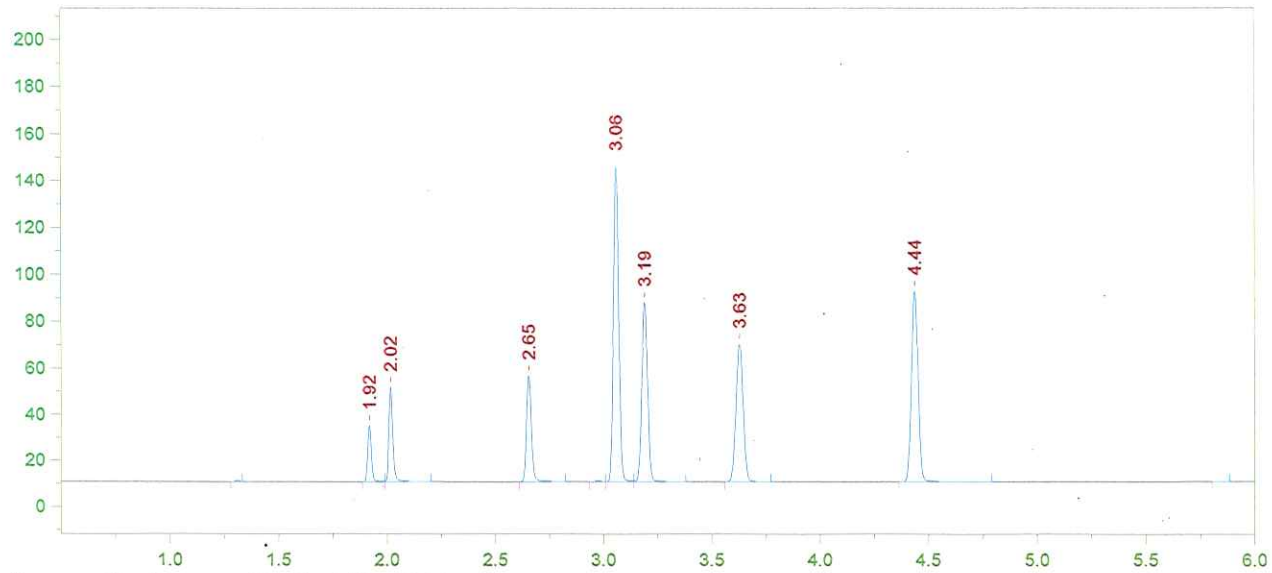


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:28:54 AM
Bound File Name = VFL09292015.0001.RAW
Sample Name = BLANK
Date Taken = 9/29/2015 2:44:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	141532	0.9681
5	4.43	n-Propanol	190471	1.0000

1407031 DG p4

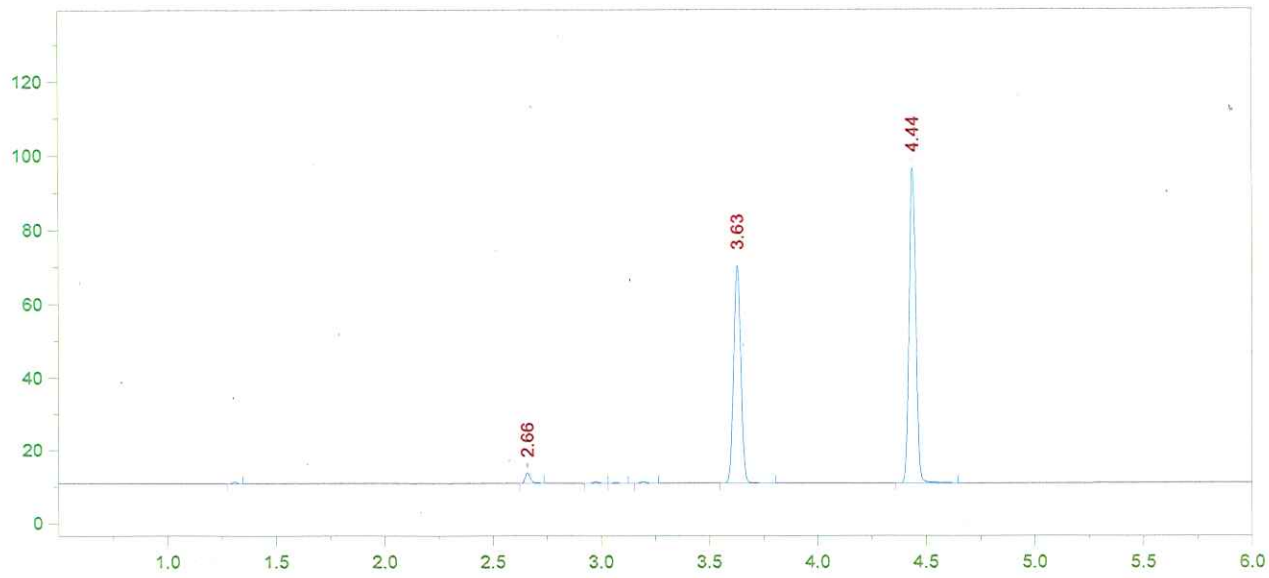


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:00 AM
Bound File Name = VFL09292015.0002.RAW
Sample Name = TMX
Date Taken = 9/29/2015 3:02:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	28612	0.0686
3	2.02	Methanol	51384	0.1169
4	2.65	Ethanol	71617	0.0766
6	3.06	Acetone	231214	0.0612
7	3.19	Isopropanol	144332	0.0780
8	3.63	t-Butanol	137769	1.0277
9	4.44	n-Propanol	174646	1.0000

140703 DG 05

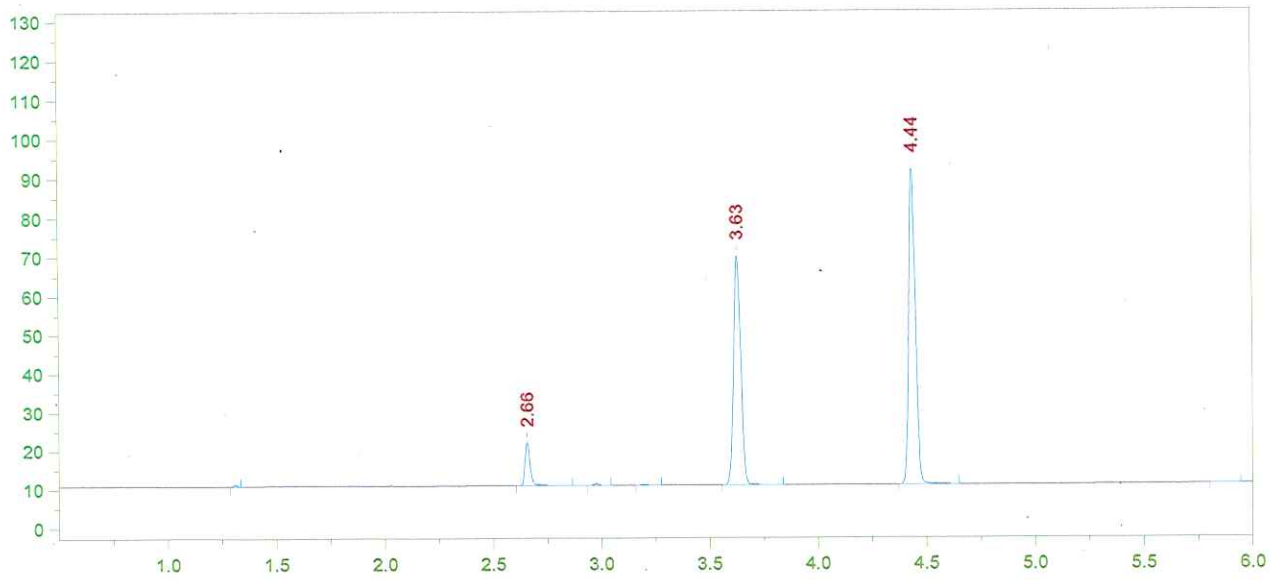


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:05 AM
Bound File Name = VFL09292015.0003.RAW
Sample Name = STD A
Date Taken = 9/29/2015 3:16:32 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	04760	0.0049
6	3.63	t-Butanol	137008	0.9793
7	4.44	n-Propanol	182270	1.0000

1407021 DJ 06

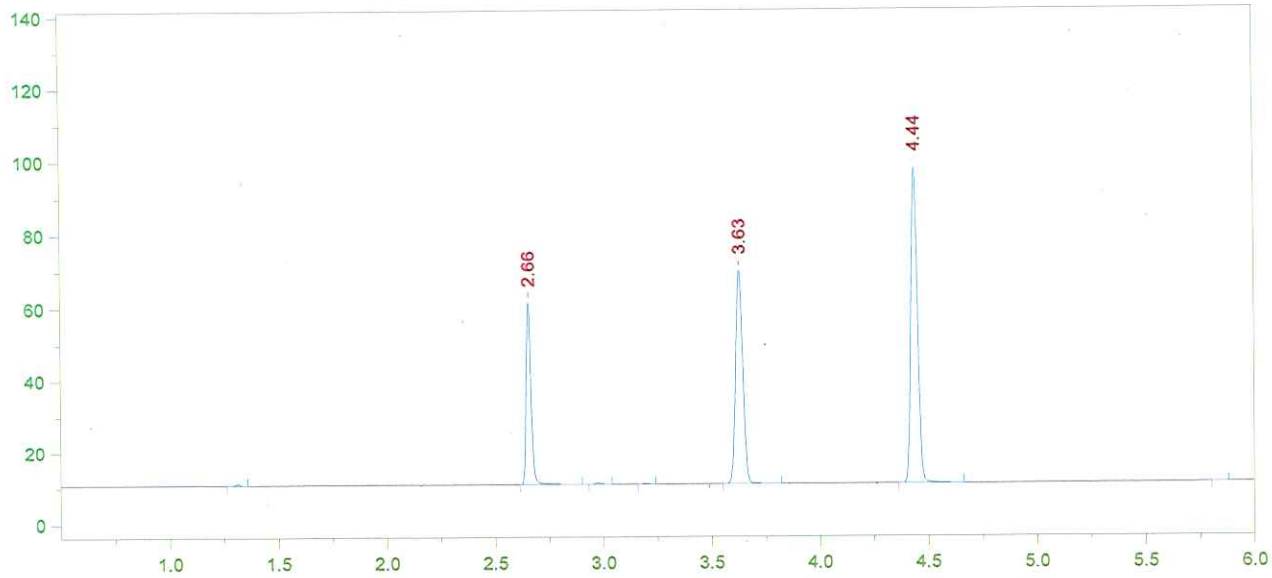


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:11 AM
Bound File Name = VFL09292015.0004.RAW
Sample Name = STD B
Date Taken = 9/29/2015 3:34:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	18010	0.0195
5	3.63	t-Butanol	136418	1.0303
6	4.44	n-Propanol	172504	1.0000

140703J



Format File Name = AlcoholVFL.FMT

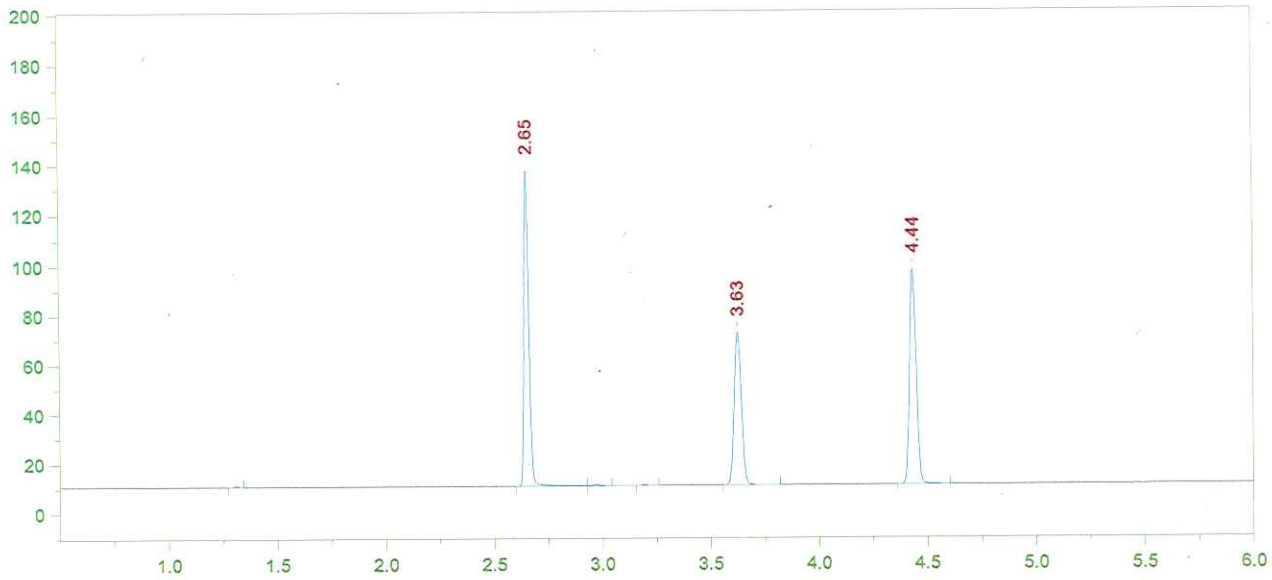
Today's Date = 9/30/2015
Bound File Name = VFL09292015.0005.RAW
Sample Name = STD C
Date Taken = 9/29/2015 3:48:04 PM
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL

Today's Time = 8:29:16 AM

VFL Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	78167	0.0795
5	3.63	t-Butanol	136679	0.9694
6	4.44	n-Propanol	183691	1.0000

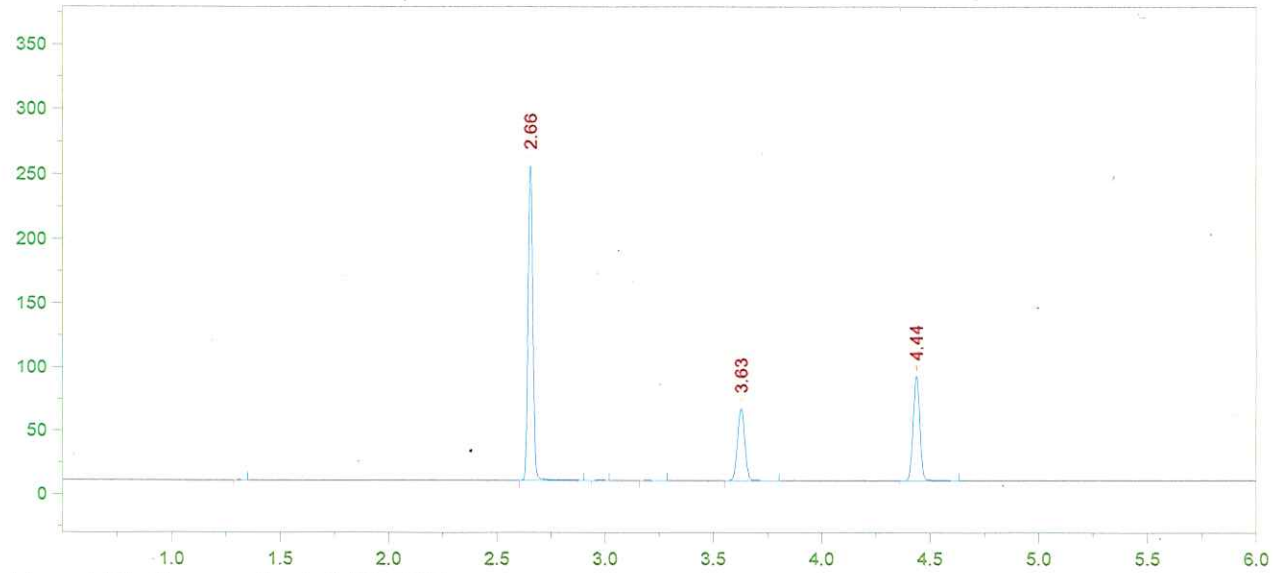


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:22 AM
Bound File Name = VFL09292015.0006.RAW
Sample Name = STD D
Date Taken = 9/29/2015 4:03:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	193989	0.1975
5	3.63	t-Butanol	142883	1.0146
6	4.44	n-Propanol	183473	1.0000

1407031 08 09



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Bound File Name = VFL09292015.0007.RAW
Sample Name = STD E
Date Taken = 9/29/2015 4:20:11 PM
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL

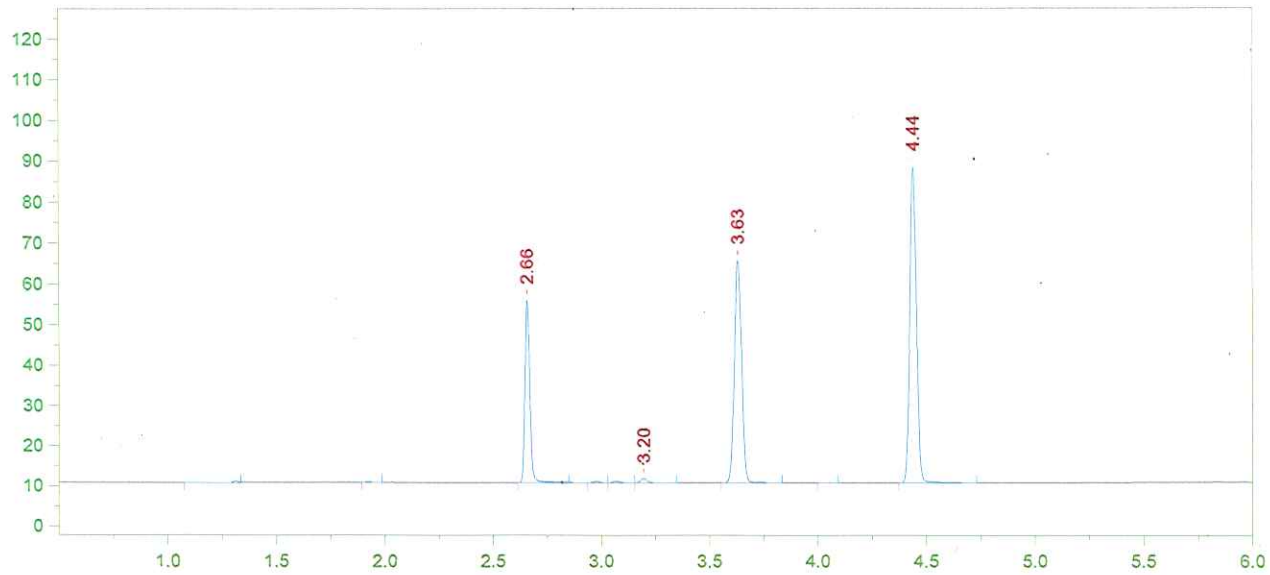
Today's Time = 8:29:28 AM

VFL Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	375707	0.4014
5	3.63	t-Butanol	131366	0.9788
6	4.44	n-Propanol	174855	1.0000

1407021 Sg p10



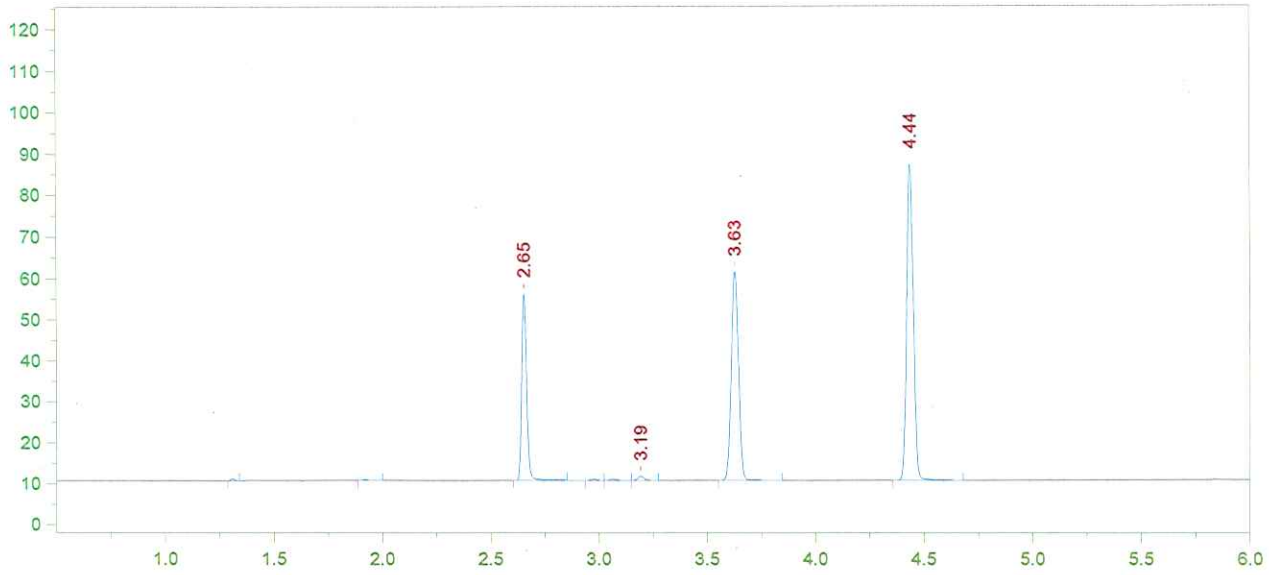
Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:35 AM
Bound File Name = VFL09292015.0008.RAW
Sample Name = WB
Date Taken = 9/29/2015 4:35:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	70246	0.0798
6	3.20	Isopropanol	02178	<0.004
7	3.63	t-Butanol	127559	1.0102
9	4.44	n-Propanol	164509	1.0000

1409031

p/1



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:41 AM
Bound File Name = VFL09292015.0009.RAW
Sample Name = WB
Date Taken = 9/29/2015 4:50:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	70724	0.0816
6	3.19	Isopropanol	01999	<0.004
7	3.63	t-Butanol	117673	0.9464
8	4.44	n-Propanol	161987	1.0000

WB Lot # CLINQA 121090

MEAN: 0.0807 g/100 mL EtOH

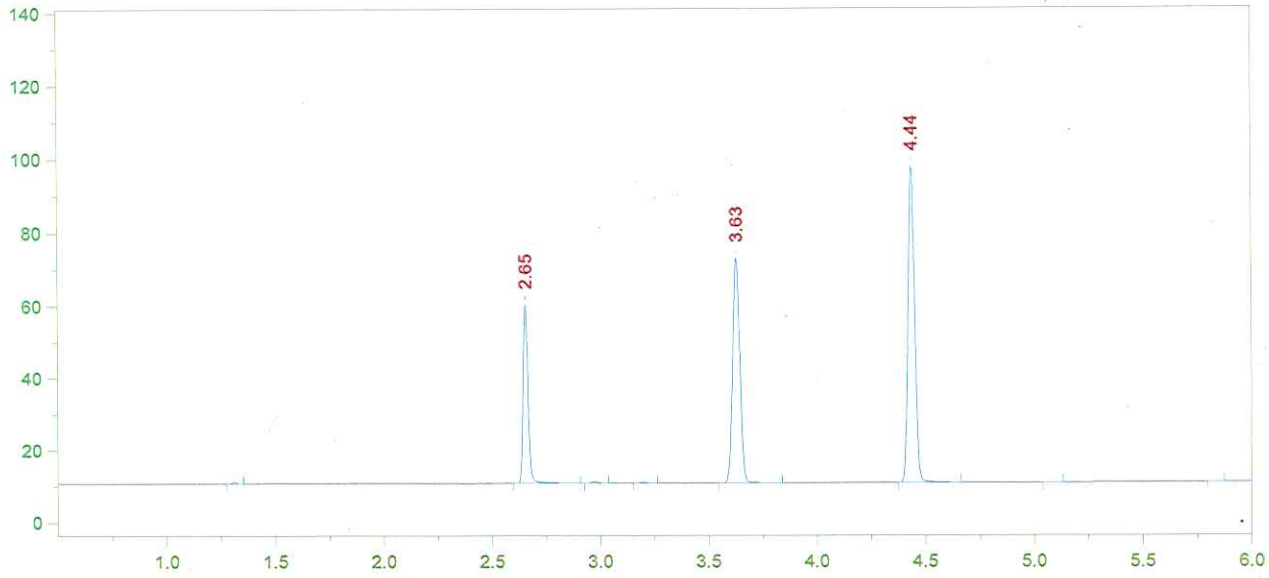
±5%: 0.0766 – 0.0847

Recovery: $\frac{0.081}{0.080}$ = 101.2%.

9/30/15

1407031

9/12

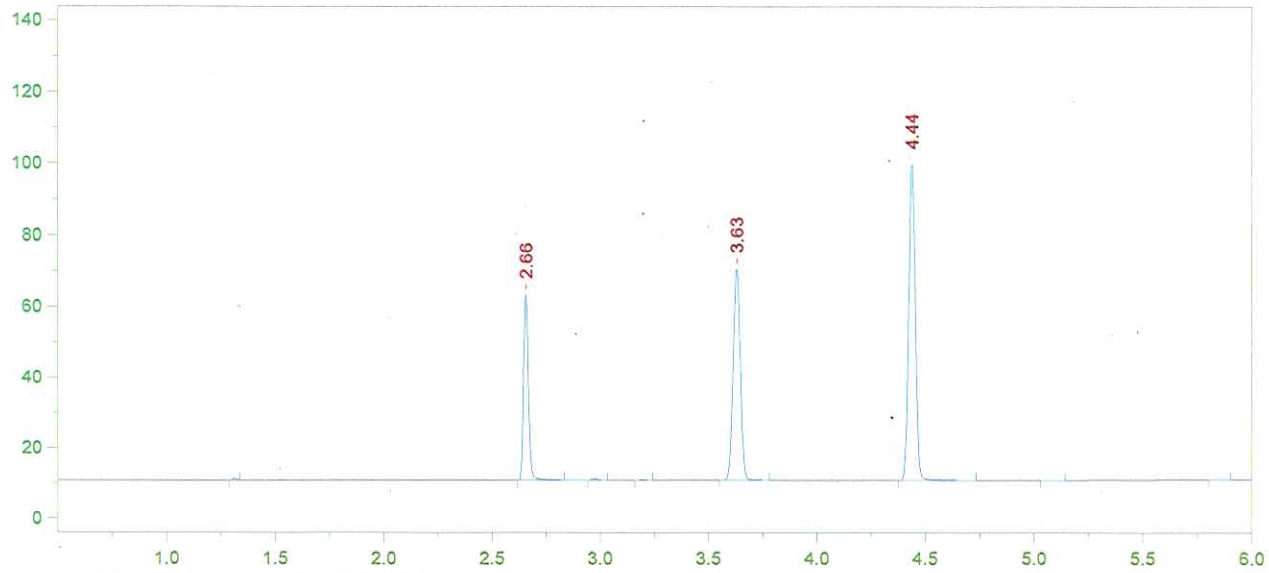


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:47 AM
Bound File Name = VFL09292015.0010.RAW
Sample Name = AQ
Date Taken = 9/29/2015 5:05:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	77055	0.0783
5	3.63	t-Butanol	143434	1.0168
6	4.44	n-Propanol	183771	1.0000

1407031 p13



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:52 AM
Bound File Name = VFL09292015.0011.RAW
Sample Name = AQ
Date Taken = 9/29/2015 5:22:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	81464	0.0809
5	3.63	t-Butanol	137846	0.9552
6	4.44	n-Propanol	188017	1.0000

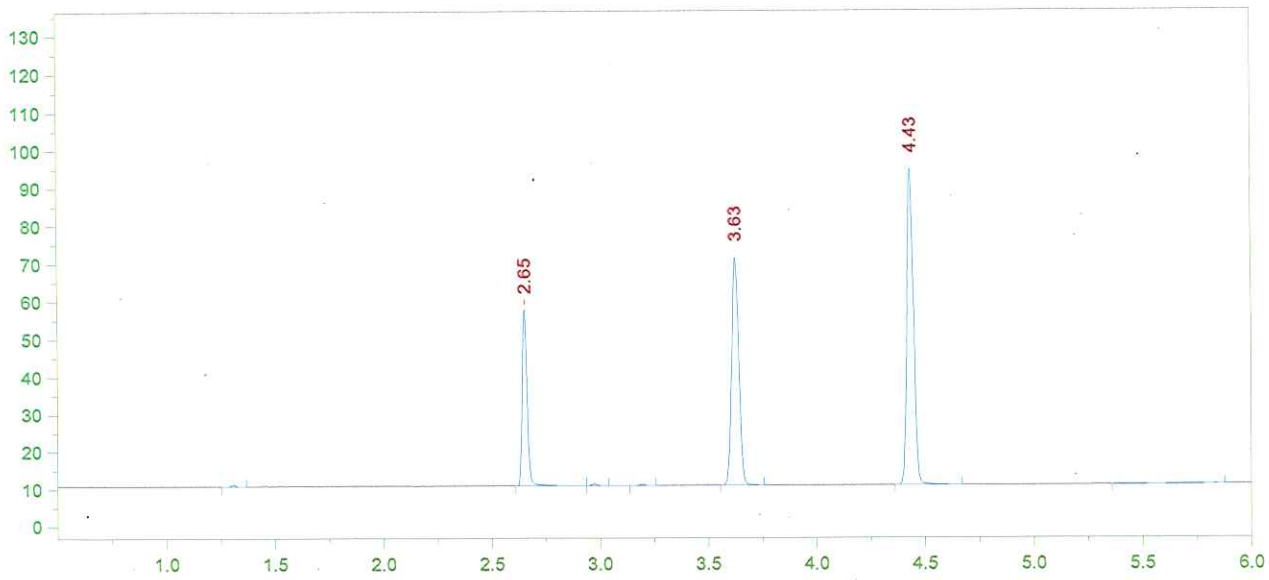
AQ Lot # Calibrator FN0905B04

MEAN: 0.0796 g/100 mL EtOH

±5% : 0.756 - 0.0836

Recovery : $\frac{0.079}{0.080}$ = 98.7%

1407031 pl4

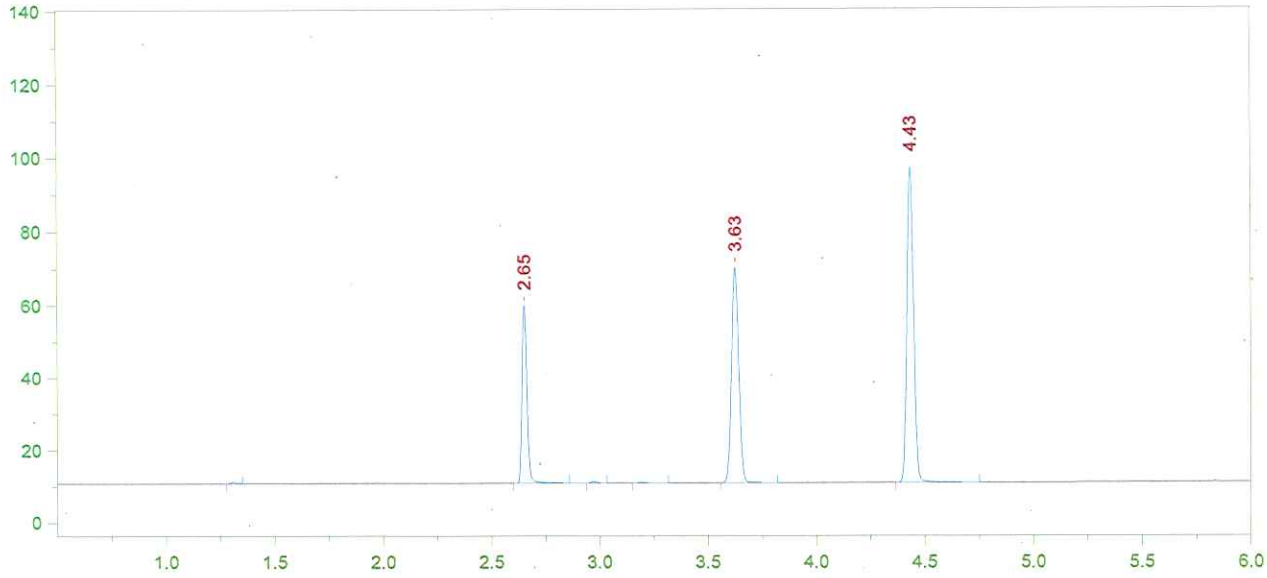


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:29:59 AM
Bound File Name = VFL09292015.0012.RAW
Sample Name = CCS
Date Taken = 9/29/2015 5:37:16 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	73559	0.0774
6	3.63	t-Butanol	139299	1.0220
7	4.43	n-Propanol	177567	1.0000

1407031 SS 015



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:06 AM
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Sample Name = CCS
Date Taken = 9/29/2015 5:52:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	76789	0.0780
5	3.63	t-Butanol	136961	0.9698
6	4.43	n-Propanol	183996	1.0000

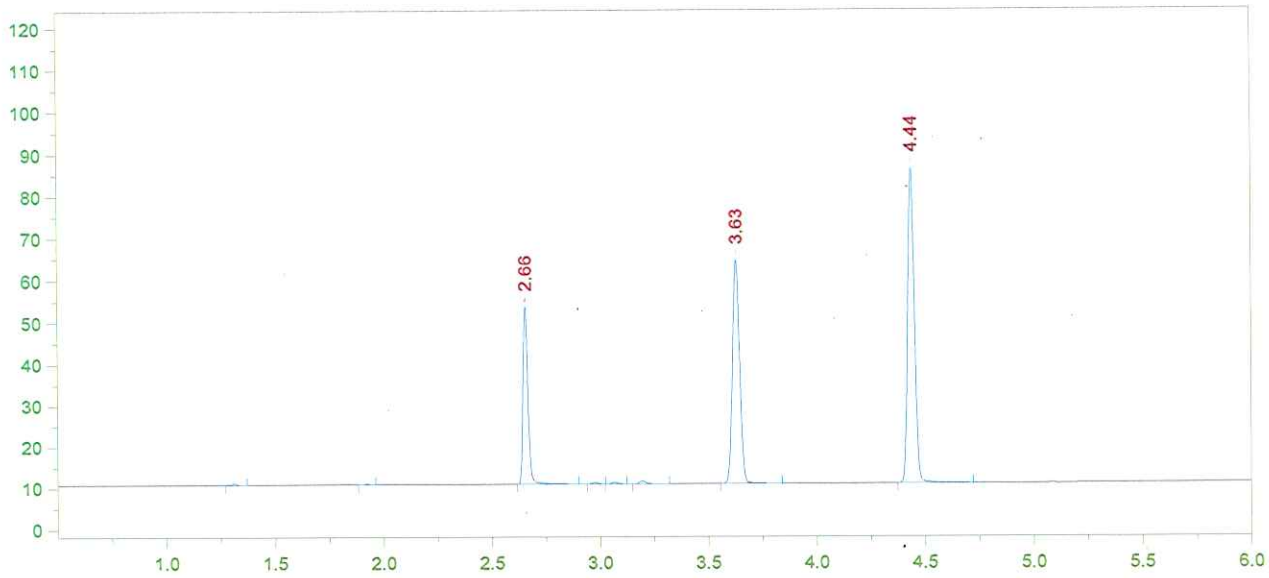
CCS MSW: 0.0777 g/100 mL EtOH

±5%: 0.0738 - 0.0816

Recovery: $\frac{0.078}{0.080}$ = 97.5%

9/30/15

1407031 p16



Format File Name = AlcoholVFL.FMT

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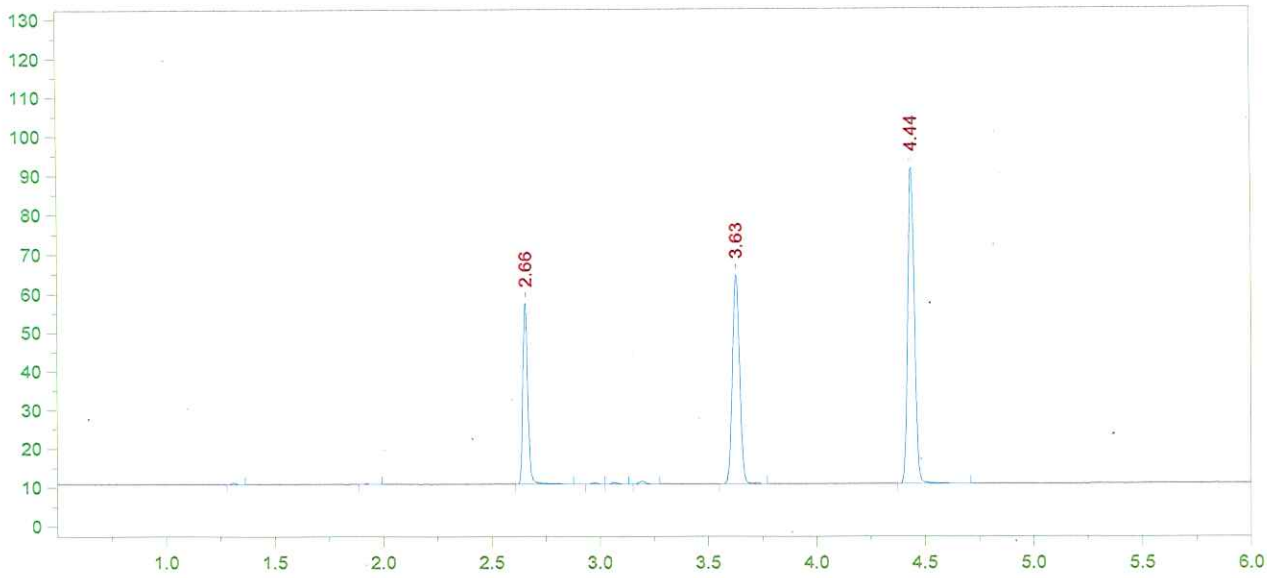
Today's Time = 8:30:12 AM
Bound File Name = VFL09292015.0014.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 6:08:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	67089	0.0781
7	3.63	t-Butanol	123959	1.0062
8	4.44	n-Propanol	160500	1.0000

1407031 SB p17

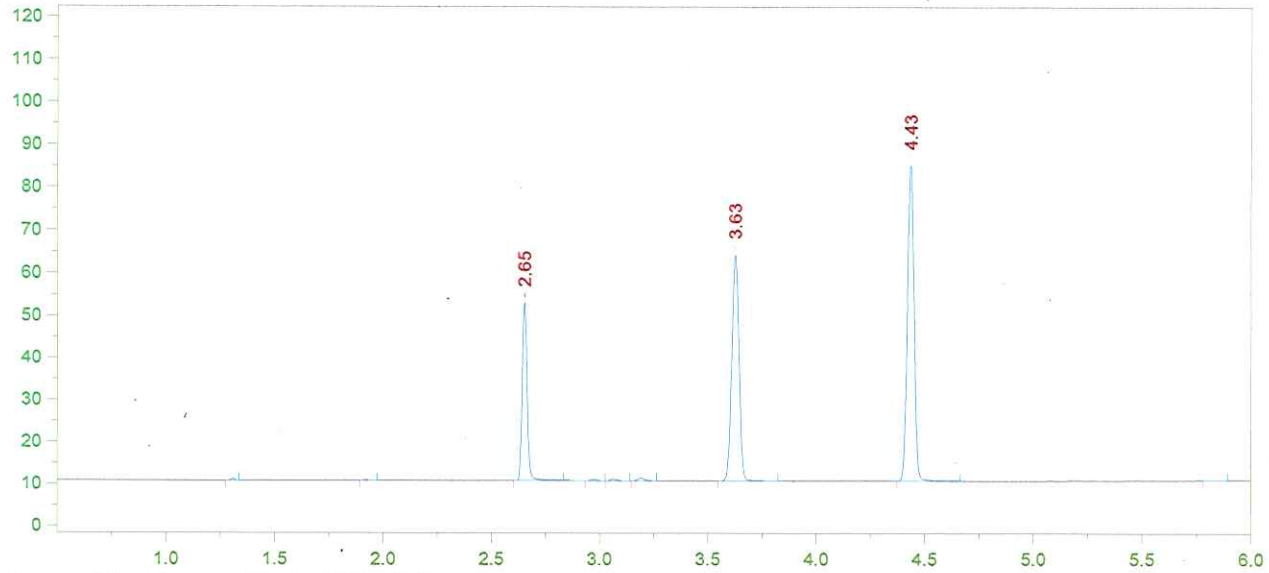


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:18 AM
Bound File Name = VFL09292015.0015.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 6:23:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	72968	0.0792
7	3.63	t-Butanol	124450	0.9416
8	4.44	n-Propanol	172193	1.0000

1407031

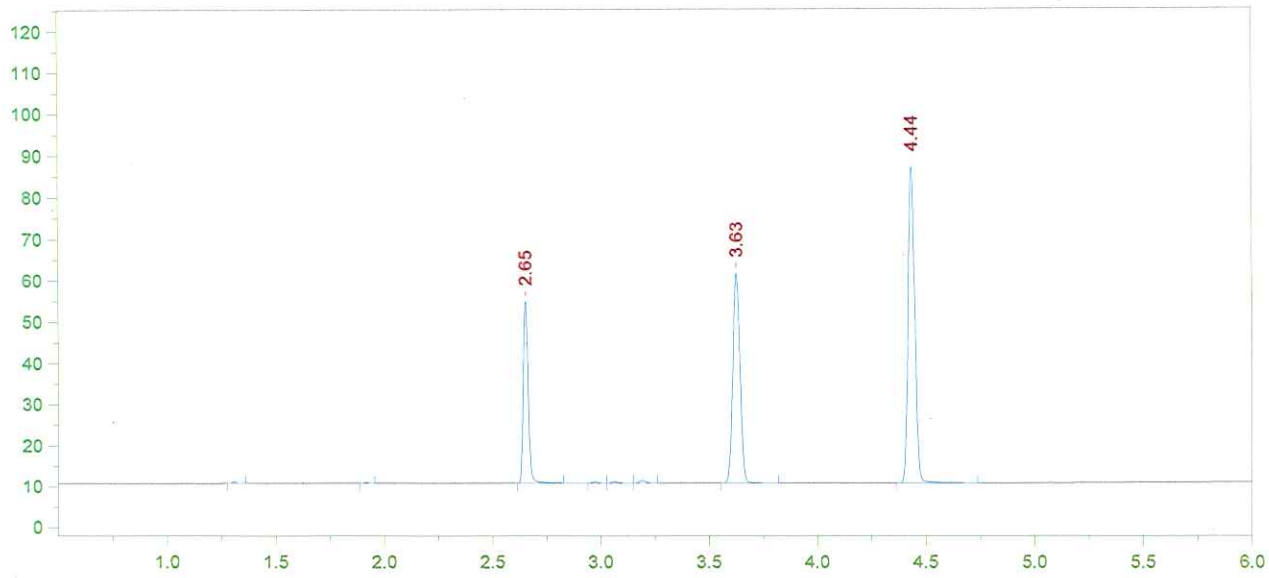


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:23 AM
Bound File Name = VFL09292015.0016.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 6:40:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	65961	0.0778
7	3.63	t-Butanol	123278	1.0141
8	4.43	n-Propanol	158377	1.0000

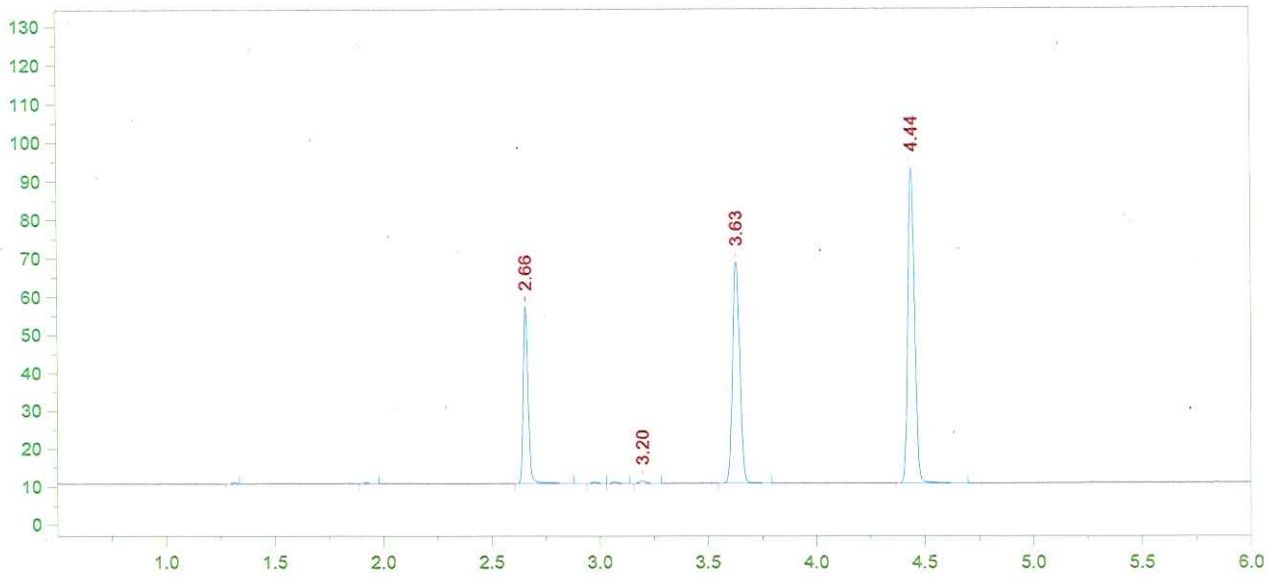
1407031 DB p19



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:30 AM
Bound File Name = VFL09292015.0017.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 6:54:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

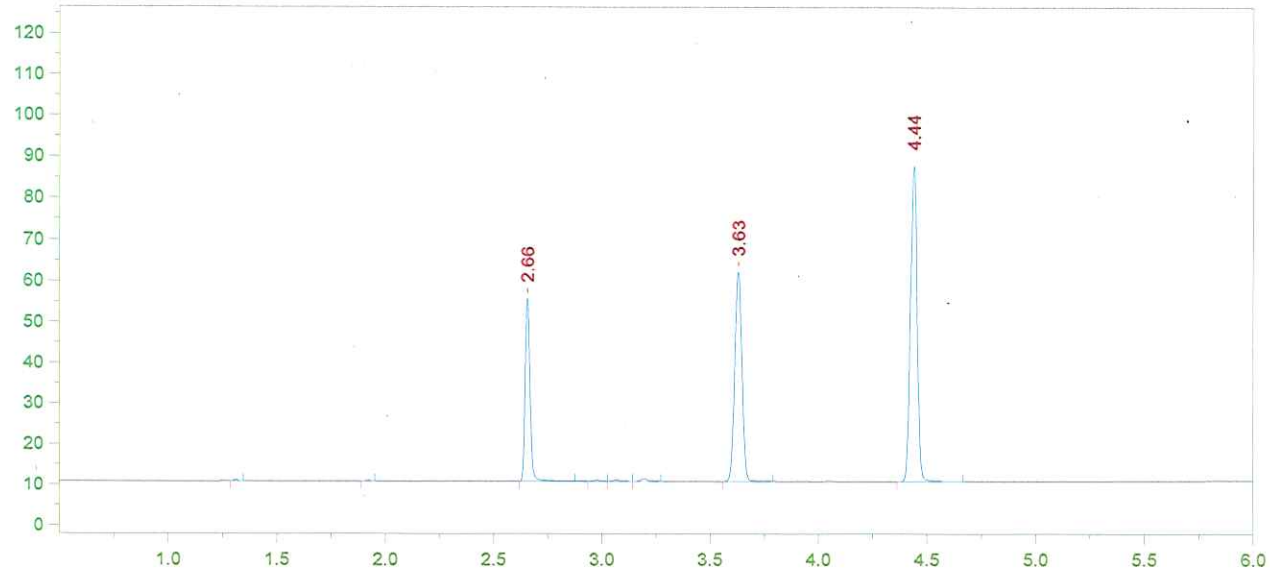
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	69196	0.0795
7	3.63	t-Butanol	117355	0.9406
8	4.44	n-Propanol	162542	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:37 AM
Bound File Name = VFL09292015.0018.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 7:09:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	72228	0.0771
6	3.20	Isopropanol	01552	<0.004
7	3.63	t-Butanol	134924	1.0050
8	4.44	n-Propanol	174903	1.0000

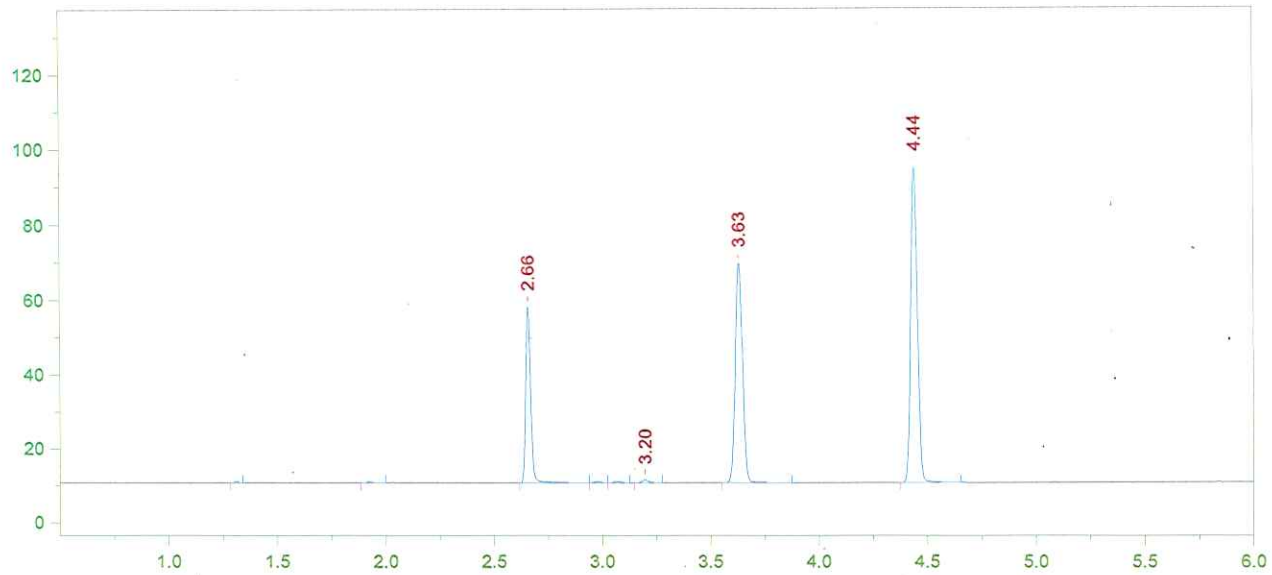


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:44 AM
Bound File Name = VFL09292015.0019.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 7:26:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	69903	0.0798
7	3.63	t-Butanol	118737	0.9457
8	4.44	n-Propanol	163572	1.0000

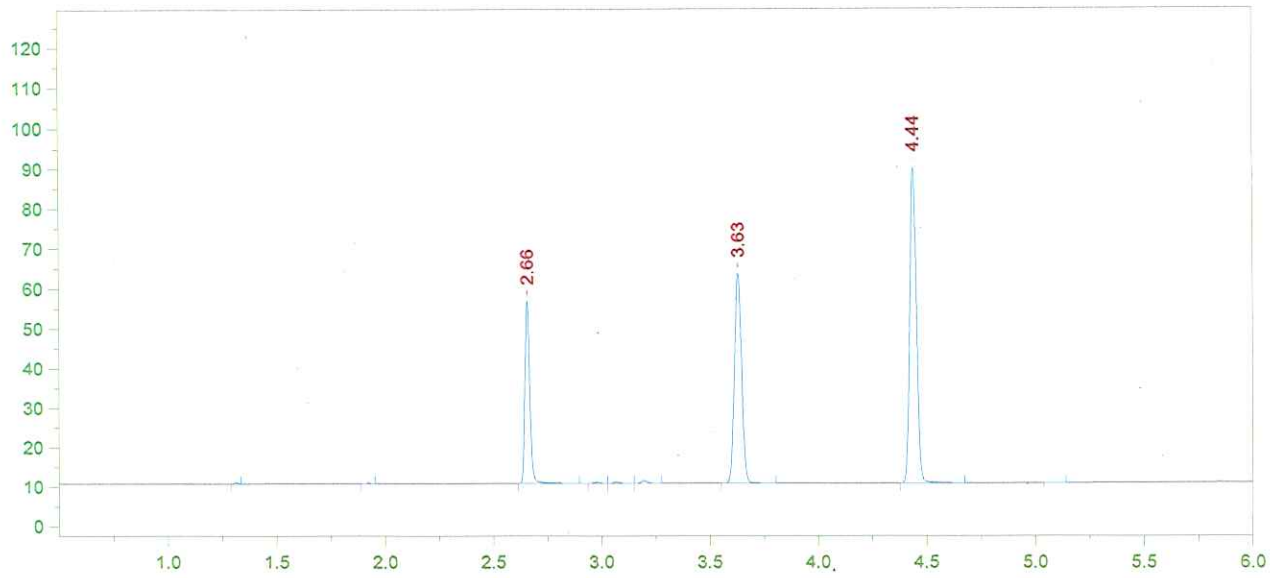
1407031 p22



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:50 AM
Bound File Name = VFL09292015.0020.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 7:39:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	73699	0.0769
6	3.20	Isopropanol	01541	<0.004
7	3.63	t-Butanol	136853	0.9961
8	4.44	n-Propanol	178993	1.0000

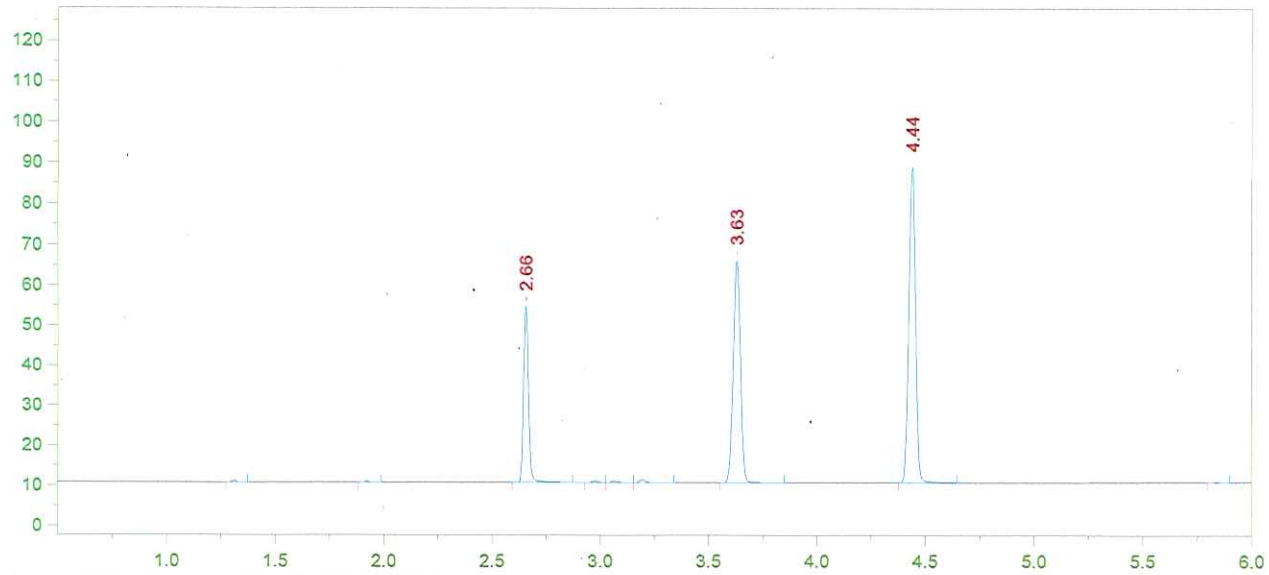


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:30:55 AM
Bound File Name = VFL09292015.0021.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 7:56:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	71505	0.0796
7	3.63	t-Butanol	122294	0.9490
8	4.44	n-Propanol	167881	1.0000

1407031 86 p24

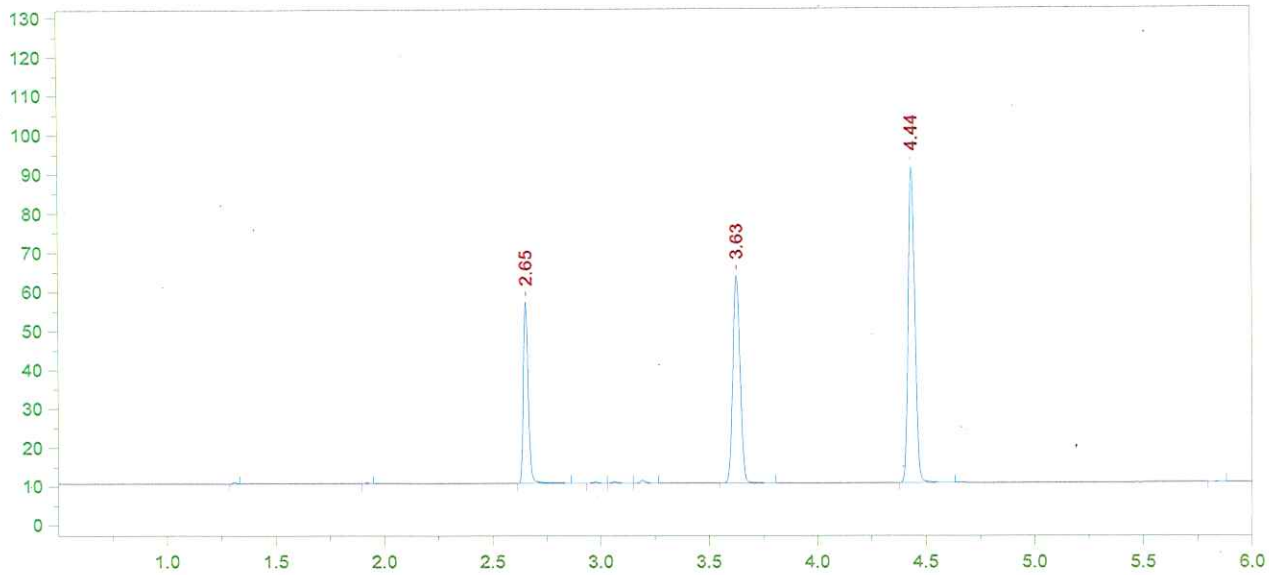


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:31:02 AM
Bound File Name = VFL09292015.0022.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 8:12:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	68529	0.0771
7	3.63	t-Butanol	127513	1.0005
8	4.44	n-Propanol	166047	1.0000

1407031 DG 025

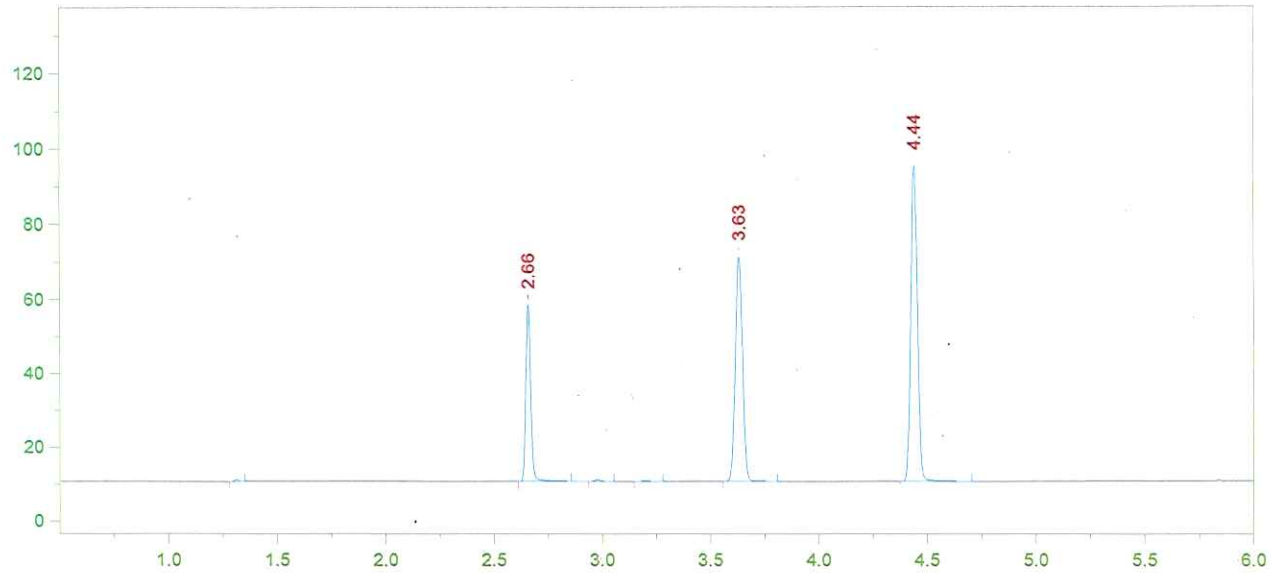


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:31:08 AM
Bound File Name = VFL09292015.0023.RAW
Sample Name = 1407031 WB
Date Taken = 9/29/2015 8:27:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	72412	0.0791
7	3.63	t-Butanol	123686	0.9423
8	4.44	n-Propanol	171006	1.0000

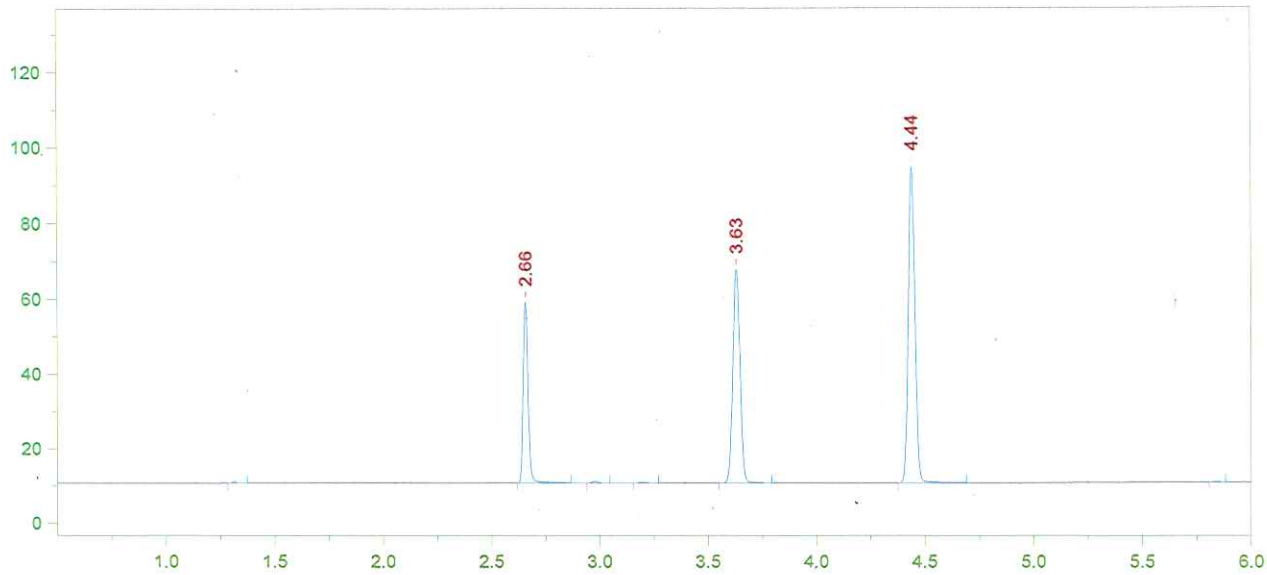
1407031 026



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:31:14 AM
Bound File Name = VFL09292015.0024.RAW
Sample Name = CCS
Date Taken = 9/29/2015 8:44:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	74060	0.0773
5	3.63	t-Butanol	140362	1.0211
6	4.44	n-Propanol	179084	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Bound File Name = VFL09292015.0025.RAW
Sample Name = CCS
Date Taken = 9/29/2015 8:57:27 PM
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL

Today's Time = 8:31:19 AM

VFL Headspace Alcohol

Calibration Version = 7

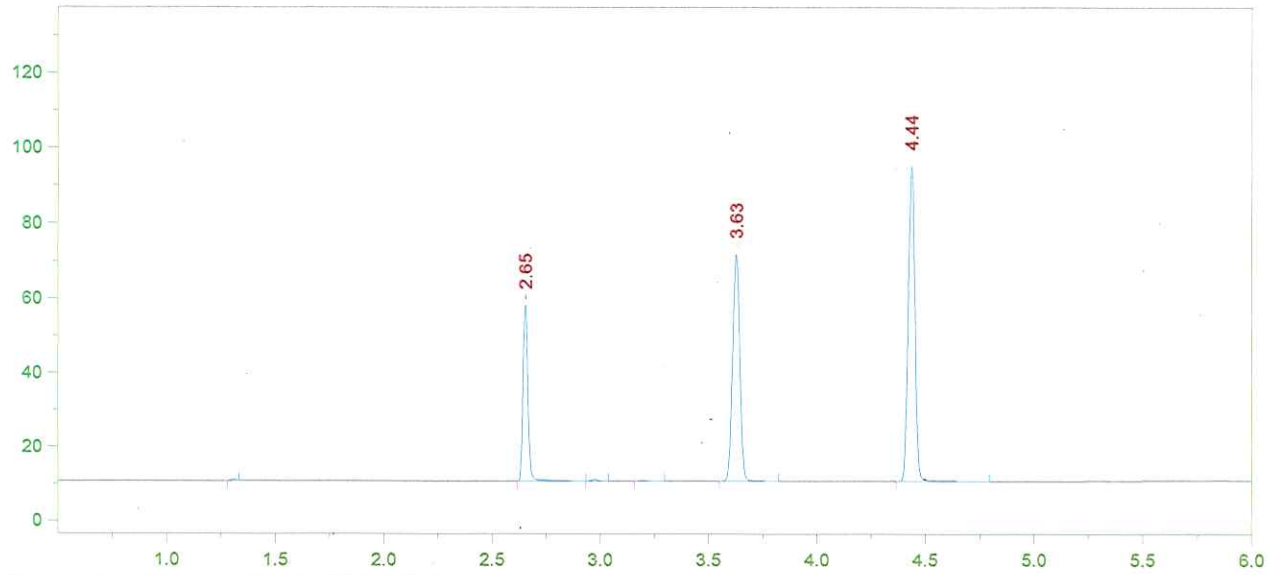
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	74779	0.0785
5	3.63	t-Butanol	131515	0.9633
6	4.44	n-Propanol	177858	1.0000

CCS MEAN: 0.0779 g/100ml EtOH

±5%: 0.0740 – 0.0818

Recovery: $\frac{0.078}{0.080}$ = 97.5%

[illegible]

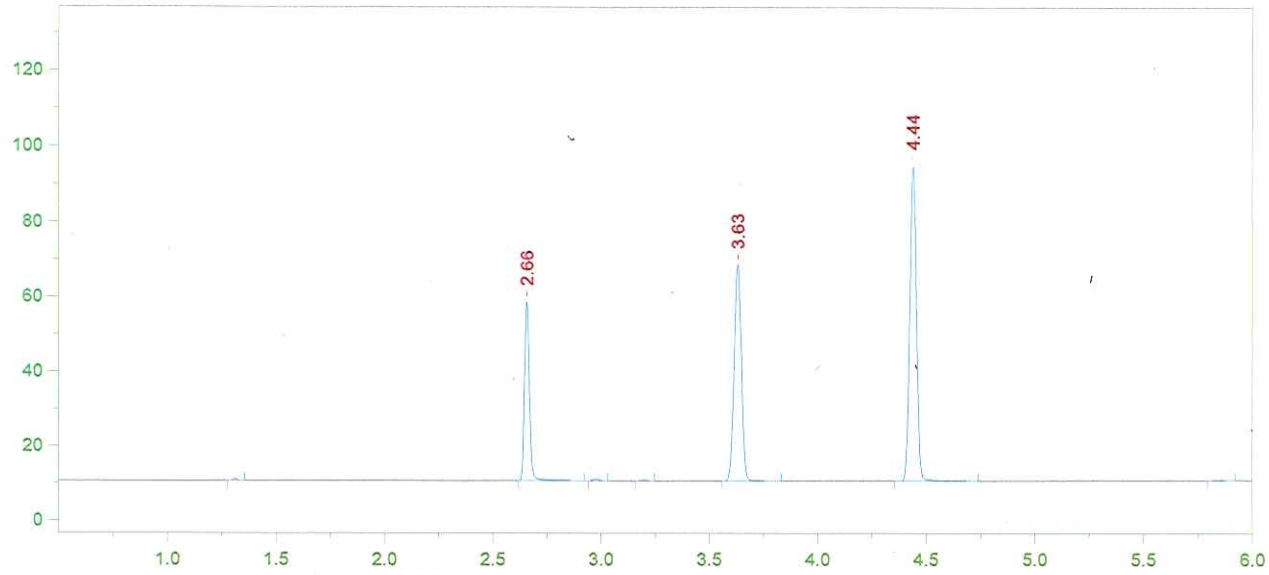


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:32:29 AM
Bound File Name = VFL09292015.0036.RAW
Sample Name = CCS
Date Taken = 9/29/2015 11:50:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	73830	0.0768
5	3.63	t-Butanol	140792	1.0217
6	4.44	n-Propanol	179529	1.0000

1407031 BS 02C



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Bound File Name = VFL09292015.0037.RAW
Sample Name = CCS
Date Taken = 9/30/2015 12:04:50 AM
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL

Today's Time = 8:32:35 AM

VFL Headspace Alcohol

Calibration Version = 7

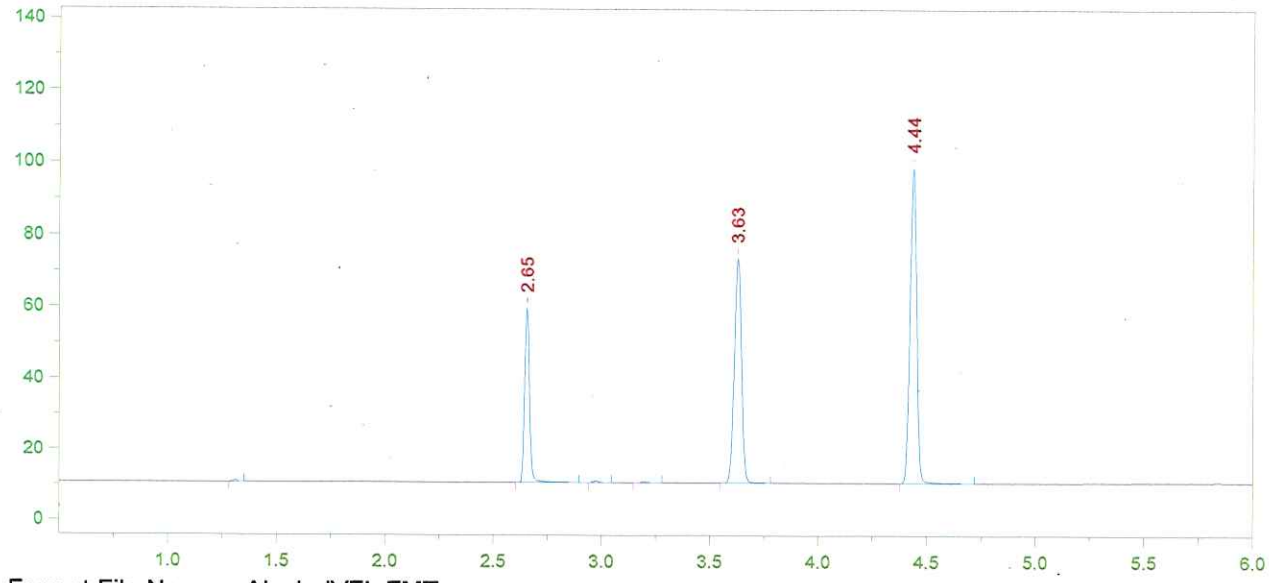
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	74548	0.0782
5	3.63	t-Butanol	134048	0.9812
6	4.44	n-Propanol	177983	1.0000

CCS MEAN: 0.0775 g/100 ml EtOH

±5% : 0.0736 - 0.0814

Recovery : $\frac{0.077}{0.080}$ = 96.2%

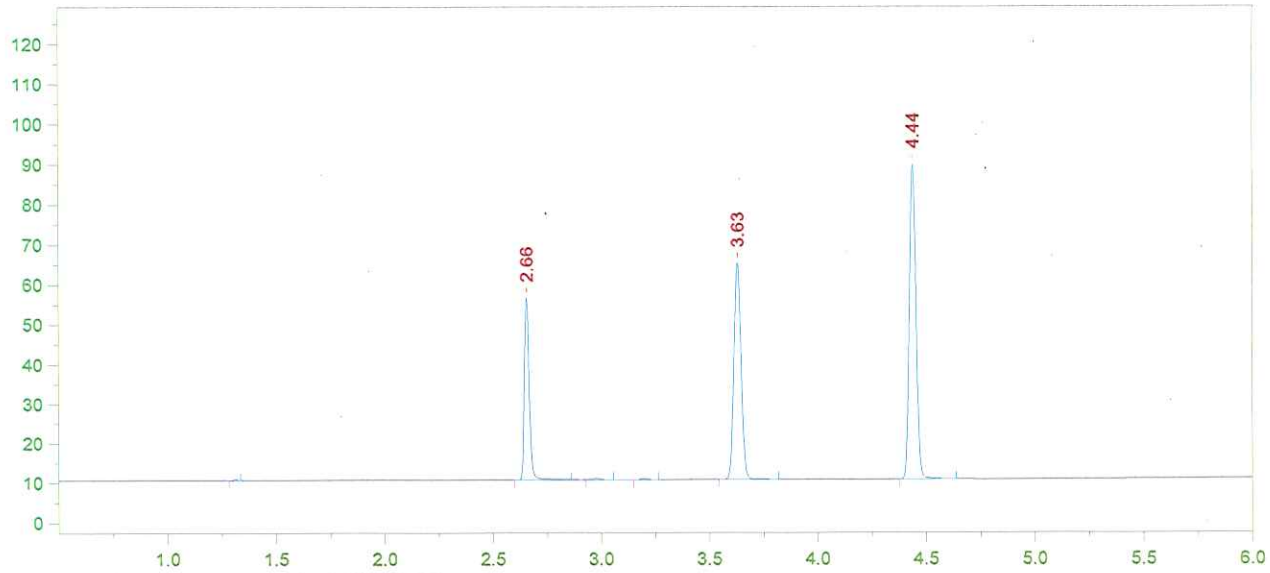
DG 9/30/15



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 8:33:40 AM
Bound File Name = VFL09292015.0048.RAW
Sample Name = CCS
Date Taken = 9/30/2015 2:56:18 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	76146	0.0764
5	3.63	t-Butanol	145749	1.0195
6	4.44	n-Propanol	186249	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Bound File Name = VFL09292015.0049.RAW
Sample Name = CCS
Date Taken = 9/30/2015 3:12:01 AM
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL

Today's Time = 8:33:46 AM

VFL Headspace Alcohol

Calibration Version = 7

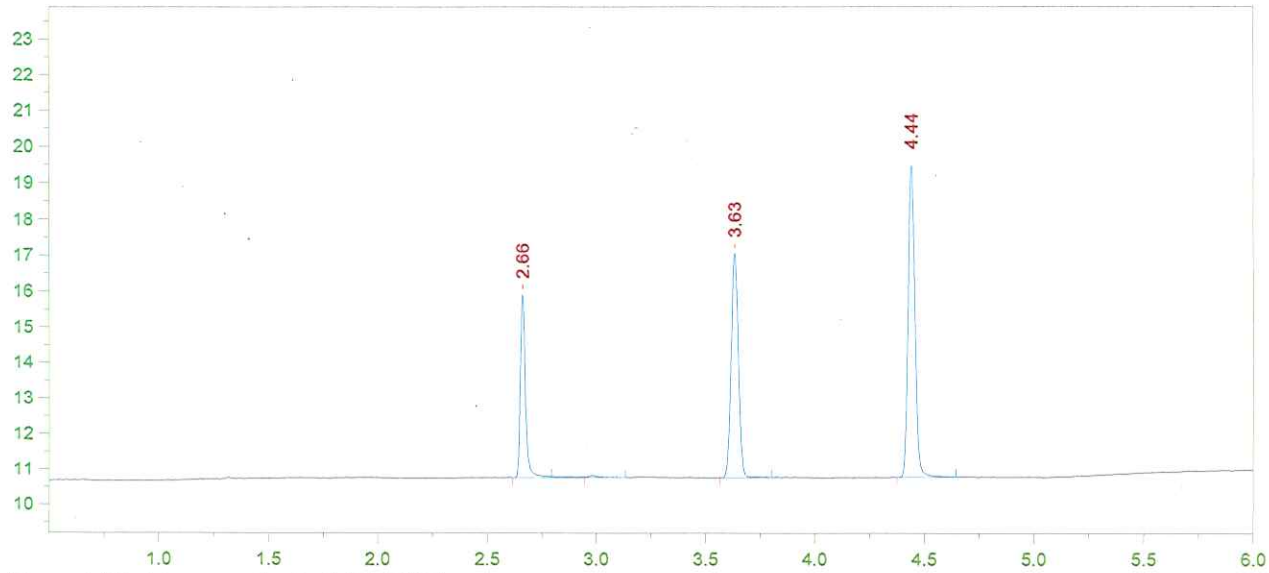
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	71317	0.0794
5	3.63	t-Butanol	126030	0.9785
6	4.44	n-Propanol	167799	1.0000

CCS Mean : 0.0779 g/100 ml EtOH

±5% = 0.0740 - 0.0818

Recovery: $\frac{0.078}{0.080}$ = 97.5%

[illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Bound File Name = VFL09292015.0059.RAW
Sample Name = CCS
Date Taken = 9/30/2015 5:48:12 AM
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL

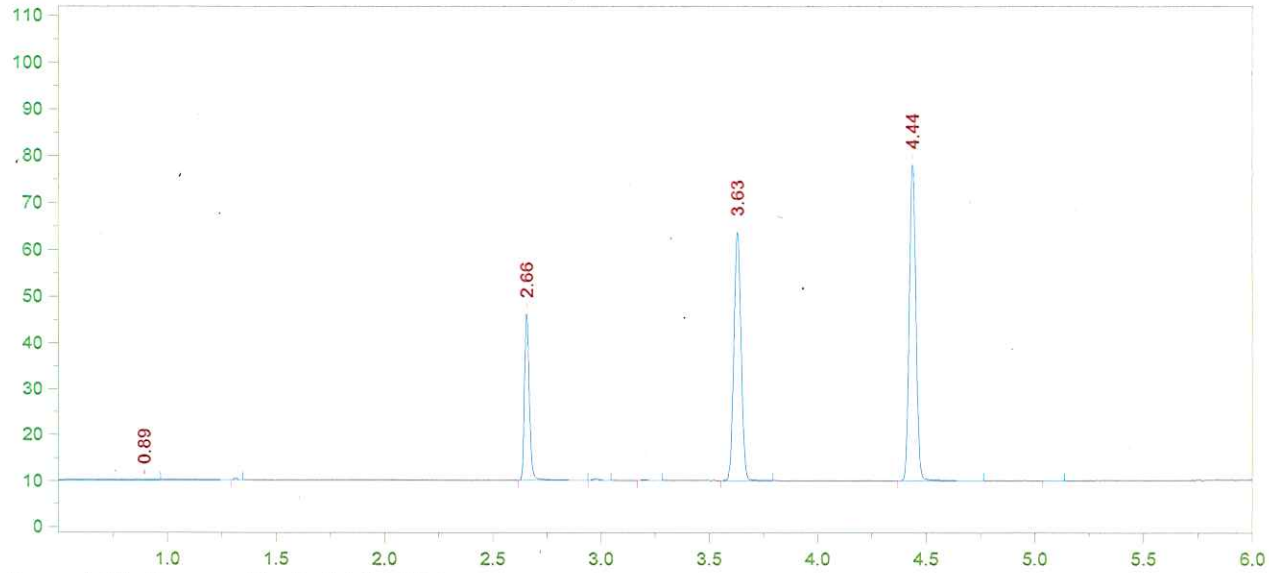
Today's Time = 8:34:48 AM

VFL Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
1	2.66	Ethanol	08318	0.0827
3	3.63	t-Butanol	14484	1.0048
4	4.44	n-Propanol	18780	1.0000

 1407031 [illegible] [illegible]



Format File Name = AlcoholVFL.FMT

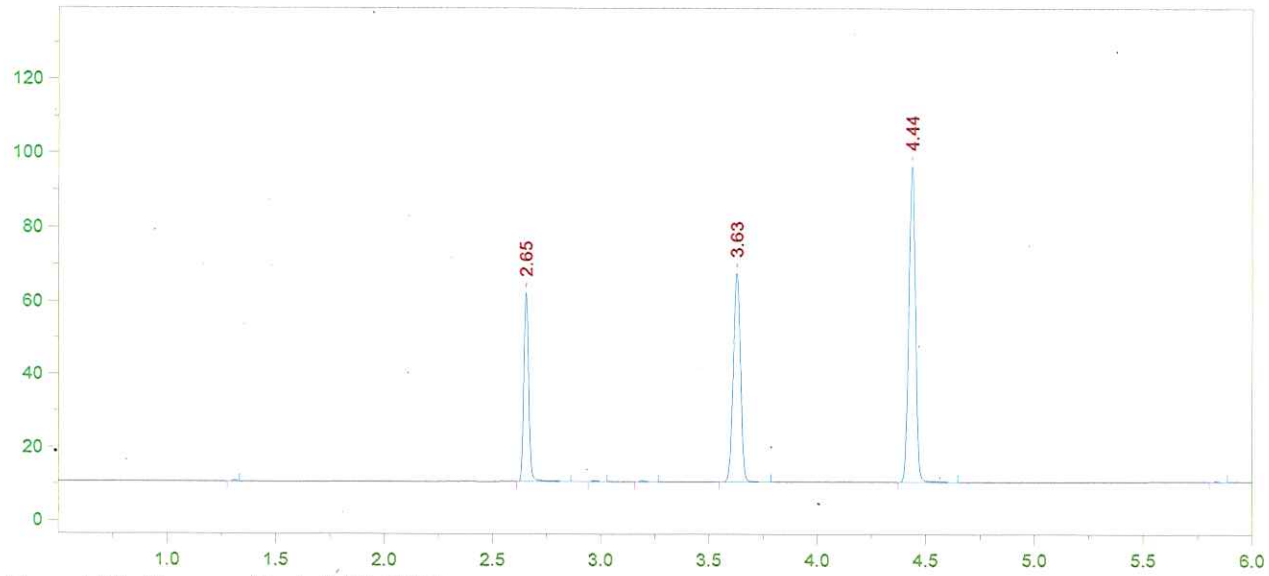
Today's Date = 9/30/2015
Today's Time = 8:34:54 AM
Bound File Name = VFL09292015.0060.RAW
Sample Name = CCS
Date Taken = 9/30/2015 8:14:14 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	56007	0.0726
6	3.63	t-Butanol	123514	1.1165
7	4.44	n-Propanol	144126	1.0000

CCS MEAN: 0.0776

±5%: 0.0737 - 0.0815

REPLICATES 1+2 OUTSIDE ±5% FROM MEAN DUE TO INSTRUMENT ERROR.
TWO ADDITIONAL CCS REPLICATES ANALYZED.

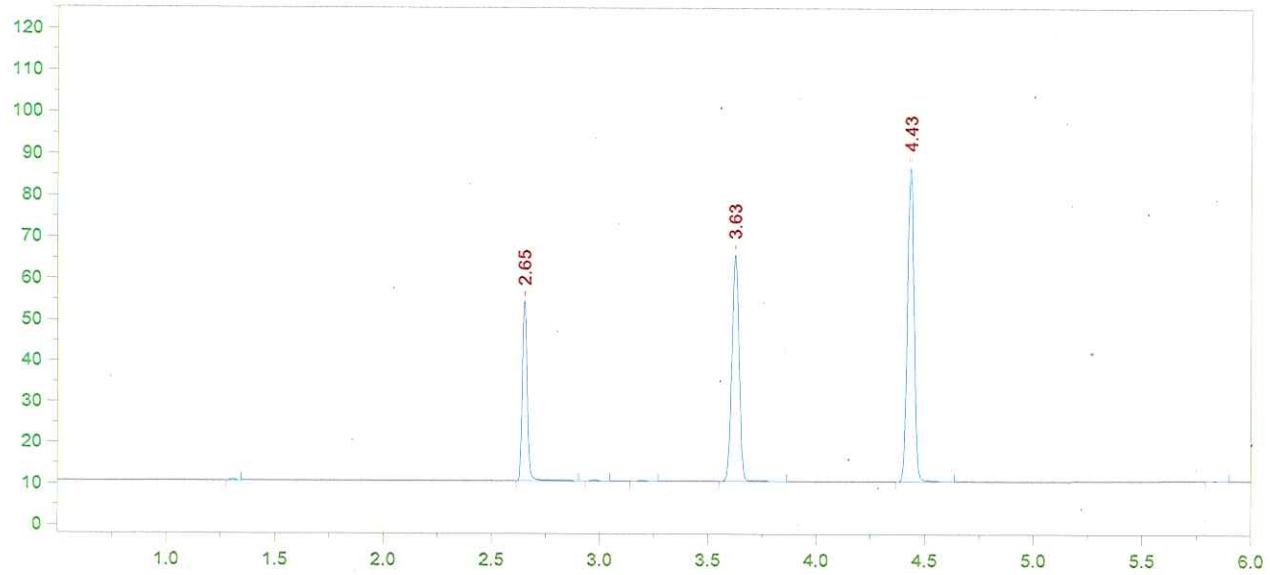


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 9:38:25 AM
Bound File Name = VFL09292015.0061.RAW
Sample Name = CCS
Date Taken = 9/30/2015 9:38:18 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80050	0.0824
5	3.63	t-Butanol	132137	0.9482
6	4.44	n-Propanol	181552	1.0000

1407031 035



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2015
Today's Time = 9:55:36 AM
Bound File Name = VFL09292015.0062.RAW
Sample Name = CCS
Date Taken = 9/30/2015 9:55:27 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09292015.CAL
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	69015	0.0798
5	3.63	t-Butanol	127345	1.0266
6	4.43	n-Propanol	161602	1.0000

CCS mean: 0.0811 g/100 mL EtOH

±5%: 0.0770 - 0.0851

Recovery: $\frac{0.081}{0.080}$: 101.2 %

140703I

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Whole Blood Ethanol Control Level 1

CE

INTENDED USE

FOR IN VITRO DIAGNOSTIC USE

LiquiSP$_x$™ Whole Blood Ethanol Control is an assayed quality control material intended for use in monitoring the accuracy and precision of the quantitative determination of ethanol in whole blood.

SUMMARY AND PRINCIPLE

This product is to be used exactly as directed for the patient sample in order to monitor, and thus minimize the potential for technical and performance errors in routine testing.

PRODUCT DESCRIPTION

LiquiSP$_x$ Whole Blood Ethanol Control is prepared from stabilized normal human whole blood with the addition of ethanol. This product has been assigned lot-specific ethanol values using quantitative analytical methods. This product is packaged 5.0 mL per vial.

2°C – 8°C

STORAGE AND STABILITY

LiquiSP$_x$ Whole Blood Ethanol Control is stable until the expiration date on the package when stored unopened at 2-8° C and 45 days after opening when stored at 2-8° C. Discard any contaminated material. Microbial contamination is evidenced by an increase in turbidity and/or a characteristic odor.

⚠ PRECAUTIONS

Human source material. Treat as potentially infectious.

Each serum/plasma donor unit used in the manufacture of this product has been tested by FDA accepted methods and found non-reactive for the presence of HBsAg and antibody to HIV-1/2, HCV and HIV-1 Ag. While these methods are highly accurate, they do not guarantee that all infected units will be detected. Because no known test method can offer complete assurance the hepatitis B virus, hepatitis C virus, human immunodeficiency virus (HIV) or other infectious agents are absent, all products containing human source material should be considered potentially infectious and handled with the same precautions used with patient specimens.

This product contains 0.09% sodium azide as a preservative. Sodium azide may react with lead and copper plumbing to form potentially explosive compounds. Flush with excess water upon disposal.

PROCEDURE

Allow the refrigerated controls to warm to room temperature (18-25° C) and gently swirl the control material prior to use in order to ensure product homogeneity. QC materials should be used in accordance with local, state, and/or federal regulations or accreditation requirements.

LIMITATIONS

This material is a control for methods listed in the ASSIGNED VALUES section; it is not to be used as a calibrator. Accurate and reproducible results are dependent upon properly functioning instruments, reagents, standardization, and proper laboratory techniques. Individual laboratories may not obtain the mean assigned value as listed.

VALUE ASSIGNMENT

The mean values and expected ranges printed in this insert were derived from extensive replicate analyses and are specific for this lot.

Values listed below were generated by Cliniqa, the reagent/instrument manufacturer and/or independent laboratories in accordance with an established protocol.

Procedural or assay modifications may alter the mean value obtained. Each laboratory should establish its own parameters of precision; use the mean assigned values and expected ranges provided only as guidelines.

ASSIGNED VALUES

Level 1		Lot No.: 1407031 Exp. Date: 2018-07	
Method	**Units**	**Mean**	**Expected Range**
Gas Chromatography	mg/dL	71.6	57.3 – 85.9

REFERENCES

Baselt, R.C. Analytical Procedures for Therapeutic Drug Monitoring and Emergency Toxicology. Littleton, MA, PSG Publishing, 1987.

IVD **For in vitro diagnostic use**

See package insert for proper use

CLINIQA CORPORATION
288 Distribution St.
San Marcos, CA 92078
USA

SALES AND TECHNICAL SUPPORT
P: 800 728 5205
+1 760 744 1900
F: +1 760 571 5198
www.cliniqa.com

FOR ORDERS AND CUSTOMER SERVICE
P: 800 728 5205
+1 760 744 1900
F: +1 760 571 5197
csgroup@cliniqa.com

EC REP
CEpartner4U
Esdoornlaan 13
3951 DB Maarn, The Netherlands
P: +31 (0)6 516 536 26

RE-ORDER INFORMATION
Whole Blood Ethanol Control

Catalog No.	Catalog No.
REF 93211	REF 93212
Level 1, 6 x 5 mL	Level 2, 6 x 5 mL

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