VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION REVIEW CHECKLIST

SOLUTION TYPE AND VOLUME: External Standard Solution 20L

LOT NUMBER#: 15-05-100 **ANALYST:** RLM

TECHNICAL REVIEWER: AB **DATE:** 2/26/15

- [x] QC done and complete?
- [x] Pertinent standard lot numbers listed?
- [x] Data package complete?
- [x] Transcribed data and calculations verified?
- [x] Calibration and control results all within ± 10% (± 20% for Std A) of the known values?
- [x] Calibration line correlation factor at least 0.99xx?
- [x] Average error for components of the calibration line less than 10%?
- [x] Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
- [x] Surrogate compound concentrations all within 0.900 to 1.100 range, inclusive?
- [x] Statistical means of the continuing calibration check sample duplicate analysis all within +/- 10% of the known value?
- [x] Calculated average within acceptable range of the target concentration for specific solution type?
- [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: [illegible] **DATE:** 2/26/2015

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

Comments:

Check Mark or X = pass, NA= Not Applicable

VERMONT FORENSIC LABORATORY

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 External Standard Solution

On 2/19/2015, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 15-05-100 and an expiration date of 2/19/2016.

On 2/20/2015 and 2/23/2015, the solution was analyzed against calibration SIM02202015 and SIM02232015. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

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

Dated at Waterbury, Vermont this 26th day of February, 2015.

Rebecca Mead

Rebecca Mead

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 External Standard 20L
Lot # 15-05-100
Prepared 2/19/15 by ALB
Exp 2/19/16

ALB CAL SIM02202015
ALB/TLC Vials
Analyzed on 2/20/15

0.0999 ALB	
0.1015	
0.1006	
0.1023	
0.1005	
0.1022	
0.0995	
0.1004 TLC	
0.0996	
0.1003	
0.0988	
0.1008	
0.0991	
0.1002	

Ave. =	0.1004
Std Dev. =	0.0010
Min. =	0.0988
Max. =	0.1023

AQ QC Manf.	Cerilliant
AQ QC Lot #	FN021111-03
Cal Std A Lot #	FN01131401
Cal Std B Lot #	FN092710-01
Cal Std C Lot #	FN05211402
Cal Std D Lot #	FN032712-01
Cal Std E Lot #	FN012712-01
Int Std Lot #	IS-01132015
TMX Lot #	TMX-08112014

AQ Blank Lot# BL-01162015 ALB 2/20/15

RLM CAL SIM02232015
RLM/ALB Vials
Analyzed on 02/23/2015

0.0963 rlm	
0.0974	
0.0954	
0.0973	
0.0965	
0.0975	
0.0959	
0.1007 alb	
0.0998	
0.1009	
0.0979	
0.0995	
0.0993	
0.1006	

Ave. =	0.0982
Std Dev. =	0.0019
Min. =	0.0954
Max. =	0.1009

AQ QC Manf.	Cerilliant
AQ QC Lot #	FN021111-03
Cal Std A Lot #	FN01131401
Cal Std B Lot #	FN092710-01
Cal Std C Lot #	FN05211402
Cal Std D Lot #	FN032712-01
Cal Std E Lot #	FN012712-01
Int Std Lot #	IS-01132015
TMX Lot #	TMX-08112014

AQ Blank Lot #: BL-01162015 RLM 2/24/15

Total Values from Both Runs

Average	**Mean**
0.0999	0.0954
0.1015	0.0959
0.1006	0.0963
0.1023	0.0965
0.1005	0.0973
0.1022	0.0974
0.0995	0.0975
0.1004	0.0979
0.0996	0.0988
0.1003	0.0991
0.0988	0.0993
0.1008	0.0995
0.0991	
0.1002	0.0996
0.0963	0.0998
0.0974	0.0999
0.0954	0.1002
0.0973	0.1003
0.0965	0.1004
0.0975	0.1005
0.0959	0.1006
0.1007	
0.0998	0.1007
0.1009	0.1008
0.0979	0.1009
0.0995	0.1015
0.0993	0.1022
0.1006	0.1023

Ave. =	0.0993
Avg Std Dev. =	0.0019
Mean =	0.0993
Mean Std Dev. =	0.0019
Min. =	0.0954
Max =	0.1023
RPD =	6.95%

File Name: C:\Methods\SIM02202015.CAL
Version: 7

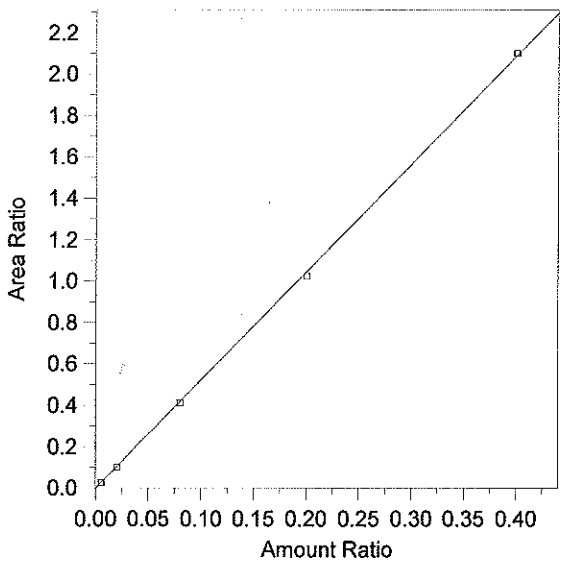
Creator:
Description:
Reason for change:

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

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

All levels are normal data points.

3 Ethanol



Expected retention time: 2.657 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

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

Single peak quantification by area

$Y = 5.222476 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9997774
Average error: 1.471%
Average CF: 5.157777
RSD: 1.416%

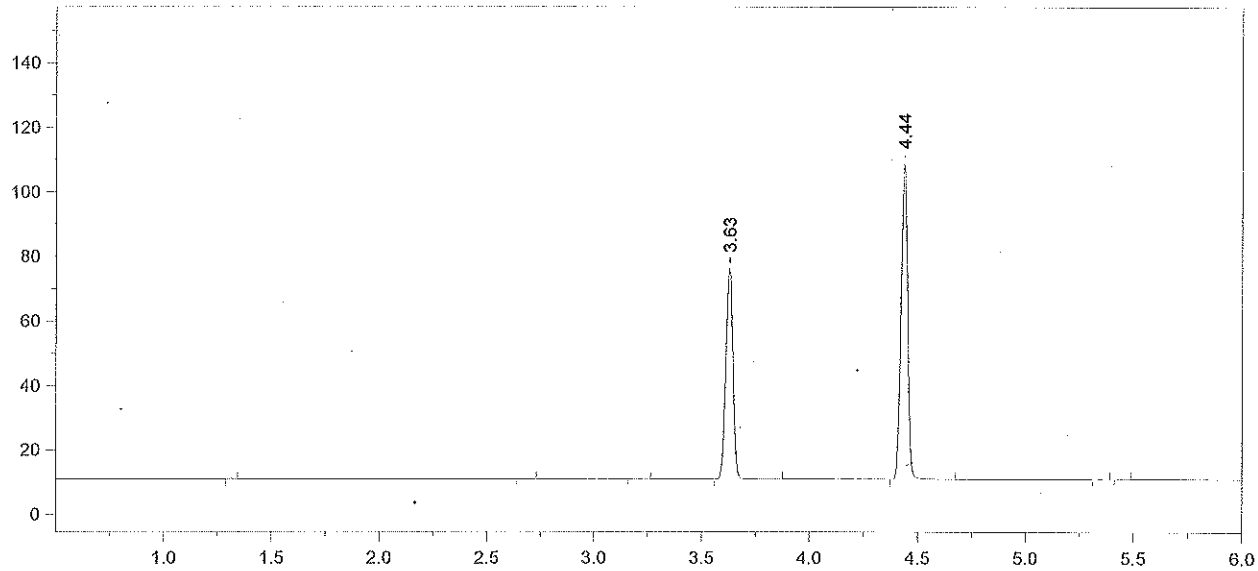
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.005	5193.81	1038762	-0.350	0.005	2.602092E-02	C:\Alcohol Data\SIM02202015\SIM02202015.0003.BND	2/20/2015 2:20:23 PM
3	0.02	18698.51	934925.5	-2.975	0.02	0.1013423	C:\Alcohol Data\SIM02202015\SIM02202015.0004.BND	2/20/2015 2:37:46 PM
4	0.08	80588.78	1007360	-1.378	0.08	0.4120414	C:\Alcohol Data\SIM02202015\SIM02202015.0005.BND	2/20/2015 2:51:34 PM
5	0.2	191123.7	955618.5	-2.072	0.2	1.022854	C:\Alcohol Data\SIM02202015\SIM02202015.0006.BND	2/20/2015 3:09:07 PM
6	0.4	385383.2	963457.9	0.581	0.4	2.101119	C:\Alcohol Data\SIM02202015\SIM02202015.0007.BND	2/20/2015 3:23:42 PM

15-05-100 2 Ken

File Name = C:\Alcohol Data\SIM02202015\SIM02202015.SEQ
Version = 1
File Date = 2/20/2015 1:12:35 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM02202015.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM02202015.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM02202015.0003.raw	Blood Alc temp VFL.MET	Std A	1.00	1.00
4	SIM02202015.0004.raw	Blood Alc temp VFL.MET	Std B	1.00	1.00
5	SIM02202015.0005.raw	Blood Alc temp VFL.MET	Std C	1.00	1.00
6	SIM02202015.0006.raw	Blood Alc temp VFL.MET	Std D	1.00	1.00
7	SIM02202015.0007.raw	Blood Alc temp VFL.MET	Std E	1.00	1.00
8	SIM02202015.0008.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
9	SIM02202015.0009.raw	Blood Alc temp VFL.MET	AQ	1.00	1.00
10	SIM02202015.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM02202015.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM02202015.0012.raw	simsoln.met	0.10 ALB	1.00	1.00
13	SIM02202015.0013.raw	simsoln.met	0.10 ALB	1.00	1.00
14	SIM02202015.0014.raw	simsoln.met	0.10 ALB	1.00	1.00
15	SIM02202015.0015.raw	simsoln.met	0.10 ALB	1.00	1.00
16	SIM02202015.0016.raw	simsoln.met	0.10 ALB	1.00	1.00
17	SIM02202015.0017.raw	simsoln.met	0.10 ALB	1.00	1.00
18	SIM02202015.0018.raw	simsoln.met	0.10 ALB	1.00	1.00
19	SIM02202015.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM02202015.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM02202015.0021.raw	simsoln.met	0.10 TLC	1.00	1.00
22	SIM02202015.0022.raw	simsoln.met	0.10 TLC	1.00	1.00
23	SIM02202015.0023.raw	simsoln.met	0.10 TLC	1.00	1.00
24	SIM02202015.0024.raw	simsoln.met	0.10 TLC	1.00	1.00
25	SIM02202015.0025.raw	simsoln.met	0.10 TLC	1.00	1.00
26	SIM02202015.0026.raw	simsoln.met	0.10 TLC	1.00	1.00
27	SIM02202015.0027.raw	simsoln.met	0.10 TLC	1.00	1.00
28	SIM02202015.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM02202015.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

15-05-100 3 KEM

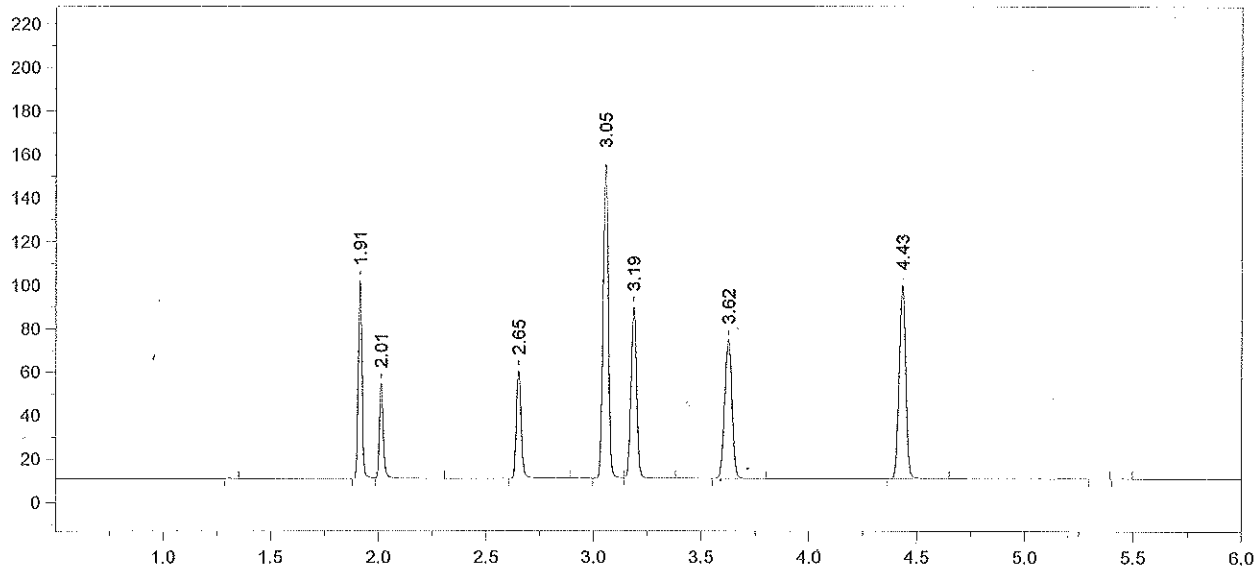


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:36:41 AM
Bound File Name = SIM02202015.0001.RAW
Sample Name = Blank
Date Taken = 2/20/2015 1:49:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	152132	0.9608
5	4.44	n-Propanol	206557	1.0000

15-05-100 4

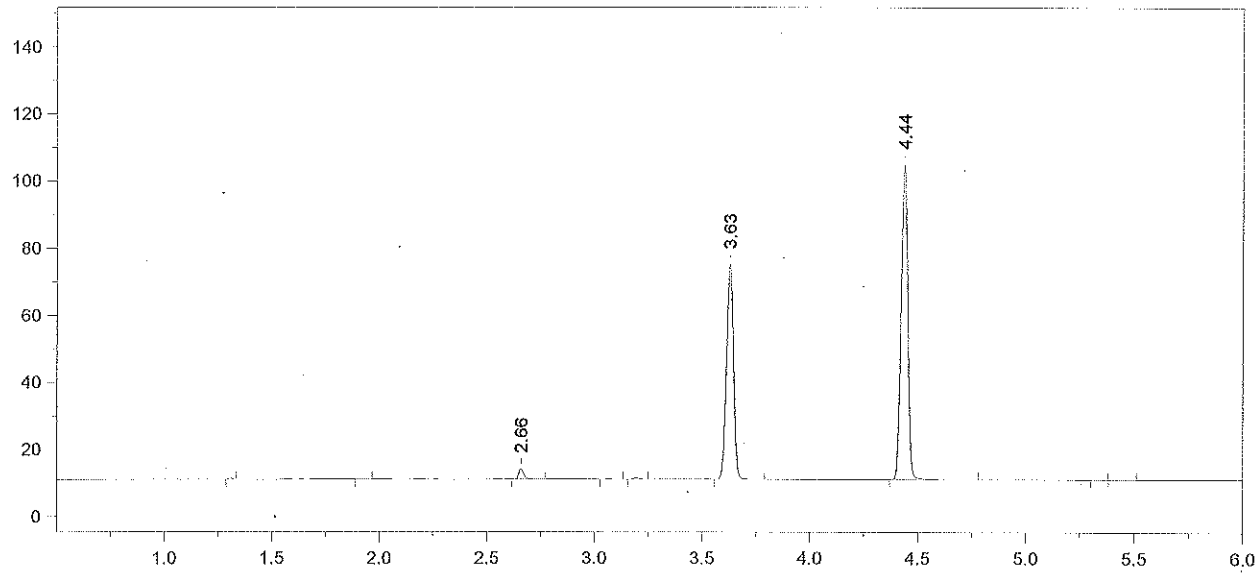


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:36:49 AM
Bound File Name = SIM02202015.0002.RAW
Sample Name = TMX
Date Taken = 2/20/2015 2:06:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	107043	0.0695
3	2.01	Methanol	55767	0.1232
4	2.65	Ethanol	77373	0.0787
5	3.05	Acetone	249774	0.0657
6	3.19	Isopropanol	147458	0.0848
7	3.62	t-Butanol	147519	1.0220
8	4.43	n-Propanol	188302	1.0000

15-05-100 5 RM

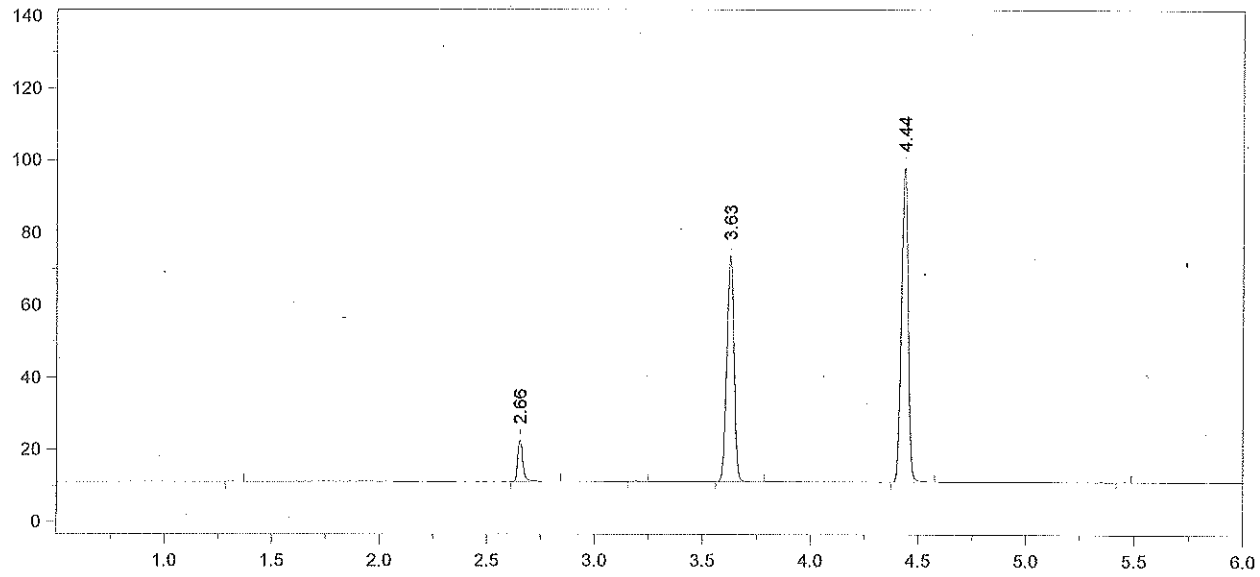


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:36:55 AM
Bound File Name = SIM02202015.0003.RAW
Sample Name = Std A
Date Taken = 2/20/2015 2:20:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05194	0.0050
6	3.63	t-Butanol	148700	0.9719
7	4.44	n-Propanol	199601	1.0000

15-05-100 6 RZM

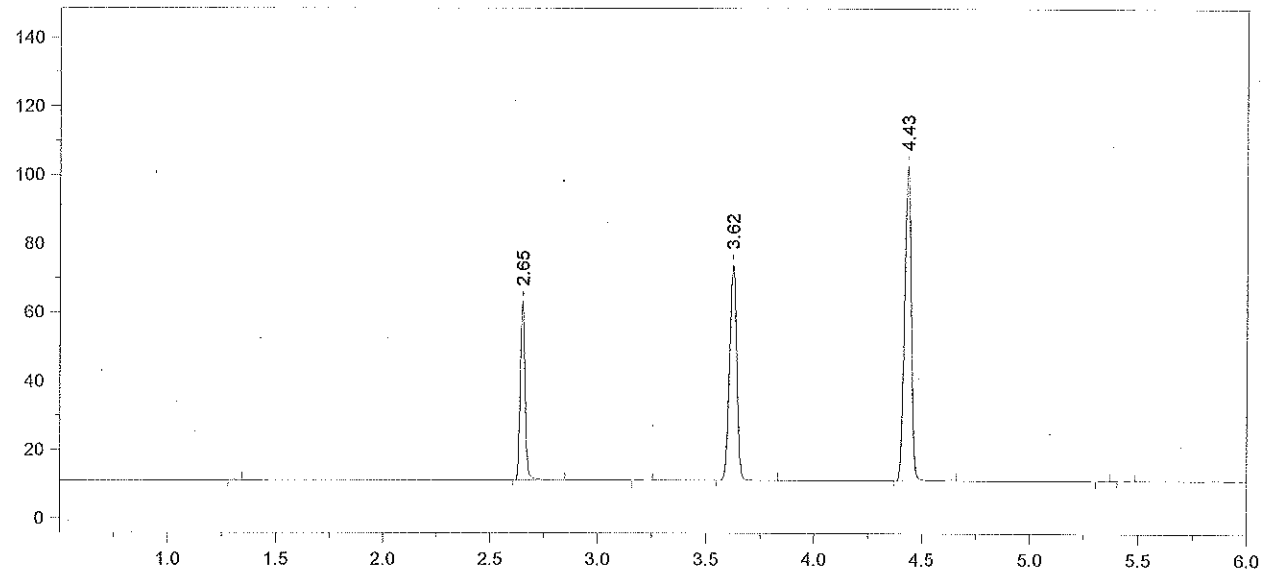


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:37:01 AM
Bound File Name = SIM02202015.0004.RAW
Sample Name = Std B
Date Taken = 2/20/2015 2:37:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	18699	0.0194 *
4	3.63	t-Butanol	145461	1.0285
5	4.44	n-Propanol	184508	1.0000

15-05-100 7

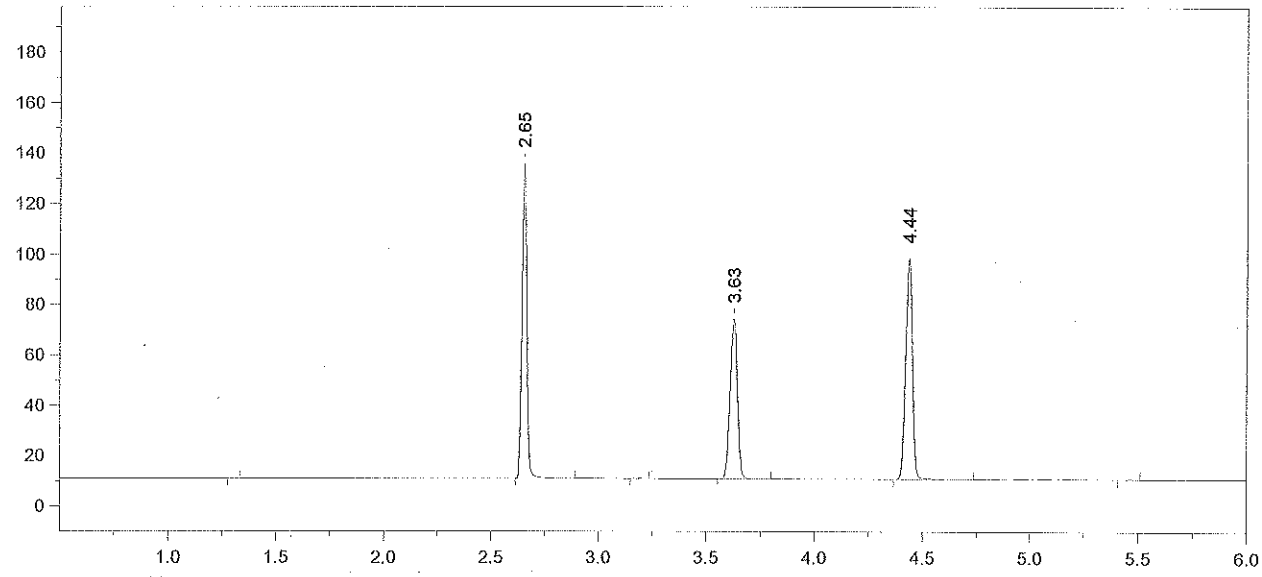


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:37:07 AM
Bound File Name = SIM02202015.0005.RAW
Sample Name = Std C
Date Taken = 2/20/2015 2:51:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80589	0.0789
4	3.62	t-Butanol	145756	0.9722
5	4.43	n-Propanol	195584	1.0000

15-05-100 8 KEN

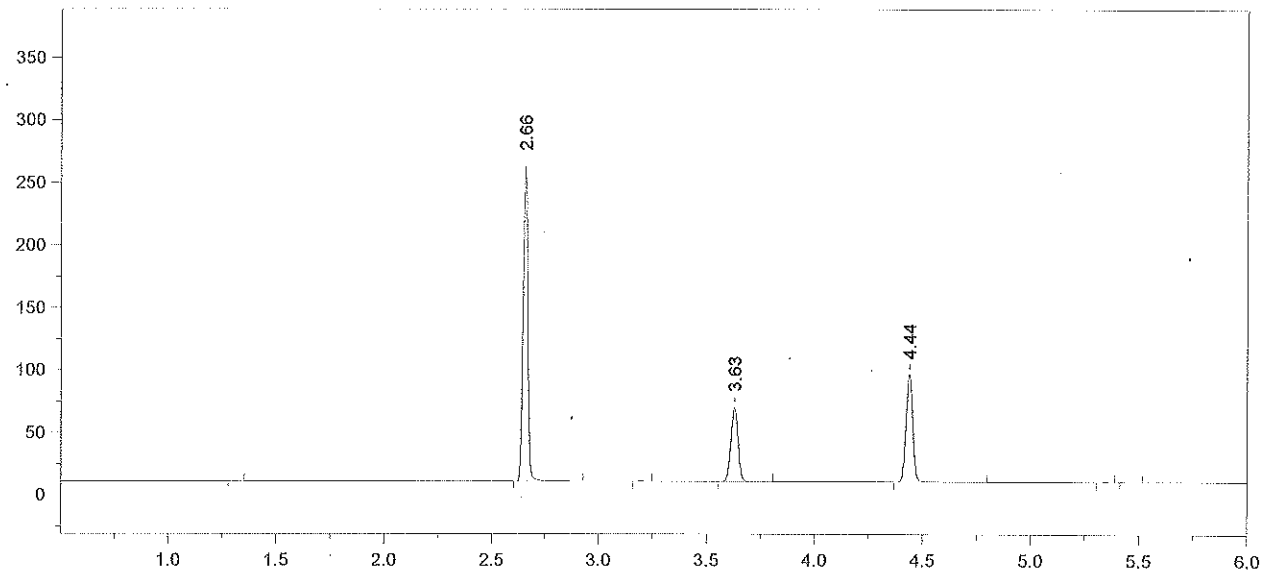


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:37:12 AM
Bound File Name = SIM02202015.0006.RAW
Sample Name = Std D
Date Taken = 2/20/2015 3:09:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	191124	0.1959
4	3.63	t-Butanol	147113	1.0271
5	4.44	n-Propanol	186853	1.0000

15-05-100 9 KEM

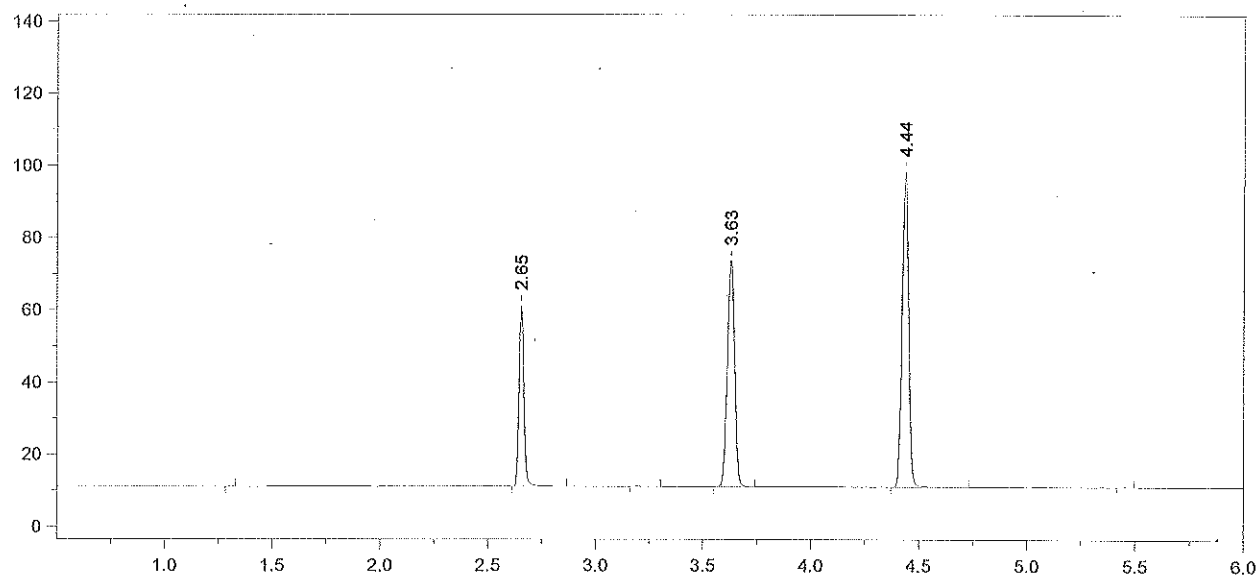


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:37:19 AM
Bound File Name = SIM02202015.0007.RAW
Sample Name = Std E
Date Taken = 2/20/2015 3:23:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	385383	0.4023
4	3.63	t-Butanol	137540	0.9783
5	4.44	n-Propanol	183418	1.0000

15-05-100 10 KM

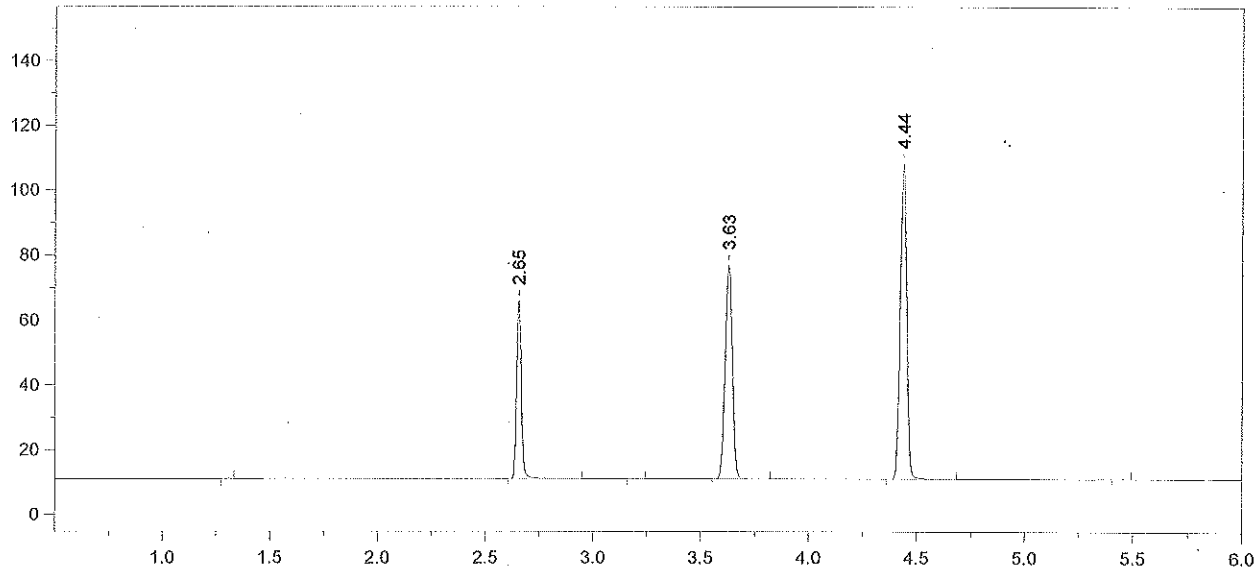


Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 3:40:41 PM
Bound File Name = SIM02202015.0008.RAW
Sample Name = AQ
Date Taken = 2/20/2015 3:40:31 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	77662	0.0804
4	3.63	t-Butanol	145668	1.0271
5	4.44	n-Propanol	185016	1.0000

15-05-100 11



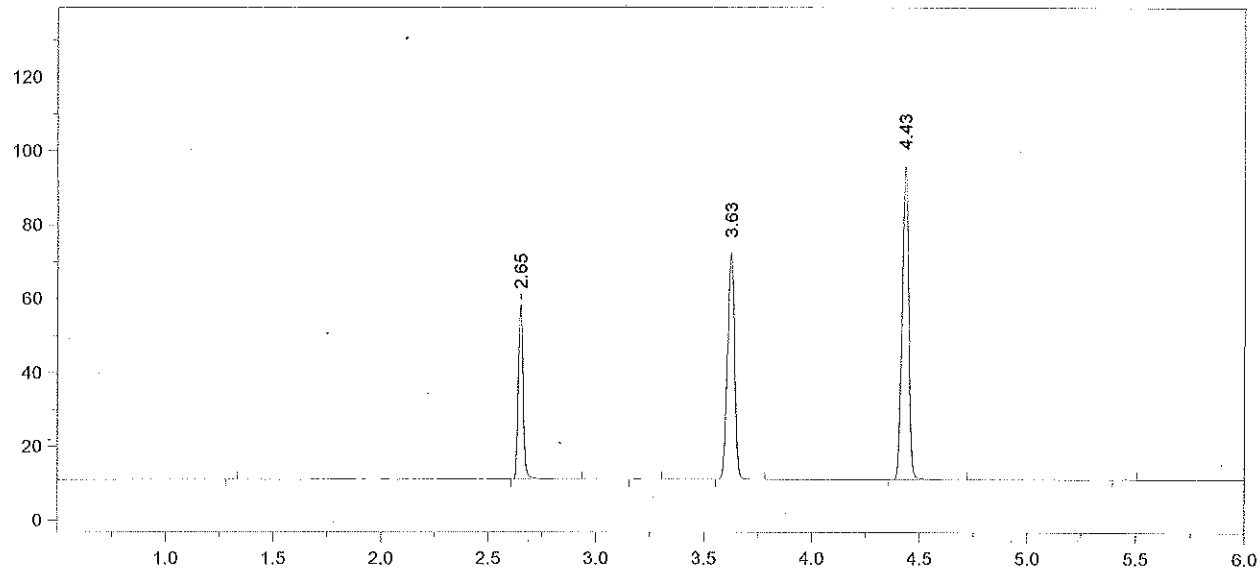
Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 3:54:32 PM
Bound File Name = SIM02202015.0009.RAW
Sample Name = AQ
Date Taken = 2/20/2015 3:54:24 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85180	0.0791 *
4	3.63	t-Butanol	152936	0.9675
5	4.44	n-Propanol	206228	1.0000

Avg vials 8 + 9 = 0.080 ethanol
TV = 0.080 100% recovery
2/23/15

15-05-100 12

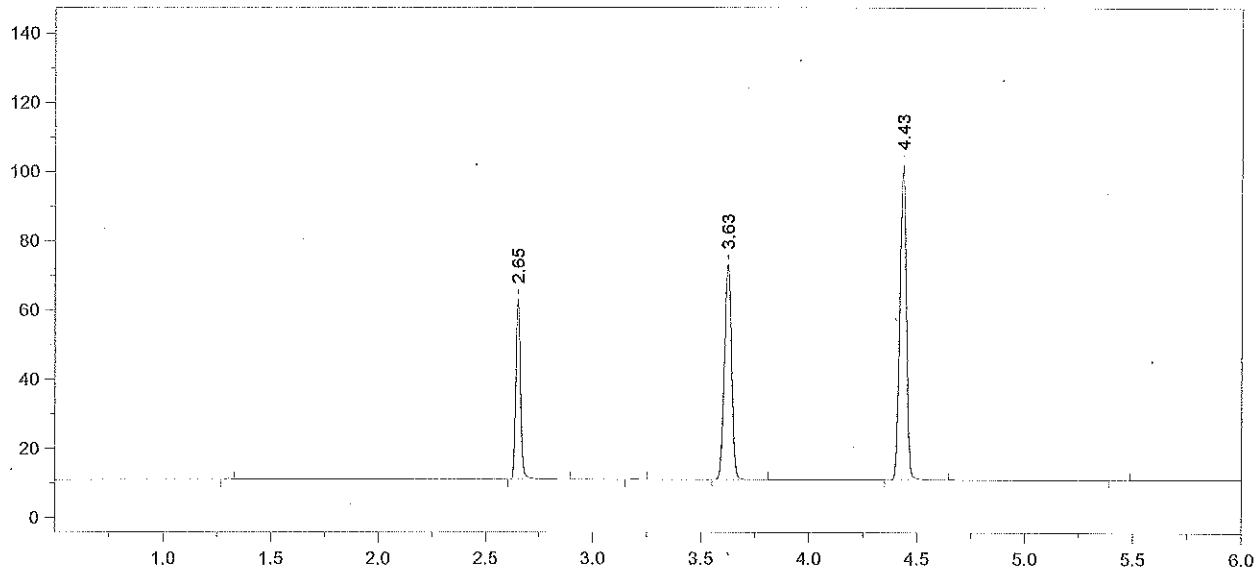


Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 4:12:06 PM
Bound File Name = SIM02202015.0010.RAW
Sample Name = CCS
Date Taken = 2/20/2015 4:11:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74337	0.0787
4	3.63	t-Butanol	142586	1.0281
5	4.43	n-Propanol	180939	1.0000

15-05-100 13



Format File Name = AlcoholVFL.FMT

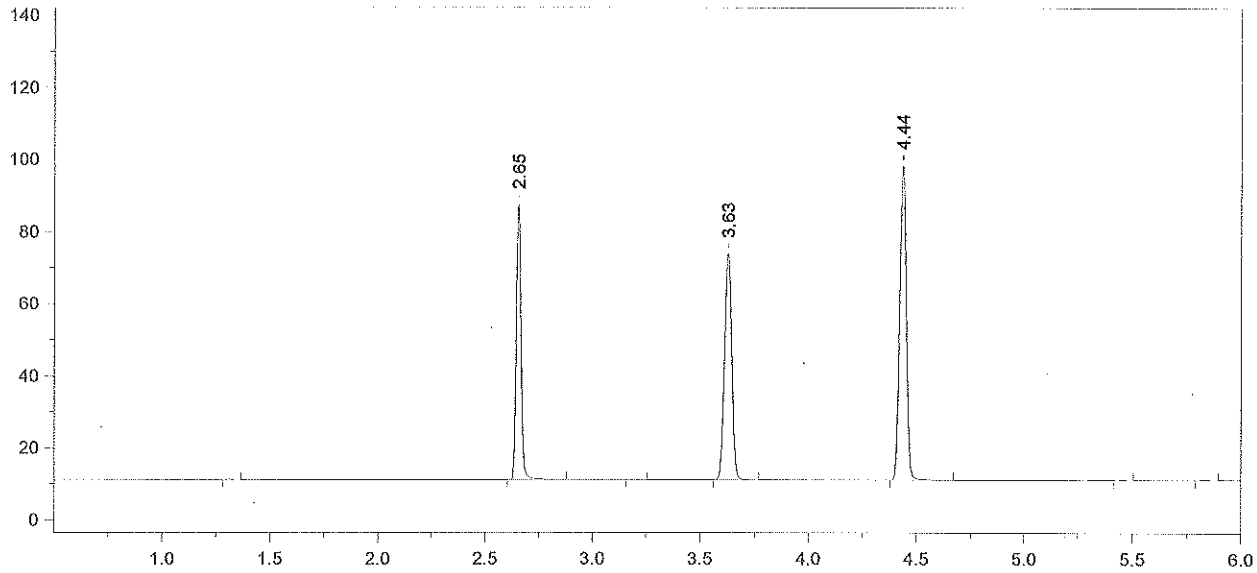
Today's Date = 2/20/2015
Today's Time = 4:25:21 PM
Bound File Name = SIM02202015.0011.RAW
Sample Name = CCS
Date Taken = 2/20/2015 4:25:16 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80925	0.0804
4	3.63	t-Butanol	144495	0.9783
5	4.43	n-Propanol	192684	1.0000

Avg vals 10 + 11 = 0.079

2/23/15 [illegible]

15-05-100 14 [illegible]

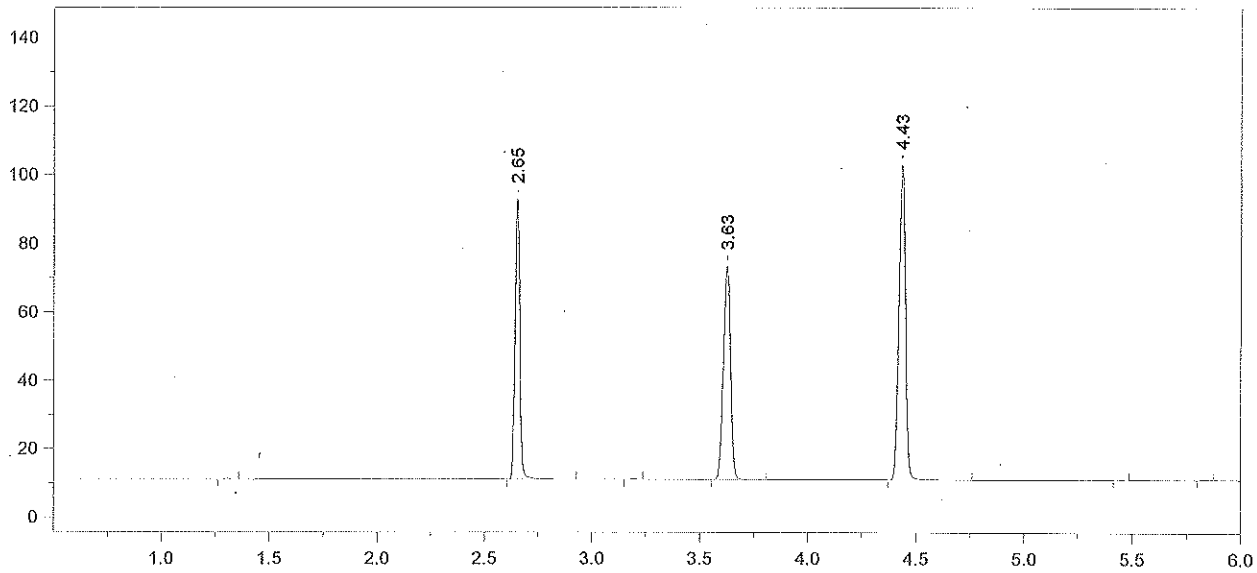


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Today's Time = 4:43:26 PM
Bound File Name = SIM02202015.0012.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 4:43:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	118032	0.1224	0.0999
4	3.63	t-Butanol	145845	1.0303	0.8410
5	4.44	n-Propanol	184665	1.0000	0.8162

15-05-100 15 Kem

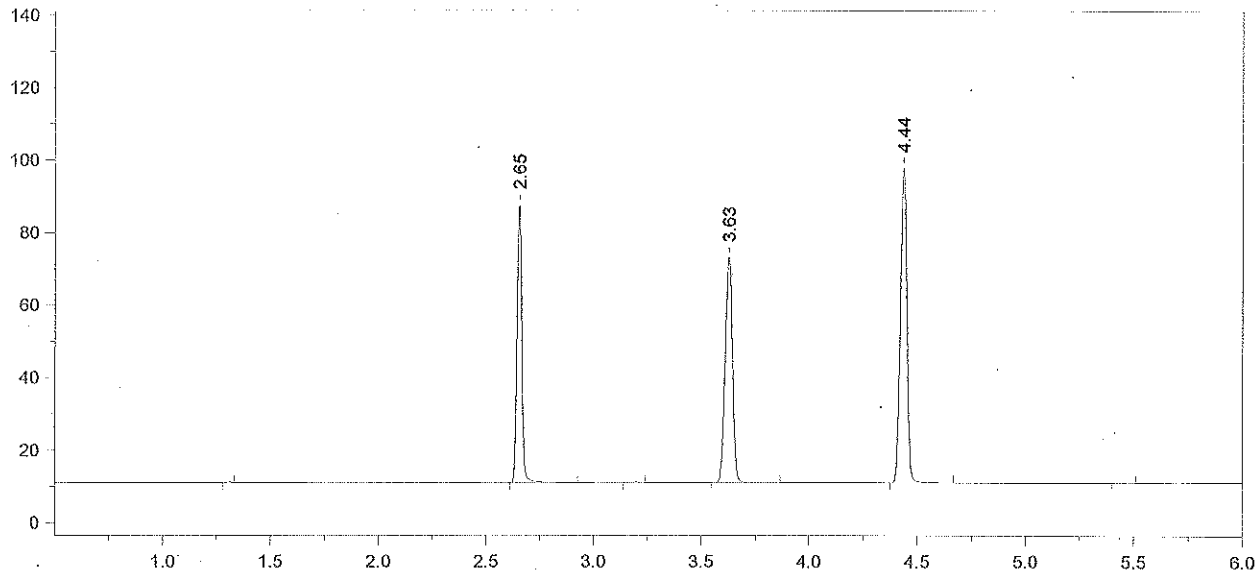


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Today's Time = 4:57:11 PM
Bound File Name = SIM02202015.0013.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 4:57:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127399	0.1244	0.1015
4	3.63	t-Butanol	144831	0.9636	0.7865
5	4.43	n-Propanol	196081	1.0000	0.8162

15-05-100 16

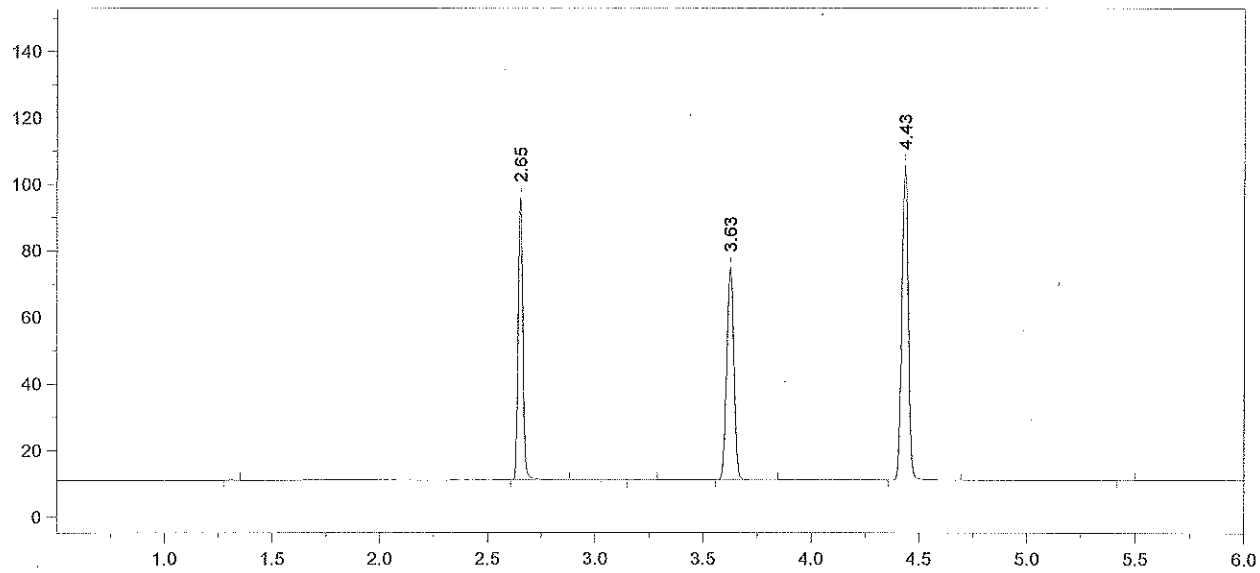


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 5:14:51 PM
Bound File Name = SIM02202015.0014.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 5:14:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	118622	0.1232	0.1006
4	3.63	t-Butanol	144203	1.0204	0.8328
5	4.44	n-Propanol	184369	1.0000	0.8162

15-05-100 17 Rem

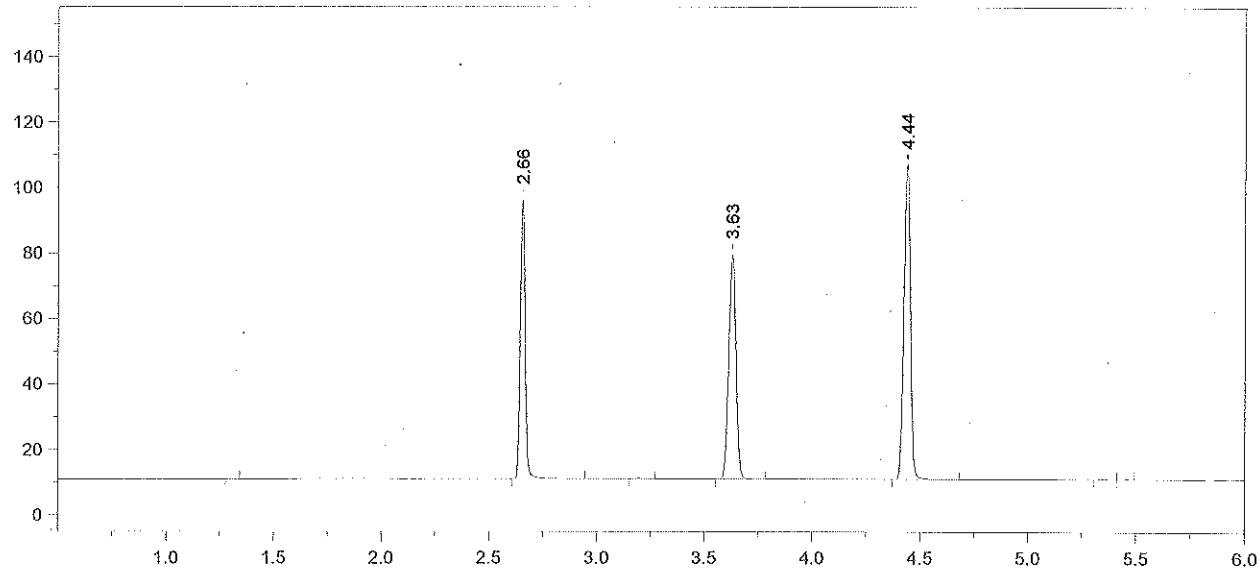


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 5:29:44 PM
Bound File Name = SIM02202015.0015.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 5:29:37 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131515	0.1254	0.1023
4	3.63	t-Butanol	148006	0.9613	0.7846
5	4.43	n-Propanol	200865	1.0000	0.8162

15-05-100 18 Kam



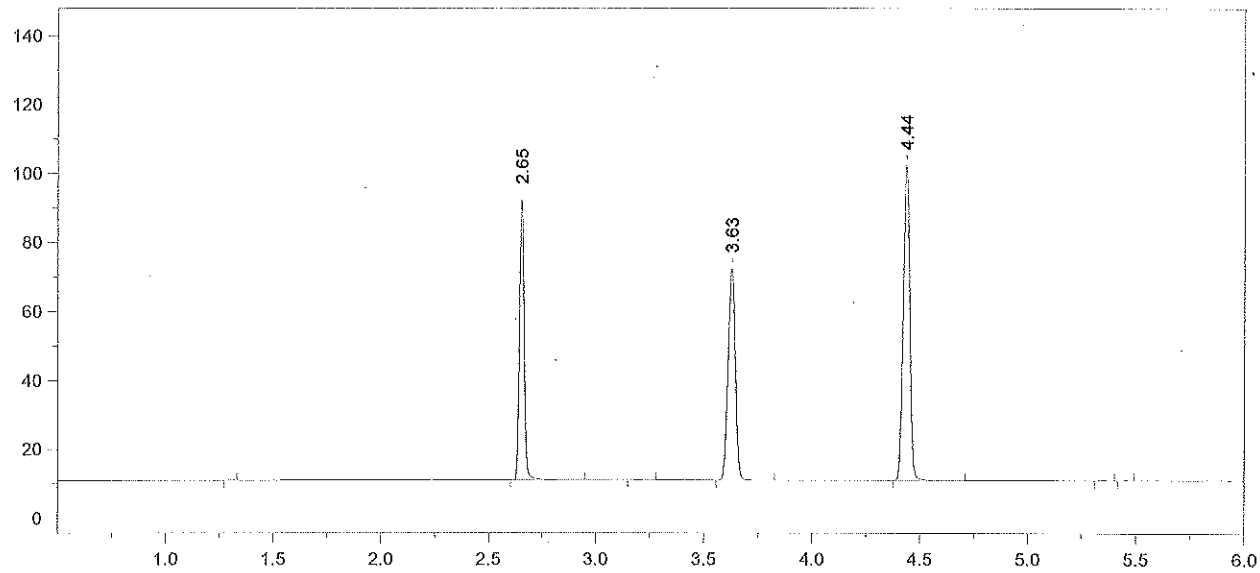
Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Today's Time = 5:44:37 PM
Bound File Name = SIM02202015.0016.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 5:44:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	132194	0.1231	0.1005
4	3.63	t-Butanol	159135	1.0097	0.8241
5	4.44	n-Propanol	205612	1.0000	0.8162

15-05-100

19

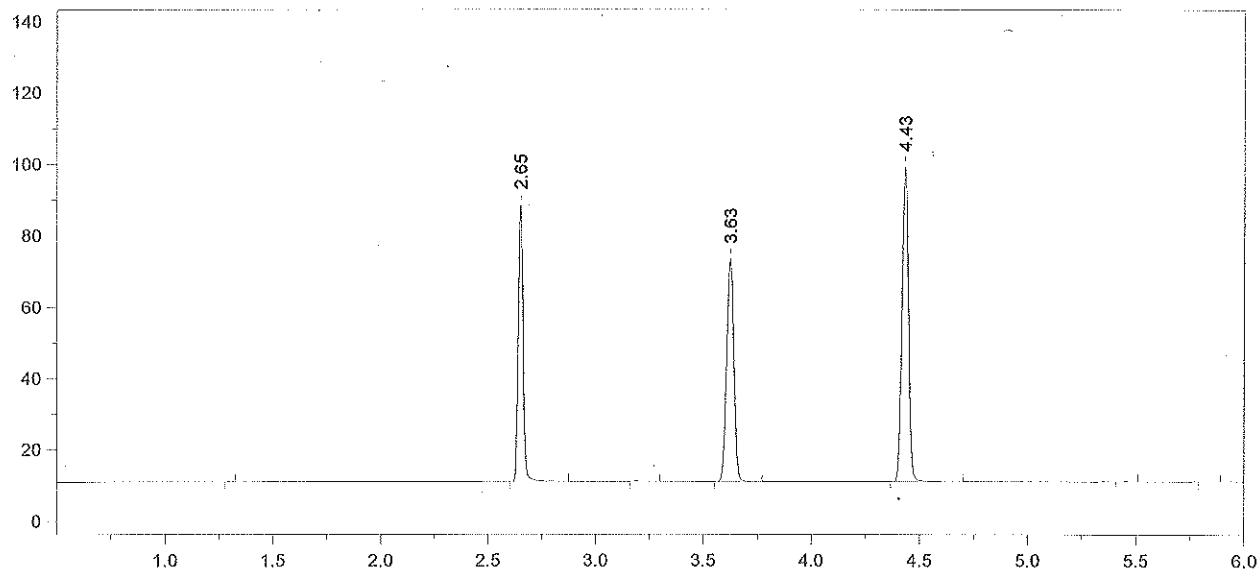


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Today's Time = 6:00:00 PM
Bound File Name = SIM02202015.0017.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 5:59:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126938	0.1252	0.1022
4	3.63	t-Butanol	142619	0.9587	0.7825
5	4.44	n-Propanol	194076	1.0000	0.8162

15-05-100 20 Ken

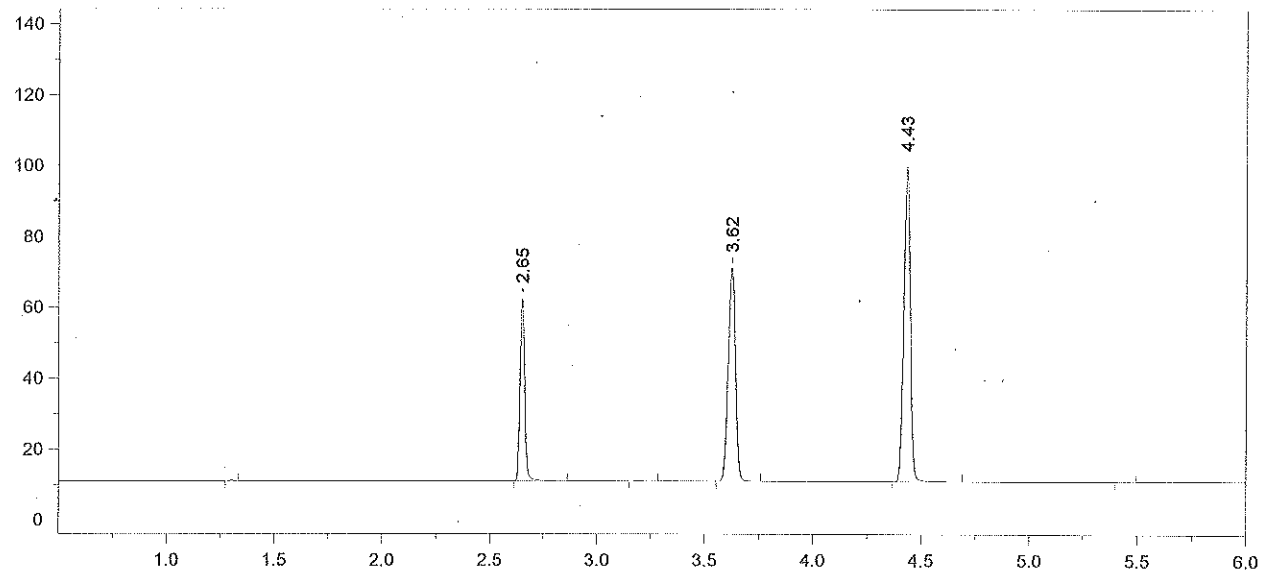


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 6:16:10 PM
Bound File Name = SIM02202015.0018.RAW
Sample Name = 0.10 ALB
Date Taken = 2/20/2015 6:16:02 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	119551	0.1219	0.0995
4	3.63	t-Butanol	145115	1.0084	0.8230
5	4.43	n-Propanol	187743	1.0000	0.8162

15-05-100 21 TLM

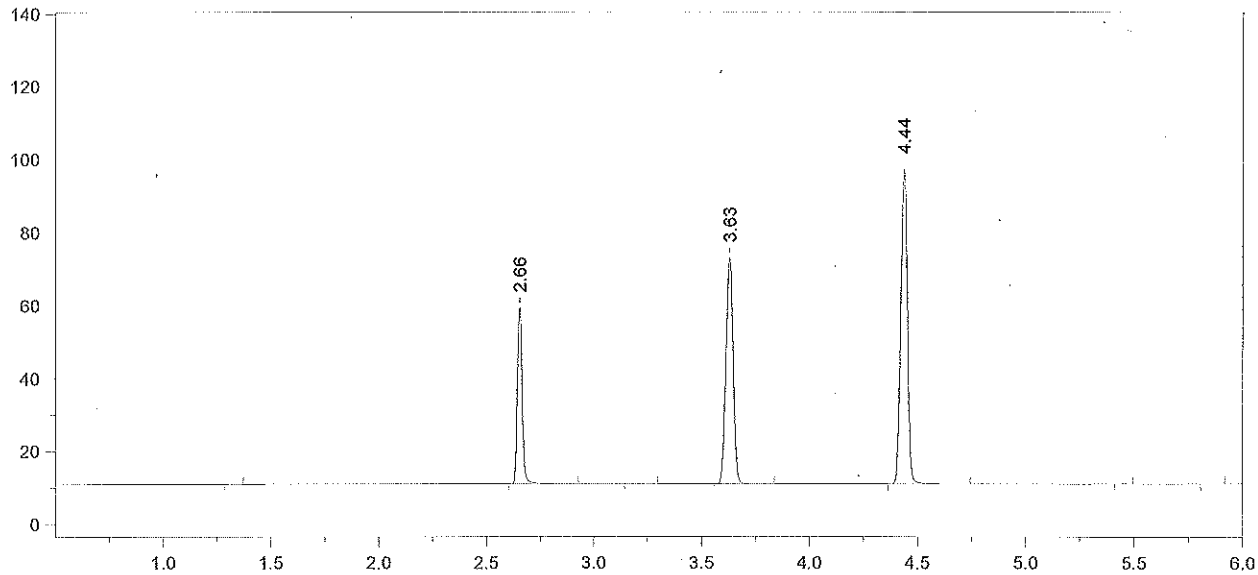


Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 6:30:27 PM
Bound File Name = SIM02202015.0019.RAW
Sample Name = CCS
Date Taken = 2/20/2015 6:30:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79725	0.0810
4	3.62	t-Butanol	139987	0.9692
5	4.43	n-Propanol	188436	1.0000

15-05-100 22 TEM



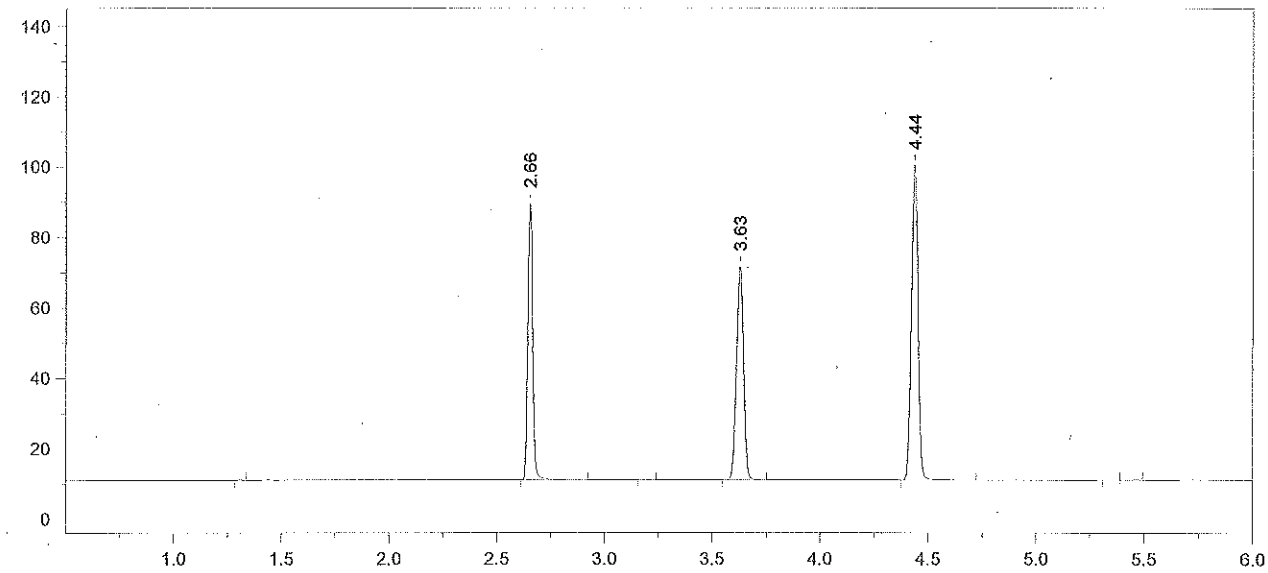
Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 6:47:38 PM
Bound File Name = SIM02202015.0020.RAW
Sample Name = CCS
Date Taken = 2/20/2015 6:47:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76061	0.0792
4	3.63	t-Butanol	143755	1.0197
5	4.44	n-Propanol	183921	1.0000

Avg vals 19 + 20 = 0.080
2/23/15 AB

15-05-100 23 KZm

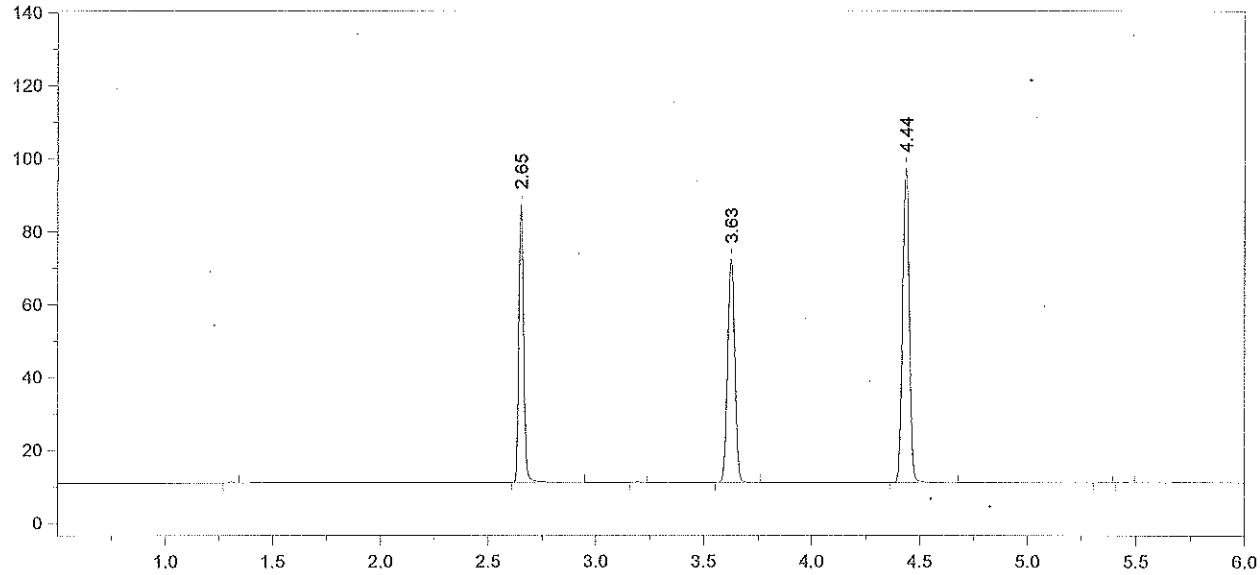


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Today's Time = 7:01:49 PM
Bound File Name = SIM02202015.0021.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 7:01:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	122595	0.1230	0.1004
4	3.63	t-Butanol	140163	0.9581	0.7820
5	4.44	n-Propanol	190855	1.0000	0.8162

15-05-100 24 RZR

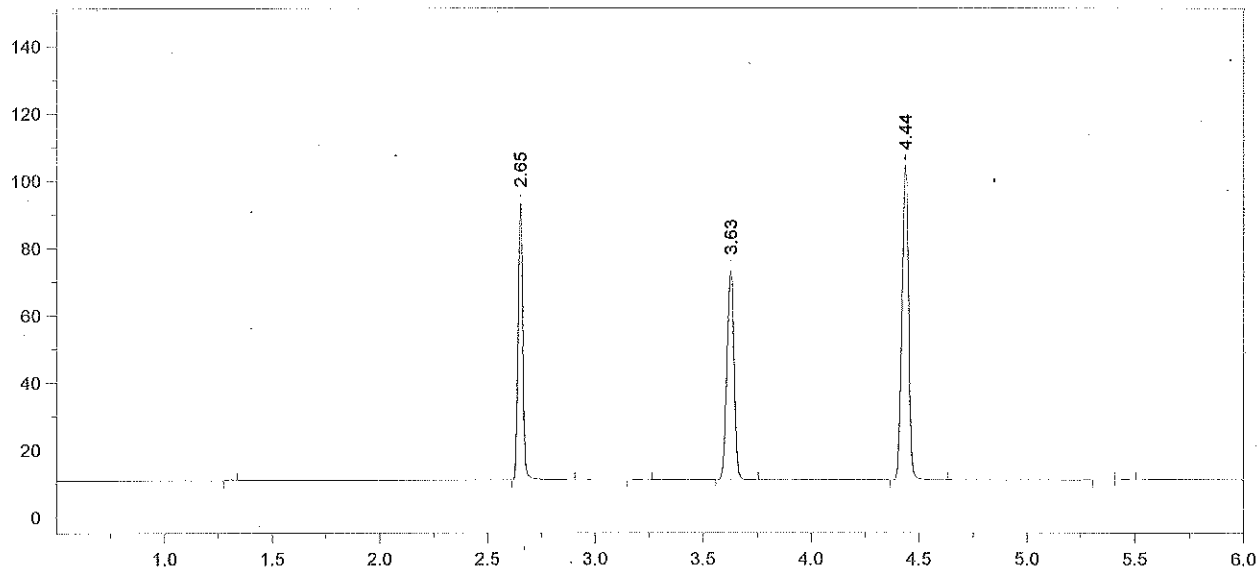


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 7:19:00 PM
Bound File Name = SIM02202015.0022.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 7:18:51 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117419	0.1221	0.0996
4	3.63	t-Butanol	141896	1.0051	0.8204
5	4.44	n-Propanol	184170	1.0000	0.8162

15-05-100 25

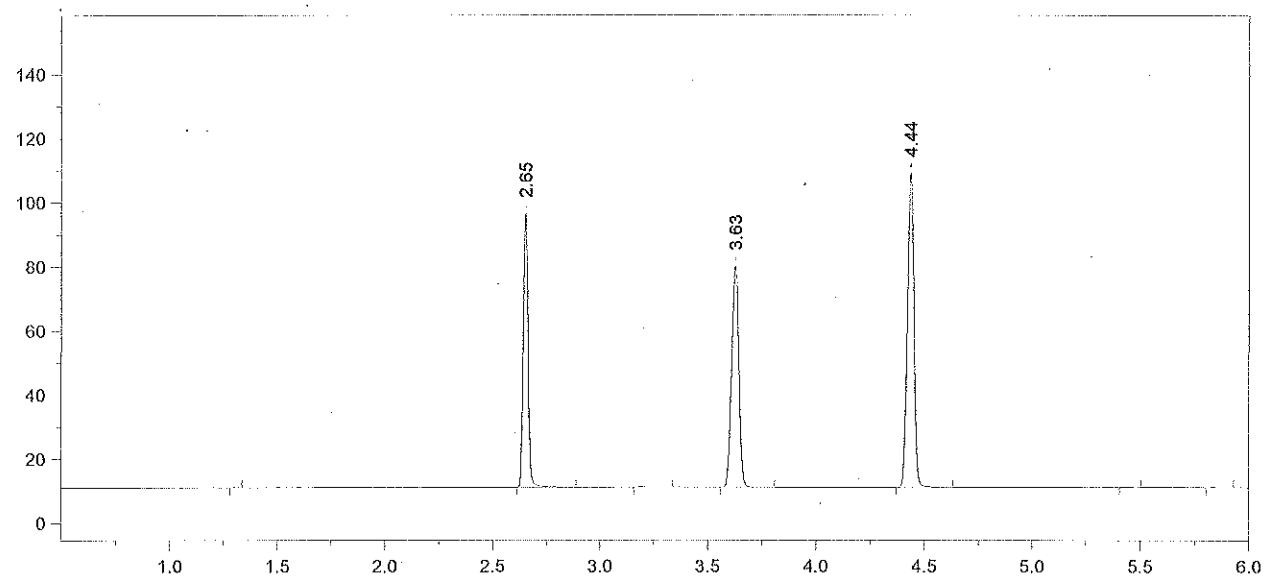


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Today's Time = 7:32:18 PM
Bound File Name = SIM02202015.0023.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 7:32:08 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127013	0.1229	0.1003
4	3.63	t-Butanol	144536	0.9527	0.7776
5	4.44	n-Propanol	197926	1.0000	0.8162

15-05-100 26 RZM



Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015
Bound File Name = SIM02202015.0024.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 7:48:35 PM
Method file = simsoln.met
Calibration file = SIM02202015.CAL

Today's Time = 7:48:39 PM

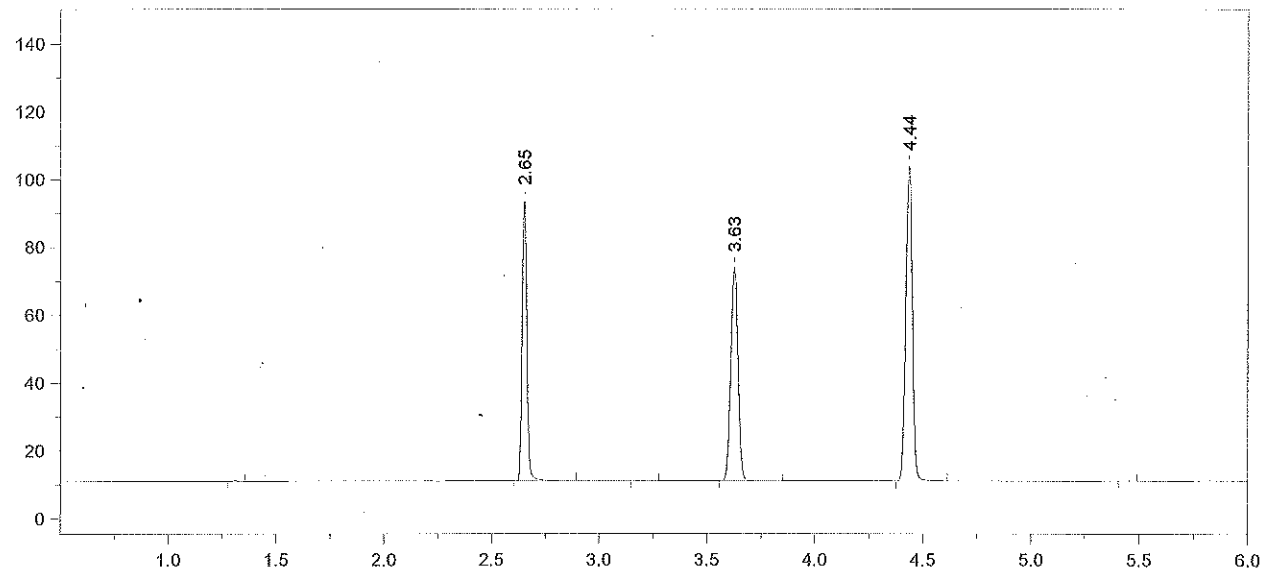
VDH Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131882	0.1210	0.0988
4	3.63	t-Butanol	160681	1.0048	0.8201
5	4.44	n-Propanol	208629	1.0000	0.8162

15-05-100

27

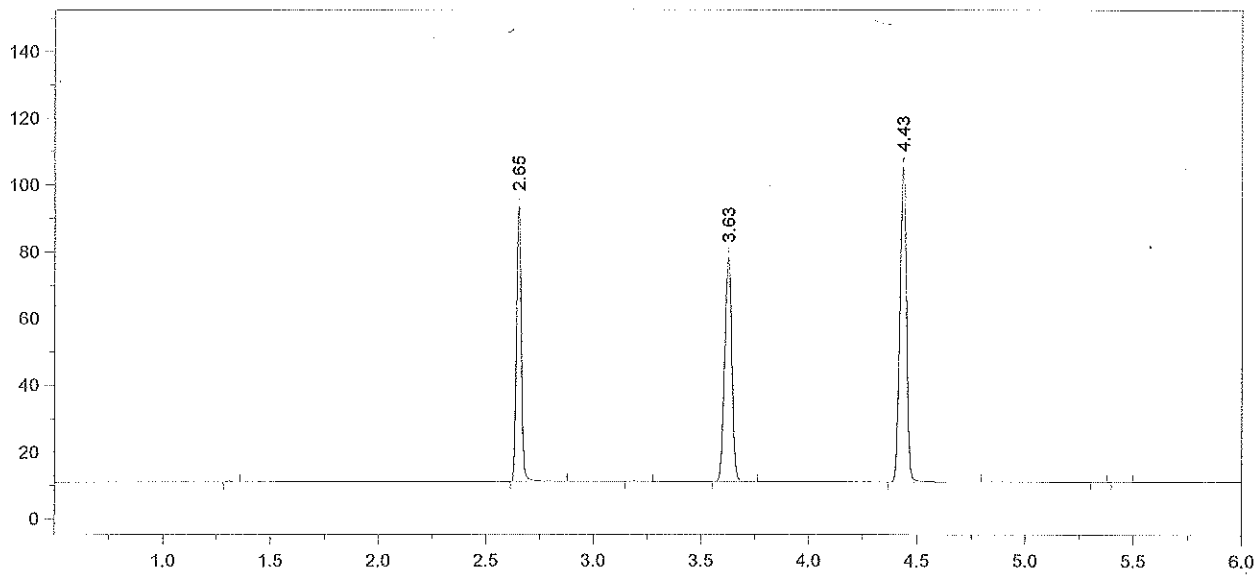


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 8:04:19 PM
Bound File Name = SIM02202015.0025.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 8:04:11 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127578	0.1235	0.1008
4	3.63	t-Butanol	145706	0.9608	0.7842
5	4.44	n-Propanol	197836	1.0000	0.8162

15-05-100 28 KEM

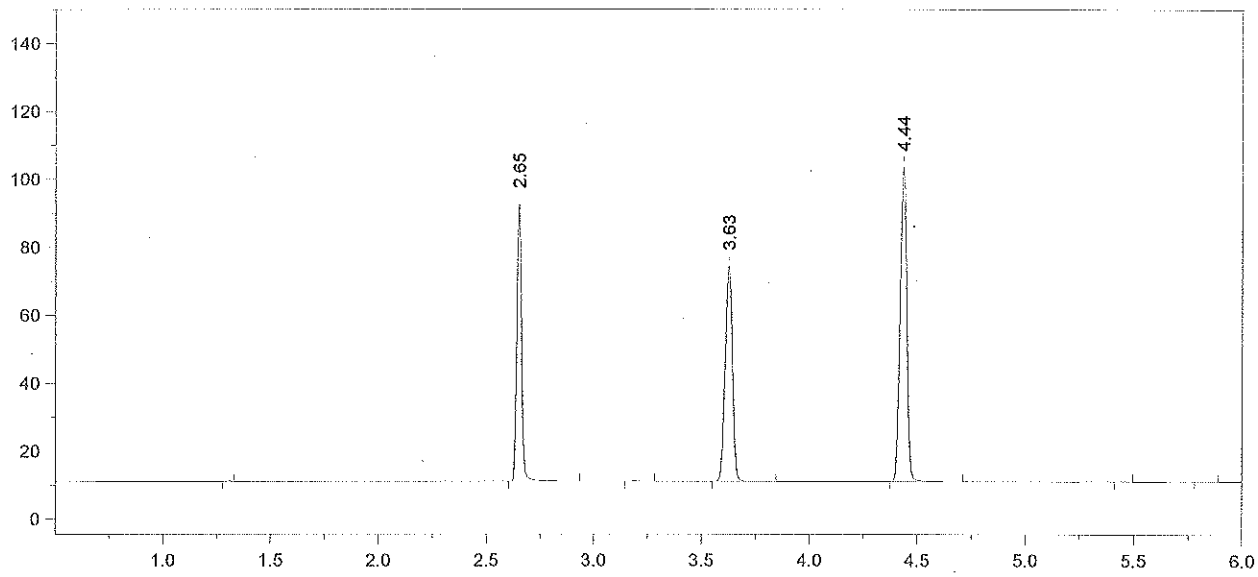


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 8:20:12 PM
Bound File Name = SIM02202015.0026.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 8:20:07 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128111	0.1214	0.0991
4	3.63	t-Butanol	155468	1.0038	0.8193
5	4.43	n-Propanol	202045	1.0000	0.8162

15-05-100 29 Zem

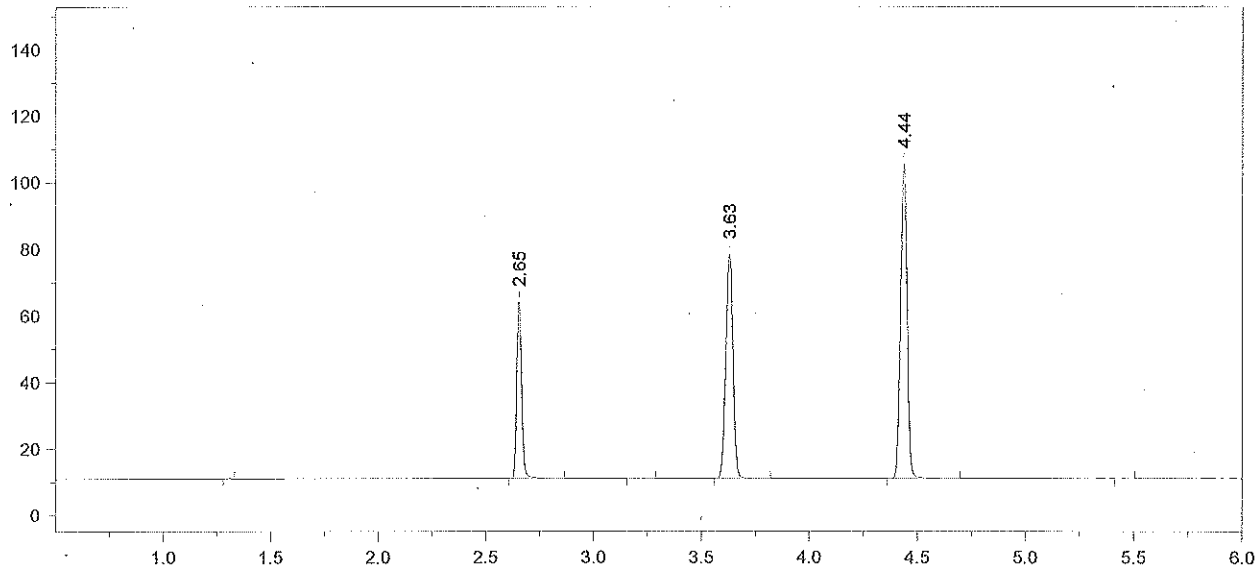


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/20/2015 Today's Time = 8:33:59 PM
Bound File Name = SIM02202015.0027.RAW
Sample Name = 0.10 TLC
Date Taken = 2/20/2015 8:33:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02202015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126691	0.1228	0.1002
4	3.63	t-Butanol	147392	0.9733	0.7944
5	4.44	n-Propanol	197559	1.0000	0.8162

15-05-100 30 Kem

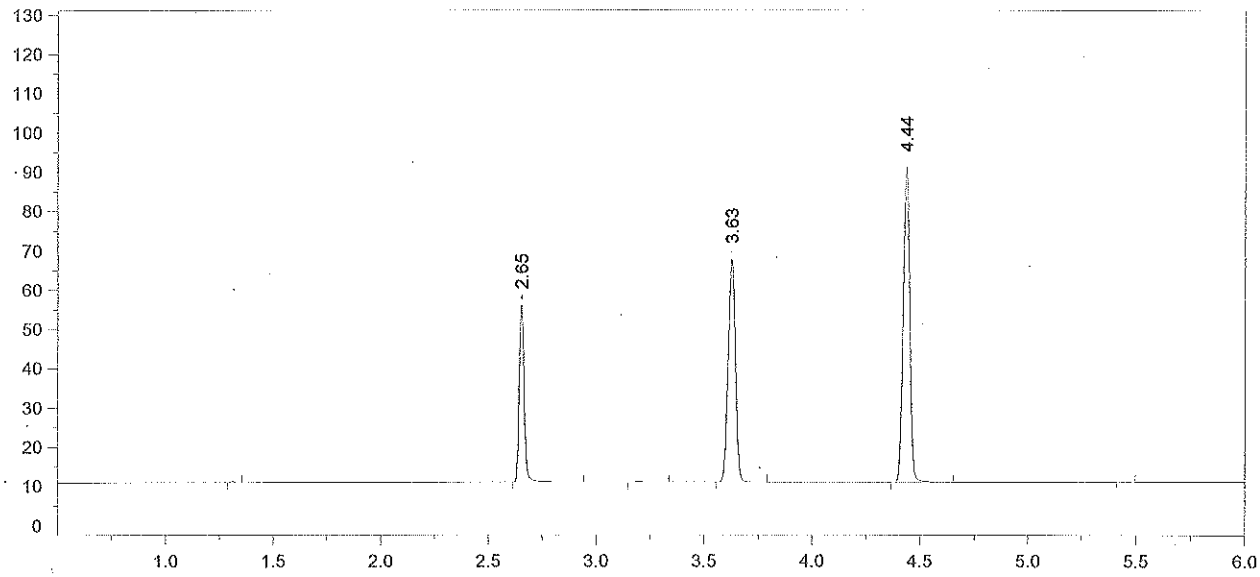


Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 8:49:53 PM
Bound File Name = SIM02202015.0028.RAW
Sample Name = CCS
Date Taken = 2/20/2015 8:49:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82909	0.0791
4	3.63	t-Butanol	155966	1.0140
5	4.44	n-Propanol	200658	1.0000

15-05-100 31 RZM



Format File Name = AlcoholVFL.FMT

Today's Date = 2/20/2015
Today's Time = 9:05:34 PM
Bound File Name = SIM02202015.0029.RAW
Sample Name = CCS
Date Taken = 2/20/2015 9:05:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02202015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	70632	0.0794
4	3.63	t-Butanol	132283	1.0130
5	4.44	n-Propanol	170363	1.0000

Avg vals 28 + 29 = 0.079
2/23/15 [illegible]

15-05-100 32 [illegible]

File Name: C:\Methods\SIM02232015.CAL
Version: 7

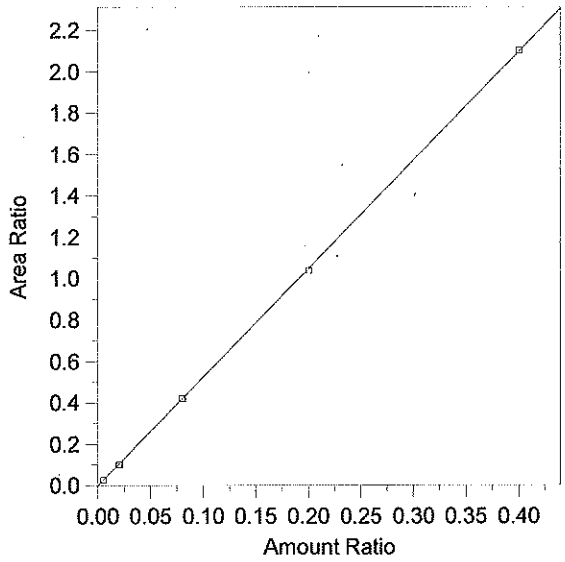
Creator:
Description:
Reason for change:

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

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

All levels are normal data points.

3 Ethanol



Expected retention time:	2.657 minutes
Search window:	0.1 minutes
Internal standard component:	7 (n-Propanol)
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by area

Y = 5.242675 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999539
Average error:	1.278%
Average CF:	5.215028
RSD:	1.912%

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	4623.044	924608.8	1.456	0.005	2.659508E-02	C:\Alcohol Data\SIM02232015\SIM02232015.0003.BND	2/23/2015 3:34:36 PM
3	0.02	18215.73	910786.6	-3.573	0.02	0.1011071	C:\Alcohol Data\SIM02232015\SIM02232015.0004.BND	2/23/2015 3:50:59 PM
4	0.08	78539.2	981740.1	0.184	0.08	0.4201854	C:\Alcohol Data\SIM02232015\SIM02232015.0005.BND	2/23/2015 4:04:59 PM
5	0.2	187016.1	935080.4	-0.940	0.2	1.038678	C:\Alcohol Data\SIM02232015\SIM02232015.0006.BND	2/23/2015 4:22:26 PM
6	0.4	383238.4	958096	0.236	0.4	2.102027	C:\Alcohol Data\SIM02232015\SIM02232015.0007.BND	2/23/2015 4:37:13 PM

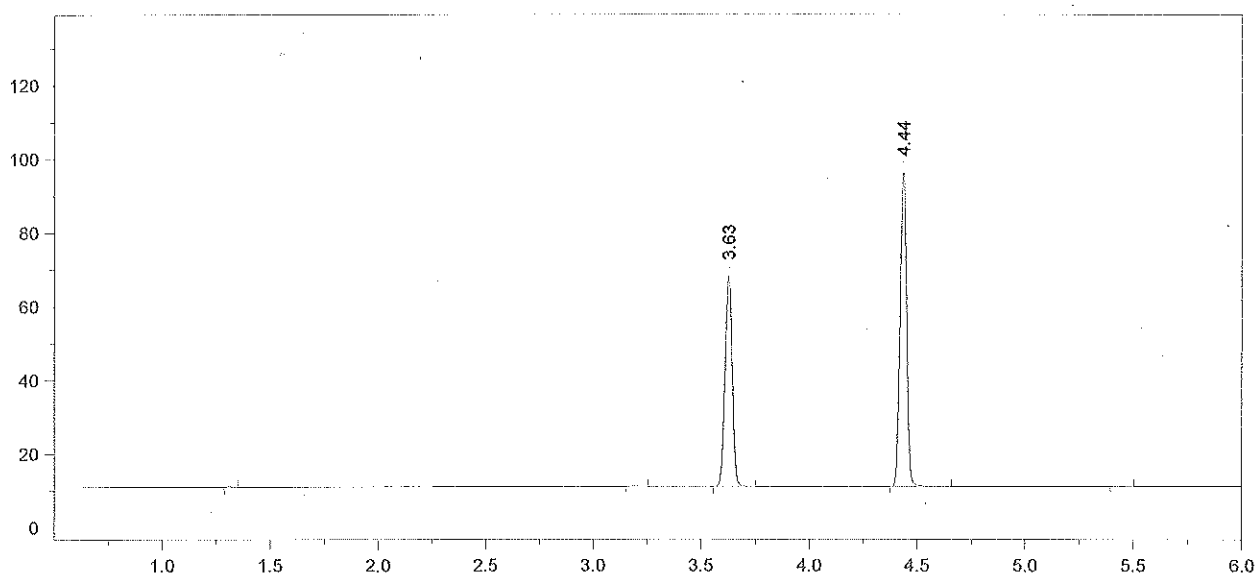
15-05-100

33

File Name = C:\Alcohol Data\SIM02232015\SIM02232015.SEQ
Version = 1
File Date = 2/23/2015 2:20:06 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM02232015.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM02232015.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM02232015.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM02232015.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM02232015.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM02232015.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM02232015.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM02232015.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM02232015.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM02232015.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM02232015.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM02232015.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	SIM02232015.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	SIM02232015.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	SIM02232015.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	SIM02232015.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	SIM02232015.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	SIM02232015.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	SIM02232015.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM02232015.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM02232015.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	SIM02232015.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	SIM02232015.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	SIM02232015.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	SIM02232015.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	SIM02232015.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	SIM02232015.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	SIM02232015.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM02232015.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

15-05-100 34 LZM

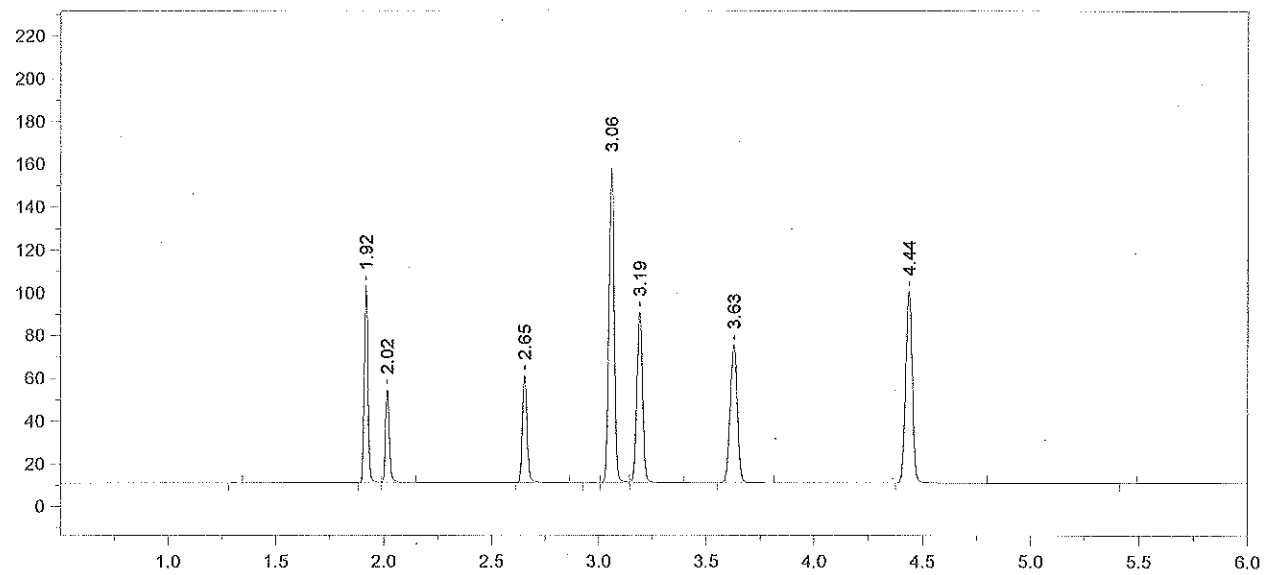


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015
Today's Time = 8:12:08 AM
Bound File Name = SIM02232015.0001.RAW
Sample Name = Blank
Date Taken = 2/23/2015 3:03:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	132556	0.9540
4	4.44	n-Propanol	182226	1.0000

15-05-100 35 LZM

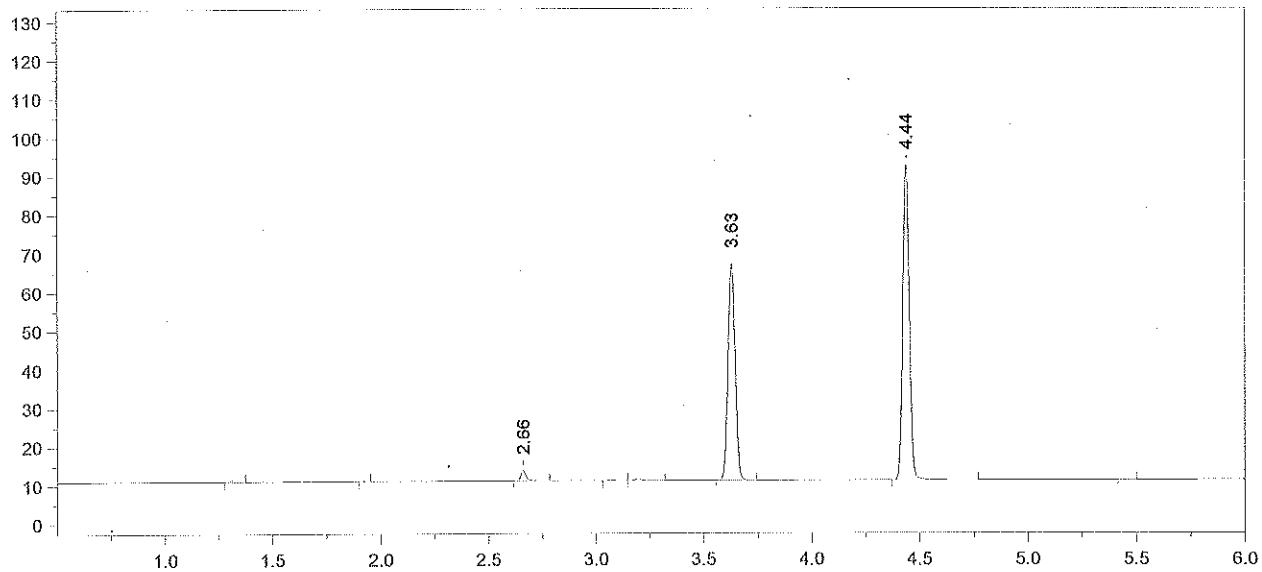


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015 Today's Time = 8:12:13 AM
Bound File Name = SIM02232015.0002.RAW
Sample Name = TMX
Date Taken = 2/23/2015 3:19:30 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	108304	0.0695
3	2.02	Methanol	55552	0.1232
4	2.65	Ethanol	78164	0.0782
6	3.06	Acetone	253026	0.0657
7	3.19	Isopropanol	149526	0.0848
8	3.63	t-Butanol	149414	1.0282
9	4.44	n-Propanol	190588	1.0000

15-05-100 36 KEM

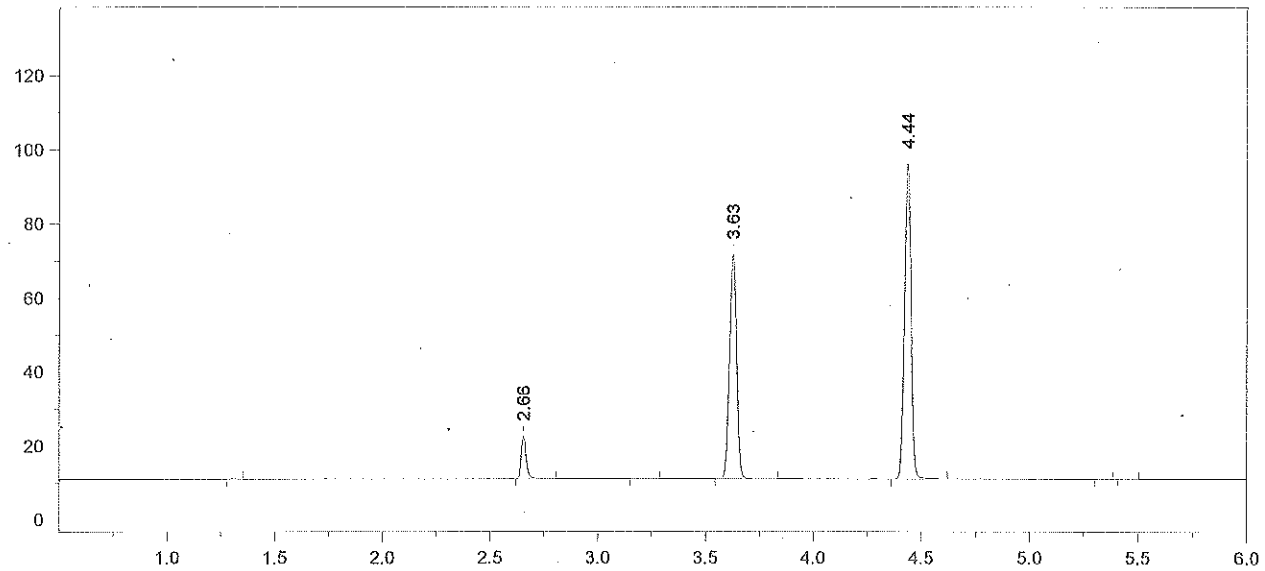


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015
Today's Time = 8:12:21 AM
Bound File Name = SIM02232015.0003.RAW
Sample Name = STD A
Date Taken = 2/23/2015 3:34:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	04623	0.0051 *
6	3.63	t-Butanol	129160	0.9745
7	4.44	n-Propanol	173831	1.0000

15-05-100 37 KM.

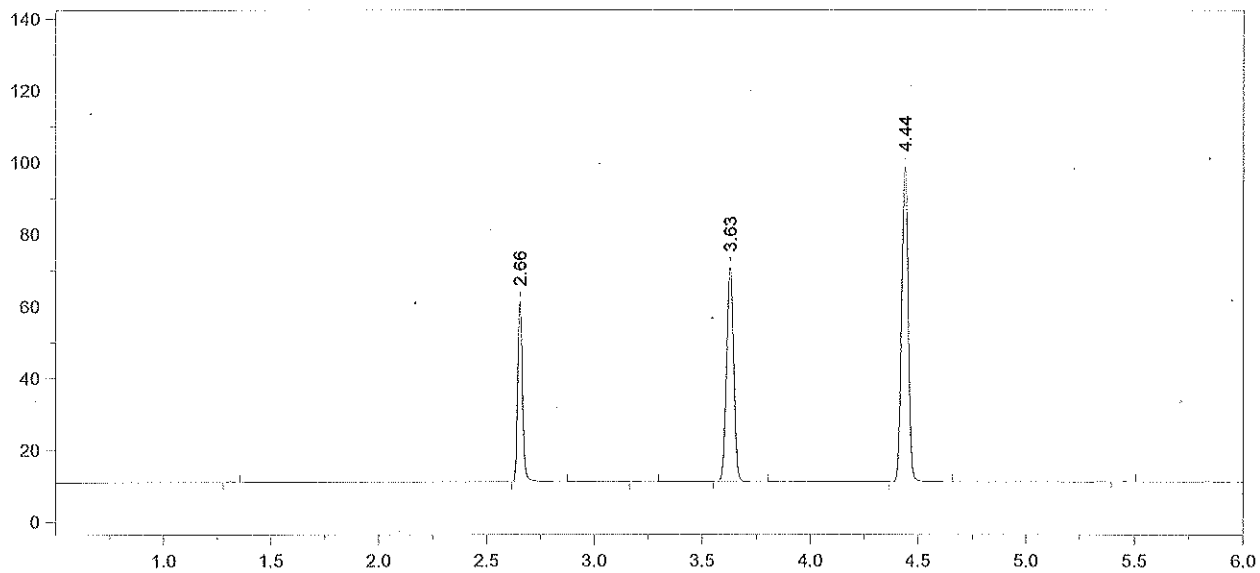


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015
Today's Time = 8:12:28 AM
Bound File Name = SIM02232015.0004.RAW
Sample Name = STD B
Date Taken = 2/23/2015 3:50:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	18216	0.0193 *
4	3.63	t-Butanol	140905	1.0257
5	4.44	n-Propanol	180163	1.0000

15-05-100 38 Ren

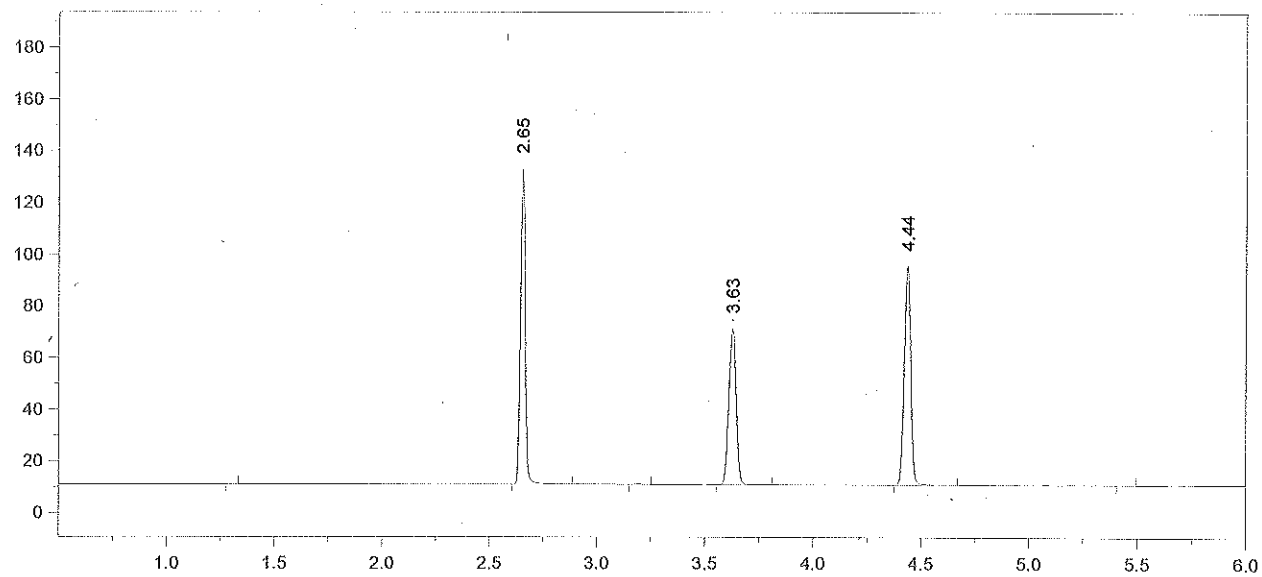


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015
Today's Time = 8:12:36 AM
Bound File Name = SIM02232015.0005.RAW
Sample Name = STD C
Date Taken = 2/23/2015 4:04:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	78539	0.0801 *
4	3.63	t-Butanol	138149	0.9693
5	4.44	n-Propanol	186916	1.0000

15-05-100 39

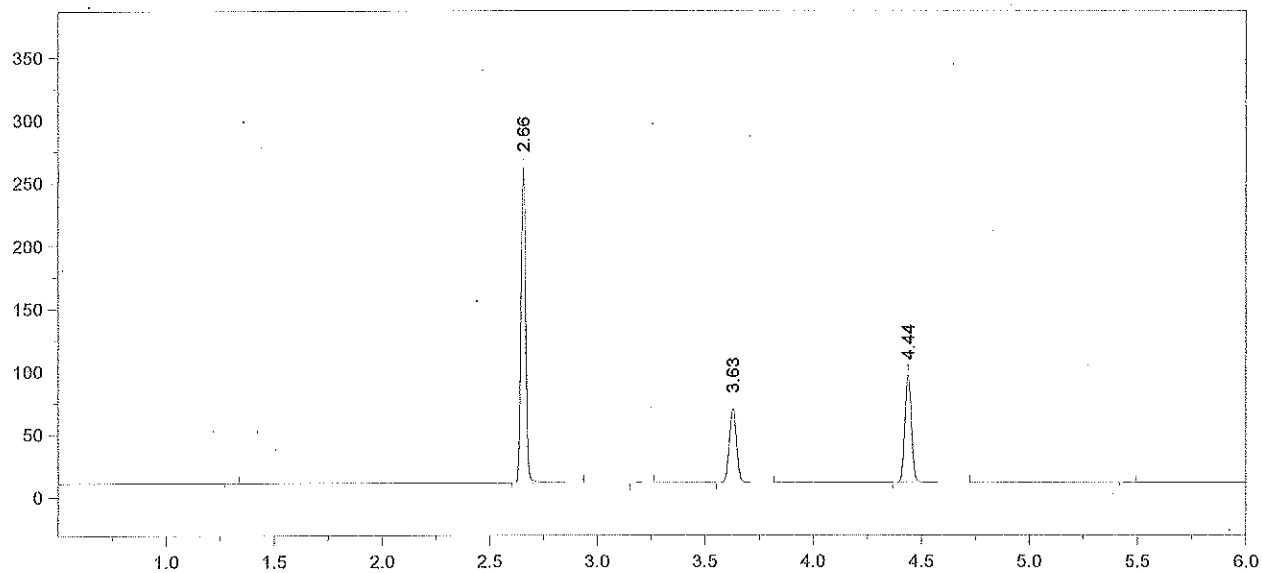


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015
Today's Time = 8:12:43 AM
Bound File Name = SIM02232015.0006.RAW
Sample Name = STD D
Date Taken = 2/23/2015 4:22:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	187016	0.1981 *
4	3.63	t-Butanol	140155	1.0209
5	4.44	n-Propanol	180052	1.0000

15-05-100 40 RCK

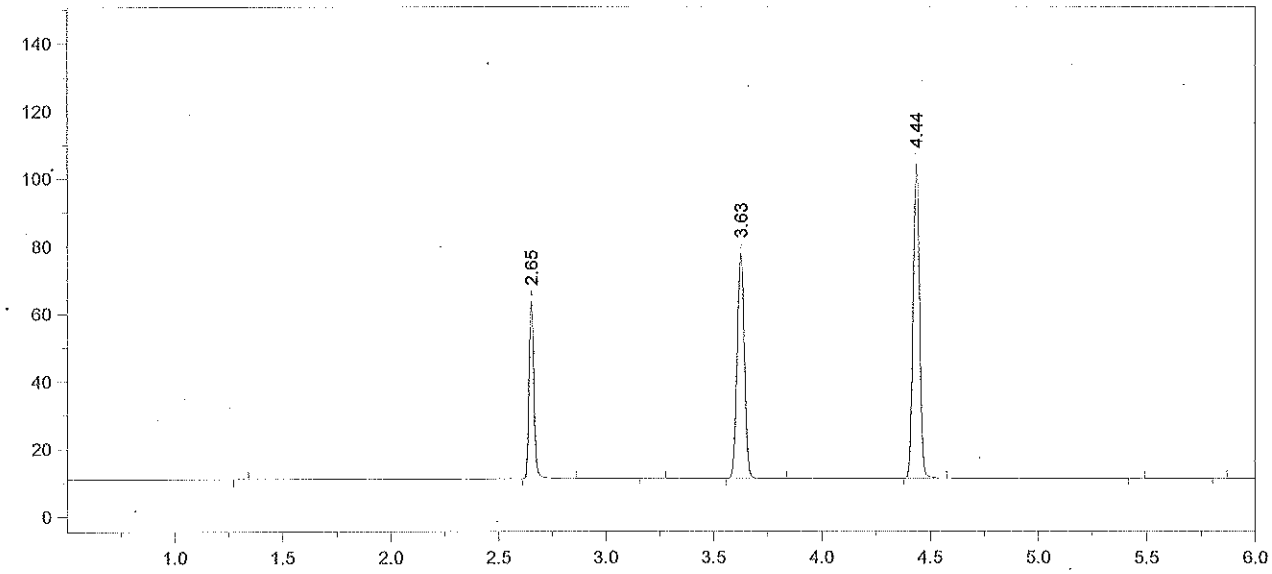


Format File Name = AlcoholVFL.FMT

Today's Date = 2/24/2015
Today's Time = 8:12:50 AM
Bound File Name = SIM02232015.0007.RAW
Sample Name = STD E
Date Taken = 2/23/2015 4:37:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	383238	0.4009 *
4	3.63	t-Butanol	136418	0.9813
5	4.44	n-Propanol	182319	1.0000

15-05-100 41

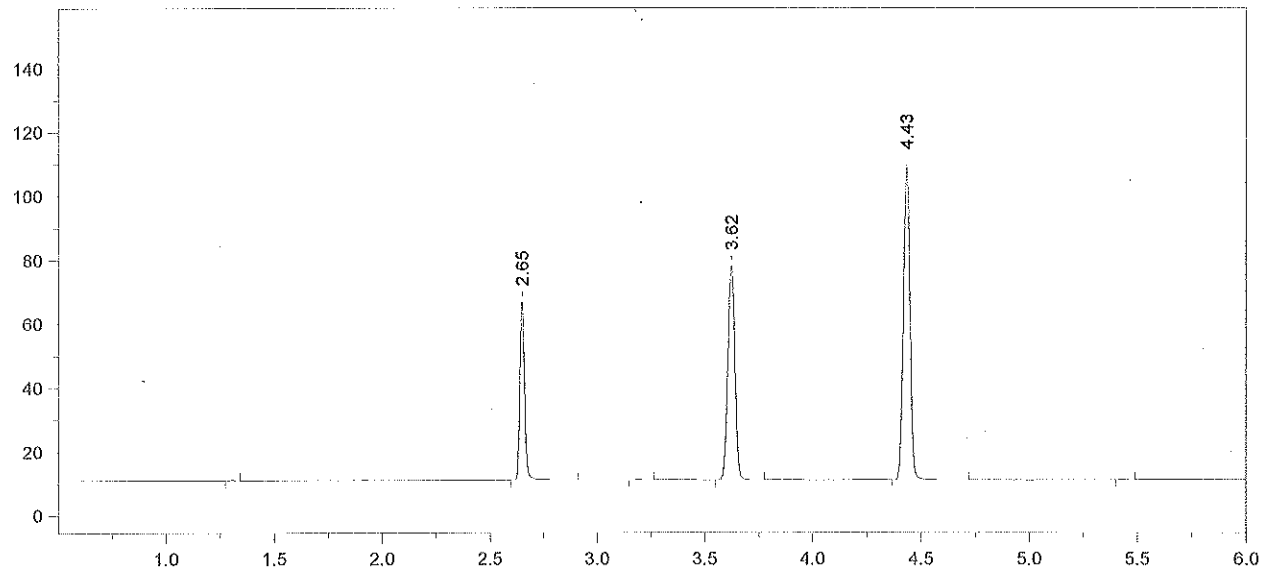


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 4:52:10 PM
Bound File Name = SIM02232015.0008.RAW
Sample Name = AQ QC
Date Taken = 2/23/2015 4:52:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81498	0.0787 *
4	3.63	t-Butanol	154323	1.0252
5	4.44	n-Propanol	197416	1.0000

15-05-100 42 KEM



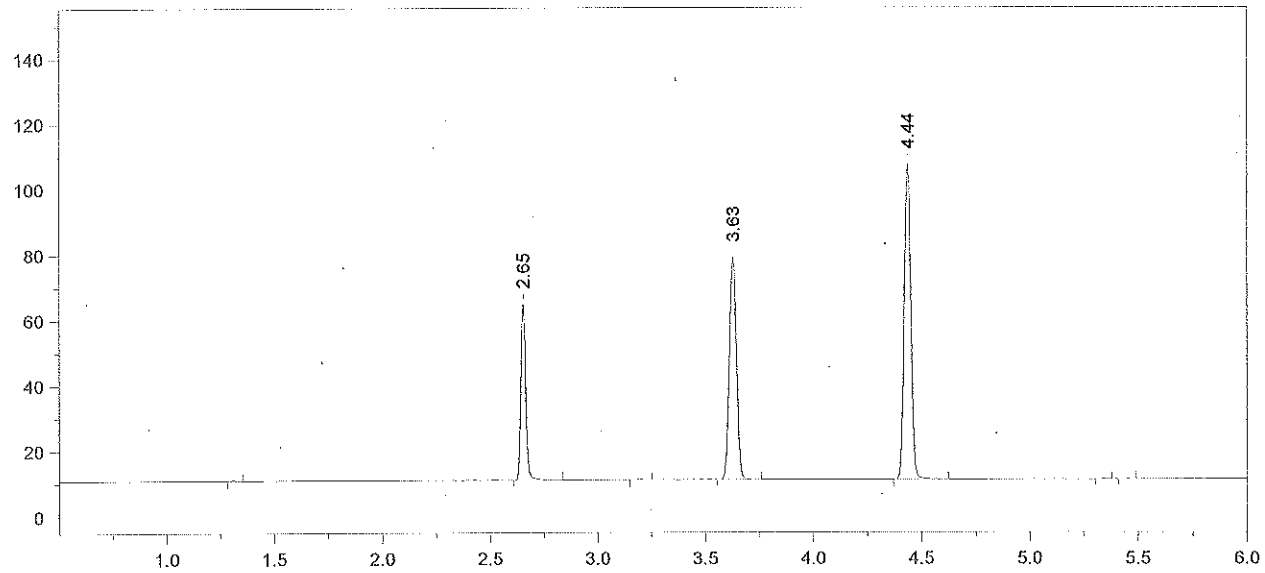
Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 5:08:16 PM
Bound File Name = SIM02232015.0009.RAW
Sample Name = AQ QC
Date Taken = 2/23/2015 5:08:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86936	0.0793 *
4	3.62	t-Butanol	155917	0.9777
5	4.43	n-Propanol	209146	1.0000

Avg #8 + #9 = 0.079
Target value: 0.080
% recovery = 99%
RZM 2/24/15

15-05-100 43 RZM

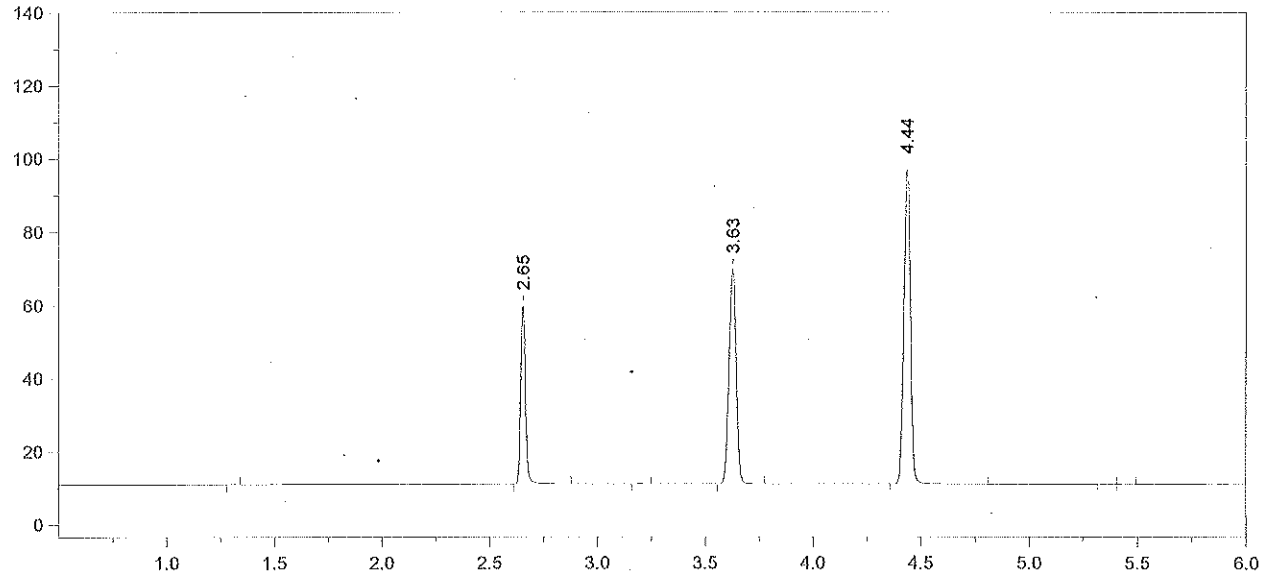


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 5:22:01 PM
Bound File Name = SIM02232015.0010.RAW
Sample Name = CCS
Date Taken = 2/23/2015 5:21:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83393	0.0778 *
4	3.63	t-Butanol	157736	1.0116
5	4.44	n-Propanol	204497	1.0000

15-05-100 44



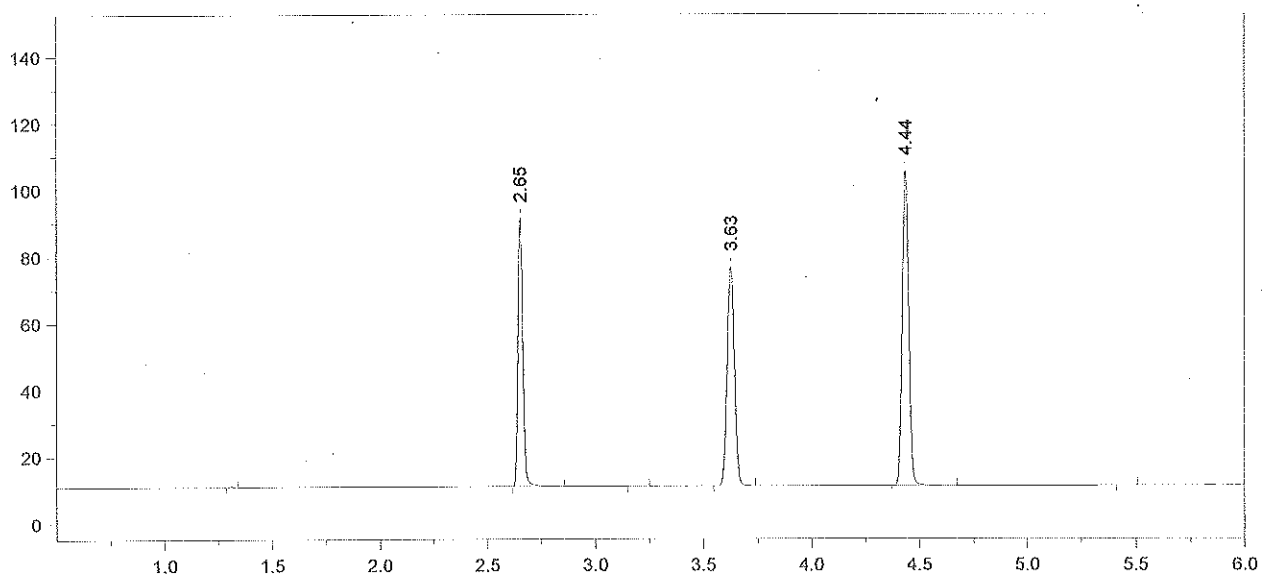
Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 5:38:48 PM
Bound File Name = SIM02232015.0011.RAW
Sample Name = CCS
Date Taken = 2/23/2015 5:38:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	76581	0.0796 *
4	3.63	t-Butanol	136269	0.9745
5	4.44	n-Propanol	183394	1.0000

Avg # 10 + #11 = 0.079
RLM 2/24/15

15-05-100 45 RLM

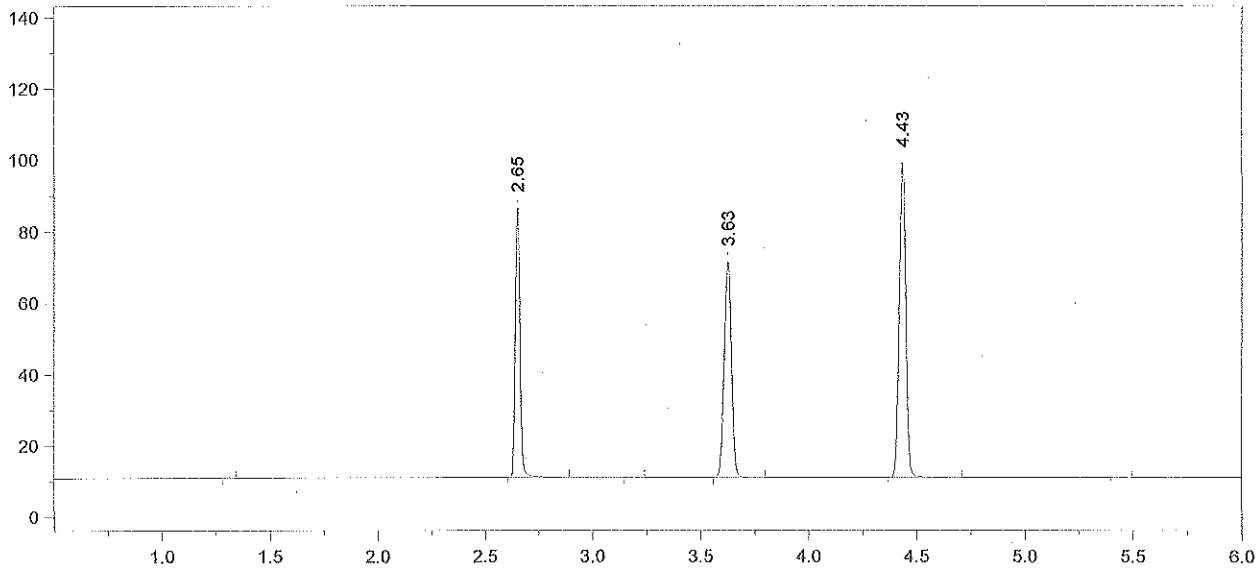


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 5:52:52 PM
Bound File Name = SIM02232015.0012.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 5:52:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123695	0.1180	0.0963
4	3.63	t-Butanol	152874	1.0025	0.8183
5	4.44	n-Propanol	199989	1.0000	0.8162

15-05-100 46 RLM

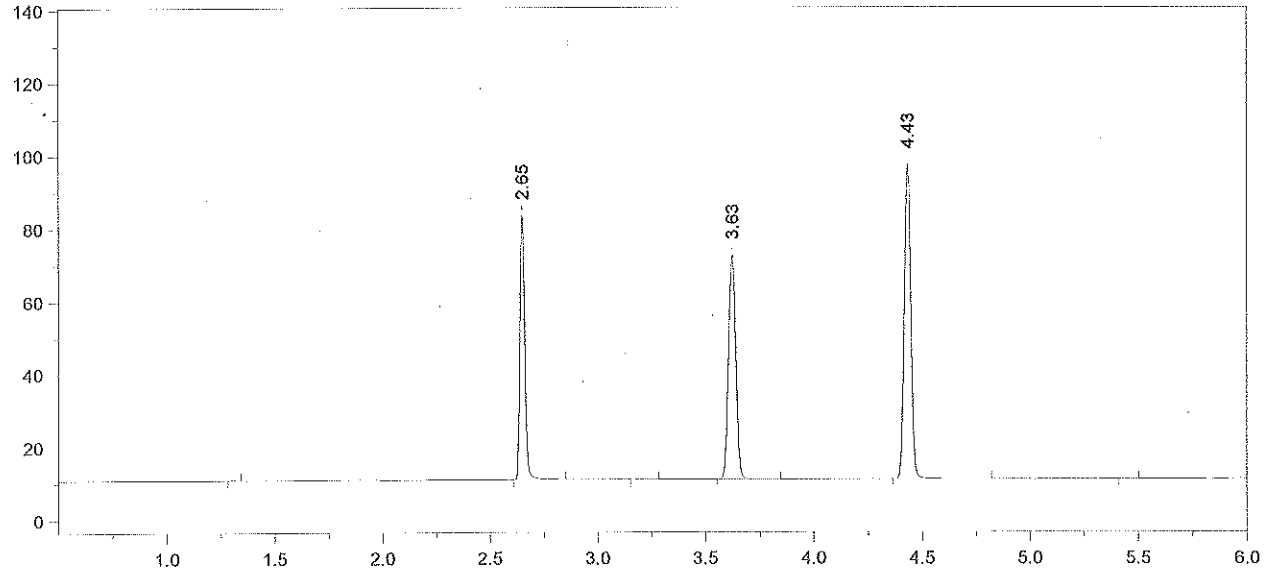


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 6:08:31 PM
Bound File Name = SIM02232015.0013.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 6:08:21 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117635	0.1193	0.0974
4	3.63	t-Butanol	139305	0.9718	0.7932
5	4.43	n-Propanol	188007	1.0000	0.8162

15-05-100 47 Ken



Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Bound File Name = SIM02232015.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 6:25:00 PM
Method file = simsoln.met
Calibration file = SIM02232015.CAL

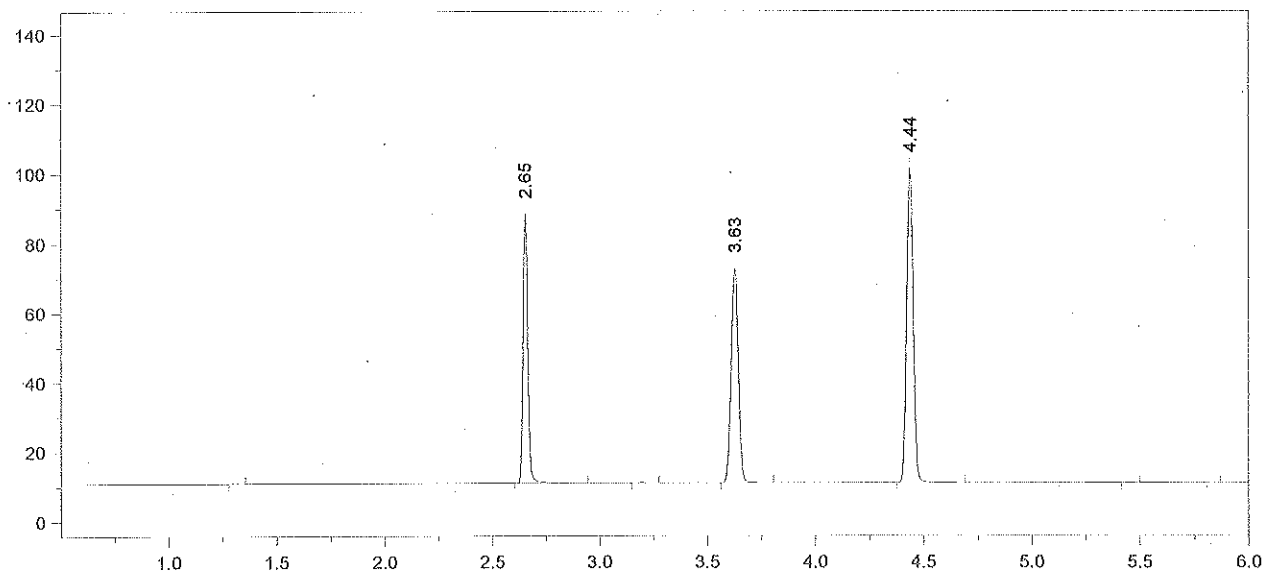
Today's Time = 6:25:06 PM

VDH Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	112309	0.1168	0.0954
4	3.63	t-Butanol	142648	1.0204	0.8329
5	4.43	n-Propanol	183345	1.0000	0.8162

15-05-100 48 RZM

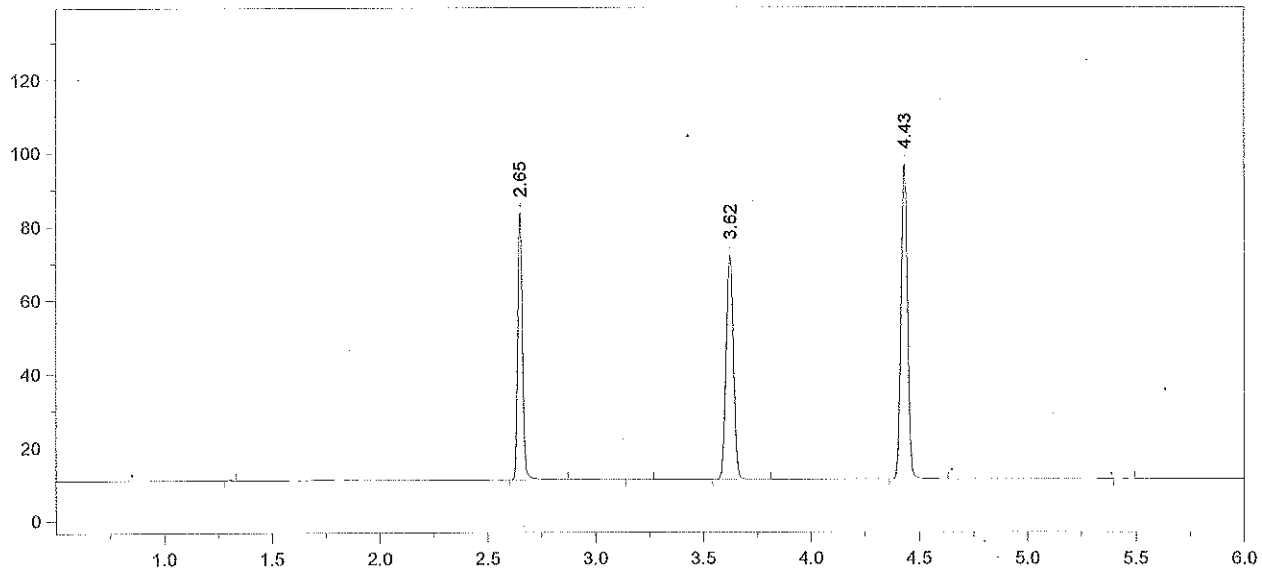


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 6:38:24 PM
Bound File Name = SIM02232015.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 6:38:16 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120107	0.1192	0.0973
4	3.63	t-Butanol	143128	0.9771	0.7975
5	4.44	n-Propanol	192124	1.0000	0.8162

15-05-100 49 KEM

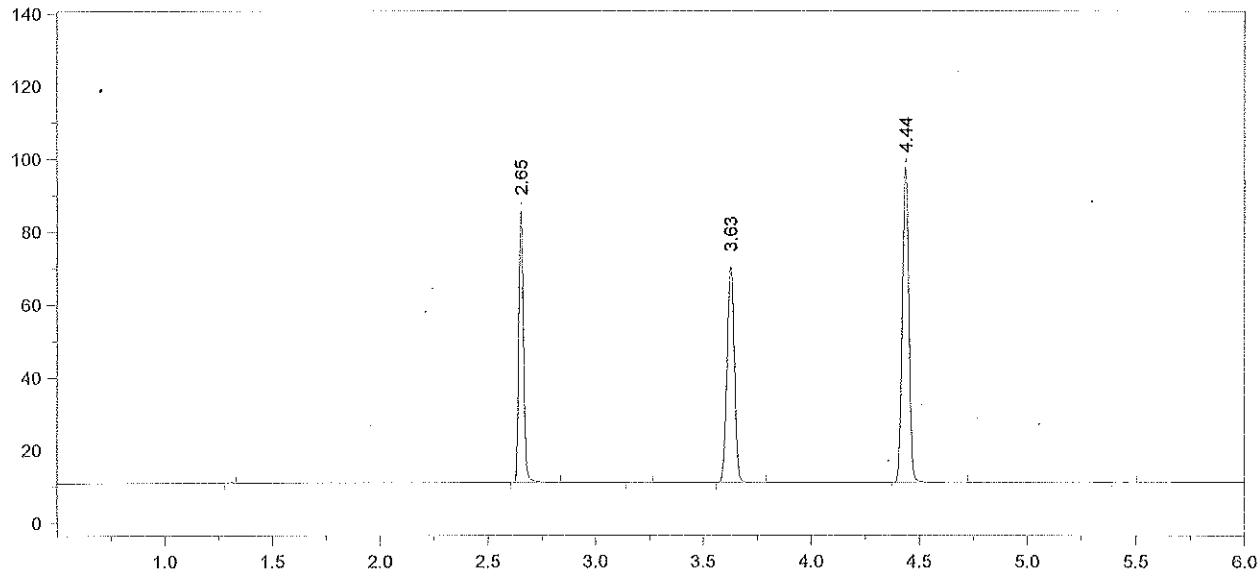


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 6:56:35 PM
Bound File Name = SIM02232015.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 6:56:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	112468	0.1182	0.0965
4	3.62	t-Butanol	141763	1.0246	0.8362
5	4.43	n-Propanol	181469	1.0000	0.8162

15-05-100 50 RLM

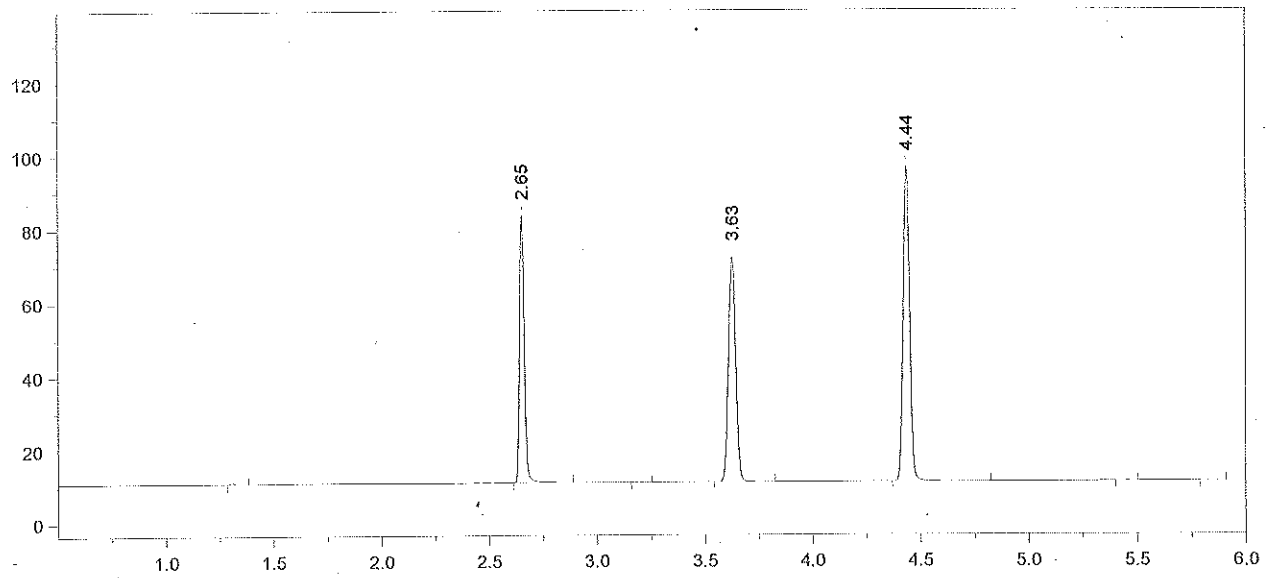


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 7:11:04 PM
Bound File Name = SIM02232015.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 7:10:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	115372	0.1195	0.0975
4	3.63	t-Butanol	137356	0.9781	0.7983
5	4.44	n-Propanol	184176	1.0000	0.8162

15-05-100 51 Rem

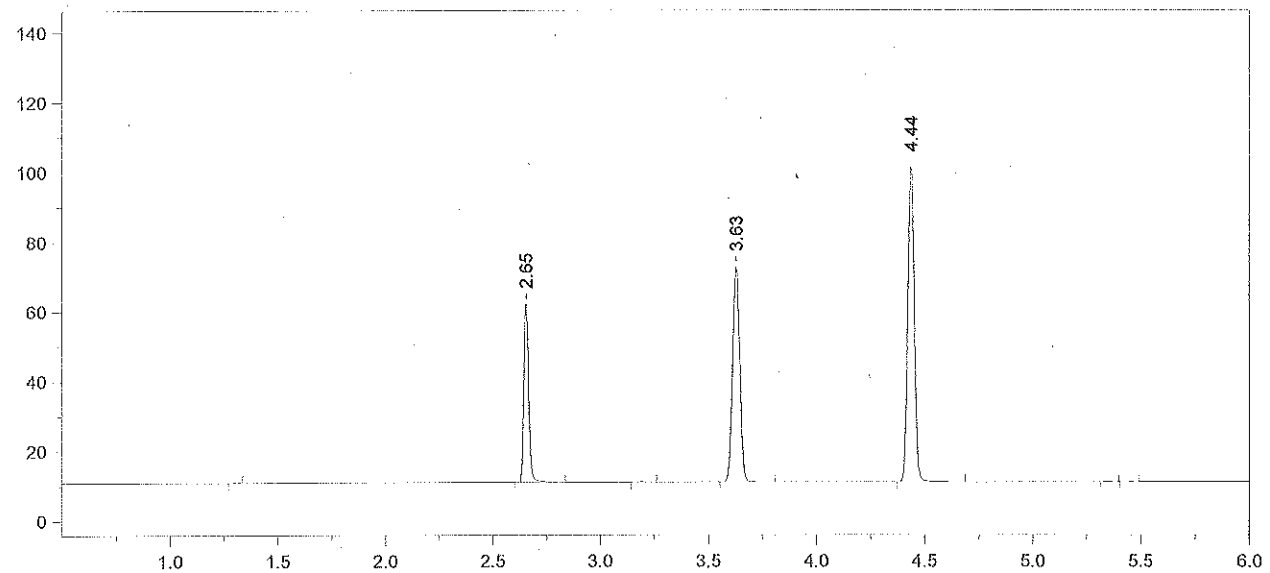


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 7:27:55 PM
Bound File Name = SIM02232015.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 2/23/2015 7:27:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	112310	0.1175	0.0959
4	3.63	t-Butanol	142209	1.0231	0.8350
5	4.44	n-Propanol	182301	1.0000	0.8162

15-05-100 52 RLM

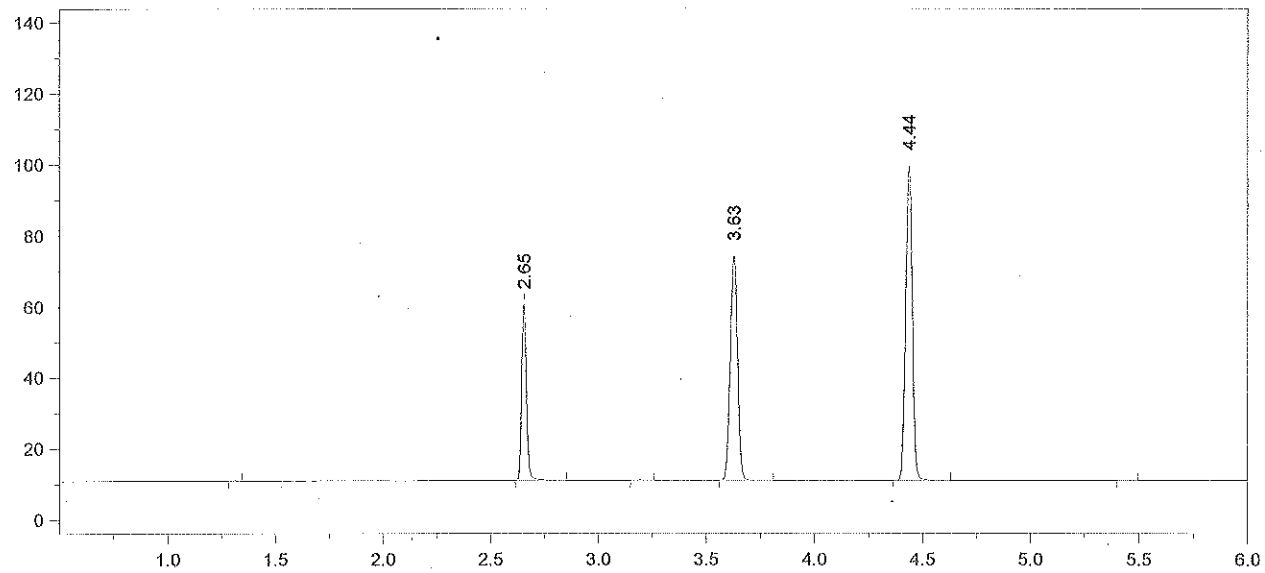


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:41:49 PM
Bound File Name = SIM02232015.0019.RAW
Sample Name = CCS
Date Taken = 2/23/2015 7:41:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80144	0.0795 *
4	3.63	t-Butanol	142838	0.9741
5	4.44	n-Propanol	192310	1.0000

15-05-100 53 RZM



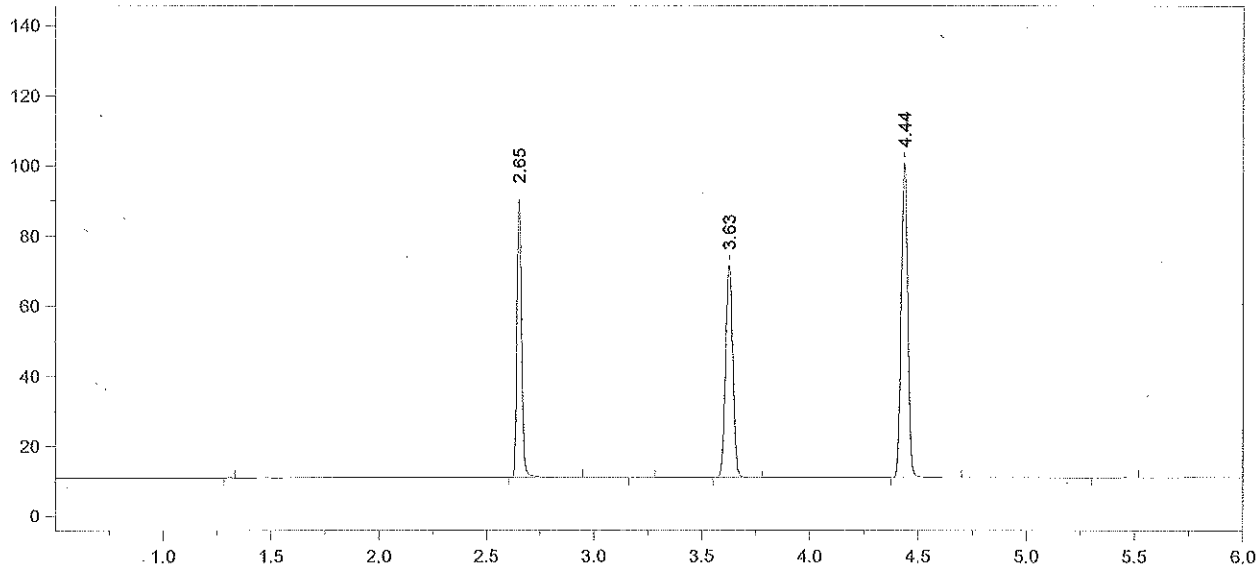
Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 7:59:18 PM
Bound File Name = SIM02232015.0020.RAW
Sample Name = CCS
Date Taken = 2/23/2015 7:59:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	77198	0.0784 *
4	3.63	t-Butanol	146881	1.0261
5	4.44	n-Propanol	187732	1.0000

Avg # 19 + # 20 = 0.079
RLM 2/24/15

15-05-100 54 RLM

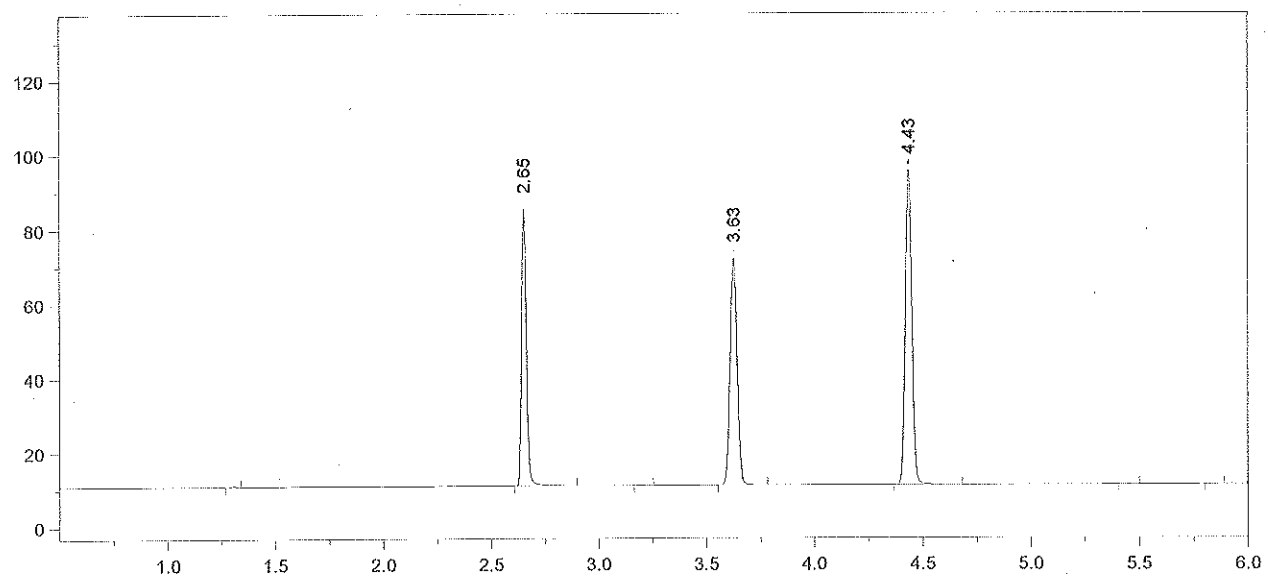


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015 Today's Time = 8:13:10 PM
Bound File Name = SIM02232015.0021.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 8:13:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123141	0.1234	0.1007
4	3.63	t-Butanol	140738	0.9698	0.7916
5	4.44	n-Propanol	190328	1.0000	0.8162

15-05-100 55



Format File Name = simsolnVFL.met.FMT

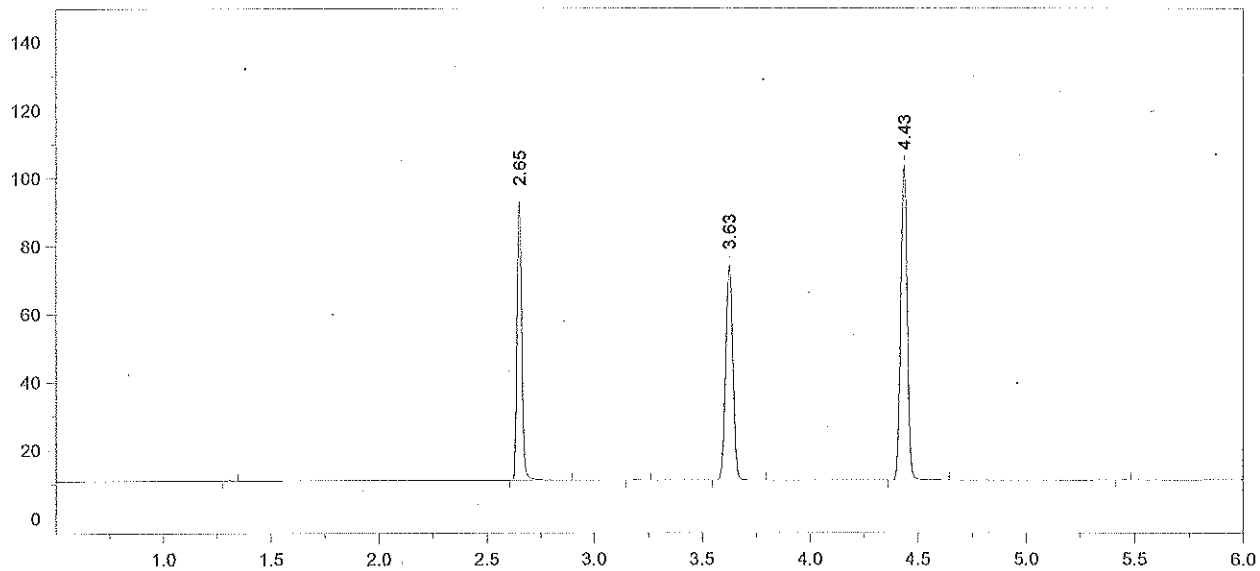
Today's Date = 2/23/2015
Today's Time = 8:30:45 PM
Bound File Name = SIM02232015.0022.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 8:30:38 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	115261	0.1223	0.0998
4	3.63	t-Butanol	141187	1.0299	0.8406
5	4.43	n-Propanol	179790	1.0000	0.8162

15-05-100

56

Rem

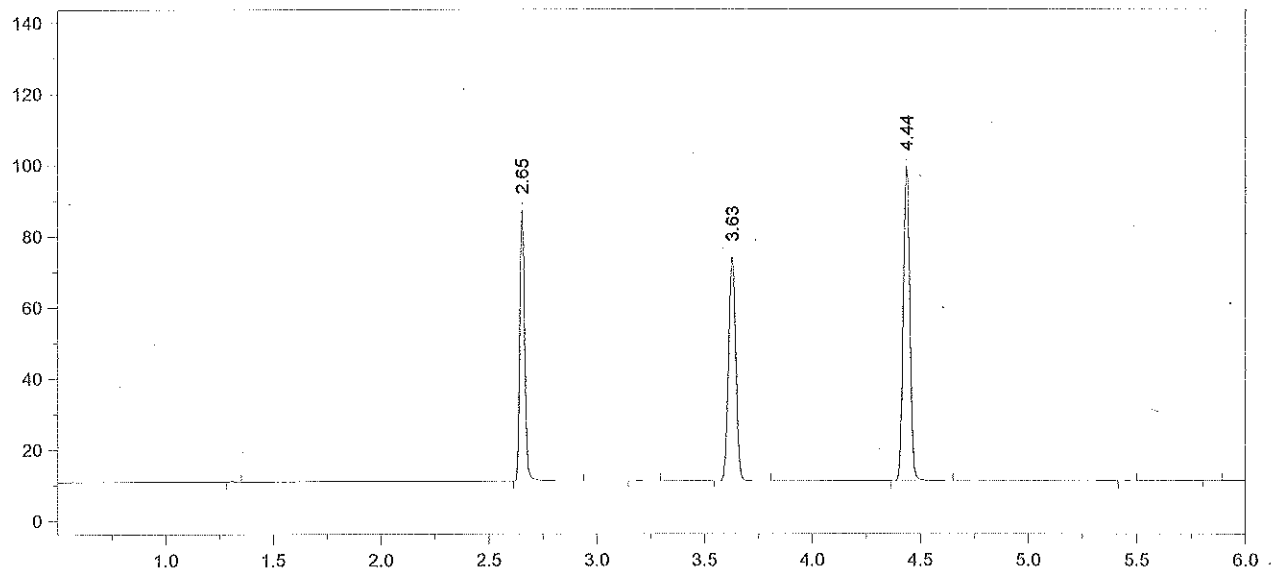


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 8:44:48 PM
Bound File Name = SIM02232015.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 8:44:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127614	0.1236	0.1009
4	3.63	t-Butanol	146501	0.9760	0.7966
5	4.43	n-Propanol	196866	1.0000	0.8162

15-05-100 57 Ken

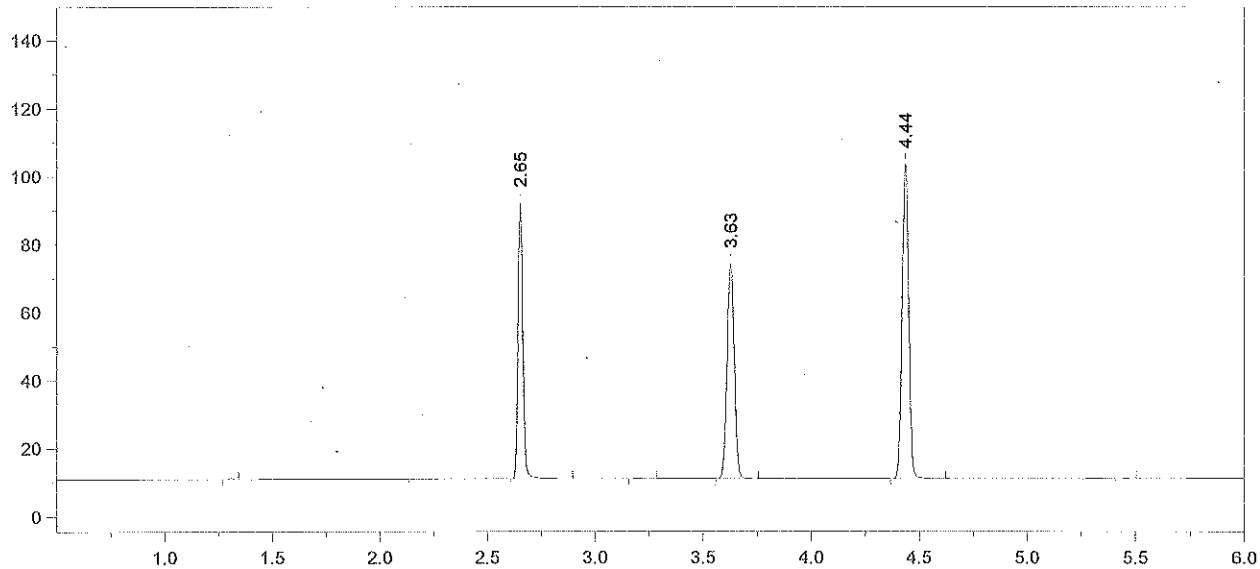


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015 Today's Time = 9:02:14 PM
Bound File Name = SIM02232015.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 9:02:04 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	118044	0.1199	0.0979
4	3.63	t-Butanol	146473	1.0233	0.8352
5	4.44	n-Propanol	187729	1.0000	0.8162

15-05-100 58 Kem



Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Bound File Name = SIM02232015.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 9:15:50 PM
Method file = simsoln.met
Calibration file = SIM02232015.CAL

Today's Time = 9:15:55 PM

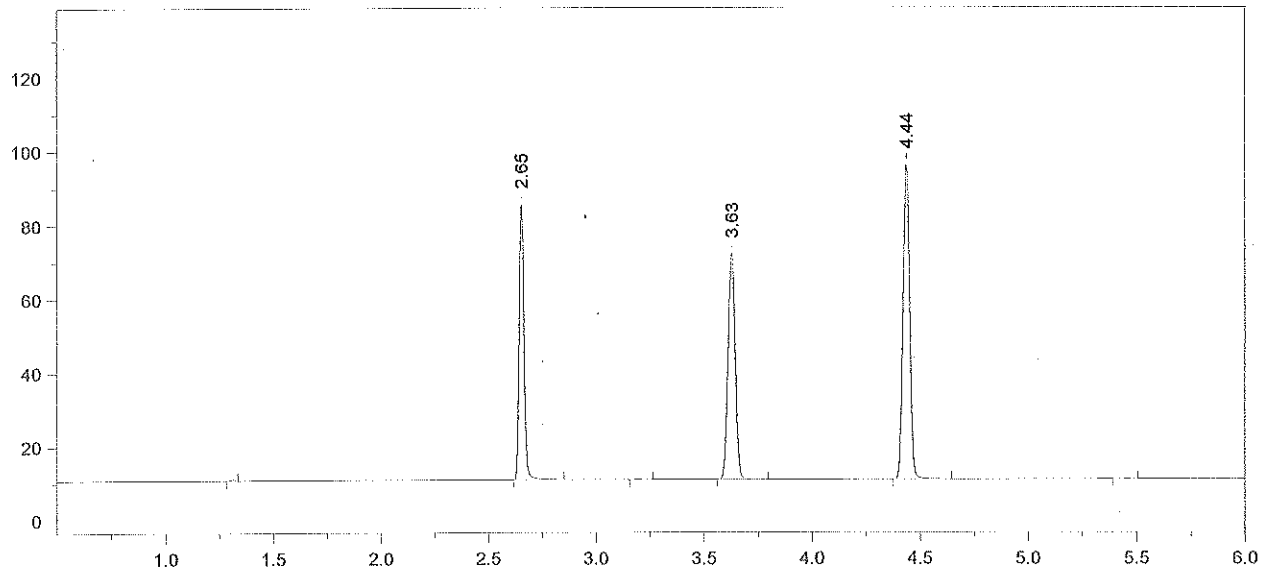
VDH Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125134	0.1219	0.0995
4	3.63	t-Butanol	146733	0.9828	0.8022
5	4.44	n-Propanol	195806	1.0000	0.8162

15-05-100

59

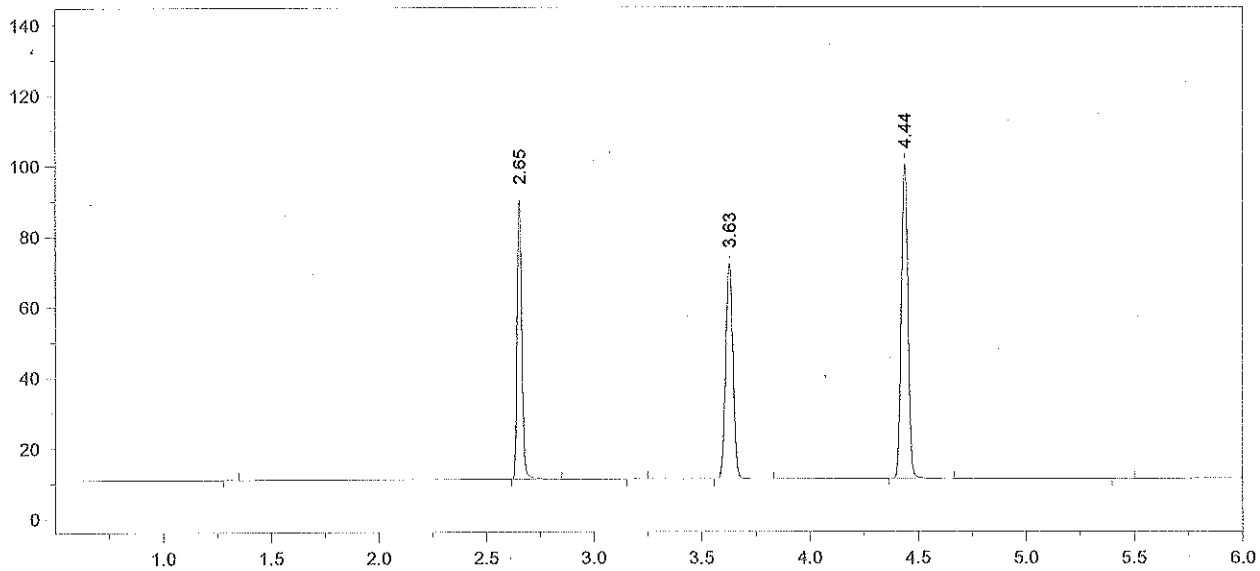


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 9:33:36 PM
Bound File Name = SIM02232015.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 9:33:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	115707	0.1216	0.0993
4	3.63	t-Butanol	142149	1.0272	0.8384
5	4.44	n-Propanol	181494	1.0000	0.8162

15-05-100 60 Ler

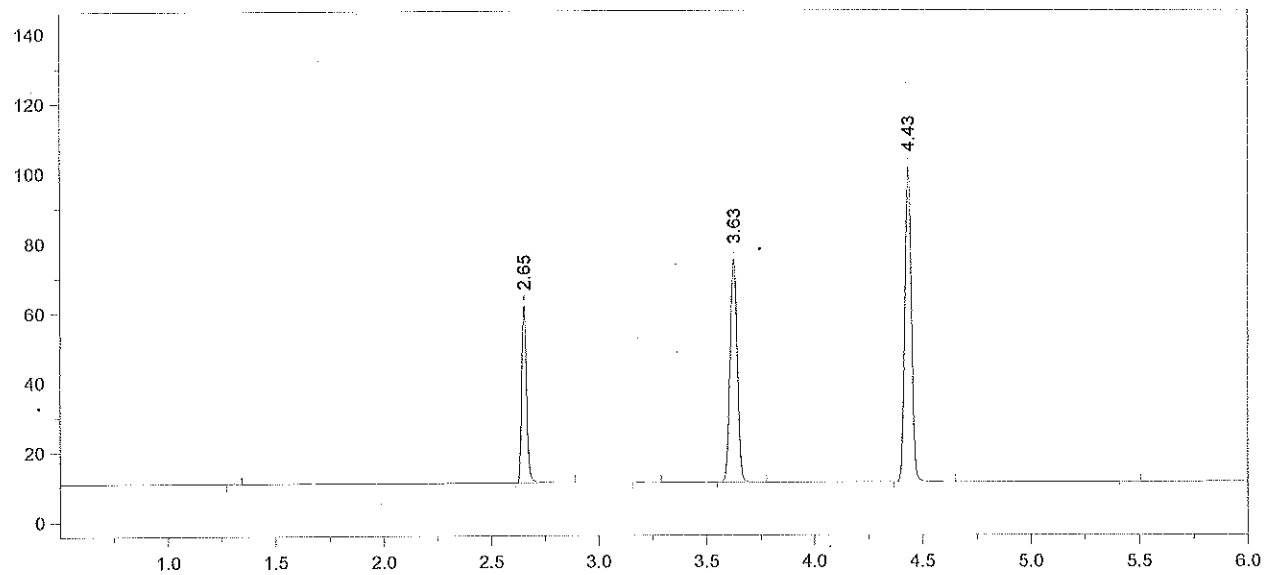


Format File Name = simsolnVFL.met.FMT

Today's Date = 2/23/2015
Today's Time = 9:47:34 PM
Bound File Name = SIM02232015.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 2/23/2015 9:47:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122994	0.1232	0.1006
4	3.63	t-Butanol	141731	0.9764	0.7969
5	4.44	n-Propanol	190383	1.0000	0.8162

15-05-100 61 RZM

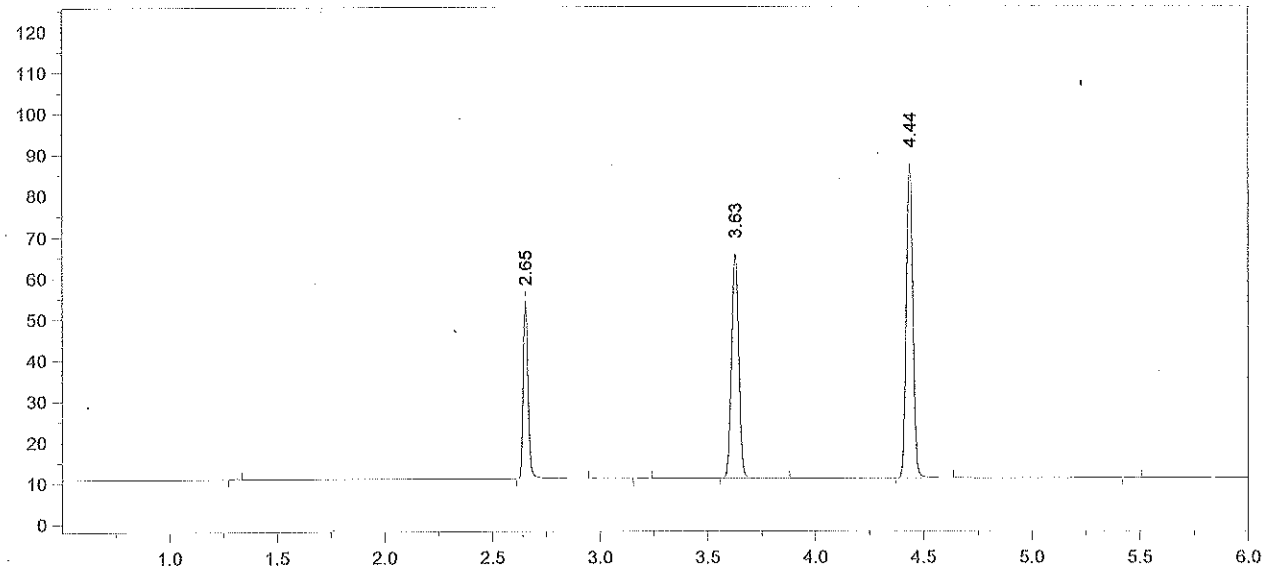


Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 10:04:57 PM
Bound File Name = SIM02232015.0028.RAW
Sample Name = CCS
Date Taken = 2/23/2015 10:04:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79804	0.0792 *
4	3.63	t-Butanol	148285	1.0121
5	4.43	n-Propanol	192146	1.0000

15-05-100 62 [illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 2/23/2015
Today's Time = 10:18:50 PM
Bound File Name = SIM02232015.0029.RAW
Sample Name = CCS
Date Taken = 2/23/2015 10:18:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM02232015.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	67447	0.0792 *
4	3.63	t-Butanol	127300	1.0281
5	4.44	n-Propanol	162391	1.0000

Avg #28 + #29 = 0.079
KEM 2/24/15

15-05-100 63 KEM