VERMONT FORENSIC LABORATORY

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 5/27/2014, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 14-04-100 and an expiration date of 5/27/2015.

On 5/27/2014 and 5/28/2014, the solution was analyzed against calibration SIM05272014 and SIM05282014. 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 on Thursday, May 29, 2014.

Rebecca Mead

Rebecca Mead

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION
~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST
RLM 5/29/14

LOT #
~~AGENCY CASE#:~~ 14-04-100 ANALYST: RLM
LAB #: N/A RLM 5/29/14

TECHNICAL REVIEWER: [signature] DATE: 5/29/14

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

Comments:

ADMINISTRATIVE REVIEWER: [signature] DATE: 5/29/2014

- [N/A] Agency Case # and Lab # match submission form?
- [N/A] Submitting agency, investigator, suspect, CC match submission form?
- [N/A] Chain of Custody is complete and dated appropriately?
- [X] Are all pages numbered and initialed on the Examination Documents?
- [X] Case number written on all pages of the case file (Either agency or lab #)?
- [N/A] Is the exam end date documented in the paper case file consistent with the exam end date in LIMS?

Comments:

DIRECTOR REVIEWER: [signature] DATE: 5/29/2014

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

Check Mark or X = pass, NA= Not Applicable

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 External Standard 20L
Lot # 14-04-100
Prepared 5/27/2014 by RLM
Exp 5/27/2015

RLM CAL SIM05272014
RLM/TLC Vials
Analyzed on 5/27/2014

0.0983 rlm
0.1003
0.0986
0.1006
0.0989
0.1001
0.0977
0.0997 tlc
0.0971
0.0997
0.0978
0.0997
0.0968
0.0997

Ave. =	0.0989
Std Dev. =	0.0012
Range =	0.0968-0.1006

RLM CAL SIM05282014
RLM/ALB Vials
Analyzed on 5/28/2014

0.0977 rlm
0.1002
0.0970
0.0989
0.0983
0.1002
0.0984
0.0984 alb
0.0981
0.1008
0.0981
0.0997
0.0975
0.1015

Ave. =	0.0989
Std Dev. =	0.0013
Range =	0.0970-0.1015

Total Values from Both Runs

Average	**Mean**
0.0983	0.0968
0.1003	0.0970
0.0986	0.0971
0.1006	0.0975
0.0989	0.0977
0.1001	
0.0977	0.0978
0.0997	0.0981
0.0971	
0.0997	0.0983
0.0978	
0.0997	0.0984
0.0968	
0.0997	0.0986
0.0977	0.0989
0.1002	
0.0970	0.0997
0.0989	
0.0983	
0.1002	
0.0984	
0.0984	0.1001
0.0981	0.1002
0.1008	
0.0981	0.1003
0.0997	0.1006
0.0975	0.1008
0.1015	0.1015

Ave. =	0.0989
Avg Std Dev. =	0.0013
Mean =	0.0989
Mean Std Dev. =	0.0015
Range =	0.0968-0.1015
RPD =	4.75%

14-04-100

RLM

File Name: C:\Methods\SIM05272014.CAL
Version: 7

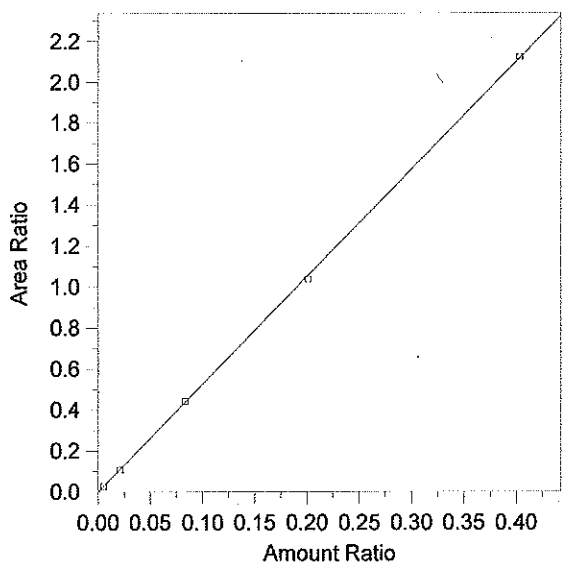
Creator:
Description:
Reason for change:

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

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

All levels are normal data points.

3 Ethanol



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

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

Single peak quantification by area

Y = 5.247089 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9998775
Average error: 1.360%
Average CF: 5.23561
RSD: 1.676%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0052	5666.803	1089770	1.486	0.0052	2.769021E-02	C:\Alcohol Data\SIM05272014\SIM05272014.0003.BND	5/27/2014 3:36:25 PM
3	0.021	22666.94	1079378	-2.353	0.021	0.1075964	C:\Alcohol Data\SIM05272014\SIM05272014.0004.BND	5/27/2014 3:52:24 PM
4	0.0837	87925.77	1050487	1.009	0.0837	0.4436125	C:\Alcohol Data\SIM05272014\SIM05272014.0005.BND	5/27/2014 4:07:49 PM
5	0.2009	202340.1	1007168	-1.595	0.2009	1.03733	C:\Alcohol Data\SIM05272014\SIM05272014.0006.BND	5/27/2014 4:23:55 PM
6	0.4029	431585.2	1071197	0.359	0.4029	2.121644	C:\Alcohol Data\SIM05272014\SIM05272014.0007.BND	5/27/2014 4:37:37 PM

14-04-100 2

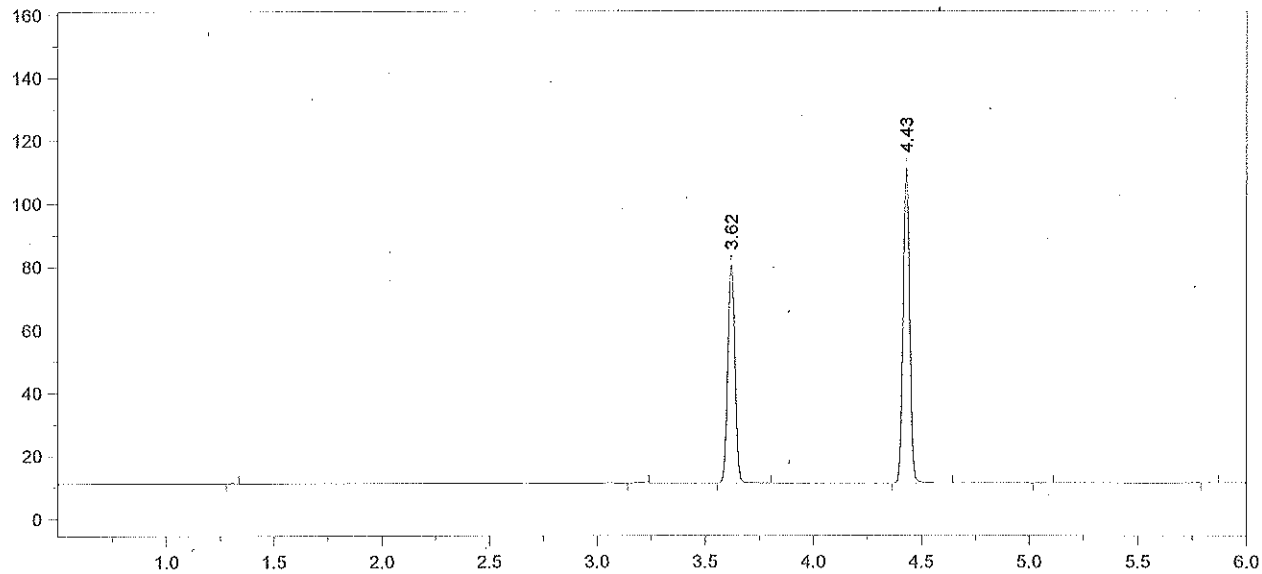
File Name = C:\Alcohol Data\SIM05272014\SIM05272014.SEQ
Version = 1
File Date = 5/27/2014 2:28:51 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM05272014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM05272014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM05272014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM05272014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM05272014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM05272014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM05272014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM05272014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM05272014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM05272014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM05272014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM05272014.0012.raw	simsoln.met	14-04-100 RLM	1.00	1.00
13	SIM05272014.0013.raw	simsoln.met	14-04-100 RLM	1.00	1.00
14	SIM05272014.0014.raw	simsoln.met	14-04-100 RLM	1.00	1.00
15	SIM05272014.0015.raw	simsoln.met	14-04-100 RLM	1.00	1.00
16	SIM05272014.0016.raw	simsoln.met	14-04-100 RLM	1.00	1.00
17	SIM05272014.0017.raw	simsoln.met	14-04-100 RLM	1.00	1.00
18	SIM05272014.0018.raw	simsoln.met	14-04-100 RLM	1.00	1.00
19	SIM05272014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM05272014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM05272014.0021.raw	simsoln.met	14-04-100 TLC	1.00	1.00
22	SIM05272014.0022.raw	simsoln.met	14-04-100 TLC	1.00	1.00
23	SIM05272014.0023.raw	simsoln.met	14-04-100 TLC	1.00	1.00
24	SIM05272014.0024.raw	simsoln.met	14-04-100 TLC	1.00	1.00
25	SIM05272014.0025.raw	simsoln.met	14-04-100 TLC	1.00	1.00
26	SIM05272014.0026.raw	simsoln.met	14-04-100 TLC	1.00	1.00
27	SIM05272014.0027.raw	simsoln.met	14-04-100 TLC	1.00	1.00
28	SIM05272014.0028.raw	Blood Alc temp VFL.MET	In-House Prep] Test prep	1.00	1.00
29	SIM05272014.0029.raw	Blood Alc temp VFL.MET	In-House Prep] samples	1.00	1.00
30	SIM05272014.0030.raw	Blood Alc temp VFL.MET	CCS not included	1.00	1.00
31	SIM05272014.0031.raw	Blood Alc temp VFL.MET	CCS RZM 5/28/14	1.00	1.00

Internal Standard: IS-03202014
Timing Mix: TMX-08122013
~~External~~ Ethanol Standard: ES-03182014
RZM 5/29/14
Aqueous QC: Cerilliant FN02 1111-03
RZM 5/29/14

14-04-100 3 RZM

Chrom Perfect Chromatogram Report

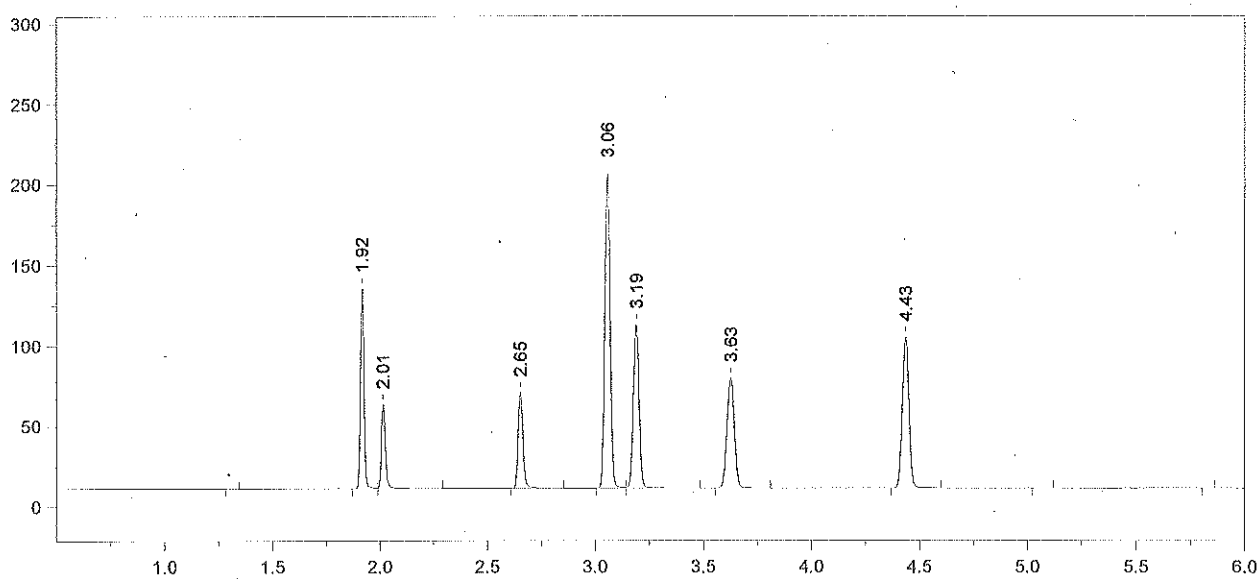


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:33:39 AM
Bound File Name = SIM05272014.0001.RAW
Sample Name = Blank
Date Taken = 5/27/2014 3:05:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.62	t-Butanol	160046	0.9702
4	4.43	n-Propanol	211560	1.0000

14-04-100 4

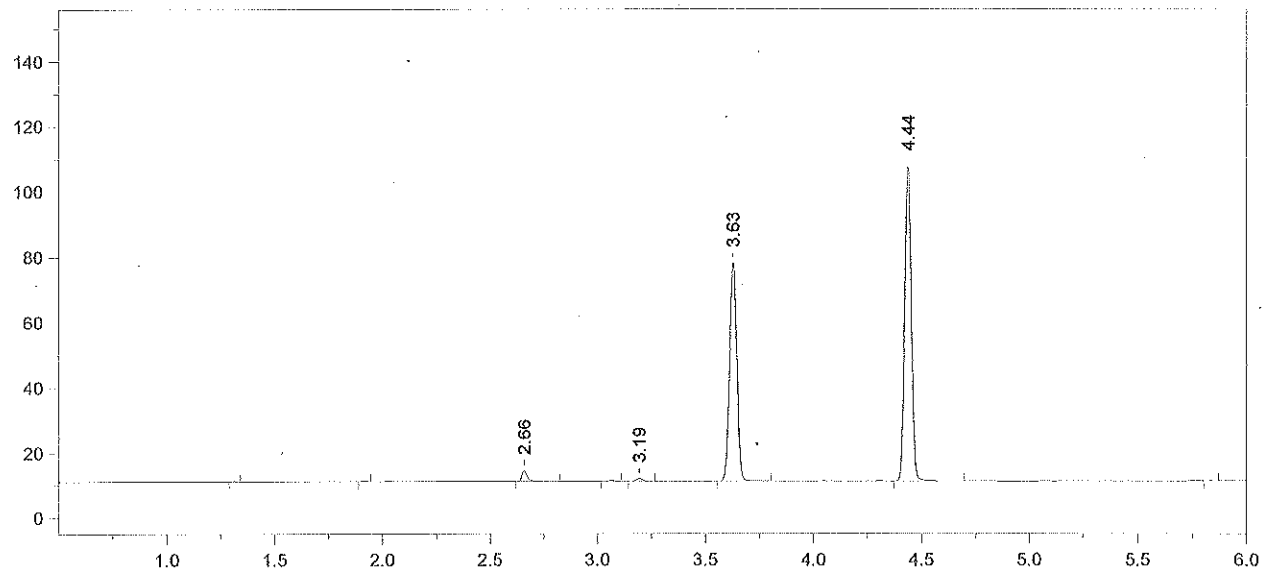


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:33:45 AM
Bound File Name = SIM05272014.0002.RAW
Sample Name = TMX
Date Taken = 5/27/2014 3:22:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	146433	0.0520
3	2.01	Methanol	67266	0.1370
4	2.65	Ethanol	92723	0.0891
5	3.06	Acetone	335901	0.0940
6	3.19	Isopropanol	191467	0.0850
7	3.63	t-Butanol	158571	1.0248
8	4.43	n-Propanol	198432	1.0000

14-04-100 5

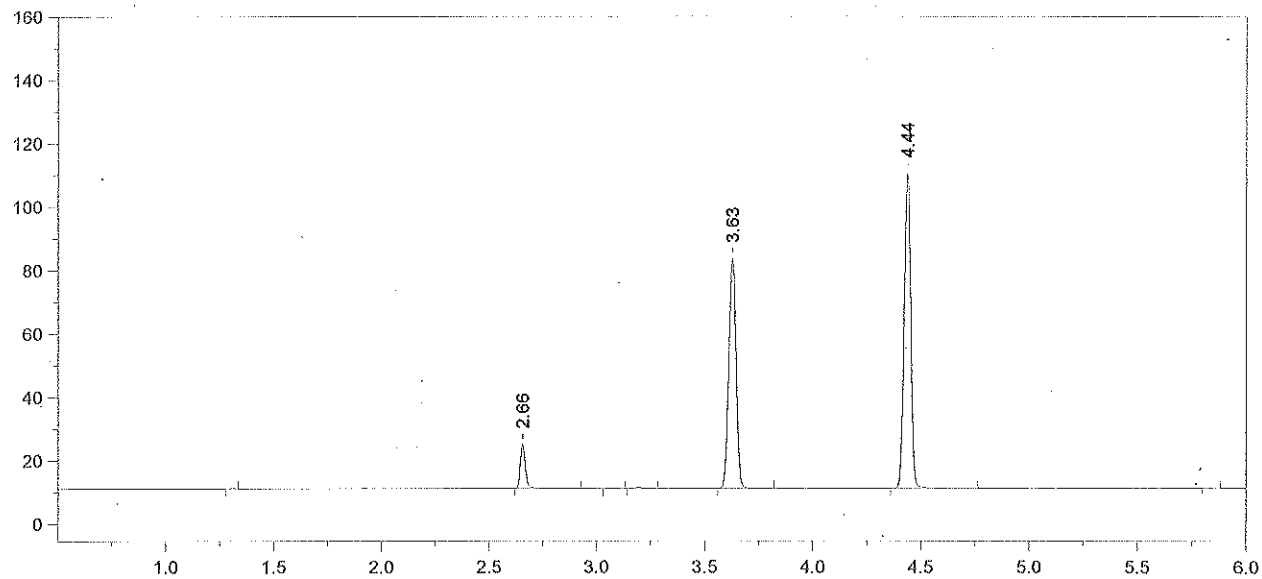


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:33:50 AM
Bound File Name = SIM05272014.0003.RAW
Sample Name = STD A
Date Taken = 5/27/2014 3:36:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05667	0.0053 *
5	3.19	Isopropanol	01574	<0.004
6	3.63	t-Butanol	154906	0.9707
7	4.44	n-Propanol	204650	1.0000

14-04-100 6 RZM

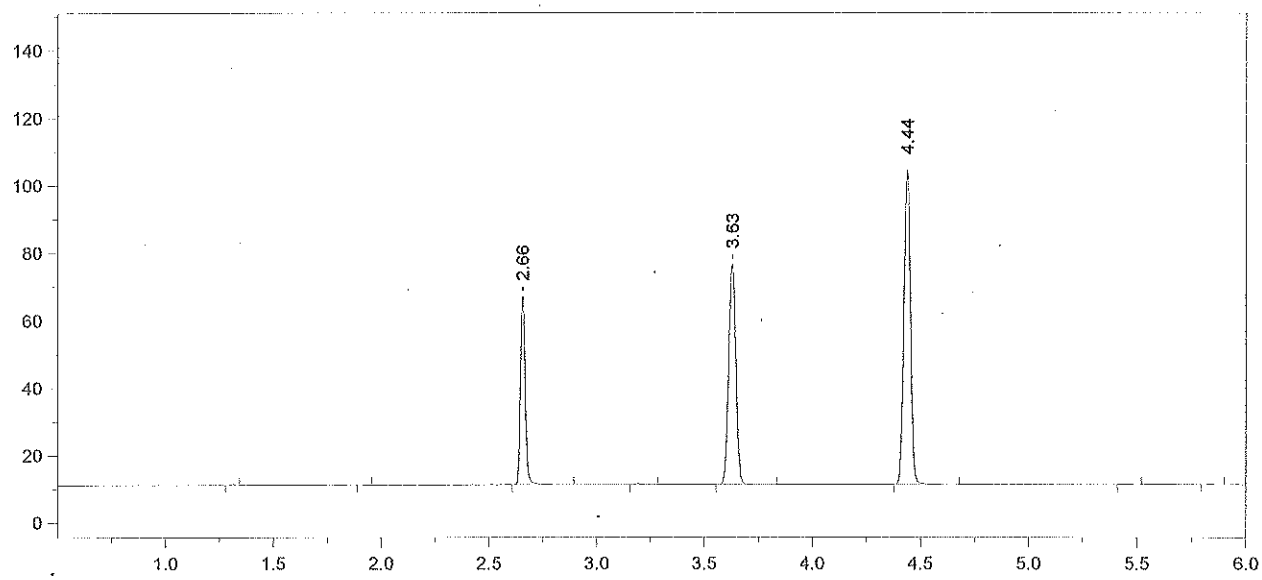


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:33:56 AM
Bound File Name = SIM05272014.0004.RAW
Sample Name = STD B
Date Taken = 5/27/2014 3:52:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	22667	0.0205*
5	3.63	t-Butanol	168546	1.0260
6	4.44	n-Propanol	210666	1.0000

14-04-100 7 KZM

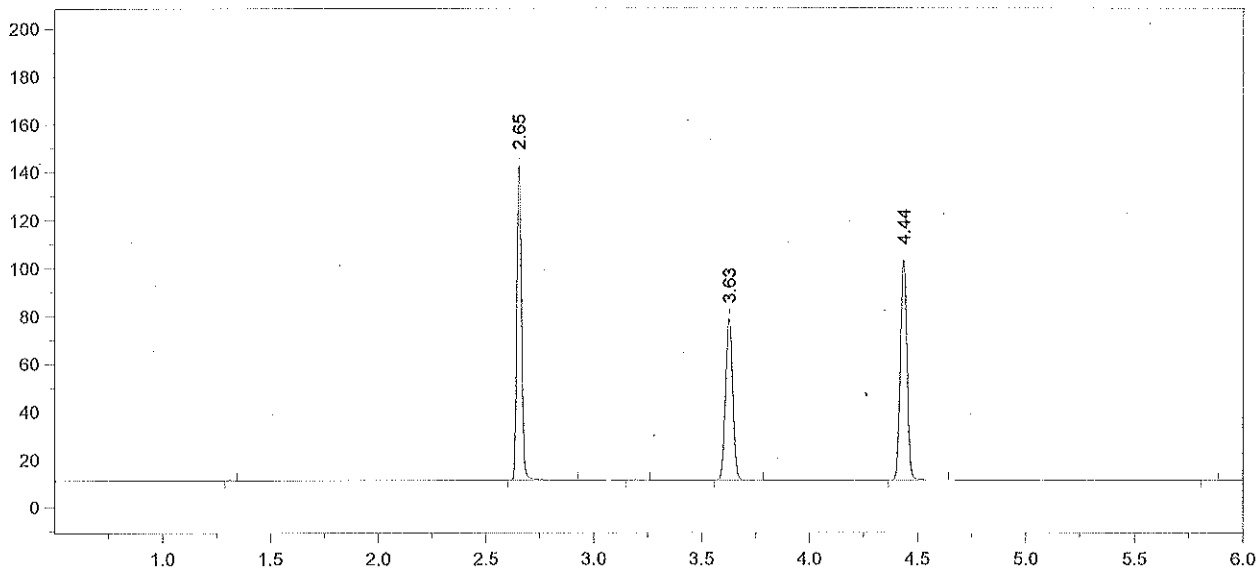


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:34:02 AM
Bound File Name = SIM05272014.0005.RAW
Sample Name = STD C
Date Taken = 5/27/2014 4:07:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	87926	0.0845 *
5	3.63	t-Butanol	151633	0.9811
6	4.44	n-Propanol	198204	1.0000

14-04-100 8 KM

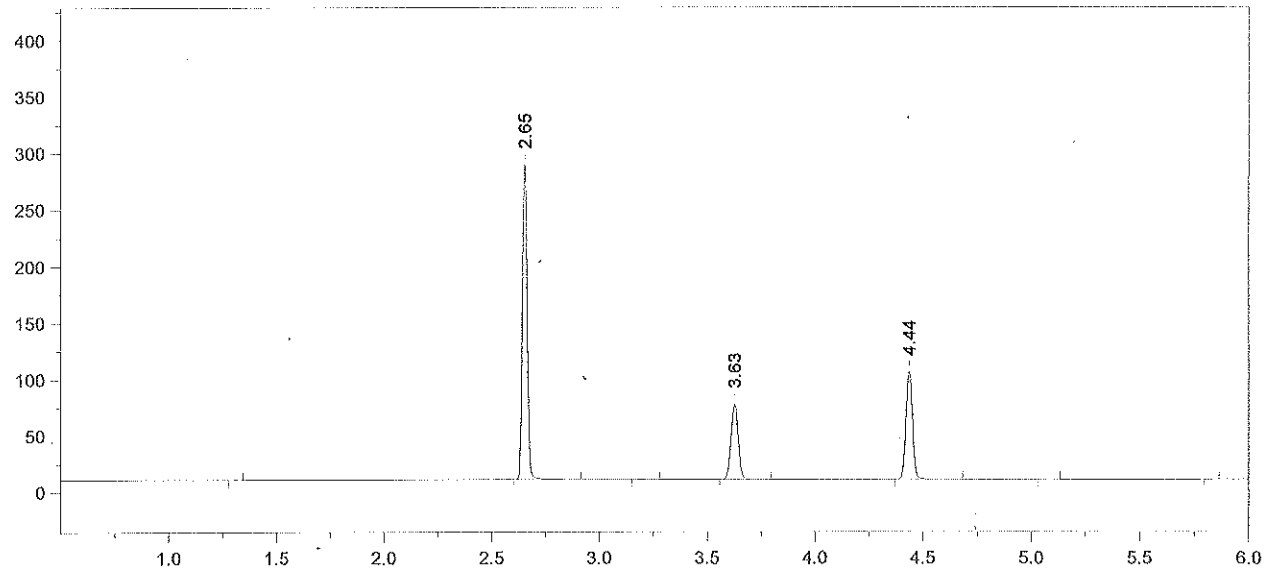


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:34:07 AM
Bound File Name = SIM05272014.0006.RAW
Sample Name = STD D
Date Taken = 5/27/2014 4:23:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	202340	0.1977 *
4	3.63	t-Butanol	155994	1.0256
5	4.44	n-Propanol	195059	1.0000

14-04-100 9 [illegible]

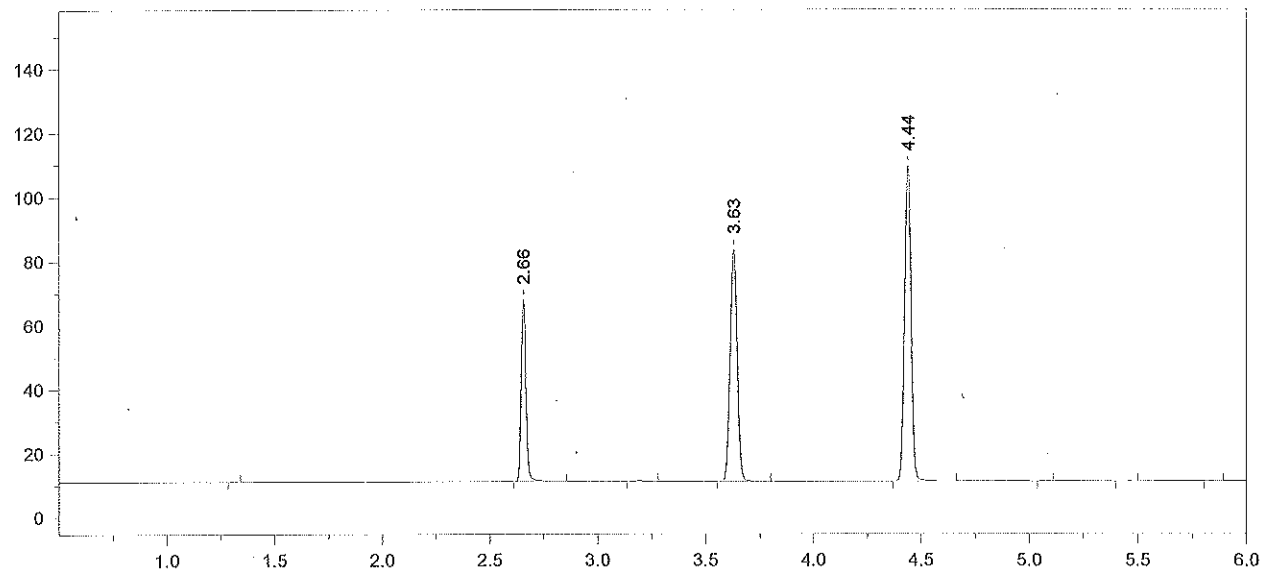


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:34:13 AM
Bound File Name = SIM05272014.0007.RAW
Sample Name = STD E
Date Taken = 5/27/2014 4:37:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	431585	0.4043 *
4	3.63	t-Butanol	154139	0.9717
5	4.44	n-Propanol	203420	1.0000

14-04-100 10 RZM

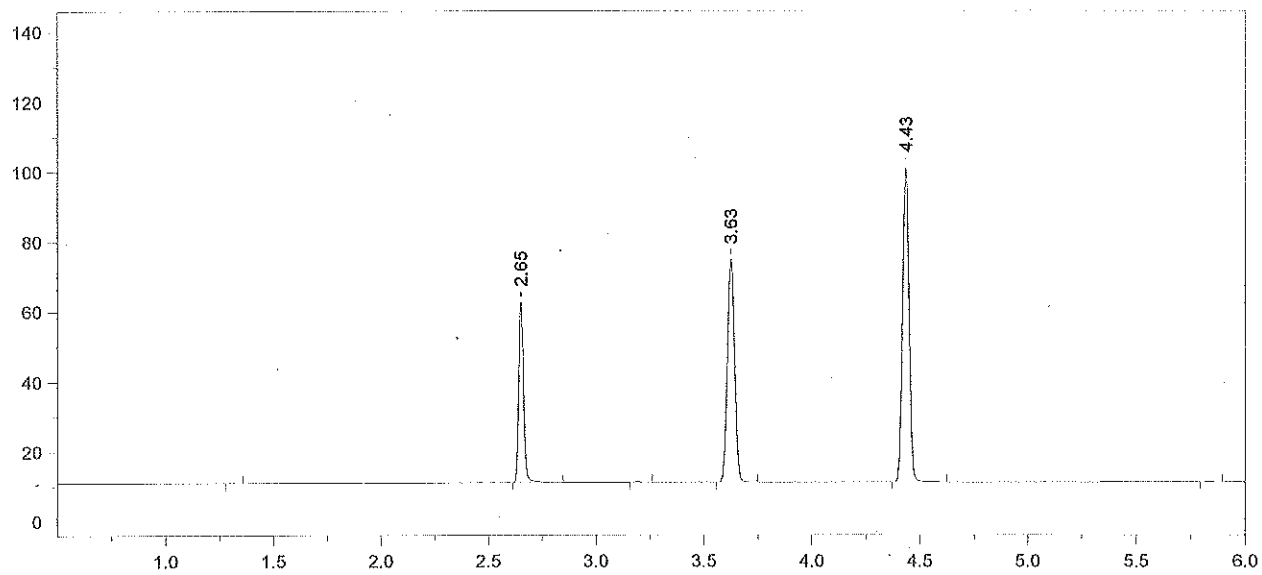


Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 4:53:42 PM
Bound File Name = SIM05272014.0008.RAW
Sample Name = AQ QC
Date Taken = 5/27/2014 4:53:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	88336	0.0801
4	3.63	t-Butanol	167102	1.0196
5	4.44	n-Propanol	210184	1.0000

14-04-100 11



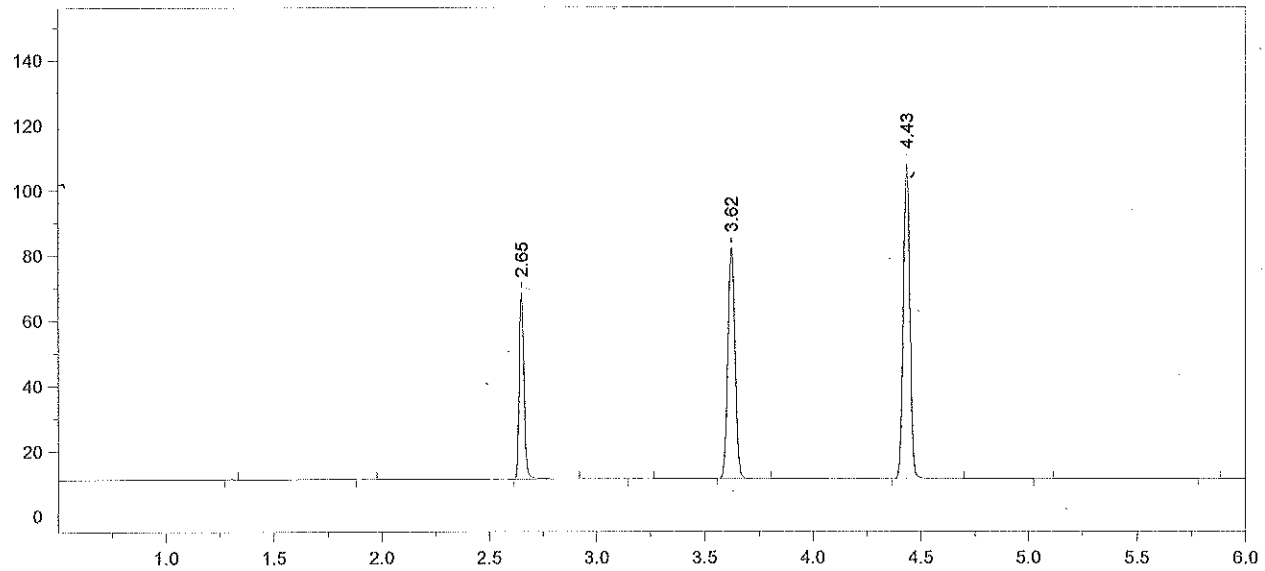
Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 5:10:17 PM
Bound File Name = SIM05272014.0009.RAW
Sample Name = AQ QC
Date Taken = 5/27/2014 5:10:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80869	0.0808 *
4	3.63	t-Butanol	147746	0.9935
5	4.43	n-Propanol	190718	1.0000

Avg # 8 + #9 = 0.080
Target value: 0.080
% recovery = 100%
TLM 5/28/14

14-04-100 12 TLM

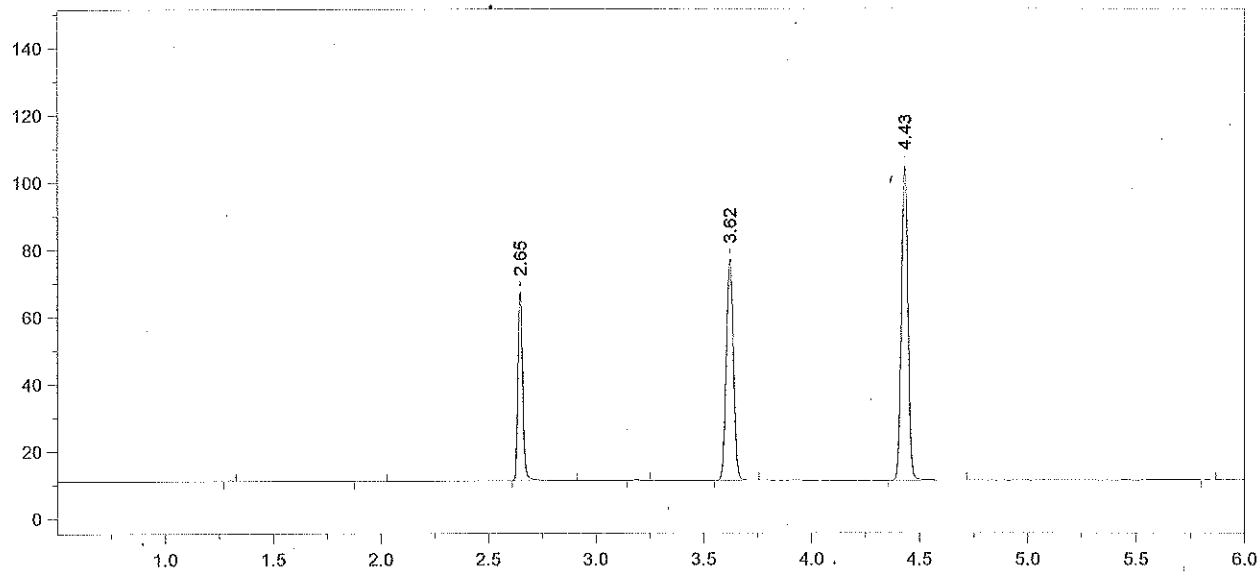


Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 5:23:34 PM
Bound File Name = SIM05272014.0010.RAW
Sample Name = CCS
Date Taken = 5/27/2014 5:23:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	88786	0.0824
5	3.62	t-Butanol	164388	1.0271
6	4.43	n-Propanol	205253	1.0000

14-04-100 13



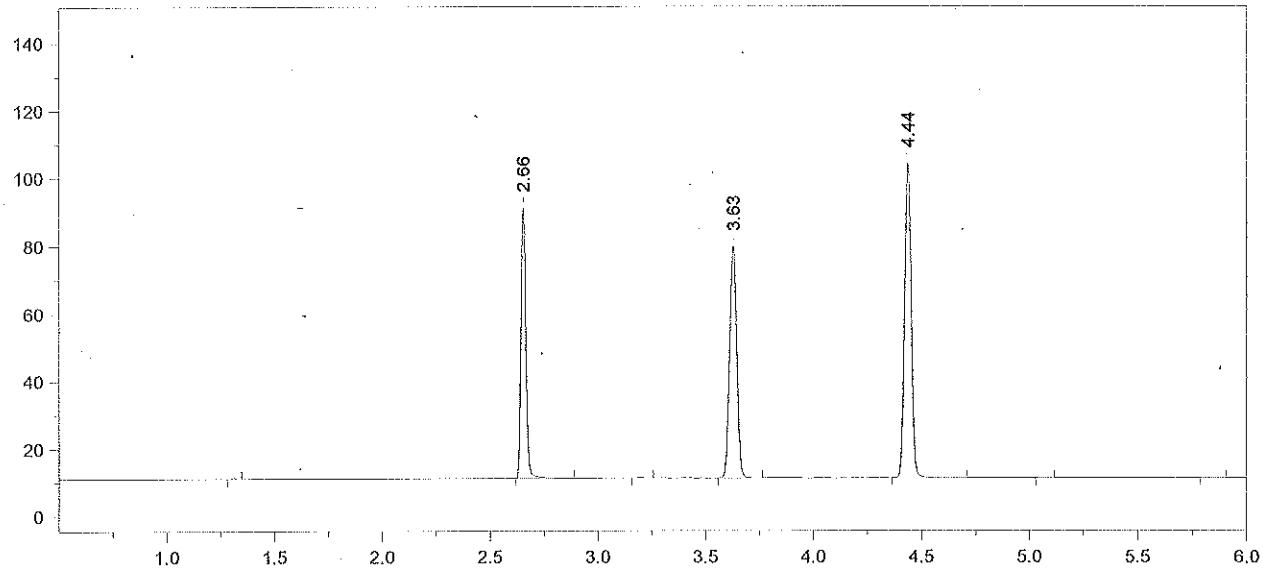
Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 5:40:27 PM
Bound File Name = SIM05272014.0011.RAW
Sample Name = CCS
Date Taken = 5/27/2014 5:40:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	88280	0.0843*
5	3.62	t-Butanol	152241	0.9780
6	4.43	n-Propanol	199633	1.0000

Avg #10 + #11 = 0.083
RZM 5/28/14

14-04-100 14 RZM

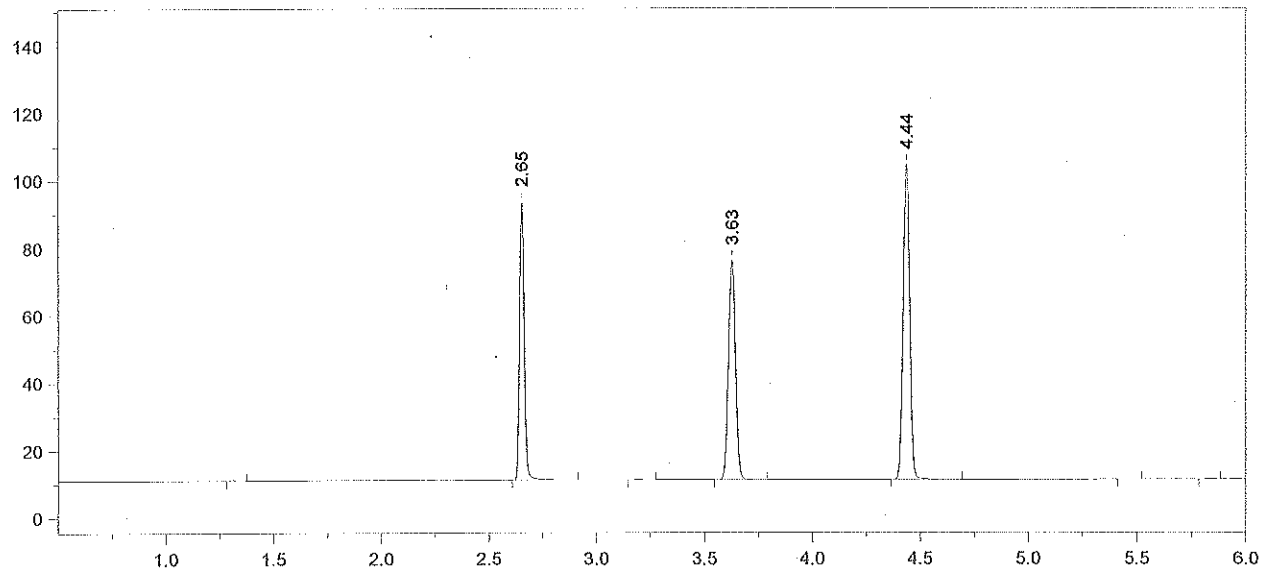


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 5:56:39 PM
Bound File Name = SIM05272014.0012.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 5:56:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125076	0.1204	0.0983
4	3.63	t-Butanol	158606	1.0275	0.8386
5	4.44	n-Propanol	197964	1.0000	0.8162

14-04-100 15 RLM

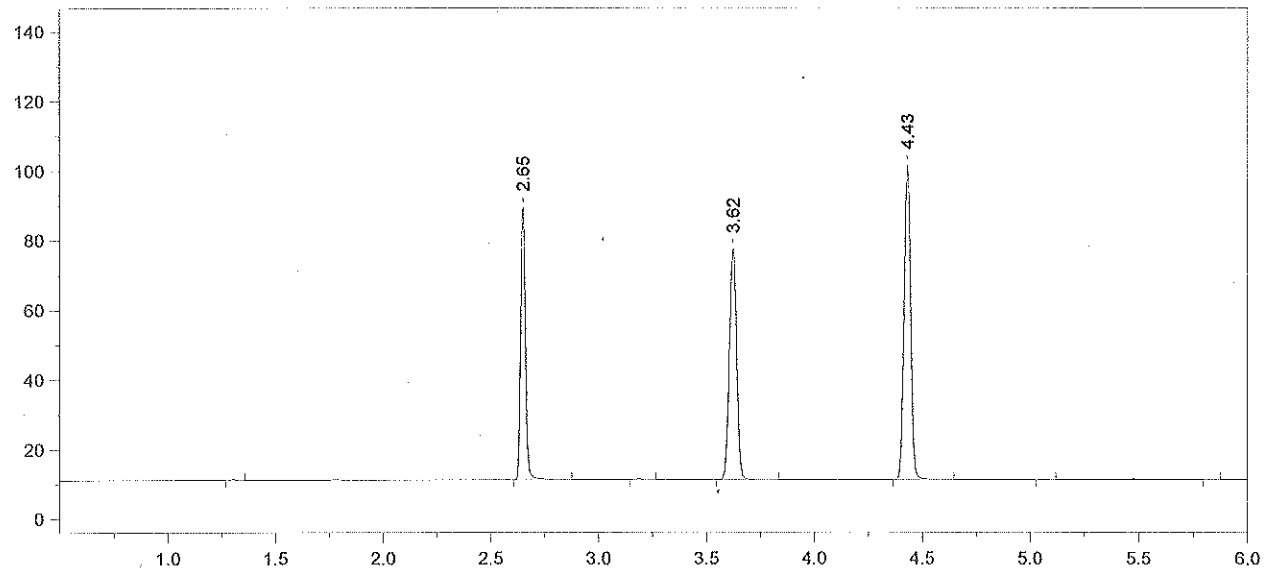


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 6:10:12 PM
Bound File Name = SIM05272014.0013.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 6:10:08 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127881	0.1229	0.1003
4	3.63	t-Butanol	150414	0.9725	0.7937
5	4.44	n-Propanol	198356	1.0000	0.8162

14-04-100 16 RLM

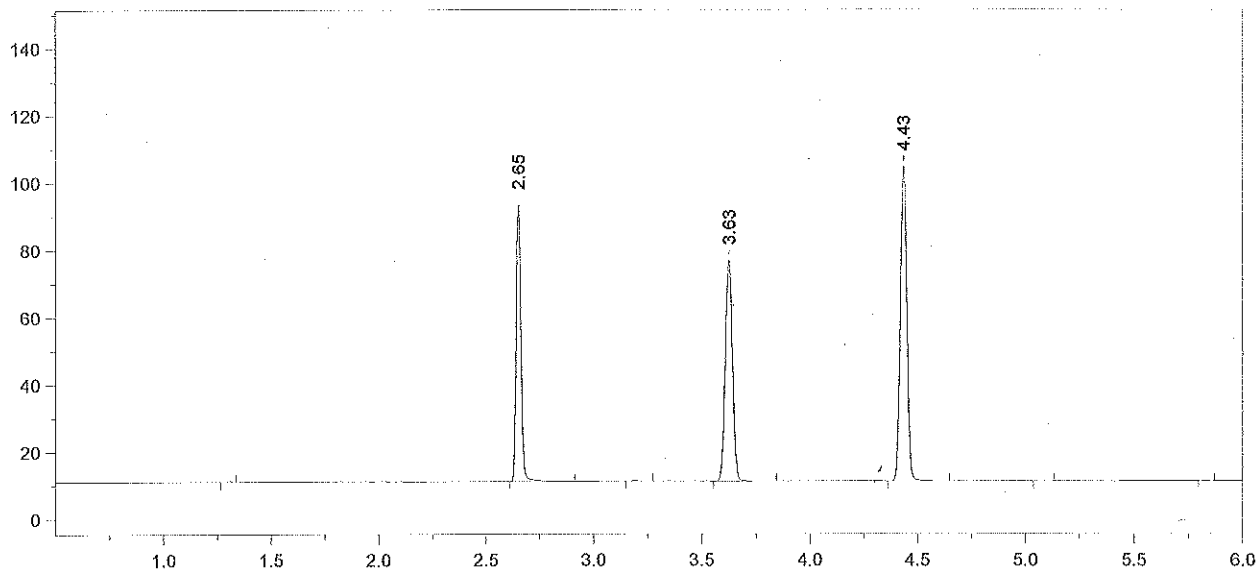


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 6:28:00 PM
Bound File Name = SIM05272014.0014.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 6:27:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121578	0.1209	0.0986
4	3.62	t-Butanol	153255	1.0252	0.8367
5	4.43	n-Propanol	191712	1.0000	0.8162

14-04-100 17 RLM

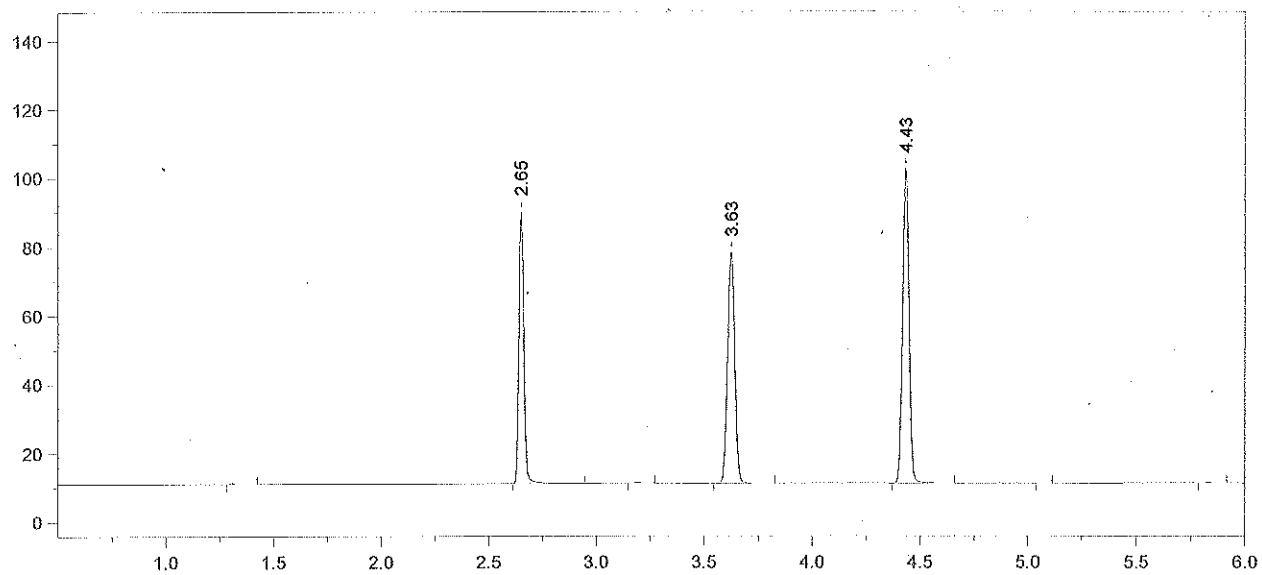


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 6:41:31 PM
Bound File Name = SIM05272014.0015.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 6:41:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129022	0.1233	0.1006
4	3.63	t-Butanol	151800	0.9760	0.7966
5	4.43	n-Propanol	199466	1.0000	0.8162

14-04-100 18 RLM

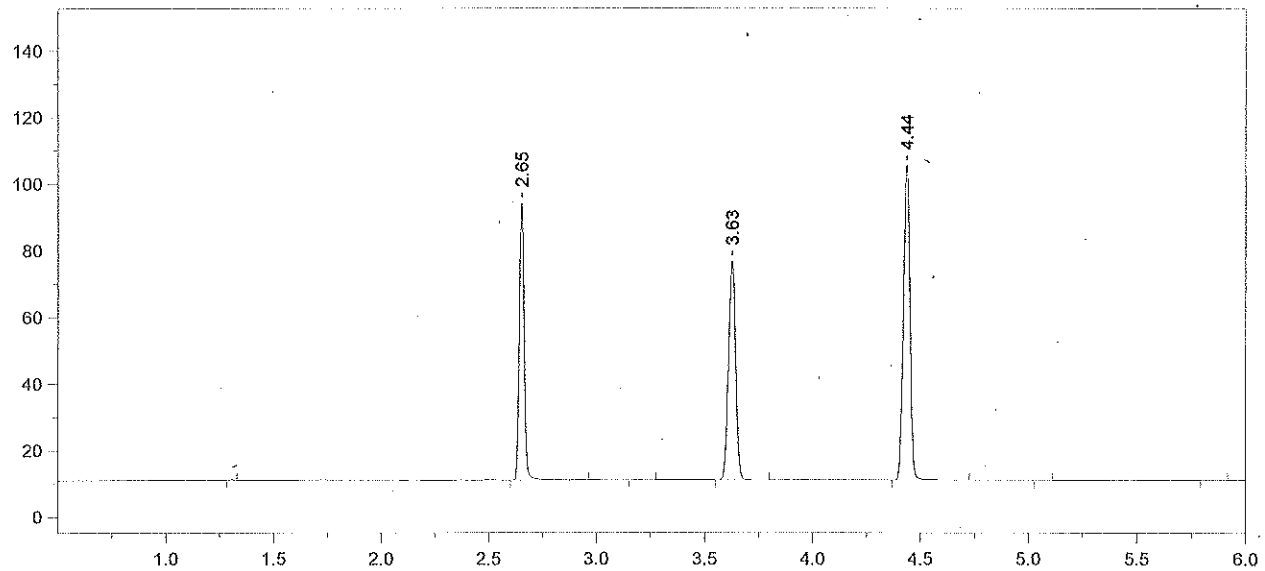


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 6:59:30 PM
Bound File Name = SIM05272014.0016.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 6:59:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123484	0.1212	0.0989
4	3.63	t-Butanol	155385	1.0258	0.8373
5	4.43	n-Propanol	194252	1.0000	0.8162

14-04-100 19 RLM

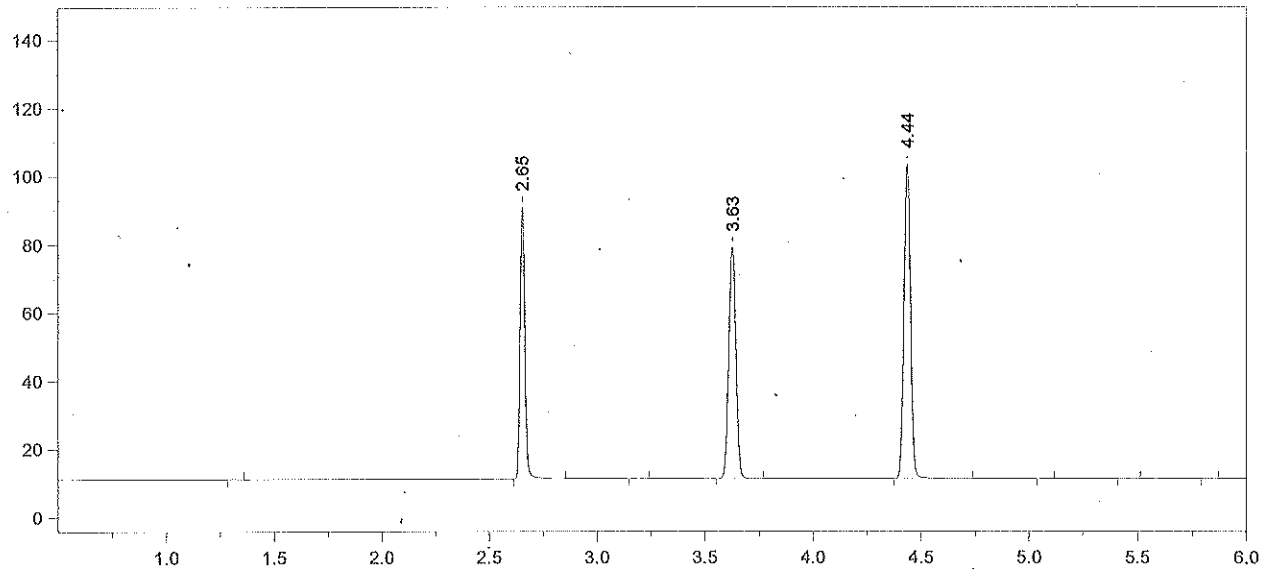


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 7:12:44 PM
Bound File Name = SIM05272014.0017.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 7:12:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129314	0.1226	0.1001
4	3.63	t-Butanol	152152	0.9708	0.7923
5	4.44	n-Propanol	201003	1.0000	0.8162

14-04-100 20 RLM

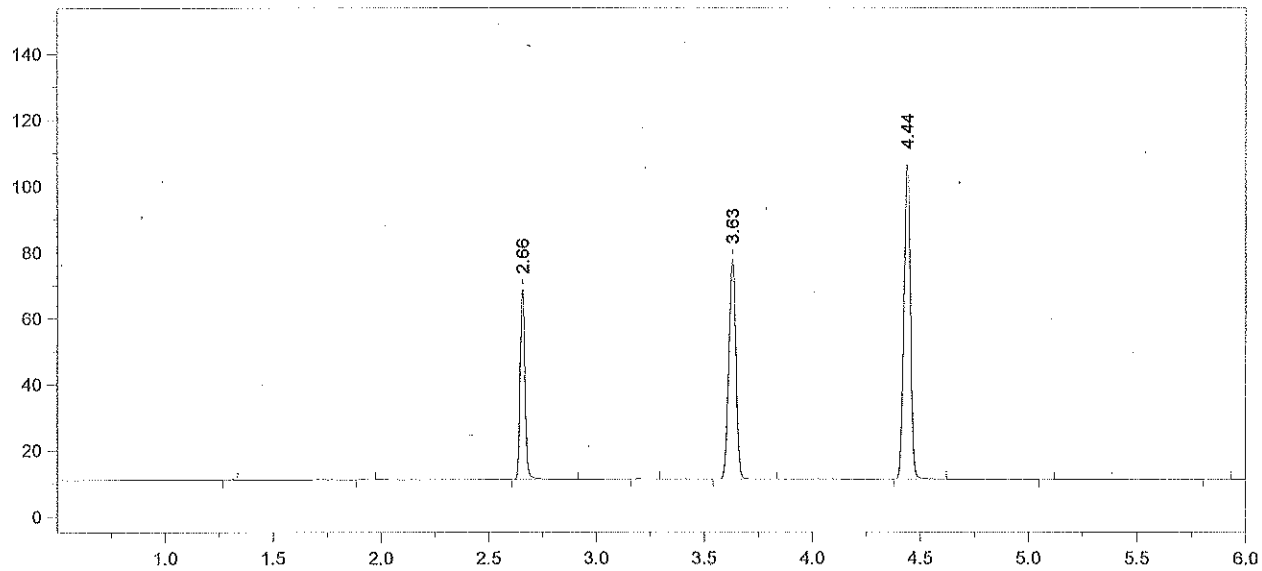


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 7:30:53 PM
Bound File Name = SIM05272014.0018.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/27/2014 7:30:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122887	0.1197	0.0977
4	3.63	t-Butanol	157547	1.0323	0.8425
5	4.44	n-Propanol	195726	1.0000	0.8162

14-04-100 21 RLM

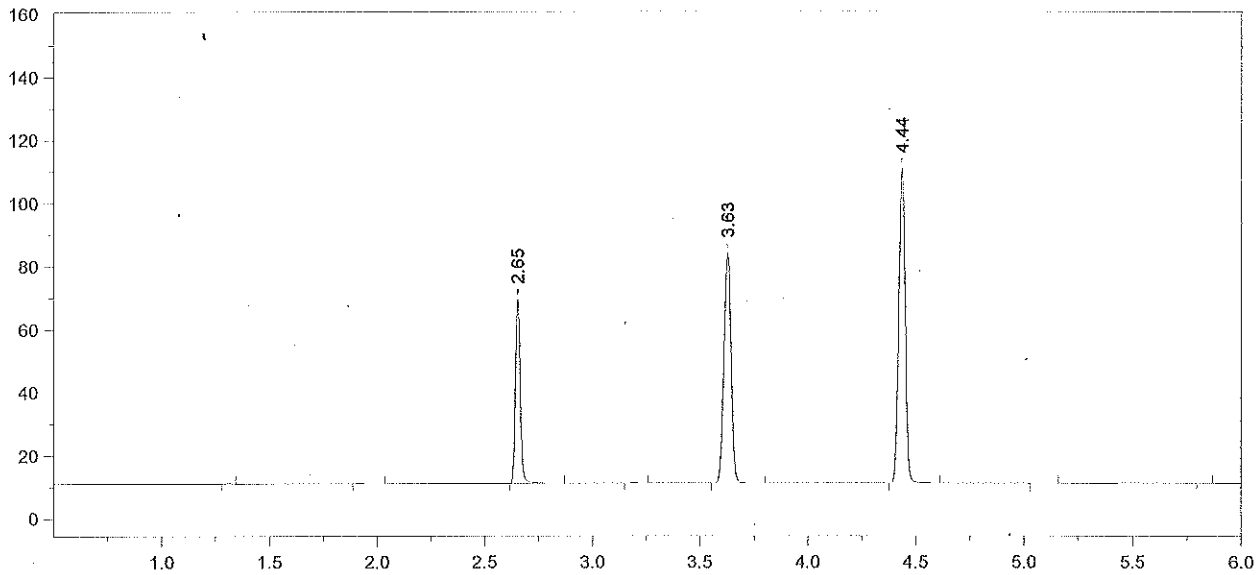


Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 7:44:38 PM
Bound File Name = SIM05272014.0019.RAW
Sample Name = CCS
Date Taken = 5/27/2014 7:44:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	89792	0.0846 *
5	3.63	t-Butanol	153967	0.9758
6	4.44	n-Propanol	202354	1.0000

14-04-100 22 RZM



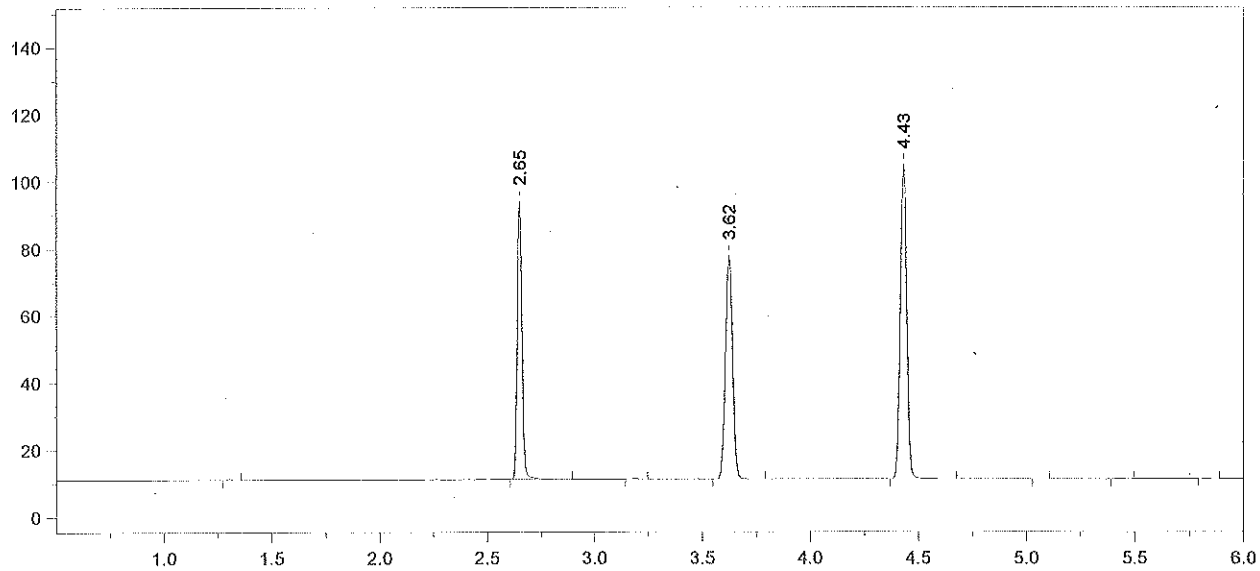
Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 8:00:36 PM
Bound File Name = SIM05272014.0020.RAW
Sample Name = CCS
Date Taken = 5/27/2014 8:00:32 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90623	0.0819 *
5	3.63	t-Butanol	169200	1.0288
6	4.44	n-Propanol	210917	1.0000

Avg #19 + #20 = 0.083
RM 5/28/14

14-04-100 23 RM

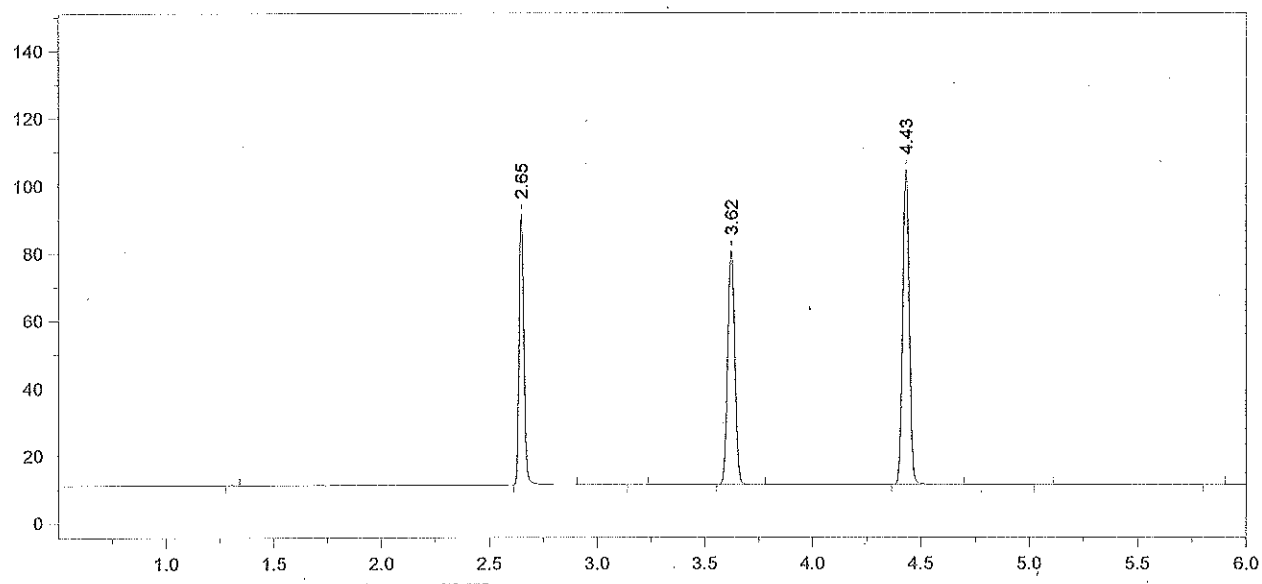


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 8:16:43 PM
Bound File Name = SIM05272014.0021.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 8:16:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127870	0.1222	0.0997
4	3.62	t-Butanol	153731	0.9883	0.8066
5	4.43	n-Propanol	199492	1.0000	0.8162

14-04-100 24 KM

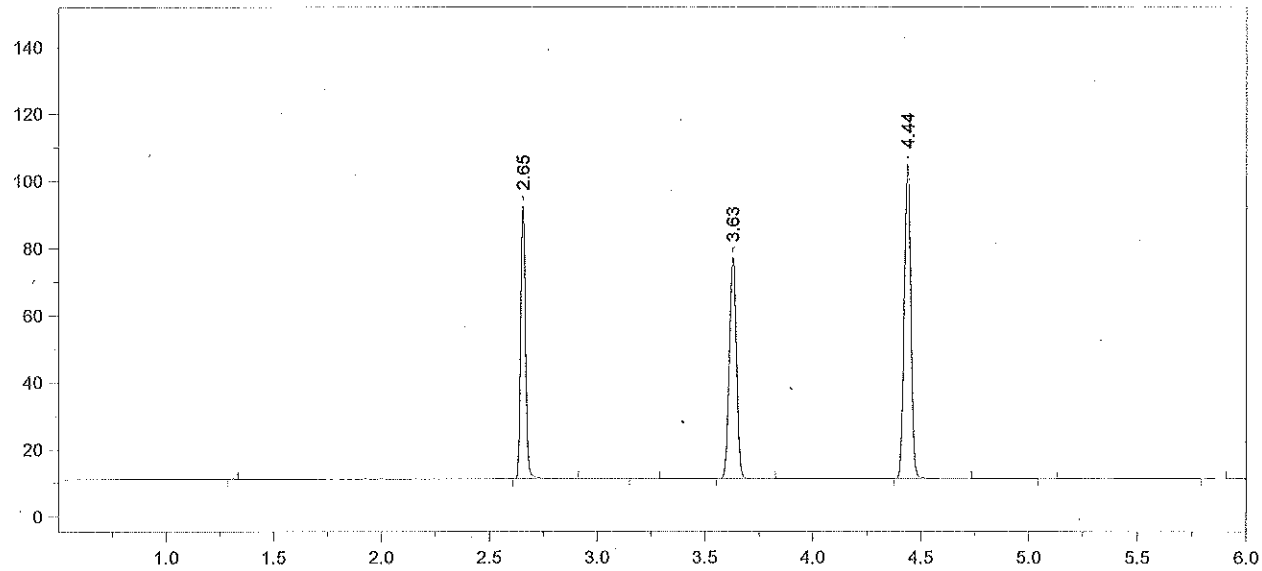


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 8:32:12 PM
Bound File Name = SIM05272014.0022.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 8:32:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124340	0.1190	0.0971
4	3.62	t-Butanol	160531	1.0340	0.8440
5	4.43	n-Propanol	199098	1.0000	0.8162

14-04-100 25 KM

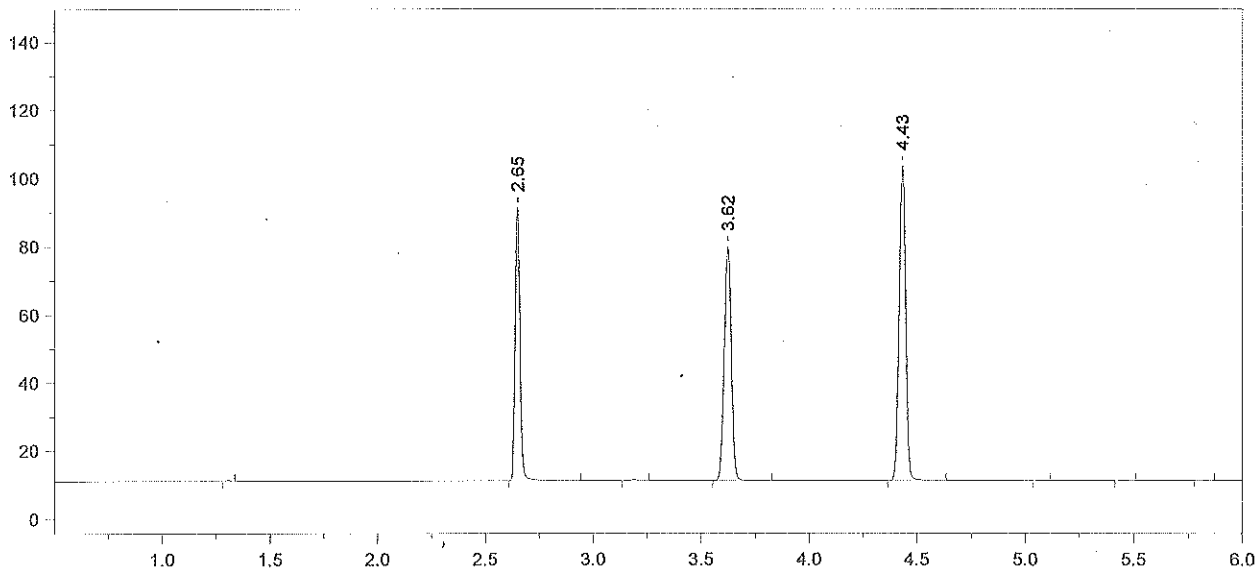


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014 Today's Time = 8:46:58 PM
Bound File Name = SIM05272014.0023.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 8:46:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127535	0.1222	0.0997
4	3.63	t-Butanol	152830	0.9854	0.8043
5	4.44	n-Propanol	198891	1.0000	0.8162

14-04-100 26 RM

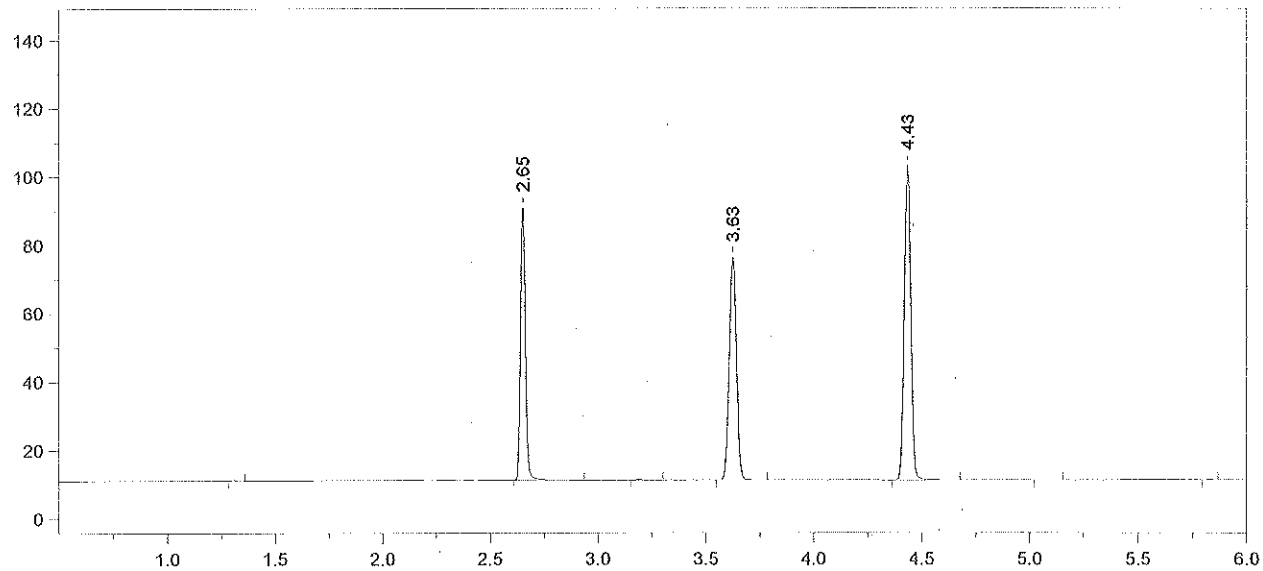


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 9:03:39 PM
Bound File Name = SIM05272014.0024.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 9:03:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124031	0.1199	0.0978
4	3.62	t-Butanol	158386	1.0301	0.8408
5	4.43	n-Propanol	197177	1.0000	0.8162

14-04-100



Format File Name = simsolnVFL.met.FMT

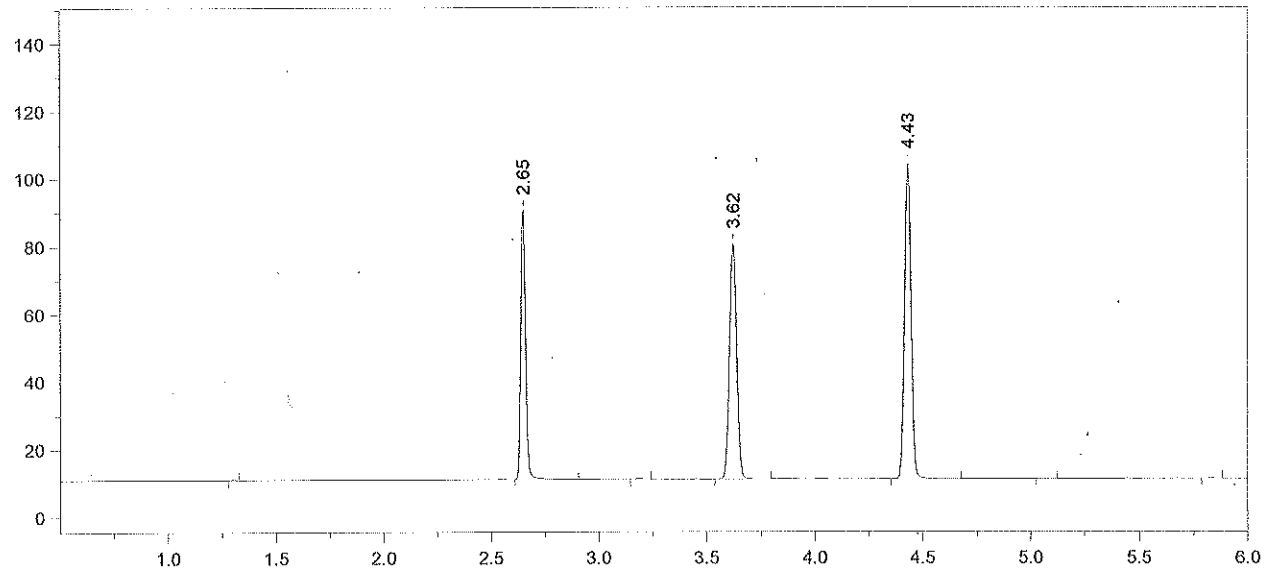
Today's Date = 5/27/2014
Today's Time = 9:17:31 PM
Bound File Name = SIM05272014.0025.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 9:17:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125167	0.1221	0.0997
4	3.63	t-Butanol	151481	0.9946	0.8118
5	4.43	n-Propanol	195324	1.0000	0.8162

14-04-100

28

RLM

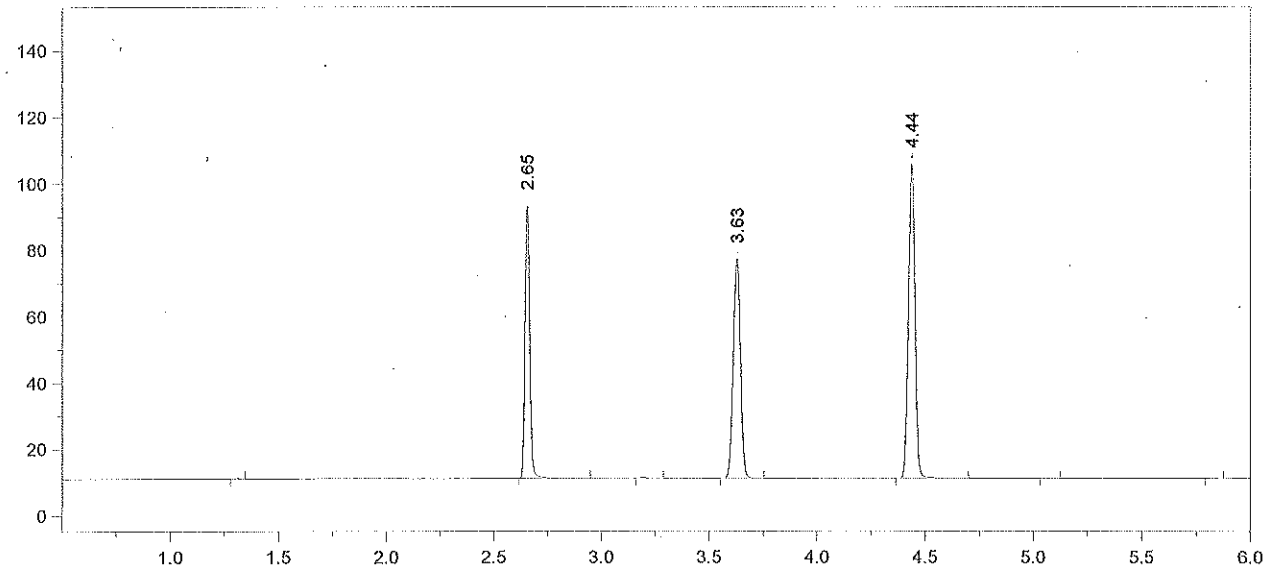


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 9:35:00 PM
Bound File Name = SIM05272014.0026.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 9:34:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122986	0.1187	0.0968
4	3.62	t-Butanol	160334	1.0409	0.8496
5	4.43	n-Propanol	197536	1.0000	0.8162

14-04-100 29 KM

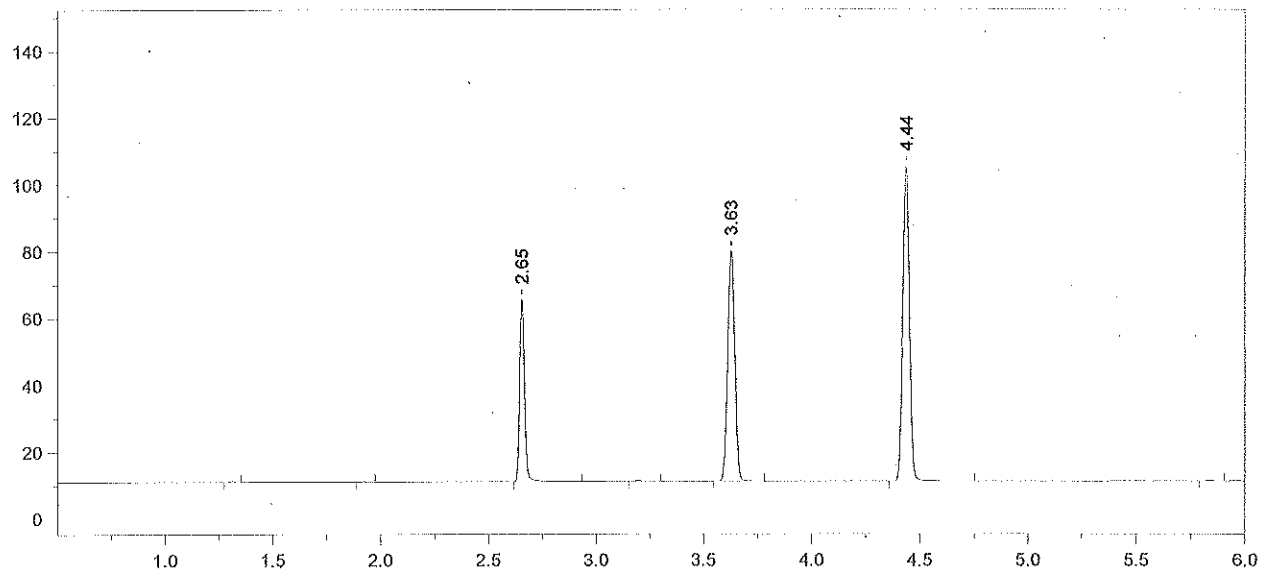


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/27/2014
Today's Time = 9:48:55 PM
Bound File Name = SIM05272014.0027.RAW
Sample Name = 14-04-100 TLC
Date Taken = 5/27/2014 9:48:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128786	0.1222	0.0997
4	3.63	t-Butanol	153515	0.9800	0.7999
5	4.44	n-Propanol	200892	1.0000	0.8162

14-04-100 30 kem



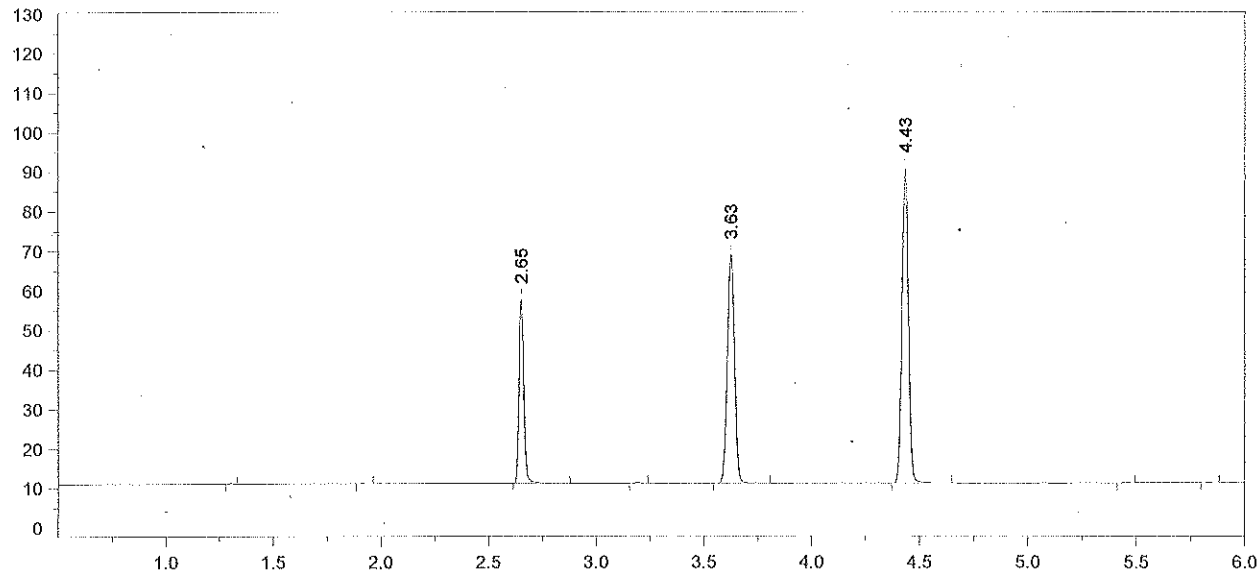
Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 10:36:19 PM
Bound File Name = SIM05272014.0030.RAW
Sample Name = CCS
Date Taken = 5/27/2014 10:36:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	85922	0.0821 *
5	3.63	t-Butanol	159909	1.0280
6	4.44	n-Propanol	199480	1.0000

14-04-100 31 RZM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 5/27/2014
Today's Time = 10:50:09 PM
Bound File Name = SIM05272014.0031.RAW
Sample Name = CCS
Date Taken = 5/27/2014 10:49:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05272014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	73211	0.0828*
5	3.63	t-Butanol	134199	1.0219
6	4.43	n-Propanol	168413	1.0000

Avg #30 + #31 = 0.082
RZM 5/28/14

14-04-100 32 RZM

File Name: C:\Methods\SIM05282014.CAL
Version: 7

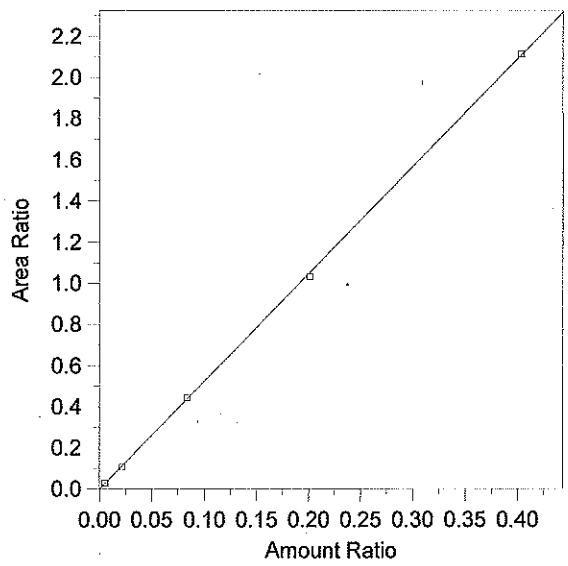
Creator:
Description:
Reason for change:

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

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

All levels are normal data points.

3 Ethanol



Expected retention time: 2.654 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

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

Single peak quantification by area

Y = 5.227031 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9998731
Average error: 1.567%
Average CF: 5.210282
RSD: 2.004%

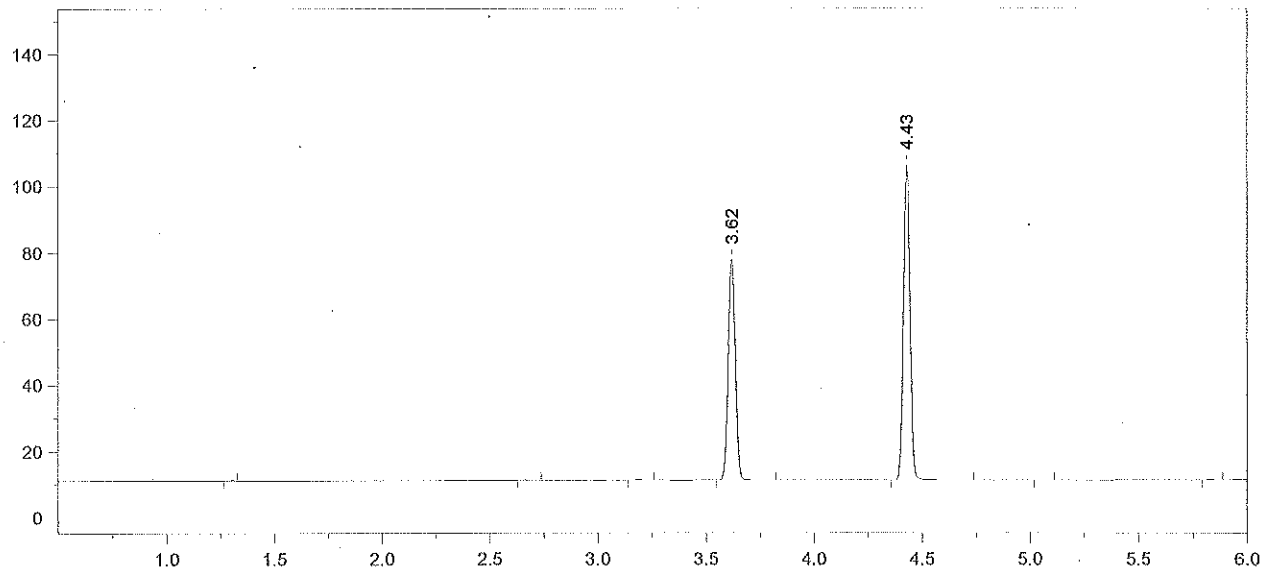
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0052	5556.879	1068631	1.772	0.0052	2.766227E-02	C:\Alcohol Data\SIM05282014\SIM05282014.0003.BND	5/28/2014 2:48:46 PM
3	0.021	21529.96	1025236	-3.106	0.021	0.1063583	C:\Alcohol Data\SIM05282014\SIM05282014.0004.BND	5/28/2014 3:07:04 PM
4	0.0837	90972.69	1086890	0.978	0.0837	0.4417812	C:\Alcohol Data\SIM05282014\SIM05282014.0005.BND	5/28/2014 3:20:35 PM
5	0.2009	198482	987964.1	-1.613	0.2009	1.033167	C:\Alcohol Data\SIM05282014\SIM05282014.0006.BND	5/28/2014 3:38:30 PM
6	0.4029	411876.8	1022281	0.367	0.4029	2.113702	C:\Alcohol Data\SIM05282014\SIM05282014.0007.BND	5/28/2014 3:52:22 PM

File Name = C:\Alcohol Data\SIM05282014\SIM05282014.SEQ
Version = 1
File Date = 5/28/2014 1:42:12 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM05282014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM05282014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM05282014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM05282014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM05282014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM05282014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM05282014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM05282014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM05282014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM05282014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM05282014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM05282014.0012.raw	simsoln.met	14-04-100 RLM	1.00	1.00
13	SIM05282014.0013.raw	simsoln.met	14-04-100 RLM	1.00	1.00
14	SIM05282014.0014.raw	simsoln.met	14-04-100 RLM	1.00	1.00
15	SIM05282014.0015.raw	simsoln.met	14-04-100 RLM	1.00	1.00
16	SIM05282014.0016.raw	simsoln.met	14-04-100 RLM	1.00	1.00
17	SIM05282014.0017.raw	simsoln.met	14-04-100 RLM	1.00	1.00
18	SIM05282014.0018.raw	simsoln.met	14-04-100 RLM	1.00	1.00
19	SIM05282014.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM05282014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM05282014.0021.raw	simsoln.met	14-04-100 ALB	1.00	1.00
22	SIM05282014.0022.raw	simsoln.met	14-04-100 ALB	1.00	1.00
23	SIM05282014.0023.raw	simsoln.met	14-04-100 ALB	1.00	1.00
24	SIM05282014.0024.raw	simsoln.met	14-04-100 ALB	1.00	1.00
25	SIM05282014.0025.raw	simsoln.met	14-04-100 ALB	1.00	1.00
26	SIM05282014.0026.raw	simsoln.met	14-04-100 ALB	1.00	1.00
27	SIM05282014.0027.raw	simsoln.met	14-04-100 ALB	1.00	1.00
28	SIM05282014.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM05282014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Internal Standard: IS-03202014
Timing Mix: TMX-08122013
Ethanol External Standard: ES-03182014
RLM 5/29/14
Aqueous QC: Cerilliant FN021111-03
RLM 5/29/14

14-04-100 34 RLM

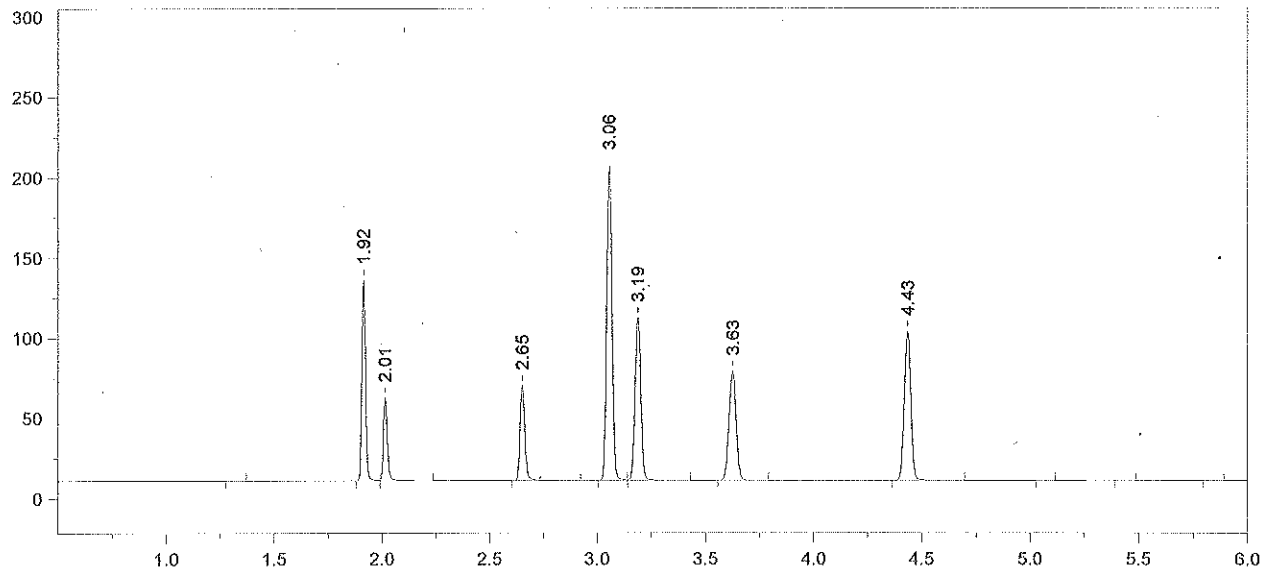


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:00:18 AM
Bound File Name = SIM05282014.0001.RAW
Sample Name = Blank
Date Taken = 5/28/2014 2:17:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	153874	0.9741
5	4.43	n-Propanol	202501	1.0000

14-04-100 35 RLM

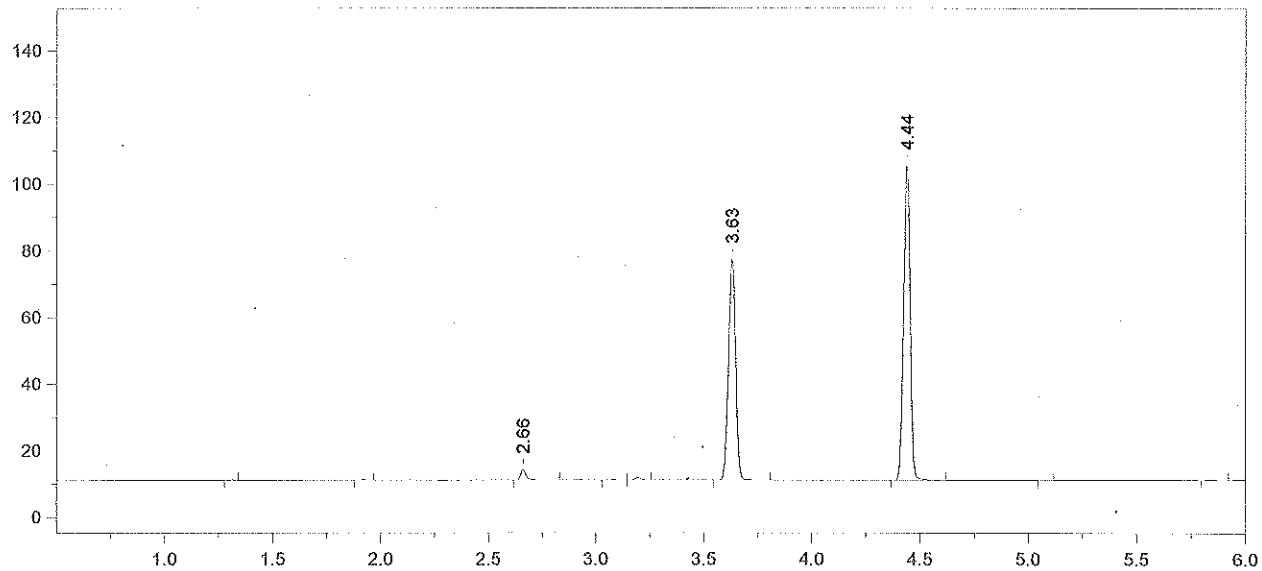


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:00:25 AM
Bound File Name = SIM05282014.0002.RAW
Sample Name = TMX
Date Taken = 5/28/2014 2:35:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	146651	0.0520
3	2.01	Methanol	66181	0.1370
4	2.65	Ethanol	92168	0.0895
5	3.06	Acetone	336122	0.0940
6	3.19	Isopropanol	190599	0.0850
7	3.63	t-Butanol	157603	1.0252
8	4.43	n-Propanol	197065	1.0000

14-04-100 36 RCM

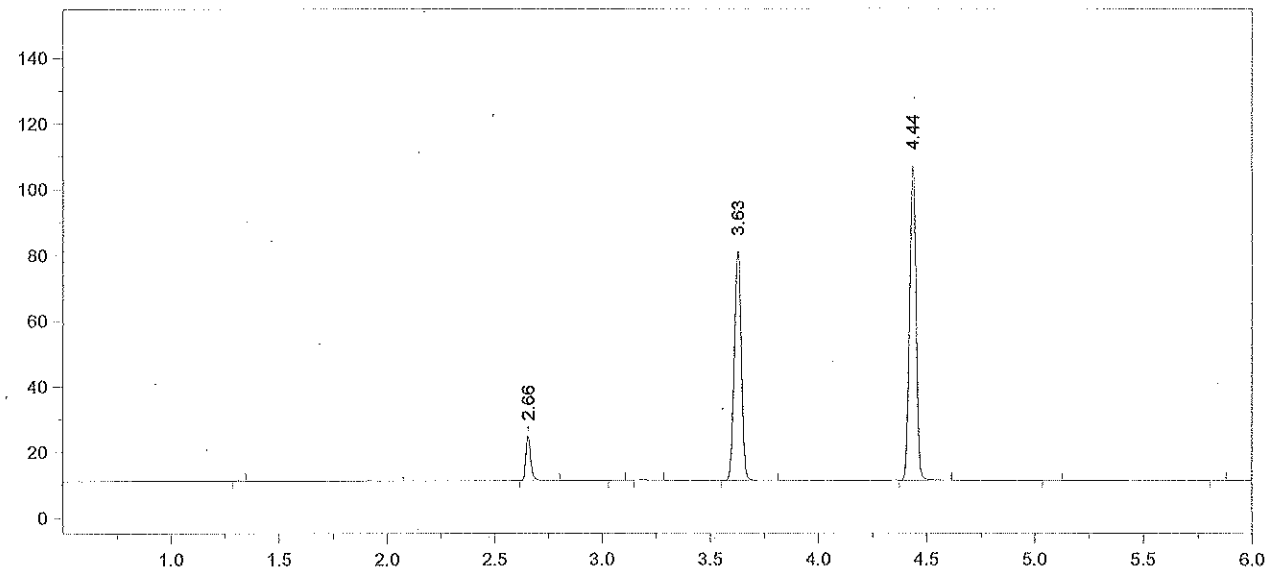


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:00:31 AM
Bound File Name = SIM05282014.0003.RAW
Sample Name = STD A
Date Taken = 5/28/2014 2:48:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05557	0.0053*
6	3.63	t-Butanol	153445	0.9792
7	4.44	n-Propanol	200883	1.0000

14-04-100 37 RM

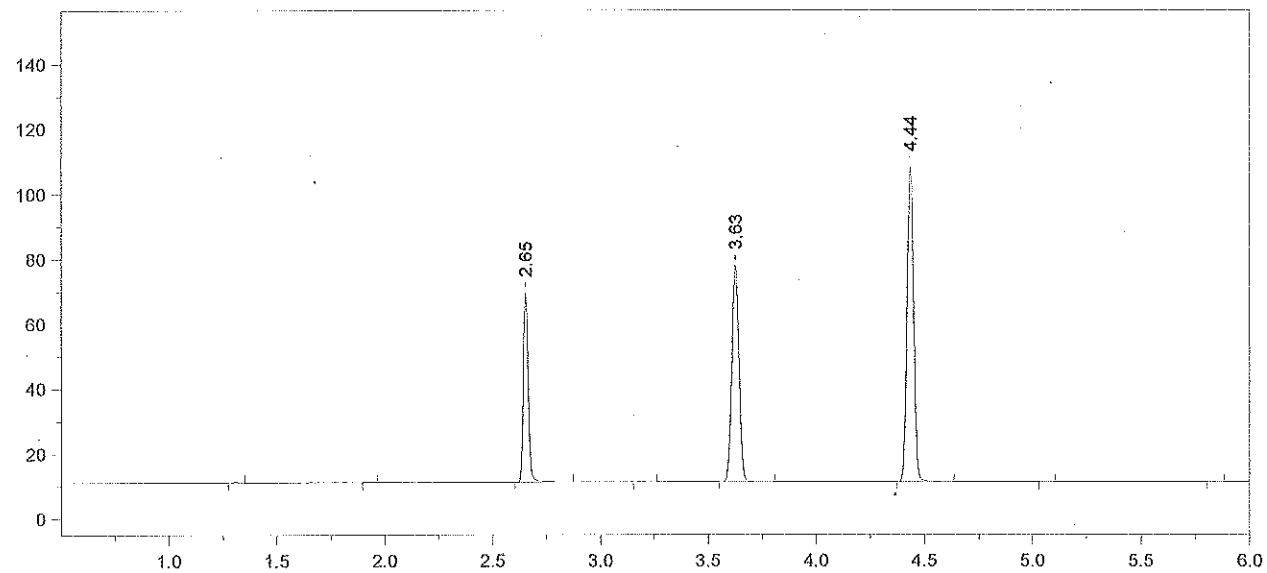


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:00:38 AM
Bound File Name = SIM05282014.0004.RAW
Sample Name = STD B
Date Taken = 5/28/2014 3:06:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	21530	0.0203
5	3.63	t-Butanol	161884	1.0251
6	4.44	n-Propanol	202429	1.0000

14-04-100 38

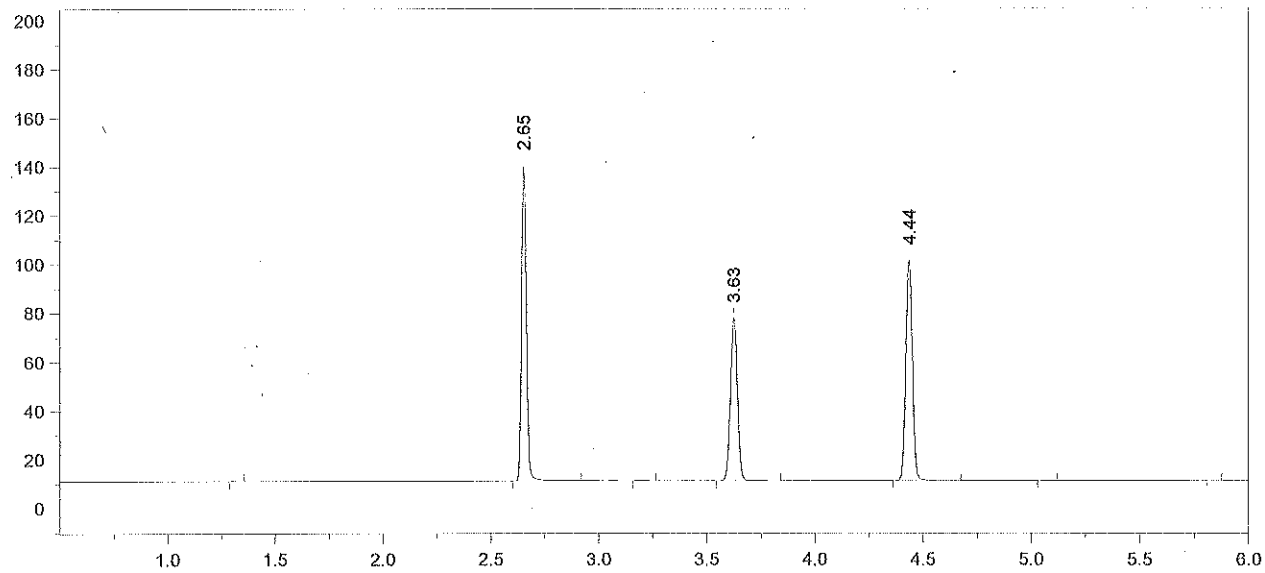


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:00:45 AM
Bound File Name = SIM05282014.0005.RAW
Sample Name = STD C
Date Taken = 5/28/2014 3:20:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90973	0.0845 *
5	3.63	t-Butanol	154940	0.9645
6	4.44	n-Propanol	205923	1.0000

14-04-100 39 RZM

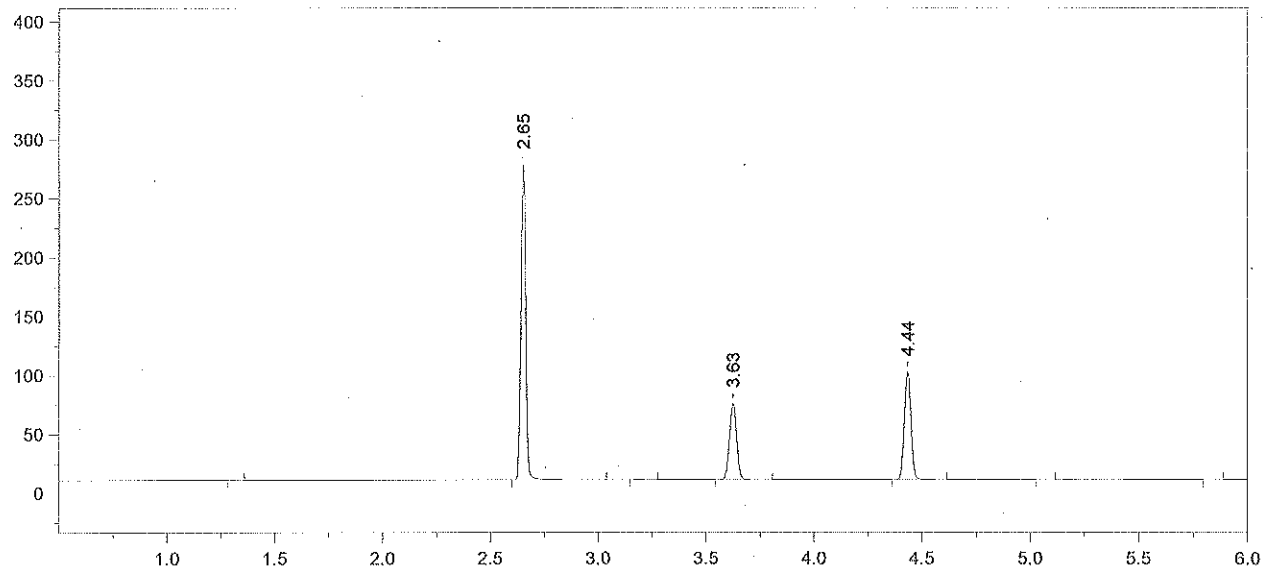


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:00:52 AM
Bound File Name = SIM05282014.0006.RAW
Sample Name = STD D
Date Taken = 5/28/2014 3:38:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	198482	0.1977 *
4	3.63	t-Butanol	153786	1.0262
5	4.44	n-Propanol	192110	1.0000

14-04-100 40 Ren

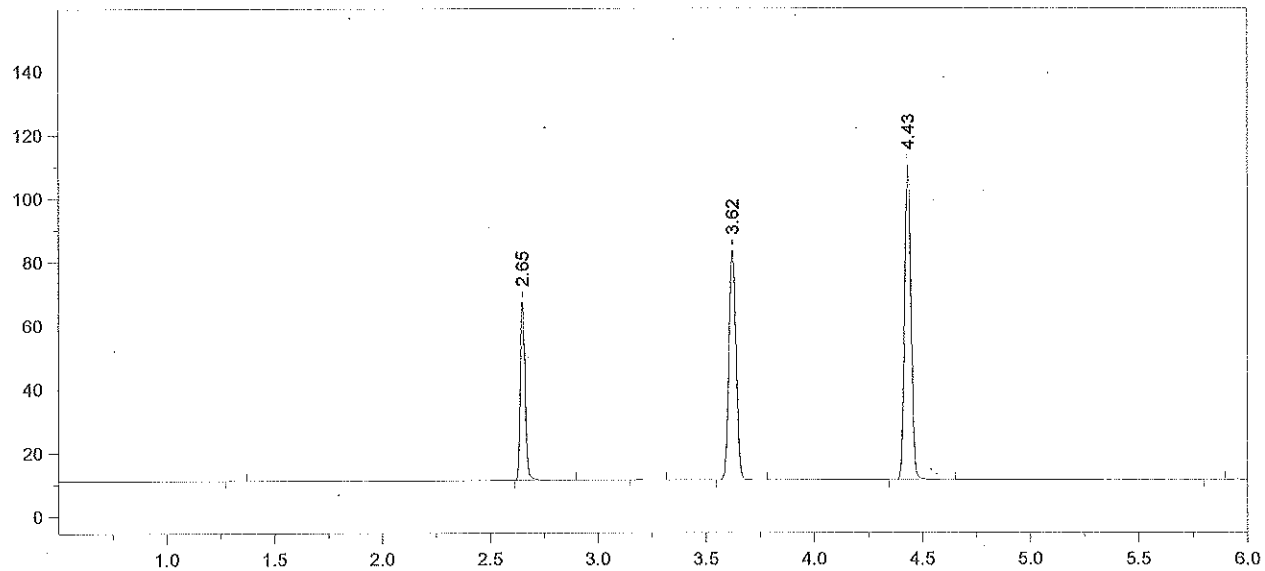


Format File Name = AlcoholVFL.FMT

Today's Date = 5/29/2014
Today's Time = 8:01:00 AM
Bound File Name = SIM05282014.0007.RAW
Sample Name = STD E
Date Taken = 5/28/2014 3:52:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	411877	0.4044 *
4	3.63	t-Butanol	148944	0.9798
5	4.44	n-Propanol	194860	1.0000

14-04-100 41 RM

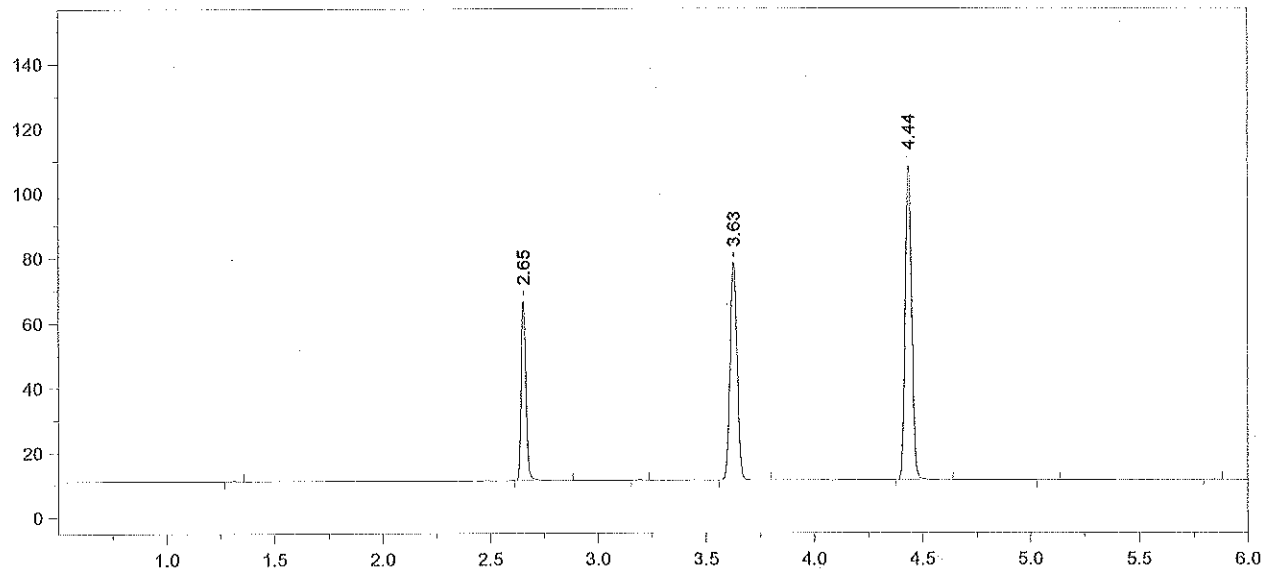


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 4:08:15 PM
Bound File Name = SIM05282014.0008.RAW
Sample Name = AQ QC
Date Taken = 5/28/2014 4:08:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87479	0.0796 *
4	3.62	t-Butanol	167570	1.0218
5	4.43	n-Propanol	210228	1.0000

14-04-100 42 RZM



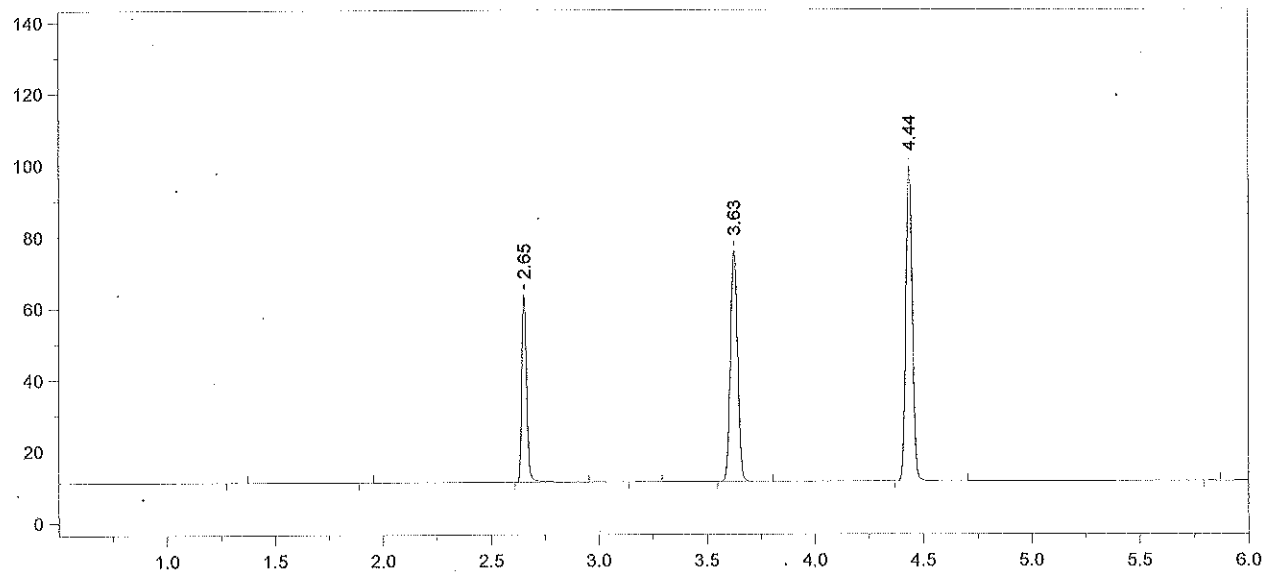
Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 4:23:38 PM
Bound File Name = SIM05282014.0009.RAW
Sample Name = AQ QC
Date Taken = 5/28/2014 4:23:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86688	0.0803*
4	3.63	t-Butanol	156034	0.9689
5	4.44	n-Propanol	206447	1.0000

Avg #8 + #9 = 0.080
Target value: 0.080
% recovery = 100%
Rem 5/29/14

14-04-100 43 Rem

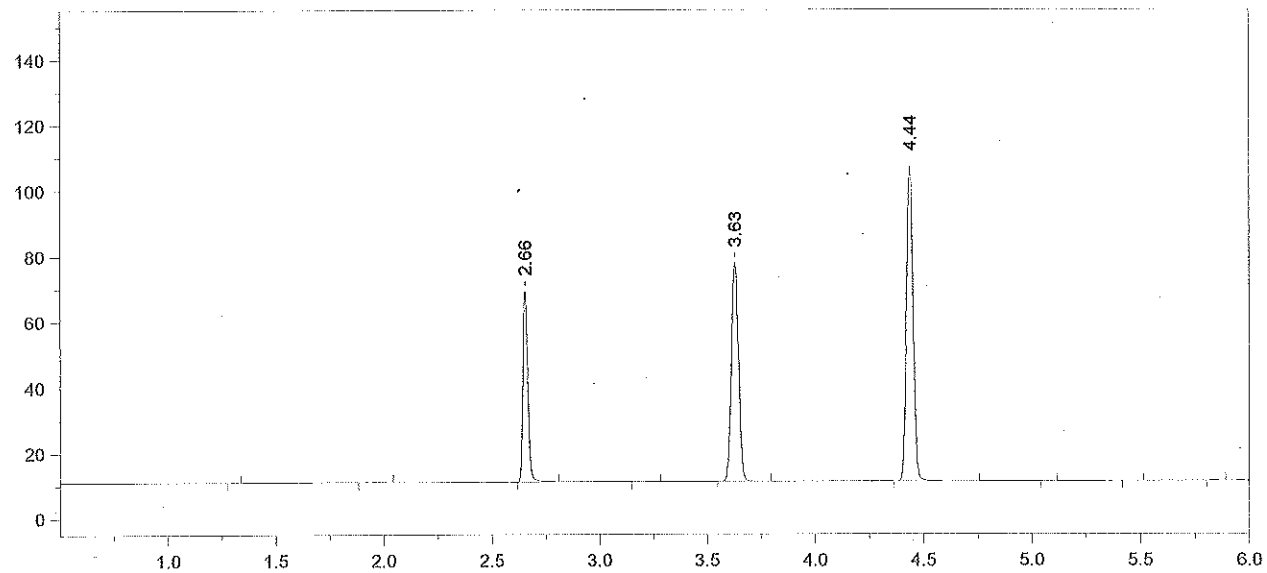


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 4:39:39 PM
Bound File Name = SIM05282014.0010.RAW
Sample Name = CCS
Date Taken = 5/28/2014 4:39:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82345	0.0842
5	3.63	t-Butanol	149828	1.0261
6	4.44	n-Propanol	187173	1.0000

14-04-100 44



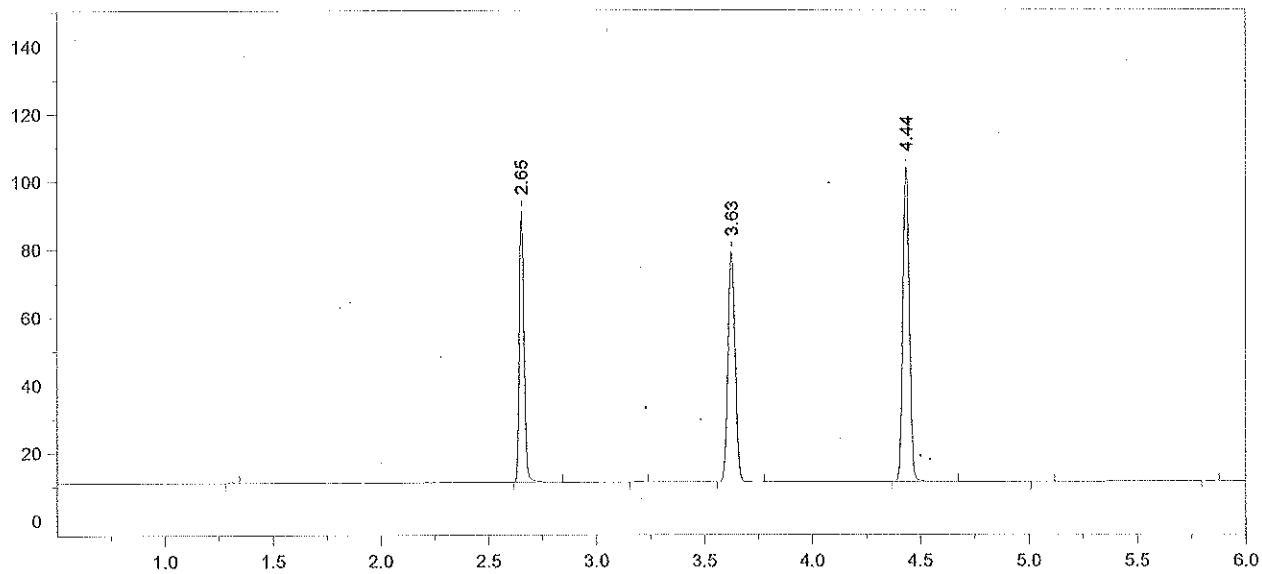
Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 4:53:46 PM
Bound File Name = SIM05282014.0011.RAW
Sample Name = CCS
Date Taken = 5/28/2014 4:53:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	90257	0.0842 *
5	3.63	t-Butanol	154510	0.9659
6	4.44	n-Propanol	205054	1.0000

Avg #10 + #11 = 0.084
RZM 5/29/14

14-04-100 45 RZM

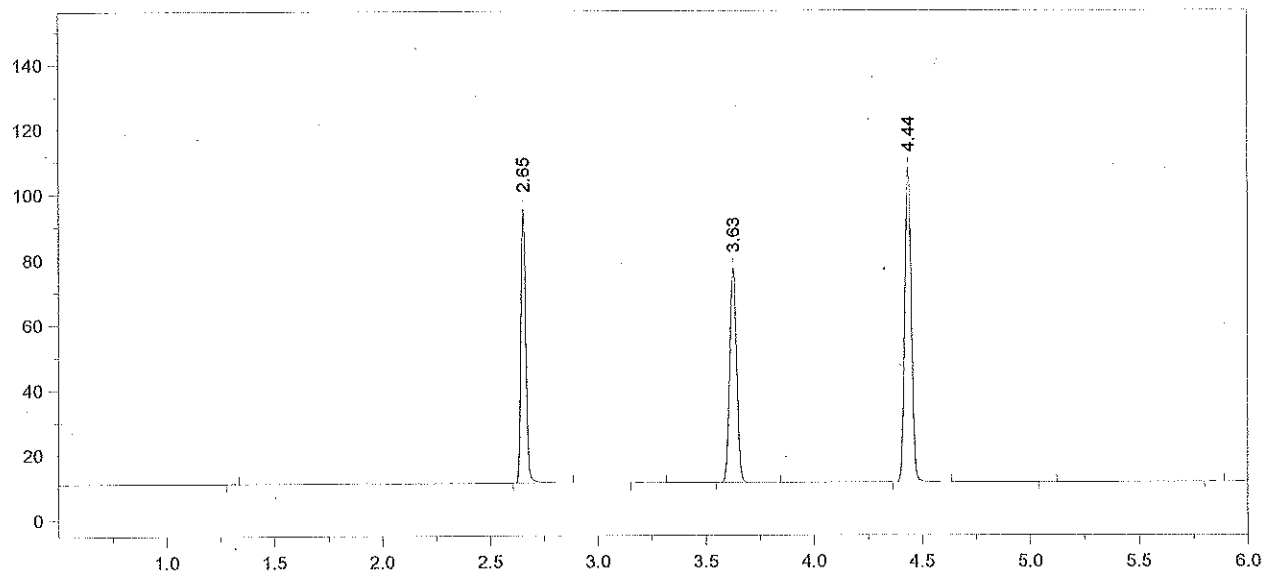


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 5:11:08 PM
Bound File Name = SIM05282014.0012.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 5:10:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123337	0.1197	0.0977
4	3.63	t-Butanol	156795	1.0197	0.8323
5	4.44	n-Propanol	197114	1.0000	0.8162

14-04-100 46 RLM

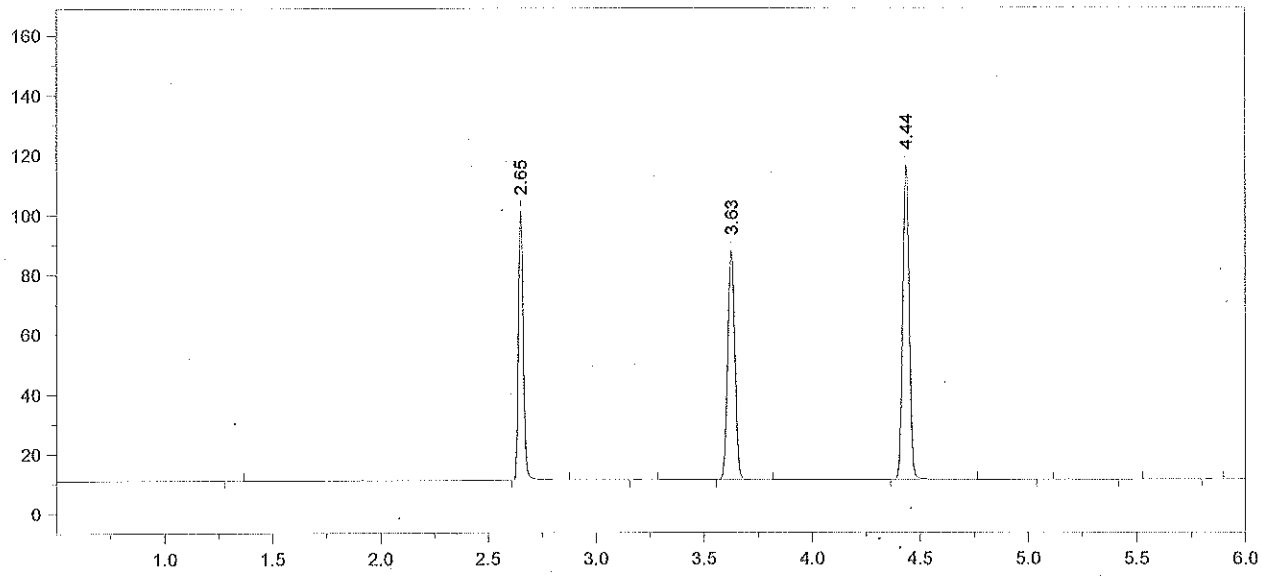


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 5:24:53 PM
Bound File Name = SIM05282014.0013.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 5:24:44 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131456	0.1228	0.1002
4	3.63	t-Butanol	153103	0.9583	0.7822
5	4.44	n-Propanol	204795	1.0000	0.8162

14-04-100 47 RLM

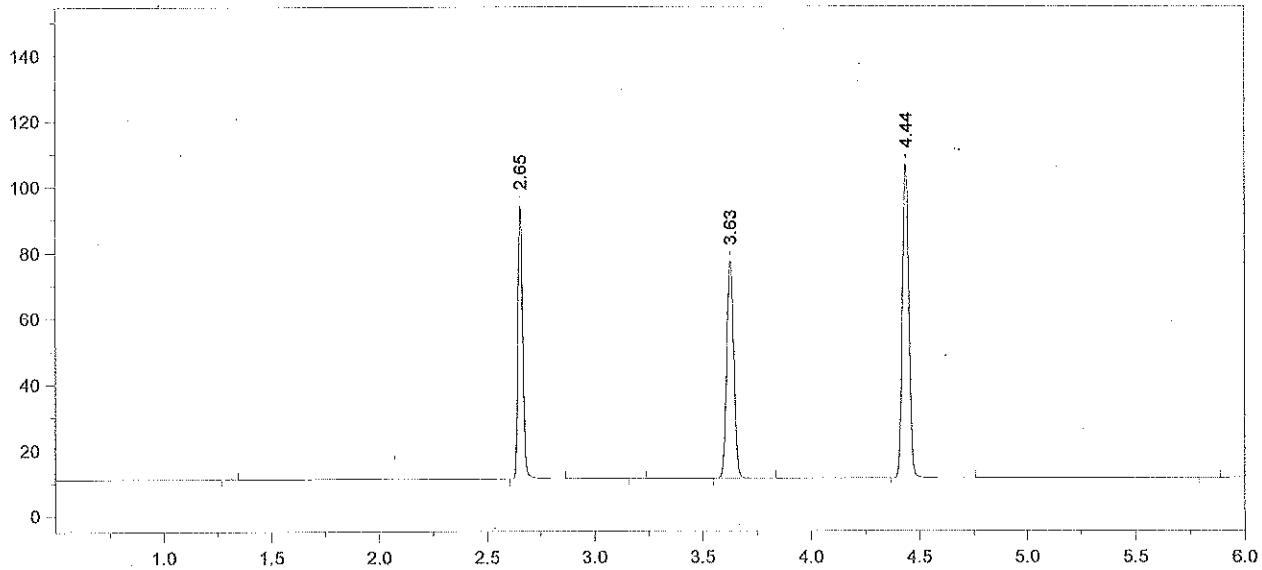


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014 Today's Time = 5:40:50 PM
Bound File Name = SIM05282014.0014.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 5:40:43 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	138673	0.1189	0.0970
4	3.63	t-Butanol	177020	1.0166	0.8297
5	4.44	n-Propanol	223223	1.0000	0.8162

14-04-100 48 RLM



Format File Name = simsolnVFL.met.FMT

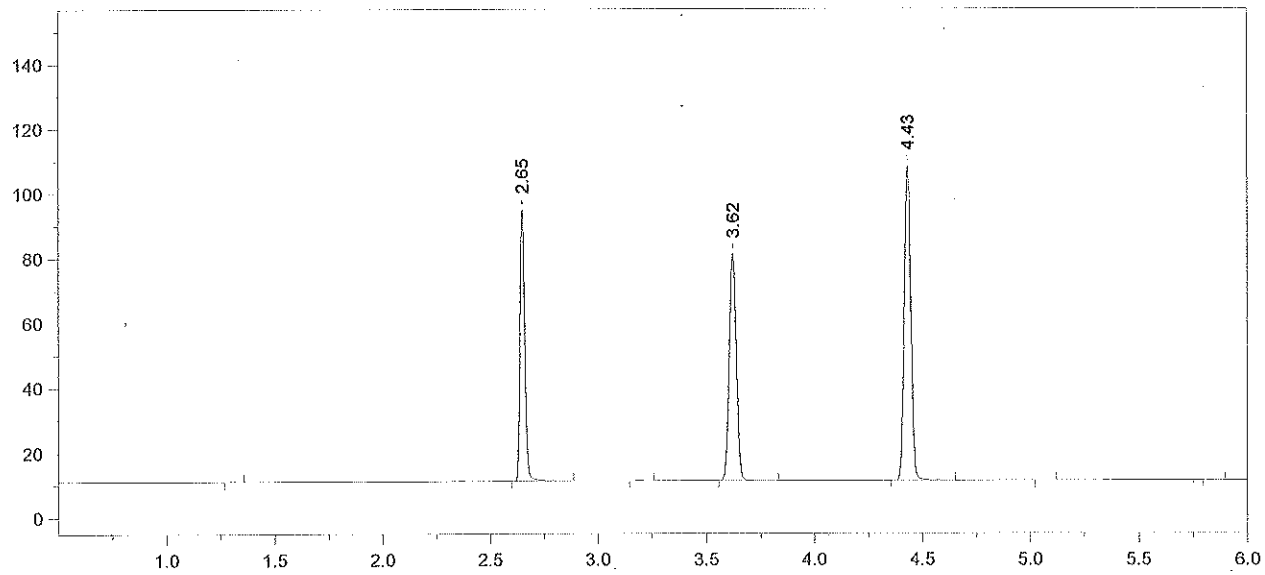
Today's Date = 5/28/2014
Today's Time = 5:55:43 PM
Bound File Name = SIM05282014.0015.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 5:55:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129001	0.1211	0.0989
4	3.63	t-Butanol	153671	0.9670	0.7892
5	4.44	n-Propanol	203721	1.0000	0.8162

04
14-07-100

49

RLM

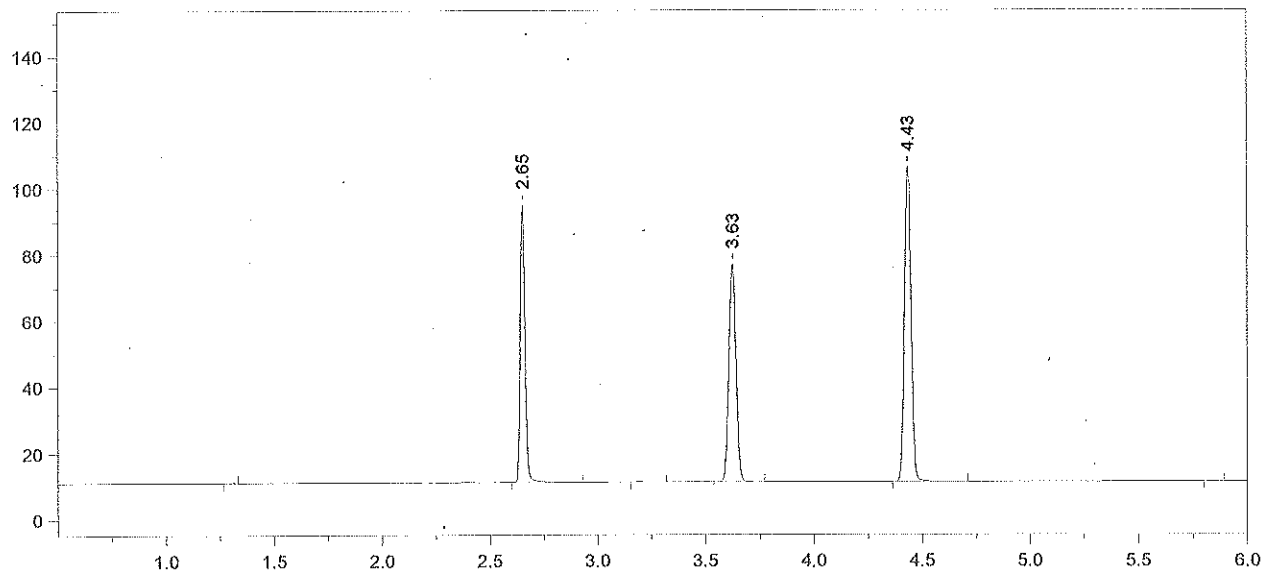


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 6:12:19 PM
Bound File Name = SIM05282014.0016.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 6:12:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129742	0.1205	0.0983
4	3.62	t-Butanol	162723	1.0126	0.8265
5	4.43	n-Propanol	205993	1.0000	0.8162

14-04-100 50 RLM

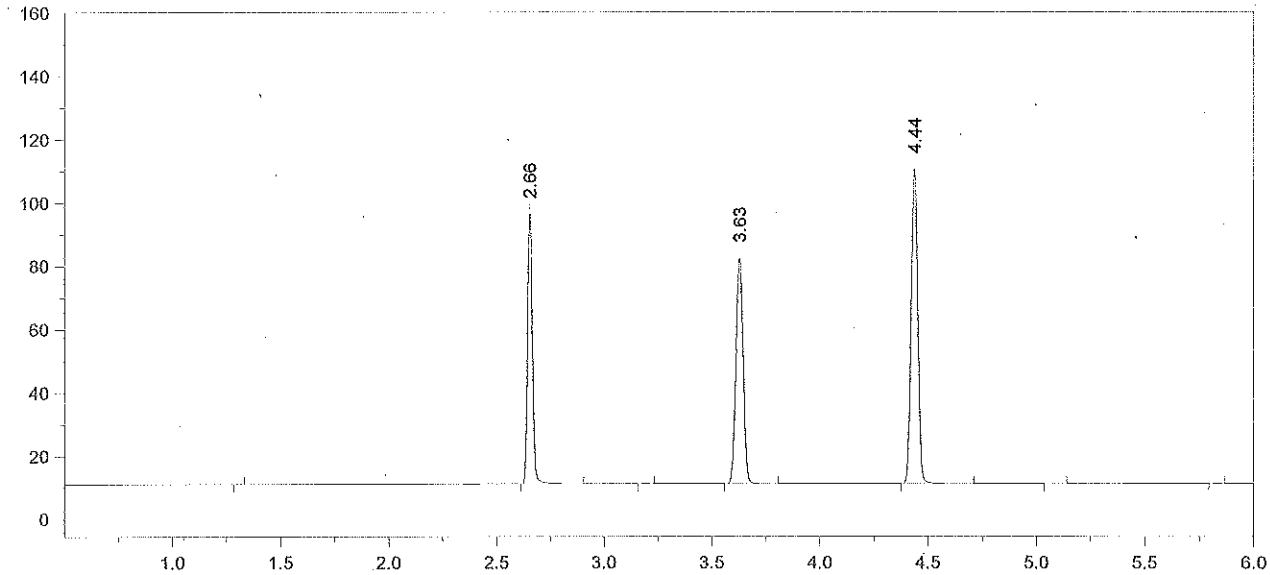


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 6:26:14 PM
Bound File Name = SIM05282014.0017.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 6:26:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130168	0.1228	0.1002
4	3.63	t-Butanol	152390	0.9630	0.7860
5	4.43	n-Propanol	202852	1.0000	0.8162

14-04-100 51 RLM

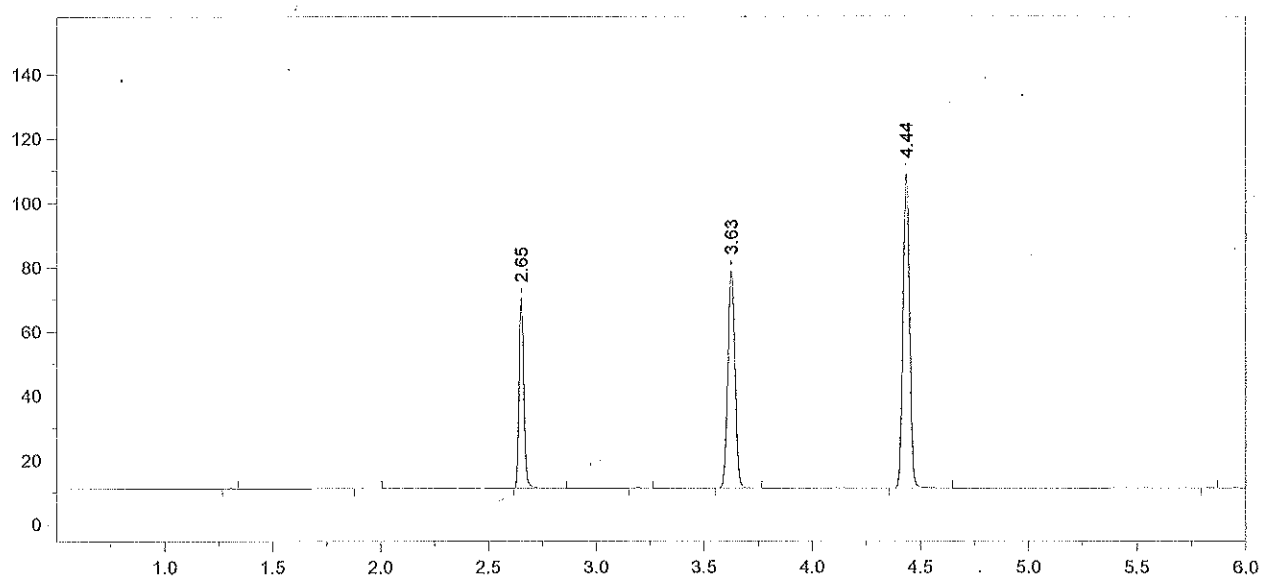


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 6:43:49 PM
Bound File Name = SIM05282014.0018.RAW
Sample Name = 14-04-100 RLM
Date Taken = 5/28/2014 6:43:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	133008	0.1205	0.0984
4	3.63	t-Butanol	165424	1.0043	0.8197
5	4.44	n-Propanol	211139	1.0000	0.8162

14-04-100 52 RLM

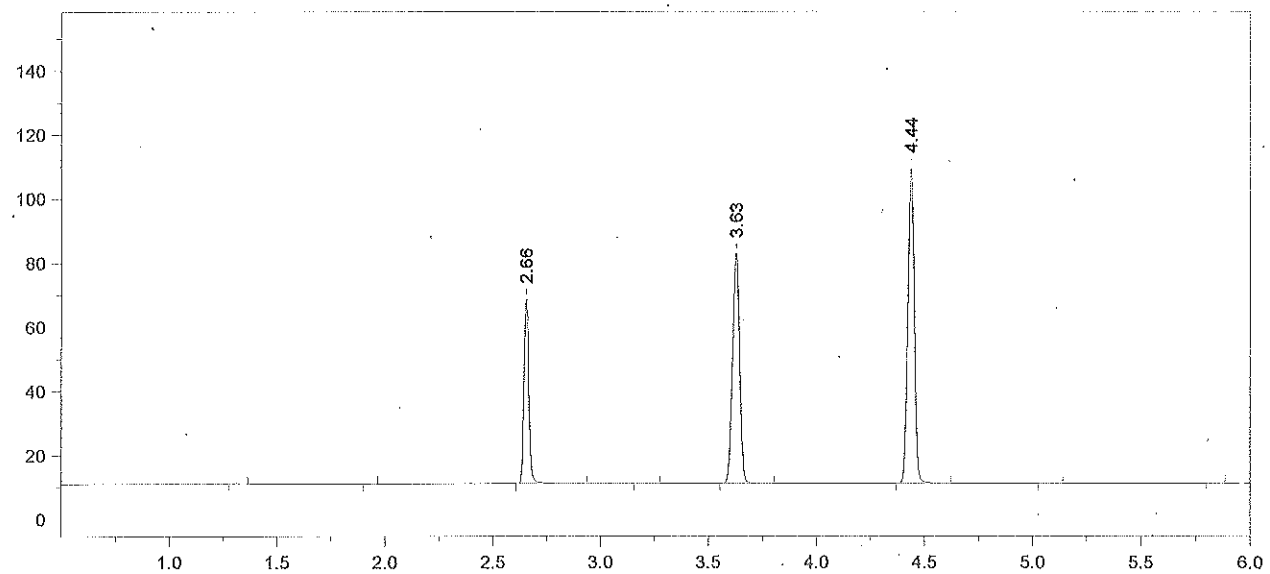


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 6:57:29 PM
Bound File Name = SIM05282014.0019.RAW
Sample Name = CCS
Date Taken = 5/28/2014 6:57:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	91891	0.0846
5	3.63	t-Butanol	156794	0.9675
6	4.44	n-Propanol	207740	1.0000

14-04-100 53



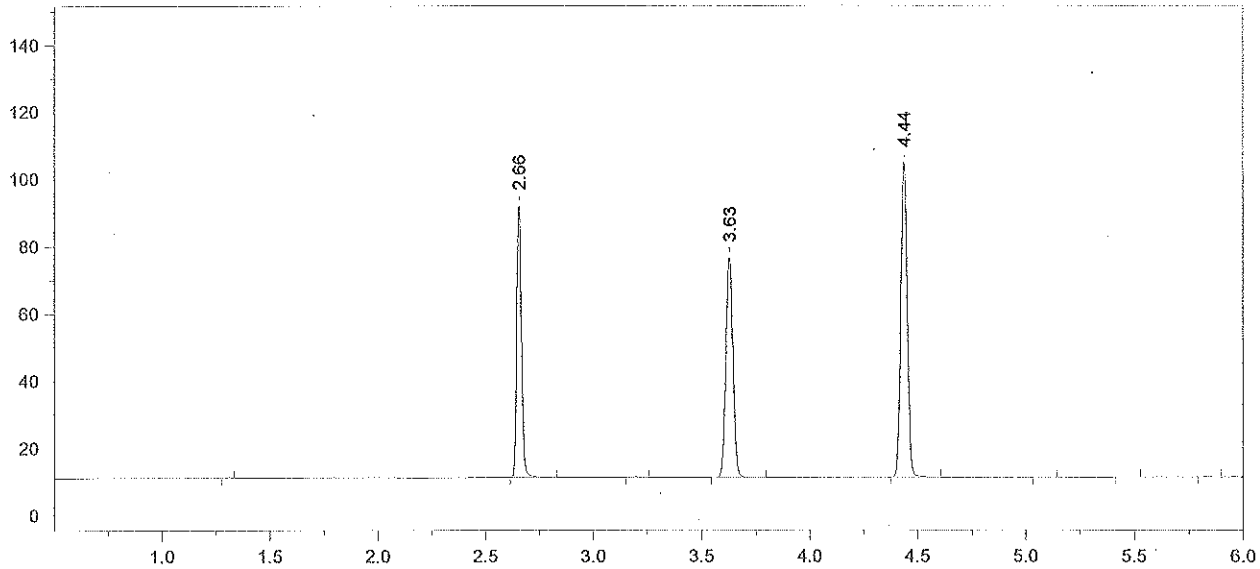
Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 7:13:34 PM
Bound File Name = SIM05282014.0020.RAW
Sample Name = CCS
Date Taken = 5/28/2014 7:13:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	90384	0.0831
5	3.63	t-Butanol	165948	1.0222
6	4.44	n-Propanol	208097	1.0000

Avg #19 + #20 = 0.084
RZM 5/29/14

14-04-100 54 RZM

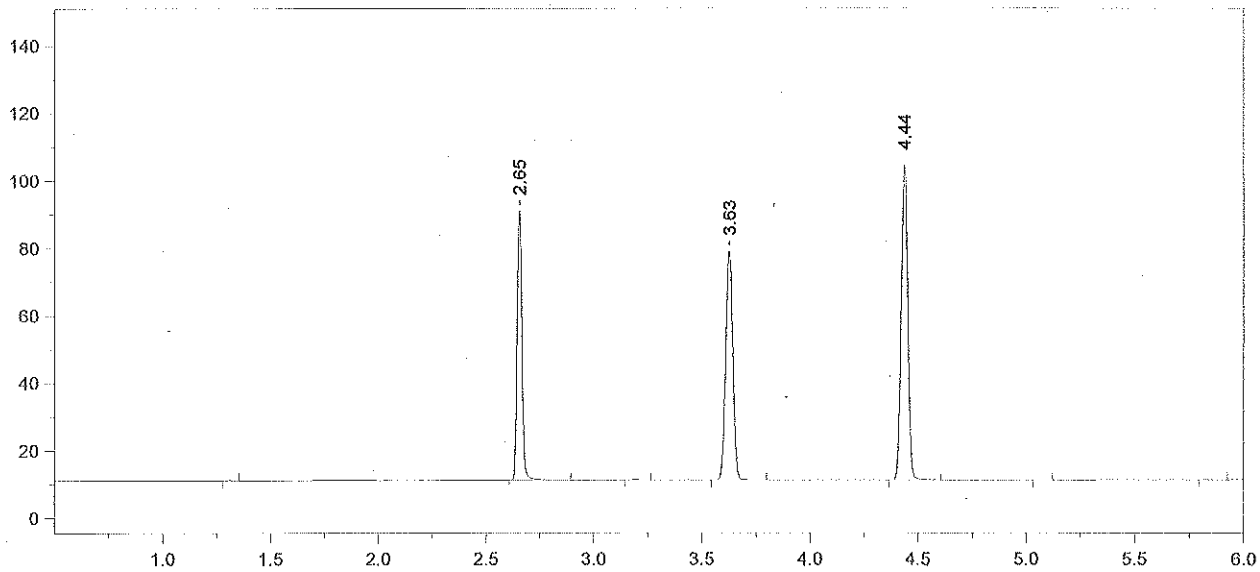


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 7:29:09 PM
Bound File Name = SIM05282014.0021.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 7:28:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125124	0.1206	0.0984
4	3.63	t-Butanol	151350	0.9774	0.7978
5	4.44	n-Propanol	198499	1.0000	0.8162

14-04-100 55

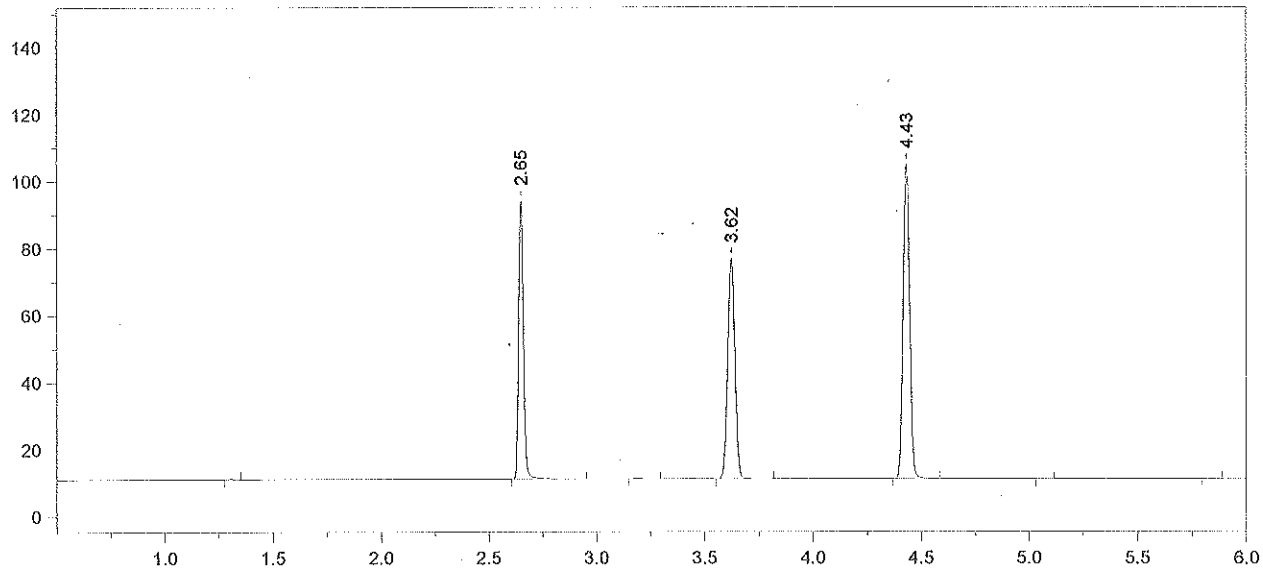


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 7:45:06 PM
Bound File Name = SIM05282014.0022.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 7:44:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123837	0.1202	0.0981
4	3.63	t-Butanol	157562	1.0250	0.8366
5	4.44	n-Propanol	197057	1.0000	0.8162

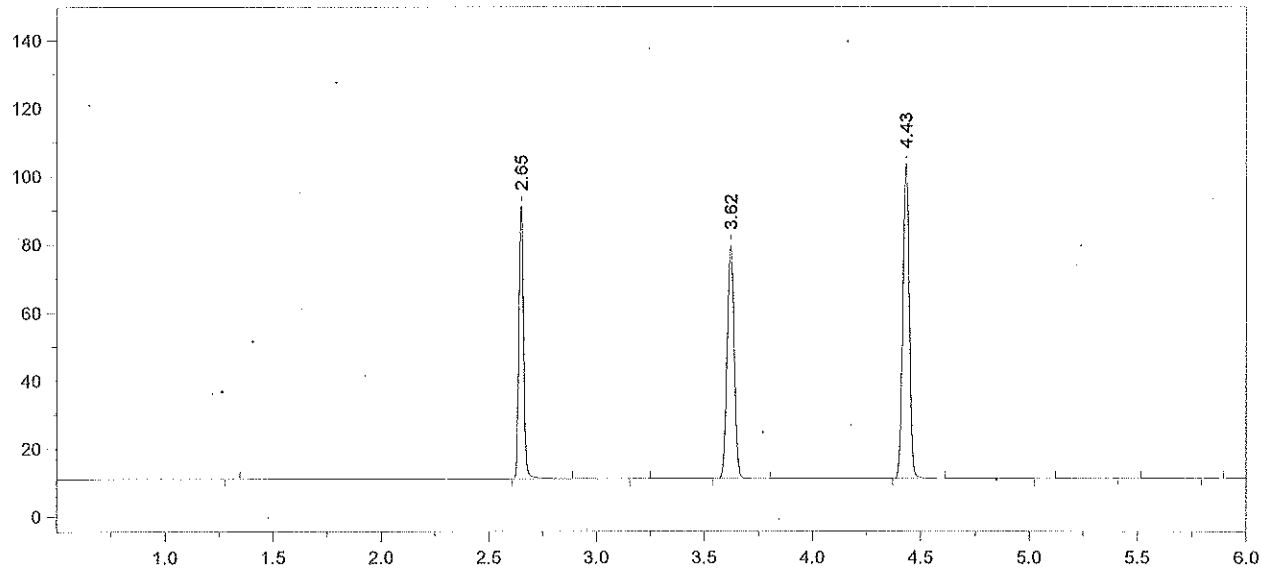
14-04-100 56 RZM



Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 7:58:47 PM
Bound File Name = SIM05282014.0023.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 7:58:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128625	0.1235	0.1008
4	3.62	t-Butanol	152116	0.9788	0.7989
5	4.43	n-Propanol	199215	1.0000	0.8162

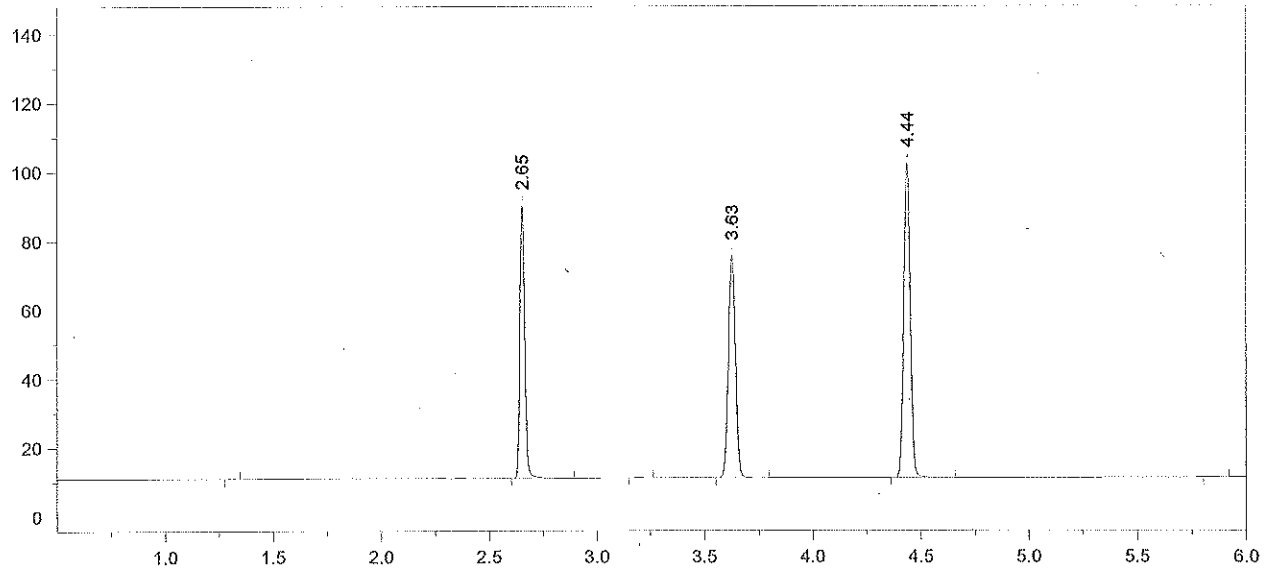


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014 Today's Time = 8:16:29 PM
Bound File Name = SIM05282014.0024.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 8:16:23 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124077	0.1202	0.0981
4	3.62	t-Butanol	157987	1.0251	0.8367
5	4.43	n-Propanol	197562	1.0000	0.8162

14-04-100 58 RZM

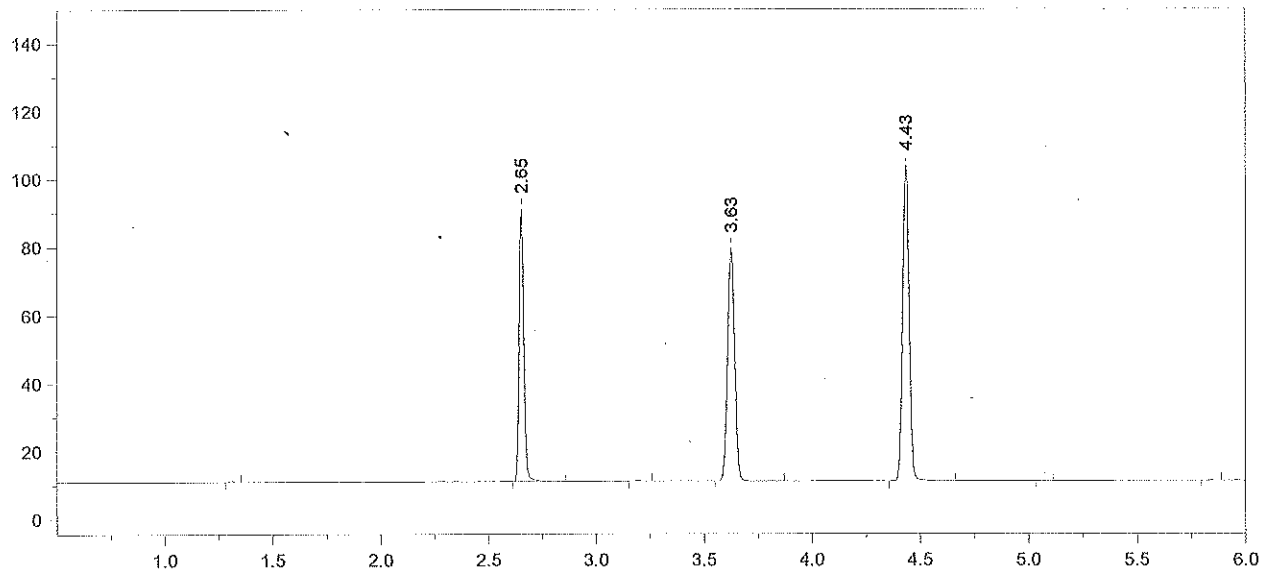


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 8:30:22 PM
Bound File Name = SIM05282014.0025.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 8:30:13 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123518	0.1222	0.0997
4	3.63	t-Butanol	149678	0.9920	0.8097
5	4.44	n-Propanol	193415	1.0000	0.8162

14-04-100 59 RLM

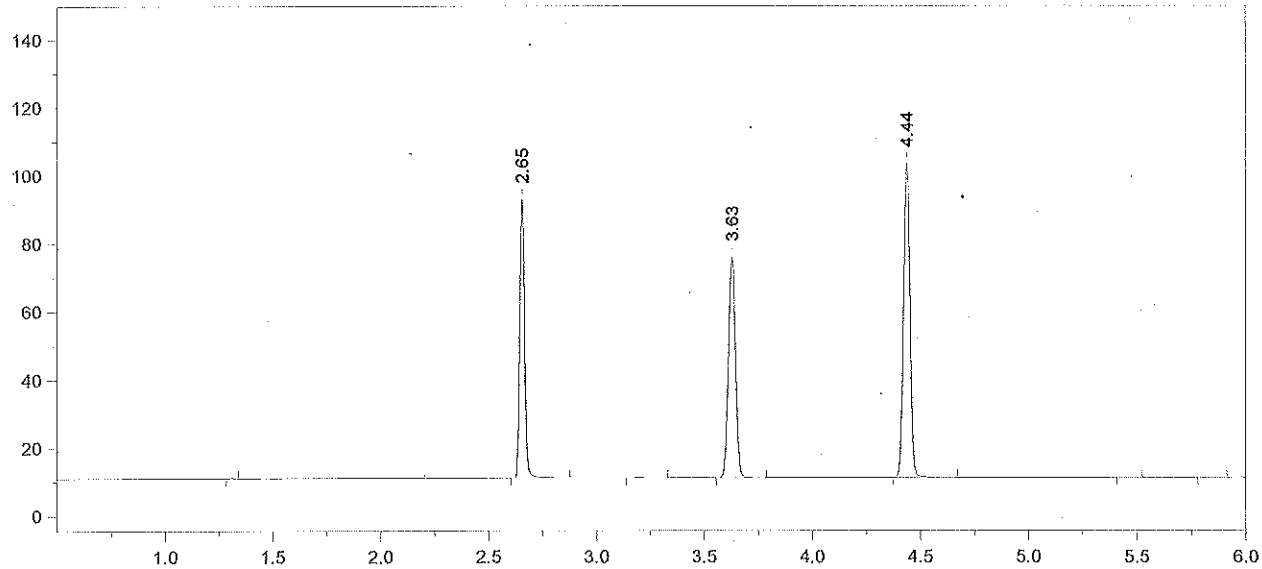


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014
Today's Time = 8:47:55 PM
Bound File Name = SIM05282014.0026.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 8:47:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123318	0.1194	0.0975
4	3.63	t-Butanol	158563	1.0287	0.8397
5	4.43	n-Propanol	197580	1.0000	0.8162

14-04-100 60 RSM

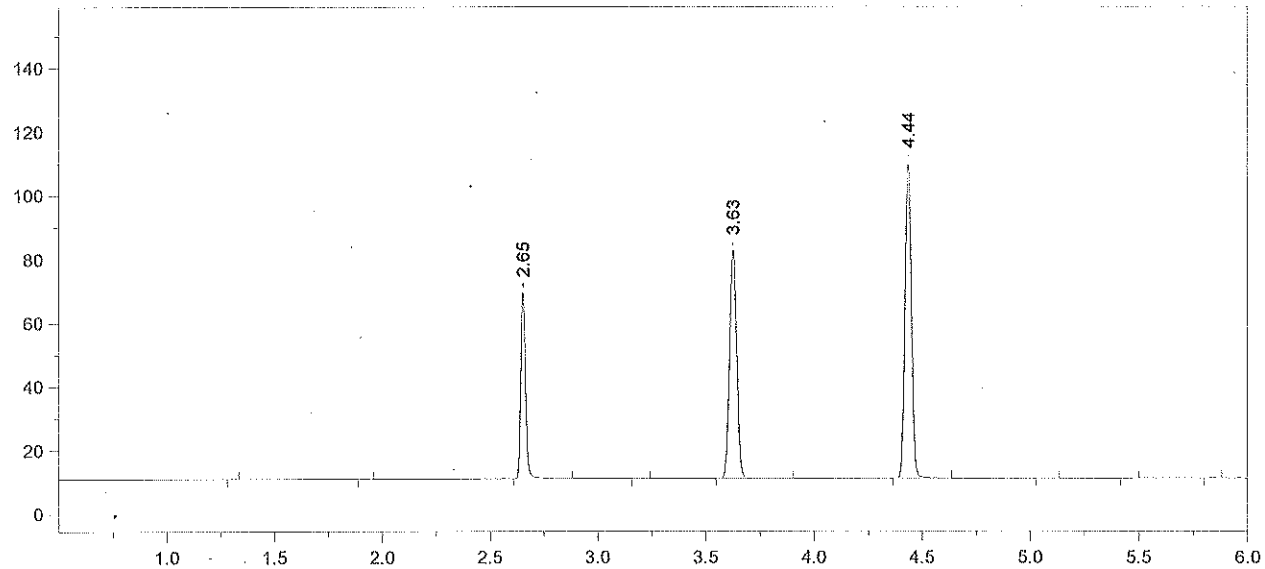


Format File Name = simsolnVFL.met.FMT

Today's Date = 5/28/2014 Today's Time = 9:01:44 PM
Bound File Name = SIM05282014.0027.RAW
Sample Name = 14-04-100 ALB
Date Taken = 5/28/2014 9:01:35 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05282014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127415	0.1244	0.1015
4	3.63	t-Butanol	150642	0.9853	0.8042
5	4.44	n-Propanol	195989	1.0000	0.8162

14-04-100 61

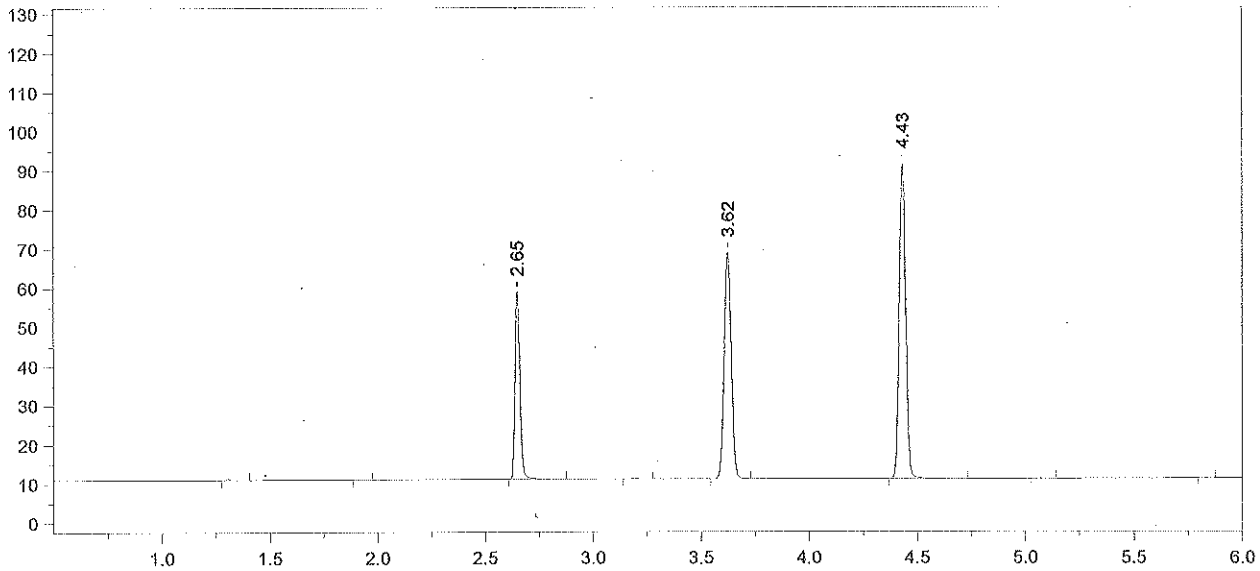


Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 9:19:19 PM
Bound File Name = SIM05282014.0028.RAW
Sample Name = CCS
Date Taken = 5/28/2014 9:19:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	91492	0.0837 *
5	3.63	t-Butanol	166243	1.0194
6	4.44	n-Propanol	209050	1.0000

14-04-100 62 RM



Format File Name = AlcoholVFL.FMT

Today's Date = 5/28/2014
Today's Time = 9:32:39 PM
Bound File Name = SIM05282014.0029.RAW
Sample Name = CCS
Date Taken = 5/28/2014 9:32:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05282014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	74919	0.0841*
5	3.62	t-Butanol	133960	1.0072
6	4.43	n-Propanol	170493	1.0000

Avg #28 + #29 = 0.084
KM 5/29/14

14-04-100 63 KM