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 Certification Solution

On 7/10/2012, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster Certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-82-400 and an expiration date of 7/10/2013.

On 7/10/2012 and 7/11/2012, the solution was analyzed against calibration SimCal07102012 and SimCal07112012. 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..399 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Certification solution.

Dated at Waterbury, Vermont on Friday, July 13, 2012.

Amanda Bolduc

0.40 Certification Solution 2L
Lot # 12-82-400
Prepared 7/10/2012 by ALB/KW
Exp 7/10/2013

ALB CAL SimCal071012
ALB/KW Vials
Analyzed on 7/10/2012

0.3926	alb
0.4028	
0.3997	
0.4099	
0.3991	
0.4097	
0.4013	
0.4077	kw
0.3991	
0.4066	
0.3988	
0.4034	
0.3960	
0.4043	

Ave. = 0.4022
Std Dev. = 0.0051
Range = .3926 - .4099

ALB CAL SimCal071112
ALB/KW Vials
Analyzed on 7/11/12

0.3888	alb
0.4027	
0.3967	
0.4056	
0.3994	
0.4069	
0.3955	
0.3992	kw
0.3882	
0.3964	
0.3900	
0.3994	
0.3876	
0.3993	

Ave. = 0.3968
Std Dev. = 0.0063
Range = 0.3876 - 0.4069

Total Values from Both Runs

Average	Mean
0.3926	0.3876
0.4028	0.3882
0.3997	0.3888
0.4099	0.3900
0.3991	0.3926
0.4097	0.3955
0.4013	0.3960
0.4077	0.3964
0.3991	0.3967
0.4066	0.3988
0.3988	0.3991
0.4034	
0.3960	0.3992
0.4043	0.3993
0.3888	0.3994
0.4027	
0.3967	0.3997
0.4056	0.4013
0.3994	0.4027
0.4069	0.4028
0.3955	0.4034
0.3992	0.4043
0.3882	0.4056
0.3964	0.4066
0.3900	0.4069
0.3994	0.4077
0.3876	0.4097
0.3993	0.4099

Ave. =	0.3995
Std Dev. =	0.0062
Range =	0.3876 - 0.4099
Mean =	0.3995
Mean Std Dev. =	0.0065
RPD (Mean to Ave.)=	0.00%

7/13/2012

Headspace Alcohol Analysis Standards Coversheet

Analyst: KAW Date: 7/11/2012

AB calibration
KW wrote up data 7/11/12

Calibration Standards:

Lot ID: ES-05102012 Preparation Date: 05/10/2012 Expiration Date: 08/10/2012

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.023	0.087	0.211	0.414	
Acceptance Range (± 10%)	0.007	0.025	0.096	0.232	0.455	
	0.005	0.021	0.078	0.190	0.372	

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	~~FN111711-01~~	~~0.100~~	~~0.110~~	~~0.090~~ KAW
		FN021111-03	0.080	0.072	0.088 7/11/2012

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	✓
2	Compound Retention Times:				
		Acetaldehyde	1.92	N/A	✓
		Methanol	2.03		
		Ethanol	2.67		
		Acetone	3.07		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45	KAW 7/11/2012	
3	Standard A		~~0.0045~~	(Y) N	0.0055 ✓
4	Standard B		0.0225	(Y) N	✓
5	Standard C		0.086	(Y) N	✓
6	Standard D		0.208	(Y) N	✓
7	Standard E		0.416	(Y) N	✓
8	Aqueous QC		0.079	(Y) N	✓ AVG = 0.079 ✓
9	Aqueous QC		0.079	(Y) N	✓

TLCA 7/13/2012

File Name: C:\Methods\SimCal 07102012.cal
Version: 8

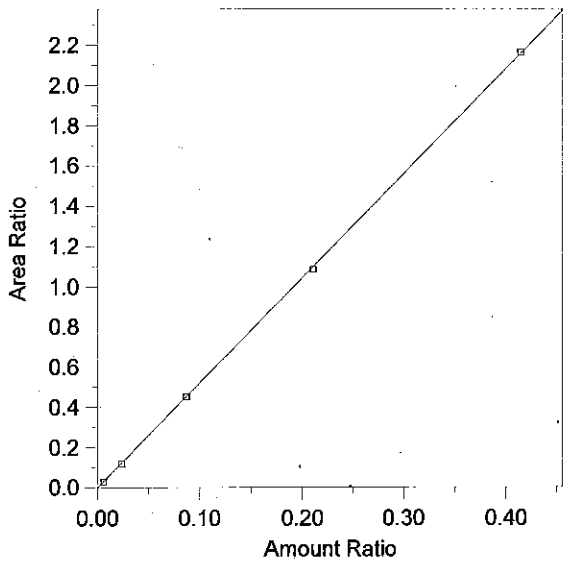
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1000
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:	2.669 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

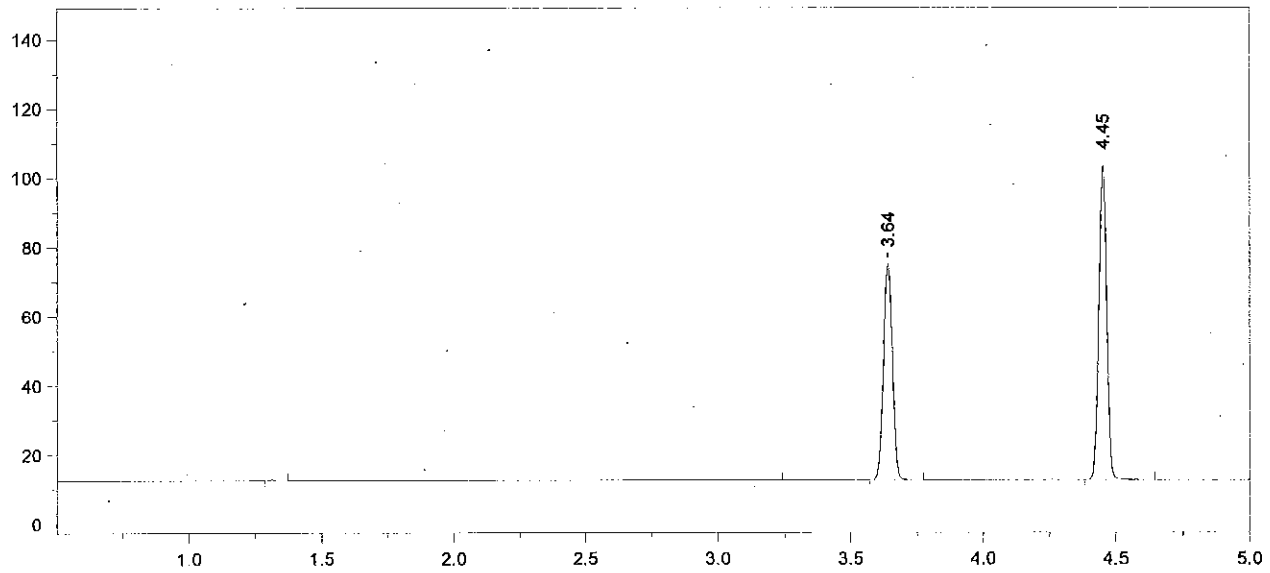
Single peak quantification by area

Y = 5.202225 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999182
Average error:	2.664%
Average CF:	5.070673
RSD:	3.252%

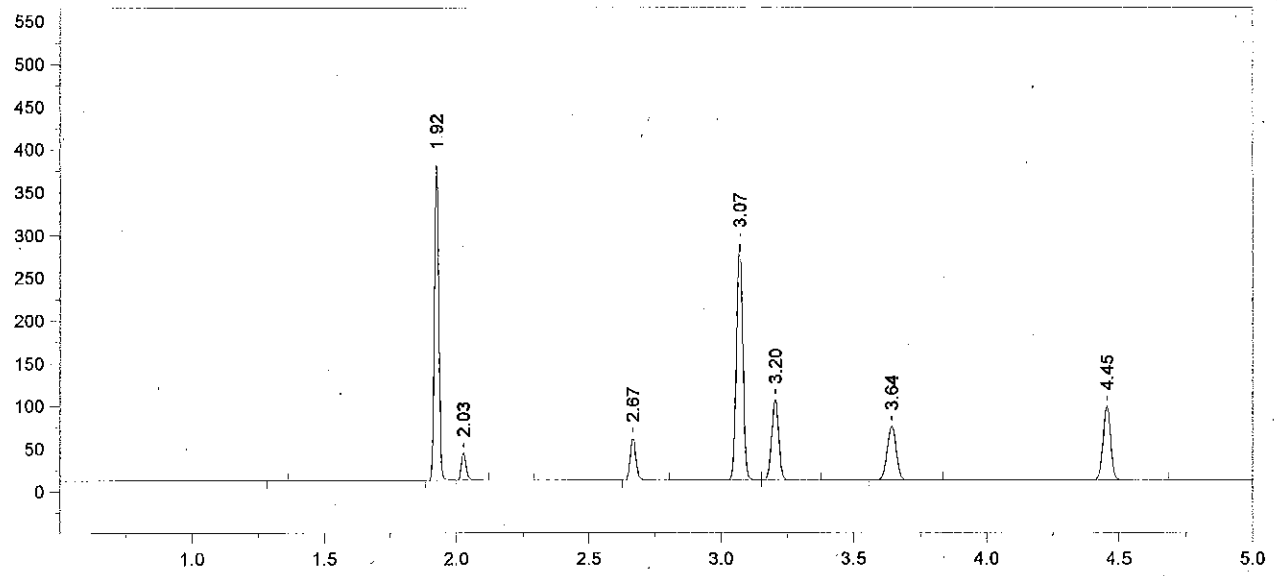
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.081)	(85146)	--	--	0.081	85146	Manual	5/11/2012 8:03:03 AM
2	0.0059	5313.044	900515.9	-7.320	0.0059	2.844629E-02	C:\Alcohol Data\SIM07102012\SIM07102012.0003.BND	7/11/2012 9:22:35 AM
3	0.0235	22009.46	936572.8	-4.113	0.0235	0.1172245	C:\Alcohol Data\SIM07102012\SIM07102012.0004.BND	7/11/2012 9:22:43 AM
4	0.0869	81310.21	935675.6	-0.362	0.0869	0.4504374	C:\Alcohol Data\SIM07102012\SIM07102012.0005.BND	7/11/2012 9:22:49 AM
5	0.2107	203151.5	964174.2	-1.186	0.2107	1.083107	C:\Alcohol Data\SIM07102012\SIM07102012.0006.BND	7/11/2012 9:22:55 AM
6	0.4144	406980.7	982096.3	0.337	0.4144	2.163073	C:\Alcohol Data\SIM07102012\SIM07102012.0007.BND	7/11/2012 9:23:01 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:26:27 AM
Bound File Name = SIM07102012.0001.RAW
Sample Name = Blank
Date Taken = 7/10/2012 2:37:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

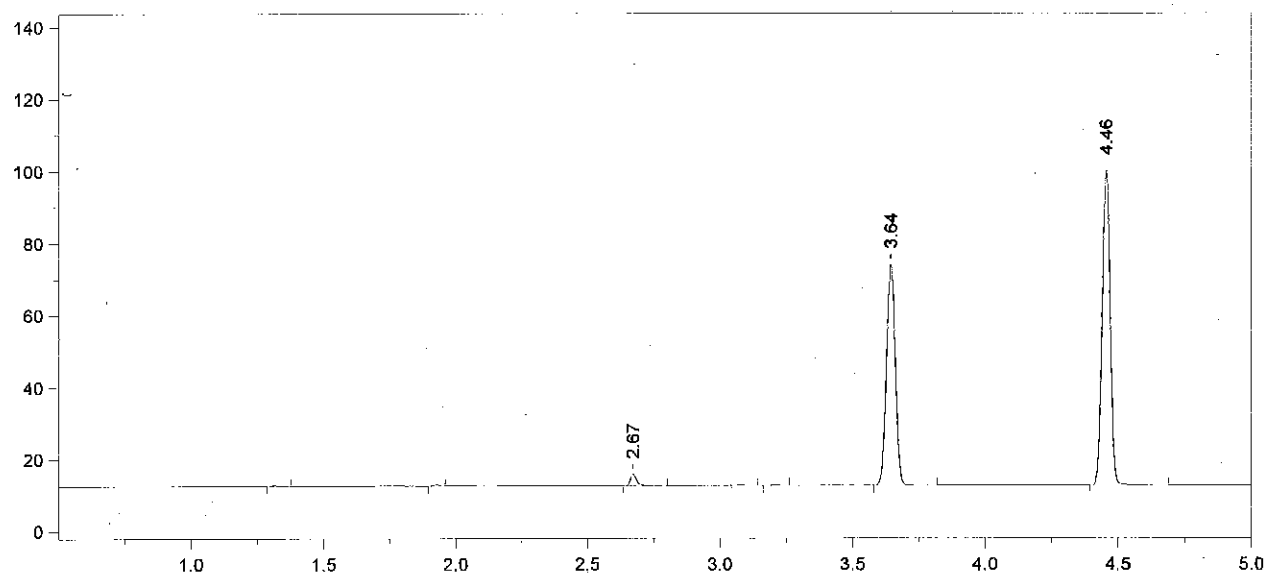
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	3.64	t-Butanol	144062	0.9639	0.7867
4	4.45	n-Propanol	192599	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:26:36 AM
Bound File Name = SIM07102012.0002.RAW
Sample Name = TMX
Date Taken = 7/10/2012 2:54:41 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

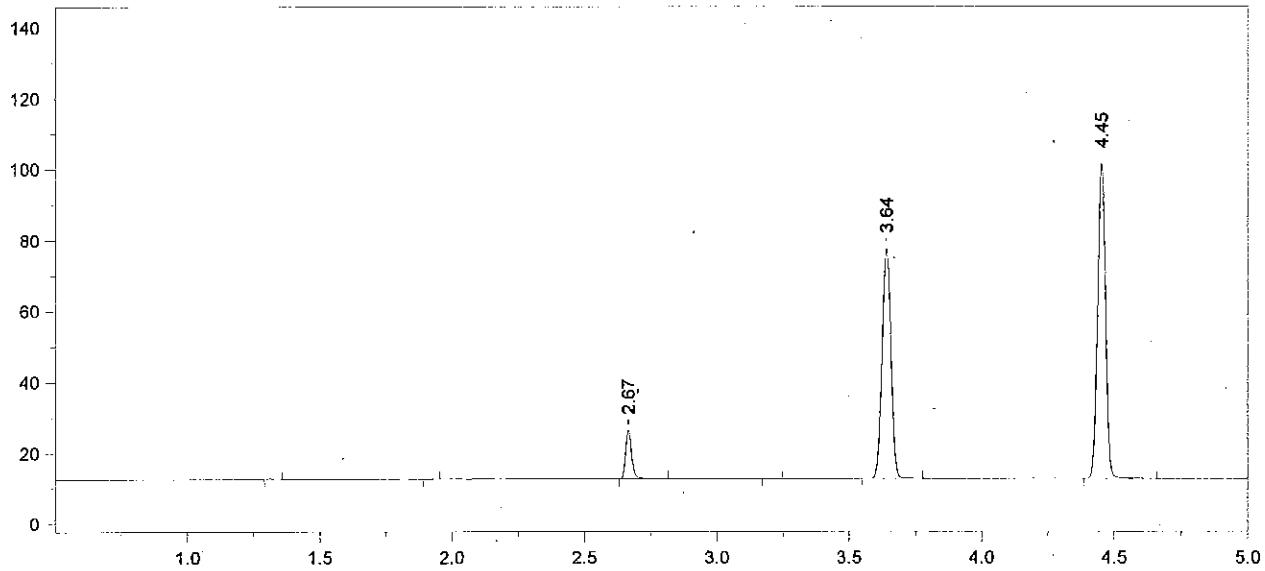
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	423591	0.0900	0.0735
3	2.03	Methanol	39180	0.0920	0.0751
4	2.67	Ethanol	75638	0.0793	0.0647
5	3.07	Acetone	467176	0.0920	0.0751
6	3.20	Isopropanol	175480	0.1230	0.1004
7	3.64	t-Butanol	145293	1.0208	0.8332
8	4.45	n-Propanol	183407	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:26:47 AM
Bound File Name = SIM07102012.0003.RAW
Sample Name = STD A
Date Taken = 7/10/2012 3:08:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

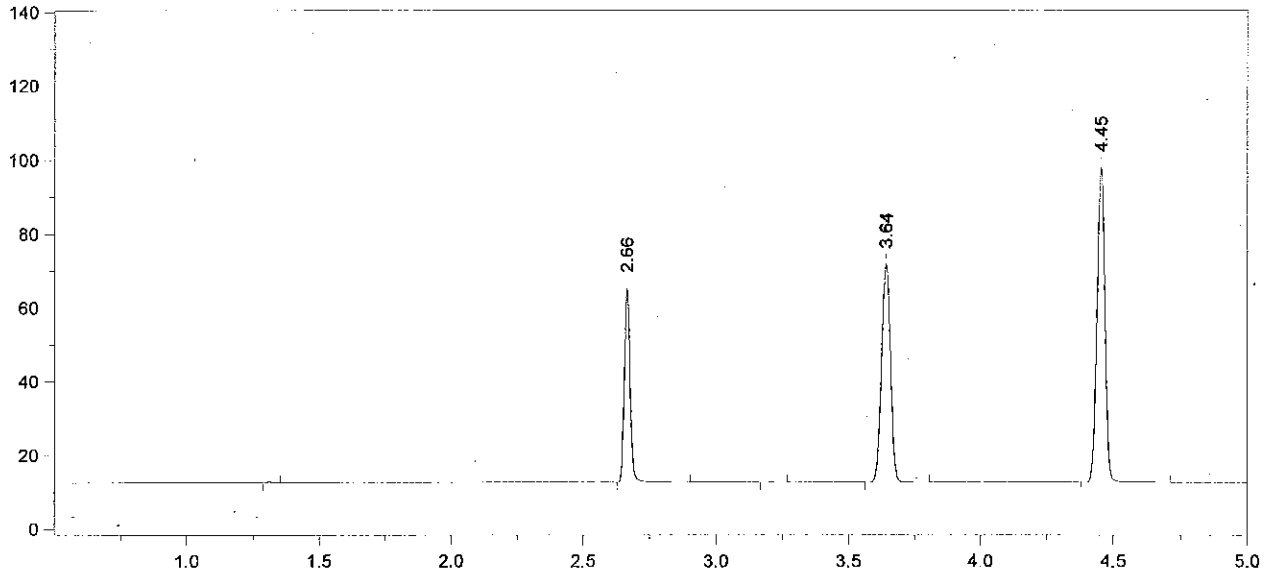
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05313	0.0055	0.0045
6	3.64	t-Butanol	142252	0.9814	0.8011
7	4.46	n-Propanol	186775	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:26:57 AM
Bound File Name = SIM07102012.0004.RAW
Sample Name = STD B
Date Taken = 7/10/2012 3:26:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

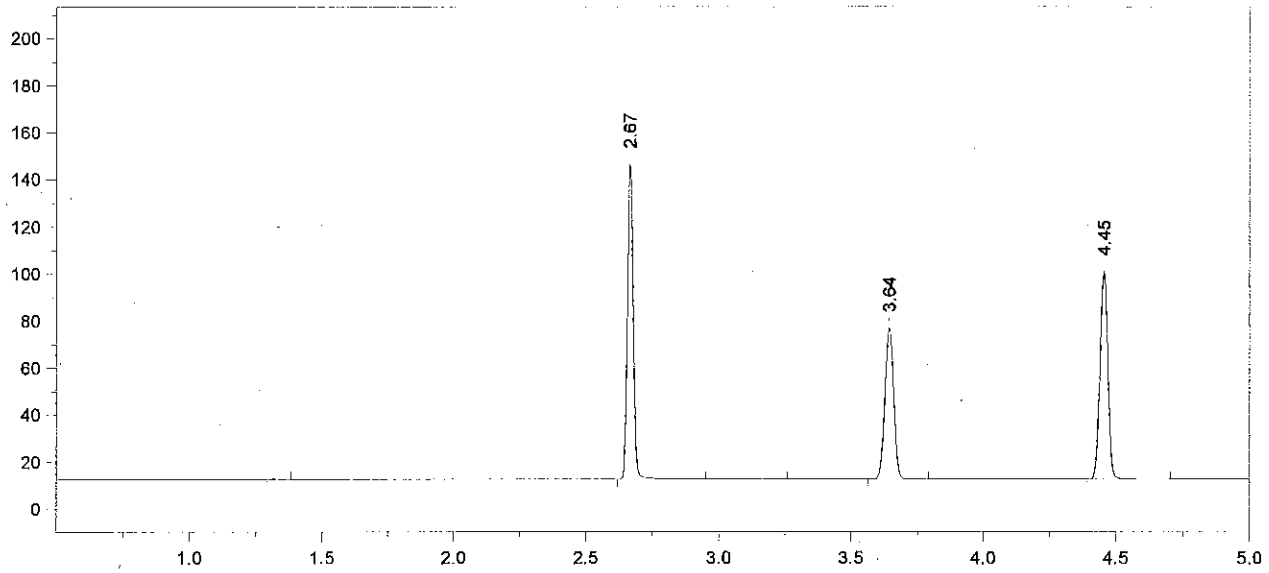
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	22009	0.0225	0.0184
5	3.64	t-Butanol	149855	1.0285	0.8395
6	4.45	n-Propanol	187755	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:27:05 AM
Bound File Name = SIM07102012.0005.RAW
Sample Name = STD C
Date Taken = 7/10/2012 3:39:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

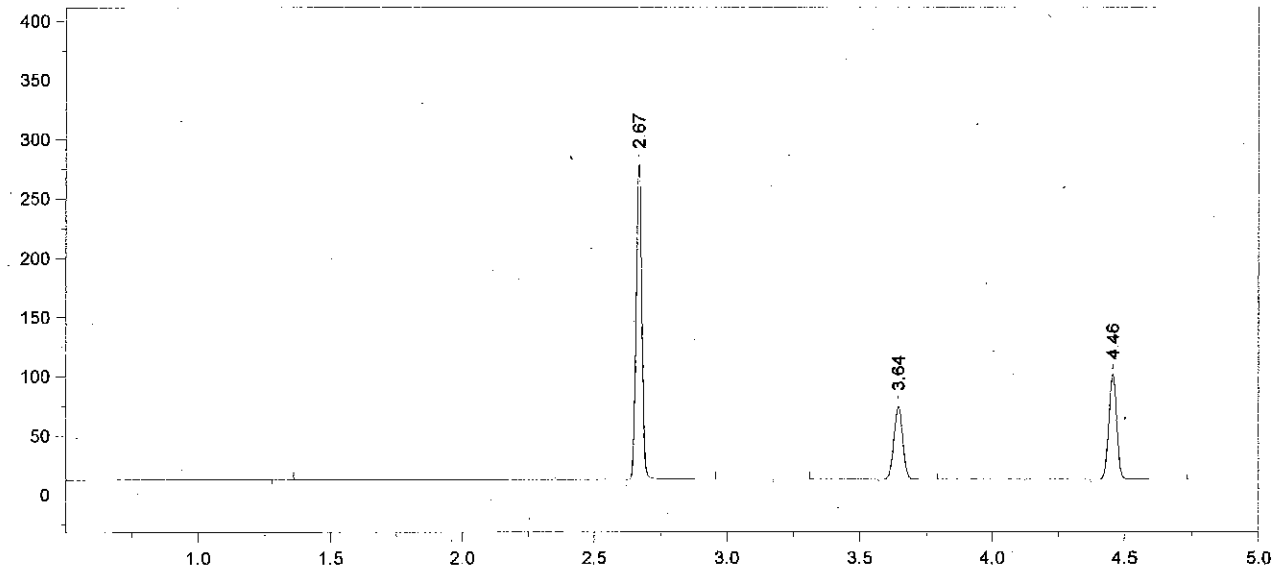
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81310	0.0866	0.0707
4	3.64	t-Butanol	137358	0.9806	0.8003
5	4.45	n-Propanol	180514	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:13 AM
Bound File Name = SIM07102012.0006.RAW
Sample Name = STD D
Date Taken = 7/10/2012 3:57:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

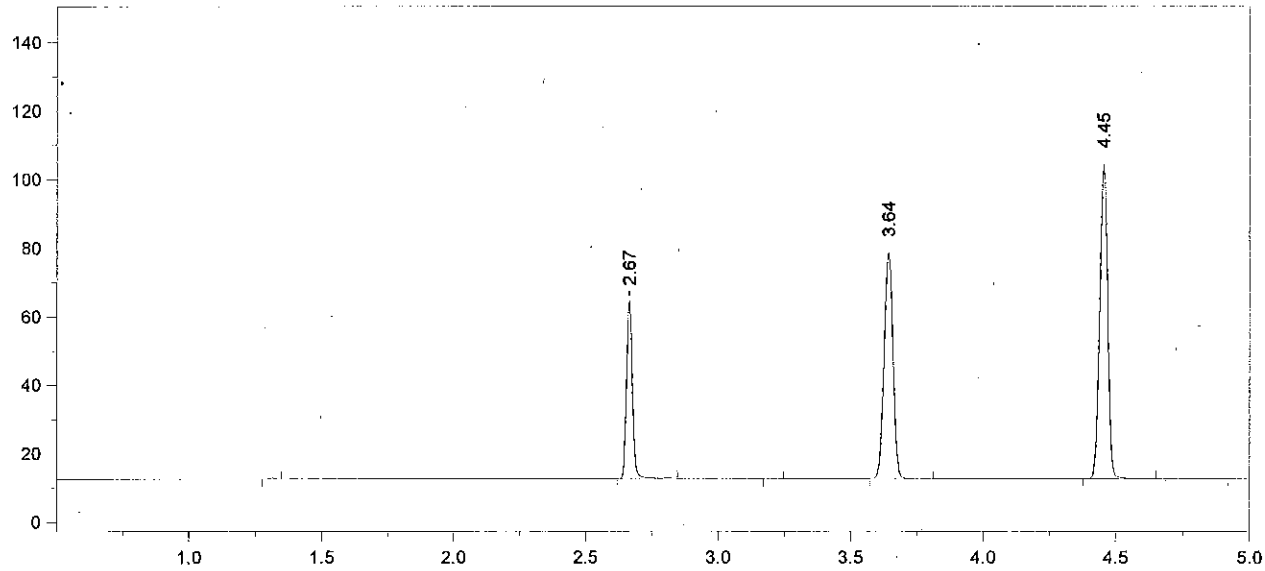
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	203152	0.2082	0.1699
4	3.64	t-Butanol	148245	1.0185	0.8313
5	4.45	n-Propanol	187564	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:23 AM
Bound File Name = SIM07102012.0007.RAW
Sample Name = STD E
Date Taken = 7/10/2012 4:10:45 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

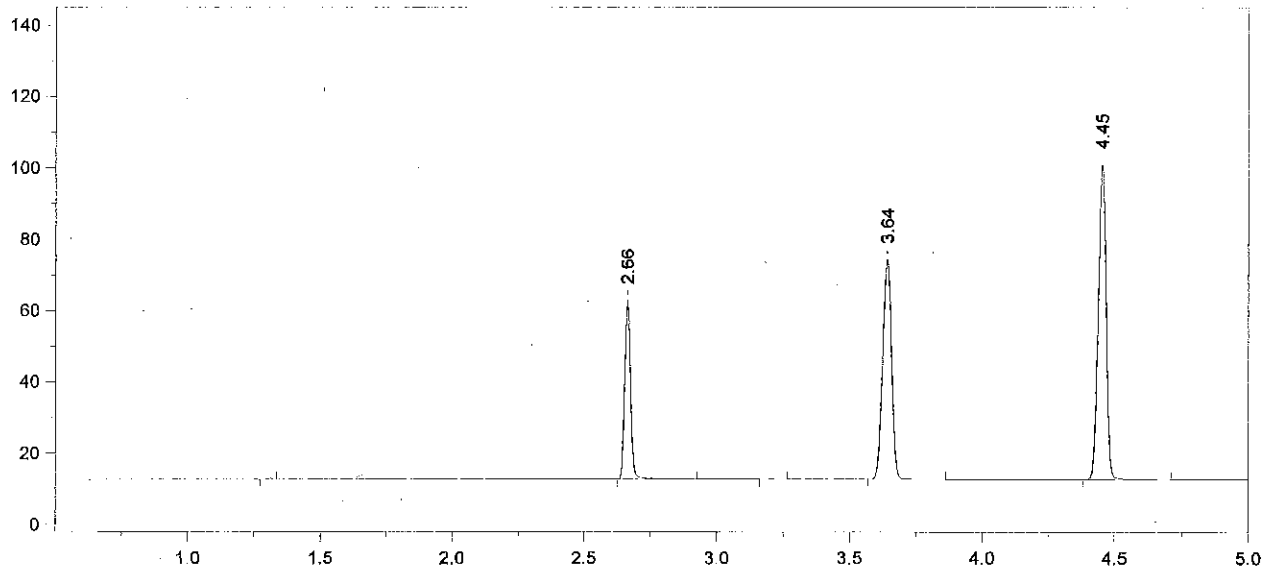
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	406981	0.4158	0.3394
4	3.64	t-Butanol	141652	0.9702	0.7919
5	4.46	n-Propanol	188149	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:32 AM
Bound File Name = SIM07102012.0008.RAW
Sample Name = AQ QC
Date Taken = 7/10/2012 4:28:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

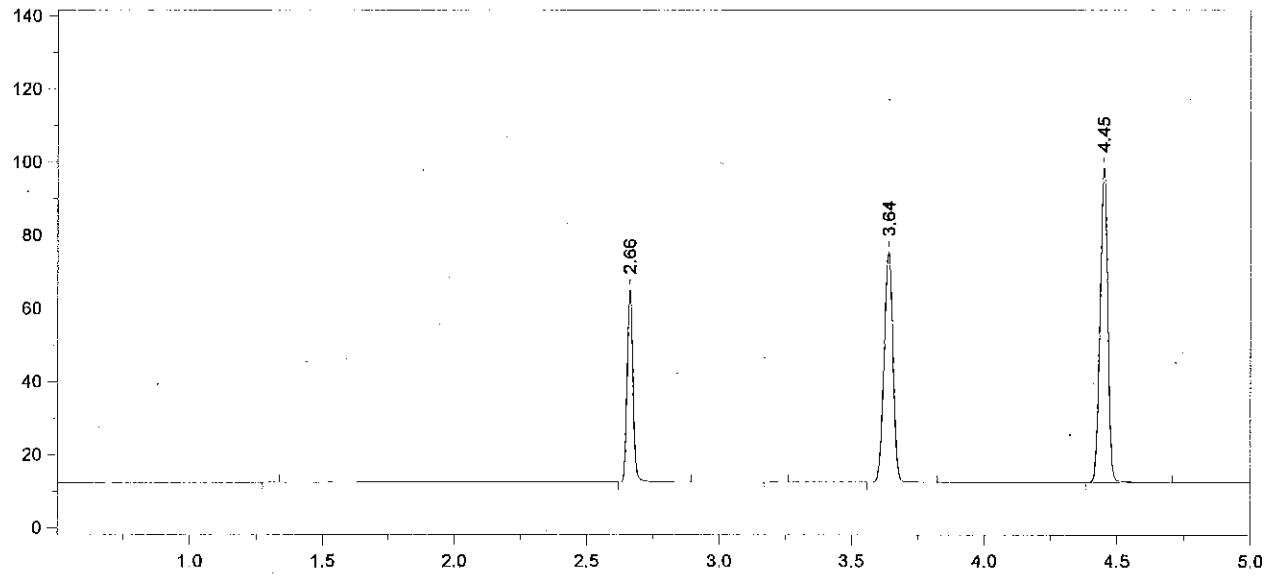
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	80009	0.0792	0.0646
4	3.64	t-Butanol	152690	1.0130	0.8268
5	4.45	n-Propanol	194231	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:42 AM
Bound File Name = SIM07102012.0009.RAW
Sample Name = AQ QC
Date Taken = 7/10/2012 4:42:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

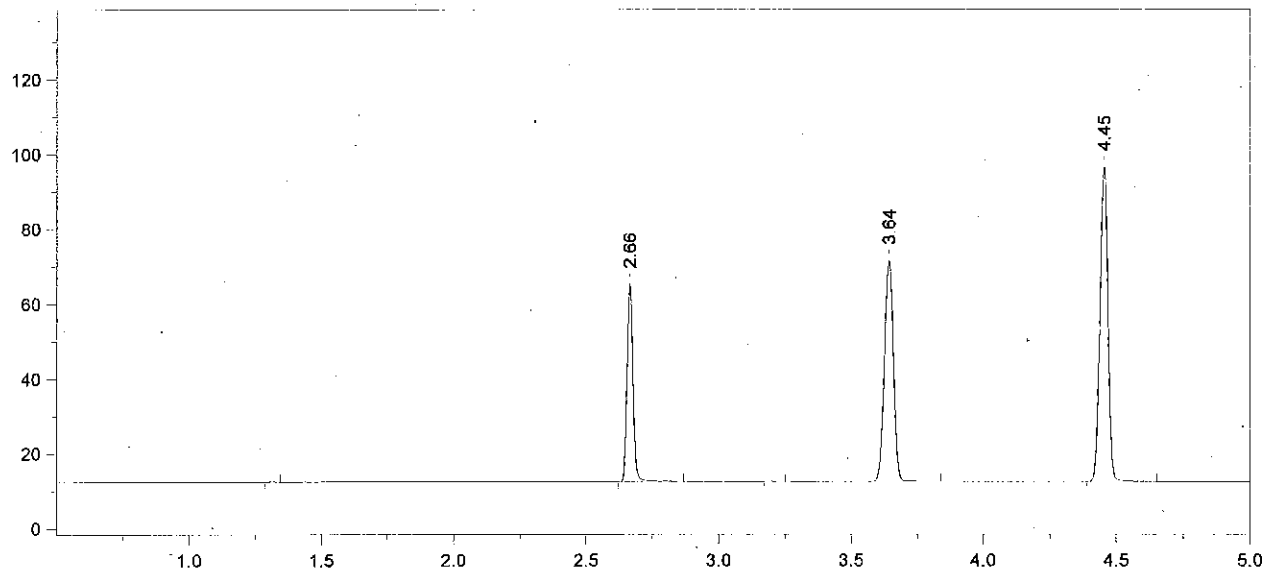
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	77430	0.0791	0.0646
4	3.64	t-Butanol	142892	0.9791	0.7991
5	4.45	n-Propanol	188063	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:32:33 AM
Bound File Name = SIM07102012.0046.RAW
Sample Name = CCS
Date Taken = 7/11/2012 2:20:08 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

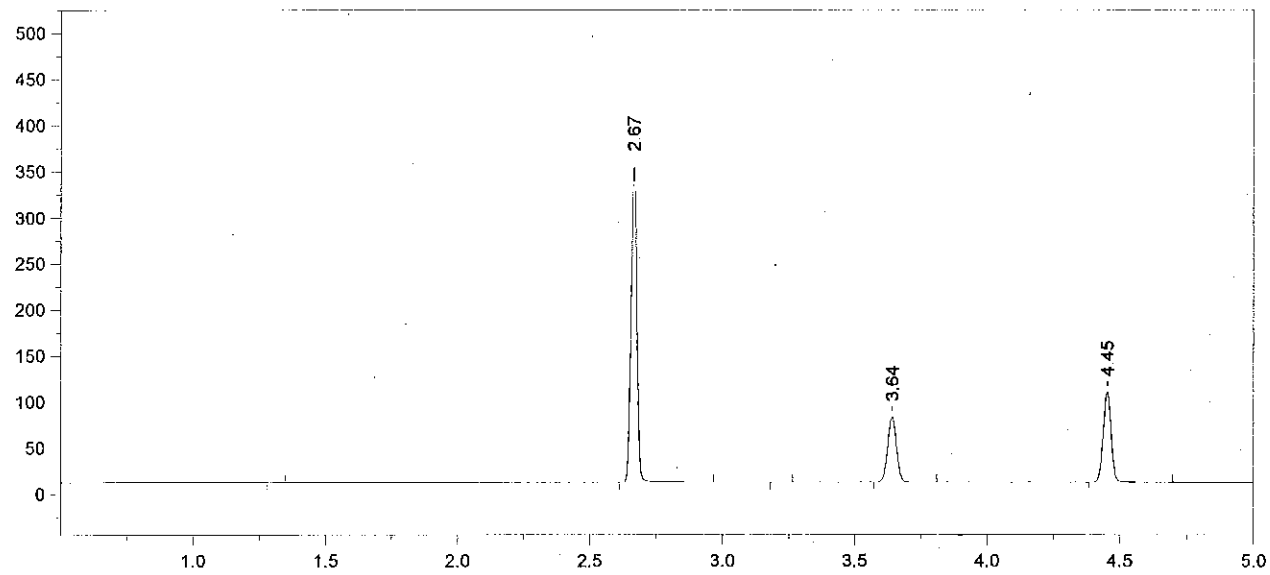
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81762	0.0864	0.0705
4	3.64	t-Butanol	145424	1.0299	0.8406
5	4.45	n-Propanol	181957	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:32:41 AM
Bound File Name = SIM07102012.0047.RAW
Sample Name = CCS
Date Taken = 7/11/2012 2:33:52 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

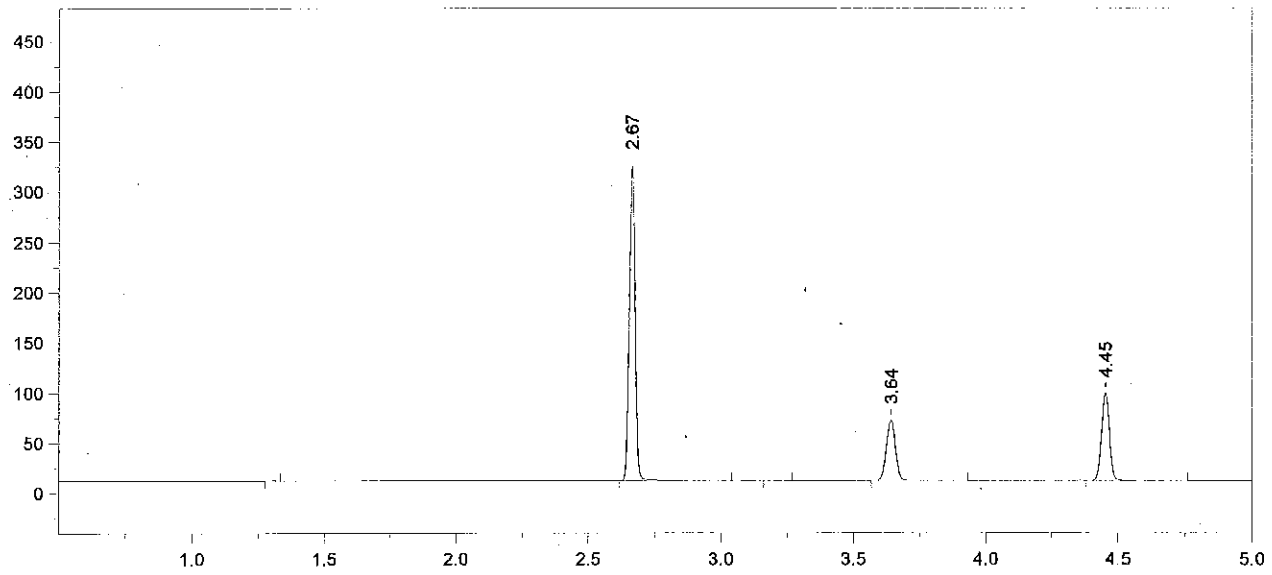
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81887	0.0881	0.0719
4	3.64	t-Butanol	136850	0.9865	0.8052
5	4.45	n-Propanol	178753	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:32:50 AM
Bound File Name = SIM07102012.0048.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 2:49:50 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

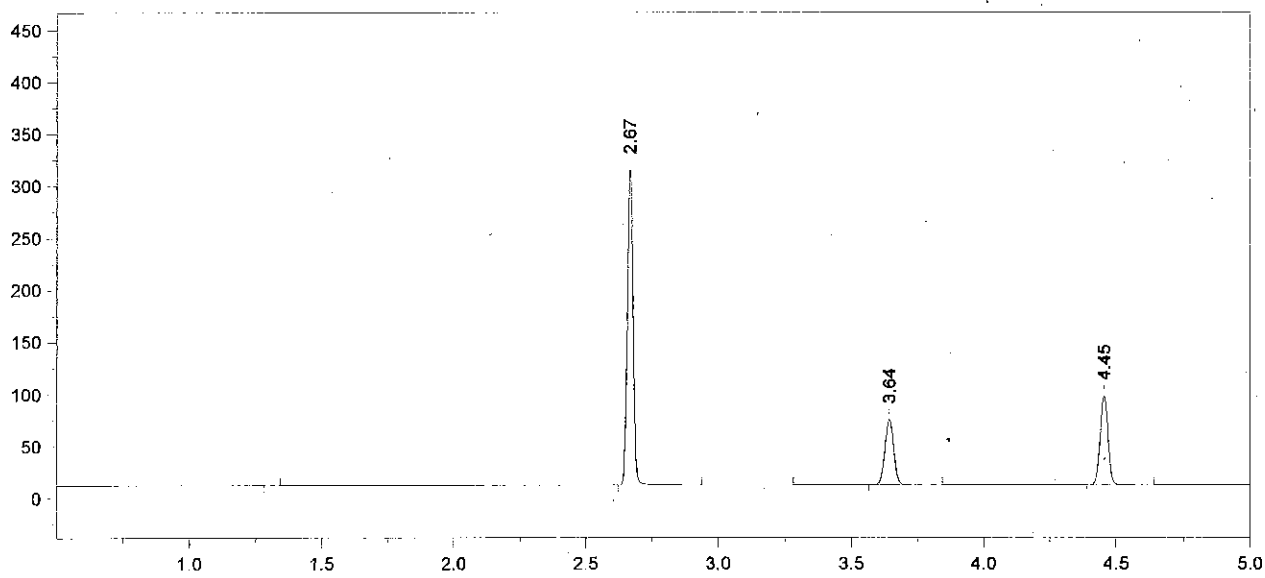
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	518324	0.4810	0.3926
4	3.64	t-Butanol	162993	1.0141	0.8277
5	4.45	n-Propanol	207127	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:32:58 AM
Bound File Name = SIM07102012.0049.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 3:05:21 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

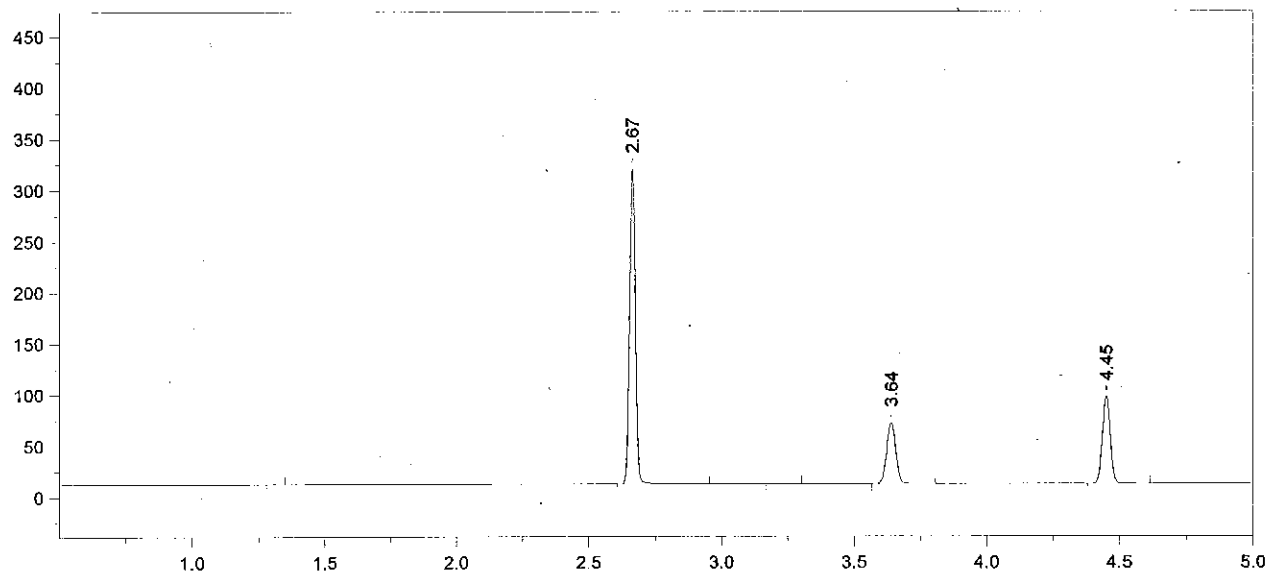
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	476118	0.4935	0.4028
4	3.64	t-Butanol	139593	0.9699	0.7916
5	4.45	n-Propanol	185470	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:33:06 AM
Bound File Name = SIM07102012.0050.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 3:21:24 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

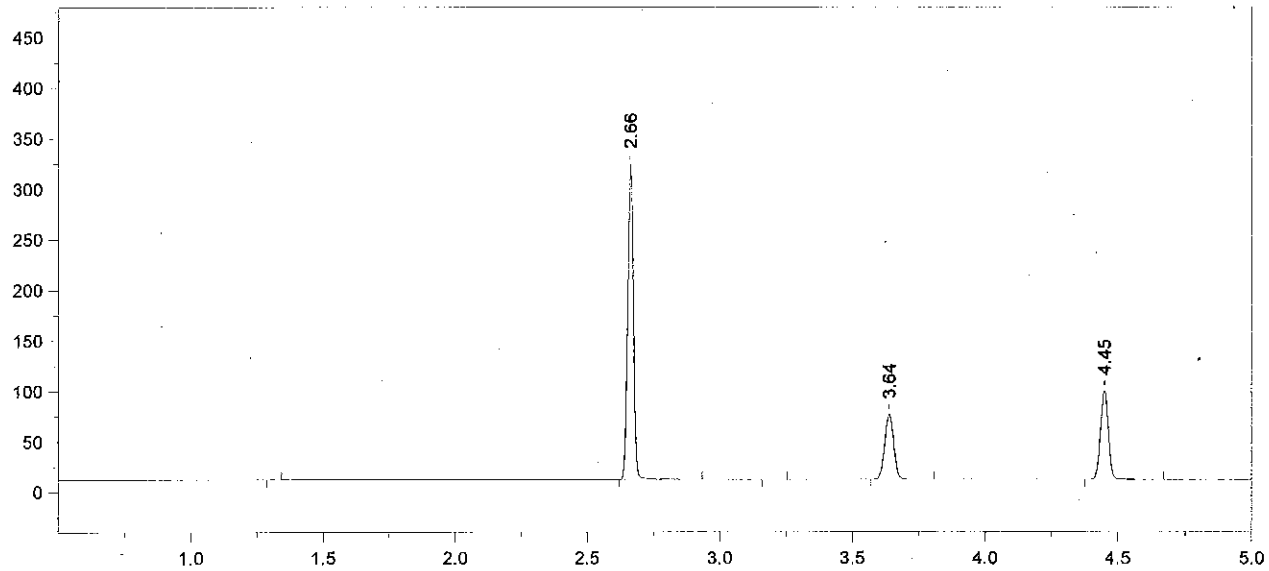
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	464125	0.4897	0.3997
4	3.64	t-Butanol	144692	1.0234	0.8353
5	4.45	n-Propanol	182199	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:33:14 AM
Bound File Name = SIM07102012.0051.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 3:35:35 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

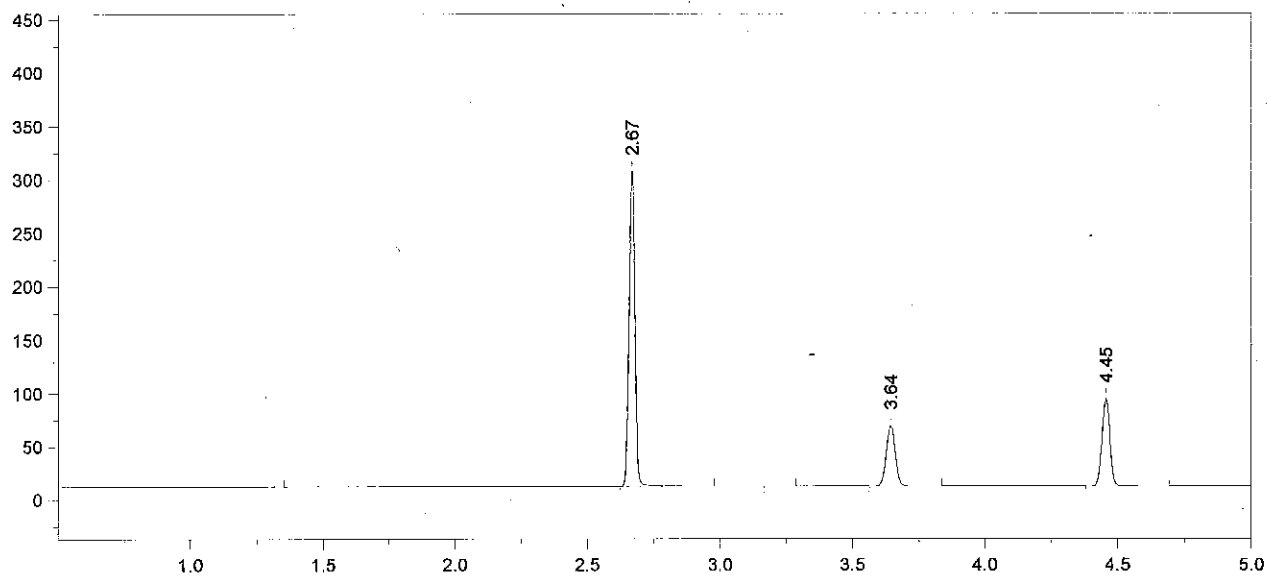
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	472529	0.5023	0.4099
4	3.64	t-Butanol	137352	0.9787	0.7988
5	4.45	n-Propanol	180847	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:33:22 AM
Bound File Name = SIM07102012.0052.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 3:52:49 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

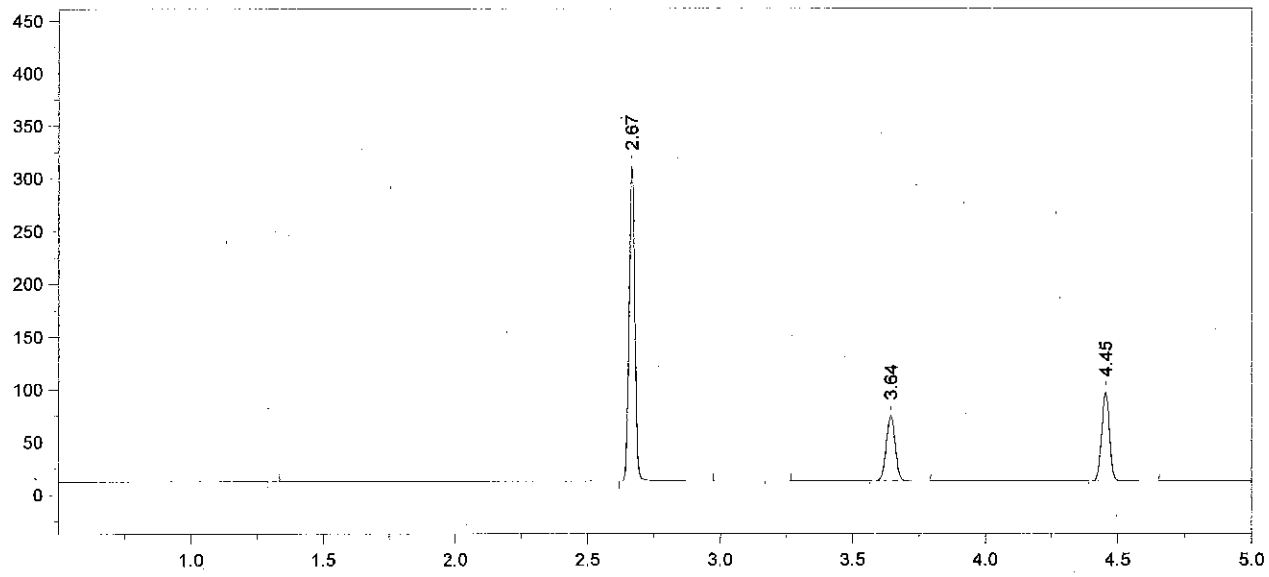
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	471982	0.4890	0.3991
4	3.64	t-Butanol	147613	1.0252	0.8367
5	4.45	n-Propanol	185549	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:33:30 AM
Bound File Name = SIM07102012.0053.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 4:06:04 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

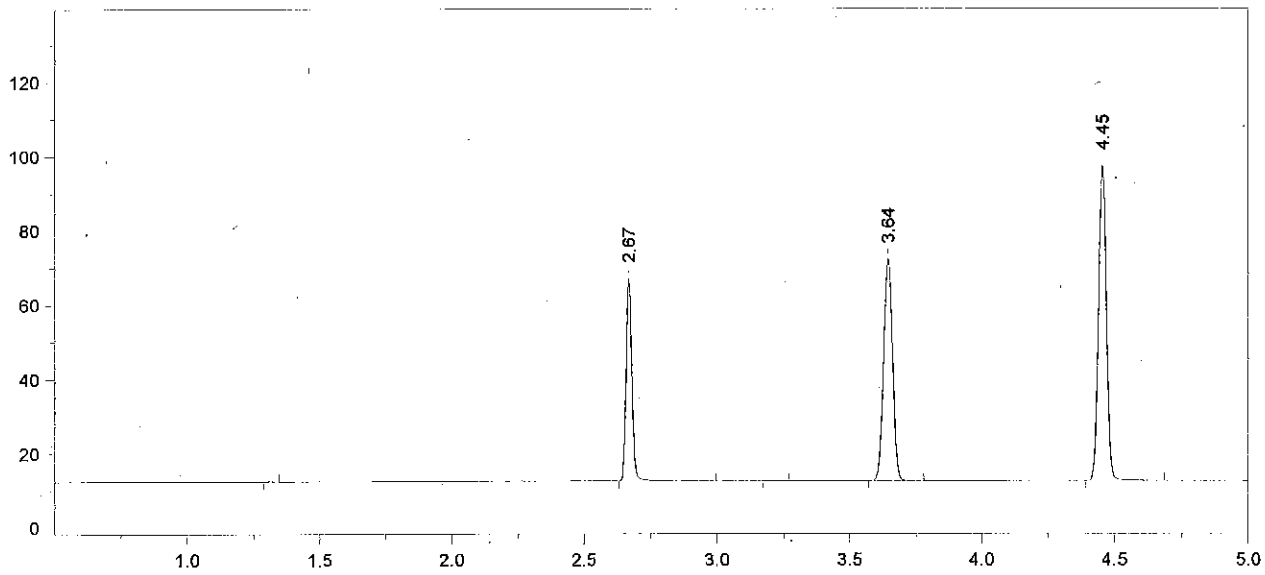
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	452901	0.5019	0.4097
4	3.64	t-Butanol	130872	0.9723	0.7936
5	4.45	n-Propanol	173458	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:33:40 AM
Bound File Name = SIM07102012.0054.RAW
Sample Name = .40 ALB
Date Taken = 7/11/2012 4:24:13 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

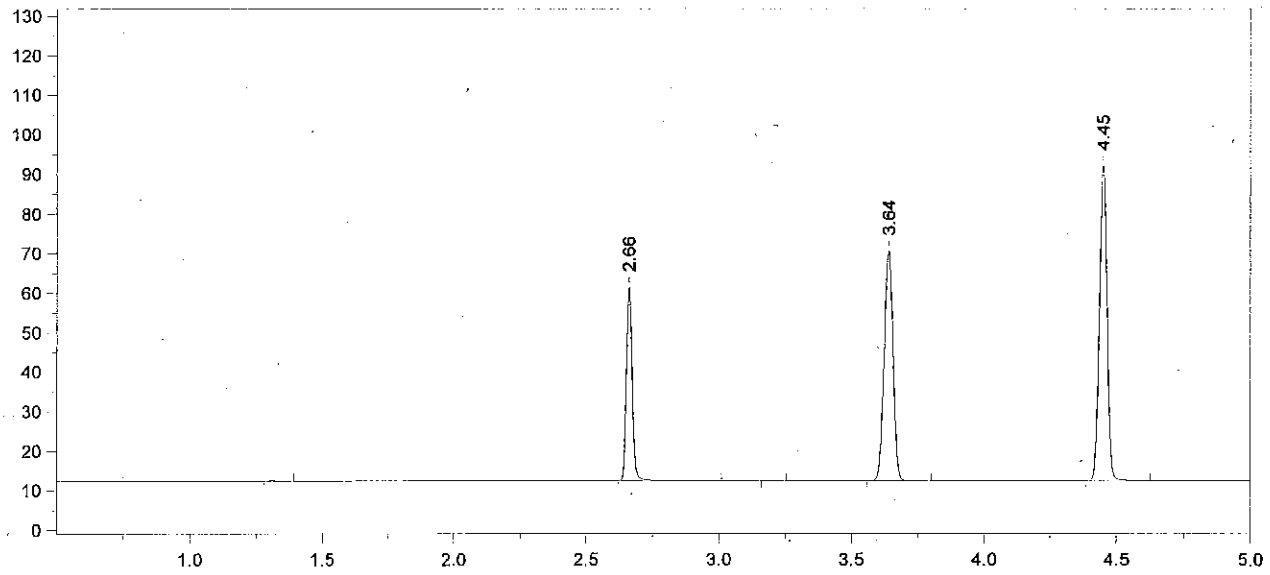
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	455551	0.4917	0.4013
4	3.64	t-Butanol	142053	1.0278	0.8389
5	4.45	n-Propanol	178107	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:33:48 AM
Bound File Name = SIM07102012.0055.RAW
Sample Name = CCS
Date Taken = 7/11/2012 4:37:49 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

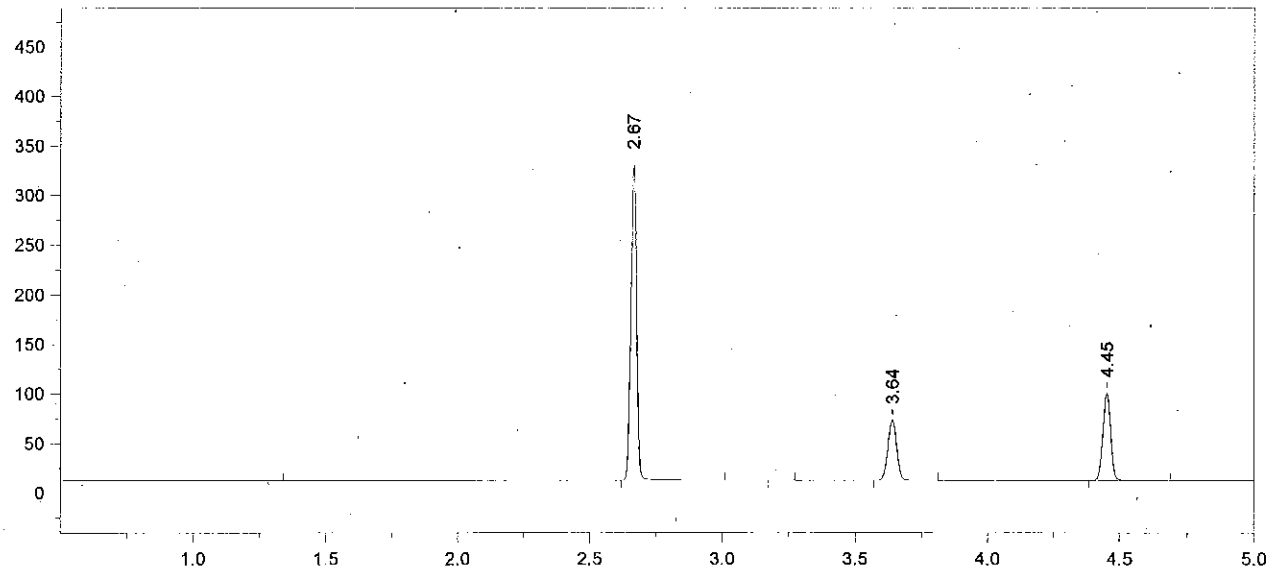
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	84550	0.0899	0.0734
4	3.64	t-Butanol	137963	0.9831	0.8024
5	4.45	n-Propanol	180846	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:33:56 AM
Bound File Name = SIM07102012.0056.RAW
Sample Name = CCS
Date Taken = 7/11/2012 4:55:42 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

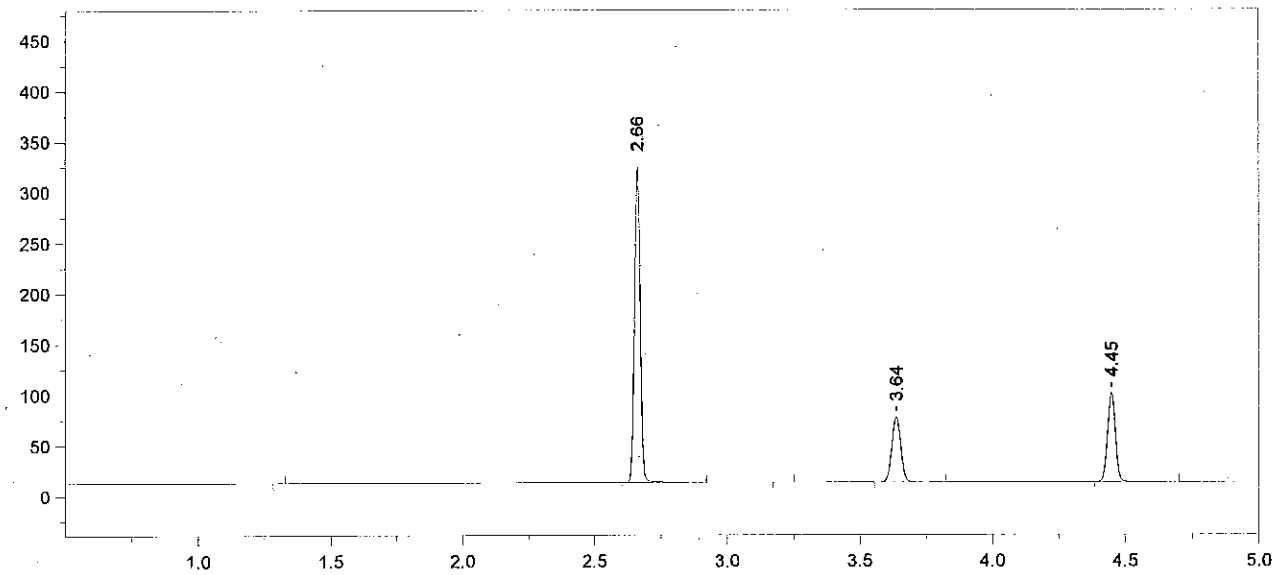
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	76343	0.0873	0.0713
4	3.64	t-Butanol	134000	1.0274	0.8385
5	4.45	n-Propanol	168076	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:34:04 AM
Bound File Name = SIM07102012.0057.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 8:21:05 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

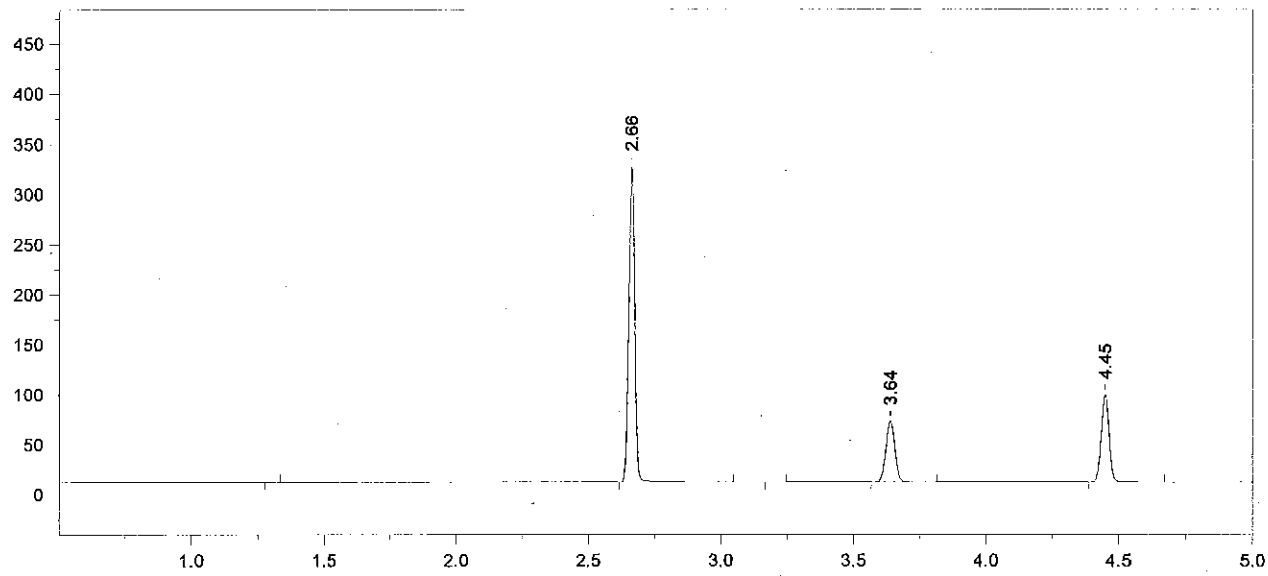
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	483583	0.4995	0.4077
4	3.64	t-Butanol	140013	0.9695	0.7913
5	4.45	n-Propanol	186097	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:34:12 AM
Bound File Name = SIM07102012.0058.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 8:38:08 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

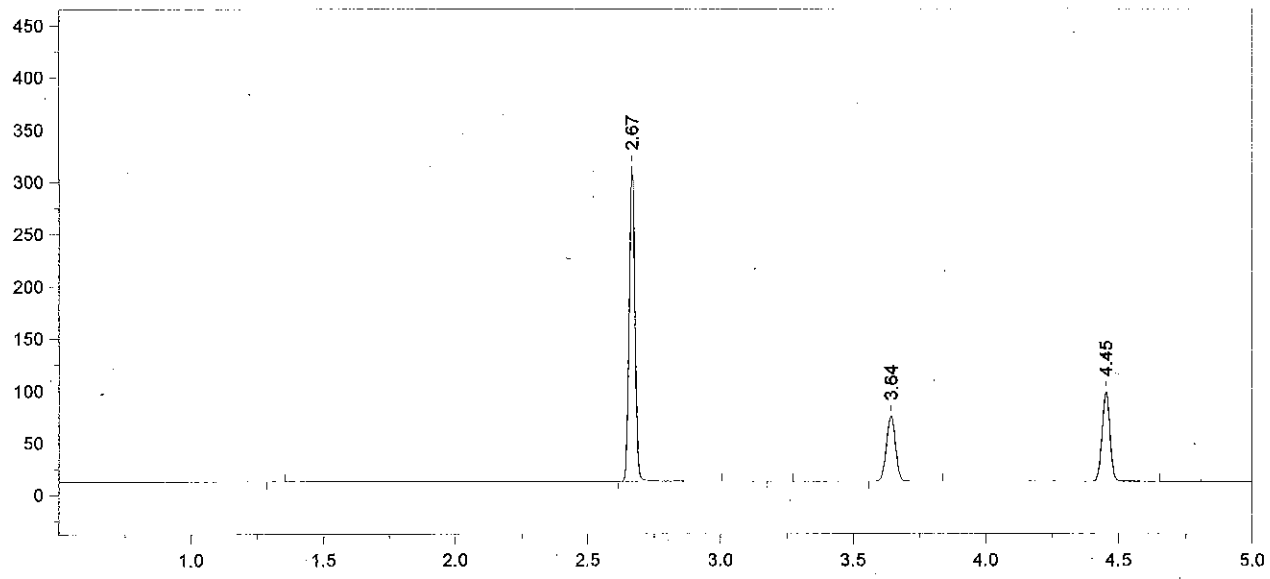
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	476161	0.4889	0.3991
4	3.64	t-Butanol	148193	1.0201	0.8326
5	4.45	n-Propanol	187201	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:34:19 AM
Bound File Name = SIM07102012.0059.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 8:51:47 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

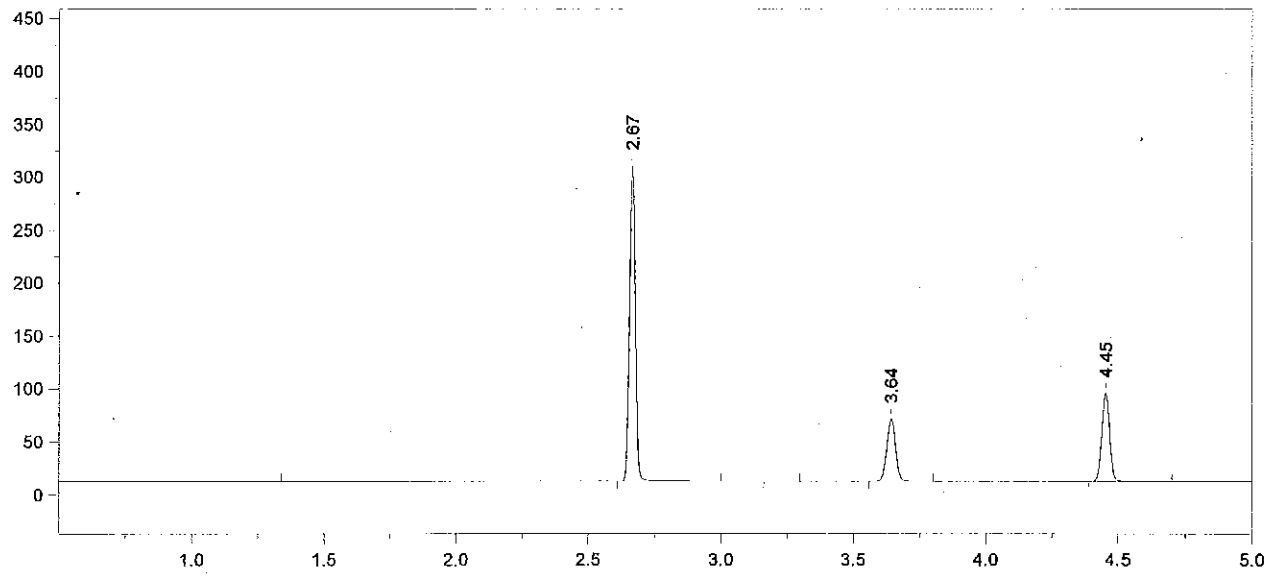
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	477394	0.4981	0.4066
4	3.64	t-Butanol	140129	0.9802	0.8001
5	4.45	n-Propanol	184216	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:34:27 AM
Bound File Name = SIM07102012.0060.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 9:09:35 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

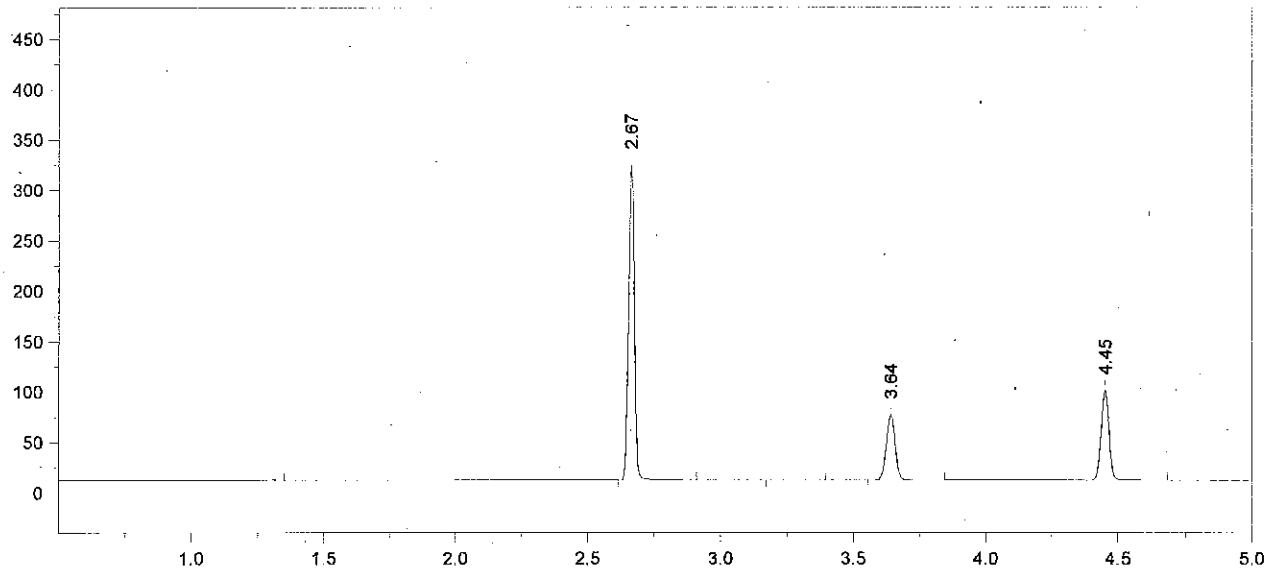
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	458430	0.4886	0.3988
4	3.64	t-Butanol	143707	1.0268	0.8381
5	4.45	n-Propanol	180348	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 10:42:17 AM
Bound File Name = SIM07102012.0061.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 9:23:16 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

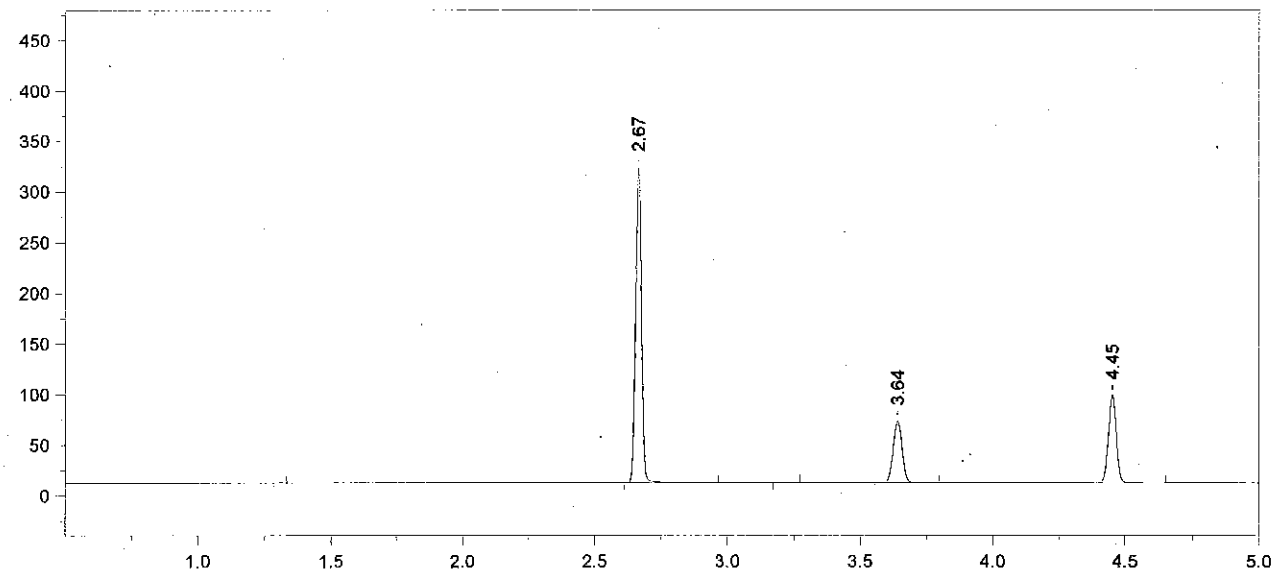
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	453665	0.4942	0.4034
4	3.64	t-Butanol	135244	0.9877	0.8062
5	4.45	n-Propanol	176448	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 10:42:23 AM
Bound File Name = SIM07102012.0062.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 9:41:00 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

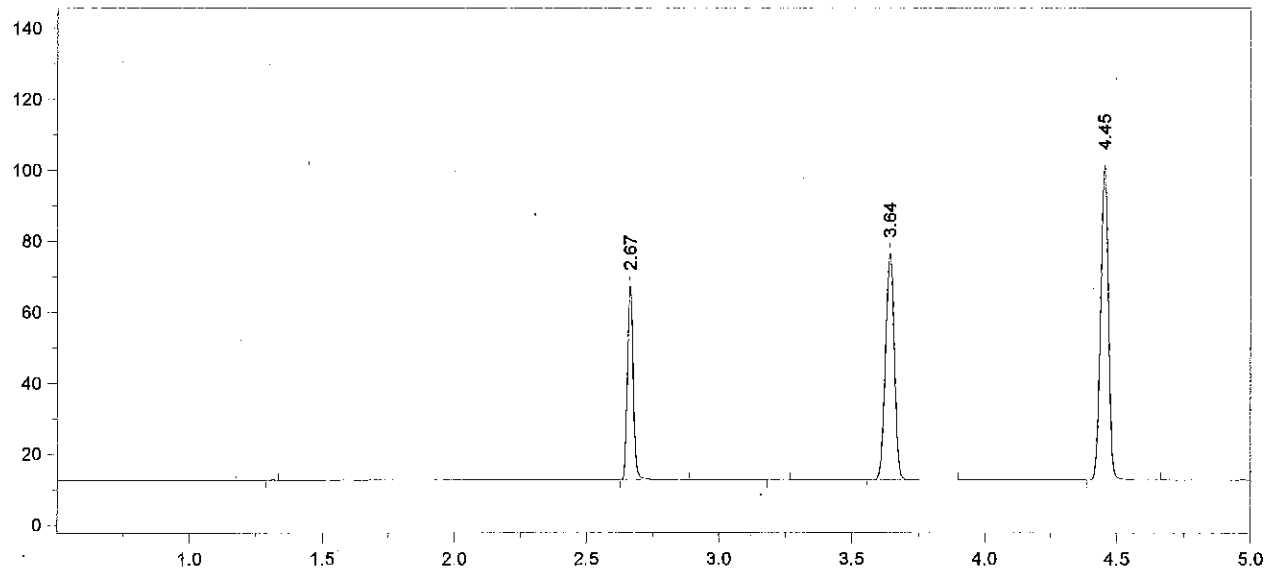
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	477169	0.4852	0.3960
4	3.64	t-Butanol	149448	1.0188	0.8315
5	4.45	n-Propanol	189031	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 10:42:30 AM
Bound File Name = SIM07102012.0063.RAW
Sample Name = .40 KW
Date Taken = 7/11/2012 9:54:42 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

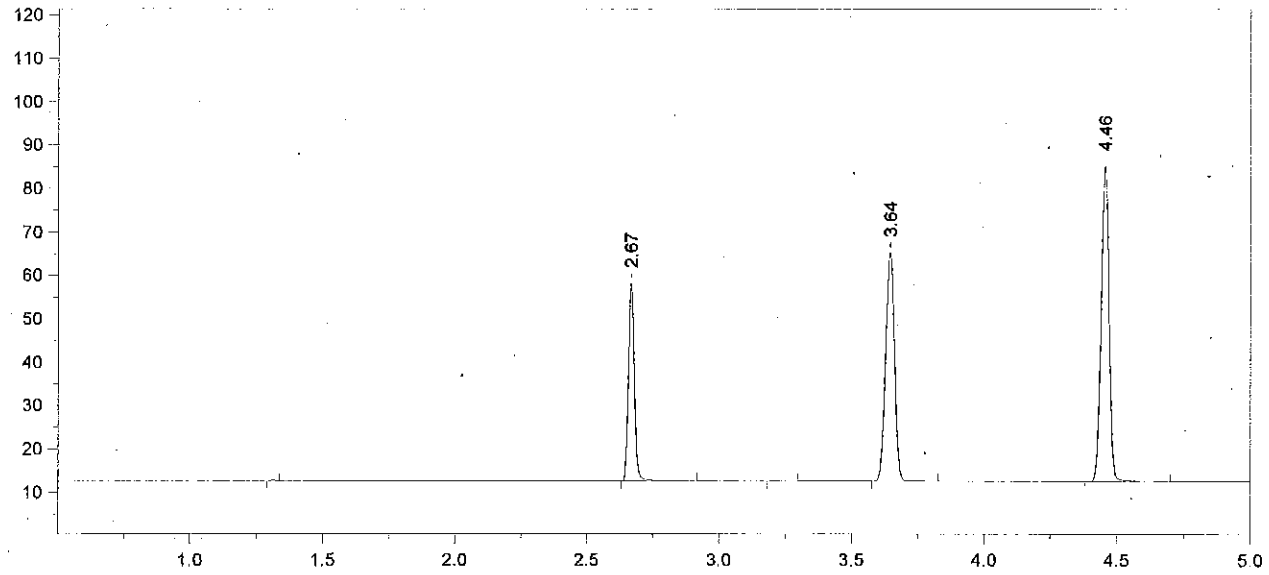
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	474179	0.4954	0.4043
4	3.64	t-Butanol	140055	0.9808	0.8006
5	4.45	n-Propanol	184006	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 10:42:36 AM
Bound File Name = SIM07102012.0064.RAW
Sample Name = CCS
Date Taken = 7/11/2012 10:12:24 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	84957	0.0874	0.0714
4	3.64	t-Butanol	148055	1.0215	0.8338
5	4.45	n-Propanol	186766	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 10:42:43 AM
Bound File Name = SIM07102012.0065.RAW
Sample Name = CCS
Date Taken = 7/11/2012 10:25:39 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	70448	0.0876 ✓	0.0715
4	3.64	t-Butanol	121749	1.0147	0.8282
5	4.46	n-Propanol	154618	1.0000	0.8162

Headspace Alcohol Analysis Standards Coversheet

Analyst: KW Date: 7/12/2012

Calibration Standards:

Lot ID: ES-05102012 Preparation Date: 05/10/2012 Expiration Date: 08/10/2012

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.023	0.087	0.211	0.414	
Acceptance Range (± 10%)	0.007	0.025	0.096	0.232	0.455	
	0.005	0.021	0.078	0.190	0.372	

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range		
Aqueous	~~Cerilliant~~	~~FN111711-01~~	~~0.100~~	~~0.110~~	~~0.090~~	KW
	Cerilliant	FN021111-03	0.08	0.072	0.088	7/12/12

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	✓
2	Compound Retention Times:			N/A	✓
		Acetaldehyde	1.92		
		Methanol	2.02		
		Ethanol	2.66		
		Acetone	3.07		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45		
3	Standard A		0.0055	(Y) N	✓
4	Standard B		0.022	(Y) N	✓
5	Standard C		0.085	(Y) N	✓
6	Standard D		0.206	(Y) N	✓
7	Standard E		0.417	(Y) N	✓
8	Aqueous QC		0.077	(Y) N	✓ AVG = 0.078 ✓
9	Aqueous QC		0.078	(Y) N	✓

7/13/2012

File Name: C:\Methods\SimCal 07112012.cal
Version: 2

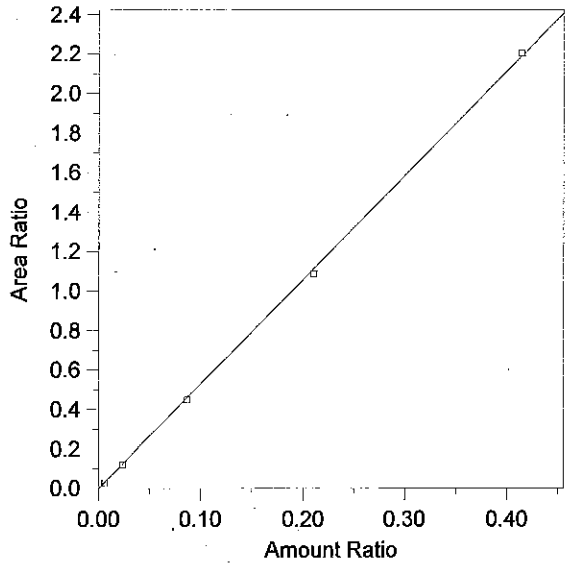
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1000
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:	2.668 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

$Y = 5.277935 X + 0$

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9996979
Average error:	3.311%
Average CF:	5.117666
RSD:	2.879%

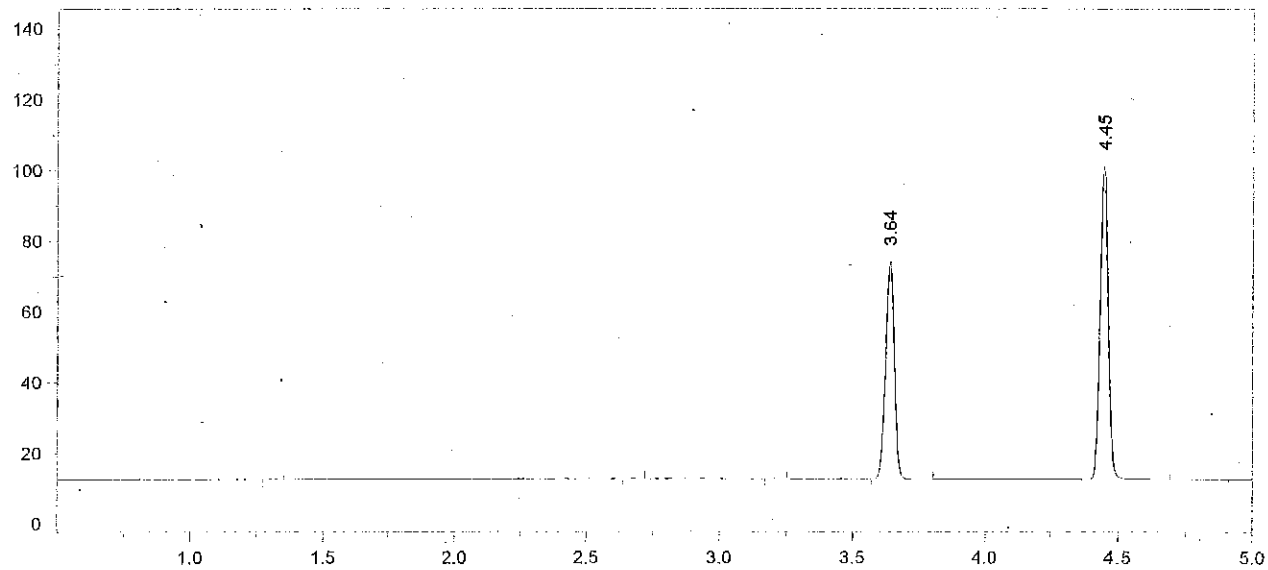
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.081)	(85146)	--	--	0.081	85146	Manual	5/11/2012 8:03:03 AM
2	0.0059	5543.012	939493.6	-6.591	0.0059	2.908727E-02	C:\Alcohol Data\SIM07112012\SIM07062012.0068.BND	7/12/2012 8:43:52 AM
3	0.0235	22368.3	951842.6	-4.856	0.0235	0.1180083	C:\Alcohol Data\SIM07112012\SIM07062012.0069.BND	7/12/2012 8:43:58 AM
4	0.0869	83245.19	957942.3	-2.207	0.0869	0.4485321	C:\Alcohol Data\SIM07112012\SIM07062012.0070.BND	7/12/2012 8:44:05 AM
5	0.2107	205693.4	976238.3	-2.216	0.2107	1.087422	C:\Alcohol Data\SIM07112012\SIM07062012.0071.BND	7/12/2012 8:44:10 AM
6	0.4144	402026	970139.9	0.687	0.4144	2.202197	C:\Alcohol Data\SIM07112012\SIM07062012.0072.BND	7/12/2012 8:44:17 AM

File Name = C:\Alcohol Data\SIM07112012\SIM07112012.SEQ
Version = 2
File Date = 7/12/2012 8:41:31 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM07062012.0066.raw	simsoln.met	Blank	1.00	1.00
2	SIM07062012.0067.raw	simsoln.met	TMX	1.00	1.00
3	SIM07062012.0068.raw	simsoln.met	STD A	1.00	1.00
4	SIM07062012.0069.raw	simsoln.met	STD B	1.00	1.00
5	SIM07062012.0070.raw	simsoln.met	STD C	1.00	1.00
6	SIM07062012.0071.raw	simsoln.met	STD D	1.00	1.00
7	SIM07062012.0072.raw	simsoln.met	STD E	1.00	1.00
8	SIM07062012.0073.raw	simsoln.met	AQ QC	1.00	1.00
9	SIM07062012.0074.raw	simsoln.met	AQ QC	1.00	1.00
10	SIM07062012.0075.raw	simsoln.met	CCS	1.00	1.00
11	SIM07062012.0076.raw	simsoln.met	CCS	1.00	1.00
12	SIM07062012.0077.raw	simsoln.met	.08 ALB	1.00	1.00
13	SIM07062012.0078.raw	simsoln.met	.08 ALB	1.00	1.00
14	SIM07062012.0079.raw	simsoln.met	.08 ALB	1.00	1.00
15	SIM07062012.0080.raw	simsoln.met	.08 ALB	1.00	1.00
16	SIM07062012.0081.raw	simsoln.met	.08 ALB	1.00	1.00
17	SIM07062012.0082.raw	simsoln.met	.08 ALB	1.00	1.00
18	SIM07062012.0083.raw	simsoln.met	.08 ALB	1.00	1.00
19	SIM07062012.0084.raw	simsoln.met	CCS	1.00	1.00
20	SIM07062012.0085.raw	simsoln.met	CCS	1.00	1.00
21	SIM07062012.0086.raw	simsoln.met	.08 KW	1.00	1.00
22	SIM07062012.0087.raw	simsoln.met	.08 KW	1.00	1.00
23	SIM07062012.0088.raw	simsoln.met	.08 KW	1.00	1.00
24	SIM07062012.0089.raw	simsoln.met	.08 KW	1.00	1.00
25	SIM07062012.0090.raw	simsoln.met	.08 KW	1.00	1.00
26	SIM07062012.0091.raw	simsoln.met	.08 KW	1.00	1.00
27	SIM07062012.0092.raw	simsoln.met	.08 KW	1.00	1.00
28	SIM07062012.0093.raw	simsoln.met	CCS	1.00	1.00
29	SIM07062012.0094.raw	simsoln.met	CCS	1.00	1.00
30	SIM07062012.0095.raw	simsoln.met	.16 ALB	1.00	1.00
31	SIM07062012.0096.raw	simsoln.met	.16 ALB	1.00	1.00
32	SIM07062012.0097.raw	simsoln.met	.16 ALB	1.00	1.00
33	SIM07062012.0098.raw	simsoln.met	.16 ALB	1.00	1.00
34	SIM07062012.0099.raw	simsoln.met	.16 ALB	1.00	1.00
35	SIM07062012.0100.raw	simsoln.met	.16 ALB	1.00	1.00
36	SIM07062012.0101.raw	simsoln.met	.16 ALB	1.00	1.00
37	SIM07062012.0102.raw	simsoln.met	CCS	1.00	1.00
38	SIM07062012.0103.raw	simsoln.met	CCS	1.00	1.00
39	SIM07062012.0104.raw	simsoln.met	.16 KW	1.00	1.00
40	SIM07062012.0105.raw	simsoln.met	.16 KW	1.00	1.00
41	SIM07062012.0106.raw	simsoln.met	.16 KW	1.00	1.00
42	SIM07062012.0107.raw	simsoln.met	.16 KW	1.00	1.00
43	SIM07062012.0108.raw	simsoln.met	.16 KW	1.00	1.00
44	SIM07062012.0109.raw	simsoln.met	.16 KW	1.00	1.00
45	SIM07062012.0110.raw	simsoln.met	.16 KW	1.00	1.00
46	SIM07062012.0111.raw	simsoln.met	CCS	1.00	1.00
47	SIM07062012.0112.raw	simsoln.met	CCS	1.00	1.00
48	SIM07062012.0113.raw	simsoln.met	.40 ALB	1.00	1.00
49	SIM07062012.0114.raw	simsoln.met	.40 ALB	1.00	1.00
50	SIM07062012.0115.raw	simsoln.met	.40 ALB	1.00	1.00
51	SIM07062012.0116.raw	simsoln.met	.40 ALB	1.00	1.00
52	SIM07062012.0117.raw	simsoln.met	.40 ALB	1.00	1.00
53	SIM07062012.0118.raw	simsoln.met	.40 ALB	1.00	1.00
54	SIM07062012.0119.raw	simsoln.met	.40 ALB	1.00	1.00
55	SIM07062012.0120.raw	simsoln.met	CCS	1.00	1.00
56	SIM07062012.0121.raw	simsoln.met	CCS	1.00	1.00
57	SIM07062012.0122.raw	simsoln.met	.40 KW	1.00	1.00
58	SIM07062012.0123.raw	simsoln.met	.40 KW	1.00	1.00
59	SIM07062012.0124.raw	simsoln.met	.40 KW	1.00	1.00
60	SIM07062012.0125.raw	simsoln.met	.40 KW	1.00	1.00
61	SIM07062012.0126.raw	simsoln.met	.40 KW	1.00	1.00
62	SIM07062012.0127.raw	simsoln.met	.40 KW	1.00	1.00

SAMPLE DATA NOT RETAINED ∴ ALL SUBSEQUENT DATA FILES ARE ONE ENTRY OFF. I.E. ENTRY # 27 IS ACTUALLY #28.
TLC 7/13/2012

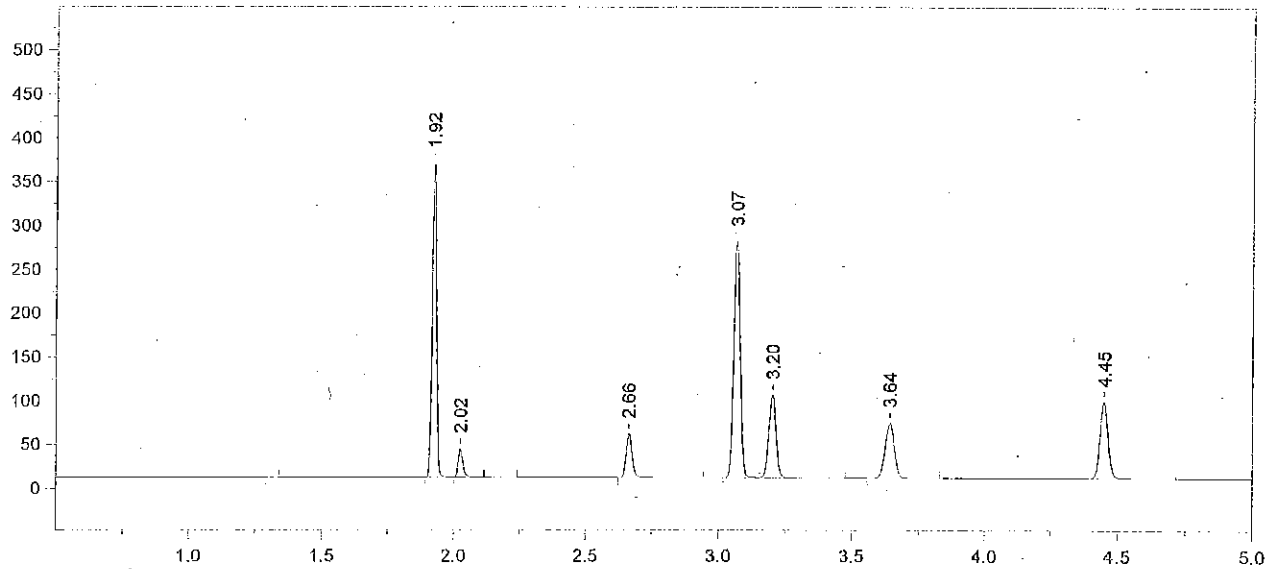
Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	SIM07062012.0128.raw	simsoln.met	.40 KW	1.00	1.00
64	SIM07062012.0129.raw	simsoln.met	CCS	1.00	1.00
65	SIM07062012.0130.raw	simsoln.met	CCS	1.00	1.00



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:11 AM
Bound File Name = SIM07062012.0066.RAW
Sample Name = ~~ces~~ KW 7/12/12 Blank
Date Taken = 7/11/2012 2:58:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

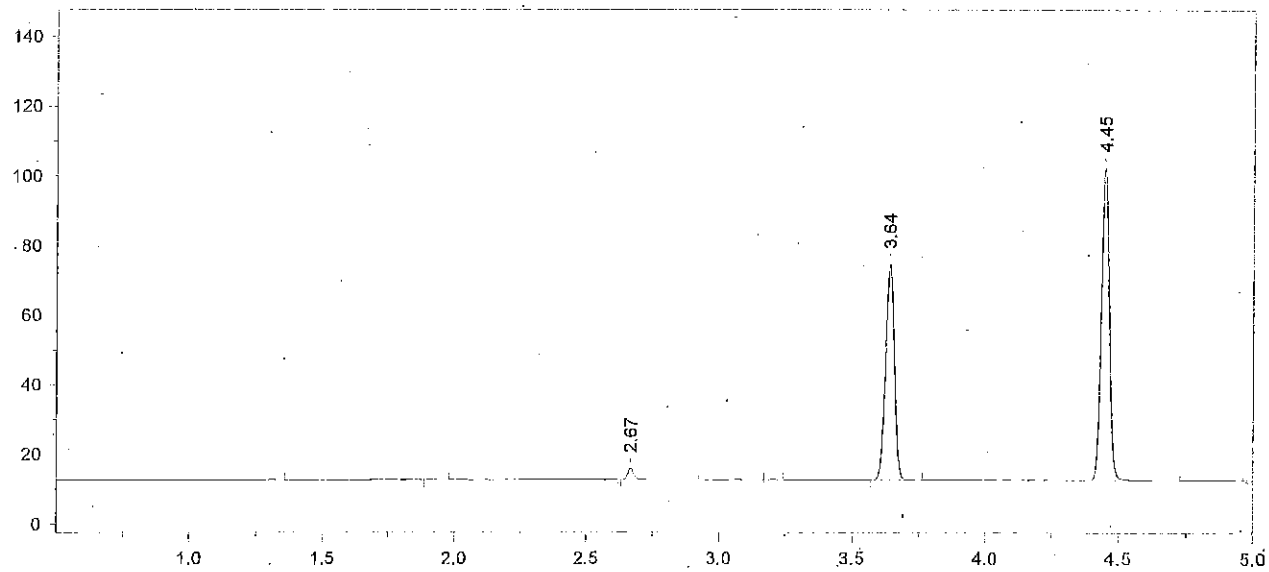
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
4	3.64	t-Butanol	141969	0.9758	0.7965
5	4.45	n-Propanol	188596	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:18 AM
Bound File Name = SIM07062012.0067.RAW
Sample Name = ~~CCS~~ KW 7/12/12 TMX
Date Taken = 7/11/2012 3:15:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

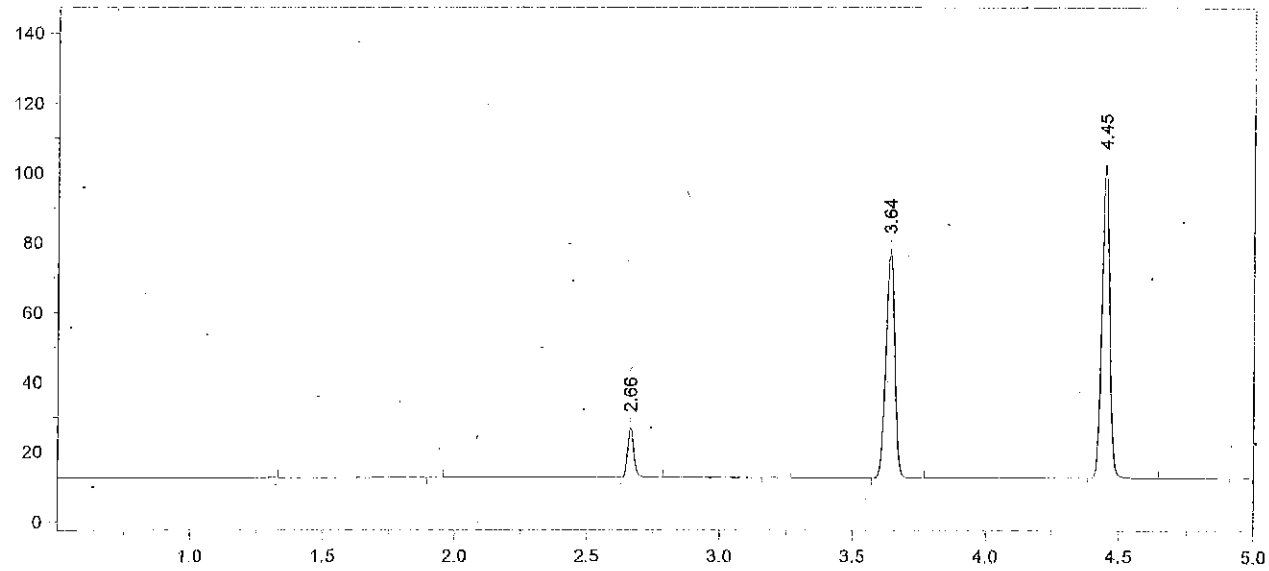
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	407078	0.0900	0.0735
3	2.02	Methanol	39583	0.0920	0.0751
4	2.66	Ethanol	77220	0.0793	0.0647
5	3.07	Acetone	457711	0.0920	0.0751
6	3.20	Isopropanol	175717	0.1230	0.1004
7	3.64	t-Butanol	144763	1.0171	0.8301
8	4.45	n-Propanol	184509	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:25 AM
Bound File Name = SIM07062012.0068.RAW
Sample Name = ~~CES~~ KW 7/12/12 STD A
Date Taken = 7/11/2012 3:29:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

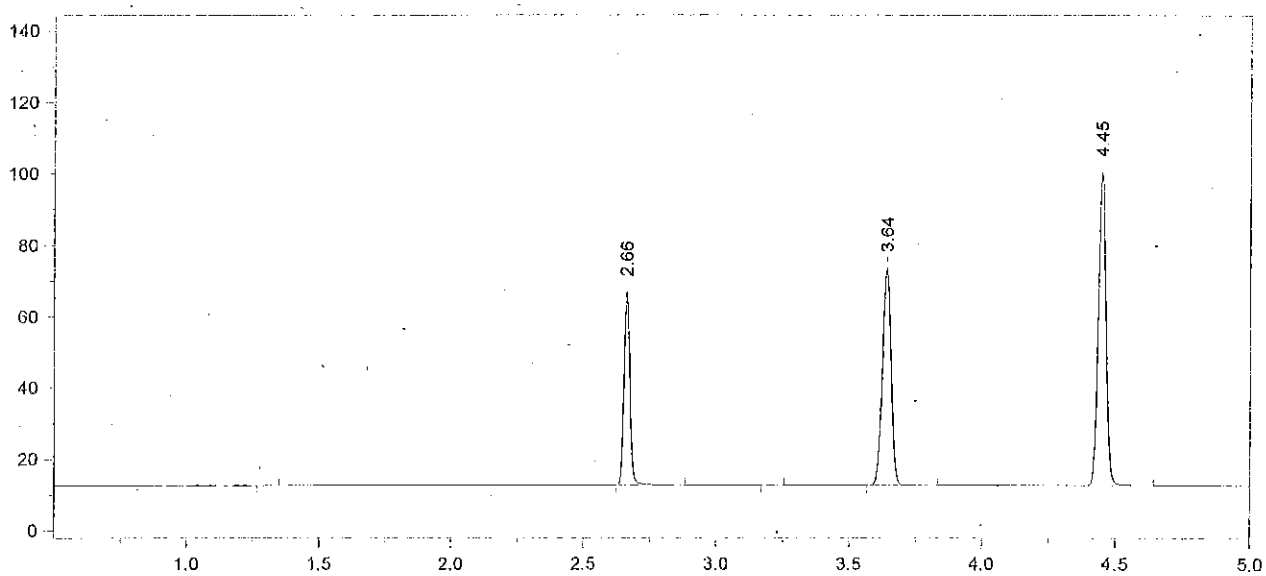
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05543	0.0055	0.0045
6	3.64	t-Butanol	142575	0.9699	0.7916
7	4.45	n-Propanol	190565	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:31 AM
Bound File Name = SIM07062012.0069.RAW
Sample Name = ~~CCS~~ KW 7/12/12 STD B
Date Taken = 7/11/2012 3:47:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

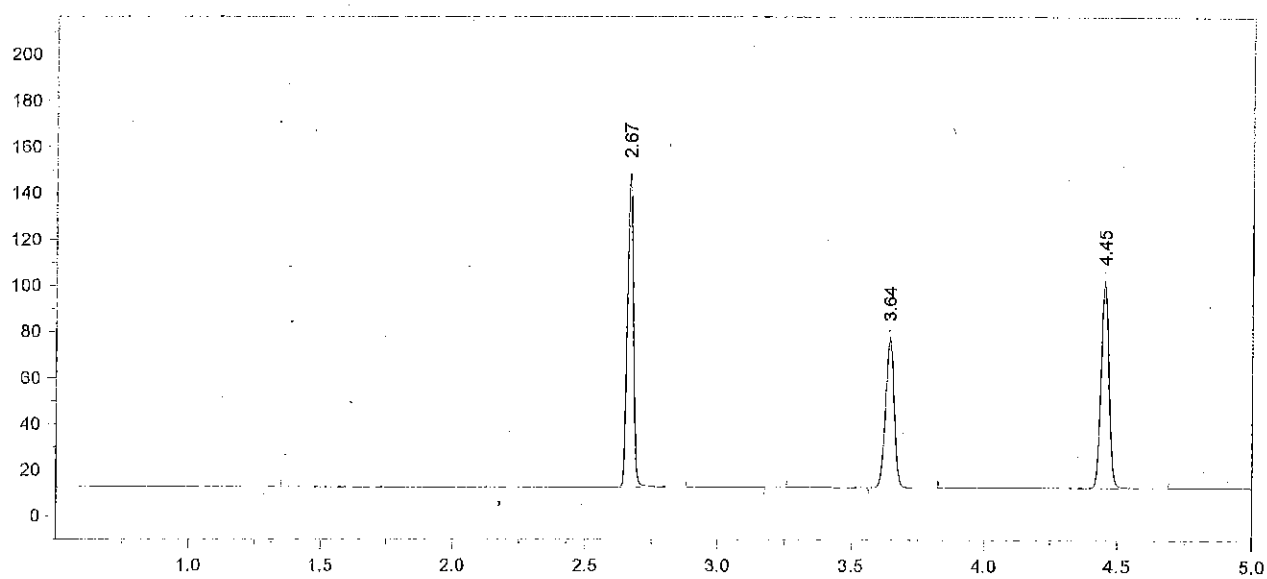
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	22368	0.0224	0.0182
5	3.64	t-Butanol	150750	1.0310	0.8415
6	4.45	n-Propanol	189549	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:48:37 AM
Bound File Name = SIM07062012.0070.RAW
Sample Name = ~~CCS~~ KW 7/12/12 STDC
Date Taken = 7/11/2012 4:00:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

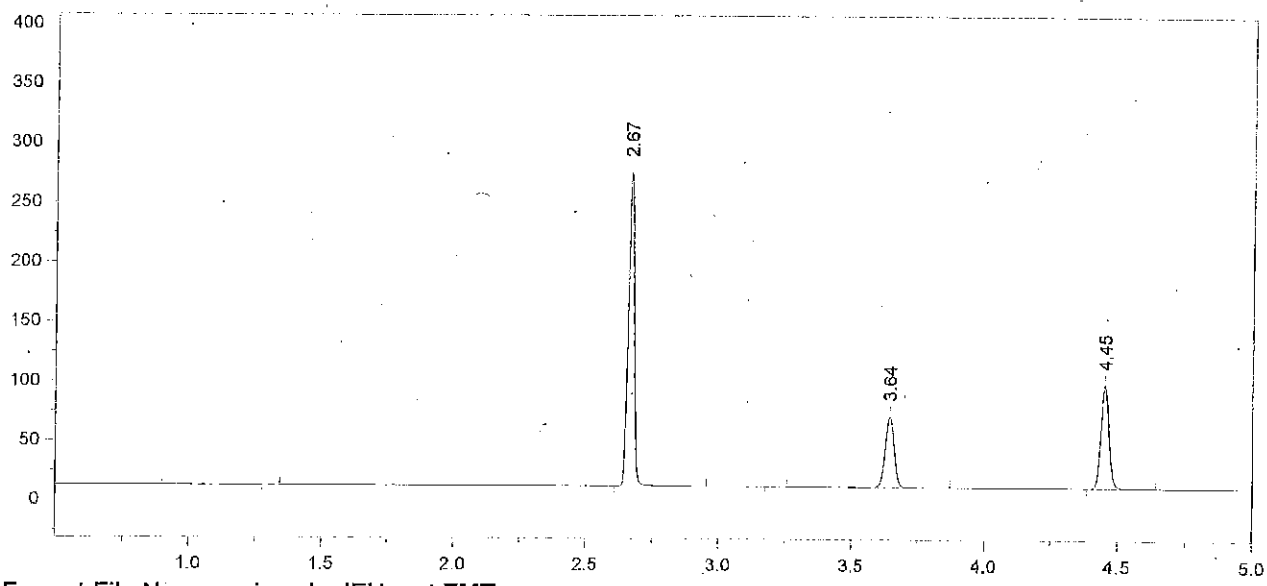
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	83245	0.0850	0.0694
4	3.64	t-Butanol	140552	0.9817	0.8013
5	4.45	n-Propanol	185595	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:44 AM
Bound File Name = SIM07062012.0071.RAW
Sample Name = ces KW 7/12/12 STD D
Date Taken = 7/11/2012 4:18:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

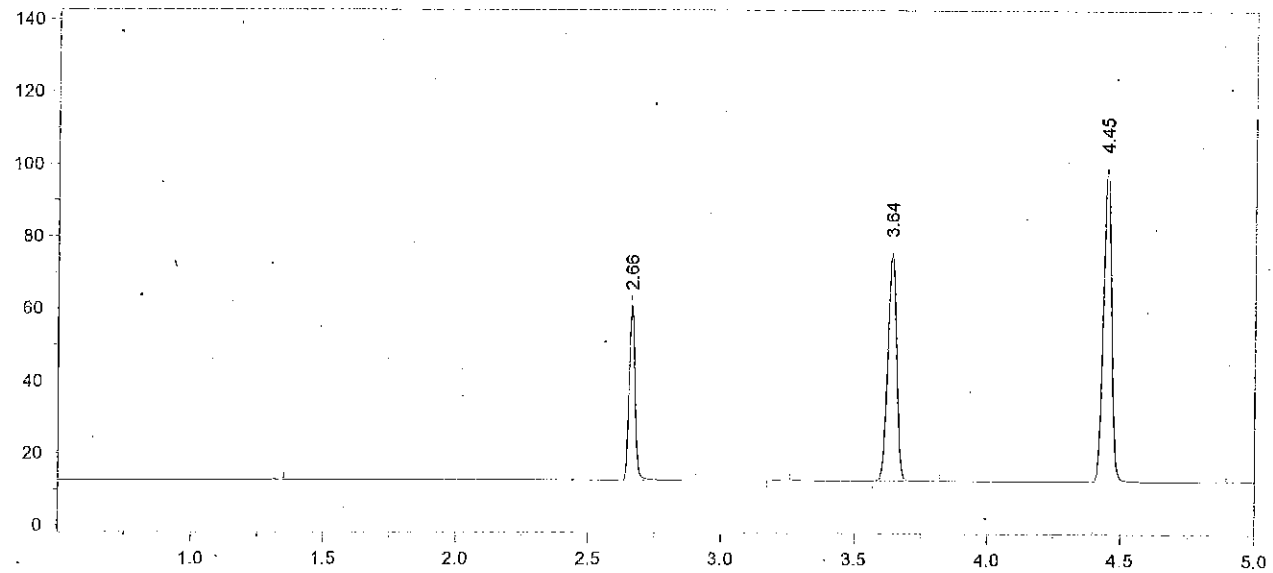
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	205693	0.2060	0.1682
4	3.64	t-Butanol	149729	1.0261	0.8375
5	4.45	n-Propanol	189157	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:50 AM
Bound File Name = SIM07062012.0072.RAW
Sample Name = ~~CCS~~ KW 7/12/12 STDE
Date Taken = 7/11/2012 4:32:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

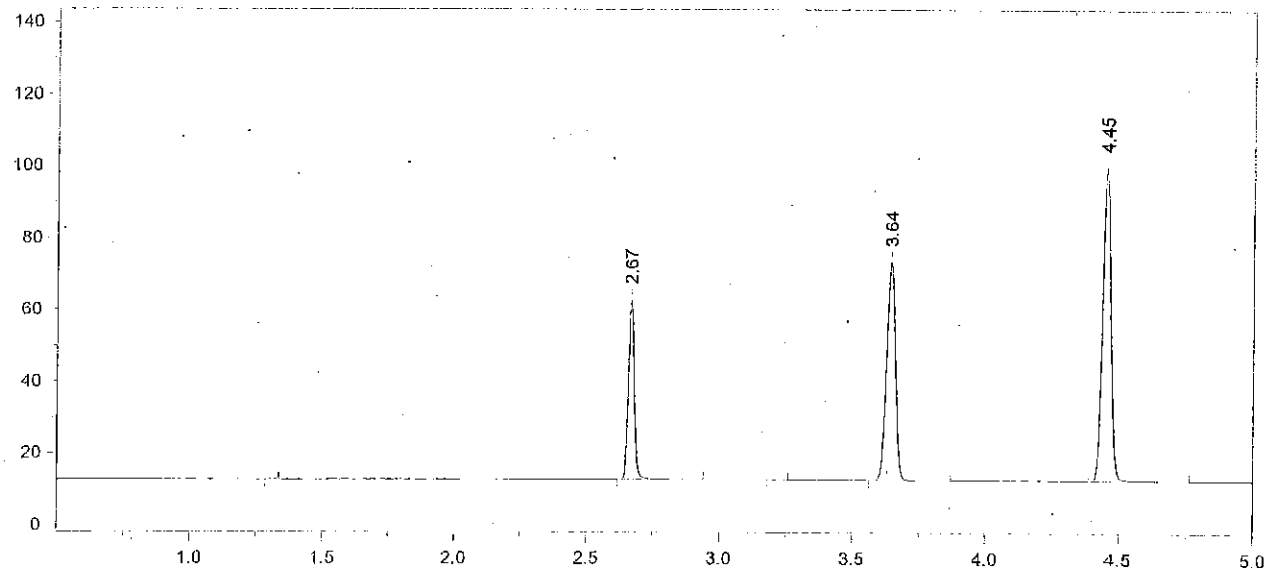
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	402026	0.4172	0.3406
4	3.64	t-Butanol	137213	0.9743	0.7952
5	4.45	n-Propanol	182557	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:56 AM
Bound File Name = SIM07062012.0073.RAW
Sample Name = ~~CES~~ KW 7/12/12 AQ.QC
Date Taken = 7/11/2012 4:49:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

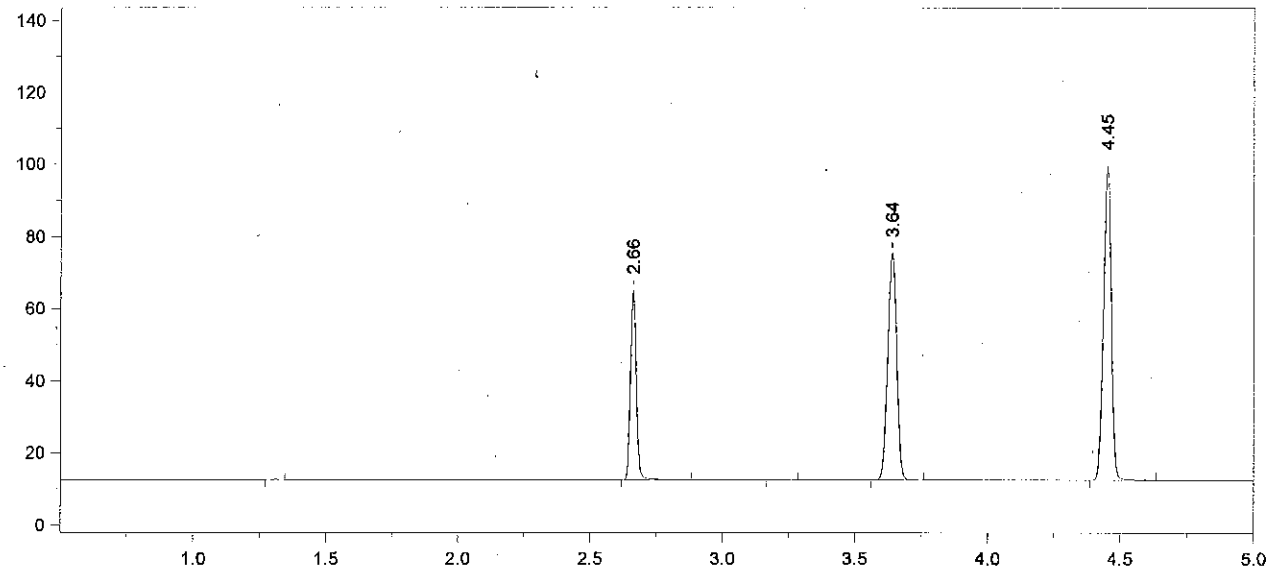
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	74597	0.0771	0.0629
4	3.64	t-Butanol	145335	1.0279	0.8390
5	4.45	n-Propanol	183282	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:49:03 AM
Bound File Name = SIM07062012.0074.RAW
Sample Name = ~~CCS~~ KW 7/12/12 AQ QC
Date Taken = 7/11/2012 5:03:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

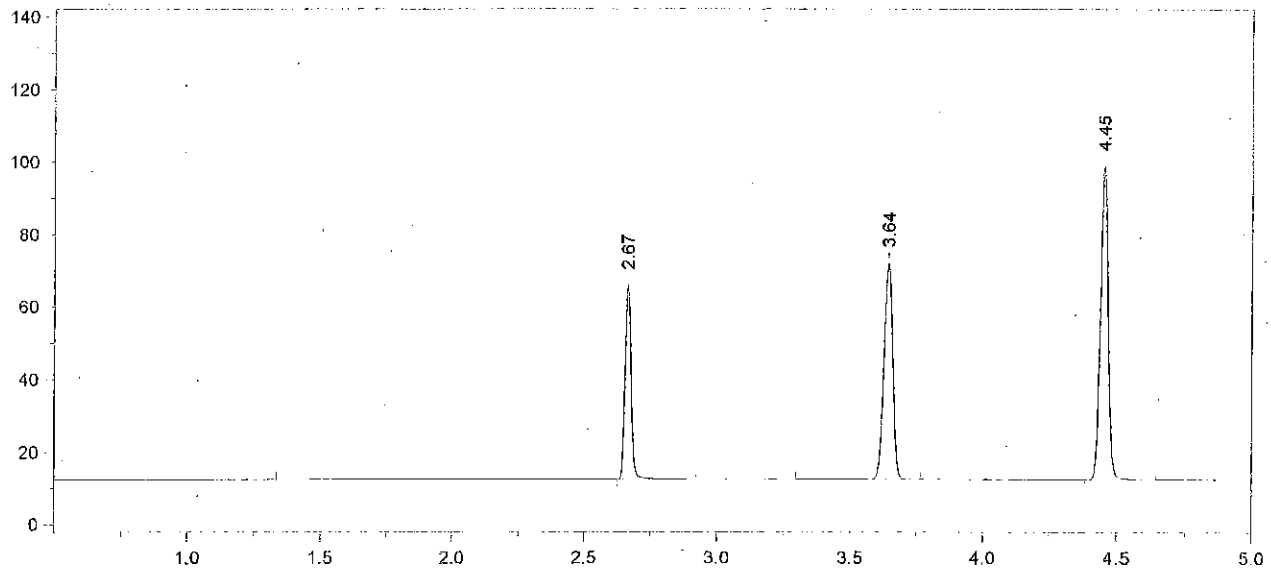
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	77193	0.0786	0.0641
4	3.64	t-Butanol	140393	0.9779	0.7981
5	4.45	n-Propanol	186111	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:43 AM
Bound File Name = SIM07062012.0110.RAW
Sample Name = ~~CCS~~ KW 7/12/12 ~~1.10 KW~~ CCS
Date Taken = 7/12/2012 2:39:14 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

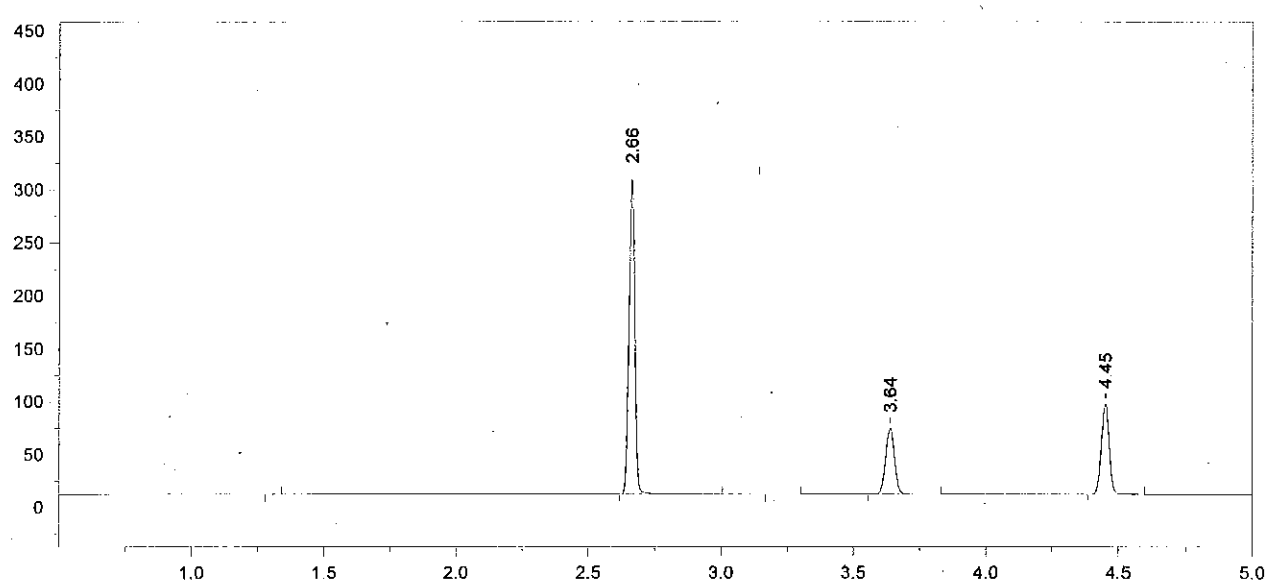
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81074	0.0839	0.0685
4	3.64	t-Butanol	144935	1.0264	0.8377
5	4.45	n-Propanol	183055	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:51 AM
Bound File Name = SIM07062012.0111.RAW
Sample Name = CCS
Date Taken = 7/12/2012 2:54:43 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

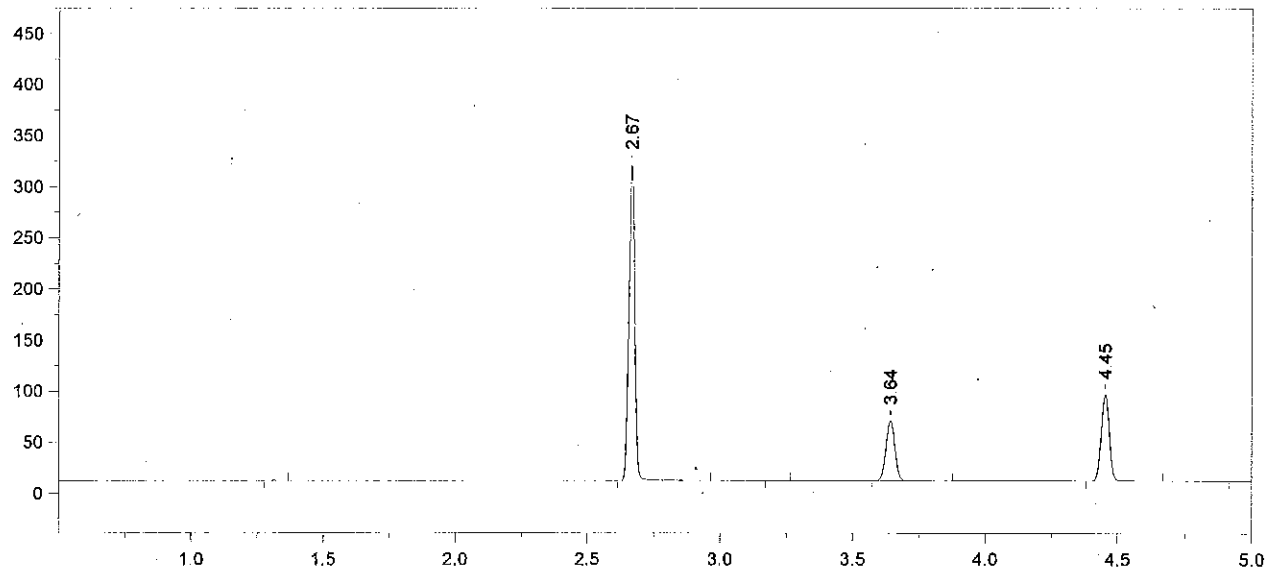
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	82922	0.0862	0.0703
4	3.64	t-Butanol	138130	0.9821	0.8016
5	4.45	n-Propanol	182329	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:59 AM
Bound File Name = SIM07062012.0112.RAW
Sample Name = ~~CCS~~ EW 7/12/12 .40 PILB
Date Taken = 7/12/2012 3:10:46 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

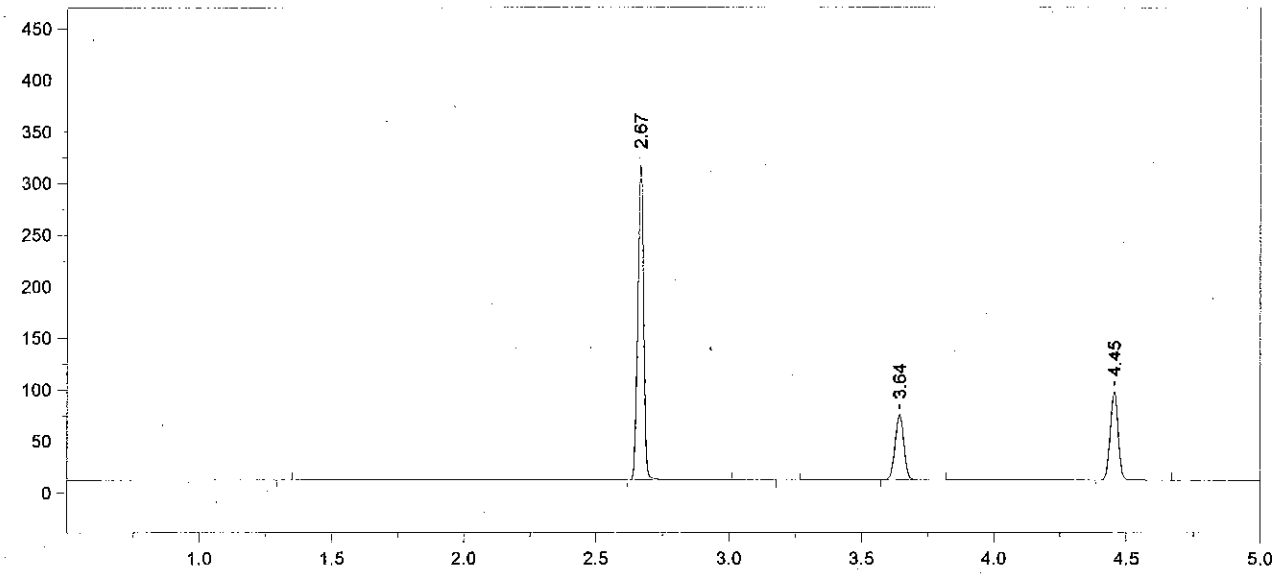
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	451362	0.4763	0.3888
4	3.64	t-Butanol	142872	1.0316	0.8420
5	4.45	n-Propanol	179539	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:54:06 AM
Bound File Name = SIM07062012.0113.RAW
Sample Name = ~~CGS~~ KW 7/12/12 .40 PLB
Date Taken = 7/12/2012 3:24:26 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

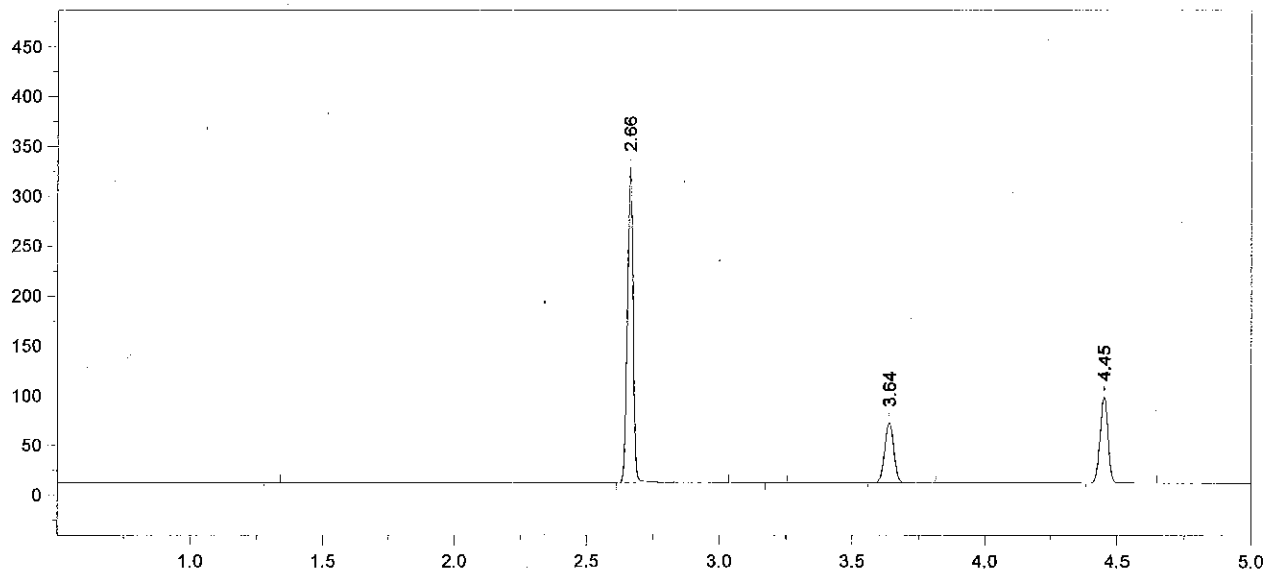
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	467772	0.4934	0.4027
4	3.64	t-Butanol	136248	0.9832	0.8025
5	4.45	n-Propanol	179634	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:54:14 AM
Bound File Name = SIM07062012.0114.RAW
Sample Name = ~~CES~~ KW 7/12/12 .40 ACB
Date Taken = 7/12/2012 3:42:13 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

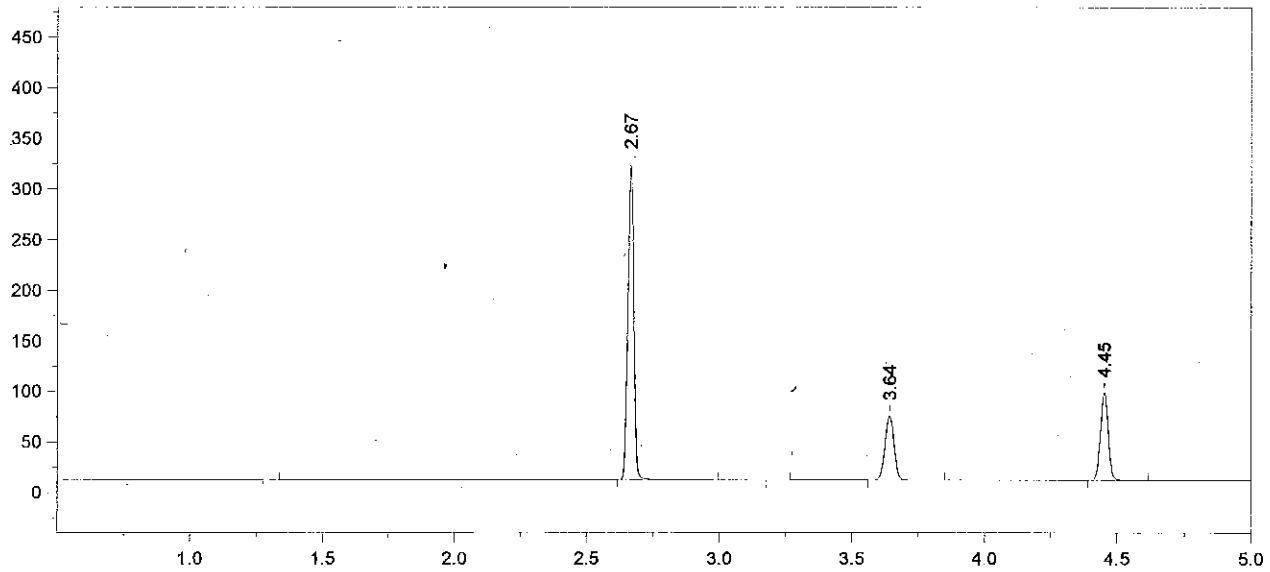
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	467242	0.4861	0.3967
4	3.64	t-Butanol	144879	1.0312	0.8417
5	4.45	n-Propanol	182120	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:54:21 AM
Bound File Name = SIM07062012.0115.RAW
Sample Name = CES KW 7/12/12 .40ALB
Date Taken = 7/12/2012 3:55:29 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

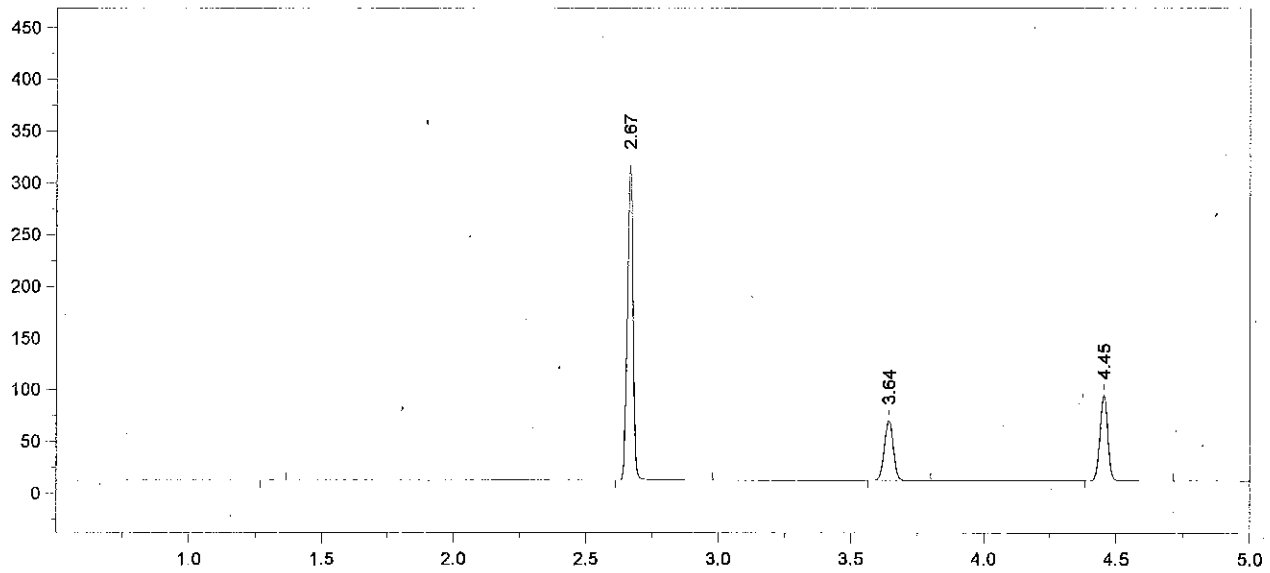
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	480503	0.4970	0.4056
4	3.64	t-Butanol	138810	0.9823	0.8017
5	4.45	n-Propanol	183191	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:54:29 AM
Bound File Name = SIM07062012.0116.RAW
Sample Name = ~~CG8~~ KW 7/12/12 .40 ALB
Date Taken = 7/12/2012 4:13:40 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

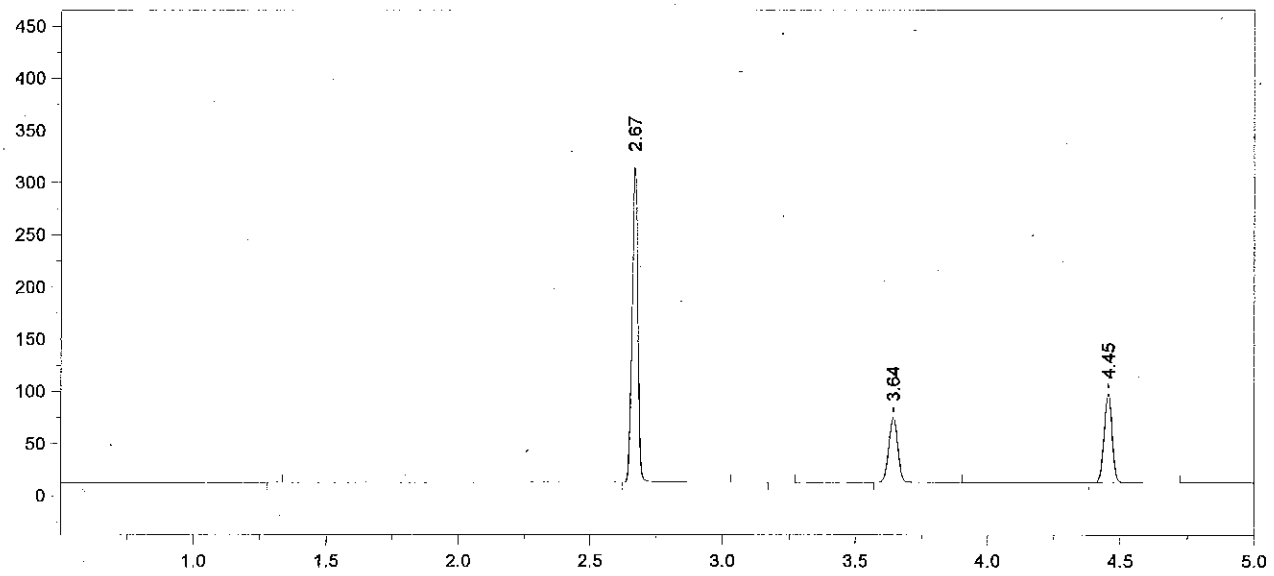
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	471233	0.4894	0.3994
4	3.64	t-Butanol	145476	1.0336	0.8437
5	4.45	n-Propanol	182443	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:54:37 AM
Bound File Name = SIM07062012.0117.RAW
Sample Name = ~~CES~~ KW 7/12/12 .40 ALB
Date Taken = 7/12/2012 4:27:28 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

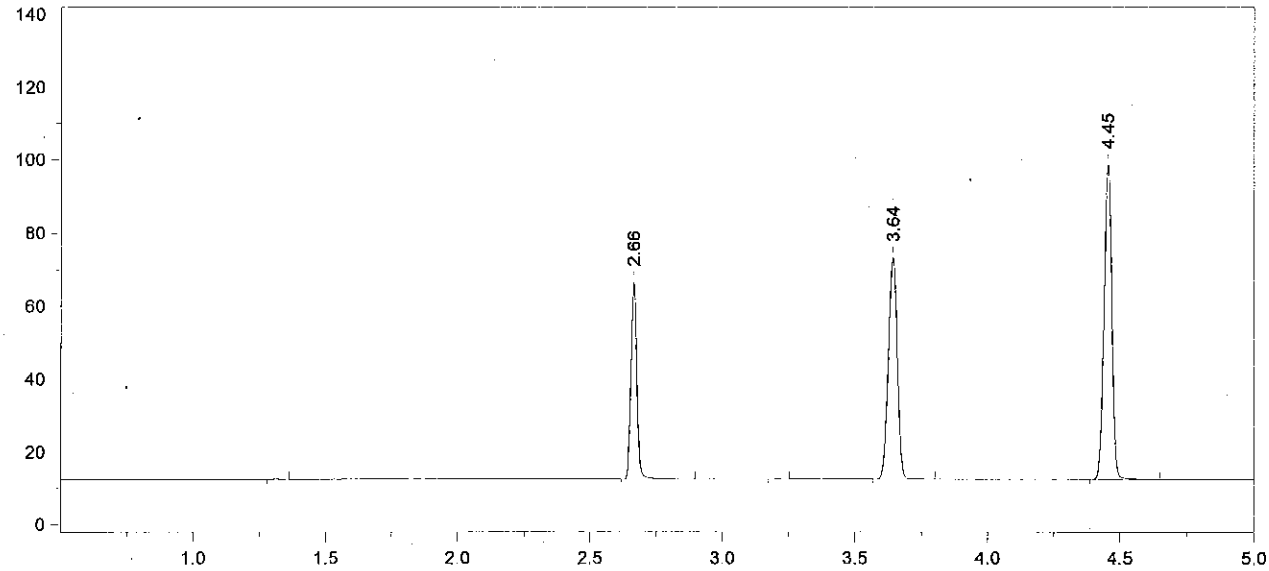
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	464025	0.4986	0.4069
3	3.64	t-Butanol	133307	0.9800	0.7999
4	4.45	n-Propanol	176338	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:54:45 AM
Bound File Name = SIM07062012.0118.RAW
Sample Name = ~~CES~~ KW 7/12/12 .40 ALB
Date Taken = 7/12/2012 4:45:07 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

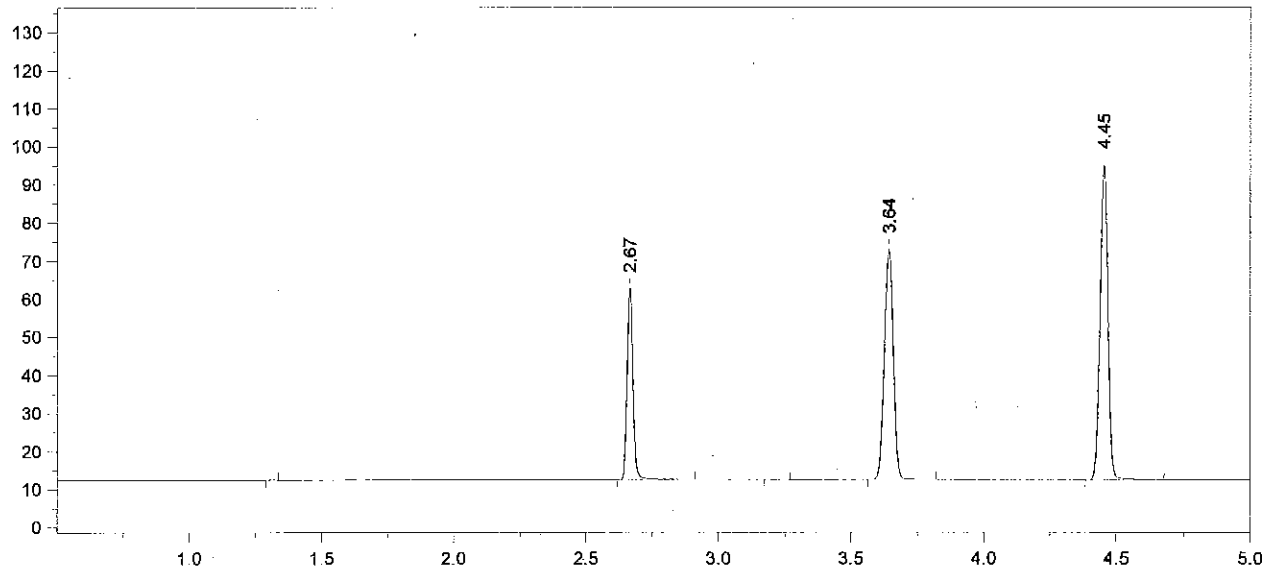
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	460411	0.4846	0.3955
4	3.64	t-Butanol	144029	1.0372	0.8466
5	4.45	n-Propanol	180009	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:54:52 AM
Bound File Name = SIM07062012.0119.RAW
Sample Name = ~~CCS~~ KW 7/12/12 ~~640 ALB~~ CCS
Date Taken = 7/12/2012 4:58:57 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

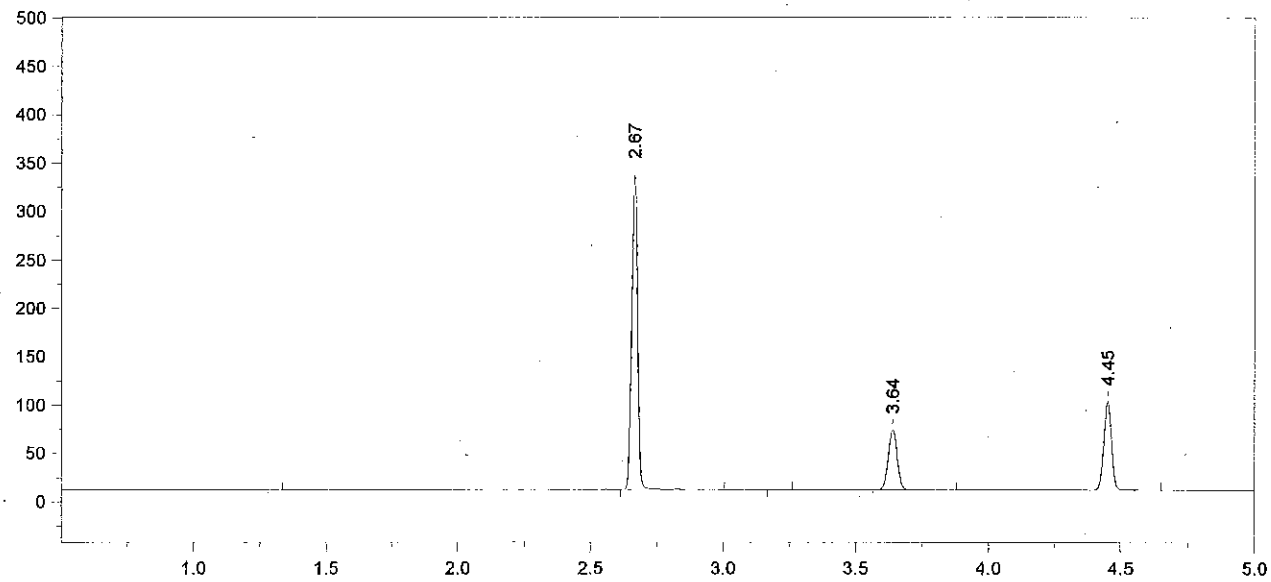
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	83588	0.0862	0.0704
4	3.64	t-Butanol	140555	0.9922	0.8098
5	4.45	n-Propanol	183631	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:55:00 AM
Bound File Name = SIM07062012.0120.RAW
Sample Name = CCS
Date Taken = 7/12/2012 5:16:31 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

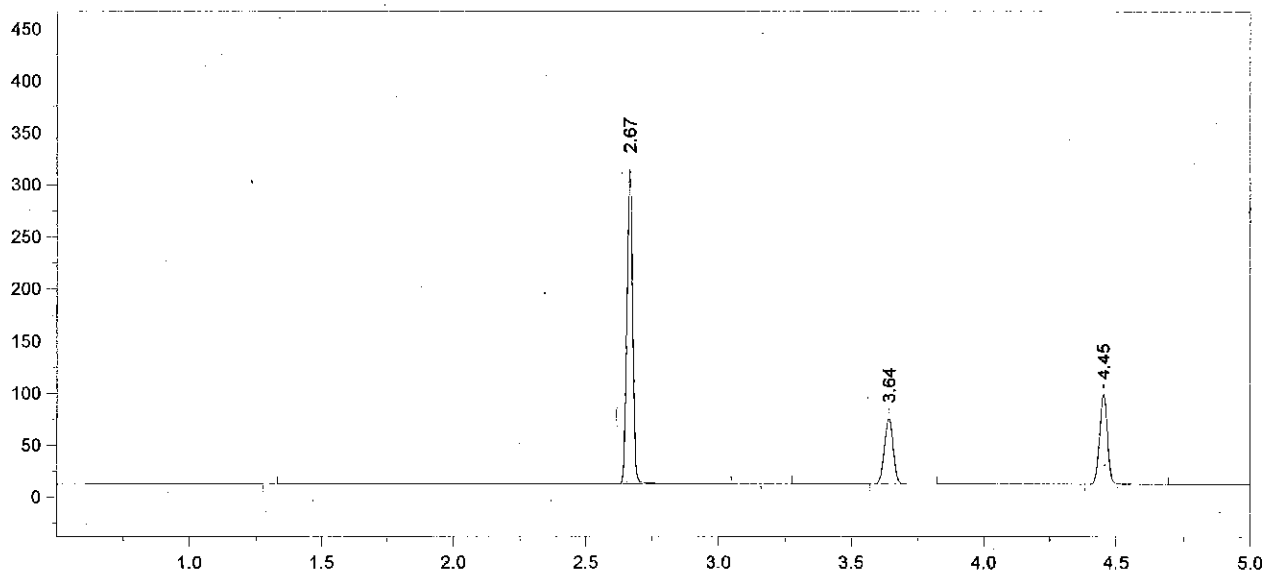
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	78242	0.0847	0.0691
4	3.64	t-Butanol	139269	1.0316	0.8420
5	4.45	n-Propanol	174998	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 9:06:53 AM
Bound File Name = SIM07062012.0121.RAW
Sample Name = ~~ces~~ KW 7/12/12 .40 KW
Date Taken = 7/12/2012 8:44:07 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

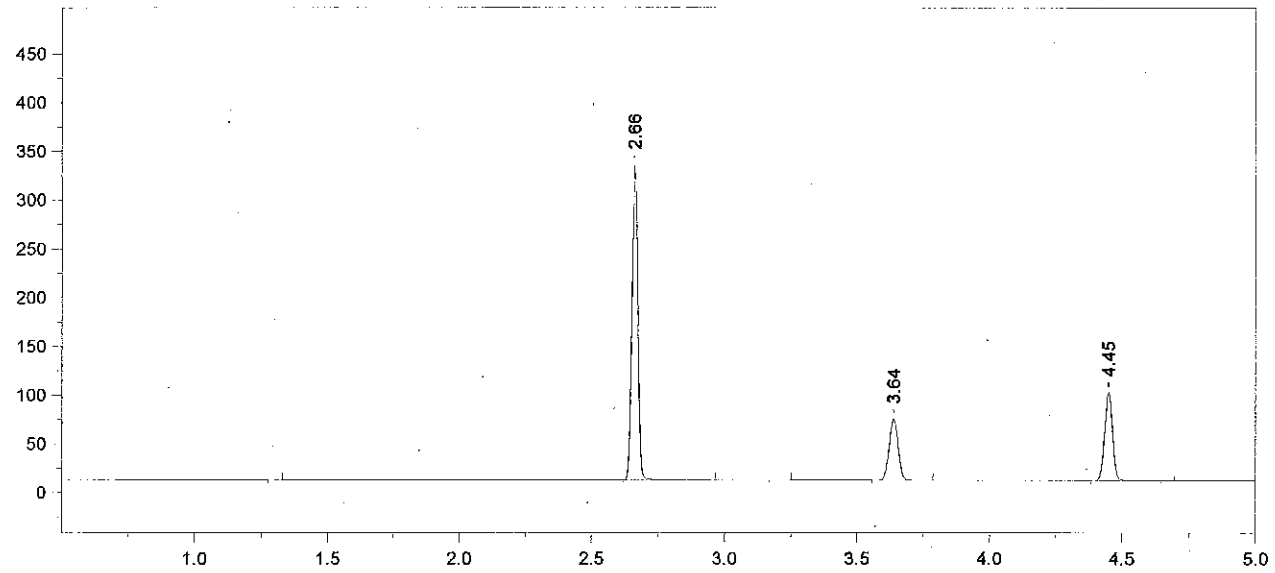
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	496175	0.4891	0.3992
4	3.64	t-Butanol	143858	0.9702	0.7918
5	4.45	n-Propanol	192218	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 9:01:36 AM
Bound File Name = SIM07062012.0122.RAW
Sample Name = ~~CCS~~ KW 7/12/2012 .40KW
Date Taken = 7/12/2012 9:01:25 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

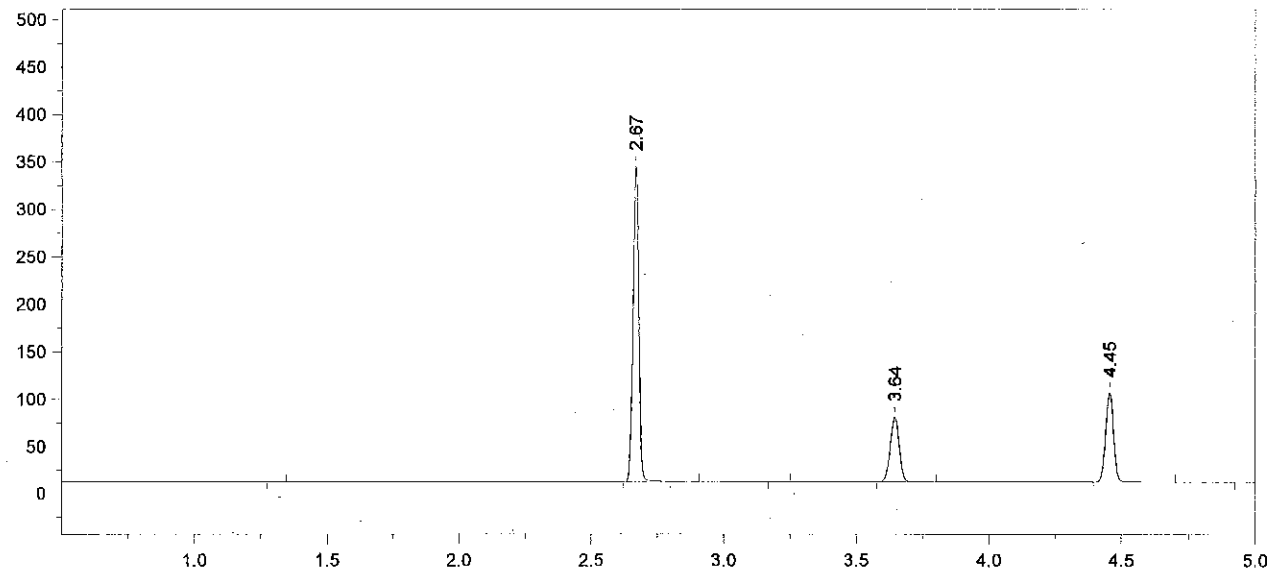
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	457986	0.4756	0.3882
4	3.64	t-Butanol	144616	1.0276	0.8387
5	4.45	n-Propanol	182436	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 9:15:07 AM
Bound File Name = SIM07062012.0123.RAW
Sample Name = ~~ccs~~ KW 7/12/12 .40KW
Date Taken = 7/12/2012 9:15:01 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

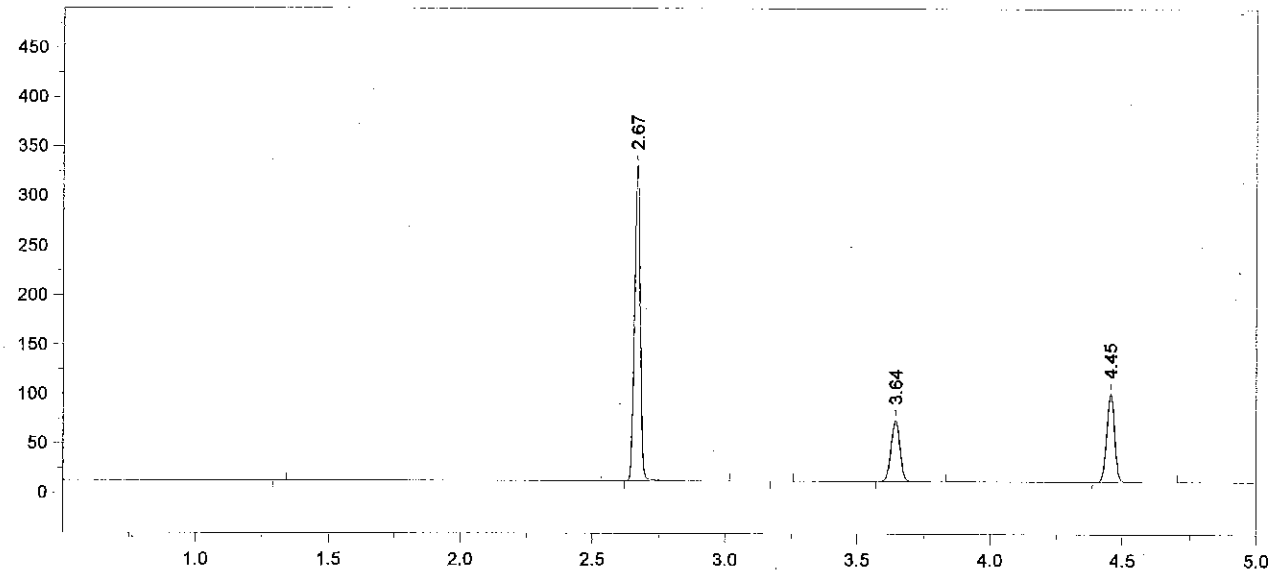
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	489976	0.4857	0.3964
4	3.64	t-Butanol	143975	0.9764	0.7969
5	4.45	n-Propanol	191154	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 9:32:57 AM
Bound File Name = SIM07062012.0124.RAW
Sample Name = ~~CC5~~ KW 7/12/12 .40 KW
Date Taken = 7/12/2012 9:32:49 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

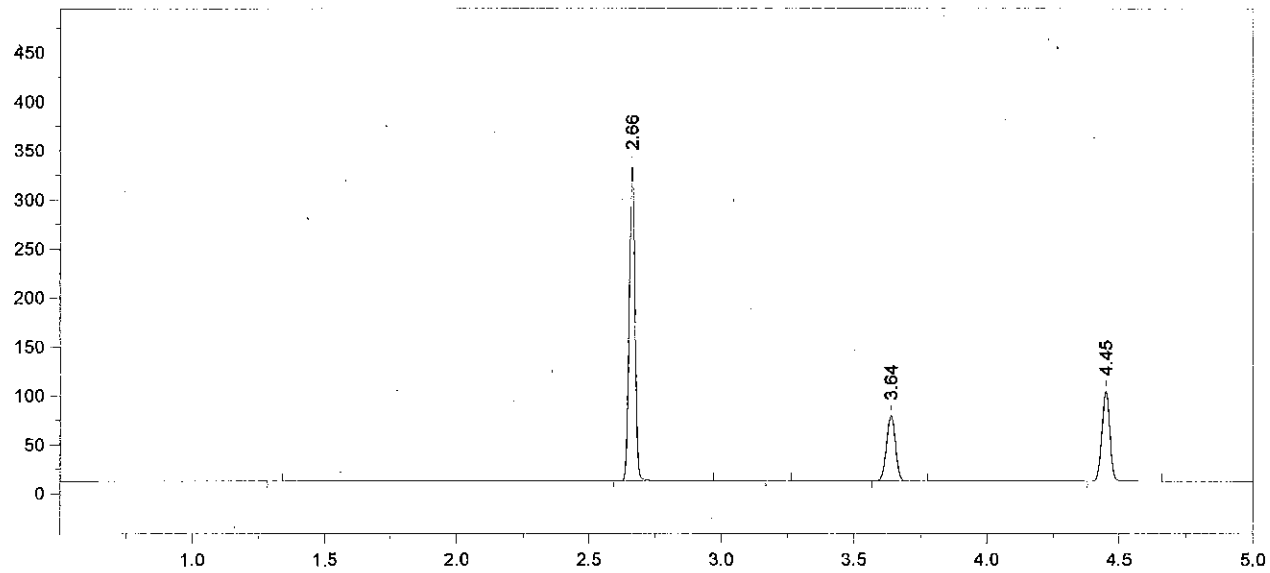
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	504496	0.4778	0.3900
4	3.64	t-Butanol	156799	1.0160	0.8293
5	4.45	n-Propanol	200055	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 9:46:51 AM
Bound File Name = SIM07062012.0125.RAW
Sample Name = ~~CCS~~ KW 7/12/12 .40KW
Date Taken = 7/12/2012 9:46:45 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

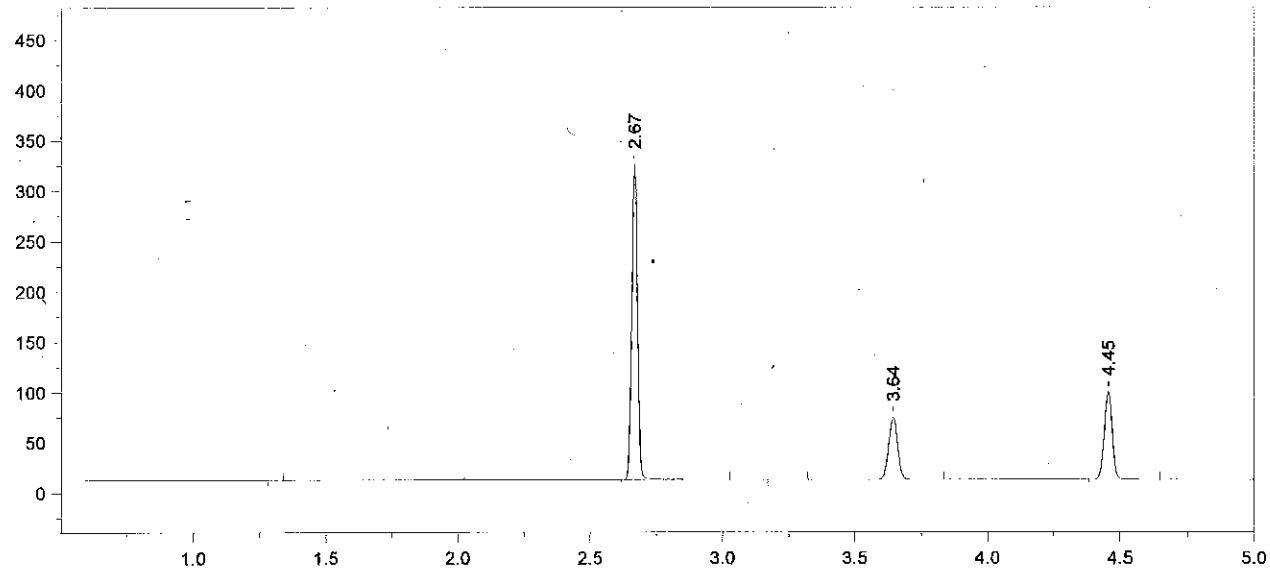
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	487342	0.4893	0.3994
4	3.64	t-Butanol	142332	0.9777	0.7980
5	4.45	n-Propanol	188707	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 10:04:25 AM
Bound File Name = SIM07062012.0126.RAW
Sample Name = ~~.05~~ KW 7/12/12 .40 KW
Date Taken = 7/12/2012 10:04:14 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

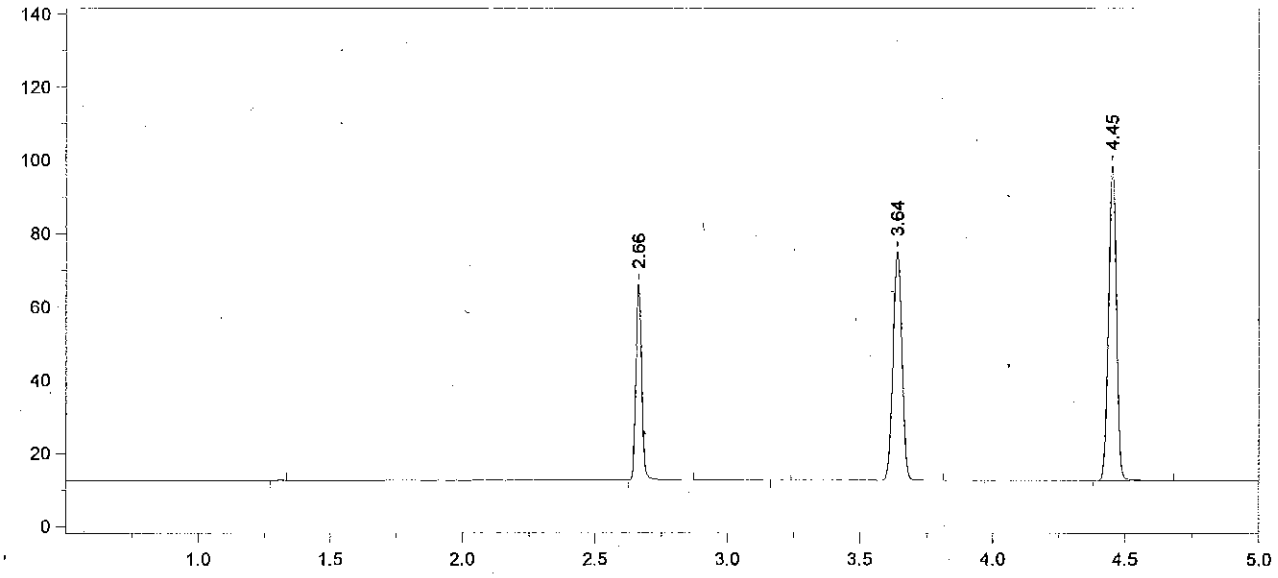
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	486526	0.4749	0.3876
4	3.64	t-Butanol	153687	1.0263	0.8377
5	4.45	n-Propanol	194111	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 10:18:30 AM
Bound File Name = SIM07062012.0127.RAW
Sample Name = ~~CES~~ KW 7/12/12 .40 KW
Date Taken = 7/12/2012 10:18:22 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

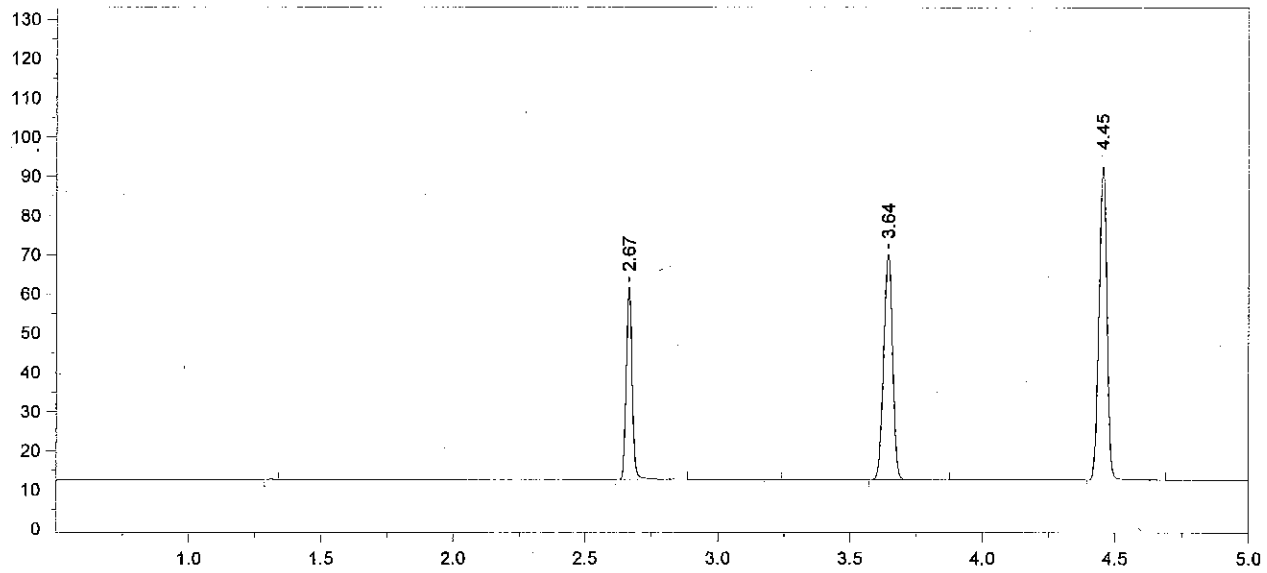
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	479207	0.4892	0.3993
4	3.64	t-Butanol	142054	0.9922	0.8099
5	4.45	n-Propanol	185589	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 10:35:46 AM
Bound File Name = SIM07062012.0128.RAW
Sample Name = CCS
Date Taken = 7/12/2012 10:35:41 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	82060	0.0851	0.0695
4	3.64	t-Butanol	144175	1.0233	0.8352
5	4.45	n-Propanol	182643	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 10:49:46 AM
Bound File Name = SIM07062012.0129.RAW
Sample Name = CCS
Date Taken = 7/12/2012 10:49:36 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	75975	0.0849	0.0693
4	3.64	t-Butanol	132897	1.0165	0.8297
5	4.45	n-Propanol	169480	1.0000	0.8162