Vermont Department of Health Laboratory
Toxicology Program

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Certificate of Analysis of DataMaster Calibration Solution

On 7/1/2009, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster Calibration solution. The solution was prepared per standard laboratory practice and assigned the lot number 10-02-100 and an expiration date of 7/1/2010.

On 7/1/2009 and 7/9/2009, the solution was analyzed by Darcy Richardson and Amanda Bolduc. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated on the day analyses were begun. 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 0.101 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Calibration solution.

Dated at Burlington, Vermont on Monday, July 20, 2009.

Darcy Richardson

Lot # 10-02-100

Prepared by ALB
Prepared on 7/1/2009
Expires on 7/1/2010

Analyzed on 7/1/09, 7/9/09
analyzed by DMR and ALB

0.1003	0.1042	**Target**	**0.101**
0.1024	0.1011	Std Dev	0.001207
0.1000	0.1004		
0.0999	0.1012		
0.0997	0.0997		
0.1000	0.1007		
0.0992	0.1009		
0.1006	0.1017		
0.1010	0.0991		
0.0995	0.1009		
0.0997	0.1028		
0.1002	0.1019		
0.1004	0.1008		
0.0981	0.0984	analyzed 7/16/09 by DMR + ALB	
0.1001	**0.1010**	mean	
0.000962	0.001452	std dev	

File Name: C:\Methods\BloodAlcohol4.cal
Version: 23

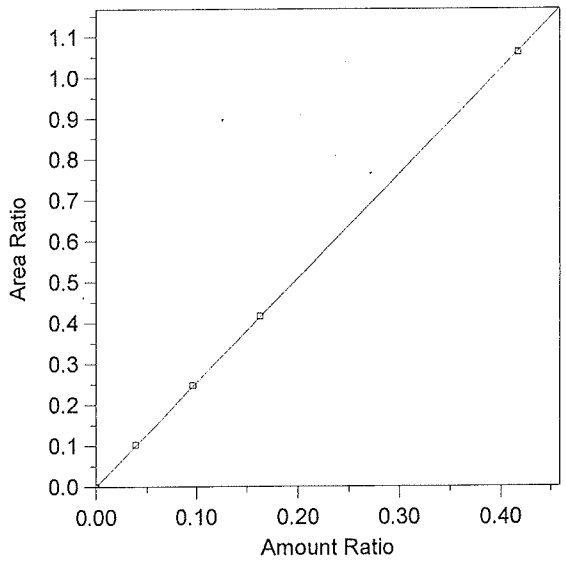
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 5000
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: 2.696 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

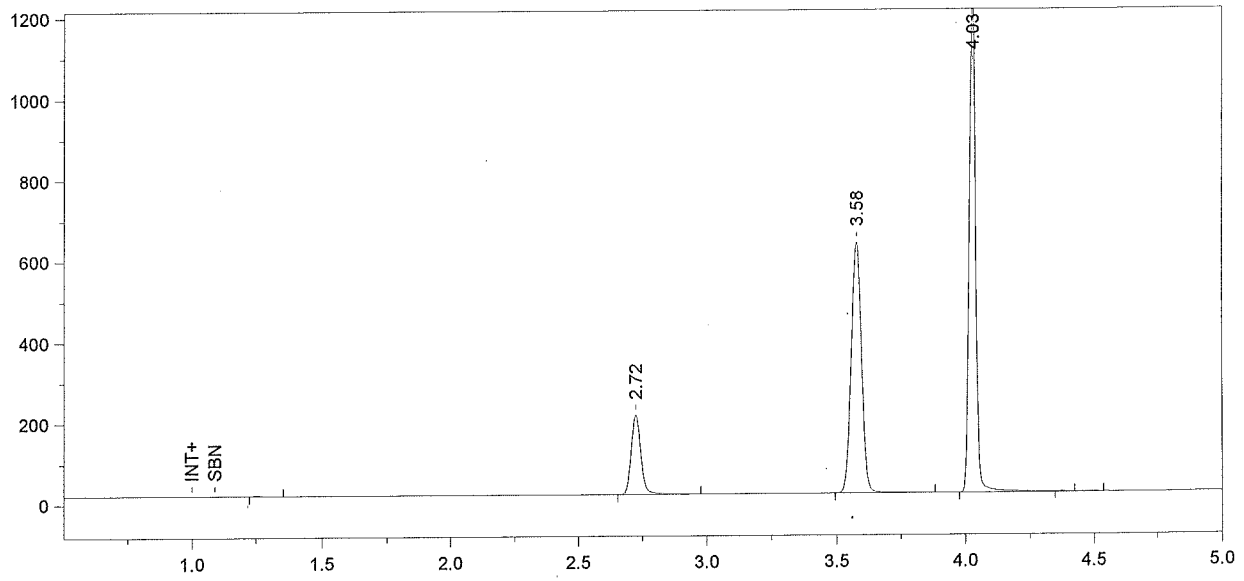
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 2.54777 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999607
Average error: 1.098%
Average CF: 2.064682
RSD: 55.933%

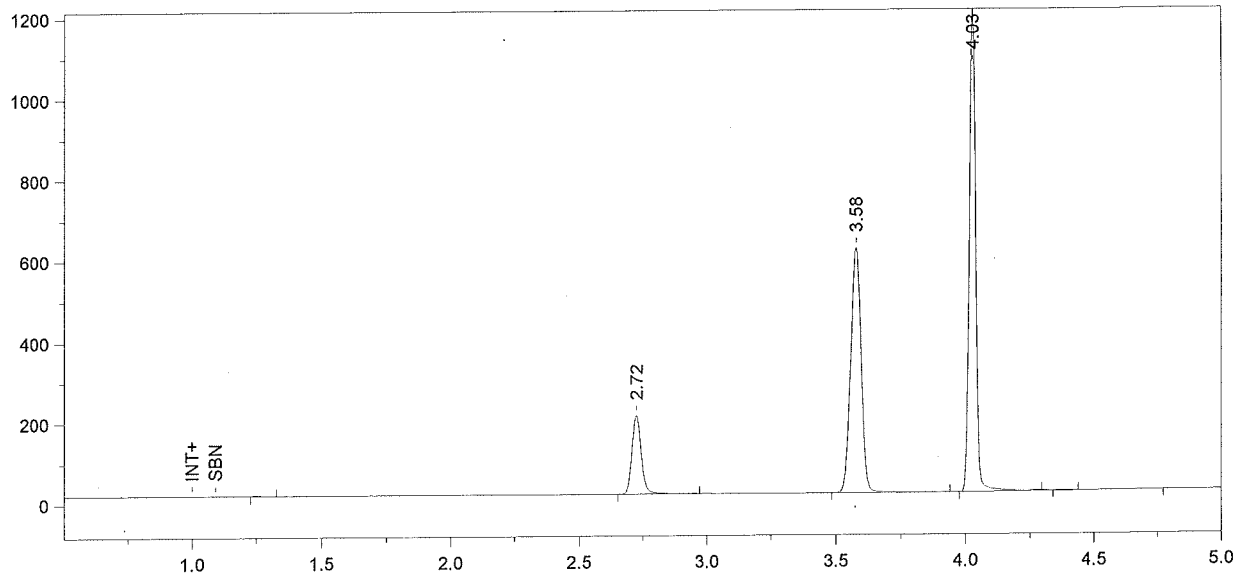
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.039	221888.5	5689449	3.779	0.039	0.1031175	C:\Alcohol Data\Alc070109\Alc070109.0003.BND	7/2/2009 3:02:22 PM
3	0.096	530918.8	5530404	1.245	0.096	0.2476308	C:\Alcohol Data\Alc070109\Alc070109.0004.BND	7/2/2009 3:02:29 PM
4	0.163	882969.3	5416990	0.318	0.163	0.4166079	C:\Alcohol Data\Alc070109\Alc070109.0005.BND	7/2/2009 3:02:36 PM
5	0.417	2249794	5395190	-0.148	0.417	1.060851	C:\Alcohol Data\Alc070109\Alc070109.0006.BND	7/2/2009 3:02:46 PM



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:01 PM
Bound File Name = Alc070109.0028.RAW
Sample Name = CCS
Date Taken = 7/1/2009 11:20:42 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

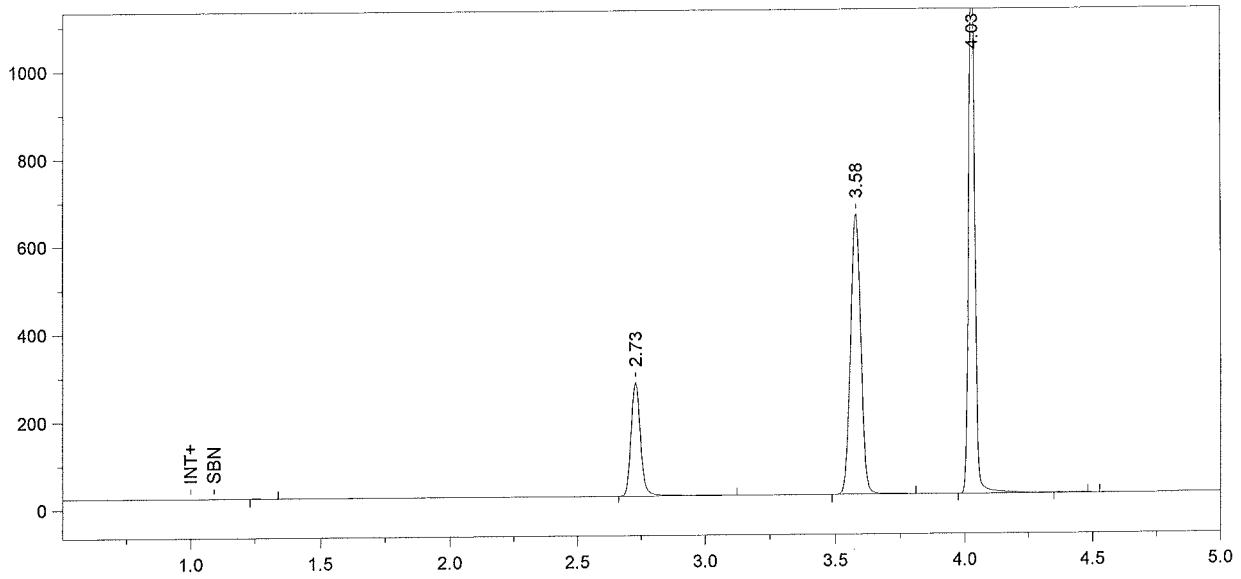
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.72	Ethanol	510570	0.0952
3	3.58	t-Butanol	1700606	0.9913
4	4.03	n-Propanol	2104972	1.0000



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:05 PM
Bound File Name = Alc070109.0029.RAW
Sample Name = CCS
Date Taken = 7/1/2009 11:35:42 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.72	Ethanol	503740	0.0962
3	3.58	t-Butanol	1655757	0.9886
4	4.03	n-Propanol	2055001	1.0000



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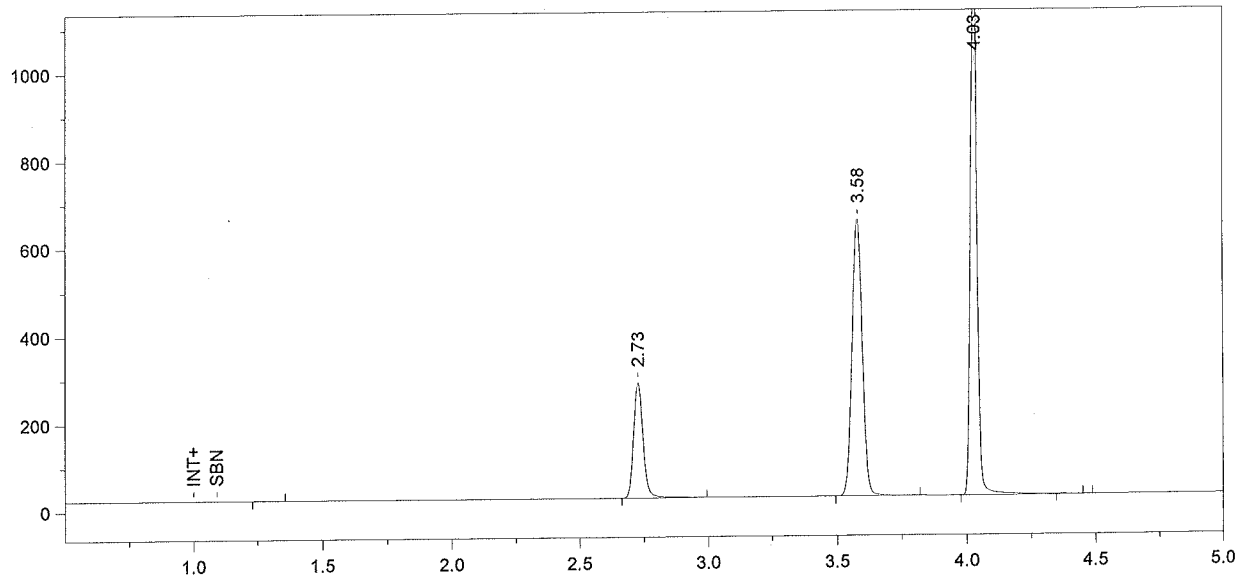
Today's Date = 7/2/2009
Today's Time = 3:06:10 PM
Bound File Name = Alc070109.0030.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/1/2009 11:50:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

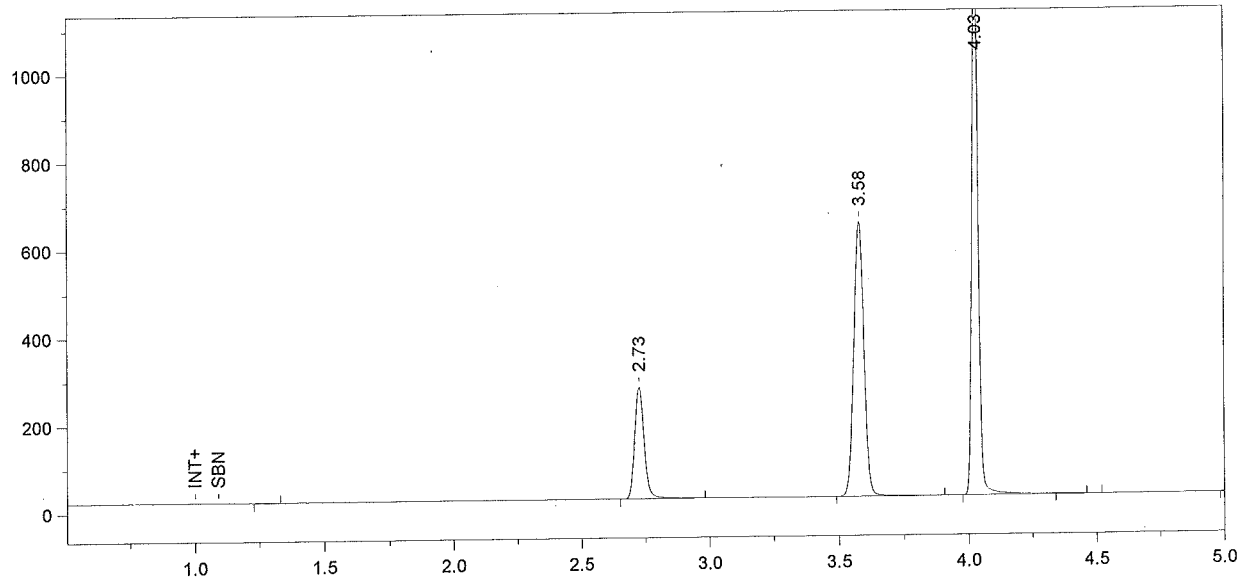
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	675510	0.1229	0.1003
3	3.58	t-Butanol	1752721	0.9969	0.8137
4	4.03	n-Propanol	2157314	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:15 PM
Bound File Name = Alc070109.0031.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/2/2009 12:05:55 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	682185	0.1255	0.1024
3	3.58	t-Butanol	1737888	0.9994	0.8157
4	4.03	n-Propanol	2133636	1.0000	0.8162



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Today's Date = 7/2/2009
Today's Time = 3:06:19 PM
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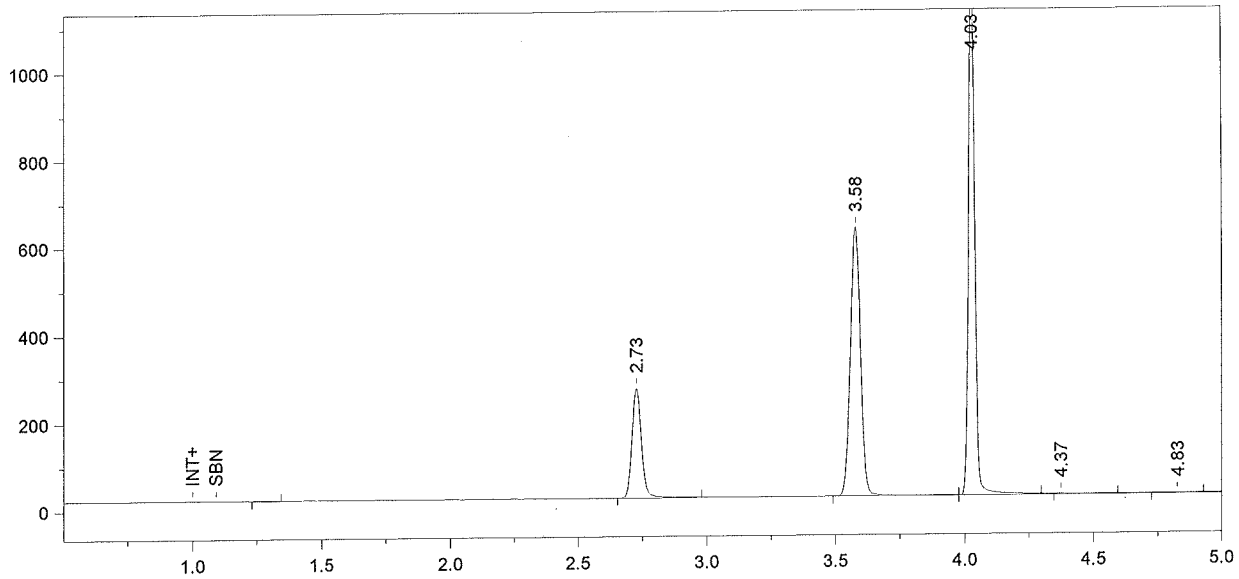
Sample Name = 0.10 Cal DMR
Date Taken = 7/2/2009 12:20:56 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

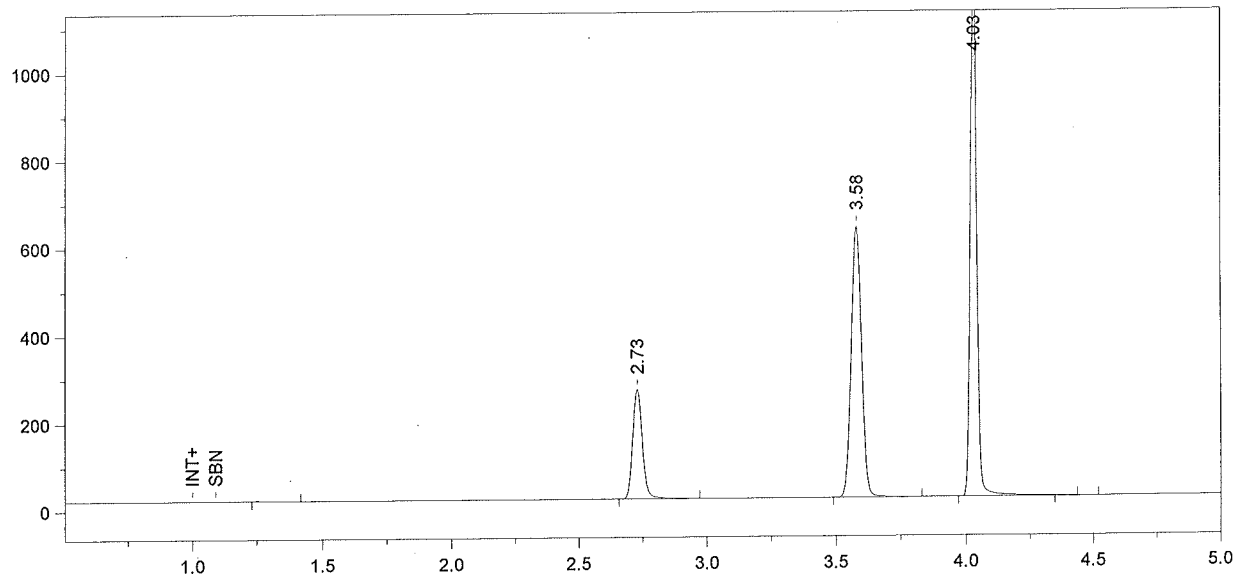
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	661589	0.1225	0.1000
3	3.58	t-Butanol	1717430	0.9943	0.8116
4	4.03	n-Propanol	2119267	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:24 PM
Bound File Name = Alc070109.0033.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/2/2009 12:35:45 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	646223	0.1223	0.0999
3	3.58	t-Butanol	1684172	0.9967	0.8135
4	4.03	n-Propanol	2073318	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 3:06:28 PM
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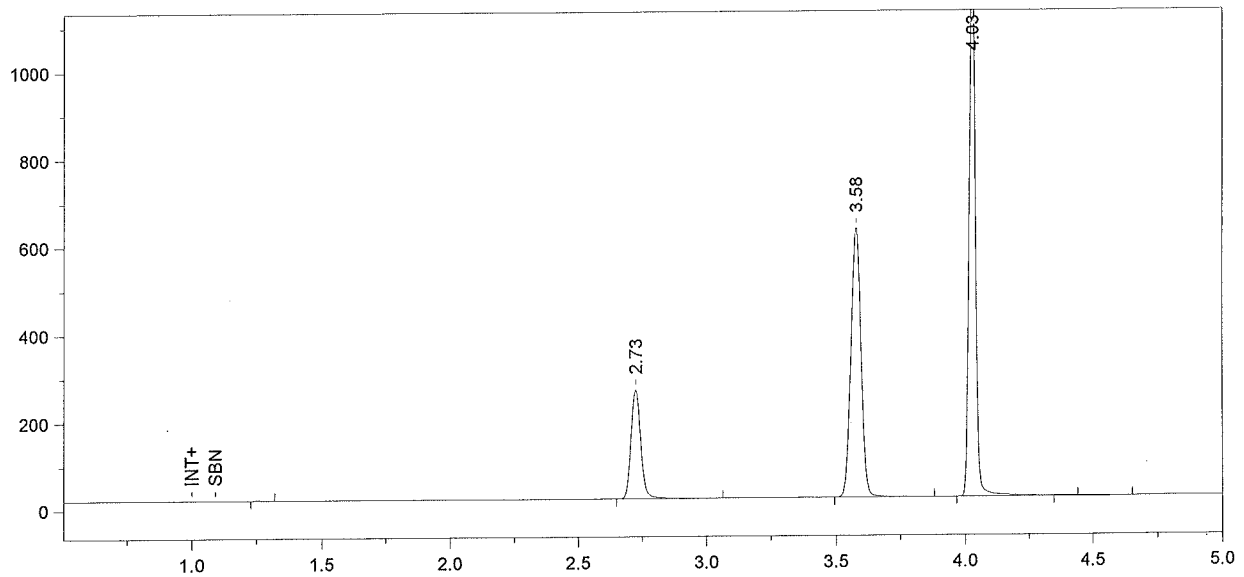
Sample Name = 0.10 Cal DMR
Date Taken = 7/2/2009 12:50:46 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

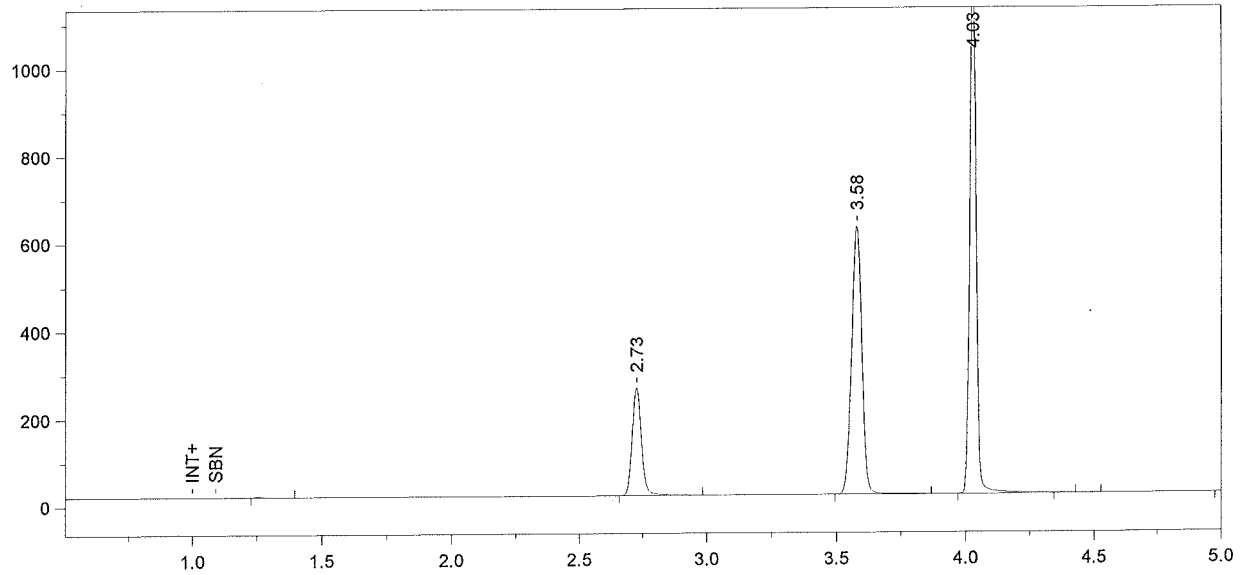
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	649466	0.1221	0.0997
3	3.58	t-Butanol	1687145	0.9919	0.8096
4	4.03	n-Propanol	2086953	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:33 PM
Bound File Name = Alc070109.0035.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/2/2009 1:05:46 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	648688	0.1225	0.1000
3	3.58	t-Butanol	1680223	0.9917	0.8094
4	4.03	n-Propanol	2078833	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 3:06:37 PM
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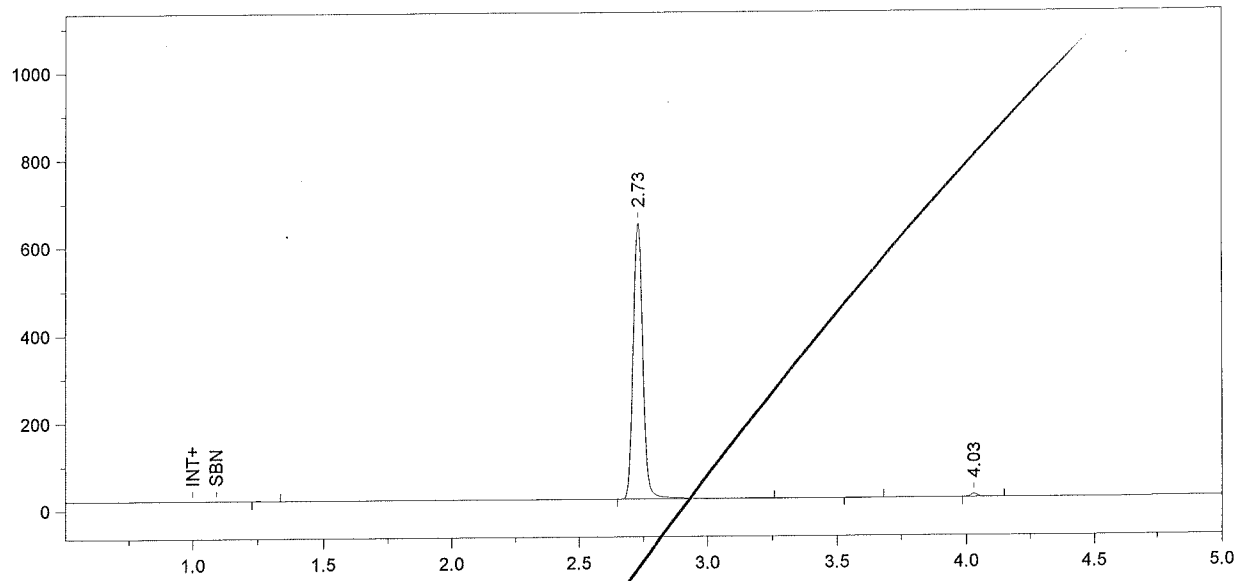
Sample Name = 0.10 Cal DMR
Date Taken = 7/2/2009 1:20:47 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	636720	0.1215	0.0992
3	3.58	t-Butanol	1673997	0.9986	0.8151
4	4.03	n-Propanol	2056840	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:42 PM
Bound File Name = Alc070109.0037.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 1:35:50 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	1644799	43.3111	35.3506
4	4.03	n-Propanol	14906	1.0000	0.8162

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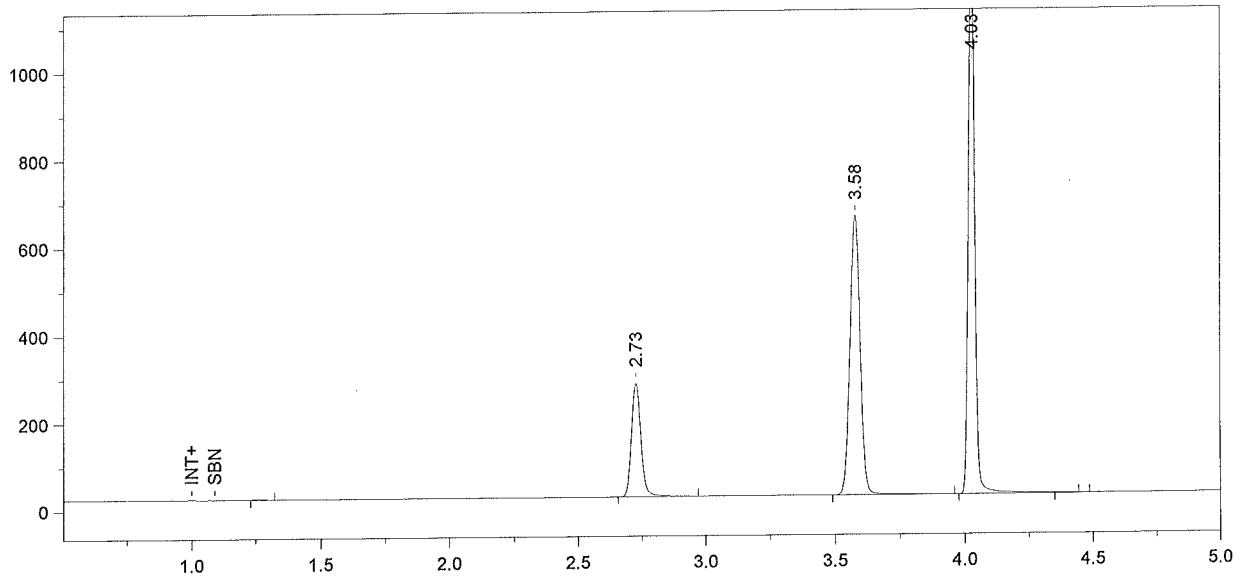
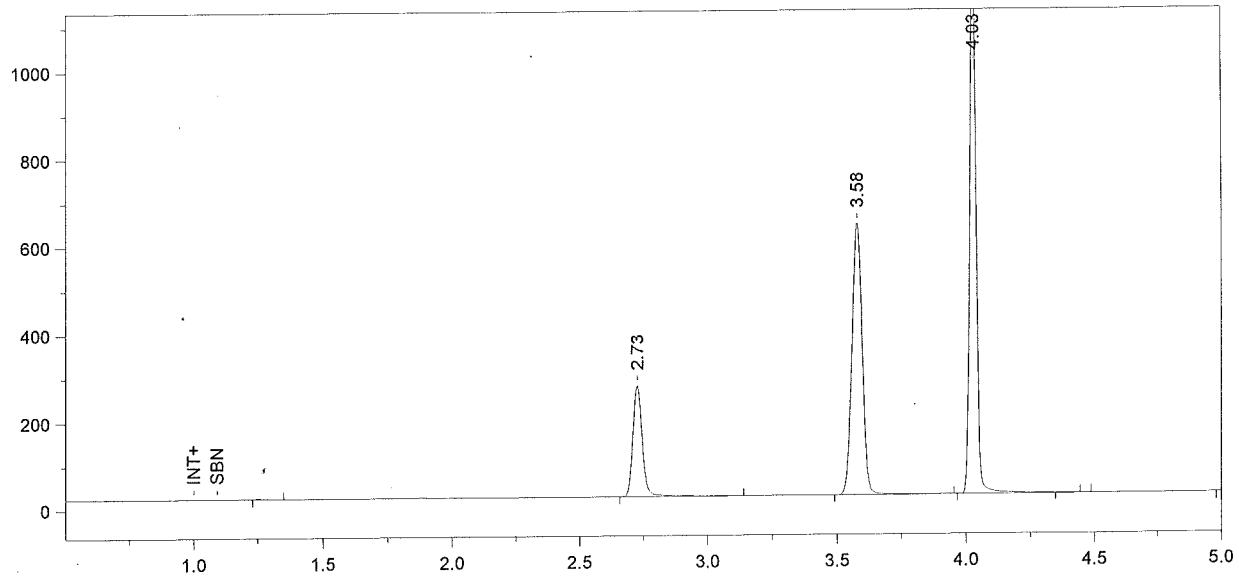


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:46 PM
Bound File Name = Alc070109.0038.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 1:50:52 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	674652	0.1233	0.1006
3	3.58	t-Butanol	1752876	1.0016	0.8175
4	4.03	n-Propanol	2147402	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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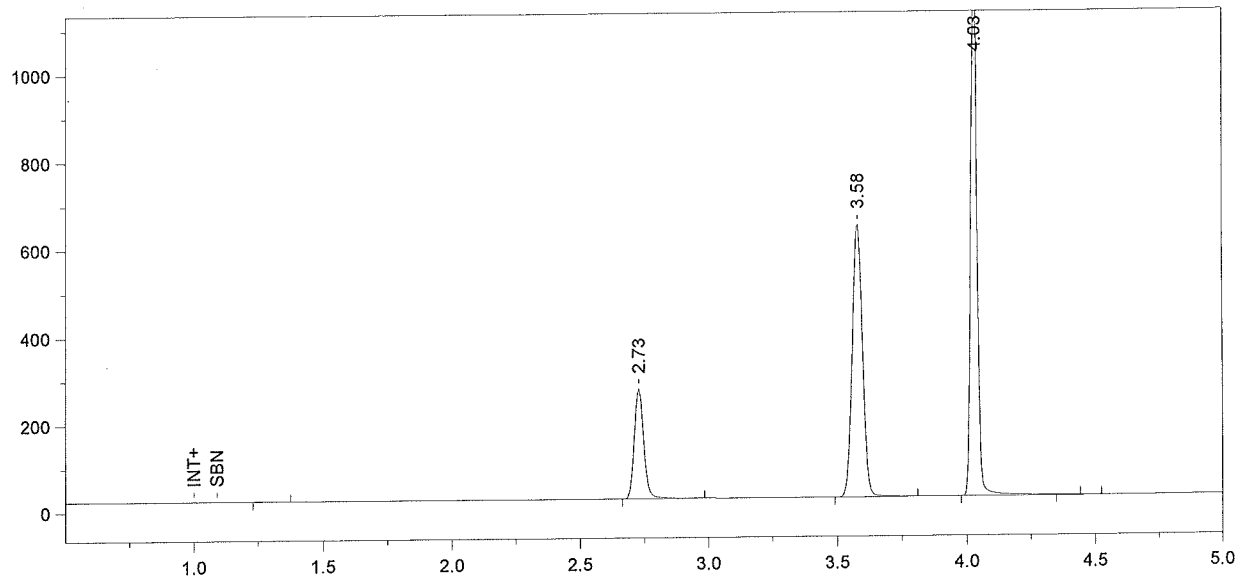
Today's Time = 3:06:51 PM
Bound File Name = Alc070109.0039.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 2:05:52 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

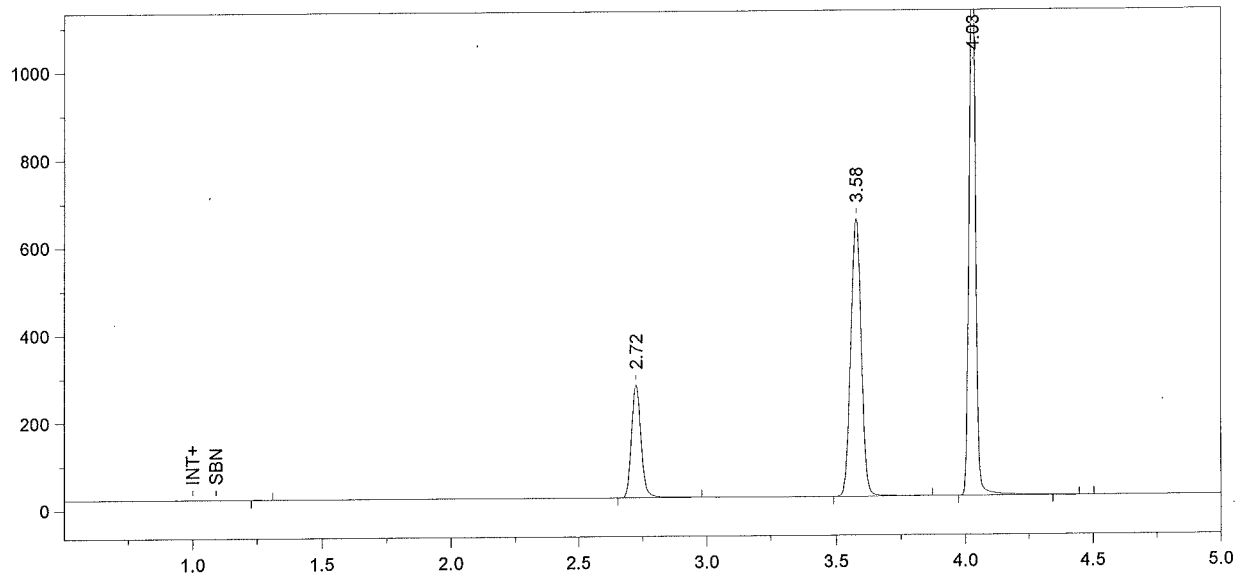
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	661397	0.1237	0.1010
3	3.58	t-Butanol	1699360	0.9938	0.8111
4	4.03	n-Propanol	2098133	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:06:56 PM
Bound File Name = Alc070109.0040.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 2:20:54 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

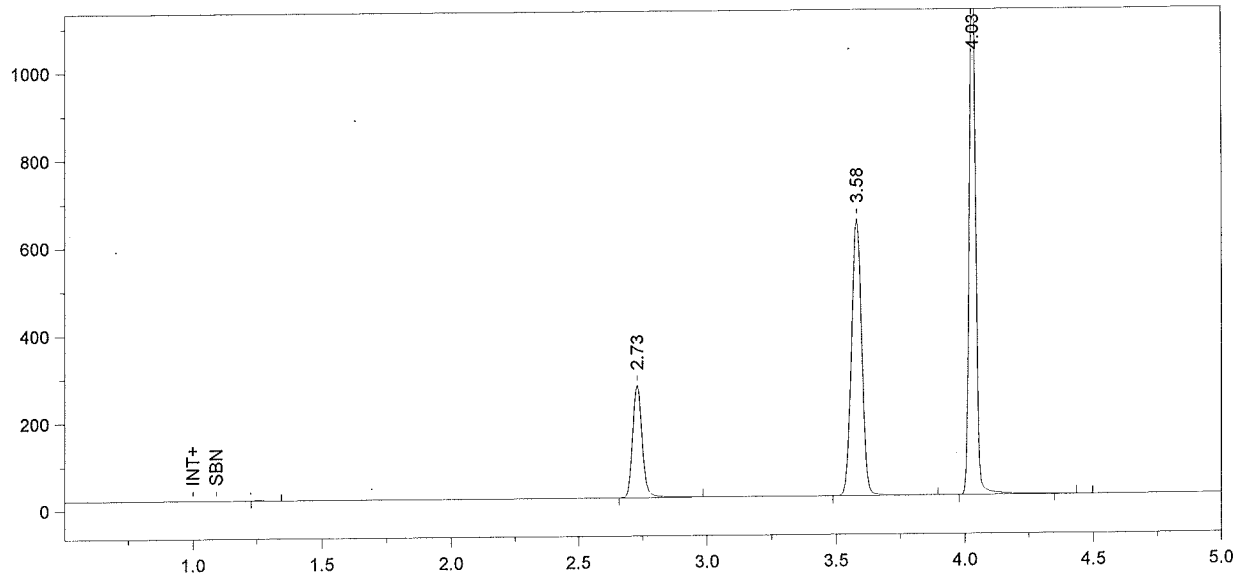
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	651143	0.1220	0.0995
3	3.58	t-Butanol	1700330	0.9956	0.8126
4	4.03	n-Propanol	2095441	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:07:00 PM
Bound File Name = Alc070109.0041.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 2:35:54 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

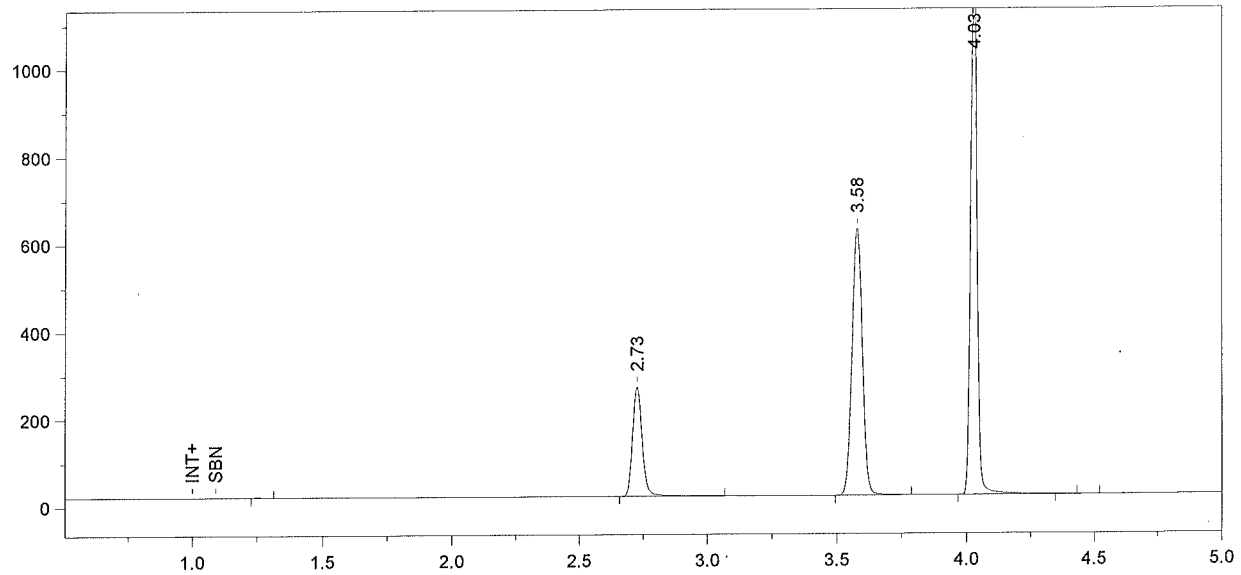
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.72	Ethanol	668016	0.1222	0.0997
3	3.58	t-Butanol	1745219	0.9977	0.8144
4	4.03	n-Propanol	2146208	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:07:05 PM
Bound File Name = Alc070109.0042.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 2:50:54 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	662106	0.1227	0.1002
3	3.58	t-Butanol	1723775	0.9988	0.8153
4	4.03	n-Propanol	2117507	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 3:07:09 PM
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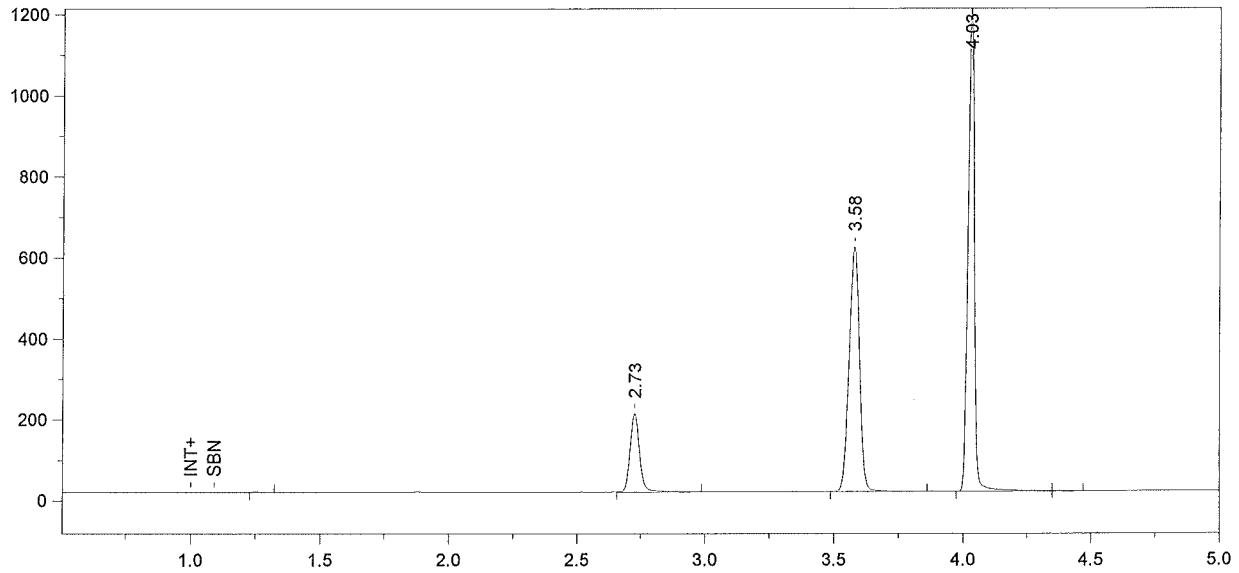
Sample Name = 0.10 Cal HXB
Date Taken = 7/2/2009 3:06:06 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

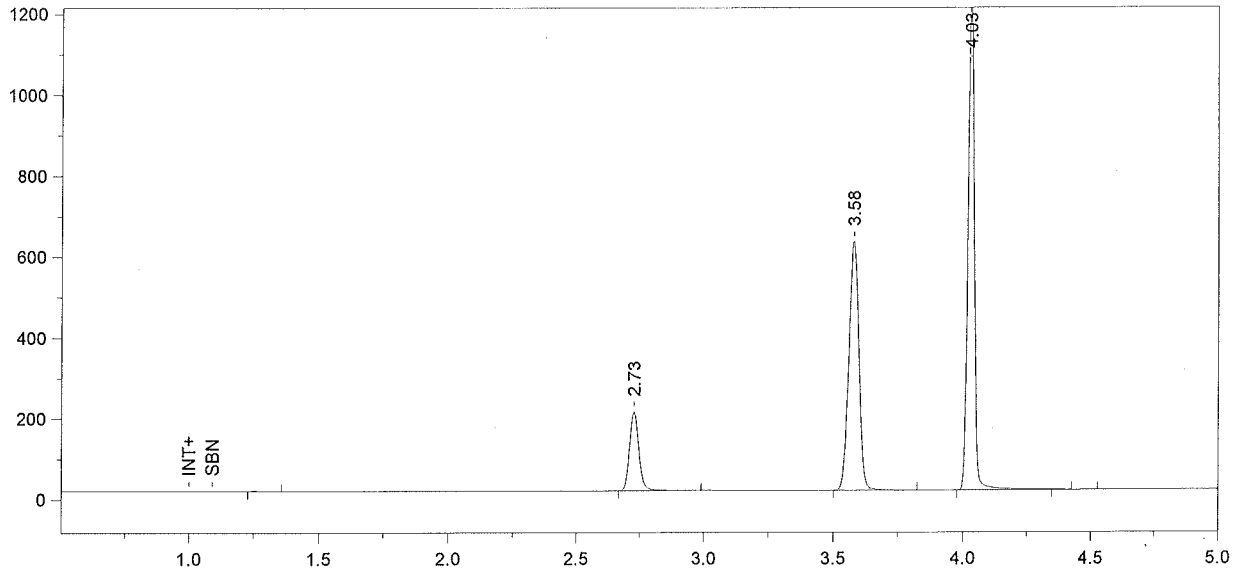
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.73	Ethanol	651439	0.1230	0.1004
3	3.58	t-Butanol	1678804	0.9906	0.8086
4	4.03	n-Propanol	2079349	1.0000	0.8162



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:07:14 PM
Bound File Name = Alc070109.0044.RAW
Sample Name = CCS
Date Taken = 7/2/2009 3:21:07 AM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.73	Ethanol	502604	0.0957
3	3.58	t-Butanol	1656913	0.9867
4	4.03	n-Propanol	2060340	1.0000



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/2/2009
Today's Time = 3:07:18 PM
Bound File Name = Alc070109.0045.RAW
Sample Name = CCS
Date Taken = 7/2/2009 3:35:58 AM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 23

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.73	Ethanol	504792	0.0948
3	3.58	t-Butanol	1688639	0.9915
4	4.03	n-Propanol	2089667	1.0000

C:\Methods\BloodAlcohol4.cal
28

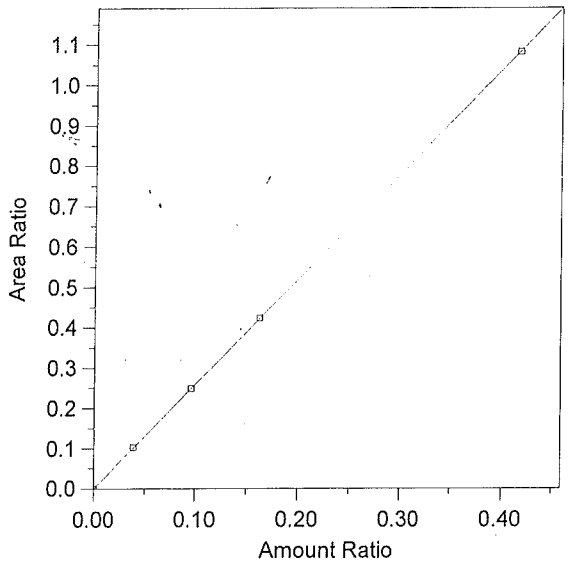
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 5000
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:	2.707 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

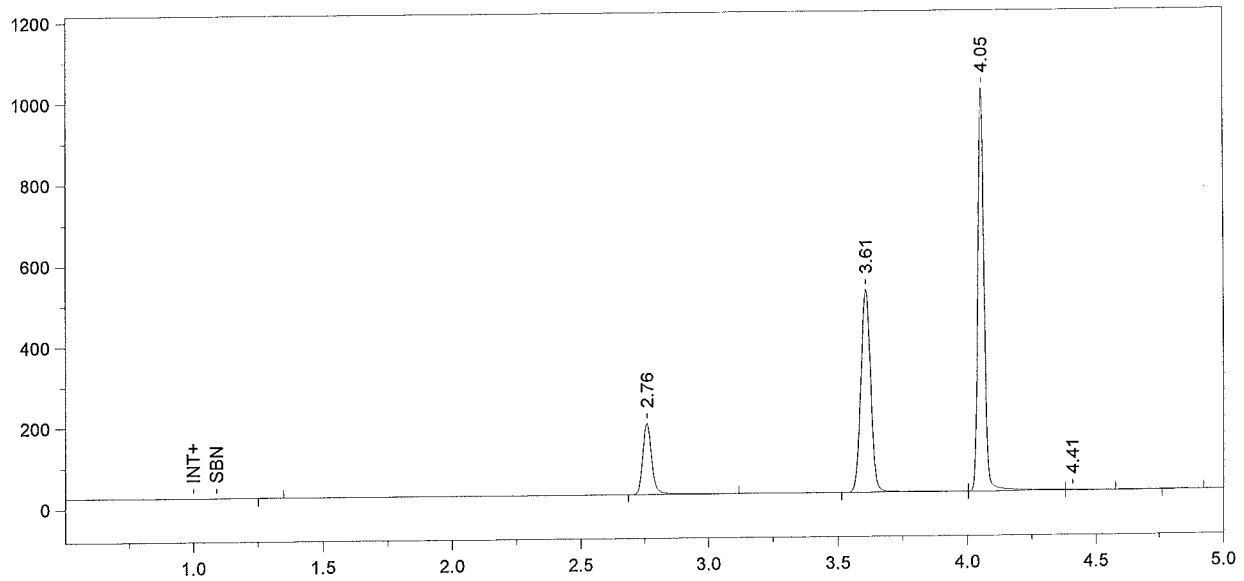
Single peak quantification by area

Y = 2.595215 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999964
Average error:	0.329%
Average CF:	2.084289
RSD:	55.906%

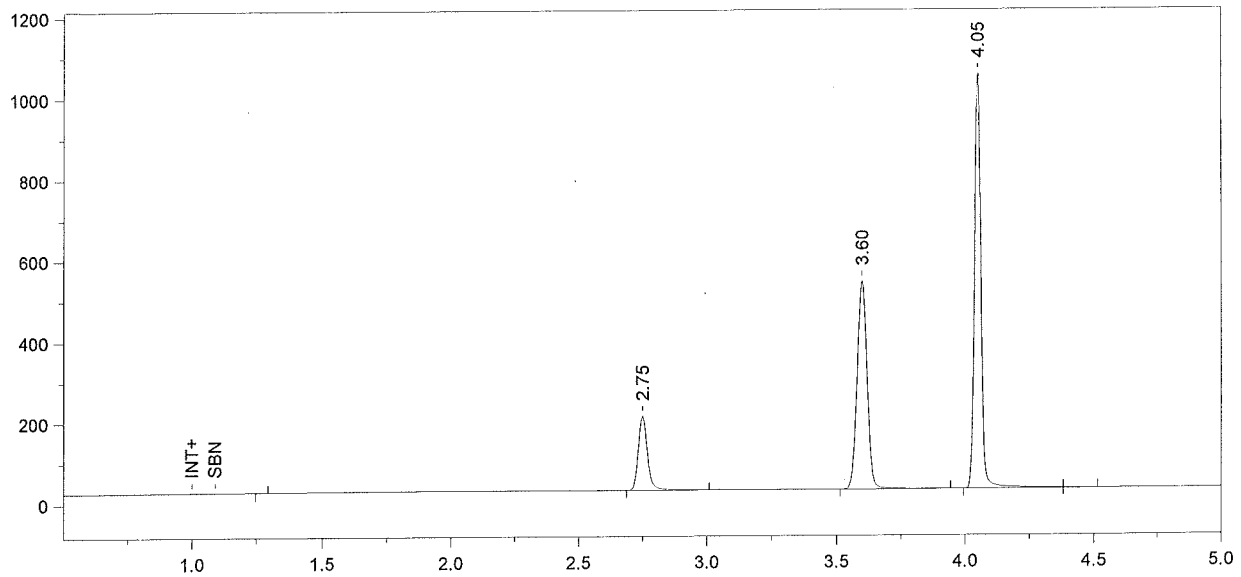
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.039	214370.2	5496672	1.378	0.039	0.1026085	C:\Alcohol Data\Alc070709\Alc070709.0003.BND	7/7/2009 12:19:01 PM
3	0.096	517321.4	5388765	0.062	0.096	0.2492951	C:\Alcohol Data\Alc070709\Alc070709.0004.BND	7/7/2009 12:31:53 PM
4	0.163	886464.6	5438433	0.164	0.163	0.4237137	C:\Alcohol Data\Alc070709\Alc070709.0005.BND	7/7/2009 12:44:28 PM
5	0.417	2261146	5422413	-0.040	0.417	1.081767	C:\Alcohol Data\Alc070709\Alc070709.0006.BND	7/7/2009 12:56:13 PM



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 3:06:40 PM
Bound File Name = Sim070909.0001.RAW
Sample Name = CCS
Date Taken = 7/9/2009 3:06:30 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

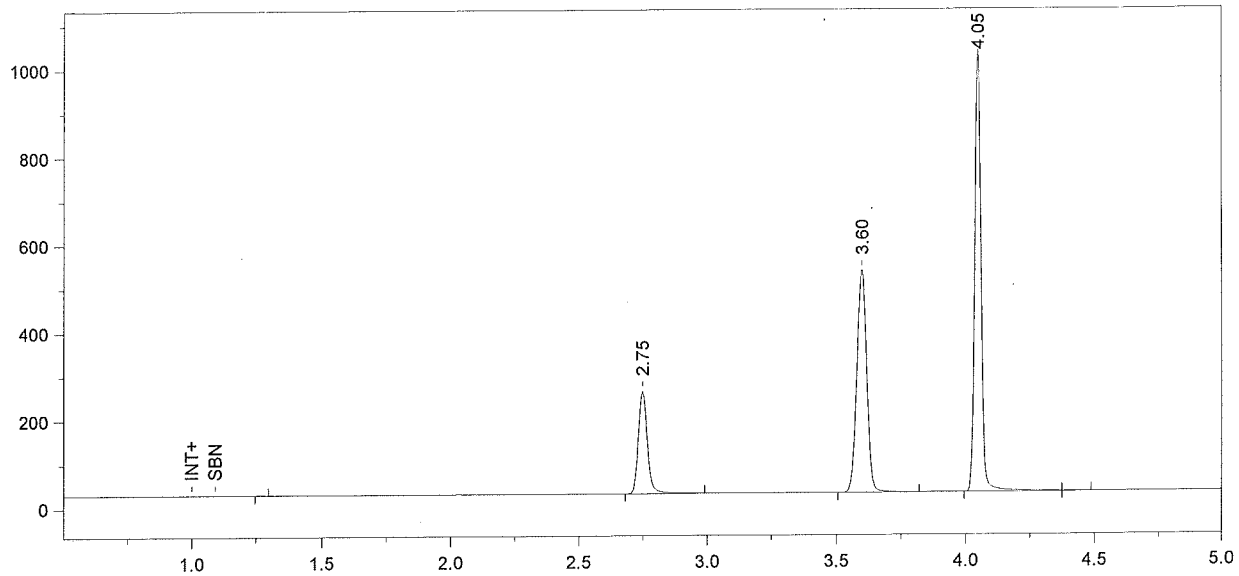
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.76	Ethanol	436078	0.0985
3	3.61	t-Butanol	1336068	0.9625
4	4.05	n-Propanol	1705085	1.0000



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 3:21:25 PM
Bound File Name = Sim070909.0002.RAW
Sample Name = CCS
Date Taken = 7/9/2009 3:21:19 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

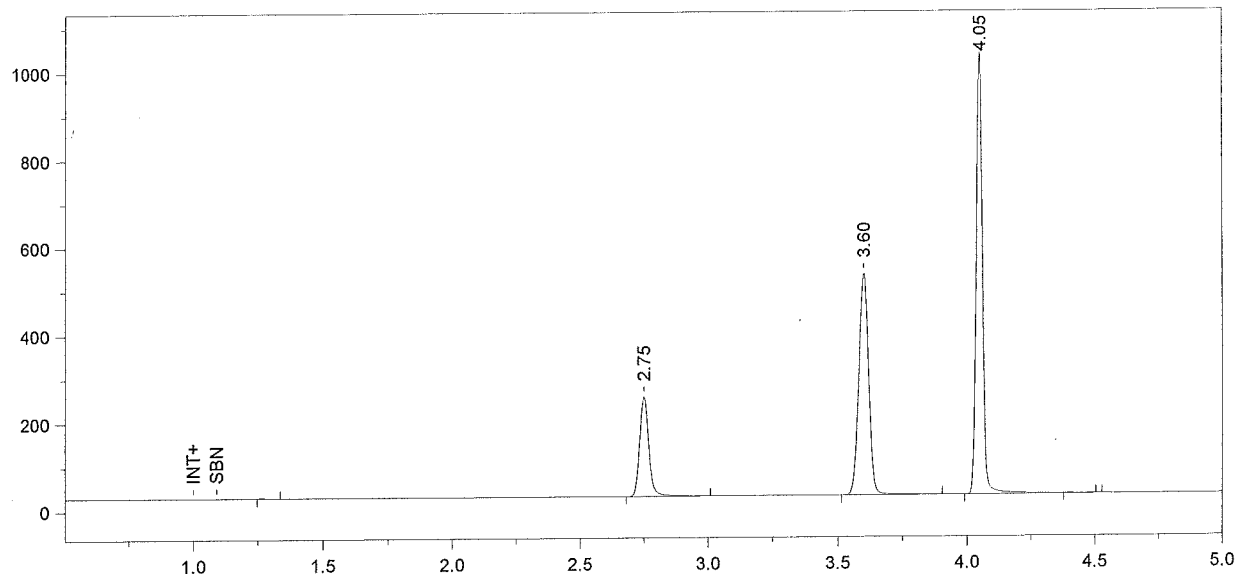
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.75	Ethanol	451453	0.0983
3	3.60	t-Butanol	1375965	0.9551
4	4.05	n-Propanol	1769708	1.0000



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 3:36:25 PM
Bound File Name = Sim070909.0003.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 3:36:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

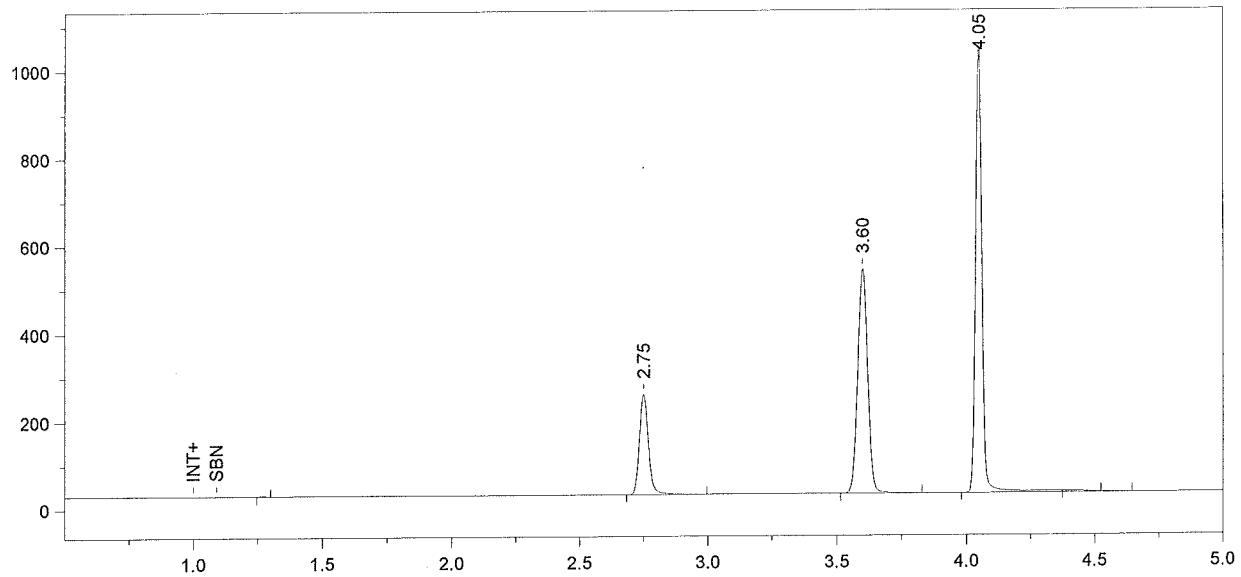
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	574083	0.1276	0.1042
3	3.60	t-Butanol	1355748	0.9609	0.7843
4	4.05	n-Propanol	1733069	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 3:51:29 PM
Bound File Name = Sim070909.0004.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 3:51:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

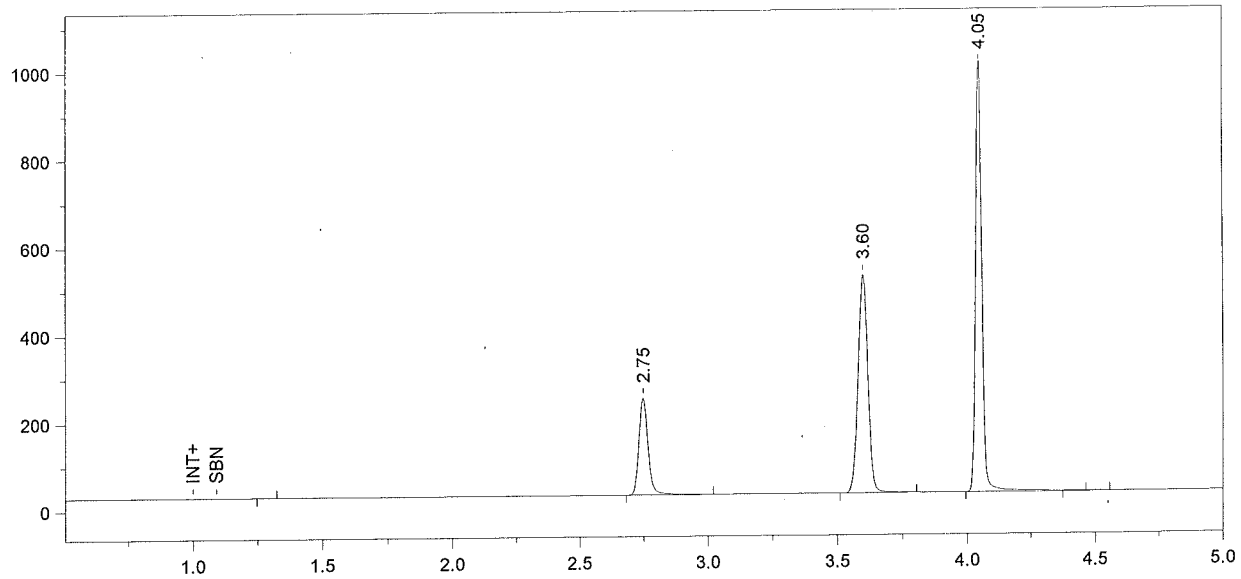
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	558958	0.1238	0.1011
3	3.60	t-Butanol	1352490	0.9553	0.7797
4	4.05	n-Propanol	1739107	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 4:06:30 PM
Bound File Name = Sim070909.0005.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 4:06:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

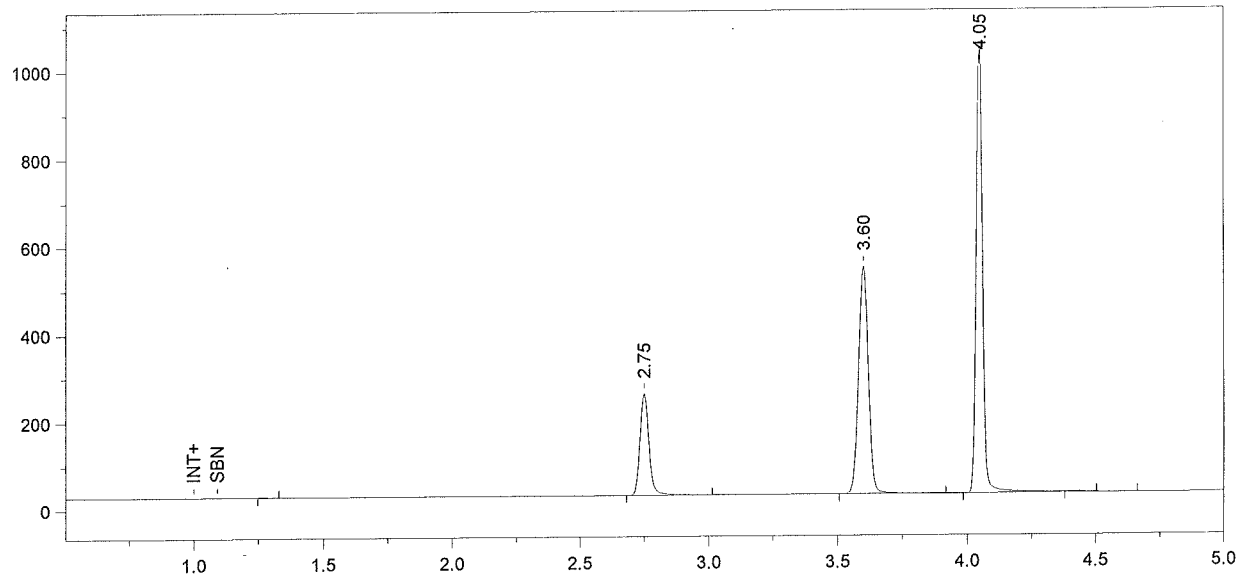
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	563768	0.1230	0.1004
3	3.60	t-Butanol	1370300	0.9528	0.7776
4	4.05	n-Propanol	1766680	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 4:21:31 PM
Bound File Name = Sim070909.0006.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 4:21:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

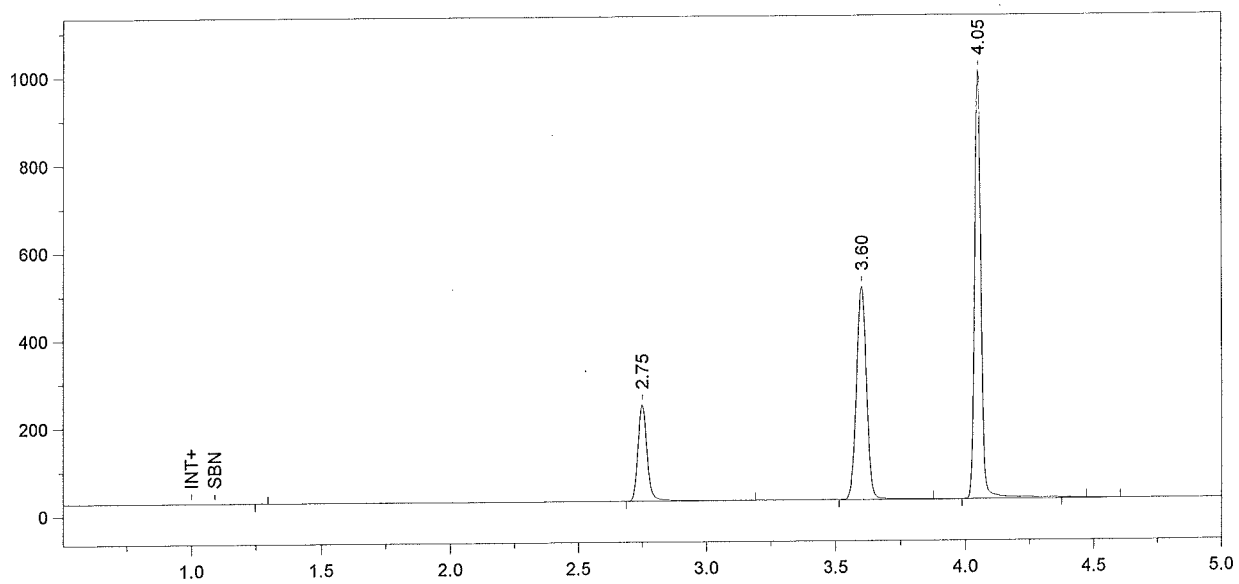
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	544758	0.1240	0.1012
3	3.60	t-Butanol	1326432	0.9624	0.7855
4	4.05	n-Propanol	1693001	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 4:36:38 PM
Bound File Name = Sim070909.0007.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 4:36:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

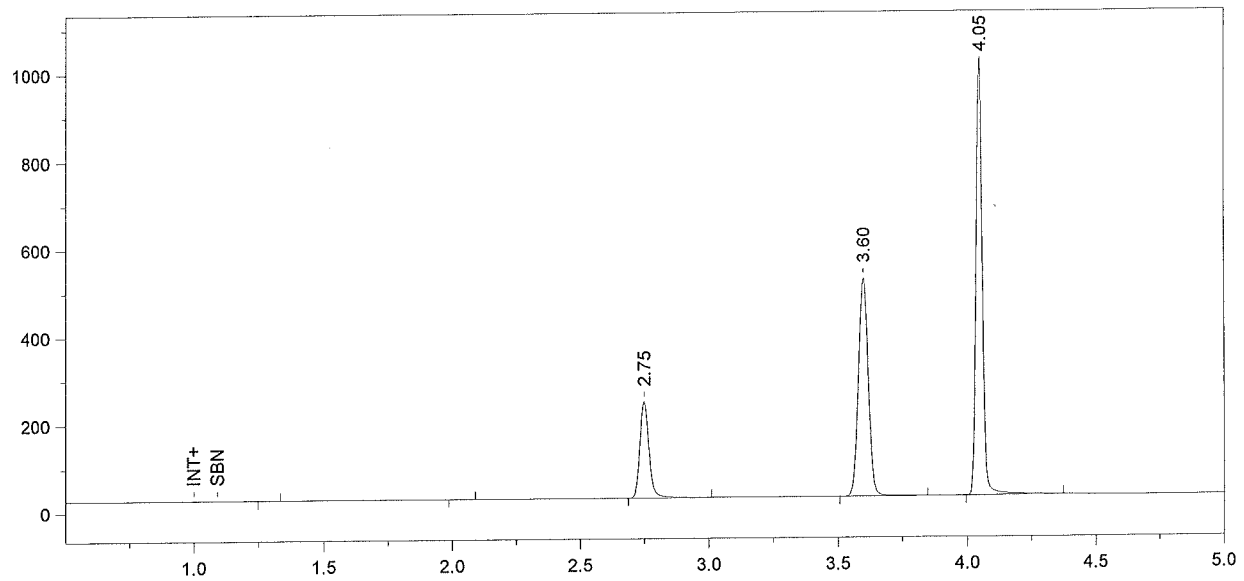
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	570900	0.1221	0.0997
3	3.60	t-Butanol	1388348	0.9467	0.7727
4	4.05	n-Propanol	1801453	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 4:51:44 PM
Bound File Name = Sim070909.0008.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 4:51:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

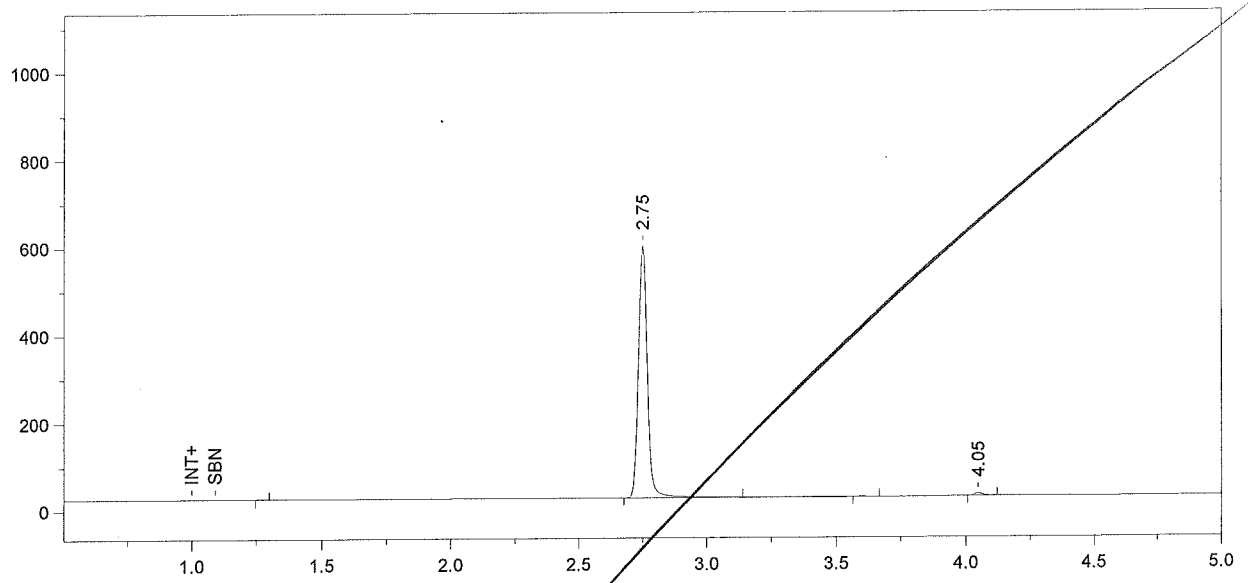
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	548115	0.1234	0.1007
3	3.60	t-Butanol	1305305	0.9367	0.7645
4	4.05	n-Propanol	1711708	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 5:06:30 PM
Bound File Name = Sim070909.0009.RAW
Sample Name = 0.10 Cal DMR
Date Taken = 7/9/2009 5:06:26 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.75	Ethanol	542831	0.1237	0.1009
4	3.60	t-Butanol	1329578	0.9656	0.7881
5	4.05	n-Propanol	1691365	1.0000	0.8162

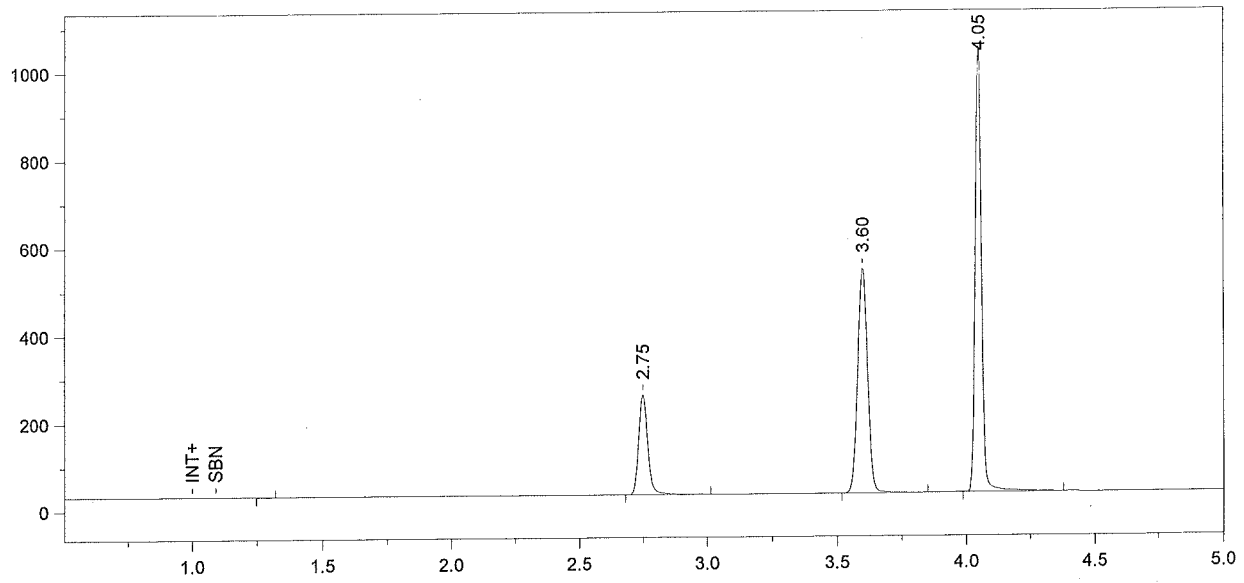


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 5:21:29 PM
Bound File Name = Sim070909.0010.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 5:21:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	1420264	43.2939	35.3365
4	4.05	n-Propanol	12641	1.0000	0.8162

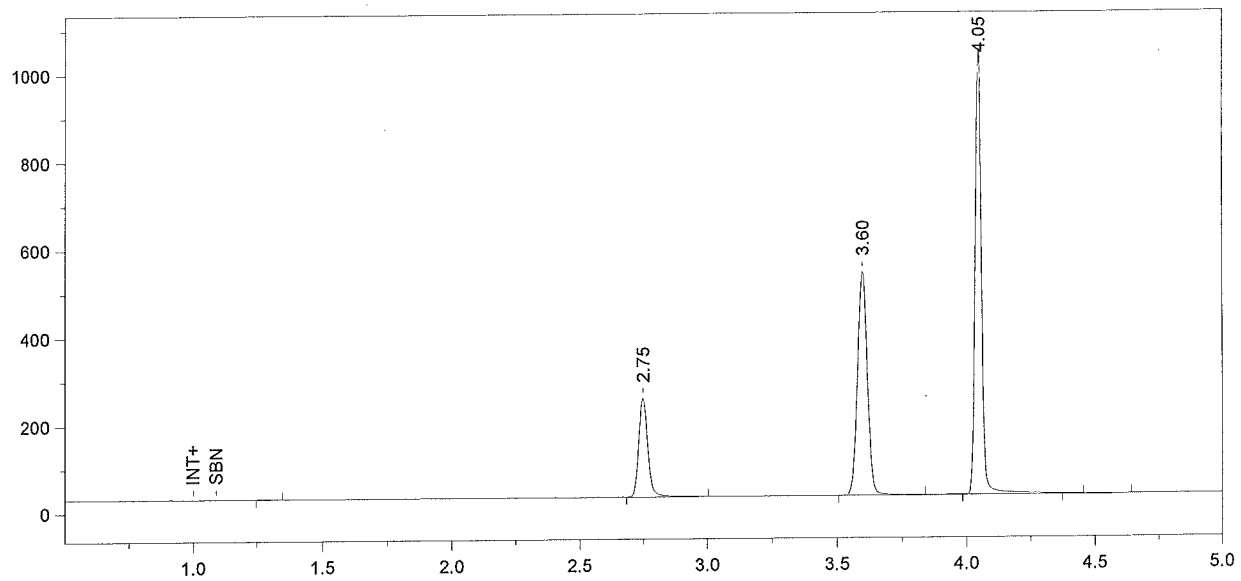
No IS spiked.



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 5:36:35 PM
Bound File Name = Sim070909.0011.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 5:36:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

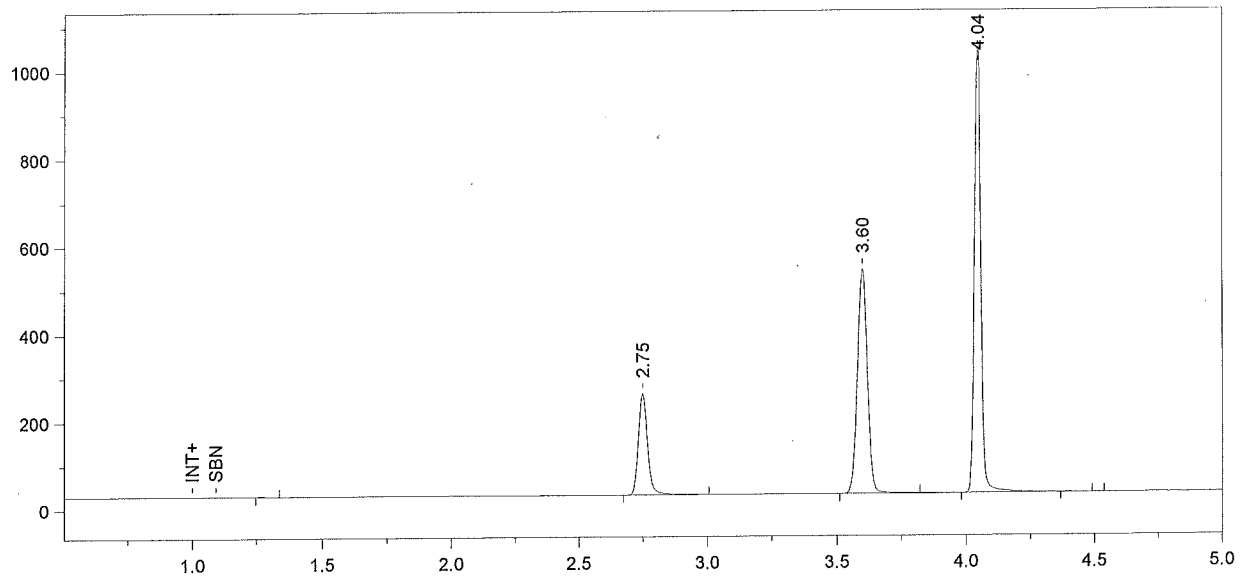
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	562463	0.1246	0.1017
3	3.60	t-Butanol	1371980	0.9691	0.7910
4	4.05	n-Propanol	1738954	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 5:51:33 PM
Bound File Name = Sim070909.0012.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 5:51:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

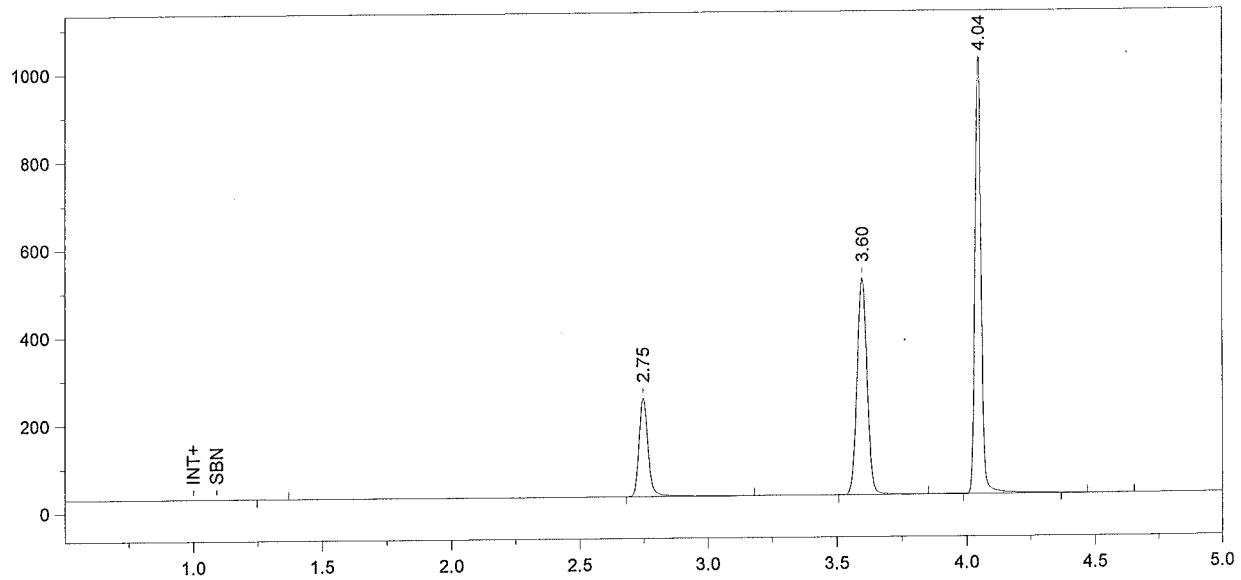
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	559311	0.1214	0.0991
3	3.60	t-Butanol	1367940	0.9465	0.7726
4	4.05	n-Propanol	1775228	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 6:06:36 PM
Bound File Name = Sim070909.0013.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 6:06:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

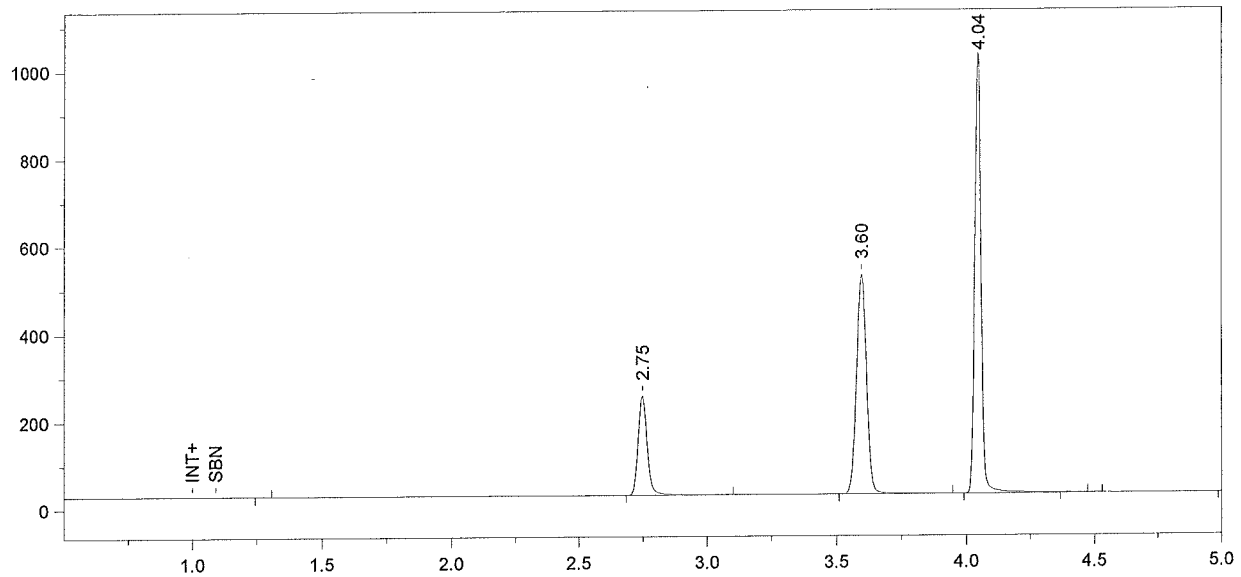
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	570520	0.1236	0.1009
3	3.60	t-Butanol	1377480	0.9515	0.7767
4	4.04	n-Propanol	1778194	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 6:21:33 PM
Bound File Name = Sim070909.0014.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 6:21:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

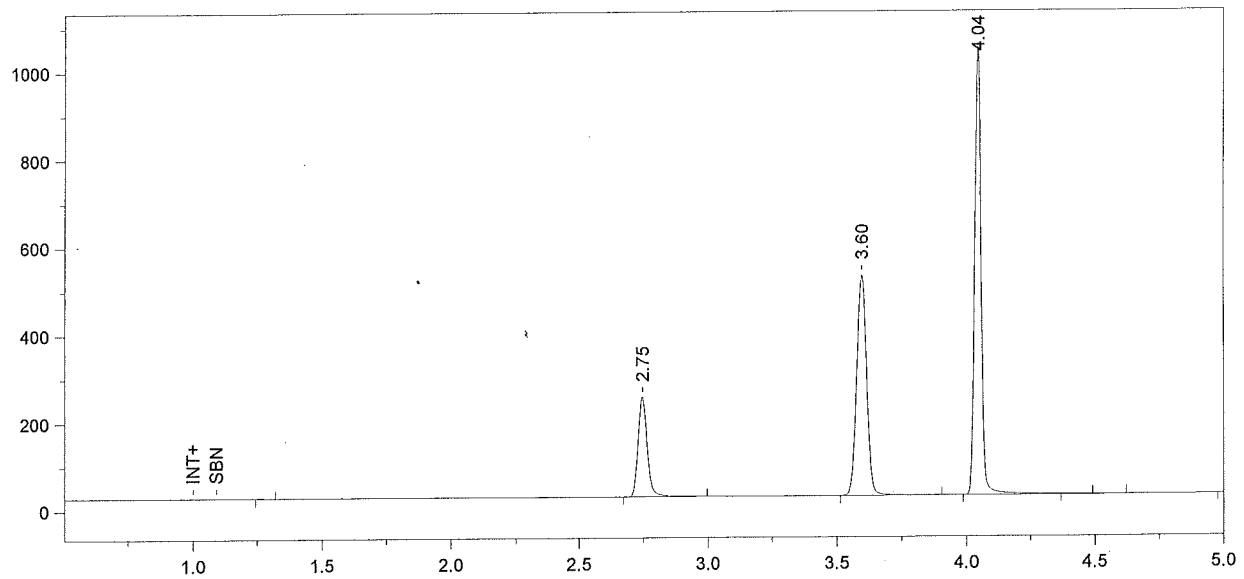
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	559356	0.1259	0.1028
3	3.60	t-Butanol	1322821	0.9494	0.7749
4	4.04	n-Propanol	1711464	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 6:36:38 PM
Bound File Name = Sim070909.0015.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 6:36:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

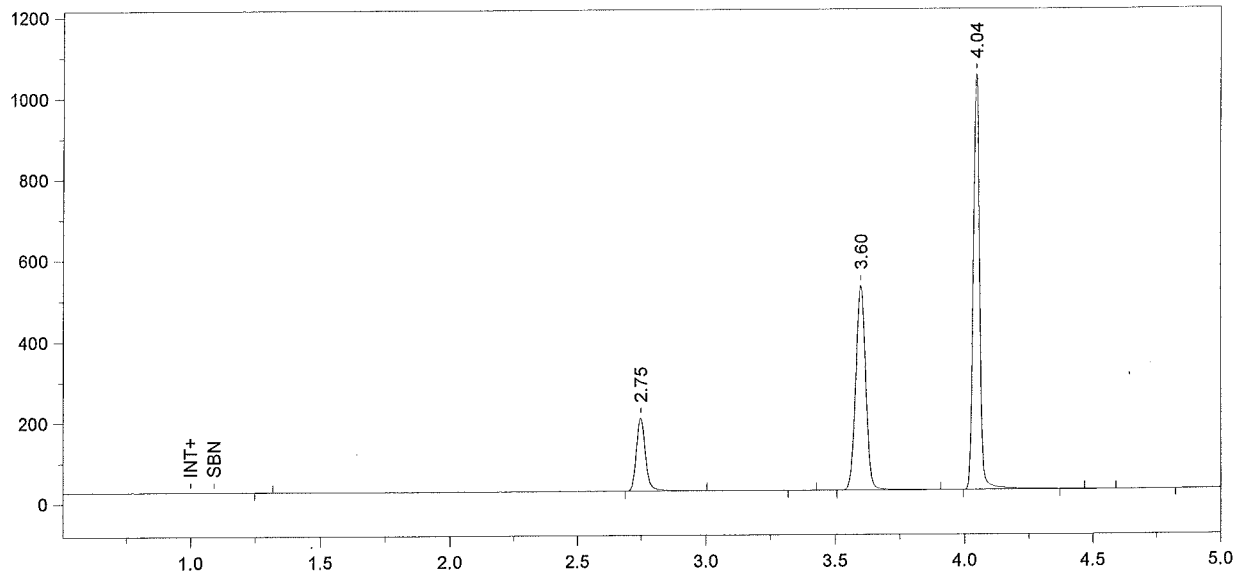
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	559444	0.1248	0.1019
3	3.60	t-Butanol	1343314	0.9554	0.7798
4	4.04	n-Propanol	1727039	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 6:51:41 PM
Bound File Name = Sim070909.0016.RAW
Sample Name = 0.10 Cal HXB
Date Taken = 7/9/2009 6:51:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

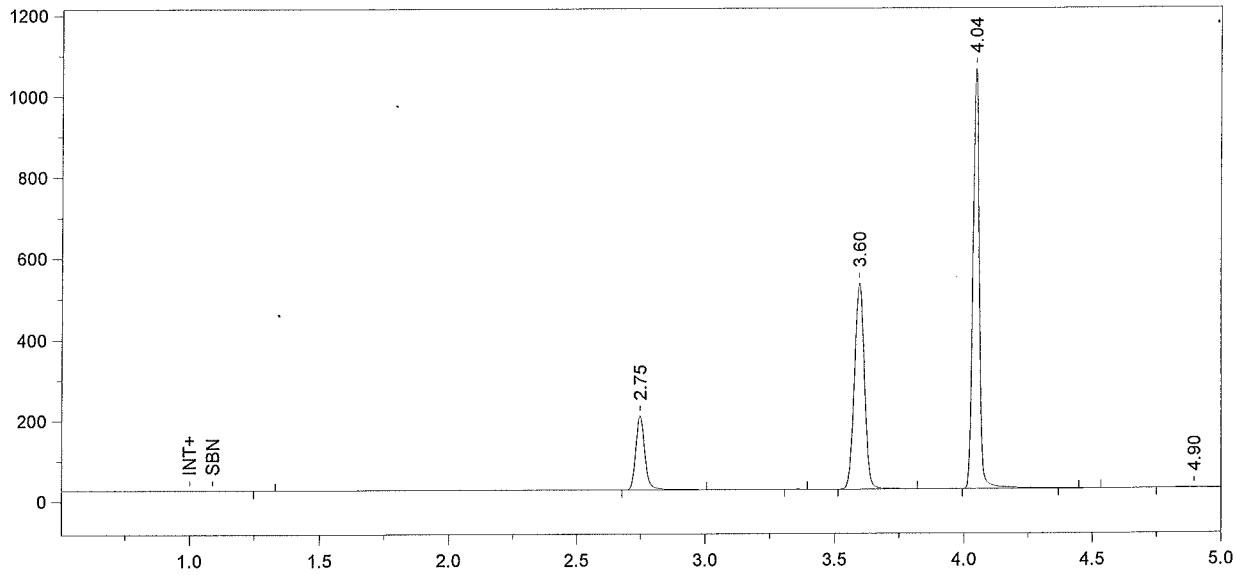
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.75	Ethanol	561300	0.1235	0.1008
3	3.60	t-Butanol	1354818	0.9504	0.7757
4	4.04	n-Propanol	1751092	1.0000	0.8162



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 7:06:43 PM
Bound File Name = Sim070909.0017.RAW
Sample Name = CCS
Date Taken = 7/9/2009 7:06:37 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.75	Ethanol	451689	0.0990
4	3.60	t-Butanol	1351651	0.9441
5	4.04	n-Propanol	1758591	1.0000



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/9/2009
Today's Time = 7:21:42 PM
Bound File Name = Sim070909.0018.RAW
Sample Name = CCS
Date Taken = 7/9/2009 7:21:36 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 28

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.75	Ethanol	454917	0.0985
4	3.60	t-Butanol	1360403	0.9386
5	4.04	n-Propanol	1780446	1.0000

File Name: C:\Methods\BloodAlcohol4.cal
Version: 44

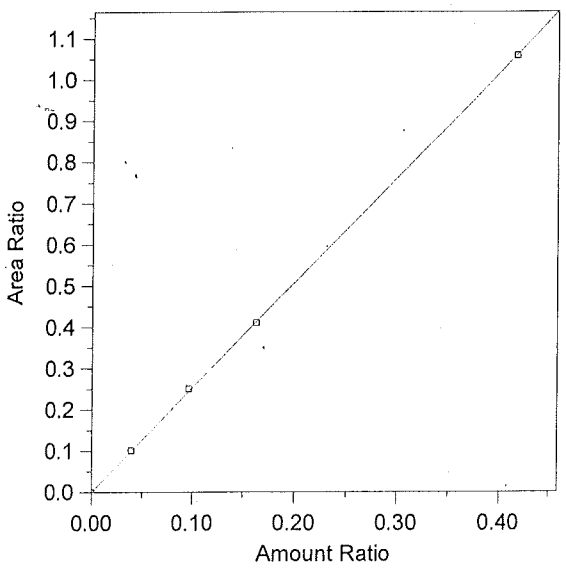
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 5000
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:	2.368 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

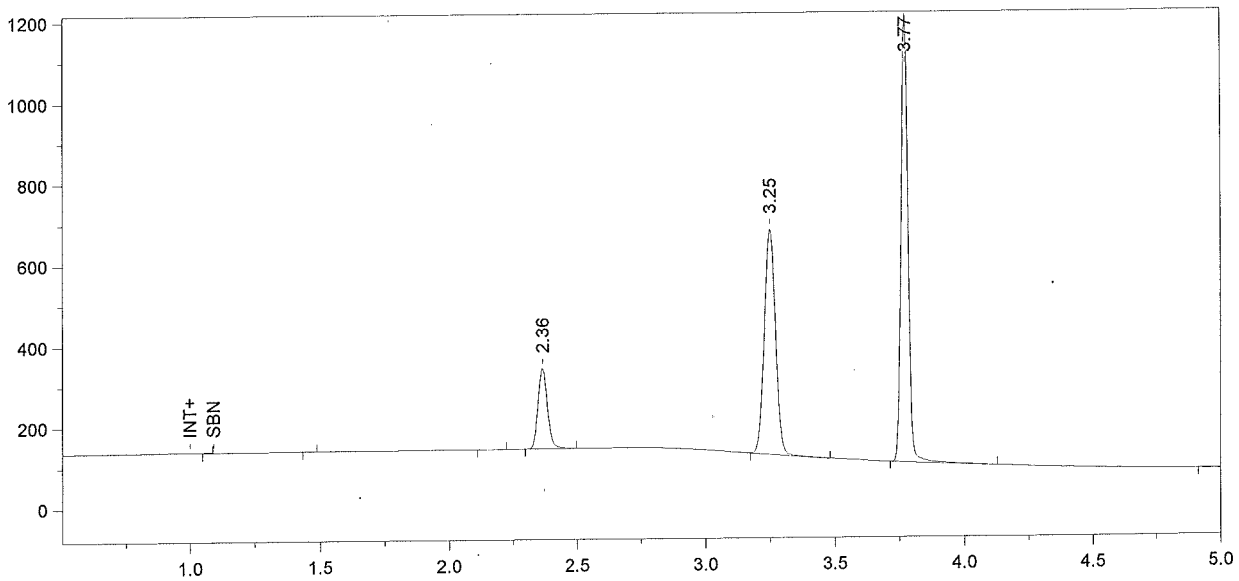
Single peak quantification by area

Y = 2.540784 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999077
Average error:	1.200%
Average CF:	2.055462
RSD:	55.934%

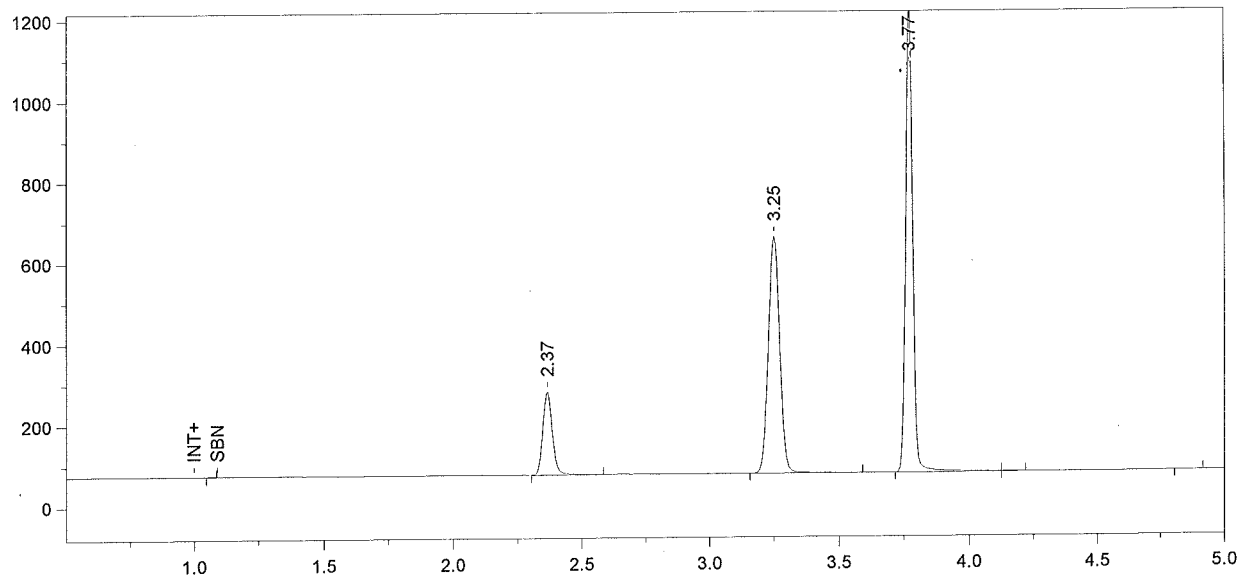
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.039	214440.2	5498467	2.330	0.039	0.1013997	C:\Alcohol Data\alc071409\alc071409a.0003.BND	7/15/2009 11:09:49 AM
3	0.096	521264.7	5429841	2.917	0.096	0.2510314	C:\Alcohol Data\alc071409\alc071409a.0004.BND	7/15/2009 11:24:49 AM
4	0.163	879313.6	5394562	-0.683	0.163	0.4113171	C:\Alcohol Data\alc071409\alc071409a.0005.BND	7/15/2009 11:39:52 AM
5	0.417	2255158	5408053	-0.071	0.417	1.058759	C:\Alcohol Data\alc071409\alc071409a.0006.BND	7/15/2009 11:54:57 AM



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/16/2009
Today's Time = 5:05:01 PM
Bound File Name = alc071409a.0034.RAW
Sample Name = CCS
Date Taken = 7/16/2009 5:04:57 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 47

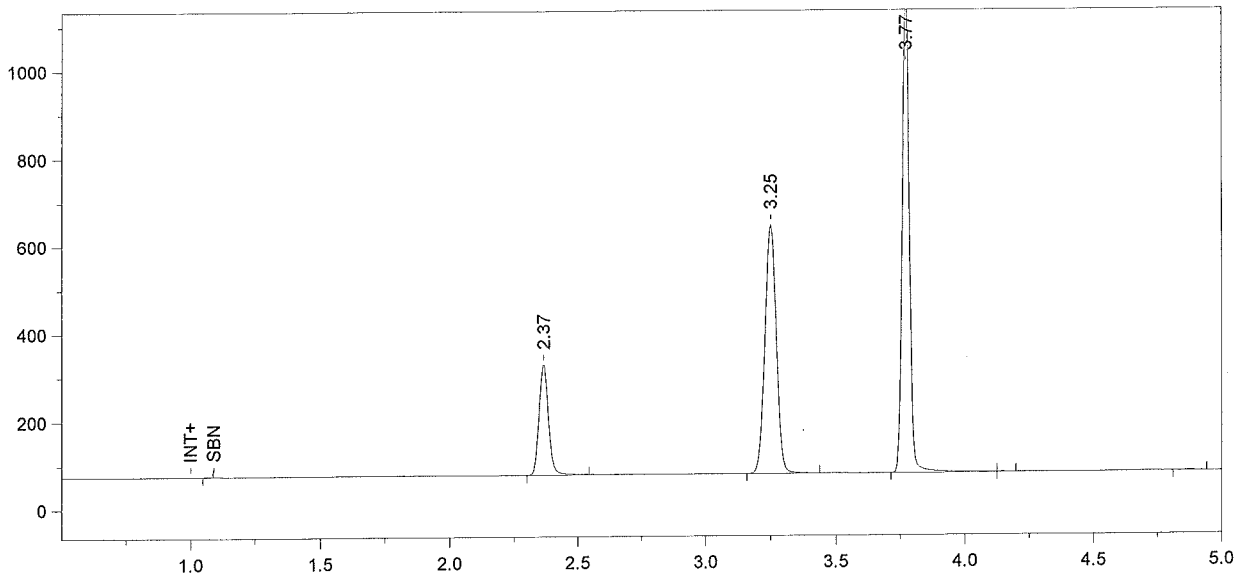
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.36	Ethanol	504839	0.0939
5	3.25	t-Butanol	1662520	0.9722
6	3.77	n-Propanol	2116774	1.0000



Format File Name = Alcohol4-JFH.met.FMT

Today's Date = 7/16/2009
Today's Time = 5:20:07 PM
Bound File Name = alc071409a.0035.RAW
Sample Name = CCS
Date Taken = 7/16/2009 5:19:57 PM
VDH Headspace Alcohol
Method file = BloodAlcohol4.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 47

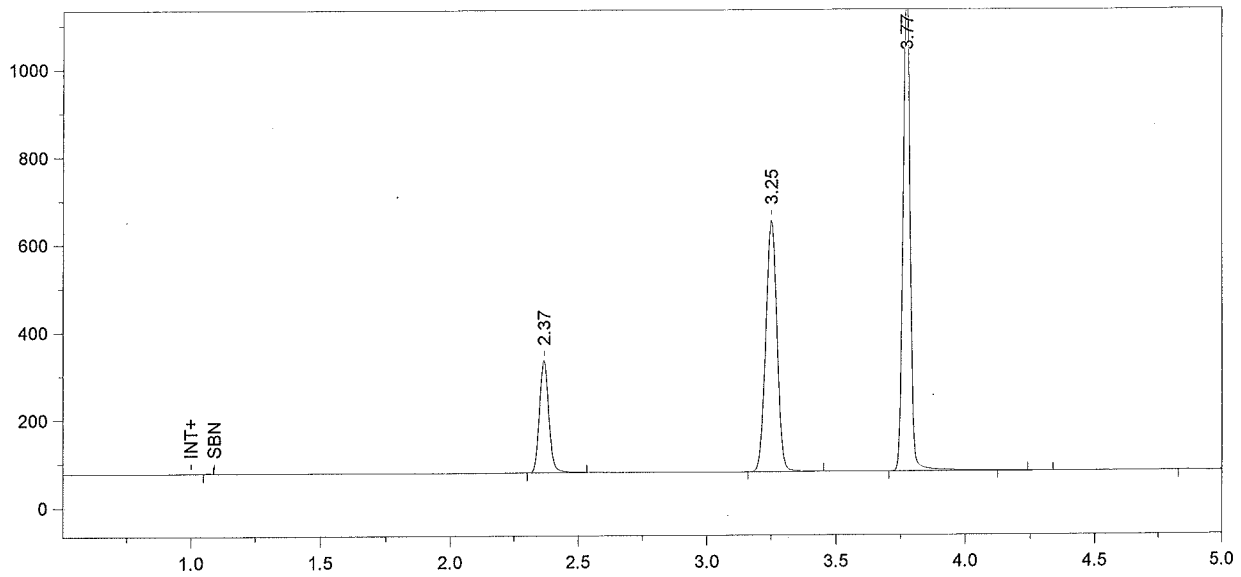
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.37	Ethanol	525585	0.0945
3	3.25	t-Butanol	1767396	0.9990
4	3.77	n-Propanol	2189975	1.0000



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/16/2009
Today's Time = 5:35:15 PM
Bound File Name = alc071409a.0036.RAW
Sample Name = .1 cal alb
Date Taken = 7/16/2009 5:35:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 47

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.37	Ethanol	644857	0.1202	0.0981
3	3.25	t-Butanol	1707910	1.0013	0.8172
4	3.77	n-Propanol	2111507	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/16/2009
Today's Time = 5:50:13 PM
Bound File Name = alc071409a.0037.RAW
Sample Name = .1 cal dmr
Date Taken = 7/16/2009 5:50:11 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = BloodAlcohol4.cal
Calibration Version = 47

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.37	Ethanol	656496	0.1206	0.0984
3	3.25	t-Butanol	1725664	0.9968	0.8136
4	3.77	n-Propanol	2142995	1.0000	0.8162