Vermont Department of Health Laboratory
Organic Chemistry Program

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Certificate of Analysis of DataMaster External Standard Solution

On 1/12/2012, an ethanol solution was prepared by Steven Merrill for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-51-100 and an expiration date of 1/12/2013.

On 1/19/2012 and 1/20/2012, the solution was analyzed against calibration Cal Version #206 and Cal Version #215. 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 0.100 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Burlington, Vermont on Monday, January 23, 2012.

Steven Merrill

0.1 External Standard Solution 20L
Lot # 12-51-100
Prepared 01/12/2012 by SRM
Exp 01/12/2013

SRM CAL Version 206
SRM/JFH Vials
Analyzed on 01/19/2012

0.0988 srm
0.1015
0.1007
0.0992
0.0991
0.1012
0.0993
0.1008 jfh
0.1001
0.0986
0.1003
0.1002
0.0992
0.1004

Ave. = 0.1000
Std Dev. = 0.0009
Range = 0.0986 - 0.1015

ALB CAL Version 215
SRM/ALB Vials
Analyzed on 01/20/2012

0.0996 srm
0.1008
0.1004
0.1003
0.1004
0.0981
0.0994
0.1007 alb
0.1007
0.0985
~~0.1091~~
~~0.1312~~
0.1003
0.1001

Ave. = 0.0999
Std Dev. = 0.0009
Range = 0.0981 - 0.1008

Total Values from Both Runs

Average	Mean
0.0981	0.0981
0.0985	0.0985
0.0986	0.0986
0.0988	0.0988
0.0991	0.0991
0.0992	0.0992
0.0992	
0.0993	0.0993
0.0994	0.0994
0.0996	0.0996
0.1001	0.1001
0.1001	
0.1002	0.1002
0.1003	0.1003
0.1003	
0.1003	
0.1004	0.1004
0.1004	
0.1004	
0.1007	0.1007
0.1007	
0.1007	
0.1008	0.1008
0.1008	
0.1012	0.1012
0.1015	0.1015

Ave. =	0.1000
Std Dev. =	0.0009
Range =	0.0981 - 0.1015
Mean =	0.0998
Mean Std Dev. =	0.0010
RPD (Mean to Ave.)=	0.20%

Reviewed 1/23/12

Reviewed 1-23-12

DataMaster Simulator Solution
Lot # 12-51-100 $EtOH_{aq}$ Conc: 0.100
Range: 0.095 - 0.105
Preparation Date: 01/12/2012 Expires: 01/12/2013

OPENED:

File Name: C:\Methods\SimSolution.cal
Version: 206

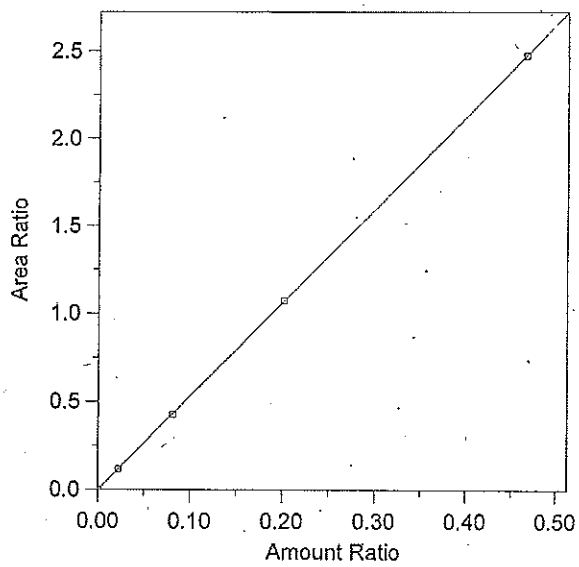
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 15000
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: 2.547 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

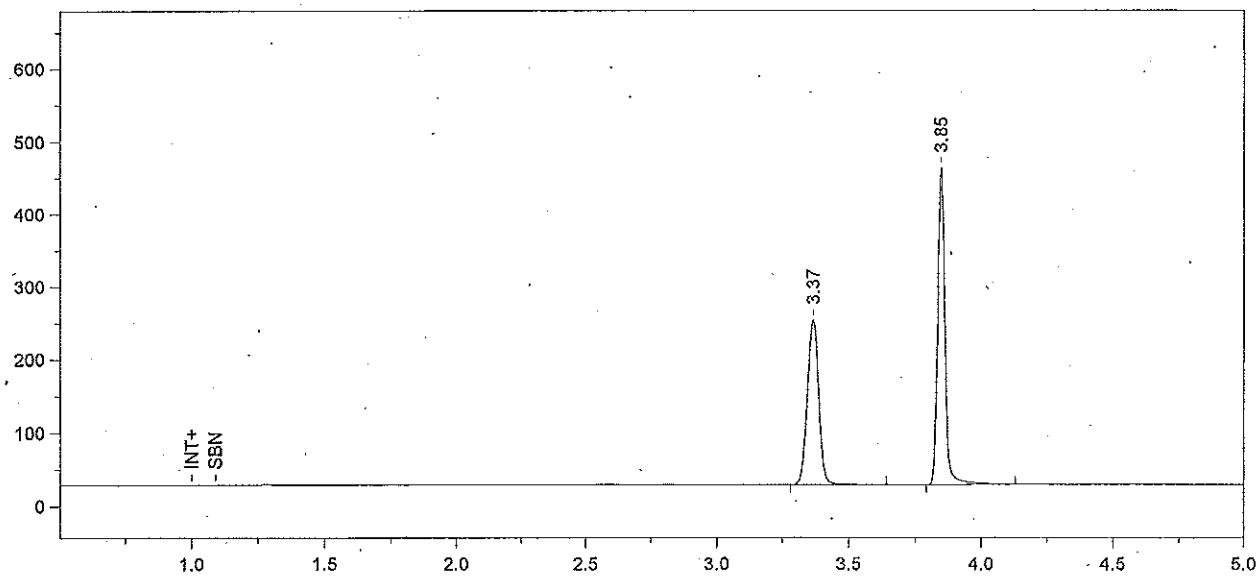
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.311685 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999897
Average error: 0.402%
Average CF: 4.243403
RSD: 55.908%

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	0.0223	99154.16	4446375	0.397	0.0223	0.1189212	C:\Alcohol Data\Sim011812\Sim011812.0010.BND	1/18/2012 12:43:05 PM
3	0.0814	353506.3	4342830	-1.260	0.0814	0.4269228	C:\Alcohol Data\Sim011812\Sim011812.0011.BND	1/18/2012 12:58:02 PM
4	0.2016	900344.3	4465994	0.327	0.2016	1.074335	C:\Alcohol Data\Sim011812\Sim011812.0012.BND	1/18/2012 1:13:02 PM
5	0.466	2053396	4406430	-0.024	0.466	2.47466	C:\Alcohol Data\Sim011812\Sim011812.0013.BND	1/18/2012 1:28:05 PM



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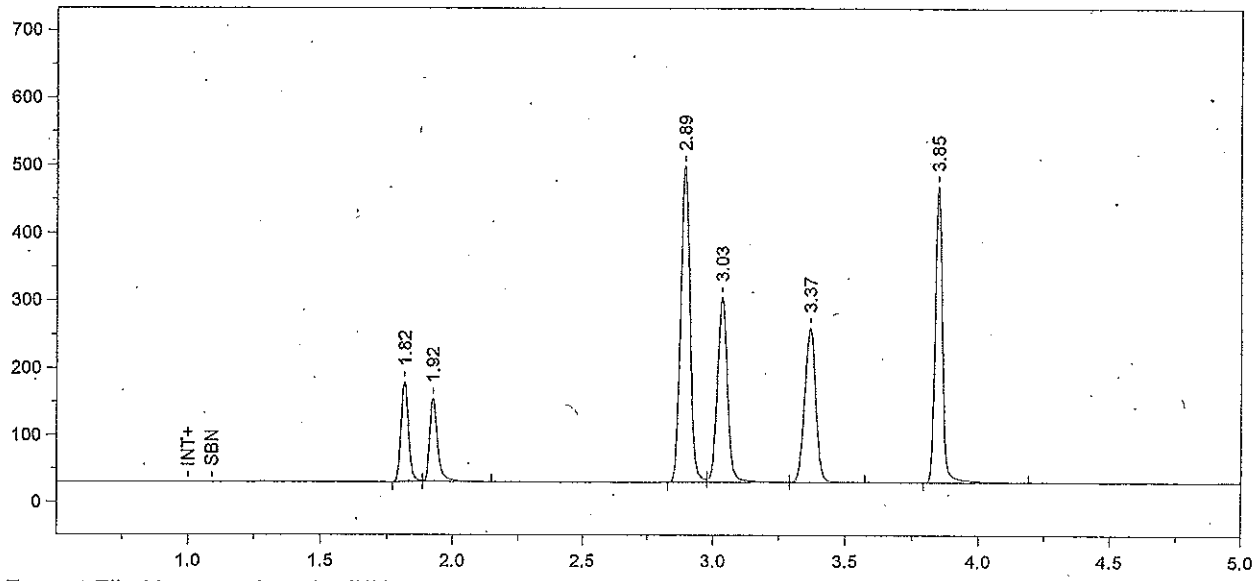
Today's Time = 3:46:26 PM
Bound File Name = Sim011812.0008.RAW
Sample Name = Blank
Date Taken = 1/18/2012 12:13:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.37	t-Butanol	665348	1.0011	0.8171
2	3.85	n-Propanol	820264	1.0000	0.8162



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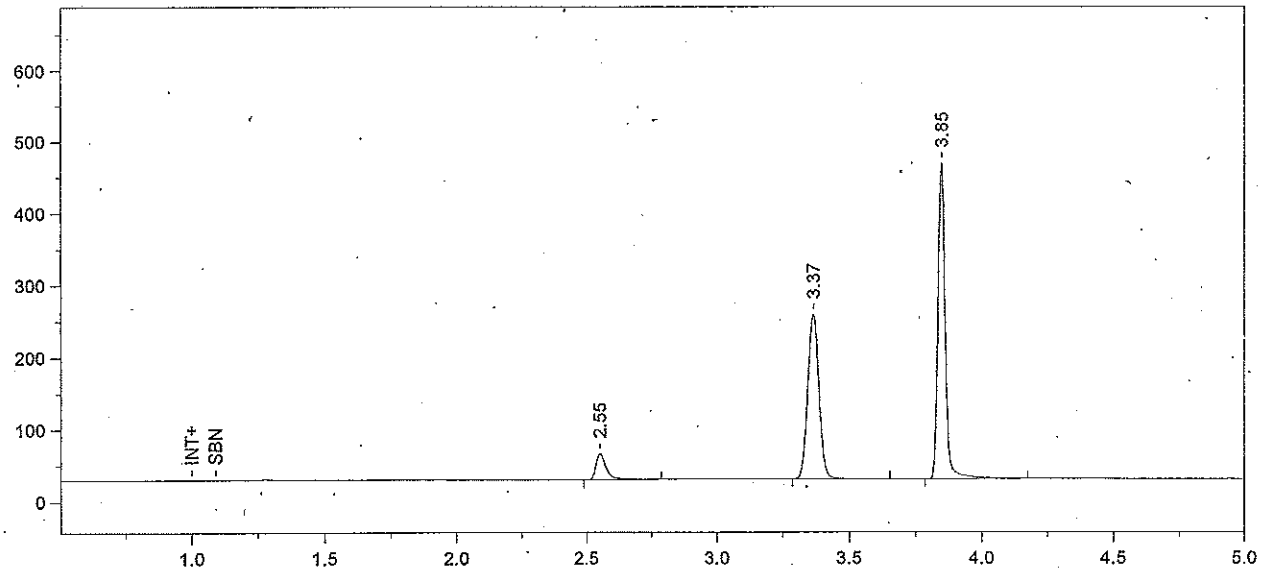
Sample Name = TMX
Date Taken = 1/18/2012 12:27:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	256134	0.0510	0.0416
4	3.03	Acetone	741698	0.0600	0.0490
5	3.37	t-Butanol	680012	1.0002	0.8164
6	3.85	n-Propanol	839082	1.0000	0.8162



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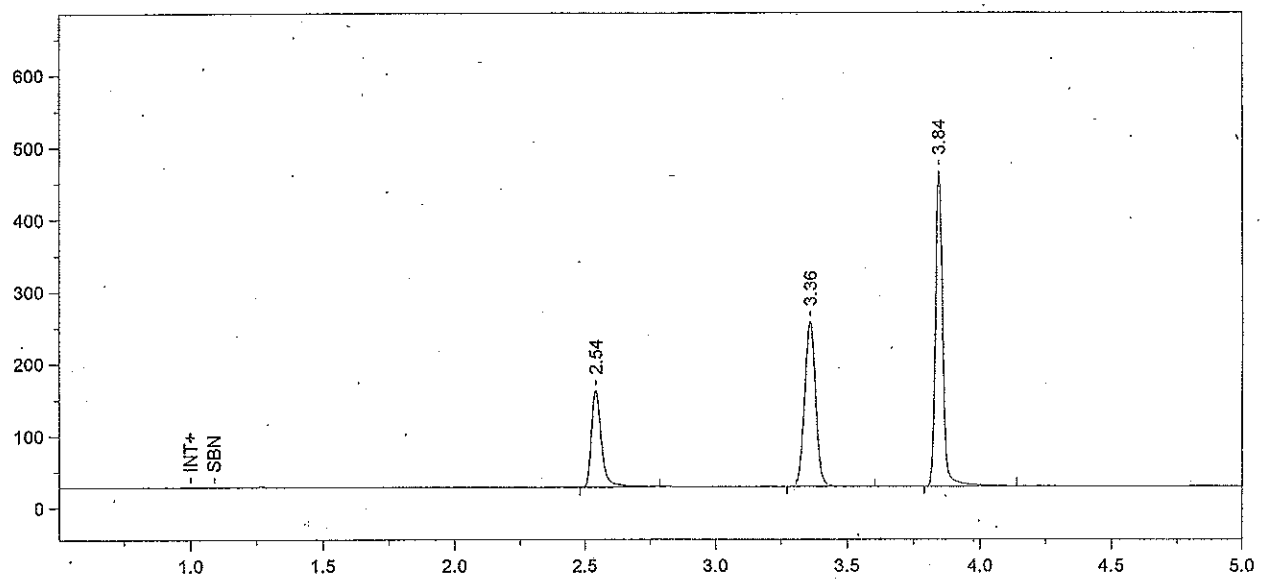
Sample Name = Std A
Date Taken = 1/18/2012 12:42:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	99154	0.0224	0.0183
2	3.37	t-Butanol	676392	1.0012	0.8172
3	3.85	n-Propanol	833780	1.0000	0.8162



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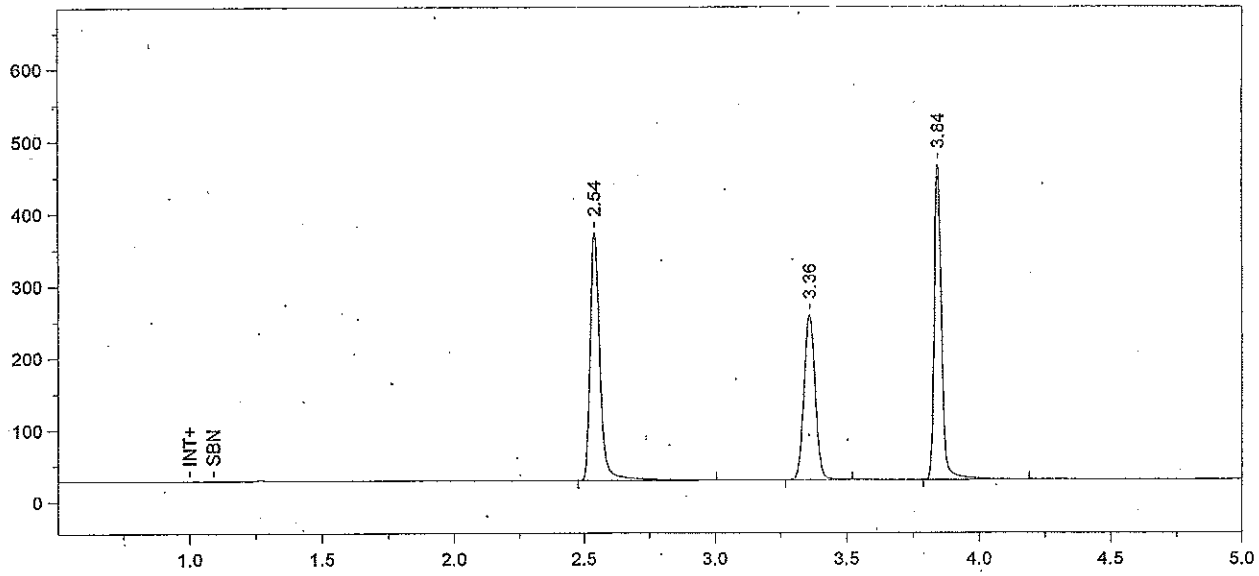
Sample Name = Std B
Date Taken = 1/18/2012 12:57:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	353506	0.0804	0.0656
2	3.36	t-Butanol	673391	1.0037	0.8192
3	3.84	n-Propanol	828033	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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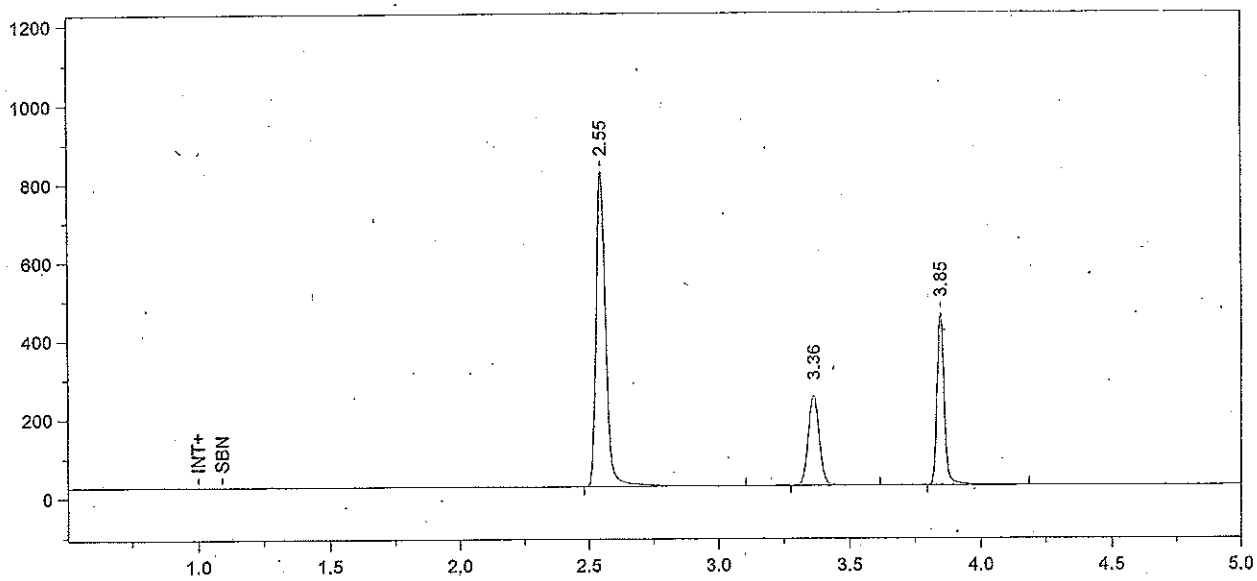
Today's Time = 3:46:43 PM
Bound File Name = Sim011812.0012.RAW
Sample Name = Std C
Date Taken = 1/18/2012 1:13:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	900344	0.2023	0.1651
2	3.36	t-Butanol	675321	0.9945	0.8117
3	3.84	n-Propanol	838048	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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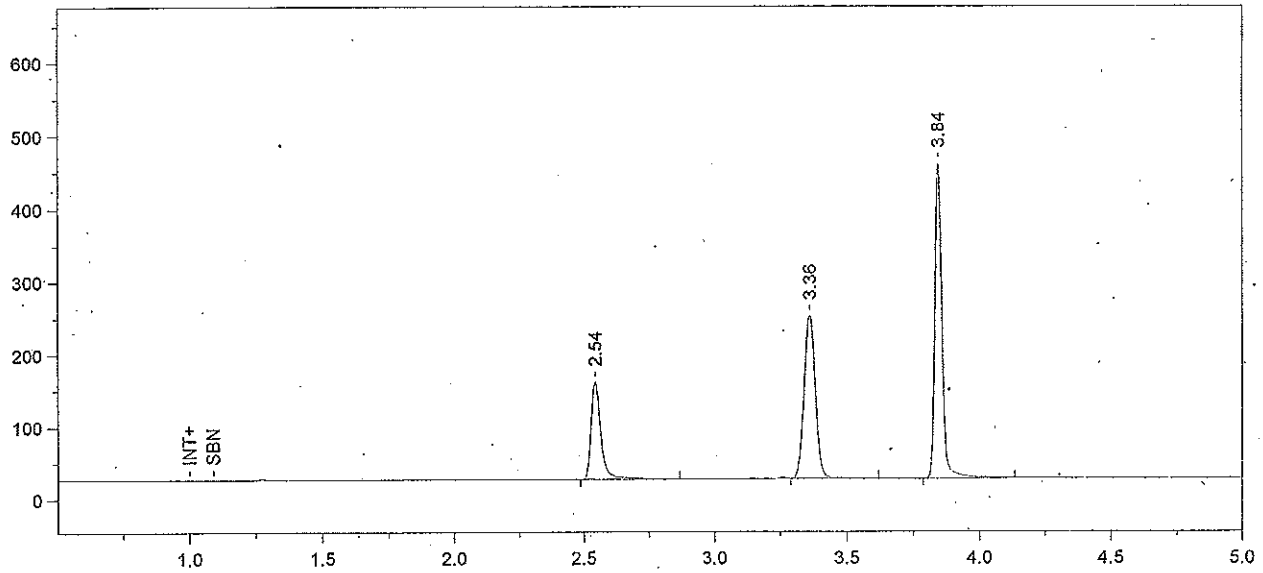
Today's Time = 3:46:48 PM
Bound File Name = Sim011812.0013.RAW
Sample Name = Std D
Date Taken = 1/18/2012 1:28:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	2053396	0.4659	0.3803
2	3.36	t-Butanol	672600	1.0004	0.8165
3	3.85	n-Propanol	829769	1.0000	0.8162



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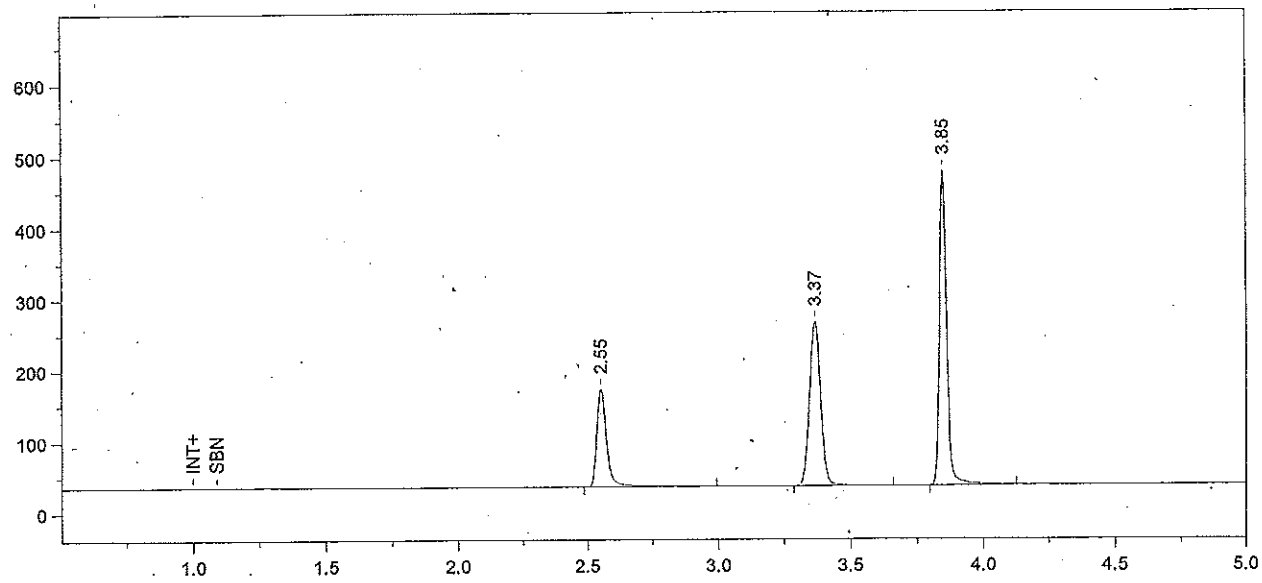
Sample Name = AQ QC
Date Taken = 1/18/2012 1:43:02 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	357200	0.0820	0.0669
2	3.36	t-Butanol	663943	0.9992	0.8155
3	3.84	n-Propanol	820083	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 4:04:50 PM
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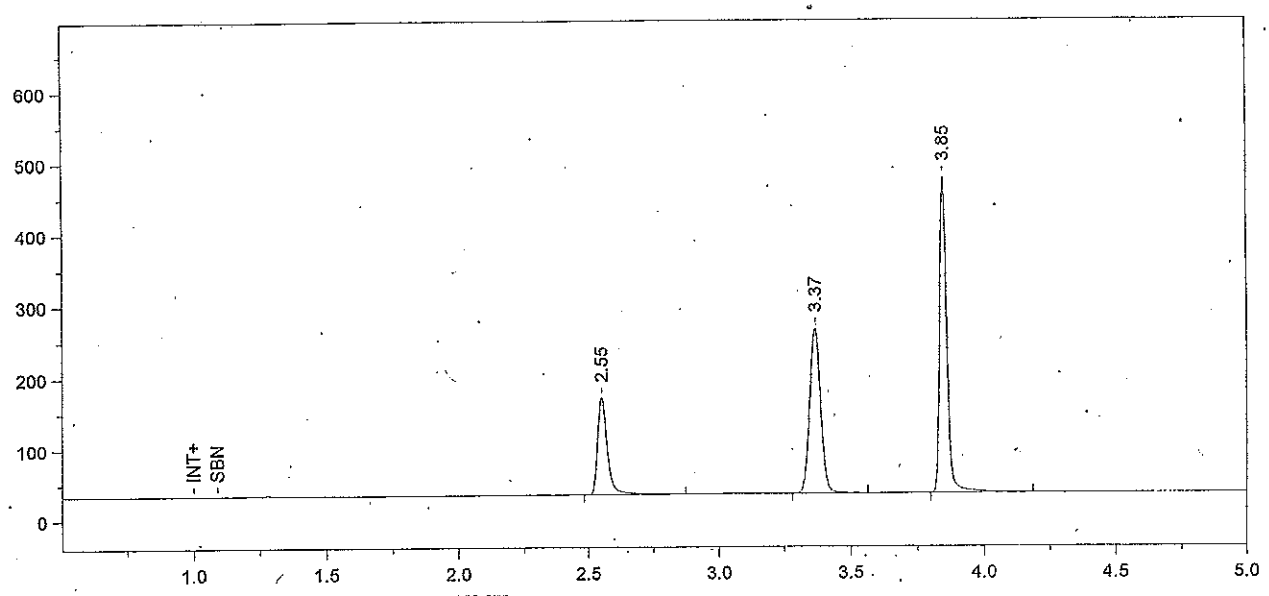
Sample Name = CCS B
Date Taken = 1/19/2012 4:04:47 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	363534	0.0825	0.0673
2	3.37	t-Butanol	676678	1.0062	0.8213
3	3.85	n-Propanol	829973	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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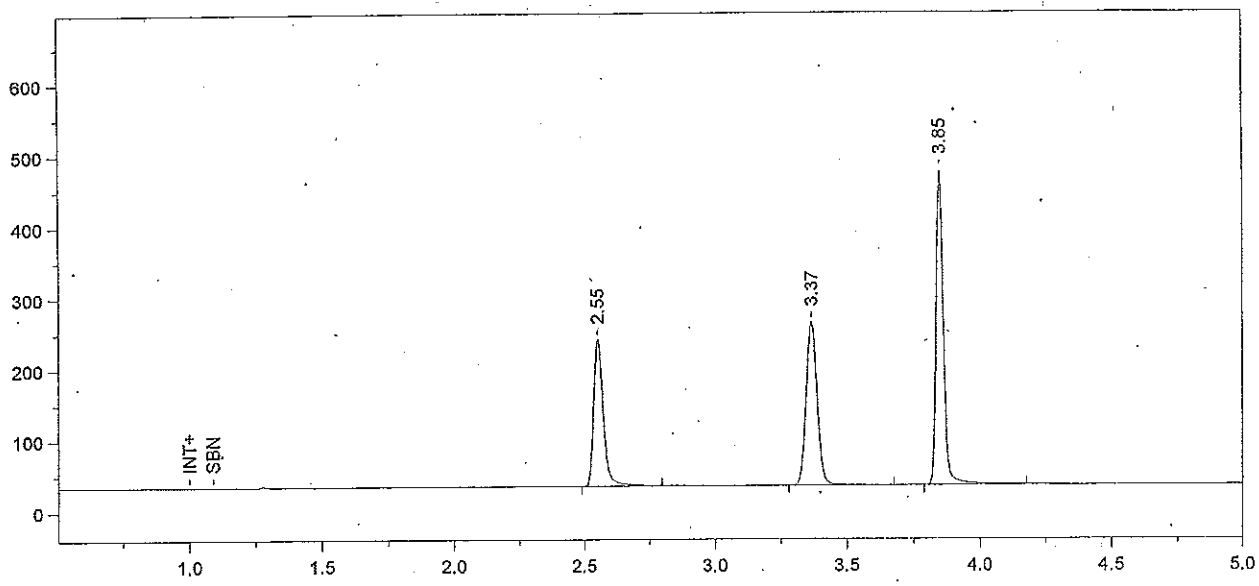
Today's Time = 4:19:43 PM
Bound File Name = Sim011912.0002.RAW
Sample Name = CCS B
Date Taken = 1/19/2012 4:19:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

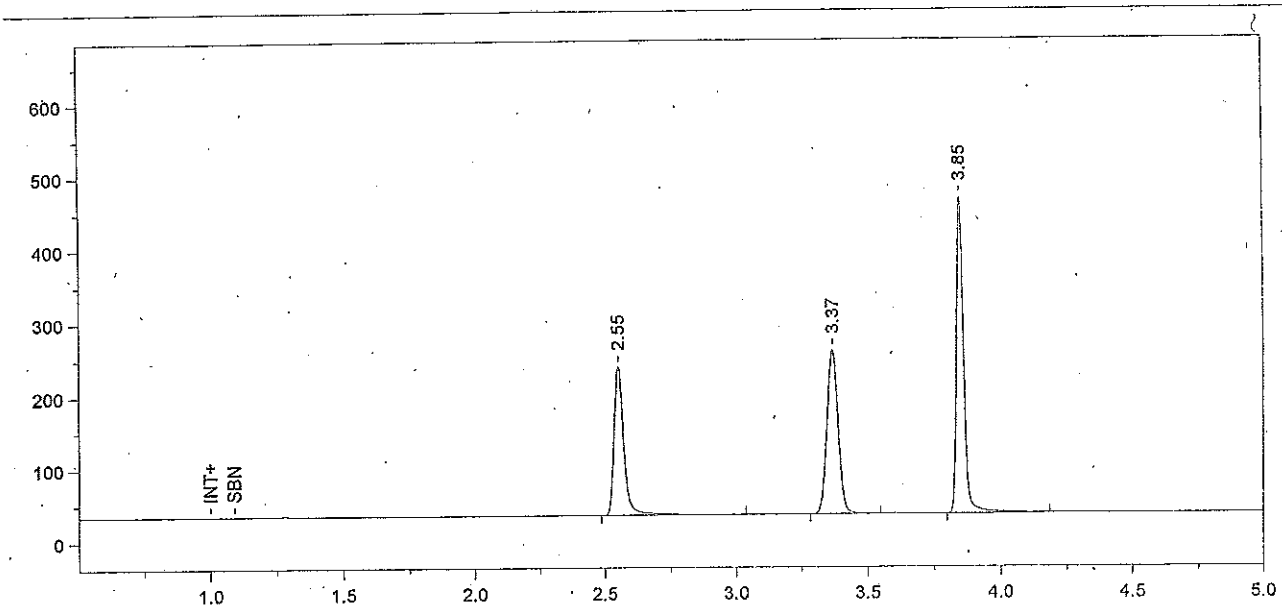
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	360124	0.0810	0.0661
2	3.37	t-Butanol	678856	1.0014	0.8174
3	3.85	n-Propanol	836631	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012
Today's Time = 4:34:45 PM
Bound File Name = Sim011912.0003.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/19/2012 4:34:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	535316	0.1210	0.0988
2	3.37	t-Butanol	676555	1.0026	0.8183
3	3.85	n-Propanol	832803	1.0000	0.8162



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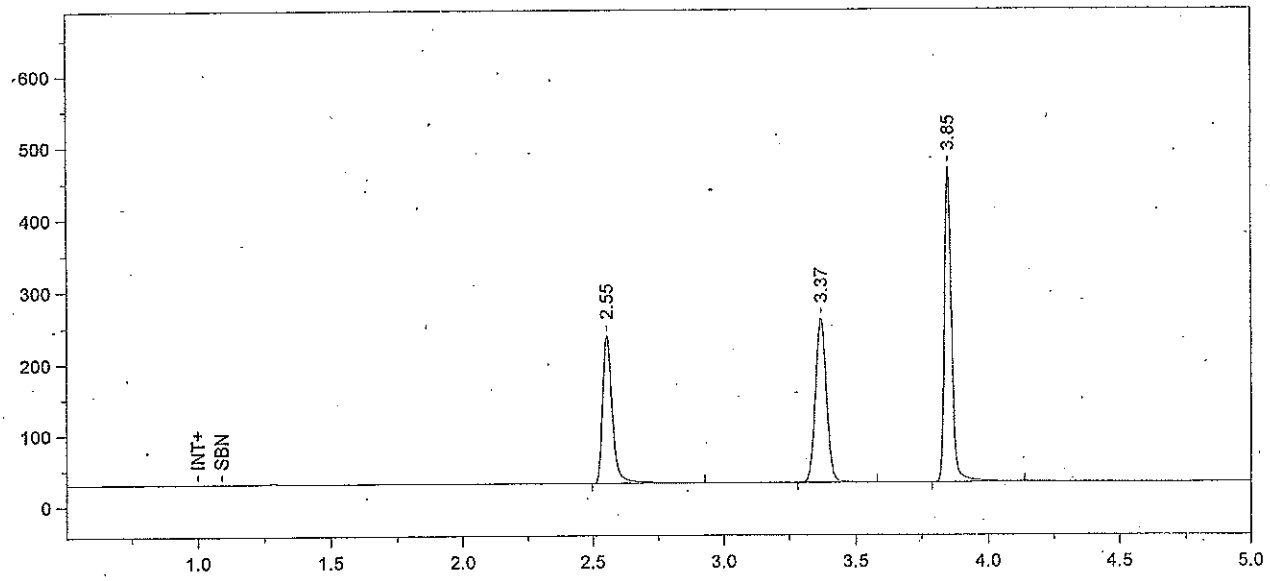
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/19/2012 4:49:44 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	541802	0.1244	0.1015
2	3.37	t-Butanol	662330	0.9966	0.8134
3	3.85	n-Propanol	820244	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 5:04:49 PM
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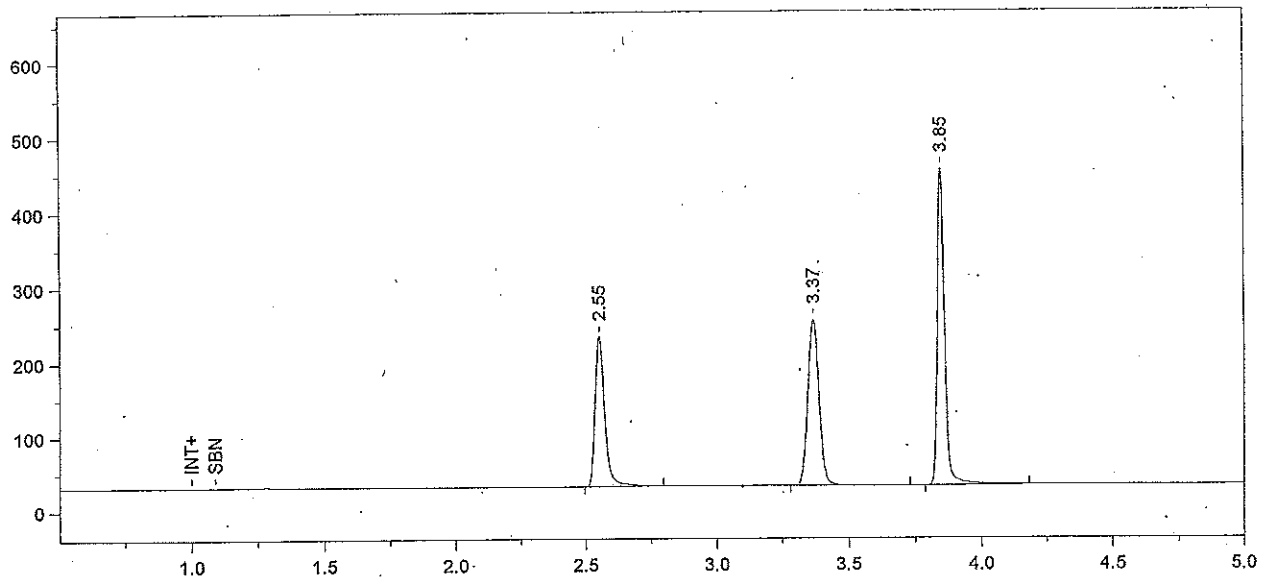
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/19/2012 5:04:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	541916	0.1234	0.1007
2	3.37	t-Butanol	671457	1.0025	0.8182
3	3.85	n-Propanol	826627	1.0000	0.8162



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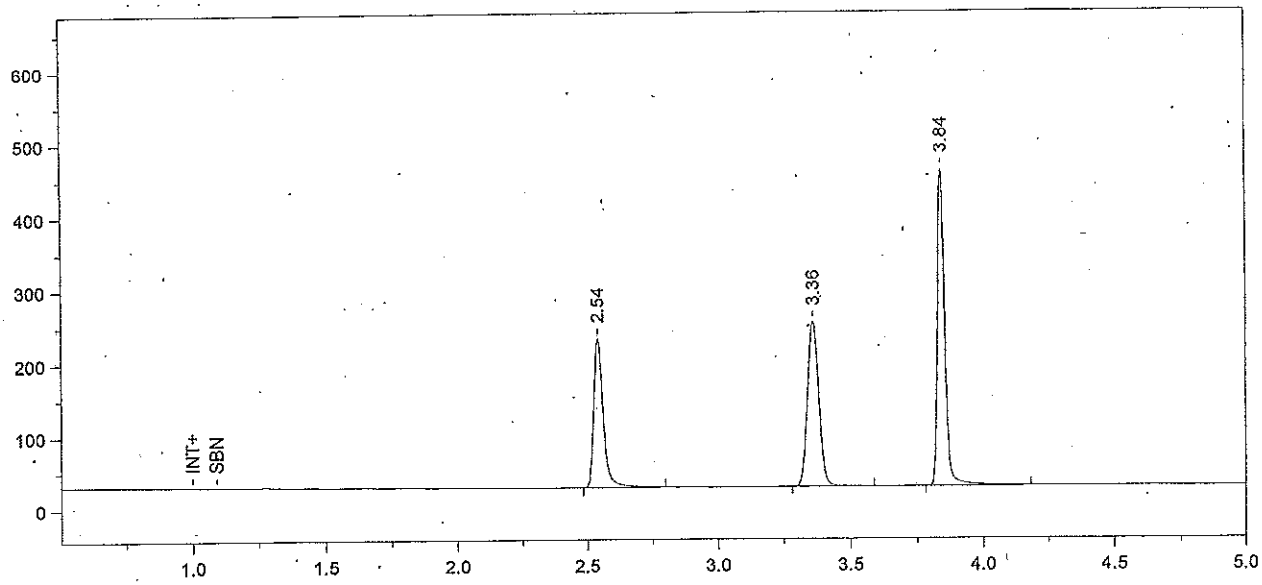
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	522602	0.1215	0.0992
2	3.37	t-Butanol	654897	0.9984	0.8149
3	3.85	n-Propanol	809578	1.0000	0.8162



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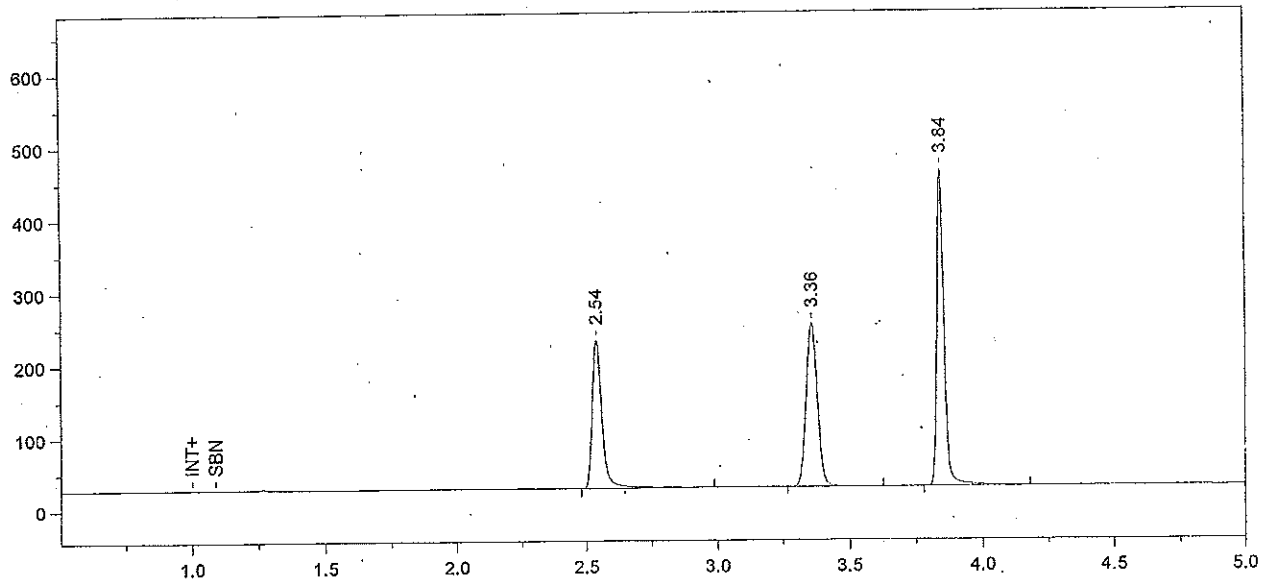
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/19/2012 5:34:52 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	531535	0.1214	0.0991
2	3.36	t-Butanol	667359	0.9991	0.8155
3	3.84	n-Propanol	824364	1.0000	0.8162



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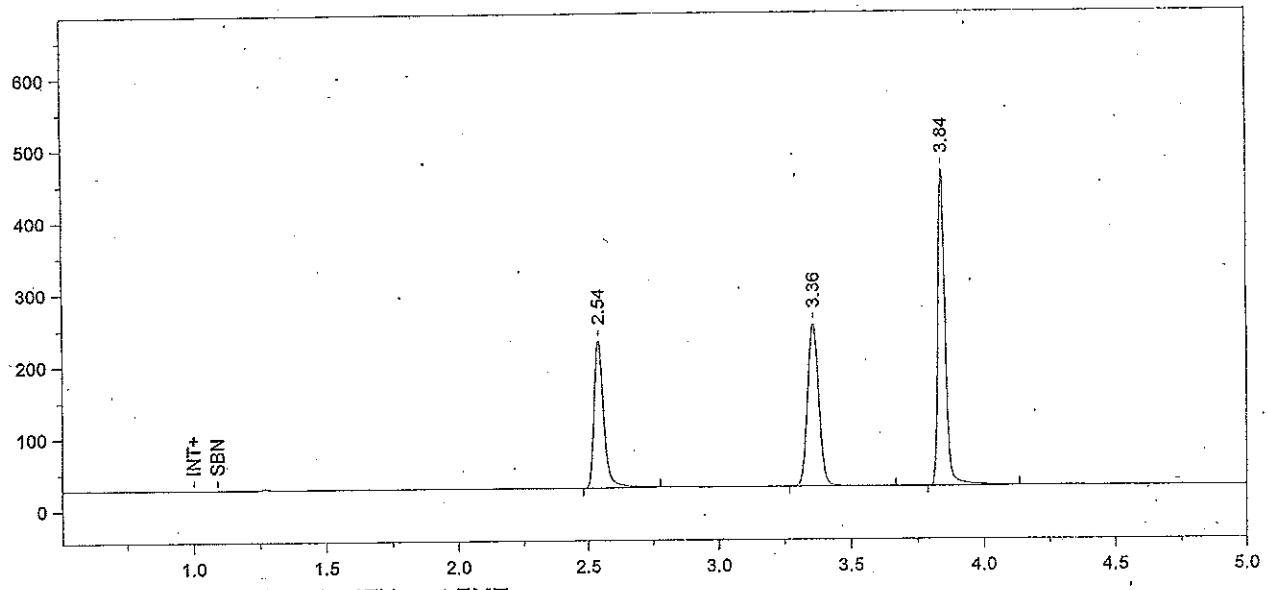
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/19/2012 5:49:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	539497	0.1240	0.1012
2	3.36	t-Butanol	663126	0.9989	0.8153
3	3.84	n-Propanol	819311	1.0000	0.8162



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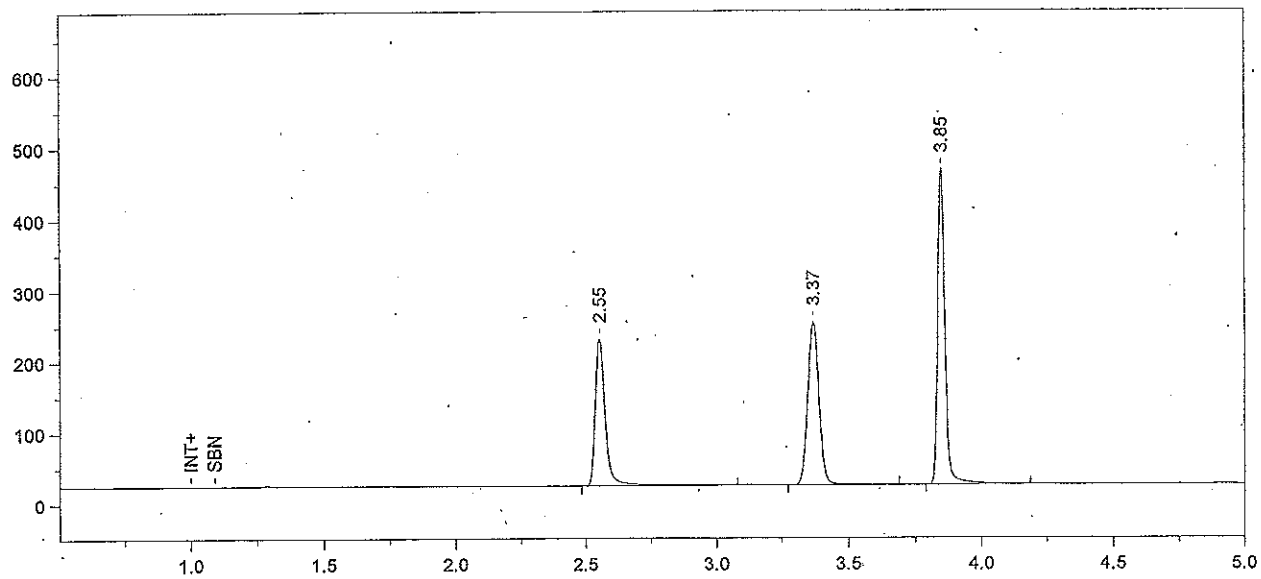
Date Taken = 1/19/2012 6:04:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	531134	0.1216	0.0993
2	3.36	t-Butanol	666256	1.0003	0.8165
3	3.84	n-Propanol	822000	1.0000	0.8162



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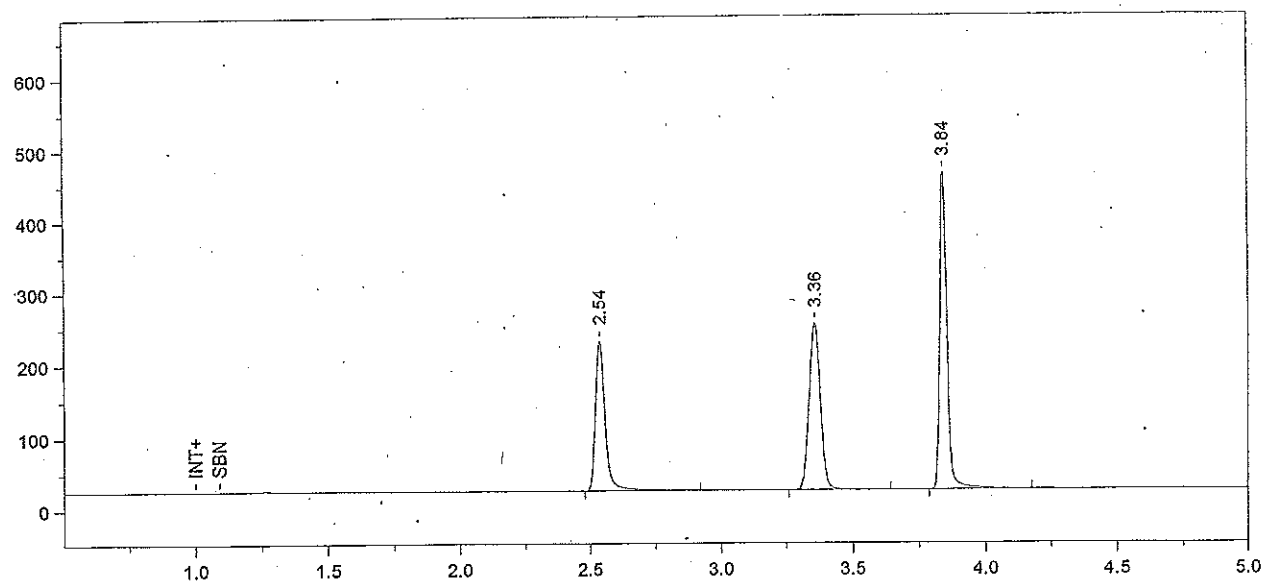
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	549805	0.1235	0.1008
2	3.37	t-Butanol	680617	1.0026	0.8183
3	3.85	n-Propanol	837809	1.0000	0.8162



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Today's Time = 6:34:54 PM
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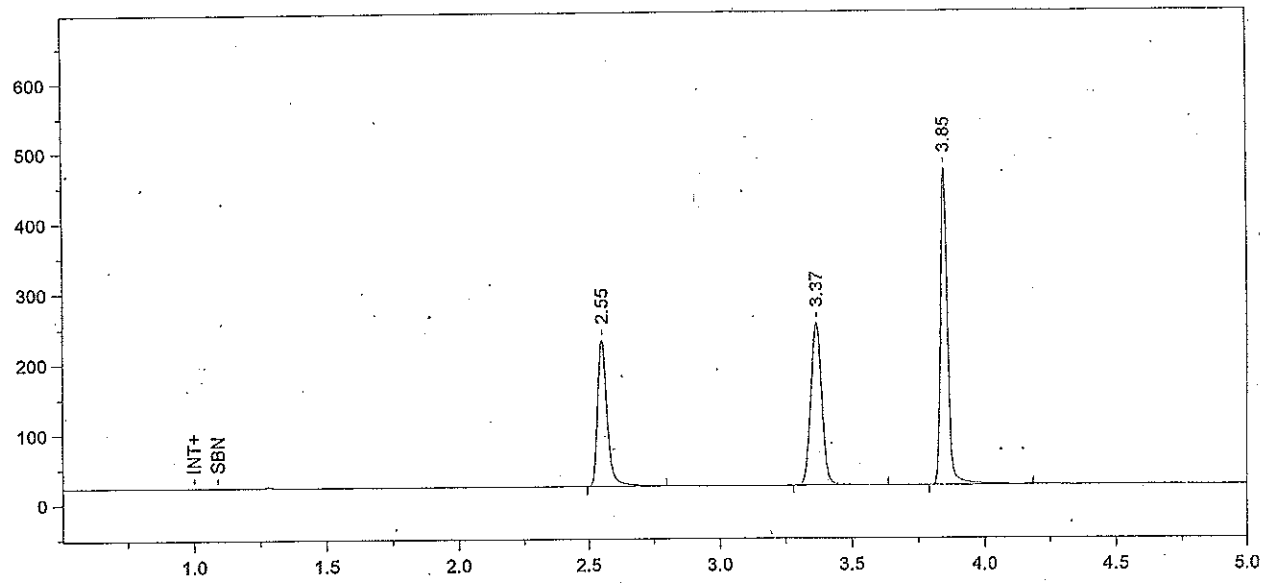
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 1/19/2012 6:34:50 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	545832	0.1227	0.1001
2	3.36	t-Butanol	678665	0.9997	0.8160
3	3.84	n-Propanol	837797	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 6:49:53 PM
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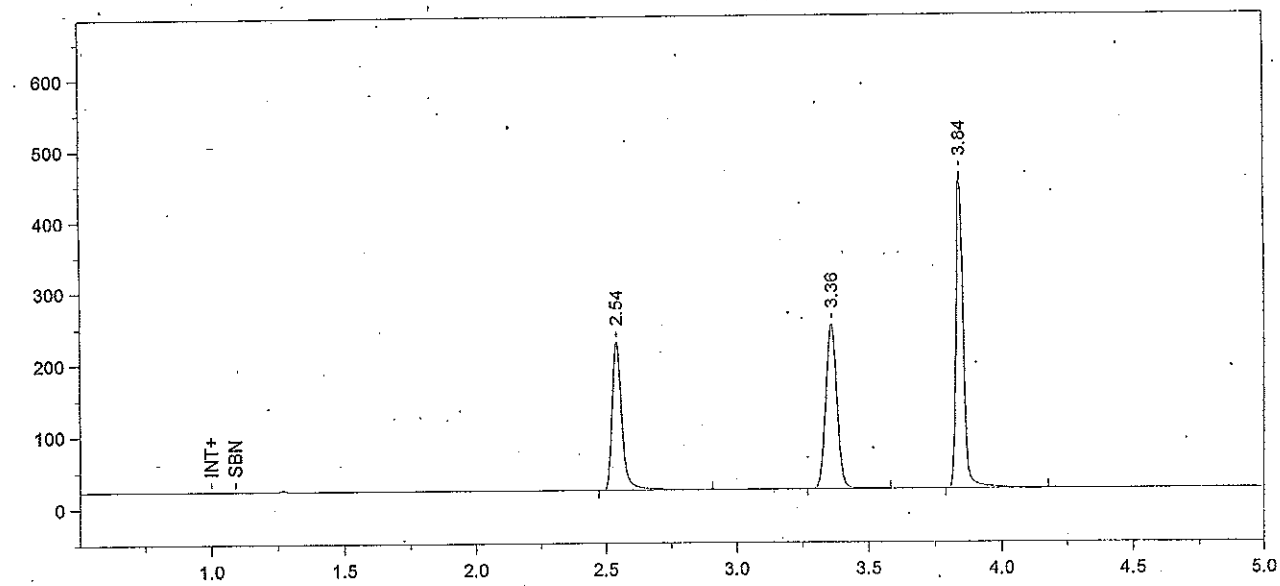
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 1/19/2012 6:49:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

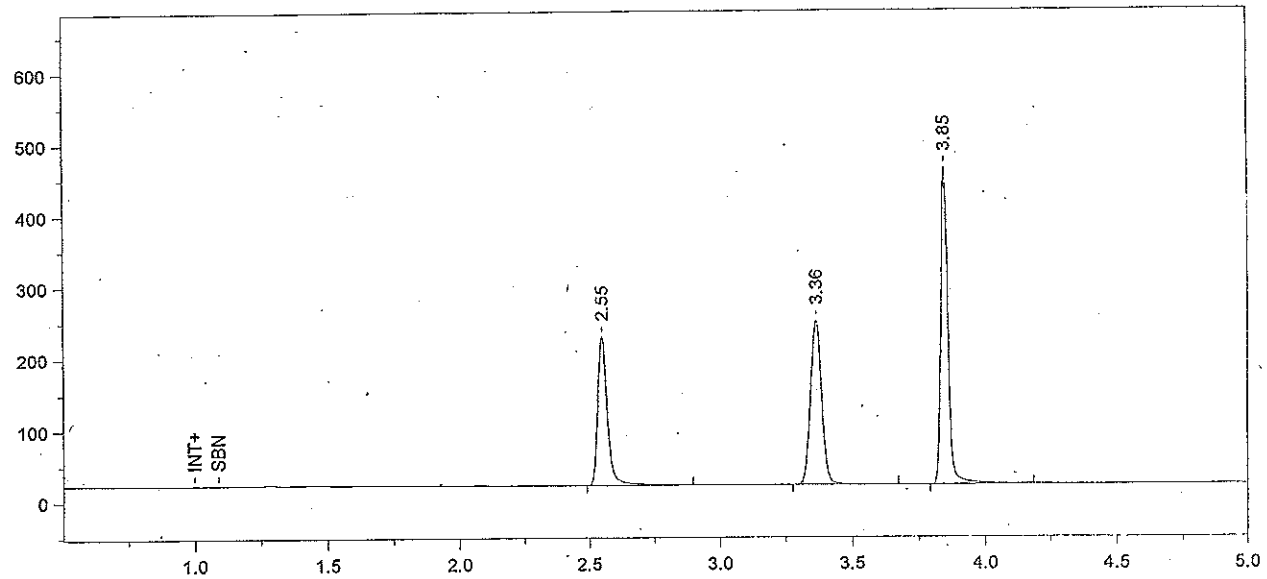
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	541065	0.1207	0.0986
2	3.37	t-Butanol	683122	0.9994	0.8157
3	3.85	n-Propanol	843592	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012
Today's Time = 7:04:58 PM
Bound File Name = Sim011912.0013.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 1/19/2012 7:04:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

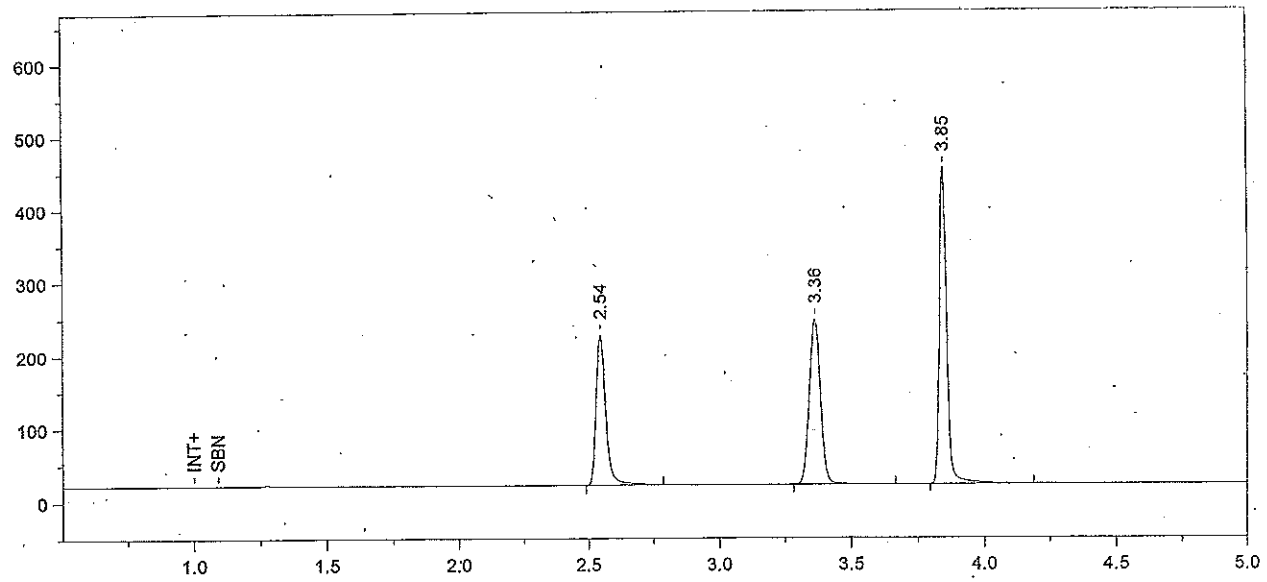
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	543181	0.1228	0.1003
2	3.36	t-Butanol	672071	0.9964	0.8133
3	3.84	n-Propanol	832425	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012
Today's Time = 7:20:01 PM
Bound File Name = Sim011912.0014.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 1/19/2012 7:19:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

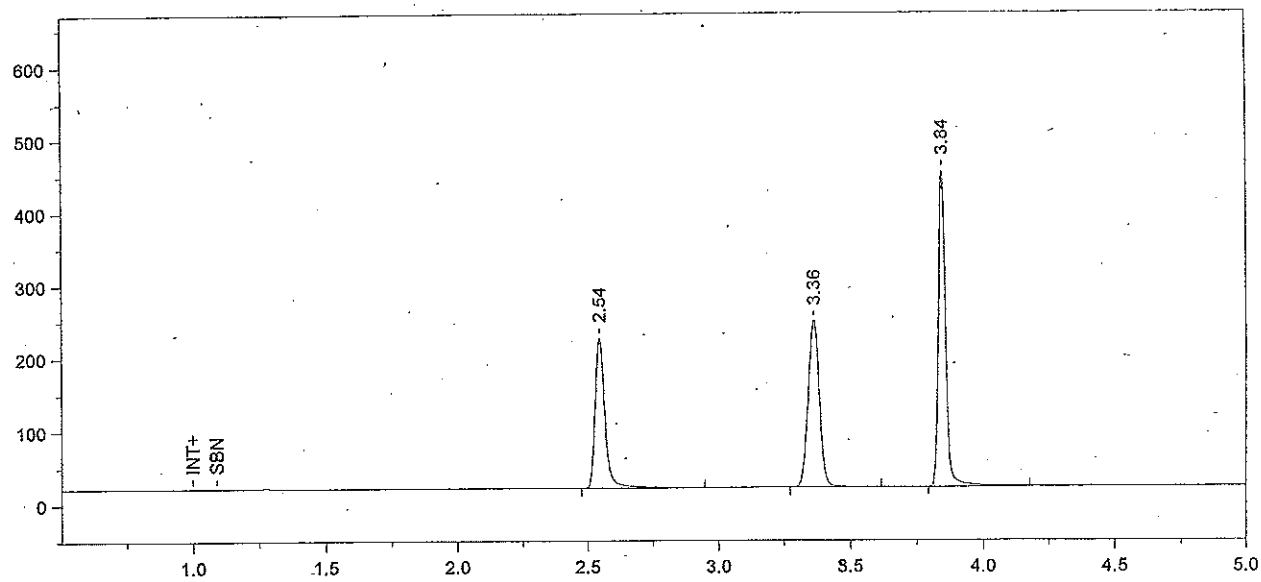
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	544315	0.1228	0.1002
2	3.36	t-Butanol	676813	1.0008	0.8169
3	3.85	n-Propanol	834605	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012
Today's Time = 7:34:58 PM
Bound File Name = Sim011912.0015.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 1/19/2012 7:34:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

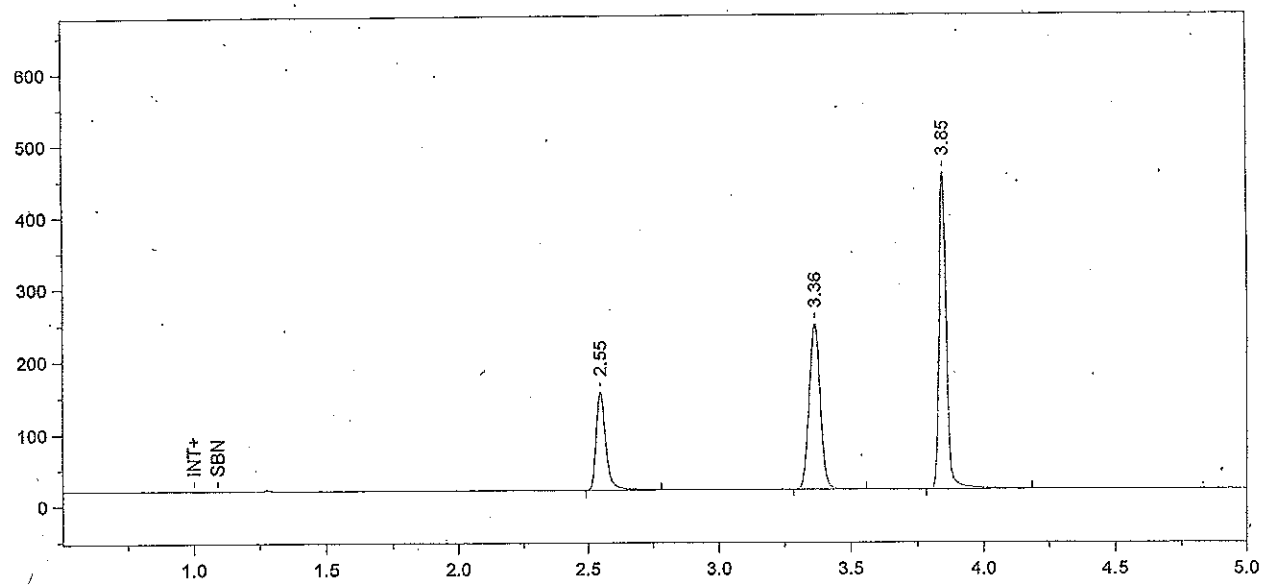
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	531986	0.1215	0.0992
2	3.36	t-Butanol	666198	0.9975	0.8142
3	3.85	n-Propanol	824265	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012
Today's Time = 7:50:03 PM
Bound File Name = Sim011912.0016.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 1/19/2012 7:49:57 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

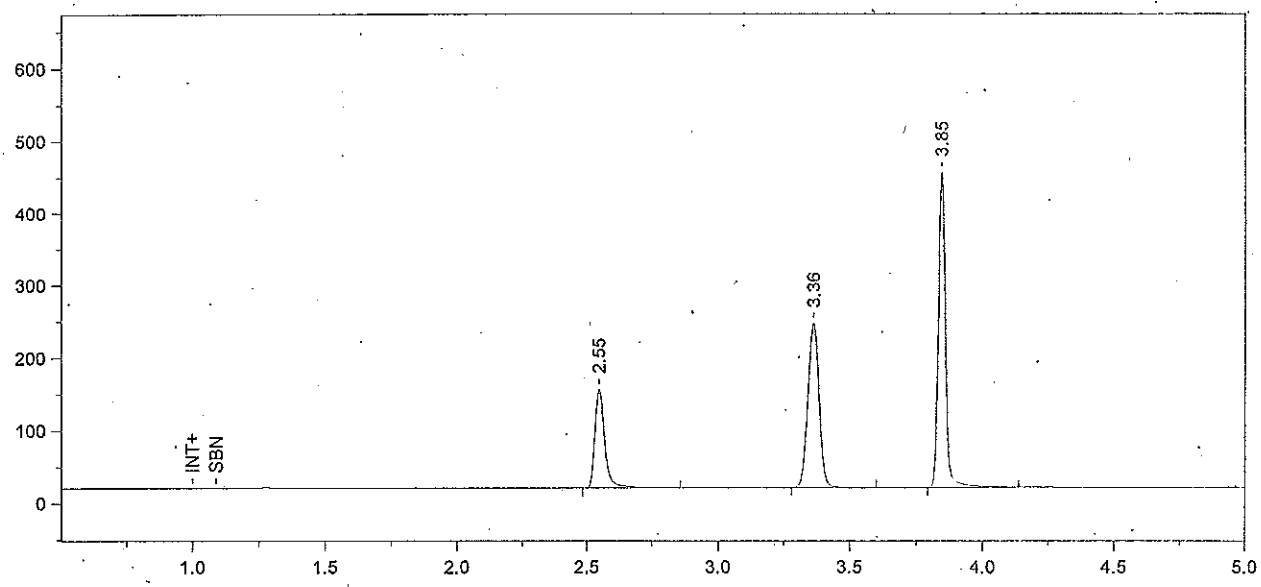
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	539894	0.1230	0.1004
2	3.36	t-Butanol	669134	0.9992	0.8156
3	3.84	n-Propanol	826466	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012
Today's Time = 8:05:04 PM
Bound File Name = Sim011912.0017.RAW
Sample Name = CCS B
Date Taken = 1/19/2012 8:04:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	355907	0.0809	0.0660
2	3.36	t-Butanol	670747	0.9994	0.8157
3	3.85	n-Propanol	828284	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/19/2012 Today's Time = 8:20:03 PM
Bound File Name = Sim011912.0018.RAW
Sample Name = CCS B
Date Taken = 1/19/2012 8:19:57 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 206

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	357716	0.0819	0.0668
2	3.36	t-Butanol	668013	1.0022	0.8180
3	3.85	n-Propanol	822590	1.0000	0.8162

File Name: C:\Methods\SimSolution.cal
Version: 215

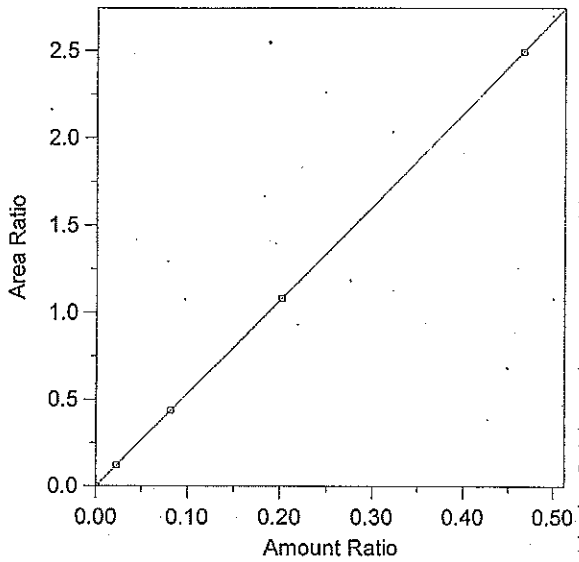
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 15000
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: 2.559 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

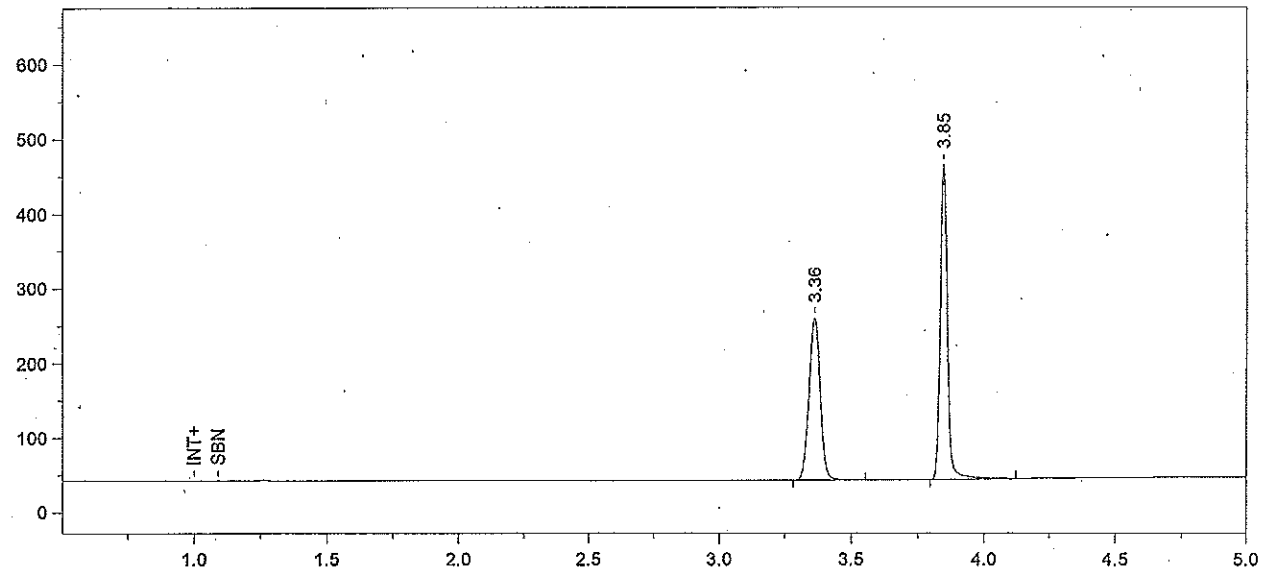
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.354762 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999969
Average error: 0.156%
Average CF: 4.289133
RSD: 55.902%

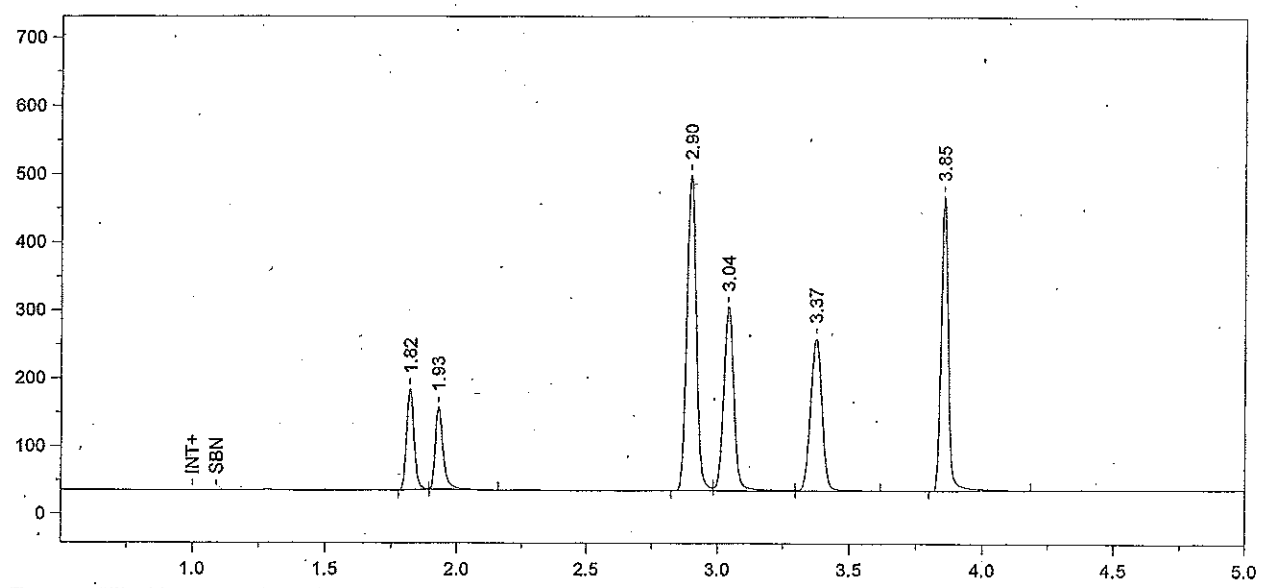
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	96299.98	4318385	-0.082	0.0223	0.1193133	C:\Alcohol Data\Sim012012\Sim012012.0003.BND	1/23/2012 7:35:03 AM
3	0.0814	349740.7	4296569	0.378	0.0814	0.4375251	C:\Alcohol Data\Sim012012\Sim012012.0004.BND	1/23/2012 7:35:11 AM
4	0.2016	869115.7	4311090	0.261	0.2016	1.082341	C:\Alcohol Data\Sim012012\Sim012012.0005.BND	1/23/2012 7:35:19 AM
5	0.466	2031631	4359724	-0.060	0.466	2.493815	C:\Alcohol Data\Sim012012\Sim012012.0006.BND	1/23/2012 7:35:26 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:06 AM
Bound File Name = Sim012012.0001.RAW
Sample Name = Blank
Date Taken = 1/20/2012 5:15:38 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

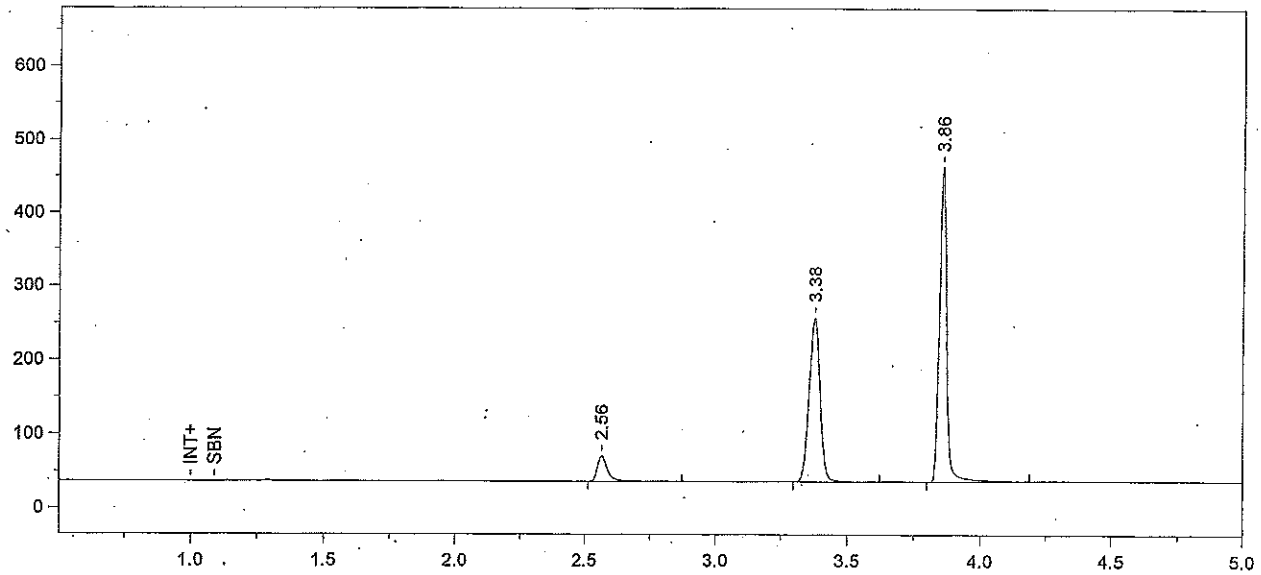
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.36	t-Butanol	643126	1.0083	0.8230
2	3.85	n-Propanol	791447	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:38:09 AM
Bound File Name = Sim012012.0002.RAW
Sample Name = TMX
Date Taken = 1/20/2012 5:30:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

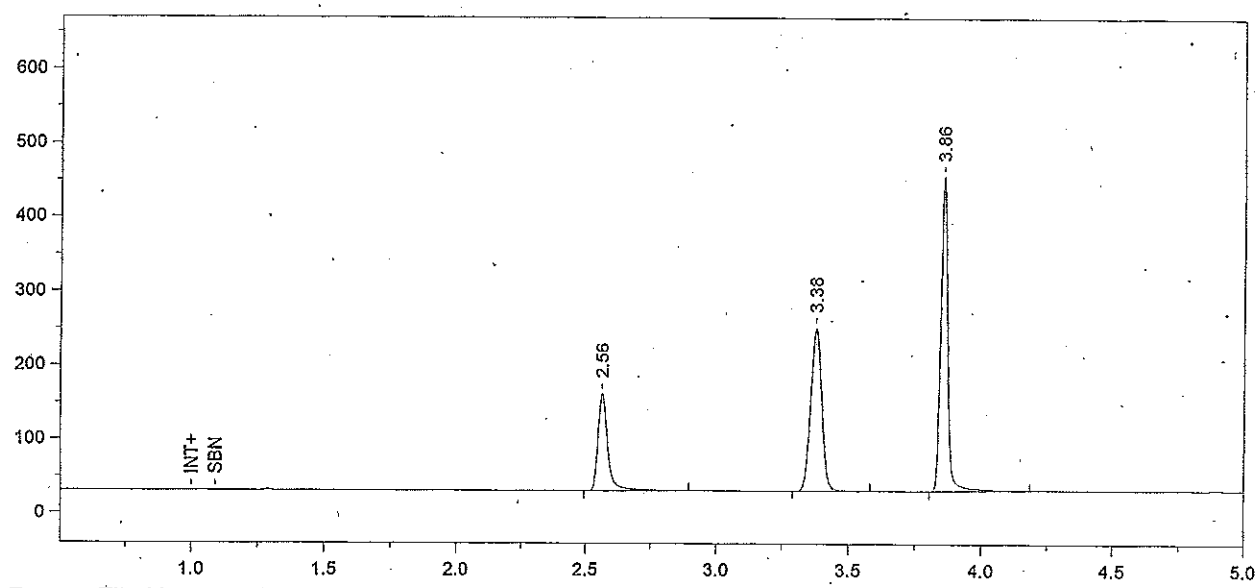
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.82	Acetaldehyde	289896	0.0510	0.0416
2	1.93	Methanol	250350	0.1280	0.1045
3	2.90	Acetone	1156166	0.0600	0.0490
4	3.04	Isopropanol	730460	0.0810	0.0661
5	3.37	t-Butanol	661625	1.0068	0.8218
6	3.85	n-Propanol	815414	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:12 AM
Bound File Name = Sim012012.0003.RAW
Sample Name = Std A
Date Taken = 1/20/2012 5:45:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

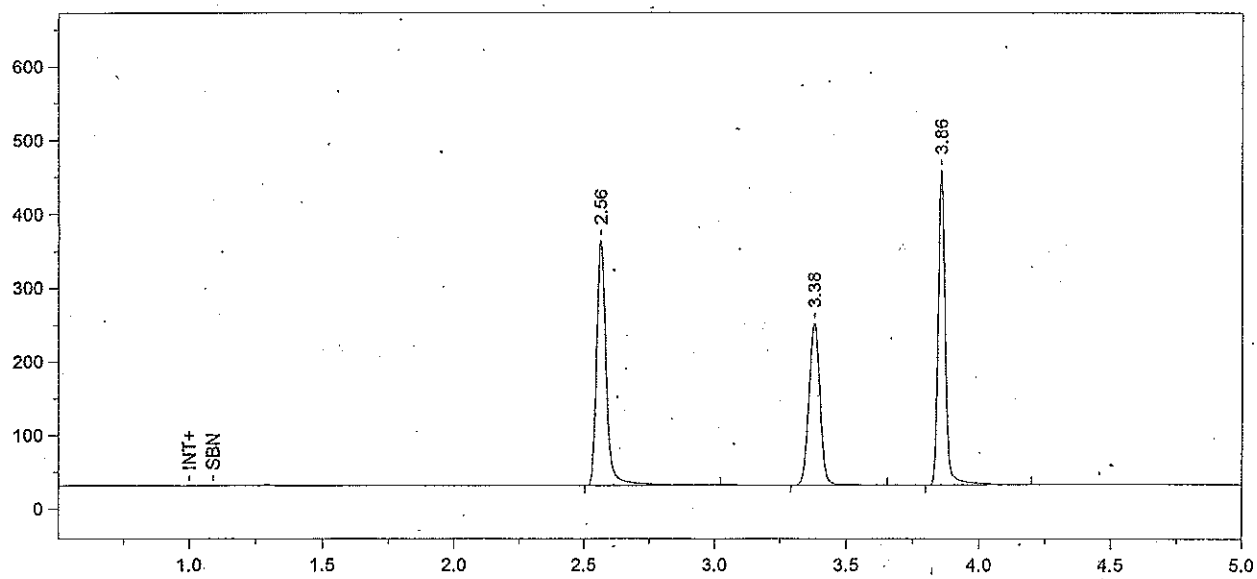
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	96300	0.0223	0.0182
2	3.38	t-Butanol	650445	1.0000	0.8162
3	3.86	n-Propanol	807119	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:16 AM
Bound File Name = Sim012012.0004.RAW
Sample Name = Std B
Date Taken = 1/20/2012 6:00:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

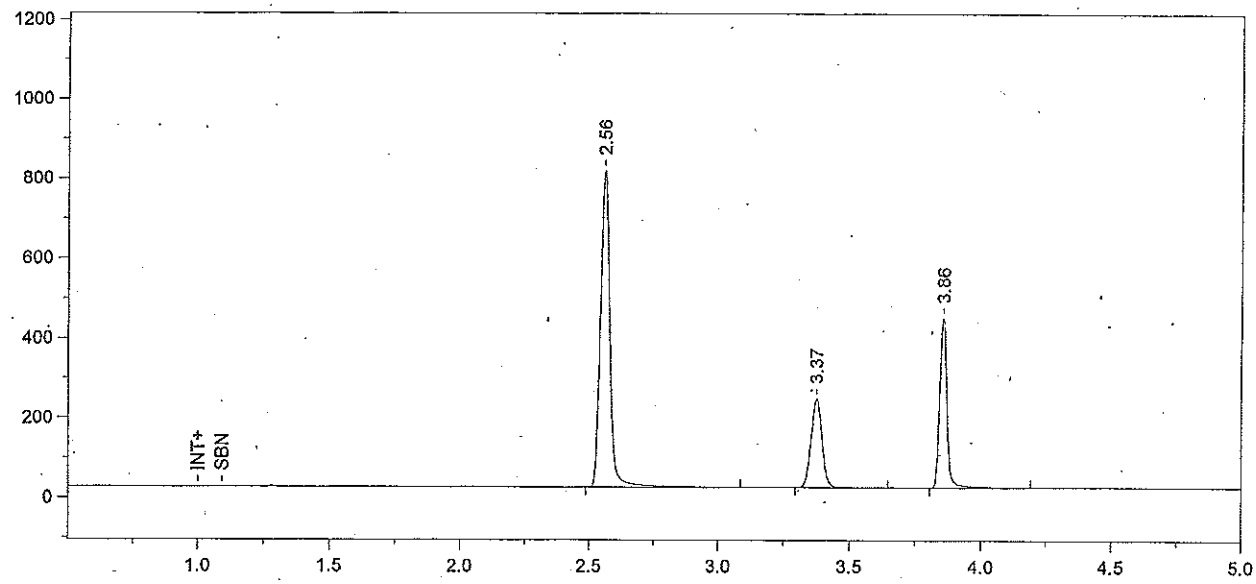
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	349741	0.0817	0.0667
2	3.38	t-Butanol	643171	0.9984	0.8149
3	3.86	n-Propanol	799361	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:38:20 AM
Bound File Name = Sim012012.0005.RAW
Sample Name = Std C
Date Taken = 1/20/2012 6:15:11 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

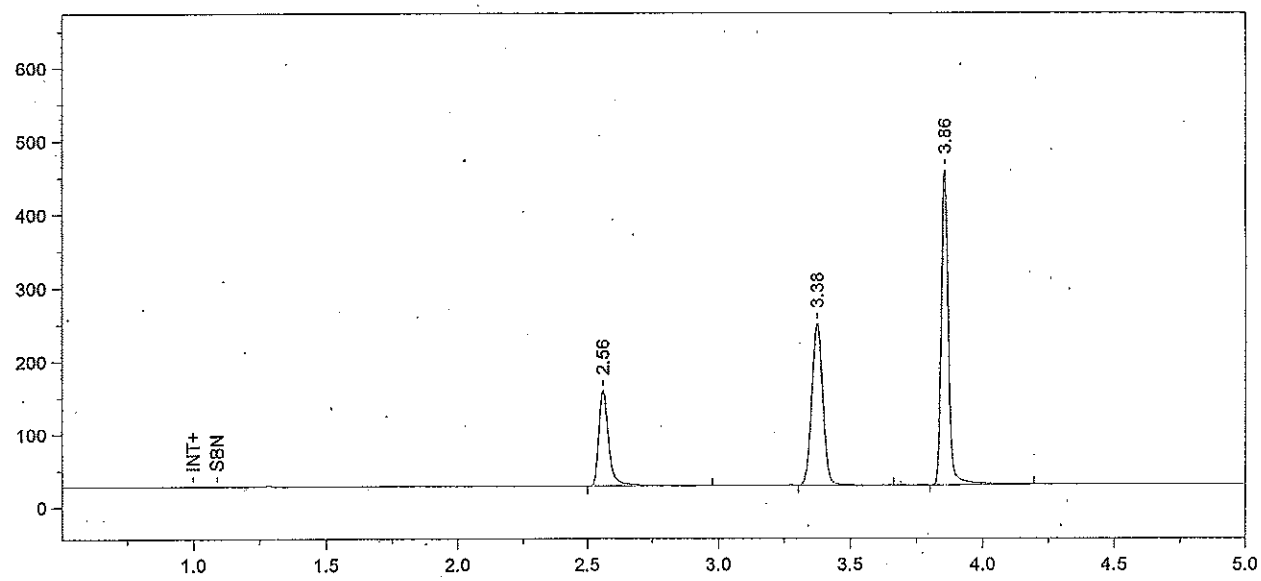
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	869116	0.2021	0.1650
2	3.38	t-Butanol	645649	0.9977	0.8143
3	3.86	n-Propanol	802996	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:23 AM
Bound File Name = Sim012012.0006.RAW
Sample Name = Std D
Date Taken = 1/20/2012 6:30:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

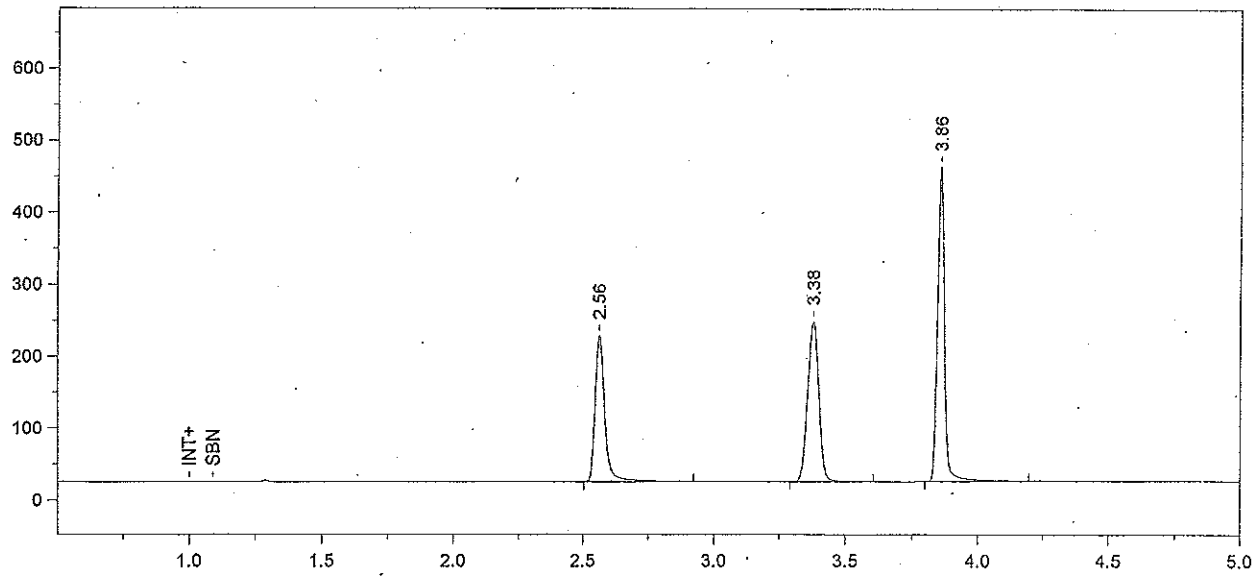
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	2031631	0.4657	0.3801
2	3.37	t-Butanol	654680	0.9972	0.8139
3	3.86	n-Propanol	814668	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:38:27 AM
Bound File Name = Sim012012.0007.RAW
Sample Name = AQ QC
Date Taken = 1/20/2012 6:45:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

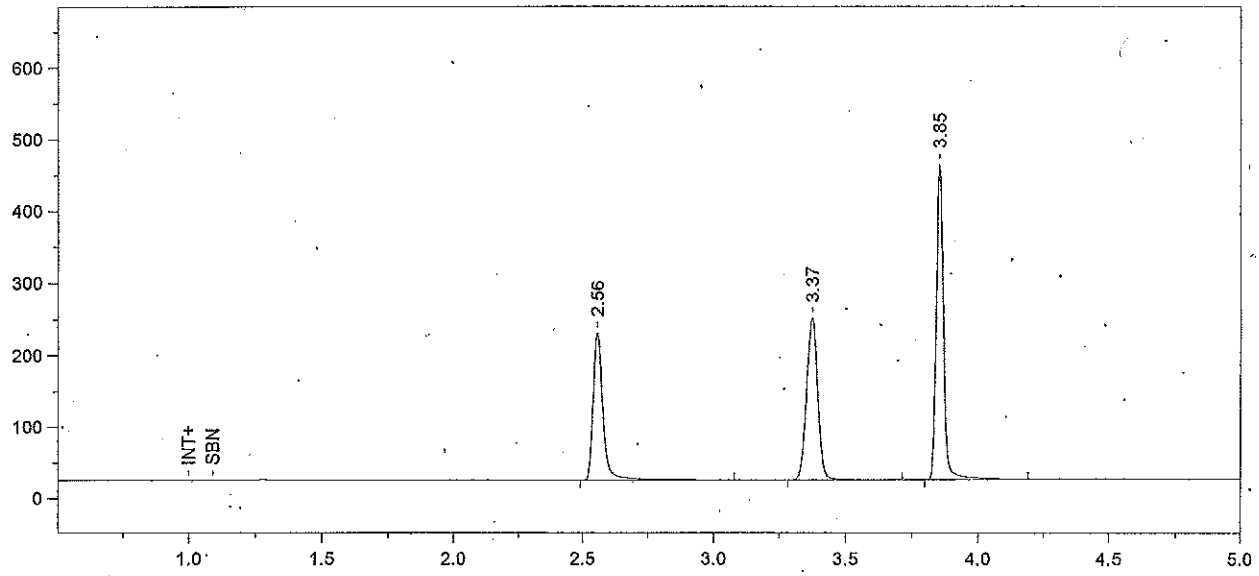
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	352073	0.0811	0.0662
2	3.38	t-Butanol	649174	0.9938	0.8112
3	3.86	n-Propanol	810519	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:30 AM
Bound File Name = Sim012012.0008.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 7:00:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

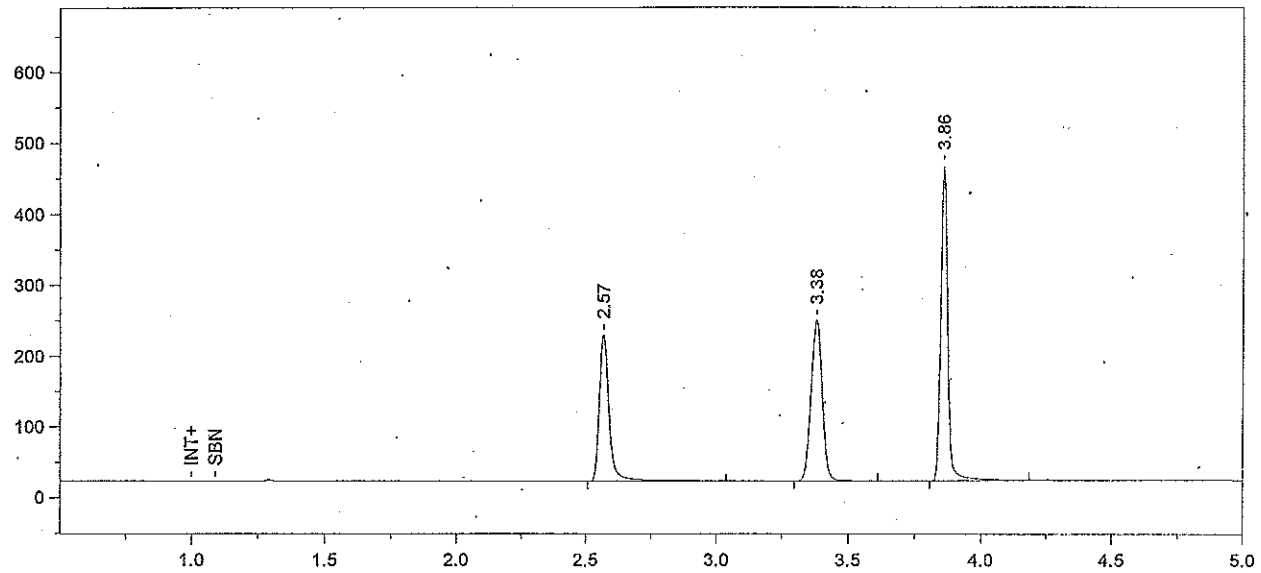
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	535856	0.1220	0.0996
2	3.38	t-Butanol	655750	0.9922	0.8099
3	3.86	n-Propanol	820053	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:38:34 AM
Bound File Name = Sim012012.0009.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 7:15:13 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

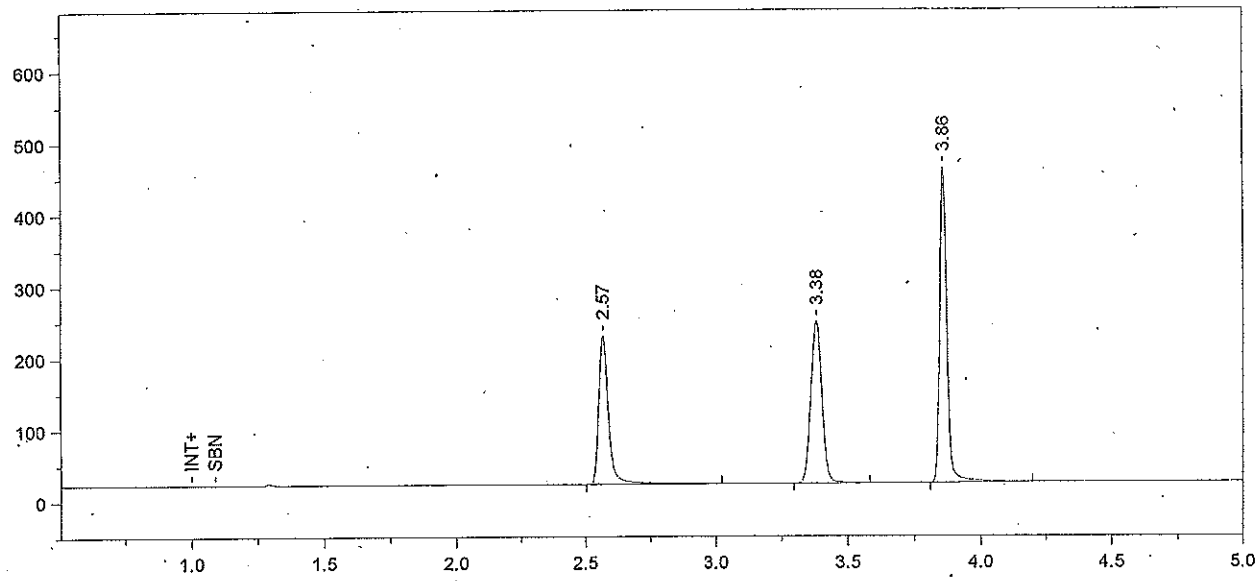
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	548518	0.1235	0.1008
2	3.37	t-Butanol	666432	0.9971	0.8139
3	3.85	n-Propanol	829313	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:38:38 AM
Bound File Name = Sim012012.0010.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 7:30:14 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

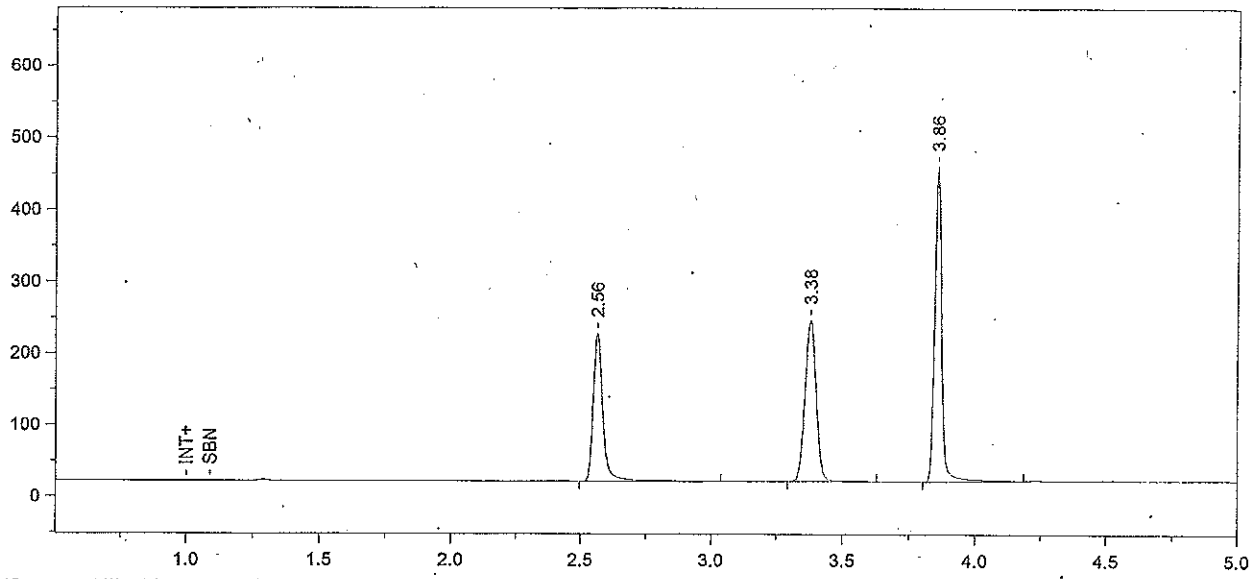
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	547727	0.1230	0.1004
2	3.38	t-Butanol	665352	0.9929	0.8104
3	3.86	n-Propanol	831492	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:42 AM
Bound File Name = Sim012012.0011.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 7:45:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

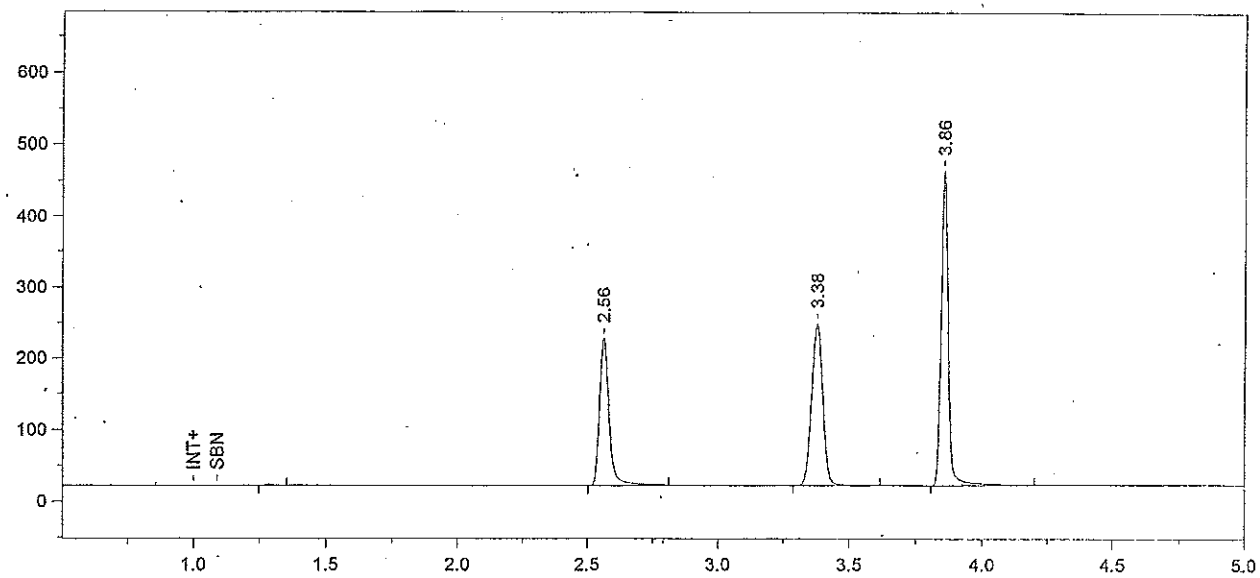
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	545389	0.1229	0.1003
2	3.38	t-Butanol	661070	0.9901	0.8081
3	3.86	n-Propanol	828503	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:47 AM
Bound File Name = Sim012012.0012.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 8:00:16 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

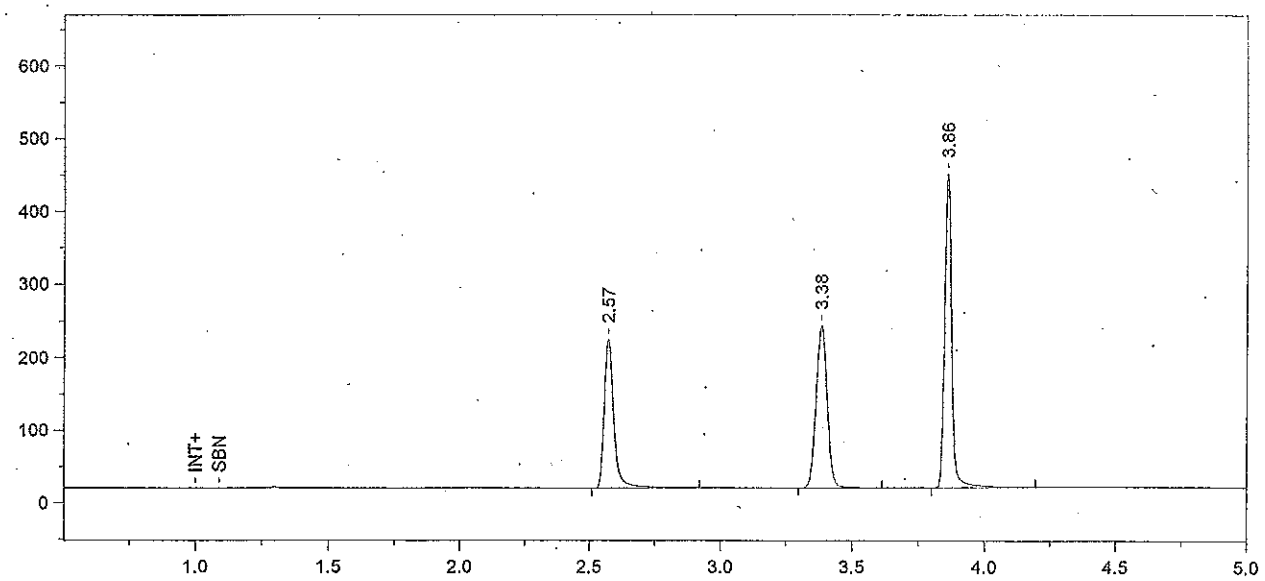
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	546357	0.1230	0.1004
2	3.38	t-Butanol	663879	0.9928	0.8103
3	3.86	n-Propanol	829740	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:51 AM
Bound File Name = Sim012012.0013.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 8:15:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

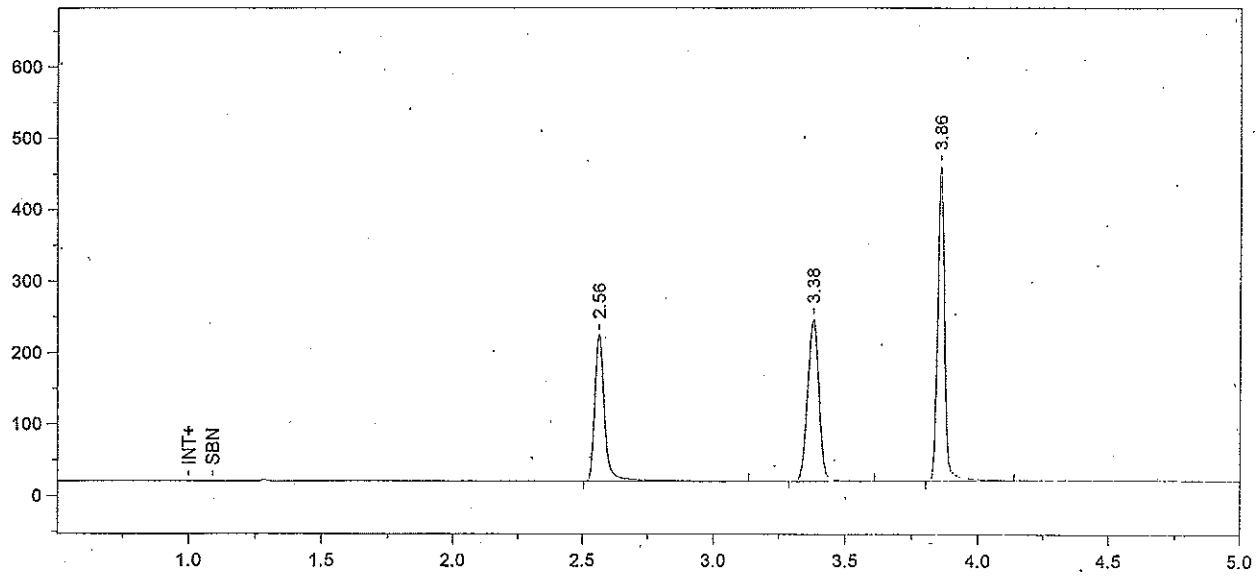
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.56	Ethanol	531525	0.1202	0.0981
3	3.38	t-Butanol	661708	0.9942	0.8115
4	3.86	n-Propanol	825854	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:38:54 AM
Bound File Name = Sim012012.0014.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 1/20/2012 8:30:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

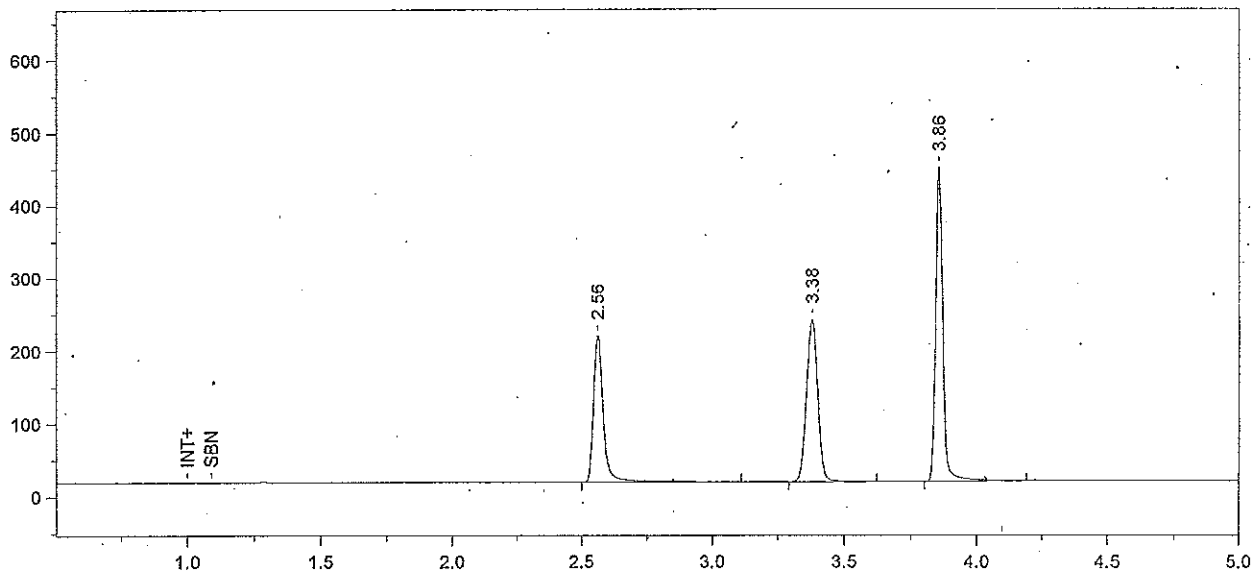
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	534142	0.1218	0.0994
2	3.38	t-Butanol	654256	0.9915	0.8093
3	3.86	n-Propanol	818749	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:38:57 AM
Bound File Name = Sim012012.0015.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 8:45:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

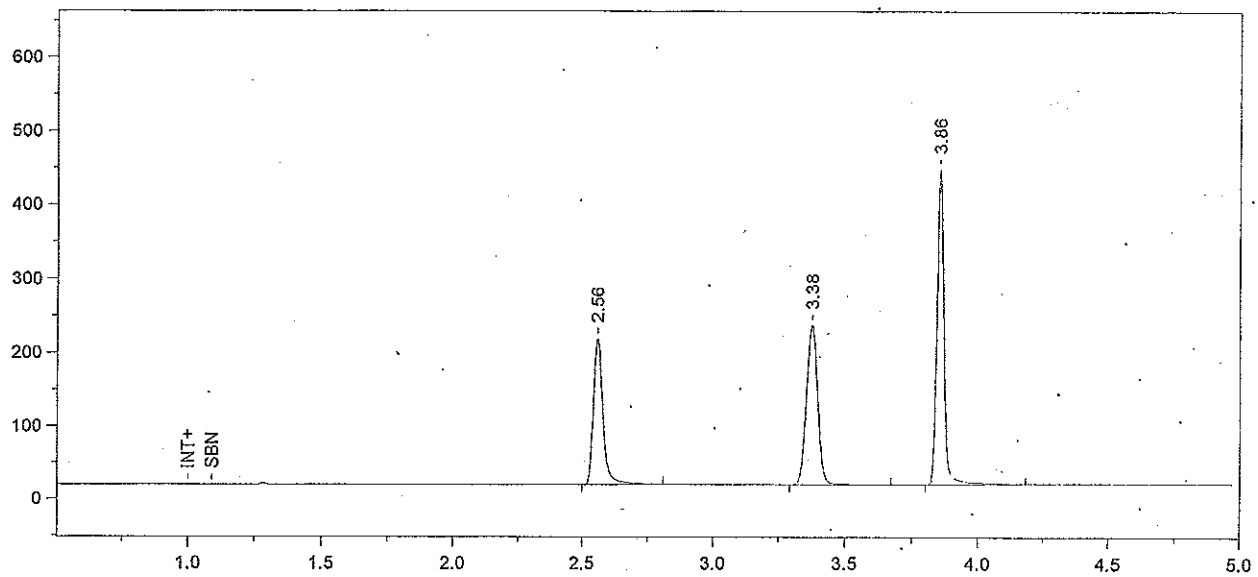
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	545243	0.1234	0.1007
2	3.38	t-Butanol	664458	0.9993	0.8156
3	3.86	n-Propanol	825046	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:00 AM
Bound File Name = Sim012012.0016.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 9:00:23 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

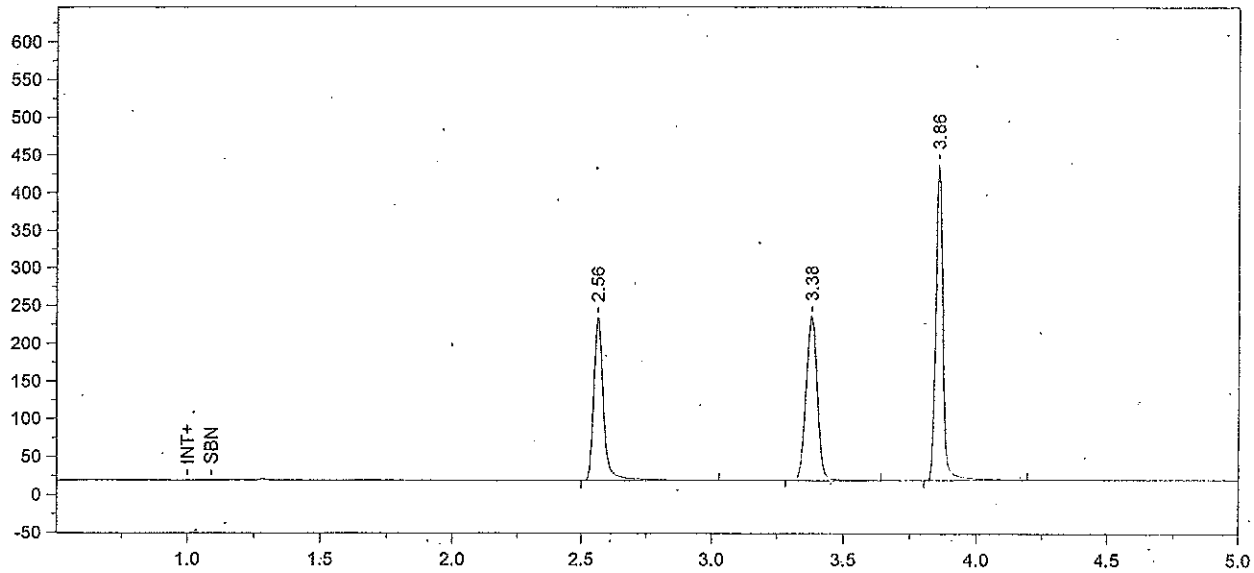
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	534878	0.1234	0.1007
2	3.38	t-Butanol	650592	0.9969	0.8137
3	3.86	n-Propanol	809781	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012
Today's Time = 7:39:03 AM
Bound File Name = Sim012012.0017.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 9:15:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 215

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	518874	0.1207	0.0985
2	3.38	t-Butanol	643316	0.9945	0.8118
3	3.86	n-Propanol	802622	1.0000	0.8162

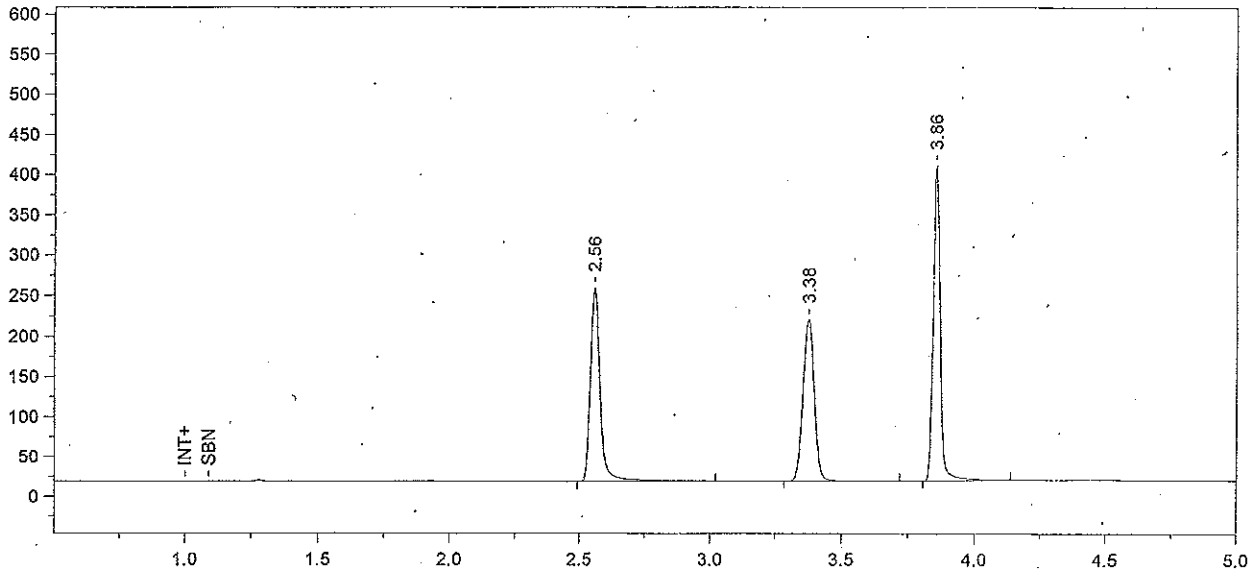


Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:06 AM
Bound File Name = Sim012012.0018.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 9:30:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	564930	0.1337	0.1091
2	3.38	t-Butanol	633109	0.9954	0.8125
3	3.86	n-Propanol	789205	1.0000	0.8162

Point dropped because the value is > 3 std. dev. of the FOA average. 01/23/12 [illegible] 1-23-12

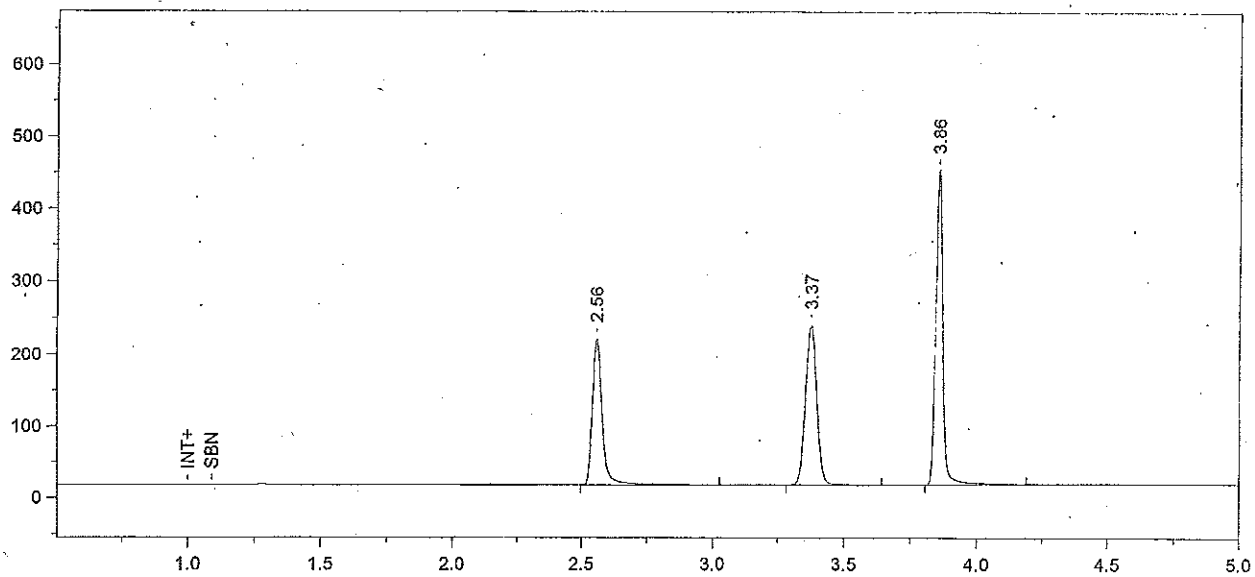


Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:09 AM
Bound File Name = Sim012012.0019.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 9:45:31 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	633277	0.1607	0.1312
2	3.38	t-Butanol	595965	1.0051	0.8204
3	3.86	n-Propanol	735708	1.0000	0.8162

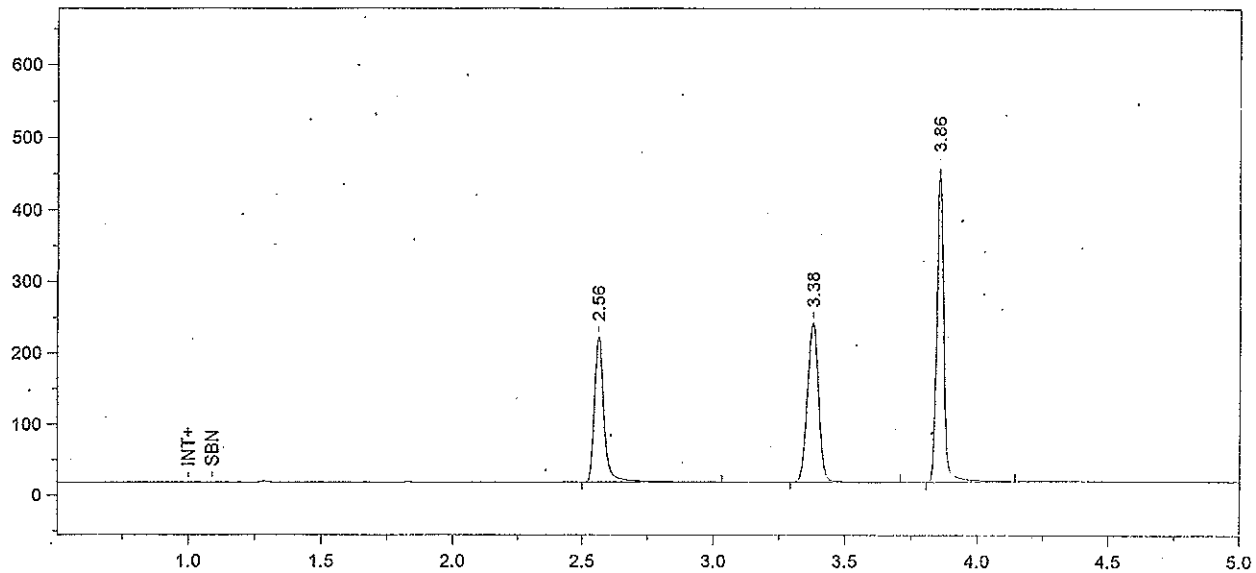
Point dropped because the value is > 3 std. dev. of the run average. 01/23/12 [illegible] 1-23-12



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:12 AM
Bound File Name = Sim012012.0020.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 10:00:33 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

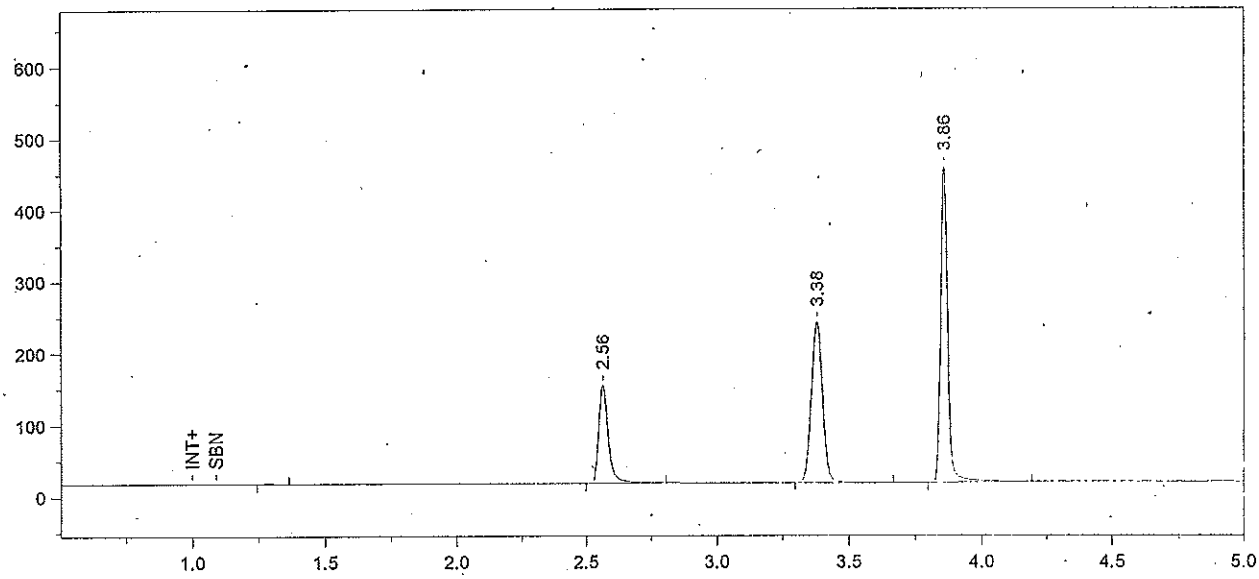
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	538767	0.1229	0.1003
2	3.37	t-Butanol	657007	0.9958	0.8128
3	3.86	n-Propanol	818682	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:15 AM
Bound File Name = Sim012012.0021.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 1/20/2012 10:15:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

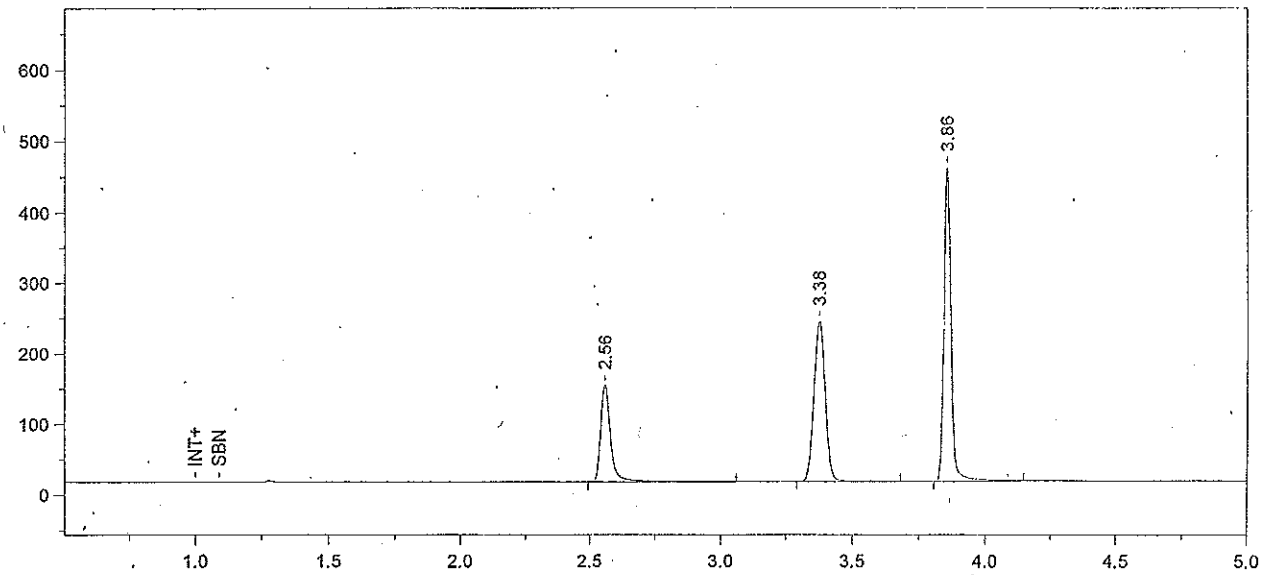
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	538475	0.1227	0.1001
2	3.38	t-Butanol	660564	1.0000	0.8162
3	3.86	n-Propanol	819654	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:18 AM
Bound File Name = Sim012012.0022.RAW
Sample Name = CCS B
Date Taken = 1/20/2012 10:30:30 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.56	Ethanol	356354	0.0806	0.0658
3	3.38	t-Butanol	661152	0.9932	0.8107
4	3.86	n-Propanol	825983	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/23/2012 Today's Time = 7:39:21 AM
Bound File Name = Sim012012.0023.RAW
Sample Name = CCS B
Date Taken = 1/20/2012 10:45:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 215

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	368804	0.0825	0.0673
2	3.38	t-Butanol	671880	0.9988	0.8152
3	3.86	n-Propanol	834707	1.0000	0.8162