Vermont Department of Health Laboratory
Organic Chemistry Program

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Certificate of Analysis of DataMaster Calibration Check Solution

On 2/16/2012, an ethanol solution was prepared by Steven Merrill for use as a DataMaster Calibration Check solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-61-100 and an expiration date of 2/16/2013.

On 2/18/2012 and 2/21/2012, the solution was analyzed against calibration Cal Version #237 and Cal Version #242. 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 0.101 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Calibration Check solution.

Dated at Burlington, Vermont on Wednesday, February 22, 2012.

Steven Merrill

0.1 Calibration Check Solution 2L
Lot # 12-61-100
Prepared 02/16/2012 by SRM
Exp 02/16/2013

JFH CAL Version 237
SRM/JFH Vials
Analyzed on 02/17/2012

0.1019 srm
0.1018
0.1017
0.0996
0.0998
0.1014
0.1000
0.0996 jfh
0.0999
0.1041
0.1023
0.1000
0.1024
0.1012

Ave. = 0.1011
Std Dev. = 0.0014
Range = 0.0996 - 0.1041

SRM CAL Version 242
SRM/KLK Vials
Analyzed on 02/21/2012

0.1021 srm
0.1020
0.1022
0.1021
0.1003
0.1020
0.0999
0.1016 klk
0.1004
0.0991
0.0998
0.1000
~~0.2027~~
0.1020

Ave. = 0.1010
Std Dev. = 0.0011
Range = 0.0991 - 0.1022

Total Values from Both Runs

Average	Mean
0.0991	0.0991
0.0996	0.0996
0.0996	
0.0998	0.0998
0.0998	
0.0999	0.0999
0.0999	
0.1000	0.1000
0.1000	
0.1000	
0.1003	0.1003
0.1004	0.1004
0.1012	0.1012
0.1014	0.1014
0.1016	0.1016
0.1017	0.1017
0.1018	0.1018
0.1019	0.1019
0.1020	0.1020
0.1020	
0.1020	
0.1021	0.1021
0.1021	
0.1022	0.1022
0.1023	0.1023
0.1024	0.1024
0.1041	0.1041

Ave. =	0.1011
Std Dev. =	0.0012
Range =	0.0991 - 0.1041
Mean =	0.1013
Mean Std Dev. =	0.0013
RPD (Mean to Ave.)=	0.20%

Reviewed 2/22/12

Reviewed 2-22-12

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

DataMaster Cal. Check Solution
Lot # 12-61-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.098 – 0.104
Preparation Date: 02/16/2012 Expires: 02/16/2013

OPENED:

Chrom Perfect Calibration File

File Name: C:\Methods\5890 Blood Methods\SimSolution.cal
Version: 237

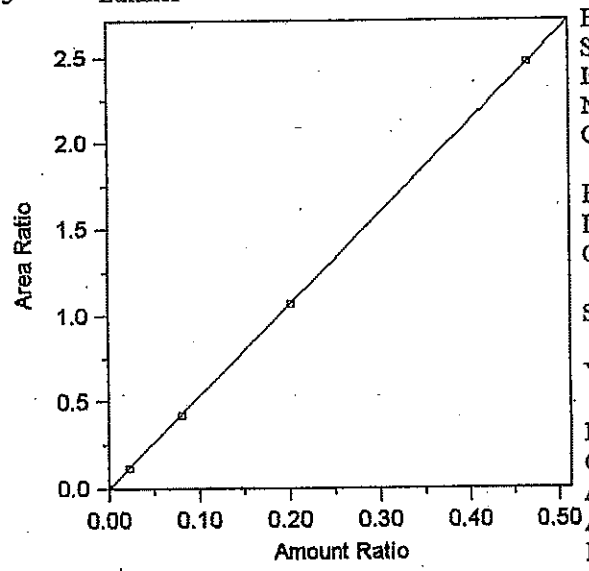
Creator:
Description:
Reason for change:

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

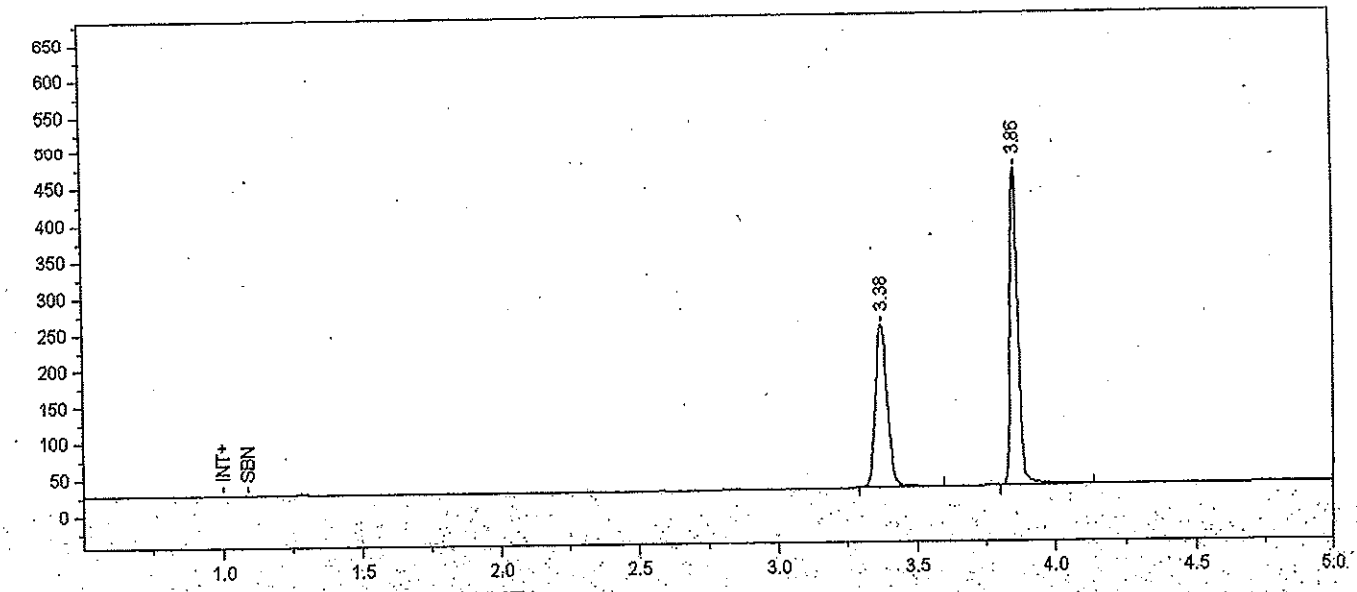
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.291643 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999601
Average error: 1.103%
Average CF: 4.177298
RSD: 55.927%

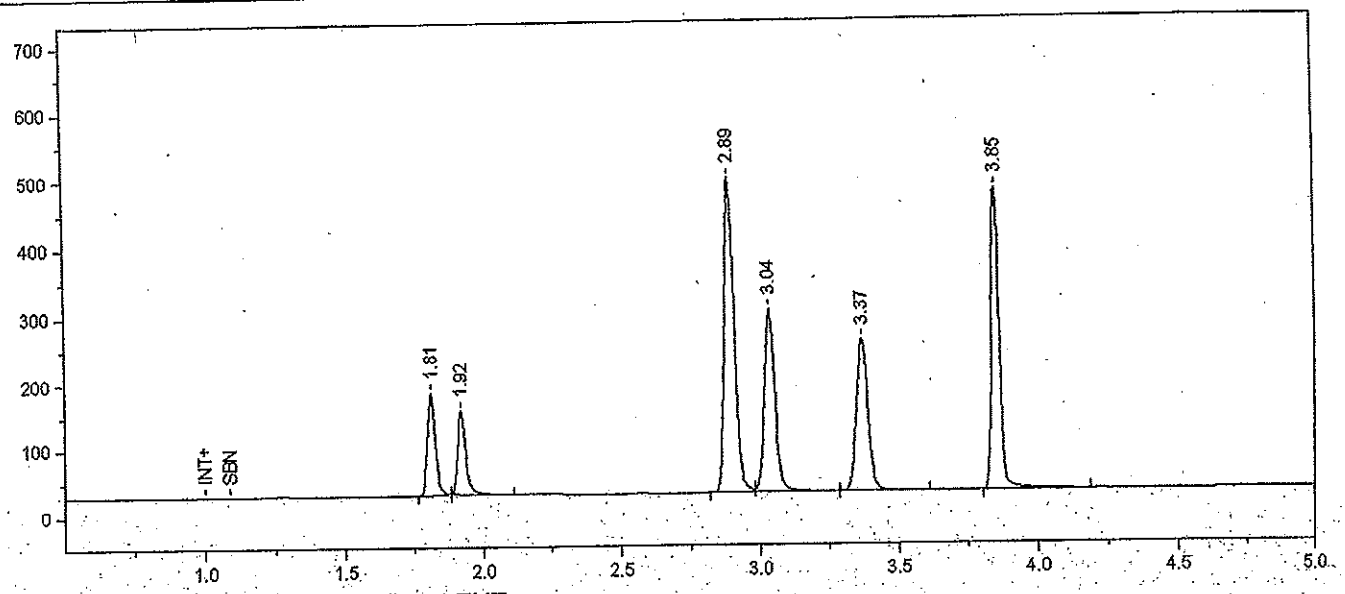
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	96326.05	4319554	-2.488	0.0223	0.115068	C:\Blood Alc\Sim021412\Sim021412.0003.BND	2/14/2012 10:48:18 AM
3	0.0814	349550	4294226	-2.811	0.0814	0.4186298	C:\Blood Alc\Sim021412\Sim021412.0004.BND	2/14/2012 11:03:19 AM
4	0.2016	885656.3	4393137	-0.105	0.2016	1.065677	C:\Blood Alc\Sim021412\Sim021412.0005.BND	2/14/2012 11:18:26 AM
5	0.466	2047520	4393820	0.111	0.466	2.468645	C:\Blood Alc\Sim021412\Sim021412.0006.BND	2/14/2012 11:33:18 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 4:05:40 PM
Bound File Name = Sim021412.0001.RAW
Sample Name = Blank
Date Taken = 2/14/2012 10:18:37 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.38	t-Butanol	654430	1.0088	0.8234
2	3.86	n-Propanol	808265	1.0000	0.8162



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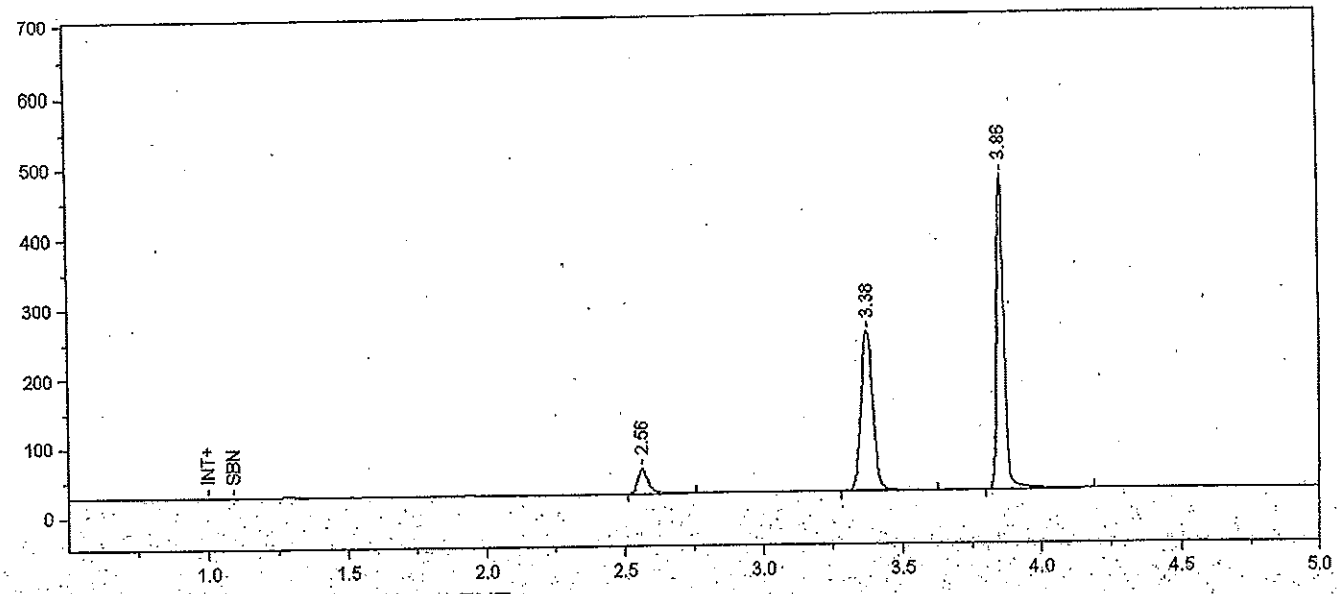
Today's Time = 4:05:44 PM
Bound File Name = Sim021412.0002.RAW
Sample Name = TMX
Date Taken = 2/14/2012 10:33:14 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

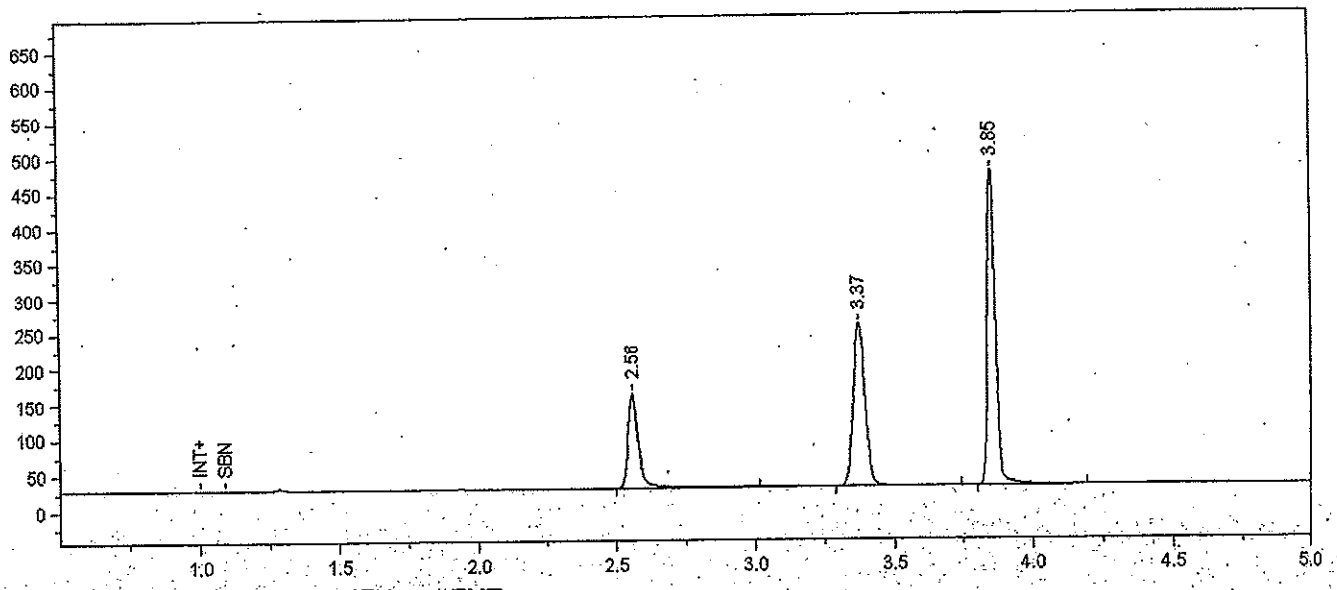
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.81	Acetaldehyde	305023	0.0510	0.0416
2	1.92	Methanol	254501	0.1280	0.1045
3	2.89	Acetone	1163298	0.0600	0.0490
4	3.04	Isopropanol	739243	0.0810	0.0661
5	3.37	t-Butanol	673989	1.0023	0.8181
6	3.85	n-Propanol	837813	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 4:05:49 PM
Bound File Name = Sim021412.0003.RAW
Sample Name = Std A
Date Taken = 2/14/2012 10:48:16 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	96326	0.0217	0.0177
2	3.38	t-Butanol	671243	0.9990	0.8154
3	3.86	n-Propanol	837123	1.0000	0.8162



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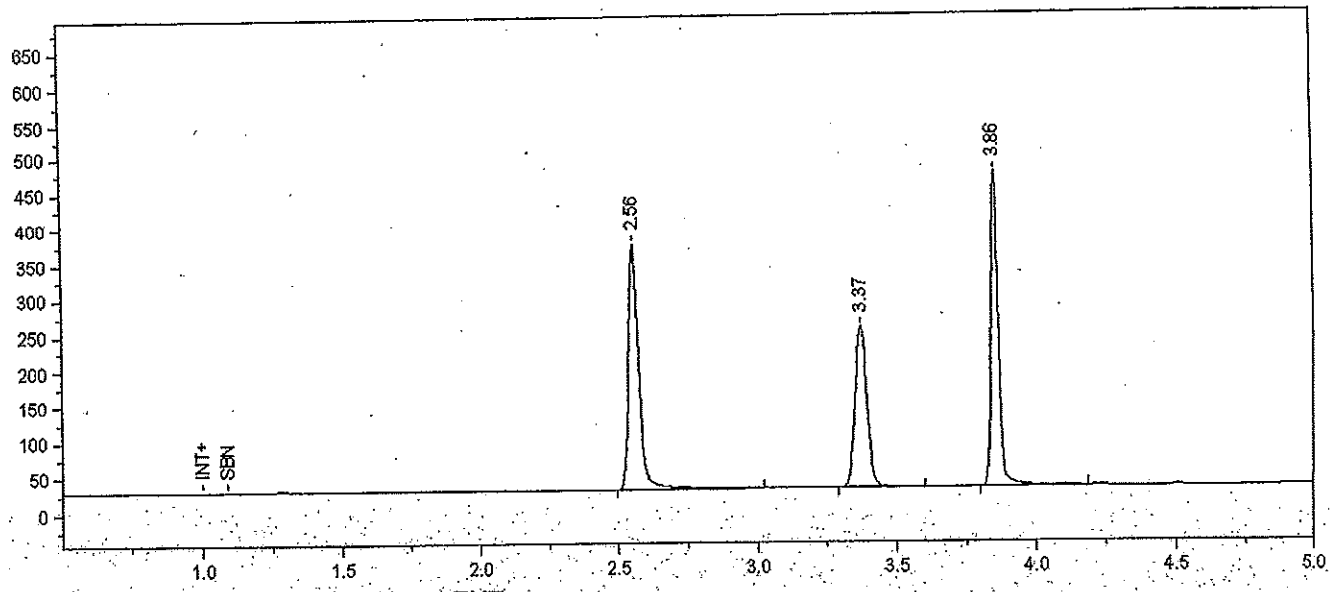
Today's Date = 2/14/2012
Today's Time = 4:05:53 PM
Bound File Name = Sim021412.0004.RAW
Sample Name = Std B
Date Taken = 2/14/2012 11:03:17 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

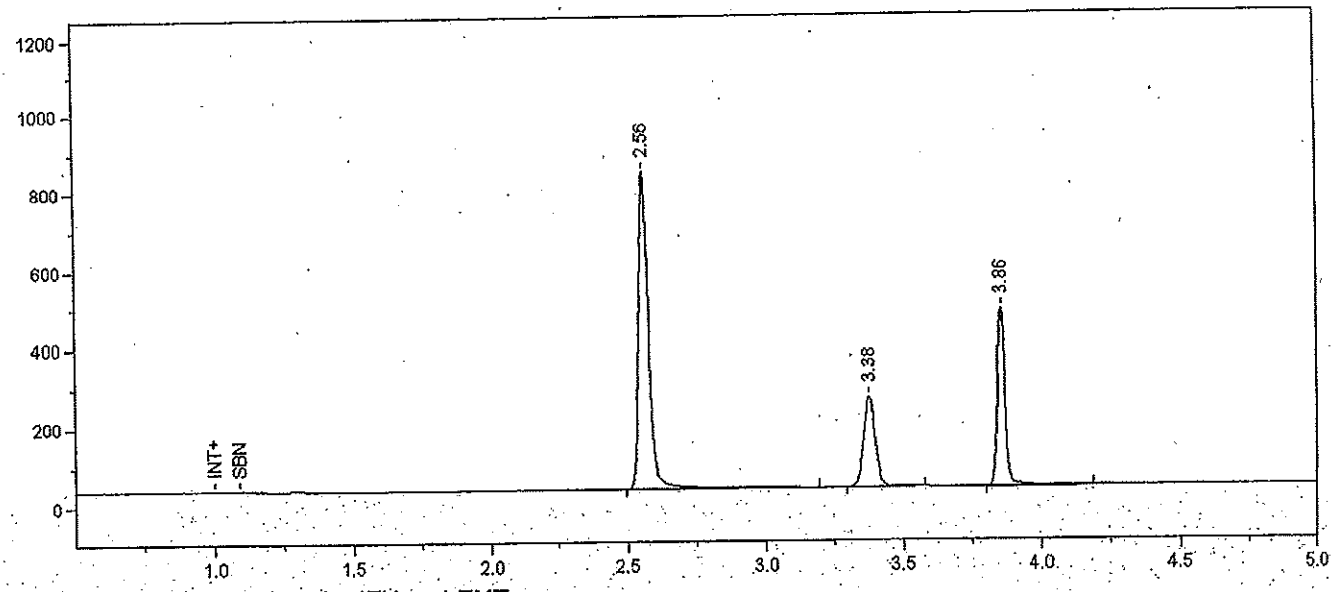
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	349550	0.0791	0.0646
2	3.37	t-Butanol	672032	1.0028	0.8185
3	3.85	n-Propanol	834986	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 4:05:58 PM
Bound File Name = Sim021412.0005.RAW
Sample Name = Std C
Date Taken = 2/14/2012 11:18:18 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

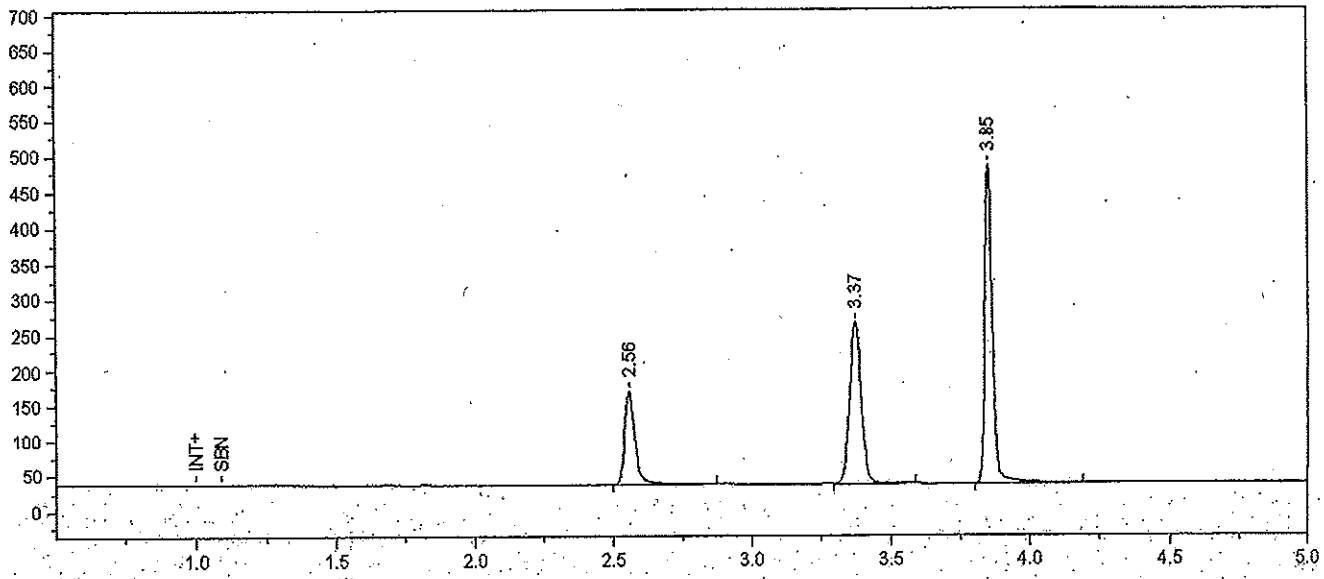
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	885656	0.2014	0.1644
2	3.37	t-Butanol	666618	0.9994	0.8157
3	3.86	n-Propanol	831074	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 4:06:03 PM
Bound File Name = Sim021412.0006.RAW
Sample Name = Std D
Date Taken = 2/14/2012 11:33:17 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	2047520	0.4665	0.3808
2	3.38	t-Butanol	663384	0.9965	0.8134
3	3.86	n-Propanol	829410	1.0000	0.8162



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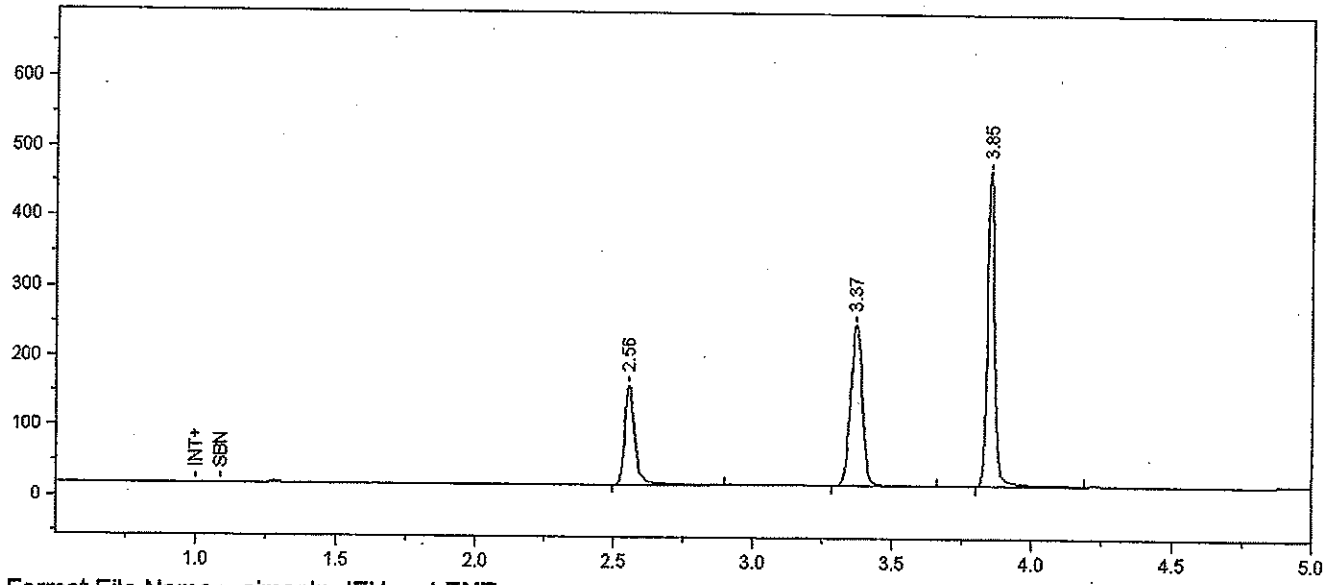
Today's Time = 4:06:08 PM
Bound File Name = Sim021412.0007.RAW
Sample Name = AQ QC
Date Taken = 2/14/2012 11:48:24 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

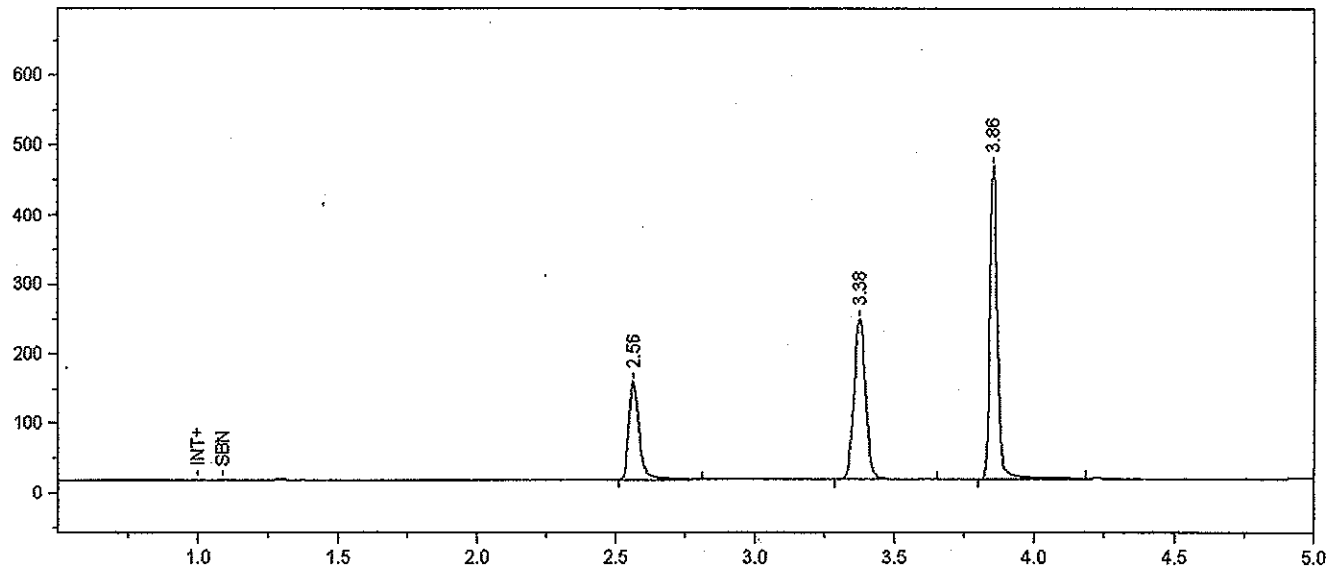
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	349518	0.0790	0.0645
2	3.37	t-Butanol	667768	0.9957	0.8127
3	3.85	n-Propanol	835594	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:05:35 AM
Bound File Name = Sim021712.0017.RAW
Sample Name = CCS B
Date Taken = 2/17/2012 1:42:21 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

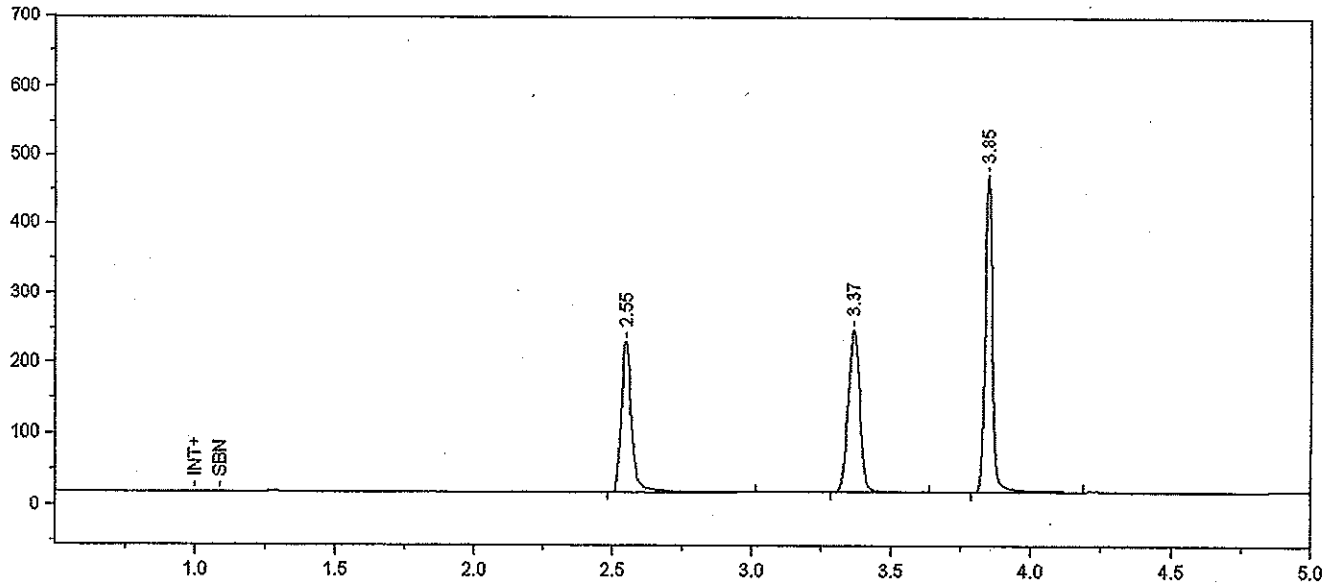
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	371856	0.0826	0.0674
2	3.37	t-Butanol	678016	0.9934	0.8108
3	3.85	n-Propanol	850407	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 9:05:40 AM
Bound File Name = Sim021712.0018.RAW
Sample Name = CCS B
Date Taken = 2/17/2012 1:57:21 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 237

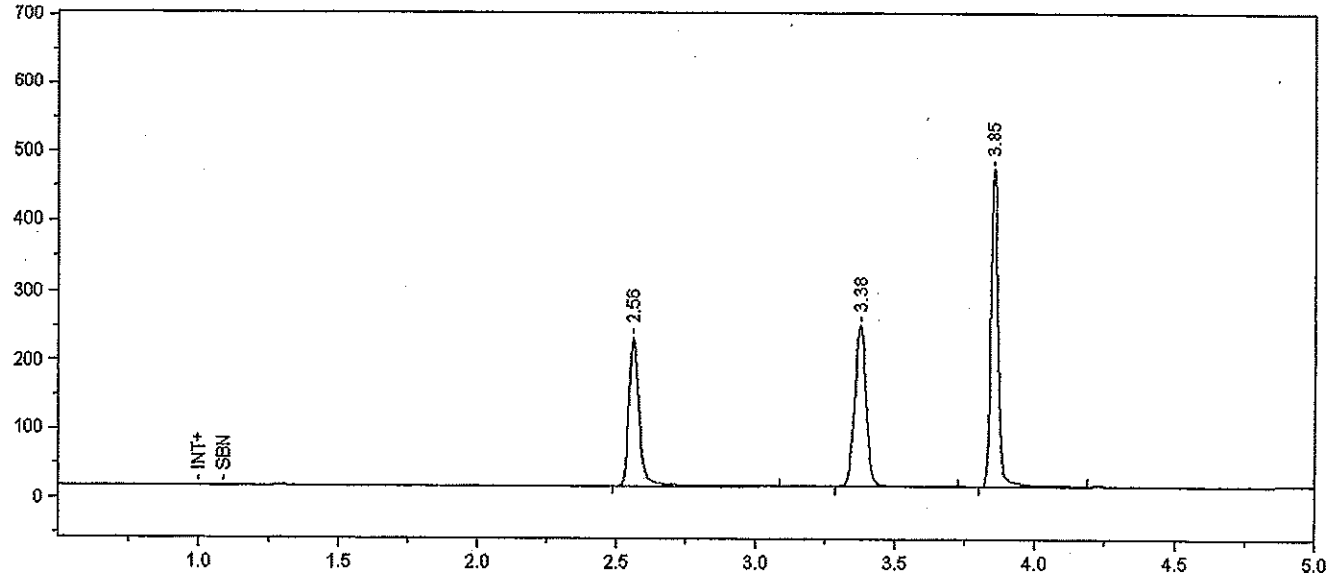
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	364553	0.0813	0.0663
2	3.38	t-Butanol	675797	0.9933	0.8107
3	3.86	n-Propanol	847676	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:05:45 AM
Bound File Name = Sim021712.0019.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 2:12:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

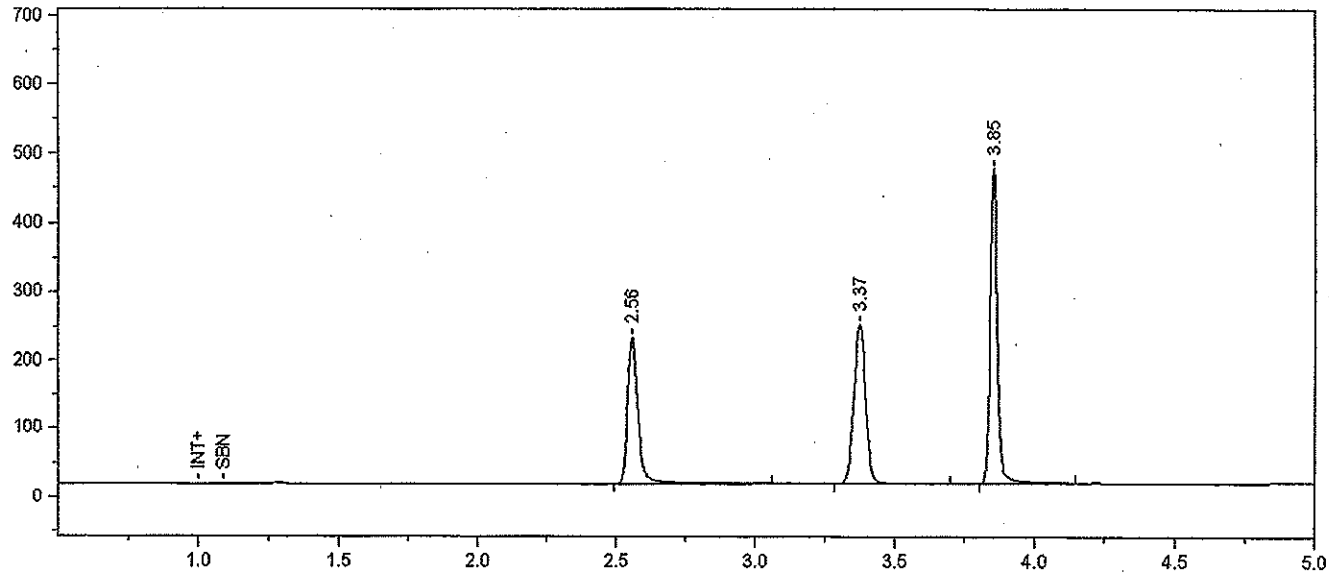
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	558325	0.1248	0.1019
2	3.37	t-Butanol	675592	0.9956	0.8126
3	3.85	n-Propanol	845456	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:05:50 AM
Bound File Name = Sim021712.0020.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 2:27:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

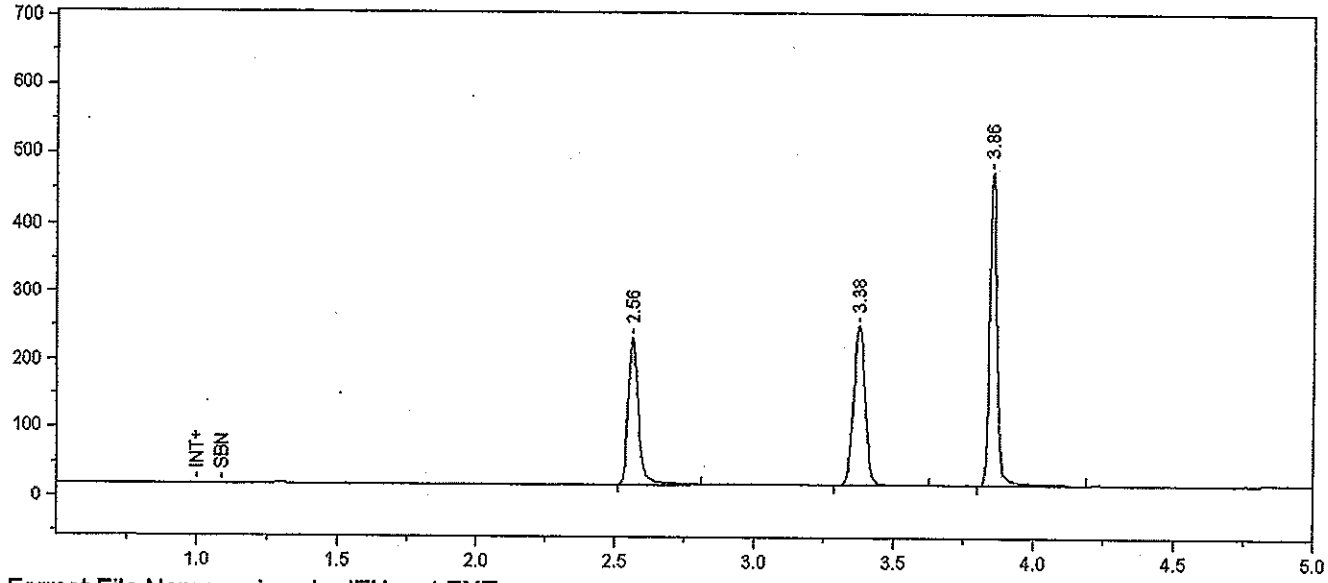
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	566291	0.1247	0.1018
2	3.38	t-Butanol	686647	0.9971	0.8138
3	3.85	n-Propanol	858000	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:05:55 AM
Bound File Name = Sim021712.0021.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 2:42:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

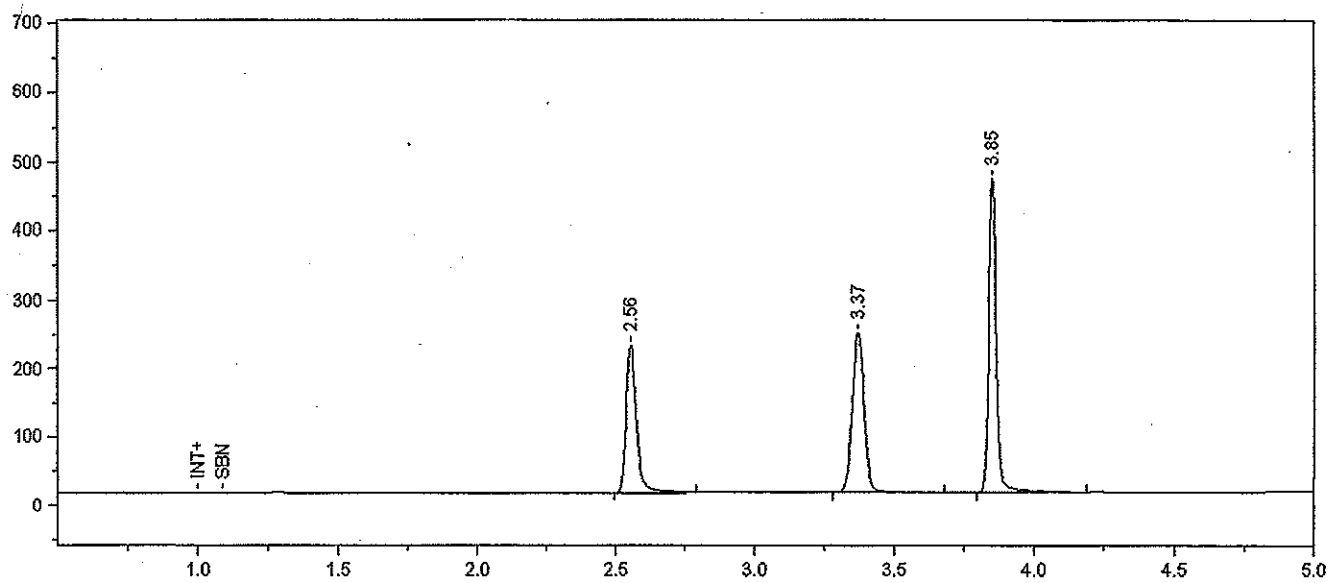
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	565134	0.1246	0.1017
2	3.37	t-Butanol	689168	1.0018	0.8177
3	3.85	n-Propanol	857069	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:01 AM
Bound File Name = Sim021712.0022.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 2:57:25 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	553878	0.1221	0.0996
2	3.38	t-Butanol	684456	0.9946	0.8118
3	3.86	n-Propanol	857426	1.0000	0.8162



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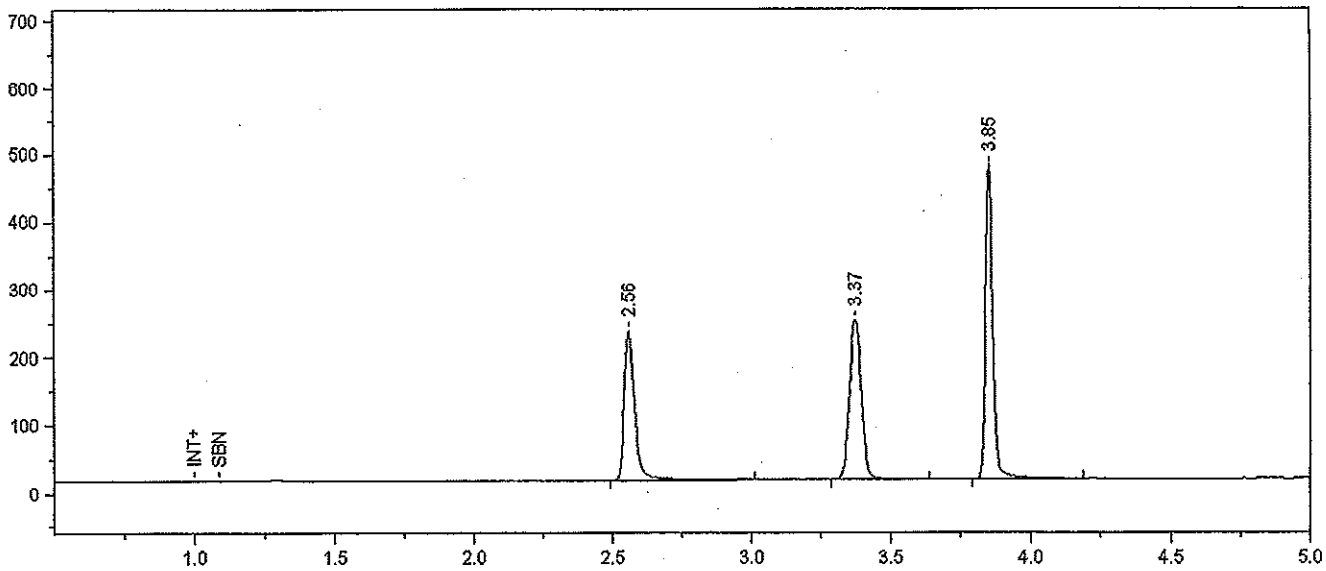
Today's Time = 9:06:06 AM
Bound File Name = Sim021712.0023.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 3:12:26 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

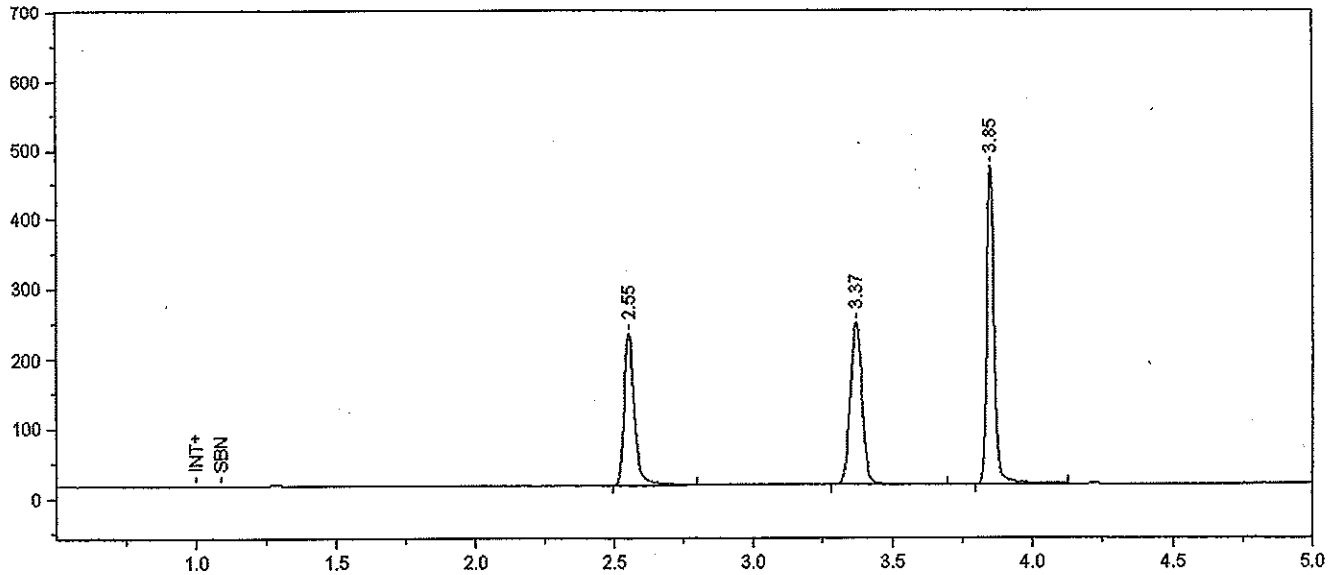
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	555464	0.1223	0.0998
2	3.37	t-Butanol	686825	0.9971	0.8138
3	3.85	n-Propanol	858251	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:10 AM
Bound File Name = Sim021712.0024.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 3:27:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	570349	0.1243	0.1014
2	3.37	t-Butanol	692340	0.9947	0.8118
3	3.85	n-Propanol	867230	1.0000	0.8162



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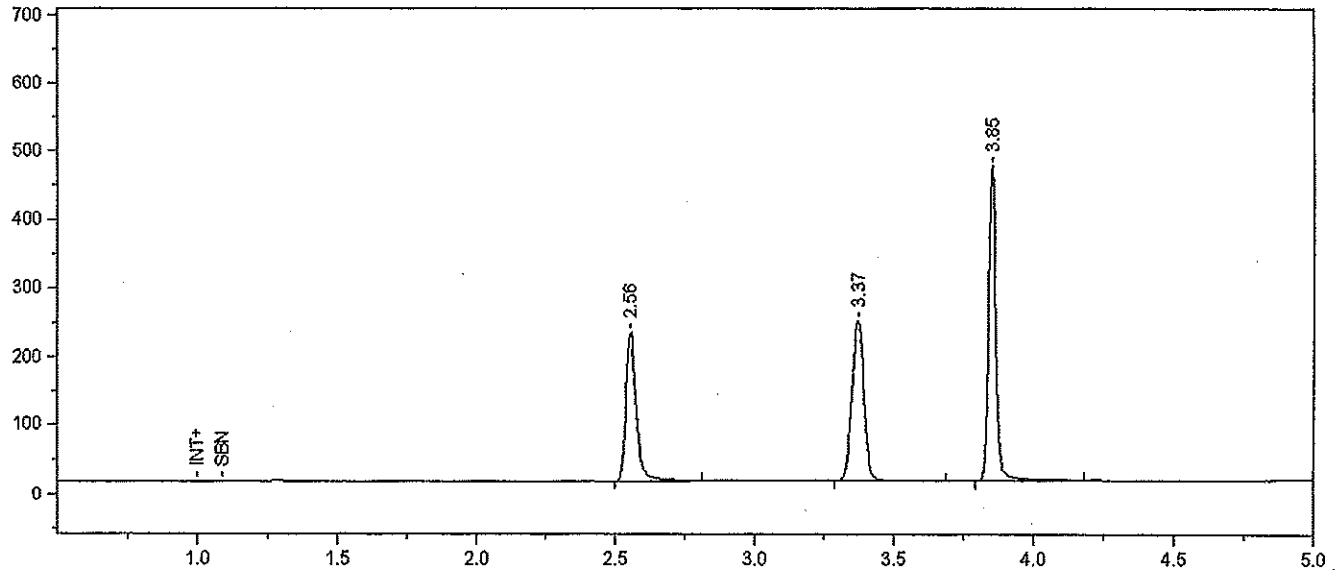
Today's Time = 9:06:15 AM
Bound File Name = Sim021712.0025.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/17/2012 3:42:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	553497	0.1226	0.1000
2	3.37	t-Butanol	682483	0.9965	0.8133
3	3.85	n-Propanol	853323	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 9:06:20 AM
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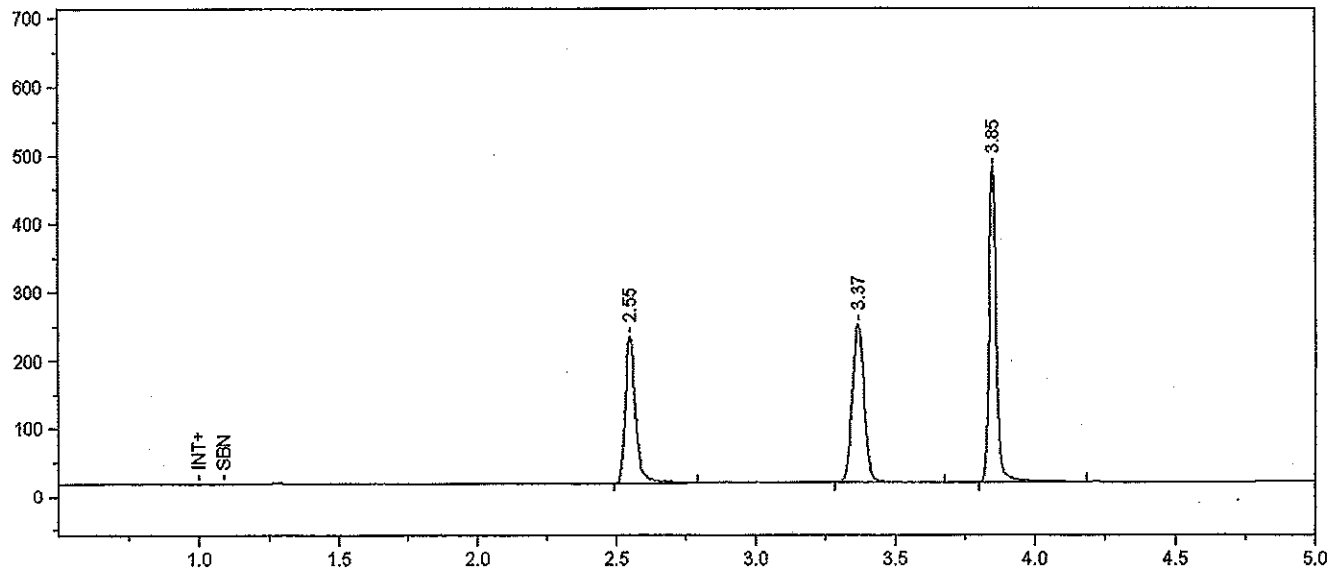
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 3:57:31 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 237

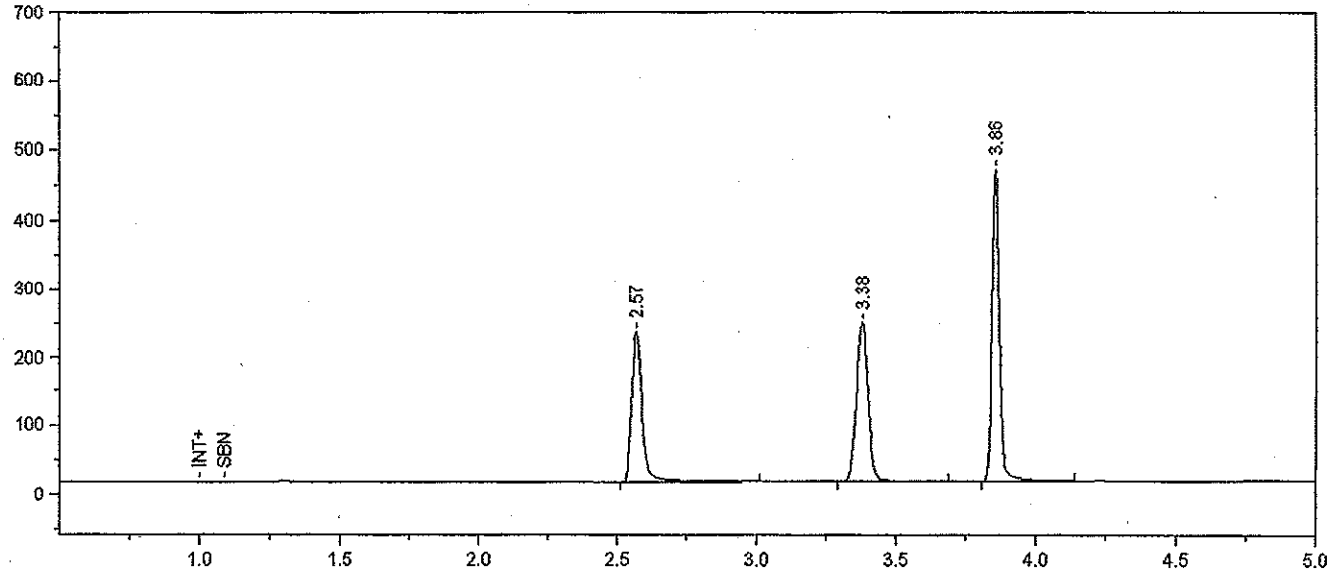
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	555202	0.1220	0.0996
2	3.37	t-Butanol	692010	1.0025	0.8182
3	3.85	n-Propanol	860073	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 9:06:25 AM
Bound File Name = Sim021712.0027.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 4:12:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 237

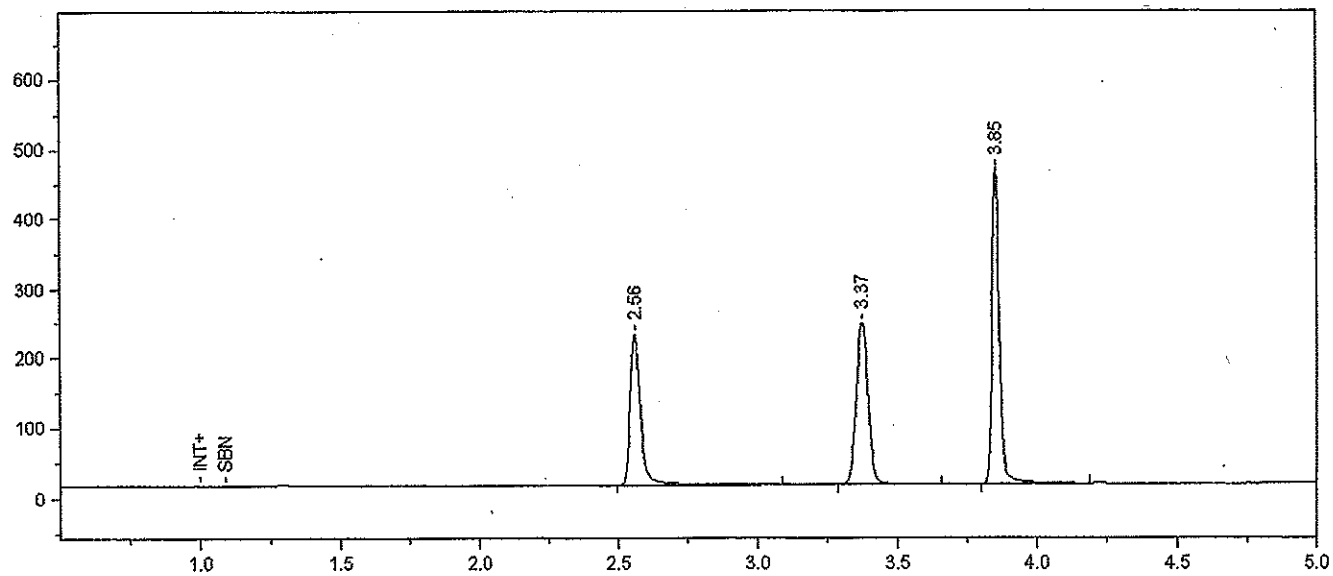
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	555356	0.1224	0.0999
2	3.37	t-Butanol	684591	0.9944	0.8117
3	3.85	n-Propanol	857712	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 9:06:30 AM
Bound File Name = Sim021712.0028.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 4:27:33 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 237

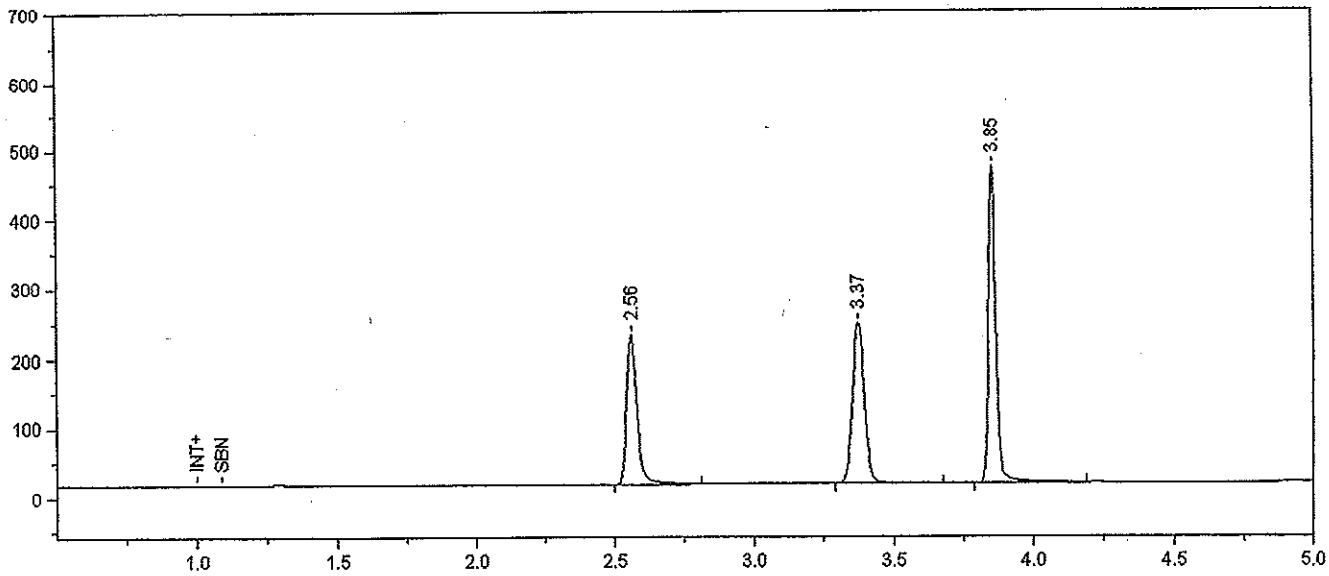
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	569782	0.1275	0.1041
2	3.38	t-Butanol	680708	1.0041	0.8196
3	3.86	n-Propanol	844640	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:35 AM
Bound File Name = Sim021712.0029.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 4:42:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

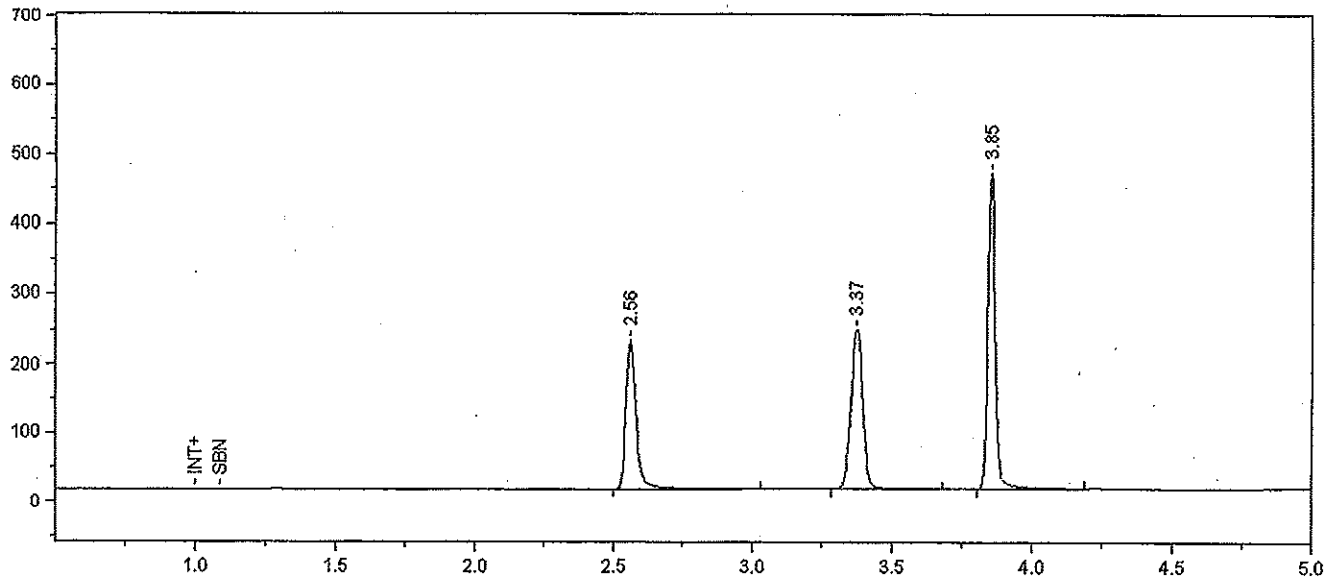
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	560375	0.1253	0.1023
2	3.37	t-Butanol	678426	1.0005	0.8166
3	3.85	n-Propanol	844851	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:40 AM
Bound File Name = Sim021712.0030.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 4:57:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

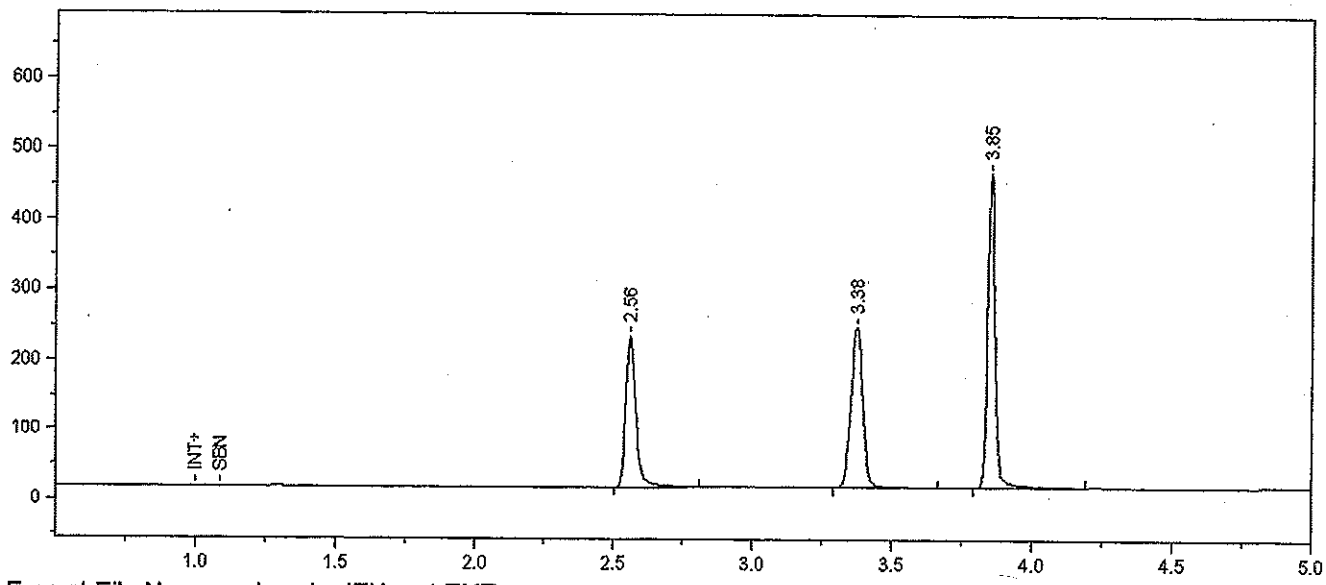
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	547733	0.1225	0.1000
2	3.37	t-Butanol	679410	1.0016	0.8175
3	3.85	n-Propanol	845178	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:44 AM
Bound File Name = Sim021712.0031.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 5:12:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

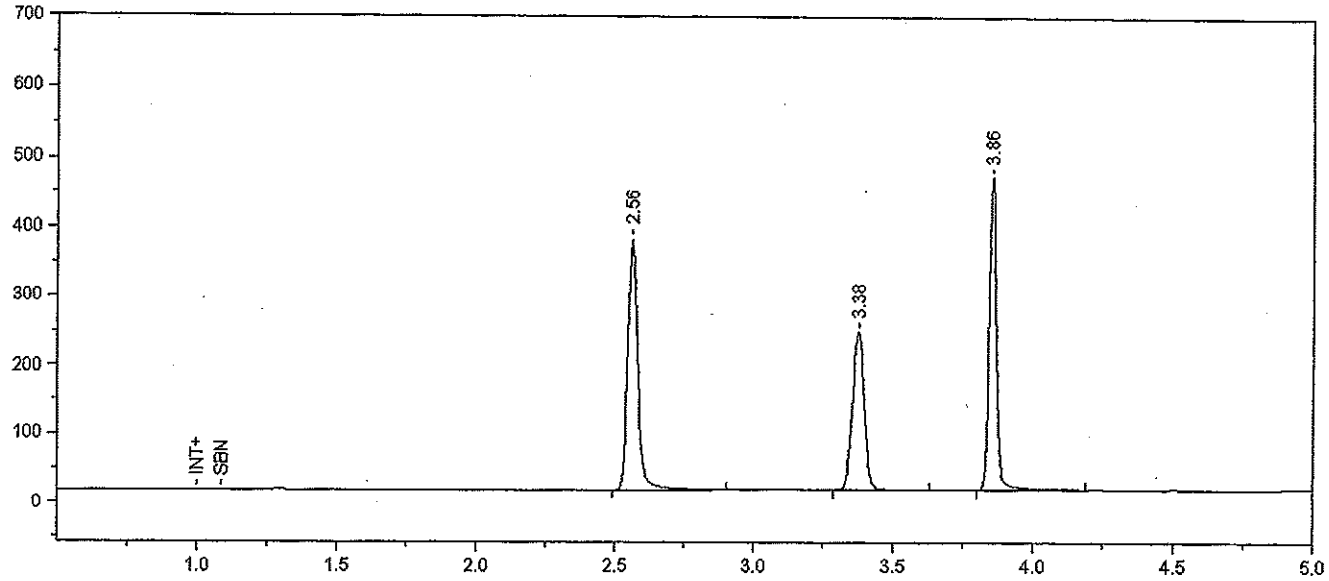
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	566141	0.1255	0.1024
2	3.37	t-Butanol	683316	0.9985	0.8150
3	3.85	n-Propanol	852626	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:49 AM
Bound File Name = Sim021712.0032.RAW
Sample Name = 0.1 Sim Sol - JFH
Date Taken = 2/17/2012 5:27:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

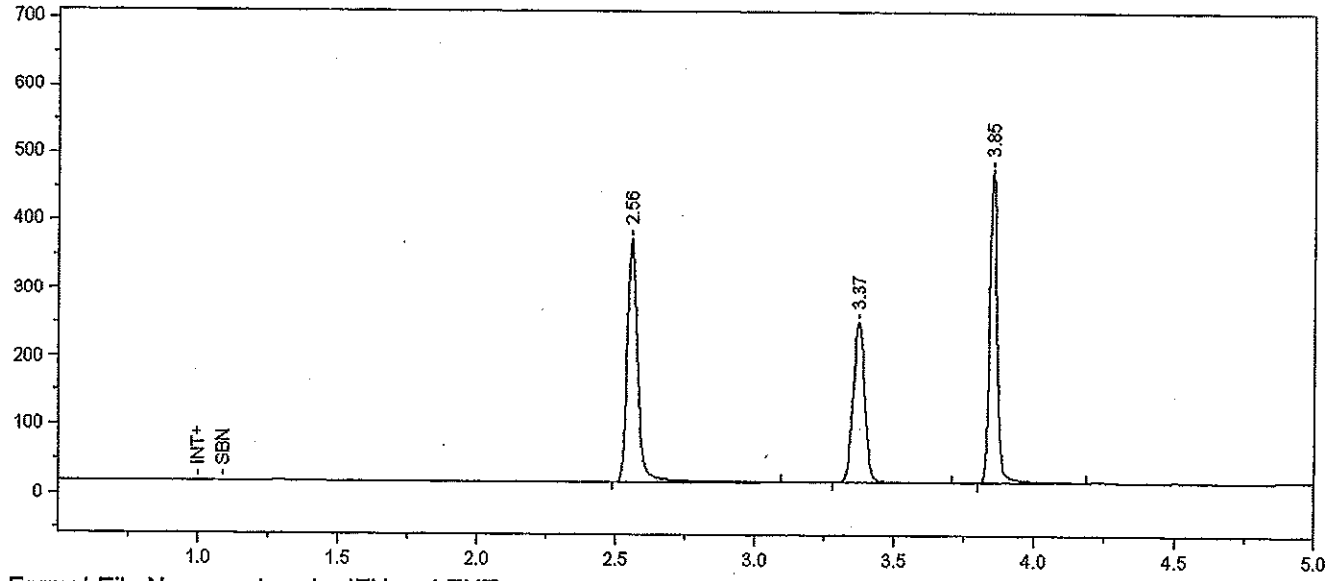
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	557168	0.1240	0.1012
2	3.38	t-Butanol	679535	0.9973	0.8140
3	3.85	n-Propanol	848963	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 9:06:54 AM
Bound File Name = Sim021712.0033.RAW
Sample Name = CCS C
Date Taken = 2/17/2012 5:42:37 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	930246	0.2055	0.1677
2	3.38	t-Butanol	679340	0.9894	0.8076
3	3.86	n-Propanol	855465	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 9:06:59 AM
Bound File Name = Sim021712.0034.RAW
Sample Name = CCS C
Date Taken = 2/17/2012 5:57:39 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 237

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	926636	0.2034	0.1660
2	3.37	t-Butanol	686182	0.9932	0.8106
3	3.85	n-Propanol	860789	1.0000	0.8162

File Name: C:\Methods\5890 Blood Methods\SimSolution.cal
Version: 242

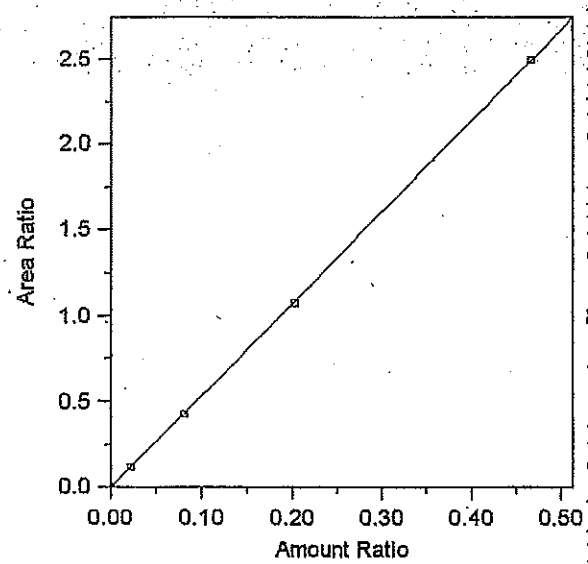
Creator:
Description:
Reason for change:

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:	2.556 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

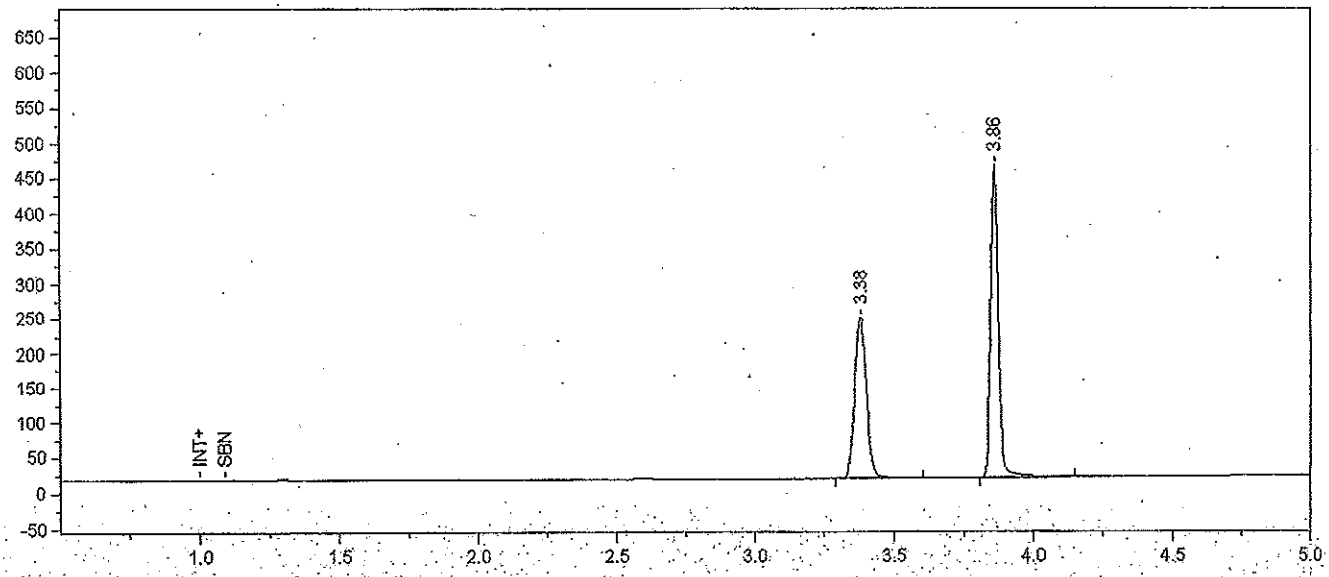
Single peak quantification by area

Y = 5.353333 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999781
Average error:	0.611%
Average CF:	4.269505
RSD:	55.918%

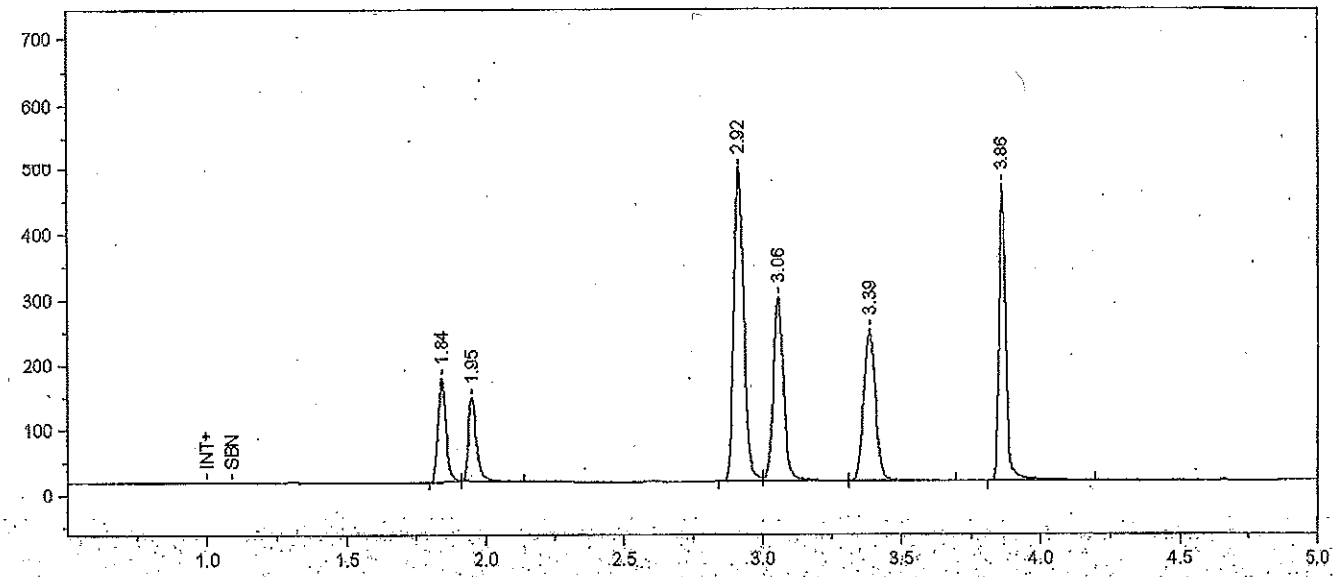
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	102549.5	4598633	0.715	0.0223	0.120233	C:\Blood Alc\Sim021812\Sim021812.0003.BND	2/18/2012 11:13:14 AM
3	0.0814	354792.7	4358633	-2.142	0.0814	0.4264271	C:\Blood Alc\Sim021812\Sim021812.0004.BND	2/18/2012 11:28:13 AM
4	0.2016	912466.7	4526125	0.165	0.2016	1.08101	C:\Blood Alc\Sim021812\Sim021812.0005.BND	2/18/2012 11:43:19 AM
5	0.466	2085743	4475844	0.033	0.466	2.495474	C:\Blood Alc\Sim021812\Sim021812.0006.BND	2/18/2012 11:58:20 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 12:18:00 PM
Bound File Name = Sim021812.0001.RAW
Sample Name = Blank
Date Taken = 2/18/2012 10:43:01 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

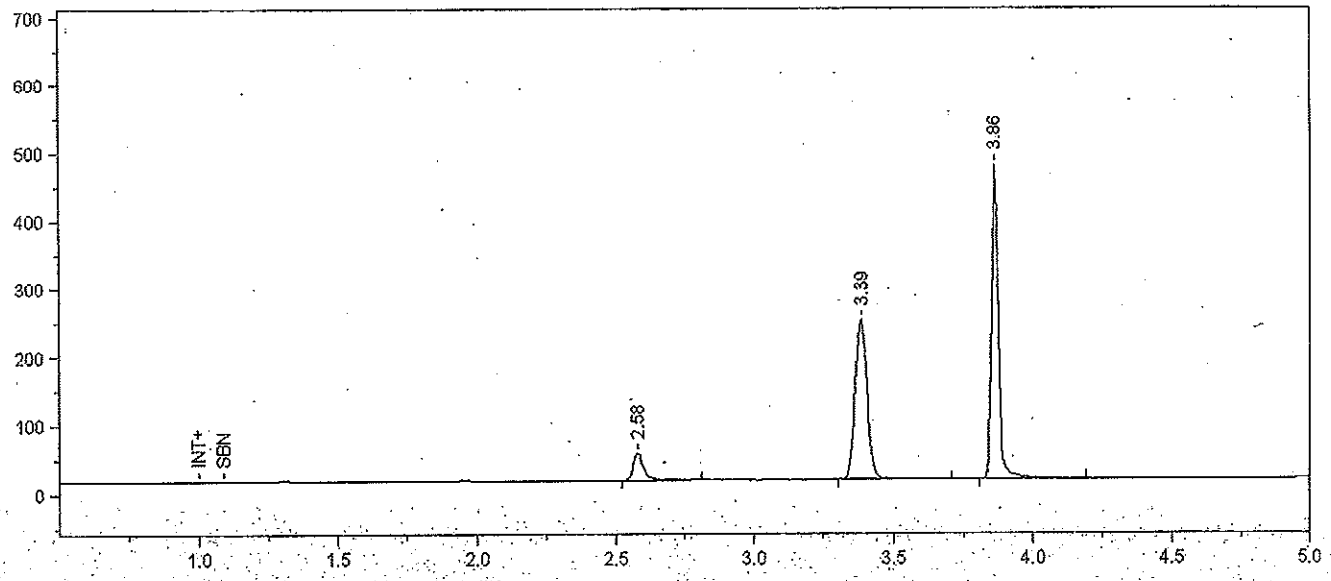
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.38	t-Butanol	675787	1.0023	0.8181
2	3.86	n-Propanol	837331	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 12:18:04 PM
Bound File Name = Sim021812.0002.RAW
Sample Name = TMX
Date Taken = 2/18/2012 10:58:02 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

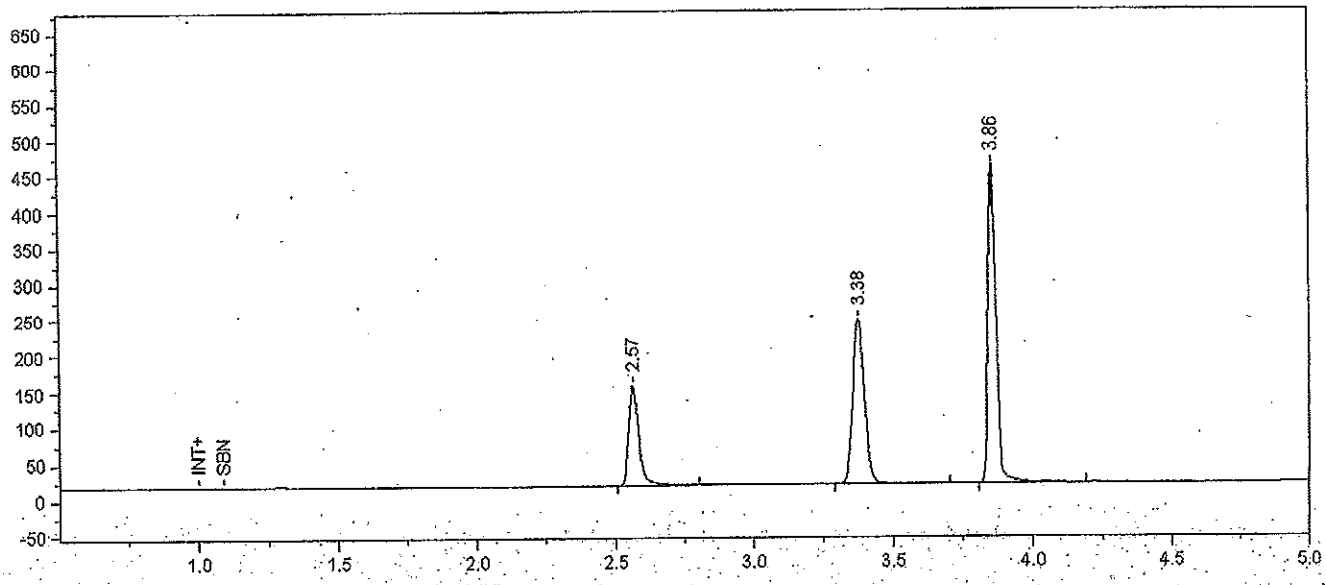
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.84	Acetaldehyde	316042	0.0510	0.0416
2	1.95	Methanol	261529	0.1280	0.1045
3	2.92	Acetone	1192323	0.0600	0.0490
4	3.06	Isopropanol	759276	0.0810	0.0661
5	3.39	t-Butanol	684384	1.0049	0.8202
6	3.86	n-Propanol	845808	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 12:18:10 PM
Bound File Name = Sim021812.0003.RAW
Sample Name = Std A
Date Taken = 2/18/2012 11:13:09 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

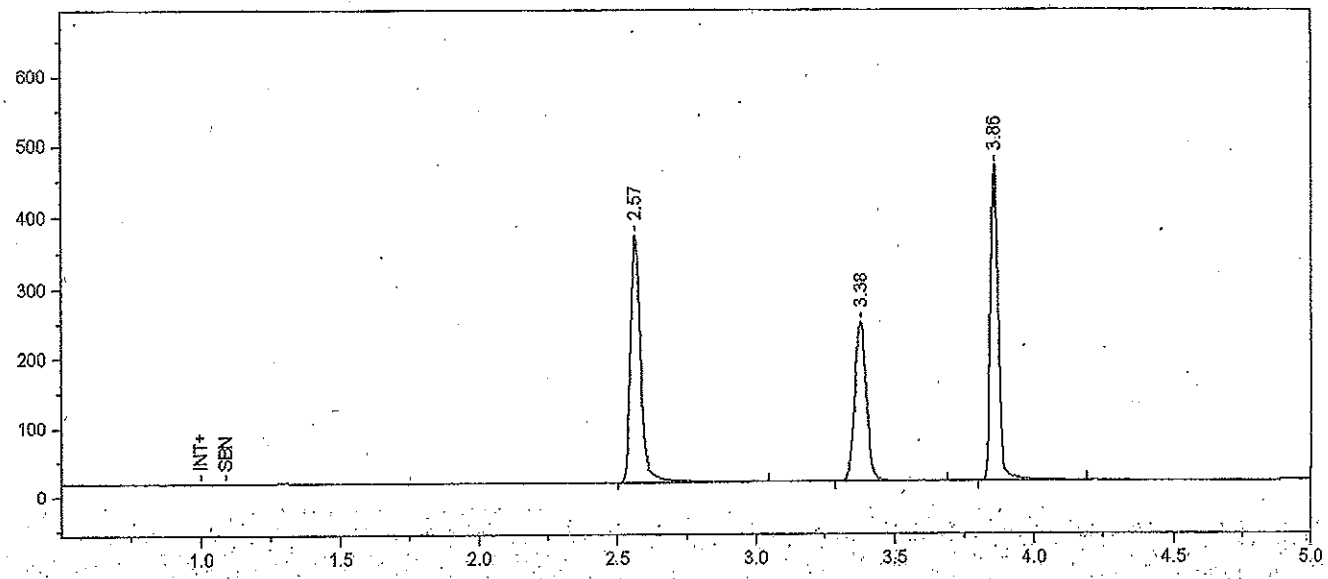
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.58	Ethanol	102550	0.0225	0.0183
2	3.39	t-Butanol	688447	1.0024	0.8182
3	3.86	n-Propanol	852923	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 12:18:15 PM
Bound File Name = Sim021812.0004.RAW
Sample Name = Std B
Date Taken = 2/18/2012 11:28:11 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

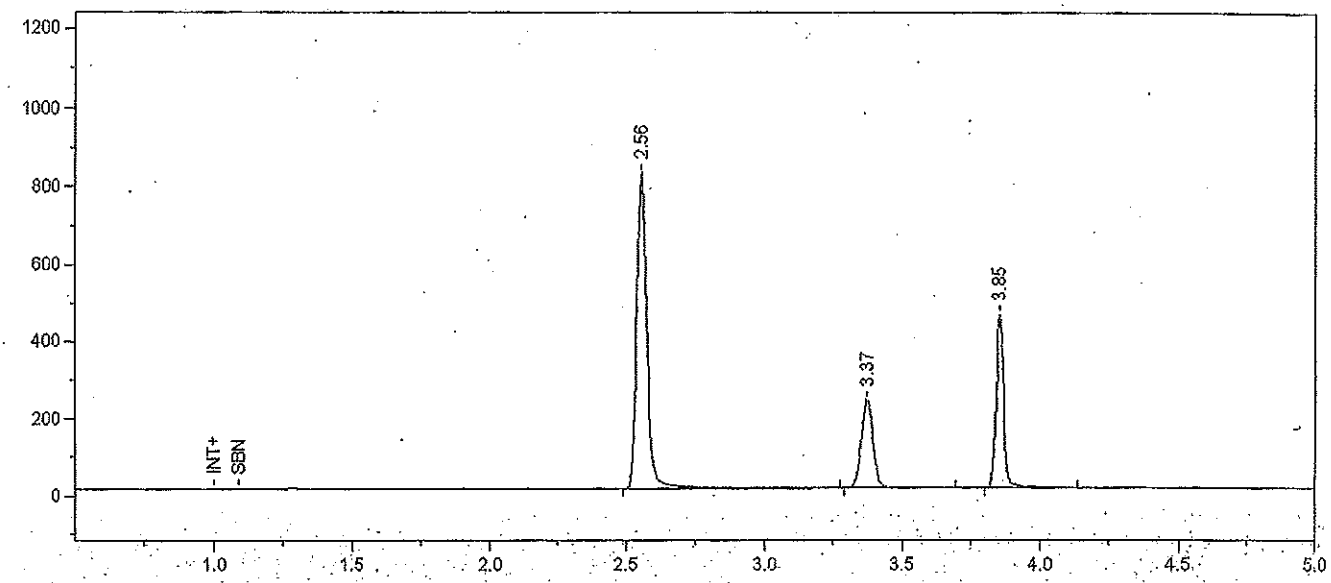
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	354793	0.0797	0.0650
2	3.38	t-Butanol	667696	0.9966	0.8135
3	3.86	n-Propanol	832013	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012
Today's Time = 12:18:20 PM
Bound File Name = Sim021812.0005.RAW
Sample Name = Std C
Date Taken = 2/18/2012 11:43:12 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

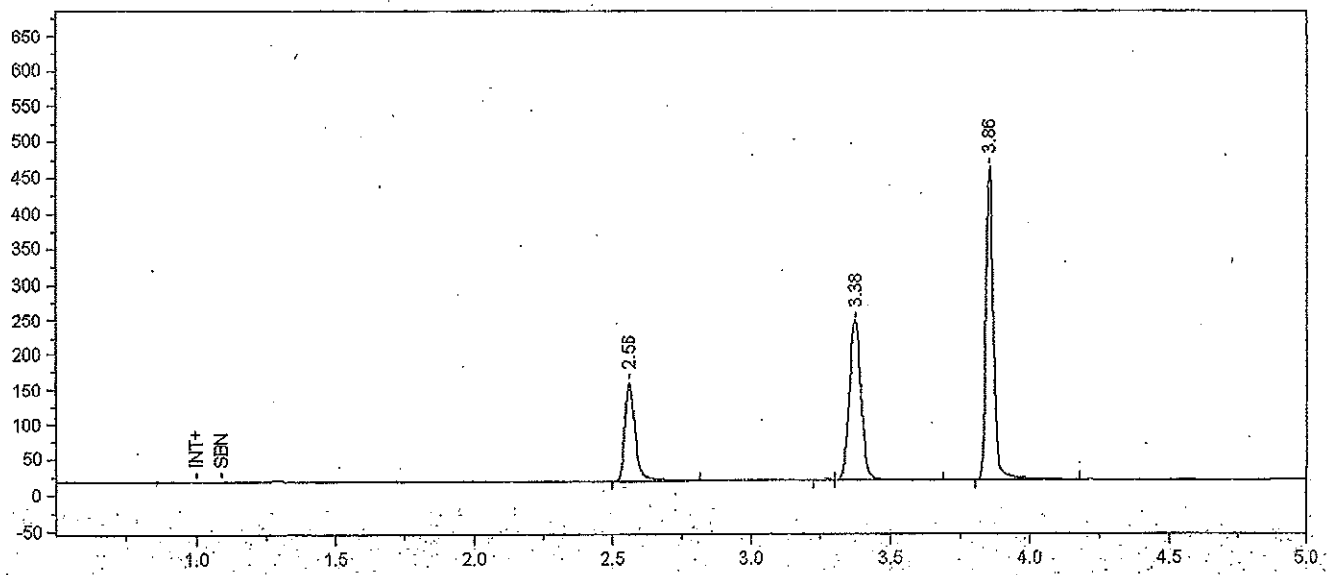
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	912467	0.2019	0.1648
2	3.38	t-Butanol	678754	0.9987	0.8151
3	3.86	n-Propanol	844088	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 12:18:25 PM
Bound File Name = Sim021812.0006.RAW
Sample Name = Std D
Date Taken = 2/18/2012 11:58:11 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

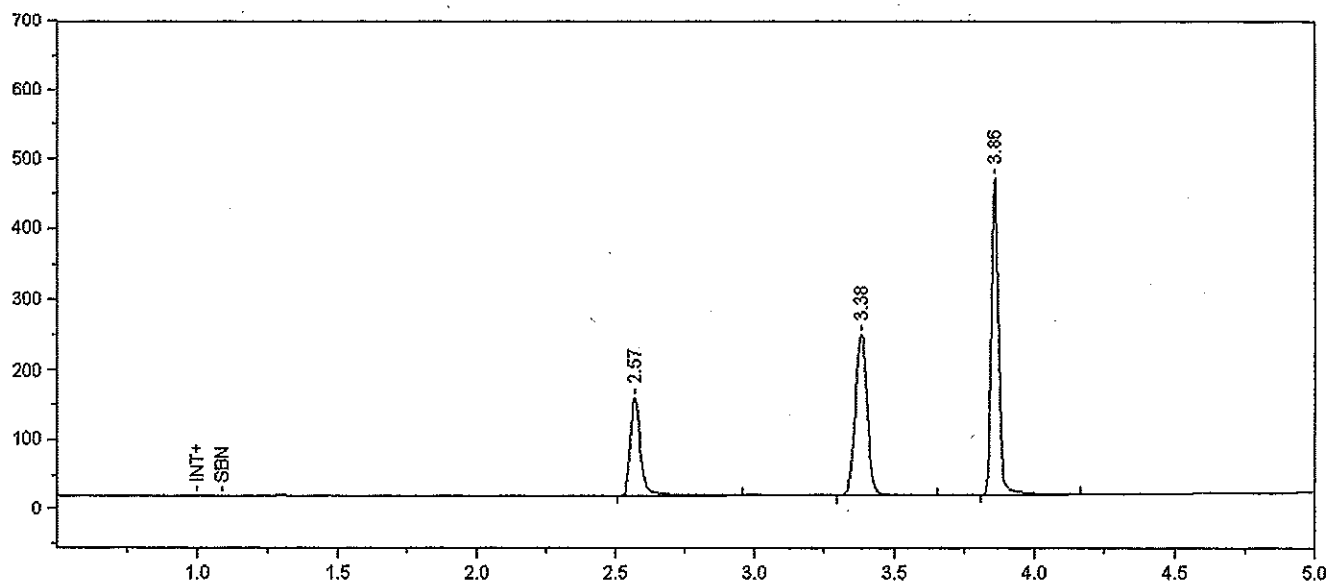
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	2085743	0.4662	0.3805
2	3.37	t-Butanol	671249	0.9974	0.8141
3	3.85	n-Propanol	835810	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/18/2012 Today's Time = 12:18:30 PM
Bound File Name = Sim021812.0007.RAW
Sample Name = AQ QC
Date Taken = 2/18/2012 12:13:19 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

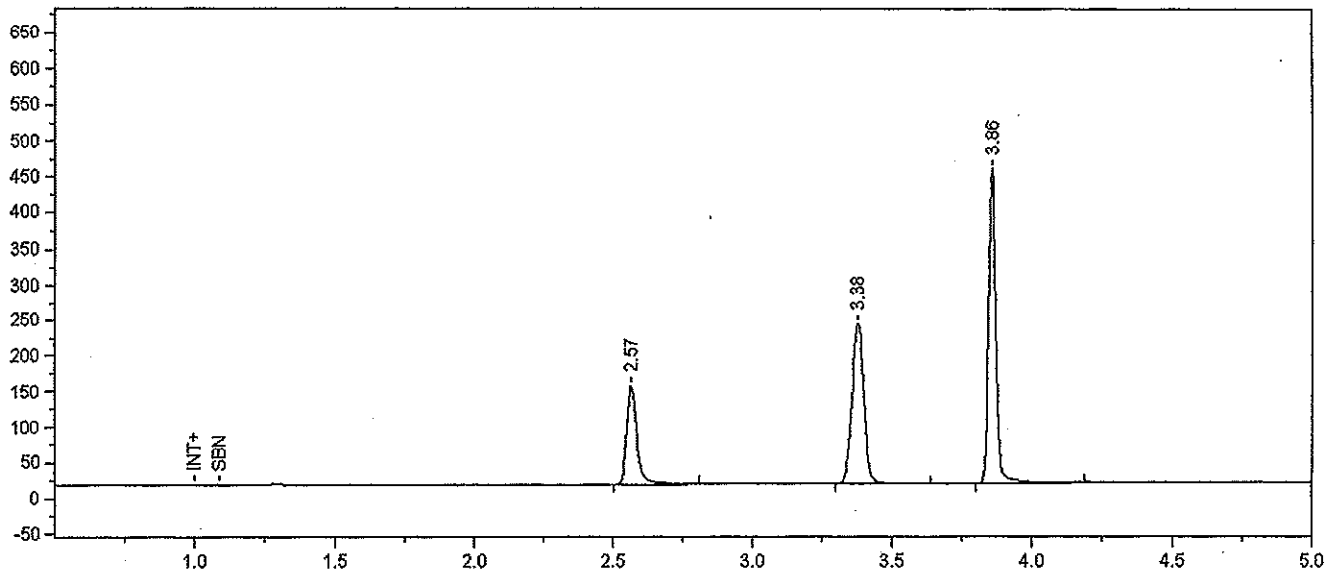
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	363496	0.0813	0.0664
3	3.38	t-Butanol	668345	0.9944	0.8116
4	3.86	n-Propanol	834722	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 3:47:58 PM
Bound File Name = Sim022112.0001.RAW
Sample Name = CCS B
Date Taken = 2/21/2012 3:47:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

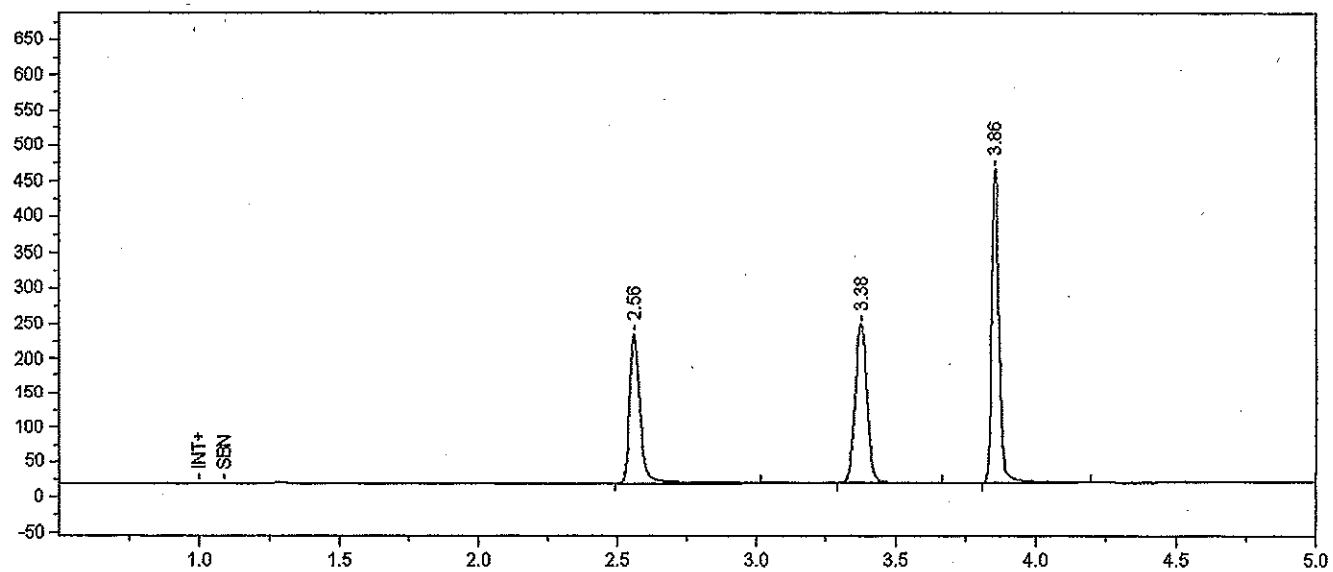
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	370224	0.0825	0.0674
2	3.38	t-Butanol	675359	1.0008	0.8169
3	3.86	n-Propanol	838063	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 4:03:01 PM
Bound File Name = Sim022112.0002.RAW
Sample Name = CCS B
Date Taken = 2/21/2012 4:02:53 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

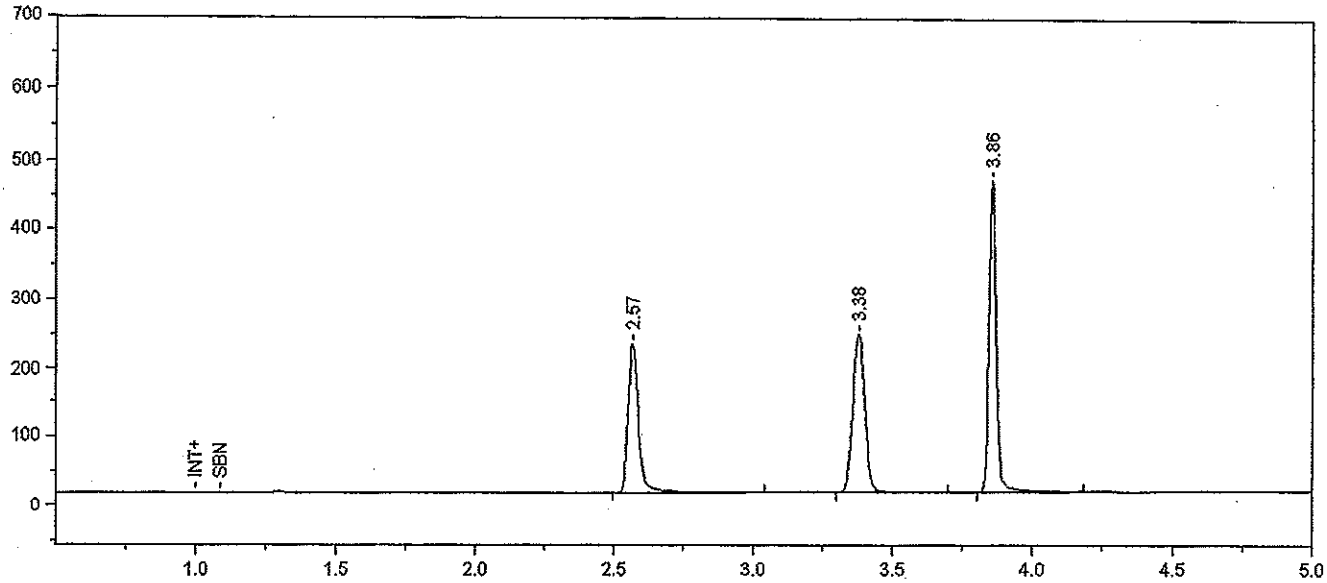
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	356746	0.0808	0.0659
2	3.38	t-Butanol	661176	0.9953	0.8124
3	3.86	n-Propanol	824995	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 4:17:57 PM
Bound File Name = Sim022112.0003.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 4:17:55 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

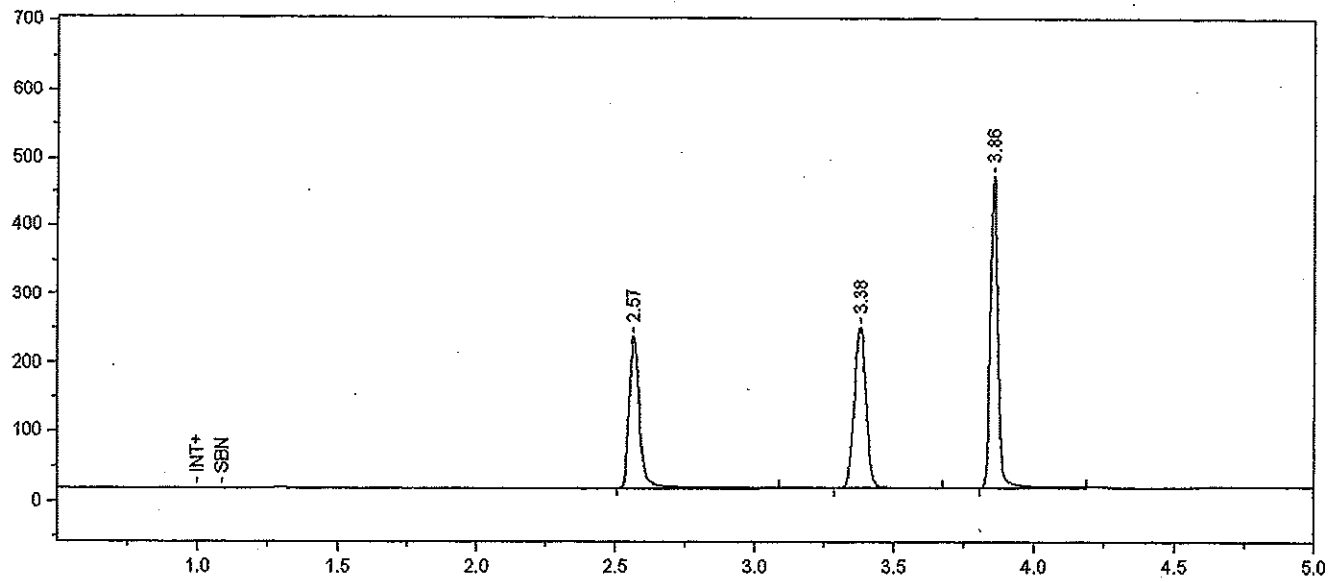
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	561567	0.1251	0.1021
2	3.38	t-Butanol	671052	0.9940	0.8113
3	3.86	n-Propanol	838436	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 4:25:14 PM
Bound File Name = Sim022112.0004.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 4:25:12 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

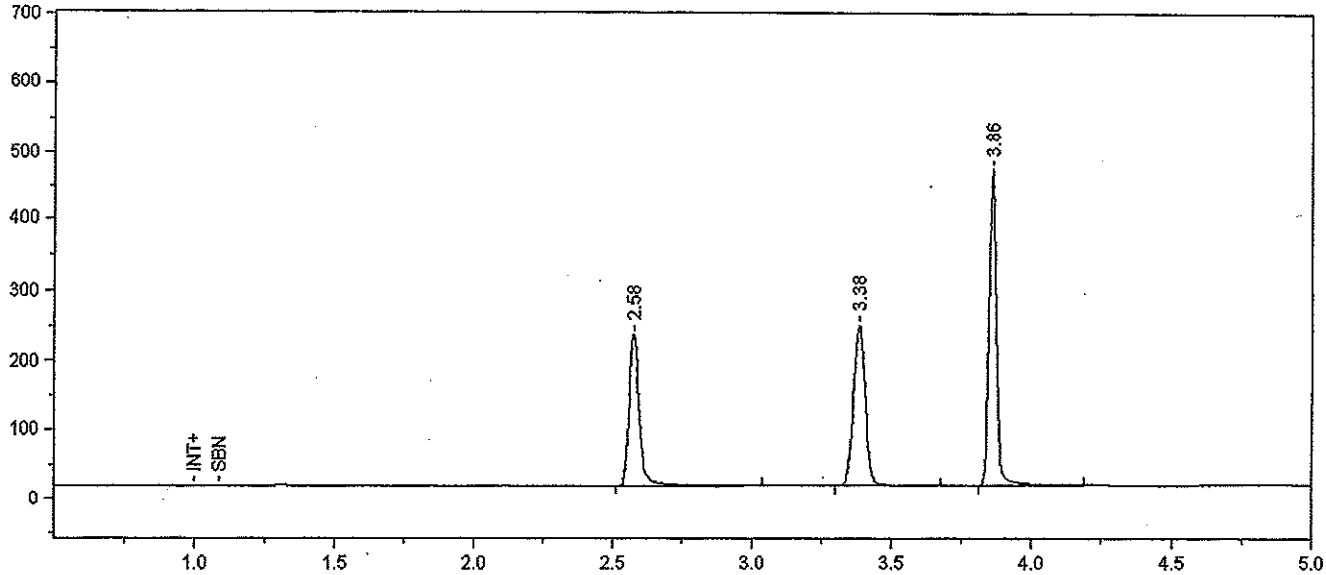
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	565607	0.1249	0.1020
2	3.38	t-Butanol	680003	0.9987	0.8151
3	3.86	n-Propanol	845614	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 4:48:03 PM
Bound File Name = Sim022112.0005.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 4:47:57 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

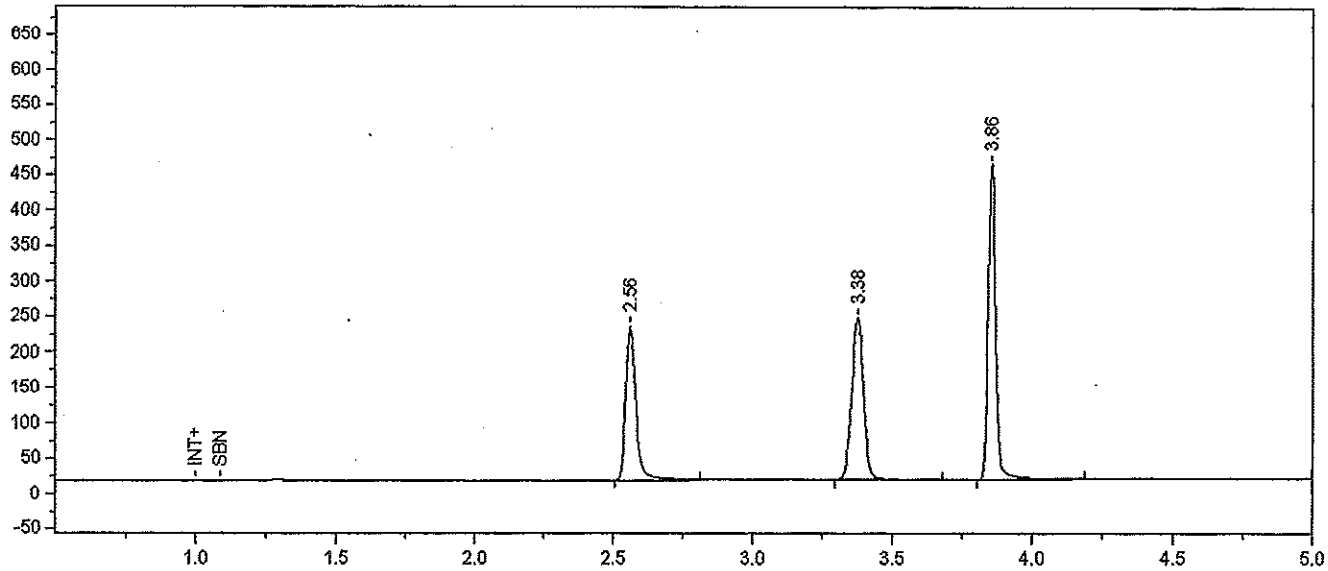
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	571804	0.1252	0.1022
2	3.38	t-Butanol	682344	0.9937	0.8110
3	3.86	n-Propanol	852812	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 5:03:01 PM
Bound File Name = Sim022112.0006.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 5:02:56 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

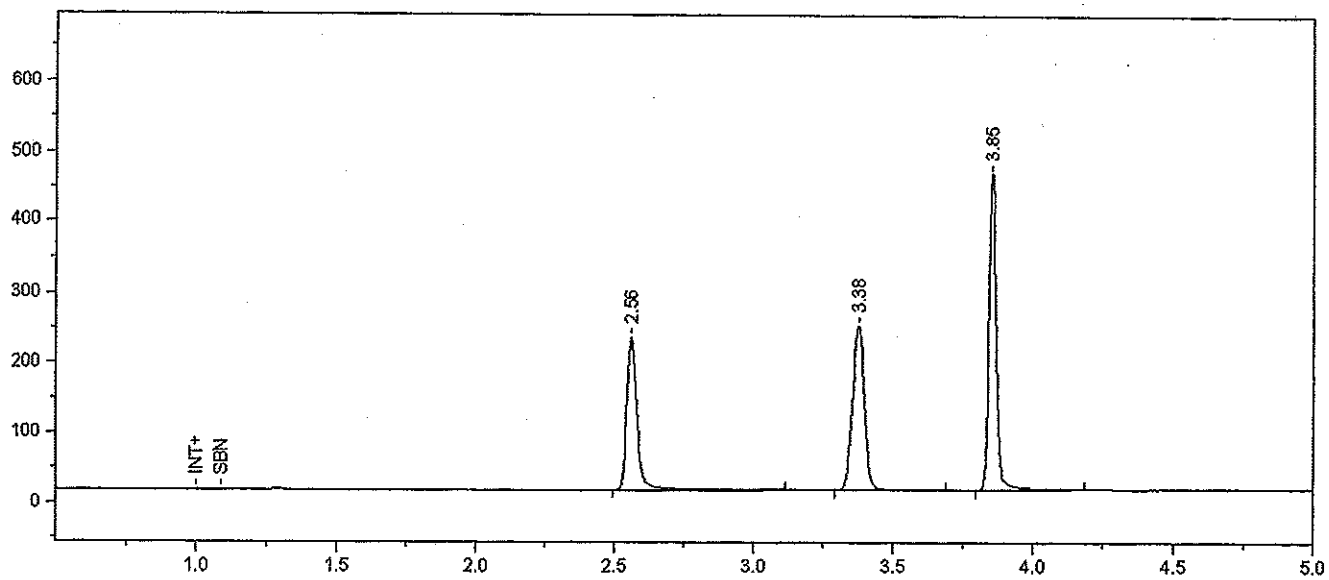
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.58	Ethanol	566725	0.1251	0.1021
2	3.38	t-Butanol	677569	0.9947	0.8119
3	3.86	n-Propanol	845975	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 5:18:08 PM
Bound File Name = Sim022112.0007.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 5:18:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

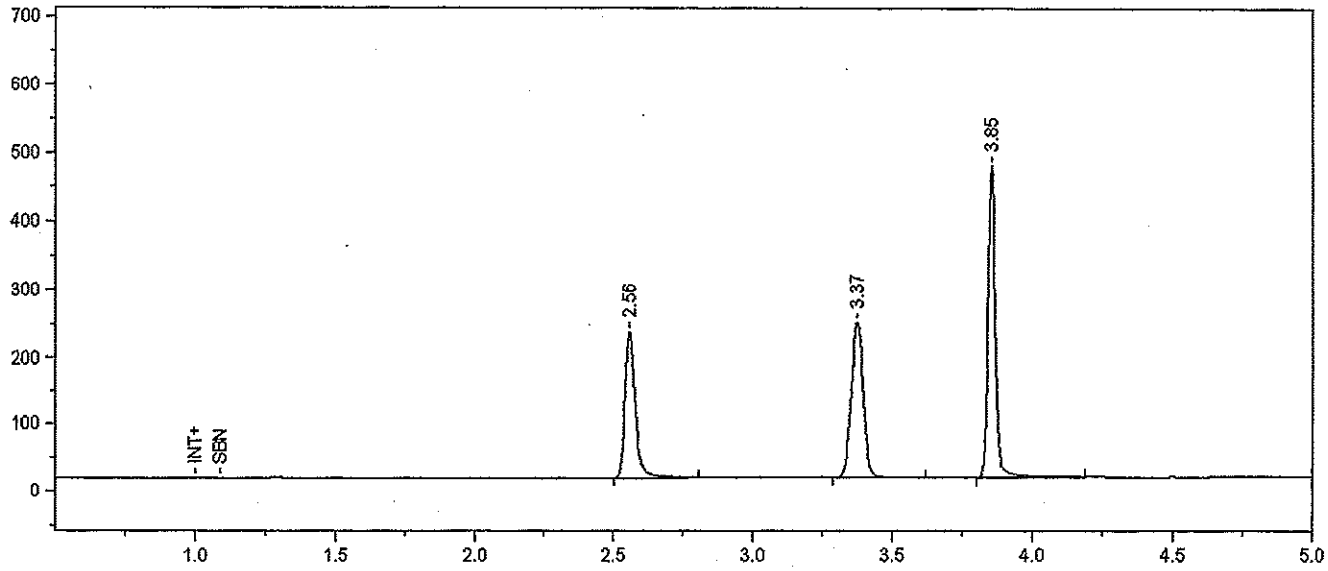
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	553878	0.1229	0.1003
2	3.38	t-Butanol	671801	0.9907	0.8086
3	3.86	n-Propanol	842153	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012
Today's Time = 5:33:07 PM
Bound File Name = Sim022112.0008.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 5:33:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

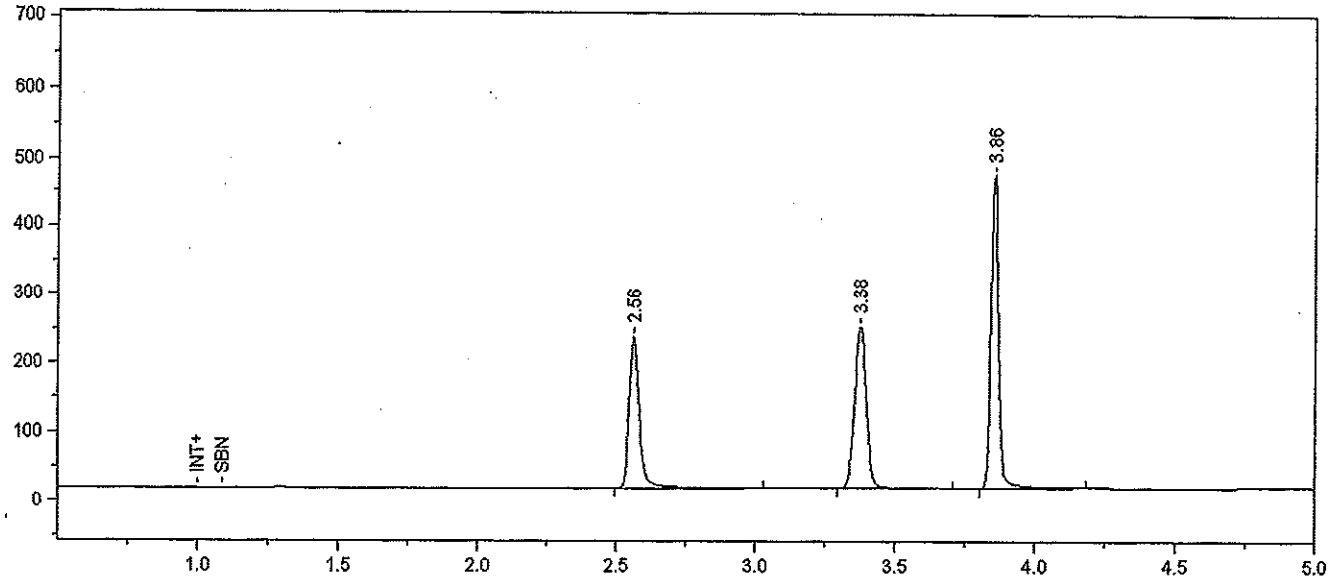
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	568823	0.1249	0.1020
2	3.38	t-Butanol	683995	0.9988	0.8152
3	3.85	n-Propanol	850476	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 5:48:06 PM
Bound File Name = Sim022112.0009.RAW
Sample Name = 0.1 Cal Check - SRM
Date Taken = 2/21/2012 5:47:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

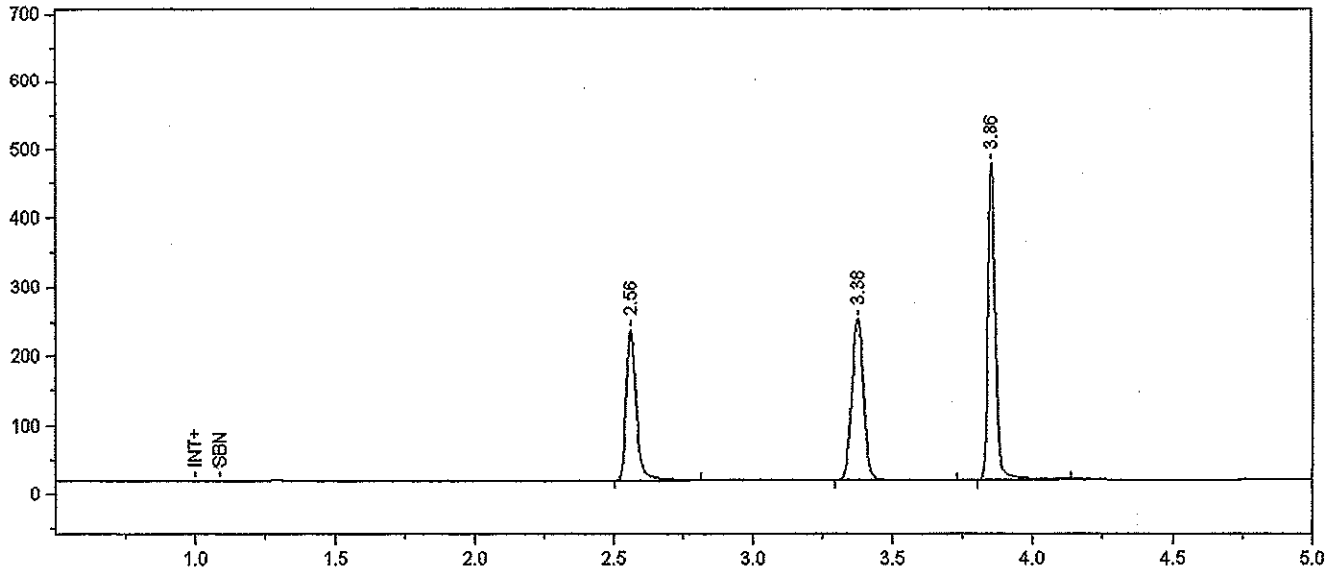
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	562416	0.1224	0.0999
2	3.37	t-Butanol	687257	0.9941	0.8114
3	3.85	n-Propanol	858587	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012
Today's Time = 6:03:06 PM
Bound File Name = Sim022112.0010.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 6:03:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

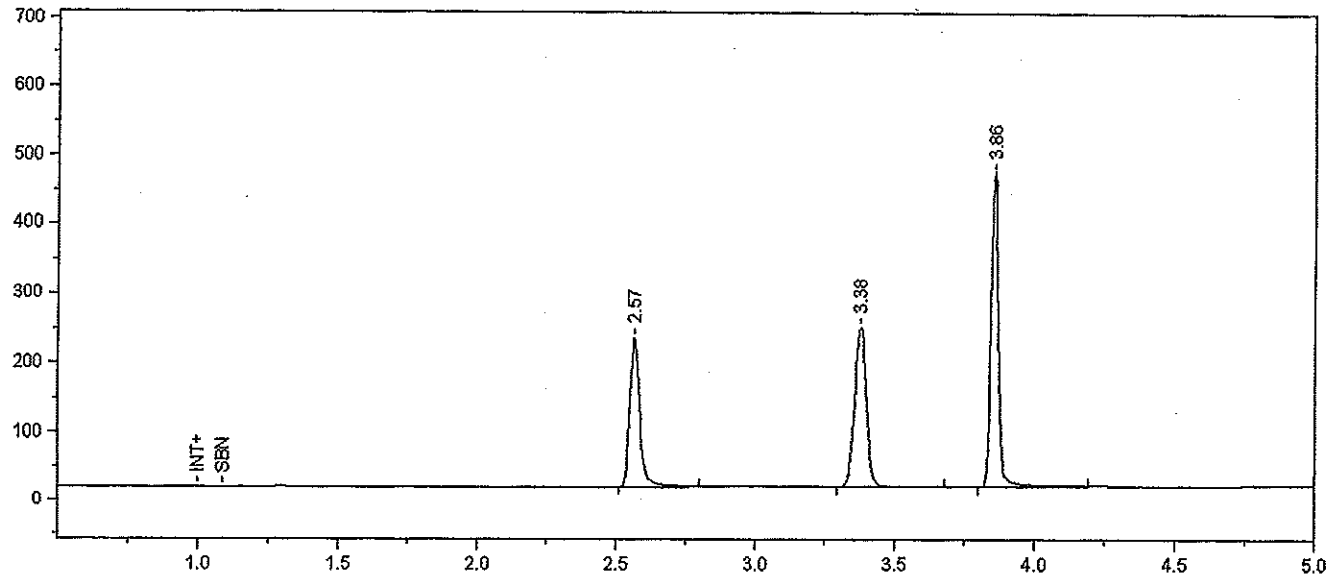
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	571770	0.1245	0.1016
2	3.38	t-Butanol	689167	0.9974	0.8141
3	3.86	n-Propanol	858141	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012
Today's Time = 6:18:09 PM
Bound File Name = Sim022112.0011.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 6:18:01 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

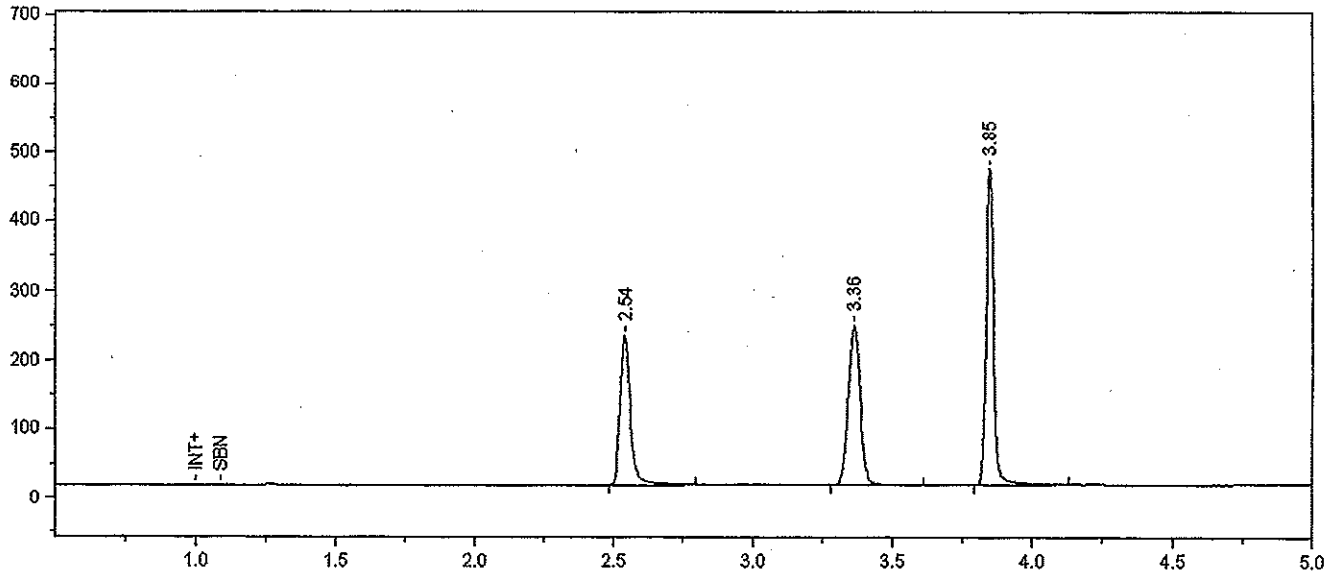
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	564825	0.1230	0.1004
2	3.38	t-Butanol	687476	0.9950	0.8121
3	3.86	n-Propanol	858081	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012
Today's Time = 6:33:09 PM
Bound File Name = Sim022112.0012.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 6:33:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

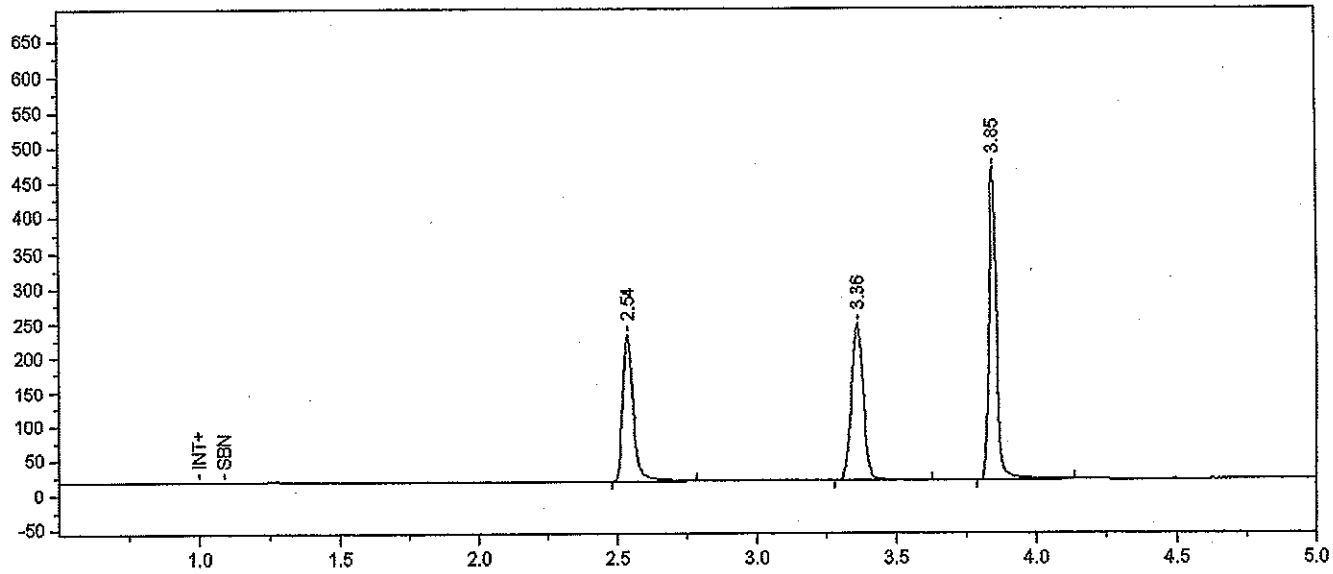
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	558476	0.1214	0.0991
2	3.38	t-Butanol	688266	0.9948	0.8120
3	3.86	n-Propanol	859232	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012
Today's Time = 6:48:12 PM
Bound File Name = Sim022112.0013.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 6:48:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

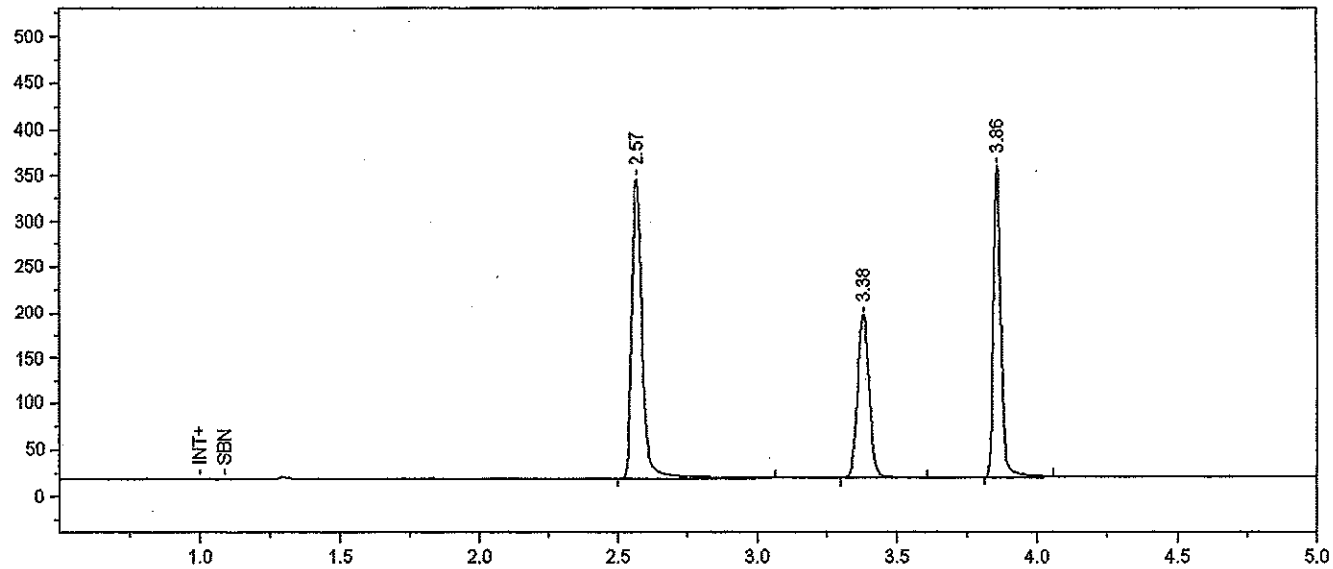
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	561975	0.1222	0.0998
2	3.36	t-Butanol	689317	0.9968	0.8136
3	3.85	n-Propanol	858835	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012
Today's Time = 7:03:15 PM
Bound File Name = Sim022112.0014.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 7:03:07 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 242

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	552503	0.1225	0.1000
2	3.36	t-Butanol	676745	0.9974	0.8141
3	3.85	n-Propanol	842640	1.0000	0.8162



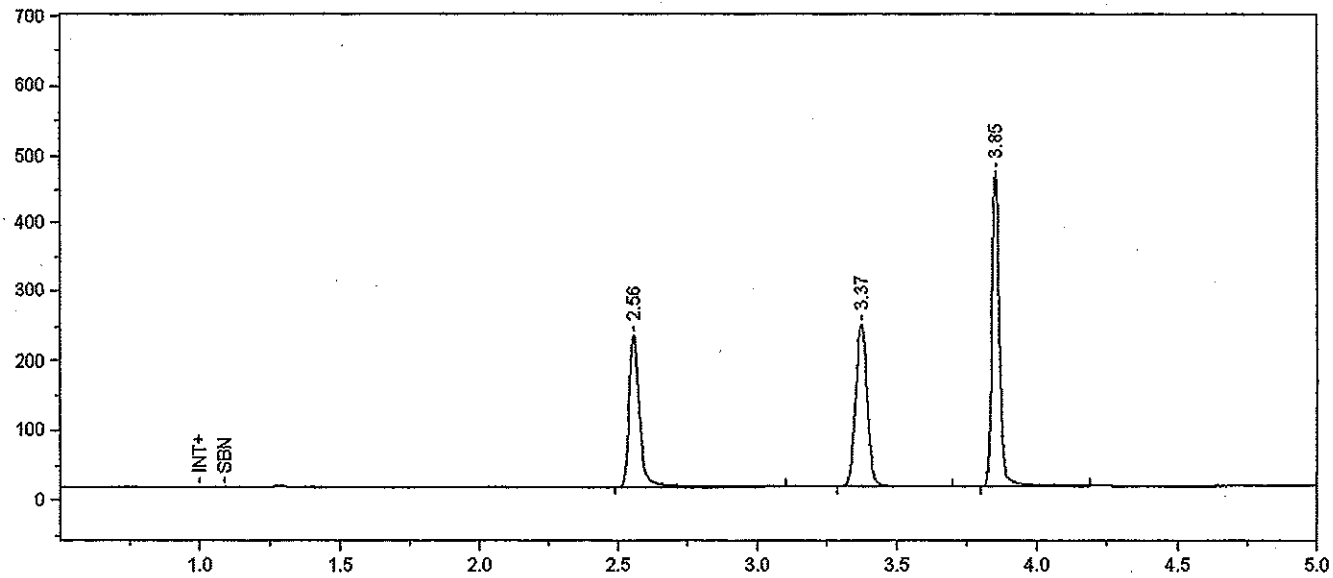
Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 7:18:11 PM
Bound File Name = Sim022112.0015.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 7:18:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	840189	0.2484	0.2027
2	3.38	t-Butanol	514407	1.0109	0.8251
3	3.86	n-Propanol	631951	1.0000	0.8162

Double spike
[illegible] 2-22-12

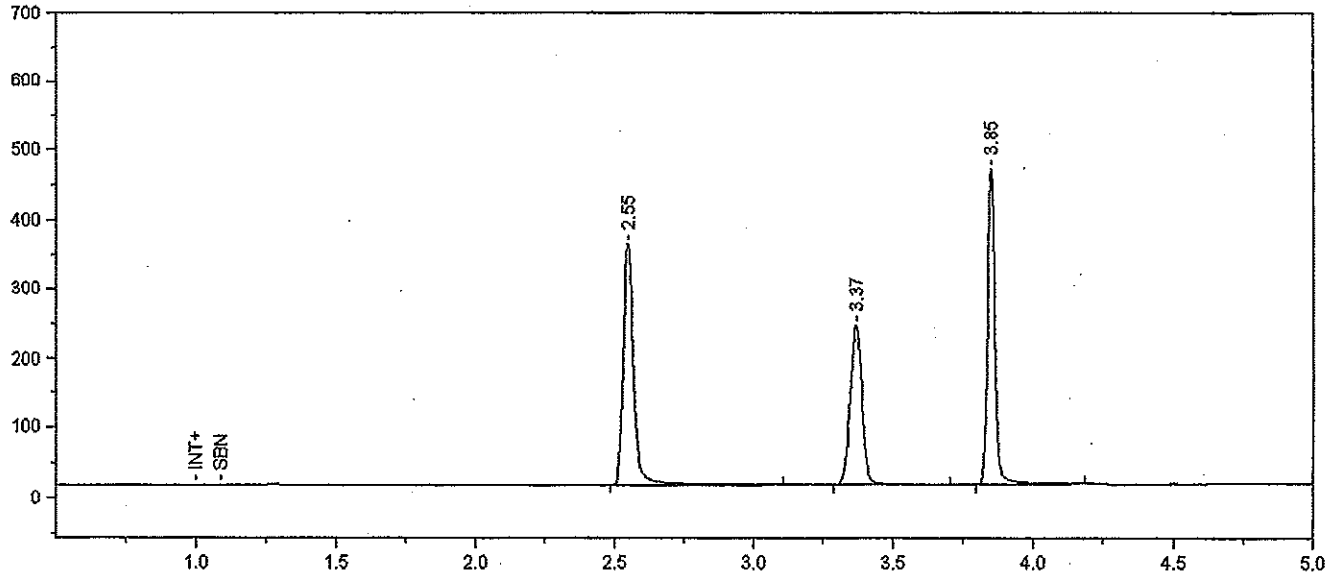
Point dropped because value is > 3 std. Dev. from the run average. 02/22/12 SBM [illegible] 2-22-12



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 7:33:12 PM
Bound File Name = Sim022112.0016.RAW
Sample Name = 0.1 Cal Check - KLK
Date Taken = 2/21/2012 7:33:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

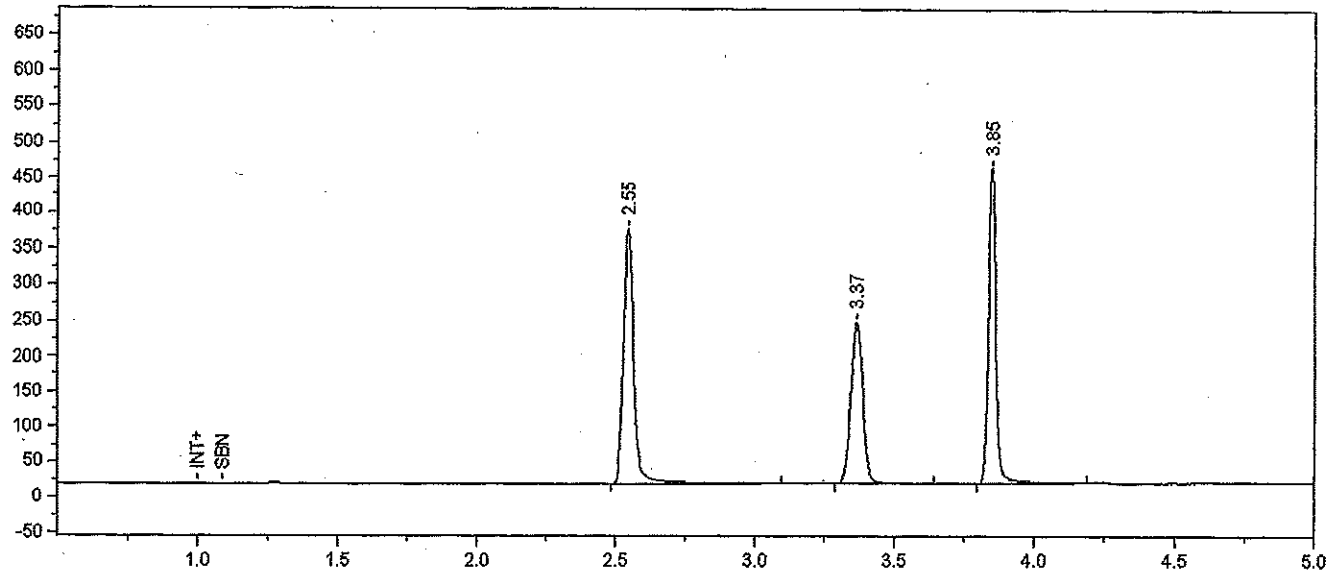
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	570050	0.1250	0.1020
2	3.37	t-Butanol	683893	0.9968	0.8136
3	3.85	n-Propanol	852049	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 7:48:15 PM
Bound File Name = Sim022112.0017.RAW
Sample Name = CCS C
Date Taken = 2/21/2012 7:48:10 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	904903	0.1996	0.1629
2	3.37	t-Butanol	674848	0.9894	0.8076
3	3.85	n-Propanol	847046	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/21/2012 Today's Time = 8:03:15 PM
Bound File Name = Sim022112.0018.RAW
Sample Name = CCS C
Date Taken = 2/21/2012 8:03:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 242

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	930449	0.2060	0.1682
2	3.37	t-Butanol	675319	0.9942	0.8115
3	3.85	n-Propanol	843537	1.0000	0.8162