Alcohols Analysis Technical Review Checklist (TRC) Checklist

For Internal Use Only
SOP: R3QA203-013012

Site Name: Dimock Residential Groundwater WO#: 1202003
Analyst: Adam Melner Date given to Reviewer: 2-16-12
Matrix (circle): Solid / Aqueous / Other _____
Program (circle): Superfund / RCRA / WPD (NPDES) / SDWA / Other: _____

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Peer Reviewer signature _____ Date accepted 2-21-12

If any data for this case is stored with another case file, give Site Name and WO# _____

Peer Reviewer Completes Section Below:

	YES	NO	N/A	Comments
General: Raw data is identified with sample IDs, site name, WO#, analyst name, date of analysis.	✓			
Quality Control: **Technical Holding Times:** Analysis: ≤ 7 days from collection date	✓			
Calibration and Instrument Conditions: At least 5 calibration points used	✓			
r > 0.995 for all compounds	✓			
SCV % difference within acceptance criteria (±20%)	✓			
CCV % difference within acceptance criteria (±20%)	✓			
Data qualified and/or corrective action taken as appropriate			✓	No Qcodes needed
BS/MS/MSD/BLK: One BS, MS, MSD per 20 samples analyzed	✓			
% Rec for BS/MS/MSD 70-130%	✓			
RPD for MS/MSD ≤ 25%	✓			
BLK/FRB/RIN < QL and 1/10th sample results	✓			
Instrument blanks analyzed (beginning, end, every20 samples)	✓			
IBL < 50% NQL (5ug/mL)	✓			
Data qualified and/or corrective action taken as appropriate			✓	SVOC qualifiers needed
Sample Results and Documentation: % diff checked (≤25% between columns) and J qualifier applied as appropriate			✓	all sample results ND ("u")

Lower value of dual columns reported			✓	all single results
Extract concentrations within calibration curve			✓	ND ("u") ~~all Non detect ("u")~~
Dilutions described in either extraction log or on chromatogram			✓	all Non-detect ("u")
All manual integrations properly documented?	✓			
Extraction log , run log, standard prep log included and reviewed	✓			
Instrument and processing methods included and reviewed	✓			
Calibration curve data included and reviewed	✓			
Reagent Water ≥18 Ω; TOC ≤ 25 µg/L	✓			
Calculations/Report: Calculations and transcriptions checked.	✓			yes, used Excel Spreadsheets
Element Draft Report reviewed.	✓			
Deviations and problems documented.			✓	None to Report/ ~~document~~

Additional Comments by Peer Reviewer:

Nice job

Analyst Ensures that the Data Case File is Complete and Accurate as per SOP R3QA-066:

- X Bench sheet or Work Order list
- X Sample Prep logs
- X Instrument run log
- X Standard/Reagent Prep log
- X Appropriate TV sheets / Certificates of Analysis
- X Element Peer Review report
- X Raw data

Additional Comments by Analyst on data issues:

See batch notes

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202003

Dimock Residential Groundwater

DAS R33907

Summary of Results / Project Information

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Region 3 Environmental Science Center
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701 Mapes Road
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Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

Report Narrative

The EPA Region 3 Laboratory's Quality System is NELAP accredited. The National Environmental Laboratory Accreditation Program (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies.

General Notes:
This report contains results for Metals analyses only. Due to the urgent need for the metals results, results for Glycol analysis will be included in Part 2 of 3 Report. All other parameters identified on the chain-of-custody form are included in separate reports. Lab Sample numbers 1202003-11, -12, -21 thru -23, and 1202003-48 thru -50 are not included in this report since these samples were designated for Volatile Organic analysis only.

For Work Order 1202003 - **This is Report 1 of 3.**

Two sample vials for the VOC analysis were received broken for 1202003-20. One sample vial for the Alcohol analysis was received broken for two samples, 1202003-01 and 1202003-20. Analysis was completed on the remaining vials. All samples were received at proper temperature.

Some samples designated for the analysis of Orthophosphorous were received at the laboratory past the established holding times. Therefore, all samples were analyzed using the Total Phosphate method and results for the analysis by the Orthophosphorous method are not included in this report Since the Orthophosphorous method was being used as a screening method to determine the need to analyze the sample by the Total Phosphate method , results for Total Phosphate are not impacted.

Samples designated for the analysis of Oil & Grease were received in sample containers inconsistent with the type needed for the routine extraction procedure. Therefore, all samples were extracted using the manual extraction technique.

Where applicable, sample results are qualified based on the highest level concentrations of field QC contamination found in the field, equipment, or trip blanks.

Metals Analysis Note:
Uranium, strontium, lithium, tin and titanium were analyzed as an on-demand analysis.

Results for zinc for samples 1202003-36-38,-40-41,-43 were qualified estimated 'J' due to the laboratory quality control check sample results outside of criteria.

REPORT 1 of 3

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Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
HW45	1202003-01	Drinking Water	2/06/12 10:28	2/07/12 11:17
HW45-P	1202003-02	Drinking Water	2/06/12 11:06	2/07/12 11:17
HW43-P	1202003-03	Drinking Water	2/06/12 12:19	2/07/12 11:17
HW43	1202003-04	Drinking Water	2/06/12 12:06	2/07/12 11:17
EB02	1202003-05	Water	2/05/12 15:00	2/07/12 11:17
HW15a-P	1202003-13	Drinking Water	2/07/12 10:55	2/08/12 11:15
HW31-P	1202003-14	Drinking Water	2/06/12 18:28	2/08/12 11:15
HW30	1202003-15	Drinking Water	2/06/12 14:34	2/08/12 11:15
HW30-P	1202003-16	Drinking Water	2/06/12 15:00	2/08/12 11:15
HW31	1202003-17	Drinking Water	2/06/12 18:20	2/08/12 11:15
FB11	1202003-18	Water	2/06/12 14:36	2/08/12 11:15
HW31z	1202003-19	Drinking Water	2/06/12 18:20	2/08/12 11:15
HW15a	1202003-20	Drinking Water	2/07/12 10:47	2/08/12 11:15
HW38-P	1202003-32	Drinking Water	2/08/12 10:52	2/09/12 10:45
FB13	1202003-33	Water	2/08/12 09:00	2/09/12 10:45
FB12	1202003-34	Water	2/07/12 13:35	2/09/12 10:45
HW47	1202003-35	Drinking Water	2/08/12 11:50	2/09/12 10:45
HW51	1202003-36	Drinking Water	2/07/12 13:48	2/09/12 10:45
HW38	1202003-37	Drinking Water	2/08/12 10:41	2/09/12 10:45
HW51-P	1202003-38	Drinking Water	2/07/12 13:56	2/09/12 10:45
HW47-P	1202003-39	Drinking Water	2/08/12 12:25	2/09/12 10:45

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW45	**Lab ID:** 1202003-01
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 15:19	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 15:19	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 15:19	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 15:19	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 15:19	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW45-P	**Lab ID:** 1202003-02
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 16:00	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 16:00	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 16:00	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 16:00	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 16:00	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW43-P	**Lab ID:** 1202003-03
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 16:14	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 16:14	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 16:14	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 16:14	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 16:14	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW43	**Lab ID:** 1202003-04
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 16:28	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 16:28	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 16:28	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 16:28	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 16:28	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: EB02	**Lab ID:** 1202003-05
Sample Matrix: Water	**Date Collected:** 02/05/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 16:41	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 16:41	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 16:41	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 16:41	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 16:41	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW15a-P	**Lab ID:** 1202003-13
Sample Matrix: Drinking Water	**Date Collected:** 02/07/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 16:55	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 16:55	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 16:55	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 16:55	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 16:55	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW31-P	**Lab ID:** 1202003-14
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 17:09	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 17:09	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 17:09	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 17:09	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 17:09	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW30	**Lab ID:** 1202003-15
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 17:22	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 17:22	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 17:22	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 17:22	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 17:22	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW30-P	**Lab ID:** 1202003-16
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 17:36	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 17:36	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 17:36	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 17:36	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 17:36	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW31	**Lab ID:** 1202003-17
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 17:50	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 17:50	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 17:50	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 17:50	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 17:50	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB11	**Lab ID:** 1202003-18
Sample Matrix: Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 18:04	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 18:04	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 18:04	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 18:04	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 18:04	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW31z	**Lab ID:** 1202003-19
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 18:17	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 18:17	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 18:17	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 18:17	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 18:17	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW15a	**Lab ID:** 1202003-20
Sample Matrix: Drinking Water	**Date Collected:** 02/07/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/09/12	02/09/12 18:31	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/09/12	02/09/12 18:31	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/09/12	02/09/12 18:31	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/09/12	02/09/12 18:31	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/09/12	02/09/12 18:31	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW38-P	**Lab ID:** 1202003-32
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 17:38	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 17:38	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 17:38	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 17:38	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 17:38	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB13	**Lab ID:** 1202003-33
Sample Matrix: Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 18:19	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 18:19	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 18:19	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 18:19	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 18:19	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB12	**Lab ID:** 1202003-34
Sample Matrix: Water	**Date Collected:** 02/07/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 18:33	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 18:33	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 18:33	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 18:33	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 18:33	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW47	**Lab ID:** 1202003-35
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 18:47	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 18:47	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 18:47	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 18:47	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 18:47	EPA 8015D/R3QA203

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW51	**Lab ID:** 1202003-36
Sample Matrix: Drinking Water	**Date Collected:** 02/07/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 19:00	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 19:00	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 19:00	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 19:00	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 19:00	EPA 8015D/R3QA203

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DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW38	**Lab ID:** 1202003-37
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 19:14	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 19:14	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 19:14	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 19:14	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 19:14	EPA 8015D/R3QA203

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DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW51-P	**Lab ID:** 1202003-38
Sample Matrix: Drinking Water	**Date Collected:** 02/07/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 19:28	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 19:28	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 19:28	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 19:28	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 19:28	EPA 8015D/R3QA203

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DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW47-P	**Lab ID:** 1202003-39
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/10/12	02/10/12 19:42	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/10/12	02/10/12 19:42	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/10/12	02/10/12 19:42	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/10/12	02/10/12 19:42	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/10/12	02/10/12 19:42	EPA 8015D/R3QA203

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DRAFT

Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Alcohols

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20901 - Alcohols										
Blank (BB20901-BLK1)				Prepared: 02/09/12 07:14		Analyzed: 02/09/12 14:51				
1-Butanol	U	10.0	ug/mL							
2-Butanol	U	10.0	"							
Ethanol	U	10.0	"							
Methanol	U	10.0	"							
1-Propanol	U	10.0	"							
LCS (BB20901-BS1)				Prepared: 02/09/12 07:14		Analyzed: 02/09/12 15:05				
1-Butanol	101	10.0	ug/mL	100.00		101	70-130			
2-Butanol	97.7	10.0	"	100.00		98	70-130			
Ethanol	97.6	10.0	"	100.00		98	70-130			
Methanol	93.7	10.0	"	100.00		94	70-130			
1-Propanol	98.3	10.0	"	100.00		98	70-130			
Matrix Spike (BB20901-MS1)		Source: 1202003-01		Prepared: 02/09/12 07:14		Analyzed: 02/09/12 15:33				
1-Butanol	100	10.0	ug/mL	100.00	0.00	100	70-130			
2-Butanol	96.7	10.0	"	100.00	0.00	97	70-130			
Ethanol	97.3	10.0	"	100.00	0.00	97	70-130			
Methanol	93.0	10.0	"	100.00	0.00	93	70-130			
1-Propanol	97.4	10.0	"	100.00	0.00	97	70-130			
Matrix Spike Dup (BB20901-MSD1)		Source: 1202003-01		Prepared: 02/09/12 07:14		Analyzed: 02/09/12 15:46				
1-Butanol	108	10.0	ug/mL	100.00	0.00	108	70-130	8	25	
2-Butanol	105	10.0	"	100.00	0.00	105	70-130	8	25	
Ethanol	103	10.0	"	100.00	0.00	103	70-130	6	25	
Methanol	99.1	10.0	"	100.00	0.00	99	70-130	6	25	
1-Propanol	105	10.0	"	100.00	0.00	105	70-130	7	25	

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DRAFT

Site Name: **Dimock Residential Groundwater** **Project #:** **DAS R33907**

QC Data
Alcohols

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB21002 - Alcohols										
Blank (BB21002-BLK1)				Prepared: 02/10/12 10:26		Analyzed: 02/10/12 17:11				
1-Butanol	U	10.0	ug/mL							
2-Butanol	U	10.0	"							
Ethanol	U	10.0	"							
Methanol	U	10.0	"							
1-Propanol	U	10.0	"							
LCS (BB21002-BS1)				Prepared: 02/10/12 10:26		Analyzed: 02/10/12 17:24				
1-Butanol	96.8	10.0	ug/mL	100.00		97	70-130			
2-Butanol	93.3	10.0	"	100.00		93	70-130			
Ethanol	93.5	10.0	"	100.00		94	70-130			
Methanol	91.4	10.0	"	100.00		91	70-130			
1-Propanol	94.4	10.0	"	100.00		94	70-130			
Matrix Spike (BB21002-MS1)		Source: 1202003-32		Prepared: 02/10/12 10:26		Analyzed: 02/10/12 17:52				
1-Butanol	97.6	10.0	ug/mL	100.00	0.00	98	70-130			
2-Butanol	94.1	10.0	"	100.00	0.00	94	70-130			
Ethanol	94.2	10.0	"	100.00	0.00	94	70-130			
Methanol	91.6	10.0	"	100.00	0.00	92	70-130			
1-Propanol	95.0	10.0	"	100.00	0.00	95	70-130			
Matrix Spike Dup (BB21002-MSD1)		Source: 1202003-32		Prepared: 02/10/12 10:26		Analyzed: 02/10/12 18:05				
1-Butanol	98.2	10.0	ug/mL	100.00	0.00	98	70-130	0.7	25	
2-Butanol	94.9	10.0	"	100.00	0.00	95	70-130	0.9	25	
Ethanol	93.7	10.0	"	100.00	0.00	94	70-130	0.5	25	
Methanol	94.4	10.0	"	100.00	0.00	94	70-130	3	25	
1-Propanol	95.5	10.0	"	100.00	0.00	96	70-130	0.5	25	

0.0
0.8

Possible rounding error
Double checked with more sig figs & Excel and Lims report is correct
JS 2/21/12

DRAFT

Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

Notes and Definitions

%REC Percent Recovery

RPD Relative Percent Difference

U Analyte included in the analysis, but not detected at or above the quantitation limit.

Quantitation Limit: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

DRAFT

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Alcohols by EPA 8015D	(Water)	Result calculations based on MDL
	Alcohols by EPA 8015D	(Water)	RPD calculations based on %Recovery
1202003-01	Alcohols by EPA 8015D		Status is Analyzed
1202003-02	Alcohols by EPA 8015D		Status is Analyzed
1202003-03	Alcohols by EPA 8015D		Status is Analyzed
1202003-04	Alcohols by EPA 8015D		Status is Analyzed
1202003-05	Alcohols by EPA 8015D		Status is Analyzed
1202003-13	Alcohols by EPA 8015D		Status is Analyzed
1202003-14	Alcohols by EPA 8015D		Status is Analyzed
1202003-15	Alcohols by EPA 8015D		Status is Analyzed
1202003-16	Alcohols by EPA 8015D		Status is Analyzed
1202003-17	Alcohols by EPA 8015D		Status is Analyzed
1202003-18	Alcohols by EPA 8015D		Status is Analyzed
1202003-19	Alcohols by EPA 8015D		Status is Analyzed
1202003-20	Alcohols by EPA 8015D		Status is Analyzed
1202003-32	Alcohols by EPA 8015D		Status is Analyzed
1202003-33	Alcohols by EPA 8015D		Status is Analyzed
1202003-34	Alcohols by EPA 8015D		Status is Analyzed
1202003-35	Alcohols by EPA 8015D		Status is Analyzed
1202003-36	Alcohols by EPA 8015D		Status is Analyzed
1202003-37	Alcohols by EPA 8015D		Status is Analyzed
1202003-38	Alcohols by EPA 8015D		Status is Analyzed
1202003-39	Alcohols by EPA 8015D		Status is Analyzed

Case File Notes:
- Dimock (WO# 1202003)
- Because all values were N/D on both column the routine operation of reporting the lower value is not possible. All results will be reported from the back column because the chromatography is better (ie resolution, peak shape, etc).
- All QC samples reported from back column.
- Prepared date in case file is the date the MS/MSD and BS were prepared.

Instrument QC:

Front Column (Stabilwax)

2/7/12
ICAL - All compounds linear with R > 0.995.
SCV - pass.
CCV1 - Pass.
IBL1,2,3 - pass.

2/9/12
CCV1,2 - pass.
IBL1,2 - pass.

2/10/12
CCV1,2 - pass.
IBL1,2 - pass.

Back Column (RTX-1701)

2/7/12
ICAL - All compounds linear with R > 0.995.
SCV - pass.
CCV1 - Pass.
IBL1,2,3 - pass.

2/9/12
CCV1,2 - pass.
IBL1,2 - pass.

2/10/12
CCV1,2 - pass.
IBL1,2 - pass.

Extraction QC:
Front Column (Stabilwax)

BB20901
Blank1 - pass.
BS1 - pass.
MS1 - Pass.
MSD1 - Pass.

BB21002
BLK1 - pass.
BS1 - pass.
MS1 - pass.
MSD1 - pass.

Back Column (RTX-1701)

BB20901
Blank1 - pass.
BS1 - pass.

MS1 - Pass.
MSD1 - Pass.

BB21002
BLK1 - pass.
BS1 - pass.
MS1 - pass.
MSD1 - pass.

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1202003
Kevin Martin to: R3 ESC-LB 02/09/2012 01:22 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1202003

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	8	-	AM	Analyst
Anions	AQ	8	7	RA	EPA #3 shelf 8B
Glycols	AQ	8	-	JG	Analyst
Nitrite+Nitrate	AQ	8	2	JC	EPA #3 shelf 8B
Oil & Grease	AQ	8	2	RA/JC	EPA #3 shelf 7B
SVOCs	AQ	8	7	EG/KP	EPA #3 shelf 2D
TDS	AQ	8	7	JC	EPA #3 shelf 8B
TSS	AQ	8	7	JC	EPA #3 shelf 8B
Mercury	AQ	16	2	SG	Analyst
Metals	AQ	16	2	RC/JD	Analyst
Total Nitrogen	AQ	8	2	JC	EPA #3 shelf 8B
Total Phos	AQ	8	2	RA/JC	EPA #3 shelf 8B
VOCs	AQ	11	-	SW/PZ	EPA #5 VOA
* Wrong sample containers for several O & G samples. They used the same (1 L) container for SVOC samples. Placed on sample cart again.					

Temperature Blank: Cooler #1 was 3.0 °C
Cooler #2 was 3.0 °C
Cooler #3 was 4.0 °C
Cooler #4 was 4.0 °C
Cooler #5 was 4.0 °C
Cooler #6 was 3.0 °C
Cooler #7 was 3.0 °C

Due Date: 2/29/11

Comments: NA

For Corrections/Omissions call Robin

Thank You,

Kevin Martin

Kevin Martin, Chemist
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
(410) 305-3032

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1202003
Kevin Martin to: R3 ESC-LB 02/07/2012 05:09 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1202003

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	5*	-	AM	Analyst
Anions	AQ	5	7	RA	EPA #3 shelf 2B
Glycols	AQ	5	-	JG	Analyst
Nitrite+Nitrate	AQ	5	2	JC	EPA #3 shelf 2B
Oil & Grease	AQ	5	2	RA/JC	EPA #3 shelf 7B
SVOCs	AQ	5	7	EG/KP	EPA #3 shelf 7B
TDS	AQ	5	7	JC	EPA #3 shelf 2B
TSS	AQ	5	7	JC	EPA #3 shelf 2B
Mercury	AQ	10	2	SG	Analyst
Metals	AQ	10	2	RC/JD	Analyst
Total Nitrogen	AQ	5	2	JC	EPA #3 shelf 2B
Total Phos	AQ	5	2	RA/JC	EPA #3 shelf 2B
VOCs	AQ	7	-	SW/PZ	EPA #5 VOA
* One sample vial was broken during shipment. However, the other can still be analyzed					

Temperature Blank: Cooler #1 was 4.0 °C
Cooler #2 was 4.0 °C
Cooler #3 was 4.0 °C
Cooler #4 was 4.0 °C
Cooler #5 was 4.0 °C

Due Date: 2/28/11

Comments: NA

For Corrections/Omissions call Robin

Thank You,

Kevin Martin, Chemist
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
(410) 305-3032

WORK ORDER

Printed: 2/10/2012 12:55:35PM

1202003

U.S. EPA Region 3 - FOR INTERNAL USE ONLY

Client: OSWER - Emergency Response
Project: DAS R33907
Final Report Due: 02/29/2012

Project Manager: Cindy Caporale
Site Name: Dimock Residential Groundwater
Acct#: 2012T03N303DC6A3TARS00

Report To:
Client Project Manager: Rich Fetzer
Email: fetzer.richard@epa.gov
Phone: (610) 861-2087
Fax: -

Project/WO Comments

Unvalidated data = 7 days (refer to Special Instructions)
Validated data = 21 days

Shelf

Analyst
EPA #3 Shelf 2B
EPA #3 Shelf 2D
EPA #3 Shelf 7B
EPA #3 Shelf 7C
EPA #3 Shelf 8B
EPA #5 VOA

Received By: Kevin Martin
Date Received: 02/07/12 11:17
Temperature Samples Received at 4°C
Custody Seals Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confirmed Yes
Received On Ice Yes
Radiation Checked Yes

ESAT INFO ONLY

Preliminary Report Due Date _____
ESAT Due Date _____
_____Complete _____ Not Complete
_____Need TDF _____TDF #

Sample# 1202003-01
Sample Name: HW45
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 02/06/12 10:28
Expires: 02/13/12 10:28
Analysis Comments: 71 Drinking Water
Sample Comments: 1 Alcohol vial broken; OC for VOC, SVOC

Sample Logged In: 02/07/12 15:00
Sample Received: 02/07/12 11:17
Batched

Sample# 1202003-02
Sample Name: HW45-P
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 02/06/12 11:06
Expires: 02/13/12 11:06
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 02/07/12 15:00
Sample Received: 02/07/12 11:17
Batched

Sample# 1202003-03
Sample Name: HW43-P
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 02/06/12 12:19
Expires: 02/13/12 12:19
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 02/07/12 15:00
Sample Received: 02/07/12 11:17
Batched

Sample#	1202003-04	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/07/12 15:00
Sample Name:	HW43	**Date Sampled**	02/06/12 12:06	**Sample Received:**	02/07/12 11:17
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/13/12 12:06	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-05	**Lab\Report Matrix**	Water\Water	**Sample Logged In:**	02/07/12 15:00
Sample Name:	EB02	**Date Sampled**	02/05/12 15:00	**Sample Received:**	02/07/12 11:17
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/12/12 15:00	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-13	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/08/12 12:32
Sample Name:	HW15a-P	**Date Sampled**	02/07/12 10:55	**Sample Received:**	02/08/12 11:15
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/14/12 10:55	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-14	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/08/12 12:32
Sample Name:	HW31-P	**Date Sampled**	02/06/12 18:28	**Sample Received:**	02/08/12 11:15
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/13/12 18:28	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-15	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/08/12 12:32
Sample Name:	HW30	**Date Sampled**	02/06/12 14:34	**Sample Received:**	02/08/12 11:15
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/13/12 14:34	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-16	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/08/12 12:32
Sample Name:	HW30-P	**Date Sampled**	02/06/12 15:00	**Sample Received:**	02/08/12 11:15
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/13/12 15:00	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-17	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/08/12 12:32
Sample Name:	HW31	**Date Sampled**	02/06/12 18:20	**Sample Received:**	02/08/12 11:15
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/13/12 18:20	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-18	**Lab\Report Matrix**	Water\Water	**Sample Logged In:**	02/08/12 12:32
Sample Name:	FB11	**Date Sampled**	02/06/12 14:36	**Sample Received:**	02/08/12 11:15
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/13/12 14:36	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample# 1202003-19 **Sample Name:** HW31z **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/06/12 18:20 **Expires:** 02/13/12 18:20 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/08/12 12:32 **Sample Received:** 02/08/12 11:15 **Batched**
Sample# 1202003-20 **Sample Name:** HW15a **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/07/12 10:47 **Expires:** 02/14/12 10:47 **Analysis Comments:** 71 Drinking Water **Sample Comments:** Vials broken for VOC (2), Alcohol (1)	**Sample Logged In:** 02/08/12 12:32 **Sample Received:** 02/08/12 11:15 **Batched**
Sample# 1202003-32 **Sample Name:** HW38-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/08/12 10:52 **Expires:** 02/15/12 10:52 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/09/12 11:15 **Sample Received:** 02/09/12 10:45 **Batched**
Sample# 1202003-33 **Sample Name:** FB13 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Water **Date Sampled** 02/08/12 09:00 **Expires:** 02/15/12 09:00 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/09/12 11:15 **Sample Received:** 02/09/12 10:45 **Batched**
Sample# 1202003-34 **Sample Name:** FB12 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Water **Date Sampled** 02/07/12 13:35 **Expires:** 02/14/12 13:35 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/09/12 11:15 **Sample Received:** 02/09/12 10:45 **Batched**
Sample# 1202003-35 **Sample Name:** HW47 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/08/12 11:50 **Expires:** 02/15/12 11:50 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/09/12 11:15 **Sample Received:** 02/09/12 10:45 **Batched**
Sample# 1202003-36 **Sample Name:** HW51 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/07/12 13:48 **Expires:** 02/14/12 13:48 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/09/12 11:15 **Sample Received:** 02/09/12 10:45 **Batched**
Sample# 1202003-37 **Sample Name:** HW38 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/08/12 10:41 **Expires:** 02/15/12 10:41 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/09/12 11:15 **Sample Received:** 02/09/12 10:45 **Batched**

Sample#	1202003-38	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/09/12 11:15
Sample Name:	HW51-P	**Date Sampled**	02/07/12 13:56	**Sample Received:**	02/09/12 10:45
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/14/12 13:56	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample#	1202003-39	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/09/12 11:15
Sample Name:	HW47-P	**Date Sampled**	02/08/12 12:25	**Sample Received:**	02/09/12 10:45
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/15/12 12:25	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Relative Percent Difference (RPD) for MS/MSD

$$RPD = \frac{|(SR) - (SDR)|}{\frac{1}{2}(SR + SDR)} \times 100$$

RPD -- Relative Percent Difference
SR -- Spike Recovery
SDR --MSD Recovery
|| -- Vertical Bars Indicate Absolute Value

ID	MS Spike Recovery %	MSD Spike Recovery %	RPD	Round for LIMS
BB20901-MS				
Methanol	92.99971	99.07089	6.321821247	6.3
Ethanol	97.28522	103.1315	5.834094955	5.8
1-Propanol	97.43462	104.9223	7.400449404	7.4
2-Butanol	96.74434	104.9532	8.139781569	8.1
1-Butanol	100.08107	108.4493	8.025910087	8
BB21002-MSD				
Methanol	91.57966	94.37566	3.007173981	3
Ethanol	94.17513	93.72395	0.480236518	0.5
1-Propanol	95.02037	95.52417	0.528800248	0.5
2-Butanol	94.12031	94.92791	0.854385193	0.9
1-Butanol	97.57418	98.23092	0.670809902	0.7

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202003

Dimock Residential Groundwater

DAS R33907

Log Book Copies, Run Logs

Instrument Maint. Logbook

1-26-12 HP624 column was destroyed from injecting ethylene
Acn glycol into it. I found that this column is no longer
manufactured so I will be using a DB-1701 w/
a similar coating. Retention times were previously
found to be very close between these two columns.
Also the guard column has become too brittle to
use, therefore the instrument is now configured with
two columns one from the front inlet to front detector
(Stabilwax) and one from the back inlet to the
back detector (DB-1701).

1-27-12 New RT windows established for Stabilwax
Acn column

Restek Stabilwax									
	10ppm	25ppm	50ppm	100ppm	250ppm	500ppm	SCV	Std Dev	3X Std Dev
Methanol	1.518	1.520	1.520	1.513	1.517	1.517	1.517	0.002	0.007
Ethanol	1.740	1.742	1.742	1.736	1.739	1.742	1.739	0.002	0.007
1-Propanol	2.516	2.518	2.517	2.512	2.519	2.533	2.513	0.007	0.021
2-Butanol	2.697	2.697	2.690	2.686	2.741	2.763	2.686	0.031	0.092
1-Butanol	4.772	4.773	4.775	4.767	4.773	4.781	4.769	0.004	0.013

All RT windows remain at 0.03 min except 2-butanol
which will be changed to 0.092.

1-27-12 Syringe plunger broke. Replaced it
Acn

1/31/12 Adjusted RT's on back column
Am

RT-1701									
	10ppm	25ppm	50ppm	100ppm	250ppm	500ppm	SCV	Std Dev	3X Std Dev
Methanol	2.221	2.224	2.217	2.227	2.222	2.219	2.225	0.003	0.010
Ethanol	2.428	2.432	2.422	2.435	2.424	2.422	2.427	0.005	0.015
1-Propanol	3.085	3.089	3.079	3.093	3.082	3.079	3.083	0.005	0.016
2-Butanol	3.403	3.406	3.398	3.409	3.394	3.397	3.396	0.006	0.017
1-Butanol	4.402	4.404	4.399	4.405	4.393	4.399	4.395	0.004	0.013

-All RT windows adjusted to ± 0.03 min.

Am

ICAL front

Maestro Sequence Table 1 - 1202207_ALCOHOL_FRONT.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut Copy Paste Insert Append Delete Import All Settings

Use PrepAhead

Ical sequence

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
2	IBL1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
3	Cal 1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal1-111122-ACM		Calibration	1	No Update	No Update		
4	Cal 2	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	ALCal2-111122-ACM		Calibration	2	No Update	No Update		
5	Cal 3	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0	ALCal3-111122-ACM		Calibration	3	No Update	No Update		
6	Cal 4	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0	ALCal4-111122-ACM		Calibration	4	No Update	No Update		
7	Cal 5	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0	ALCal5-111122-ACM		Calibration	5	No Update	No Update		
8	Cal 6	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0	ALCal6-111122-ACM		Calibration	6	No Update	No Update		
9	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
10	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
11	SCV	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0	ALSCV-111122-ACM		Sample					
12	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
13	BB02705-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0	water		Sample					
14	BB02705-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
15	12002001-20	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
16	BB02705-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
17	BB02705-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
18	1202001-24	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
19	1202001-26	ALCOHOLS_FRONT.M	Tray1,VT98	15	1.0			Sample					
20	1202001-28	ALCOHOLS_FRONT.M	Tray1,VT98	16	1.0			Sample					
21	1202001-30	ALCOHOLS_FRONT.M	Tray1,VT98	17	1.0			Sample					
22	1202001-32	ALCOHOLS_FRONT.M	Tray1,VT98	18	1.0			Sample					
23	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
24	IBL3	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
25	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0	ALCal4-111122-ACM		Sample					
26	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

GERSTEL Repeat 7 times Increment Vial/Data File Increment Sample Name OK Cancel Help

Modified Injector: Front Mal 15 : 1202001-26

Start Minesweeper AG3-6890N (online): Met... AG3-6890N (offline): Dat... untitled - Paint Control Panel Maestro Sequence Ta... 10:07 AM

DIM0212509 DIM0212557

Samples 1-20 front

Maestro Sequence Table 1 - 120209_ALCOHOL_FRONT.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut Copy Paste Insert Append Delete Import All Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
2	IBL1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
3	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					
4	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
5	BB20901-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	water		Sample					
6	BB20901-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0			Sample					
7	1202003-01	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0			Sample					
8	BB20901-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0			Sample					
9	BB20901-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0			Sample					
10	1202003-02	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0			Sample					
11	1202003-03	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
12	1202003-04	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
13	1202003-05	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
14	1202003-13	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
15	1202003-14	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
16	1202003-15	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
17	1202003-16	ALCOHOLS_FRONT.M	Tray1,VT98	15	1.0			Sample					
18	1202003-17	ALCOHOLS_FRONT.M	Tray1,VT98	16	1.0			Sample					
19	1202003-18	ALCOHOLS_FRONT.M	Tray1,VT98	17	1.0			Sample					
20	1202003-19	ALCOHOLS_FRONT.M	Tray1,VT98	18	1.0			Sample					
21	1202003-20	ALCOHOLS_FRONT.M	Tray1,VT98	19	1.0			Sample					
22	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
23	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
24	CCV2	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					
25	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

GERSTEL Repeat 7 times Increment Vial/Data File Increment Sample Name OK Cancel Help

Injector: Front Vial 1 - H2O

Start Minesweeper AG3-6890N (online): Mec... AG3-6890N (offline): Dat... untitled - Paint Maestro Sequence Ta... 8:05 AM

DIM0212509 DIM0212559

Samples 32 -39 Front

Maestro Sequence Table 1 - 120210_ALCOHOL_FRONT.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update ...	Interval	Amount
1	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
2	IBL1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
3	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCaM-111122-ACM		Sample					
4	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
5	B821002-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	water		Sample					
6	B821002-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0			Sample					
7	1202003-32	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0			Sample					
8	B821002-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0			Sample					
9	B821002-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0			Sample					
10	1202003-33	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0			Sample					
11	1202003-34	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
12	1202003-35	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
13	1202003-36	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
14	1202003-37	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
15	1202003-38	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
16	1202003-39	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
17	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
18	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
19	CCV2	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCaM-111122-ACM		Sample					
20	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

Vial 1: H2O

GERSTEL | Repeat 7 times | Increment Vial/Data File | Increment Sample Name | OK | Cancel | Help

Injector: Front | Vial 1 - H2O

Start | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Dat... | untitled - Paint | Control Panel | Maestro Sequence Ta... | 11:17 AM

ICAL Back

Maestro Sequence Table 1 - 120207_ALCOHOL_BACK.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use PrepAhead

Ical Sequence

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
2	IBL1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
3	Cal 1	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal1-111122-ACM		Calibration	1	No Update	No Update		
4	Cal 2	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	ALCal2-111122-ACM		Calibration	2	No Update	Vial 2: Cal 1		
5	Cal 3	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8	ALCal3-111122-ACM		Calibration	3	No Update	No Update		
6	Cal 4	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8	ALCal4-111122-ACM		Calibration	4	No Update	No Update		
7	Cal 5	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8	ALCal5-111122-ACM		Calibration	5	No Update	No Update		
8	Cal 6	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8	ALCal6-111122-ACM		Calibration	6	No Update	No Update		
9	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
10	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
11	SCV	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8	ALSCV-111122-ACM		Sample					
12	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
13	8820705-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8	water		Sample					
14	8820705-BS1	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
15	12002001-20	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
16	8820705-MS1	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
17	8820705-MSD	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
18	1202001-22	ALCOHOLS_BACK.M	Tray1,VT98	19	0.8			Sample					
19	1202001-23	ALCOHOLS_BACK.M	Tray1,VT98	20	0.8			Sample					
20	1202001-24	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
21	1202001-26	ALCOHOLS_BACK.M	Tray1,VT98	15	0.8			Sample					
22	1202001-28	ALCOHOLS_BACK.M	Tray1,VT98	16	0.8			Sample					
23	1202001-30	ALCOHOLS_BACK.M	Tray1,VT98	17	0.8			Sample					
24	1202001-32	ALCOHOLS_BACK.M	Tray1,VT98	18	0.8			Sample					
25	1202001-43	ALCOHOLS_BACK.M	Tray1,VT98	21	0.8			Sample					
26	1202001-44	ALCOHOLS_BACK.M	Tray1,VT98	22	0.8			Sample					
27	1202001-45	ALCOHOLS_BACK.M	Tray1,VT98	23	0.8			Sample					
28	1202001-46	ALCOHOLS_BACK.M	Tray1,VT98	24	0.8			Sample					
29	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
30	IBL3	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
31	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8	ALCal4-111122-ACM		Sample					
32	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					

GERSTEL | Repeat 4 times | Increment Vial/Data File | Increment Sample Name | OK | Cancel | Help

Injector: Rear | Vial 1 - H2O

Start | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Dat... | untitled - Paint | Maestro Sequence Ta... | 7:25 AM

DIM0212509 DIM0212563

Samples 1-20 Back

Maestro Sequence Table 1 - 120209_ALCOHOL_BACK.S

Syringe: 10ul — Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
2	IBL1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
3	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCoH-111122-ACM		Sample					
4	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
5	B820901-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	water		Sample					
6	B820901-BS1	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8			Sample					
7	1202003-01	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8			Sample					
8	B820901-MS1	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8			Sample					
9	B820901-MSD1	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8			Sample					
10	1202003-02	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8			Sample					
11	1202003-03	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
12	1202003-04	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
13	1202003-05	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
14	1202003-13	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
15	1202003-14	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
16	1202003-15	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
17	1202003-16	ALCOHOLS_BACK.M	Tray1,VT98	15	0.8			Sample					
18	1202003-17	ALCOHOLS_BACK.M	Tray1,VT98	16	0.8			Sample					
19	1202003-18	ALCOHOLS_BACK.M	Tray1,VT98	17	0.8			Sample					
20	1202003-19	ALCOHOLS_BACK.M	Tray1,VT98	18	0.8			Sample					
21	1202003-20	ALCOHOLS_BACK.M	Tray1,VT98	19	0.8			Sample					
22	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
23	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
24	CCV2	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCoH-111122-ACM		Sample					
25	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					

GERSTEL — Repeat 7 times — Increment Vial/Data File — Increment Sample Name — OK — Cancel — Help

Injector: Rear — Vial 1 - H2O

Start | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Dat... | untitled - Paint | Maestro Sequence Ta... | 1:53 PM

Samples 32 - 34 back

Maestro Sequence Table 1 - 120210_ALCOHOL_BACK.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut Copy Paste Insert Append Delete Import All Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
2	IBL1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
3	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
4	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
5	8821002-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	water		Sample					
6	8821002-BS1	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8			Sample					
7	1202003-32	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8			Sample					
8	8821002-MS1	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8			Sample					
9	8821002-MSD1	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8			Sample					
10	1202003-33	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8			Sample					
11	1202003-34	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
12	1202003-35	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
13	1202003-36	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
14	1202003-37	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
15	1202003-38	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
16	1202003-39	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample	Vial 13: 1202003-38				
17	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
18	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
19	CCV2	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
20	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					

GERSTEL Repeat 7 times Increment Vial/Data File Increment Sample Name OK Cancel Help

Injector : Rear Mat.1 - H2O

Start | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Dat... | untitled - Paint | Control Panel | Maestro Sequence Ta... | 11:17 AM

Alcohol

~~WASTE DILUTION~~ PREPARATION BENCH SHEET

An
2-16-12

BB20901 bch_waste.rpt

Project:	DAS R33907	**Location:**	Analyst
Work Order No:	1202003	**Prepared:**	02/09/12 07:14
Site Name:	Dimock Residential Groundwater	**SOP#:**	203
Analysis:	Alcohols by EPA 8015D	**Analyst:**	ACM

Matrix: Water

Extraction Solvent: None		**DI Water Pass:** X OK Acm		**Balance Logbook #:** N/A
Barcode #: N/A		**Reagent Purity Check:** X OK Acm		**Comments:** N/A
QC Info	**Standard ID#**	**Conc µg/mL**	**Volume Added mL**	
Surrogate Spike	N/A	N/A	N/A	
Matrix Spike	1200092	10,000	0.100	

- DI Water Pass means TOC < 25ppb and a conductivity of ≥ 18 Ω.

An
2-16-12

Printed: 2/9/2012 7:17:54AM

Alcohol Analysis

~~WASTE DILUTION~~ PREPARATION BENCH SHEET

BB20901 **bch_waste.rpt**

LabNumber	Container ID	Collection Date	Initial	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	ExtractionComments
1202003-01	J	02/06/12 10:28	1	1	N/A	N/A	N/A	N/A	71 Drinking Water
1202003-02	I	02/06/12 11:06	1	1					71 Drinking Water
1202003-03	I	02/06/12 12:19	1	1					71 Drinking Water
1202003-04	I	02/06/12 12:06	1	1					71 Drinking Water
1202003-05	I	02/05/12 15:00	1	1					71 Drinking Water
1202003-13	J	02/07/12 10:55	1	1					71 Drinking Water
1202003-14	J	02/06/12 18:28	1	1					71 Drinking Water
1202003-15	J	02/06/12 14:34	1	1					71 Drinking Water
1202003-16	J	02/06/12 15:00	1	1					71 Drinking Water
1202003-17	J	02/06/12 18:20	1	1					71 Drinking Water
1202003-18	J	02/06/12 14:36	1	1					71 Drinking Water
1202003-19	J	02/06/12 18:20	1	1					71 Drinking Water
1202003-20	J	02/07/12 10:47	1	1					71 Drinking Water
BB20901-BLK1	N/A	02/09/12 07:14	1	1					
BB20901-BS1		02/09/12 07:14	10	10	1200092		100		
BB20901-MS1		02/06/12 10:28	10	10	1200092	1202003-01	100		
BB20901-MSD1		02/06/12 10:28	10	10	1200092	1202003-01	100		

(No Surrogate)

~~WASTE DILUTION~~ PREPARATION BENCH SHEET

Am
2-16-12

BB21002 bch_waste.rpt

Project: DAS R33907
Work Order No: 1202003
Site Name: Dimock Residential Groundwater
Analysis: Alcohols by EPA 8015D

Location: Analyst
Prepared: 02/10/12 10:26
SOP#: 203
Analyst: ACM

Matrix: Water

Extraction Solvent: None		DI Water Pass: X OK Acm		Balance Logbook #: N/A
Barcode #: N/A		Reagent Purity Check: X OK Acm		Comments: - Direct Aq injection of Samples for Alcohols analysis.
QC Info	Standard ID#	Conc µg/mL	Volume Added mL	
Surrogate Spike	N/A	N/A	N/A	
Matrix Spike	1200092	10,000	0.100	

Printed: 2/10/2012 10:31:33AM

- DI Water pass means a TOC of < 25ppb and a conductivity of ≥ 18 Ω.

Am
2-16-12

~~WASTE DILUTION~~ PREPARATION BENCH SHEET

2-10-12

BB21002 **bch_waste.rpt**

LabNumber	Container ID	Collection Date 2-10-12	Initial ML	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	ExtractionComments
1202003-32	I	02/08/12 10:52	1	1	N/A	N/A	N/A	N/A	71 Drinking Water
1202003-33	I	02/08/12 09:00	1	1					71 Drinking Water
1202003-34	I	02/07/12 13:35	1	1					71 Drinking Water
1202003-35	I	02/08/12 11:50	1	1					71 Drinking Water
1202003-36	I	02/07/12 13:48	1	1					71 Drinking Water
1202003-37	I	02/08/12 10:41	1	1					71 Drinking Water
1202003-38	I	02/07/12 13:56	1	1					71 Drinking Water
1202003-39	I	02/08/12 12:25	1	1					71 Drinking Water
BB21002-BLK1	N/A	02/10/12 10:26	1	1					
BB21002-BS1		02/10/12 10:26	10	10	1200092		100		
BB21002-MS1		02/08/12 10:52	10	10	1200092	1202003-32	100		
BB21002-MSD1		02/08/12 10:52	10	10	1200092	1202003-32	100		

(No Surrogate)

* Alcohol Cal Stds

Exp 11-22-12

ID	Std	I Conc	IVol	FVol	FConc
ALCal1-111122-Acn	CH3603-111122	10,000 ppm	10 uL	10 mL	10 ppm
ALCal2-111122-Acn			25		25
ALCal3-111122-Acn			50		50
ALCal4-111122-Acn			100		100
ALCal5-111122-Acn			250		250
ALCal6-111122-Acn			500		500

Reagent Purity Check: Ok Acn | In Water 18Ω

CUS-6033
Lot: CH-3603
Exp: 12/31/2013
ULTRA 1 mL
Custom Standard
-Quote#102811-106
5 analyte(s) at 10,000 µg/mL in water
(low TOC, < 50 ppb)
250 Smith St, No Kingstown, RI 02852 USA

Received 11-22-11
Exp 11-22-12
Acn

* = used in this case file
A 2-10-12

* ALSCV-111122-Acn

exp 11-22-12 (110076C)

Std	I Conc	I Vol	F Vol	F Conc
B8060148-111122	10,000 ppm	100 µL	10 mL	100 ppm

Reagent Purity Check: ok Acn | in Water 18Ω

AccuStandard
S-10969
Custom Alcohol Mix
10 mg/mL in Water
Lot: B8060148
Exp: Jun 13, 2018
~~CH00350~~ 4/9/12 1 mL
rec 6/17/08 5 comps.
POISON
FOR LABORATORY USE ONLY
open 11-22-11
exp 11-22-12
STORAGE Ambient Acn

Florisil Phenol Chk Std in Hexane | FPhen Chk-111209-Acn | exp 5-10-12

Std	I Conc	I Vol	F Vol	F Conc
A084784-111110	1000 ppm	5 uL	50 mL	100 ppb

Reagent Purity Check: Ok Acn In Hexane 12765

~~Post Surrogate Intermediate~~ PostSurrInt-111221-Acn, Exp 2-8-12

Std	I Conc	I Vol	F Vol	F Conc
1000432	100/200 ppm	400 uL		

A 12-21-11

1016/1260 SCV - 120126 - Am Exp 3-1-12

Std	Iconc	Ivol	Fvol	Fconc
CF0785-120126	100ppm	100uL	10mL	1ppm
CG3829-120126	↓	↓	↓	↓
SurrInt-110901-Am	10ppm	100uL	↓	0.1ppm

Reagent Purity Check: OK In Hexane 12698

PP-281-1 Lot: CF-0785 Exp: 03/31/2017 ULTRA 1 mL Aroclor 1016 Solution 1 analyte(s) at 100 µg/mL in hexane 250 Smith St, No Kingstown, RI 02852 USA — Opened 7-26-12 Am Exp 7-26-12

PP-361-1 Lot: CG-3829 Exp: 12/31/2014 ULTRA 1 mL Aroclor 1260 Solution 1 analyte(s) at 100 µg/mL in hexane 250 Smith St, No Kingstown, RI 02852 USA — Opened 7-26-12 Am Exp 7-26-12

Methanol Retention time Check Std. Exp 7-26-12

Std	Iconc	Ivol	Fvol	Fconc
MeOH(neat)	neat	10uL	100mL	100ppm

Reagent Purity Chk. OK Am In Water 18Ω

Reagent Purity Check: OK Am In Water 18Ω

Ethanol Retention time Check Std. Exp 7-26-12

Std	Iconc	Ivol	Fvol	Fconc
EtOH	neat	10uL	100mL	100ppm

Reagent Purity Check: OK Am In Water 18Ω

1-Propanol Retention Time Check Std. Exp 7-26-12

Std	Iconc	Ivol	Fvol	Fconc
1-Propanol	(neat)	10uL	100mL	100ppm

B8060148 - 120204 - Alcohols Matrix spike/2nd Std.
- vial opened on 2/4/12, exp 2/4/13.
conc 10mg/L (12000 92)

AccuStandard® 125 Market St., New Haven, CT 06511 USA FOR LABORATORY USE ONLY
S-10969
Custom Alcohol Mix
10 mg/mL in Water
Lot: B8060148
Exp: Jun 13, 2018
Rec 6/12/08 0800350
1 mL
5 comps
STORAGE Ambient
POISON

Am Exp 2/4/13 Opened 2/4/12

Used in this Case file

Am 2-10-12

DIM0212509 DIM0212575

Analytical Standard Record
U.S. EPA Region 3
1200092

std_Org_analytical.rpt

Description:	ACM 111122 Custom Alcohol Mix Stock	Expires:	02/04/2013
Standard Type:	Analyte Spike	Prepared:	02/04/2012
Department:	ORGANIC- GC	Prepared By:	** Vendor **
Solvent:	Water	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	B8060148
Vials:	1	Received:	06/17/2008
Reagent Purity Checked	Aen	Mfgr Expiration:	06/13/2018

Storage: Ambient
Custom prepared standard.

Analyte	CAS Number	Concentration	Units
1-Butanol	71-36-3	10000	ug/mL
1-Propanol	71-23-8	10000	ug/mL
2-Butanol	78-92-2	10000	ug/mL
Ethanol	64-17-5	10000	ug/mL
Methanol	67-56-1	10000	ug/mL

125 Market Street
New Haven, CT 06513 US

Tel (203) 786-5290 Fax (203) 786-5287
Web www.accustandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

CATALOG NO: S-10969
DESCRIPTION: Custom Alcohol Mix
LOT NO: B8060148
SOLVENT: Water

DATE CERTIFIED: Jun 13, 2008
EXPIRATION: Jun 13, 2018
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: POISON

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

5 Components	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (mg/mL)	Certified Analyte Concentration[2] (mg/mL)
Methanol	67-56-1	100	10.01	10.01
Ethanol	64-17-5	100	10.01	10.01
1-Propanol	71-23-8	99	10.01	9.91
1-Butanol	71-36-3	100	10.00	10.00
sec-Butanol	78-92-2	98.9	10.00	9.89

Rec'd
6-17-08 by AT

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix. AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels: a comma (,) is used to separate units of one-thousand or greater; a period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: [redacted]

For use in routine laboratory analysis. Refer to the MSDS for more information.

QR-ORG/NO-001
Rev. 08/05

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001.

Alteration of any information contained herein without written permission from AccuStandard strictly prohibited.

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

Custom Standard

Product Number: CUS-5033 **Page:** 1 of 1

Lot Number: CH-3603 **Lot Issue Date:** 08-Nov-2011 **Expiration Date:** 31-Dec-2013

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
ethanol	000064-17-5	RM03898-01	10050 ± 50 µg/mL
methanol	000067-56-1	RM02298-01	10050 ± 50 µg/mL
1-propanol	000071-23-8	RM00988-02	10048 ± 50 µg/mL
1-butanol	000071-36-3	RM01813-0	10050 ± 50 µg/mL
2-butanol	000078-92-2	RM01299-0	10050 ± 50 µg/mL

Matrix: water (low TOC, < 50 ppb)

Storage: Store at < 4° C, Do Not Freeze

Rec'd
11-10-11
Am
5

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

[redacted]
Quality Assurance Manager

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202003

Dimock Residential Groundwater

DAS R33907

Calibration Data

Instrument Method

Front

Method Information

Method: C:\CHEM32\1\METHODS\ALCOHOLS_FRONT.M
Modified: 1/31/2012 at 7:43:47 AM

FID method for Alcohol analysis Front Inlet

Method Audit Trail

Operator : ACM
Date : 1/26/2012 7:24:03 AM
Change Info: This method was created at 1/26/2012 7:24:03 AM and based on method C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M

Operator : ACM
Date : 1/26/2012 7:24:06 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 9:24:29 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 10:19:31 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 11:41:43 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 1:30:06 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 1:39:57 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 9:09:23 AM
Change Info: Method saved. User comment: ""

ACM

Operator : ACM
Date : 1/27/2012 9:44:40 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/31/2012 7:43:47 AM
Change Info: Method saved. User comment: "removed signal 2 from quant report"

Run Time Checklist

Method: C:\CHEM32\1\METHODS\ALCOHOLS_FRONT.M
Modified on: 1/31/2012 at 7:43:47 AM

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: on

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

Injection Source and Location

Injection Source: Manual ← inj source is Gerstel MPS autosampler

Injection Location: Front

A 2-4-12

==========

6890 GC METHOD

==========

OVEN
Initial temp: 60 'C (On)
Initial time: 1.00 min
Ramps:

#	Rate	Final temp	Final time
1	3.00	86	0.00
2	0.0(Off)		

Post temp: 60 'C
Post time: 0.00 min
Run time: 9.67 min

Maximum temp: 200 'C
Equilibration time: 1.00 min

FRONT INLET (SPLIT/SPLITLESS)
Mode: Pulsed Splitless
Initial temp: 230 'C (On)
Pressure: 3.19 psi (On)
Pulse pressure: 15.0 psi
Pulse time: 0.30 min
Purge flow: 50.0 mL/min
Purge time: 0.30 min
Total flow: 56.7 mL/min
Gas saver: Off
Gas type: Helium

BACK INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 230 'C (On)
Pressure: 3.20 psi (On)
Purge flow: 50.0 mL/min
Purge time: 1.00 min
Total flow: 57.1 mL/min
Gas saver: Off
Gas type: Helium

ACM

COLUMN 1
Capillary Column
Model Number: Restek Stabilwax
Stabilwax
Max temperature: 260 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 0.50 um
Mode: constant flow
Initial flow: 4.0 mL/min
Nominal init pressure: 3.19 psi

COLUMN 2
Capillary Column
Model Number: Restek RTX-1701
RTX-1701
Max temperature: 270 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 1.00 um
Mode: constant pressure
Pressure: 3.20 psi
Nominal initial flow: 4.0 mL/min

DIM0212509 DIM0212584

Modified on: 1/31/2012 at 7:43:47 AM

Average velocity: 30 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

Average velocity: 30 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

FRONT DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

BACK DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 1
Data rate: 20 Hz
Type: front detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2
Data rate: 20 Hz
Type: back detector
Save Data: Off
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1
Derive from front detector

COLUMN COMP 2
Derive from back detector

POST RUN
Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint

GC Injector

Front Injector:
No parameters specified

Back Injector:
No parameters specified

The Data Analysis Parameters of the used Method are :

Calibration Table

Alcohols

-copied from ALC_QUANT-FRONT_120207.M

Calib. Data Modified : 2/9/2012 11:49:14 AM

- ICal run on 2-7-12

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

- RTs adjusted to compensate for slight shift.

AW 2-9-12

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Samples 1-20

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.513	1	1	10.00000	38.89928	2.57074e-1			Methanol
		2	25.00000	93.87627	2.66308e-1			
		3	50.00000	186.46002	2.68154e-1			
		4	100.00000	351.84988	2.84212e-1			
		5	250.00000	913.00793	2.73820e-1			
		6	500.00000	1882.80688	2.65561e-1			
1.738	1	1	10.00000	94.51188	1.05807e-1			Ethanol
		2	25.00000	234.97745	1.06393e-1			
		3	50.00000	468.15240	1.06803e-1			
		4	100.00000	929.56964	1.07577e-1			
		5	250.00000	2336.44116	1.07000e-1			
		6	500.00000	4582.42139	1.09113e-1			
2.525	1	1	10.00000	85.75124	1.16616e-1			1-Propanol
		2	25.00000	203.56302	1.22812e-1			
		3	50.00000	413.87625	1.20809e-1			
		4	100.00000	765.16553	1.30691e-1			
		5	250.00000	1987.11267	1.25811e-1			
		6	500.00000	4236.63770	1.18018e-1			
2.755	1	1	10.00000	124.97431	8.00164e-2			2-Butanol
		2	25.00000	314.13422	7.95838e-2			
		3	50.00000	638.17633	7.83483e-2			
		4	100.00000	1228.30212	8.14132e-2			

RetTime [min]	Lvl Sig		Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	3111.10181	8.03574e-2			
		6	500.00000	6195.79688	8.06999e-2			
4.770	1	1	10.00000	111.45800	8.97199e-2			1-Butanol
		2	25.00000	272.97894	9.15822e-2			
		3	50.00000	549.46362	9.09978e-2			
		4	100.00000	1060.74060	9.42738e-2			
		5	250.00000	2685.46436	9.30938e-2			
		6	500.00000	5446.19531	9.18072e-2			

More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.600 min To 2.801 min

Peak Sum Table

No Entries in table

Calibration Table

Alcohols

Calib. Data Modified : Thursday, February 09, 2012 8:16:16 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.513	1	1	10.00000	38.89928	2.57074e-1			Methanol
		2	25.00000	93.87627	2.66308e-1			
		3	50.00000	186.46002	2.68154e-1			
		4	100.00000	351.84988	2.84212e-1			
		5	250.00000	913.00793	2.73820e-1			
		6	500.00000	1882.80688	2.65561e-1			
1.738	1	1	10.00000	94.51188	1.05807e-1			Ethanol
		2	25.00000	234.97745	1.06393e-1			
		3	50.00000	468.15240	1.06803e-1			
		4	100.00000	929.56964	1.07577e-1			
		5	250.00000	2336.44116	1.07000e-1			
		6	500.00000	4582.42139	1.09113e-1			
2.528	1	1	10.00000	85.75124	1.16616e-1			1-Propanol
		2	25.00000	203.56302	1.22812e-1			
		3	50.00000	413.87625	1.20809e-1			
		4	100.00000	765.16553	1.30691e-1			
		5	250.00000	1987.11267	1.25811e-1			
		6	500.00000	4236.63770	1.18018e-1			
2.760	1	1	10.00000	124.97431	8.00164e-2			2-Butanol
		2	25.00000	314.13422	7.95838e-2			
		3	50.00000	638.17633	7.83483e-2			
		4	100.00000	1228.30212	8.14132e-2			

- ICal for Front Column
Am
2-9-12

- used for all Samples on Front Column
Am
2-15-12

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	3111.10181	8.03574e-2			
		6	500.00000	6195.79688	8.06999e-2			
4.774	1	1	10.00000	111.45800	8.97199e-2			1-Butanol
		2	25.00000	272.97894	9.15822e-2			
		3	50.00000	549.46362	9.09978e-2			
		4	100.00000	1060.74060	9.42738e-2			
		5	250.00000	2685.46436	9.30938e-2			
		6	500.00000	5446.19531	9.18072e-2			

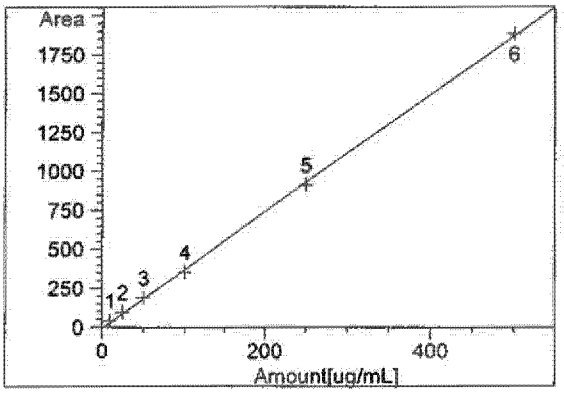
More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.605 min To 2.806 min

Peak Sum Table

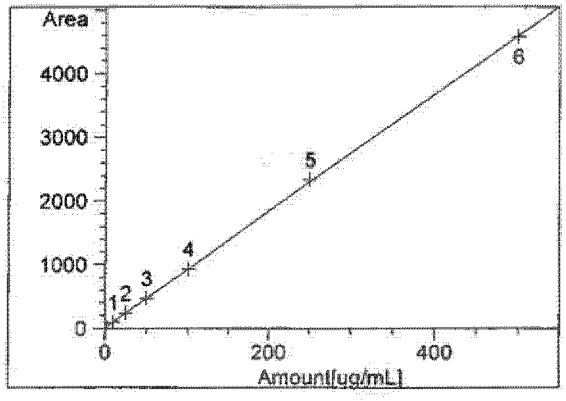
No Entries in table

Calibration Curves



Methanol at exp. RT: 1.513
FID1 A,
Correlation: 0.99982
Residual Std. Dev.: 15.23288
Formula: y = mx + b
m: 3.75868
b: -7.91091
x: Amount
y: Area

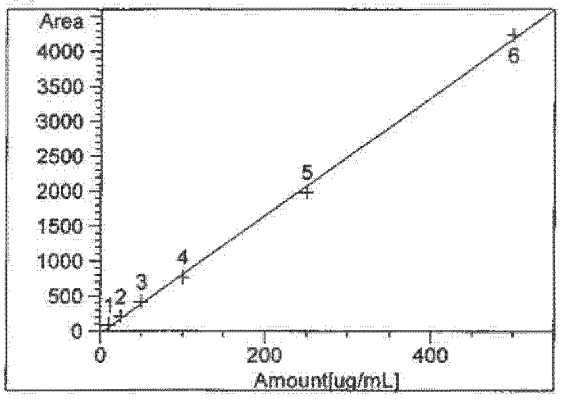
ok
Checked w/ Excel



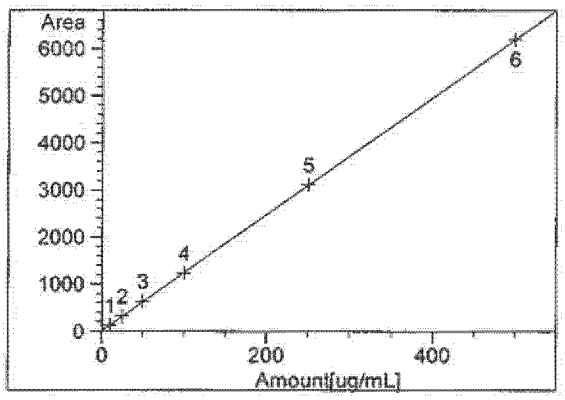
Ethanol at exp. RT: 1.738
FID1 A,
Correlation: 0.99996
Residual Std. Dev.: 18.45009
Formula: y = mx + b
m: 9.17204
b: 11.70248
x: Amount
y: Area

ok
Checked w/ Excel

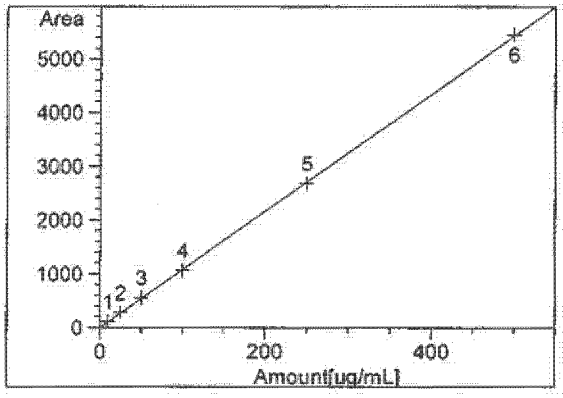
AW



1-Propanol at exp. RT: 2.528
FID1 A,
Correlation: 0.99941
Residual Std. Dev.: 61.43340
Formula: y = mx + b
m: 8.44106
b: -33.38142
x: Amount
y: Area



2-Butanol at exp. RT: 2.760
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 11.60199
Formula: y = mx + b
m: 12.38692
b: 5.11924
x: Amount
y: Area



1-Butanol at exp. RT: 4.774
FID1 A,
Correlation: 0.99996
Residual Std. Dev.: 20.30407
Formula: y = mx + b
m: 10.87616
b: -7.15098
x: Amount
y: Area

==========

Acm

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	500000000.000
Front Peak Skim Height Ratio	5000000000.000
Skim Valley Ratio	5000000000.000
Baseline Correction	Classical
Peak to Valley Ratio	5000.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Not Used
An 2-9-12

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	10.000	Initial
Initial Shoulders	OFF	Initial

Not Used
Am 2-9-12

Signal Specific Integration Event Table "Event_FID2B"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.076	Initial
Initial Area Reject	0.520	Initial
Initial Height Reject	0.057	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_FID1A"

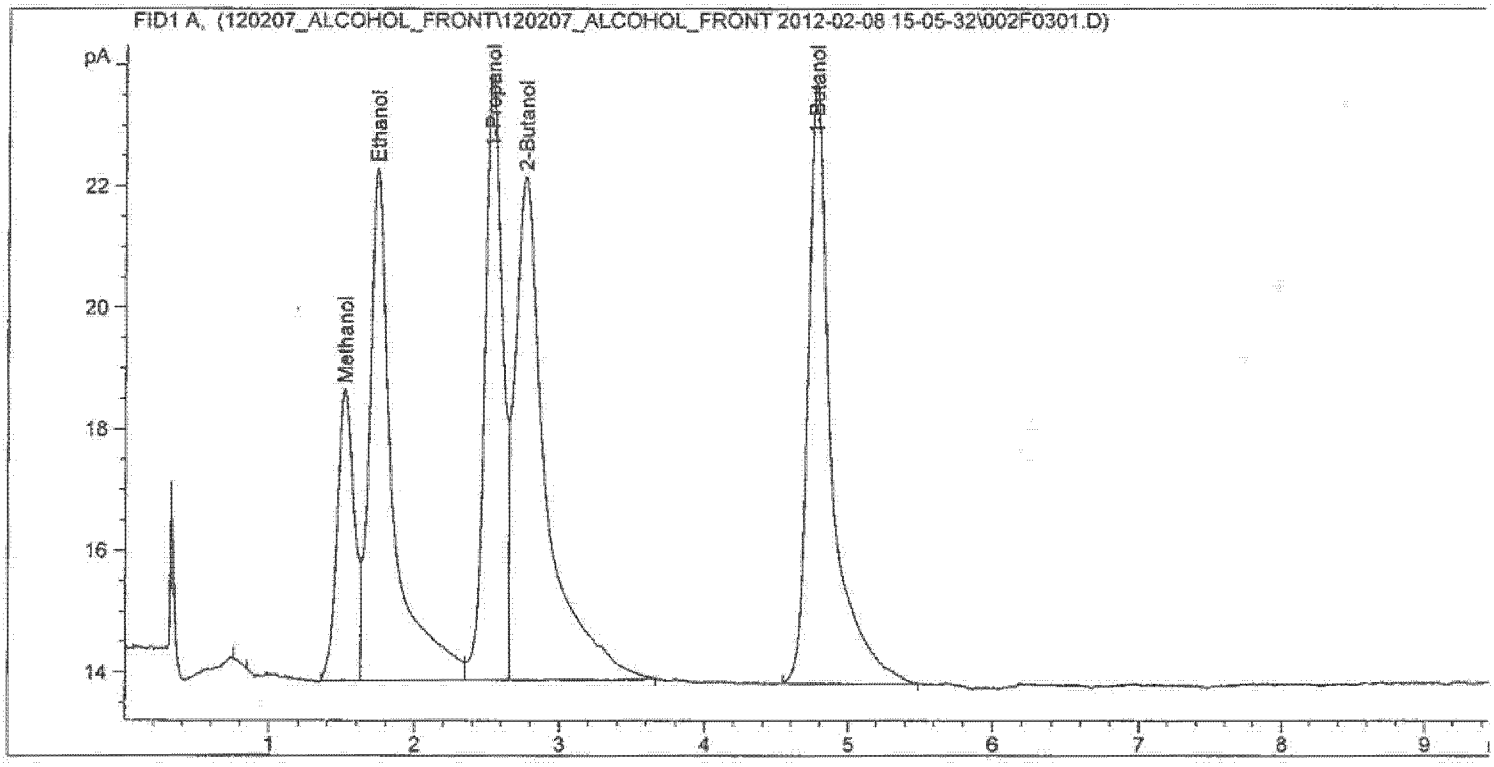
Event	Value	Time
Initial Slope Sensitivity	0.679	Initial
Initial Peak Width	0.066	Initial
Initial Area Reject	30.000	Initial
Initial Height Reject	3.000	Initial
Initial Shoulders	OFF	Initial

Apply Method's Manual Integration Events: No

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\002F0301.D
Sample Name: Cal 1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/8/2012 3:36:08 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M		
Last changed	: 2/9/2012 7:58:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal1-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aim

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517	BV	38.89928	3.20157e-1	12.45389		Methanol
1.742	VV	94.51188	9.55272e-2	9.02846		Ethanol
2.533	VV	85.75124	1.21153e-1	10.38905		1-Propanol

ok checked w/ Exce

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\002F0301.D
Sample Name: Cal 1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.767	VB	124.97431	7.74234e-2	9.67594		2-Butanol
4.776	BB	111.45800	9.78432e-2	10.90541		1-Butanol

Totals : 52.45275

*** End of Report ***

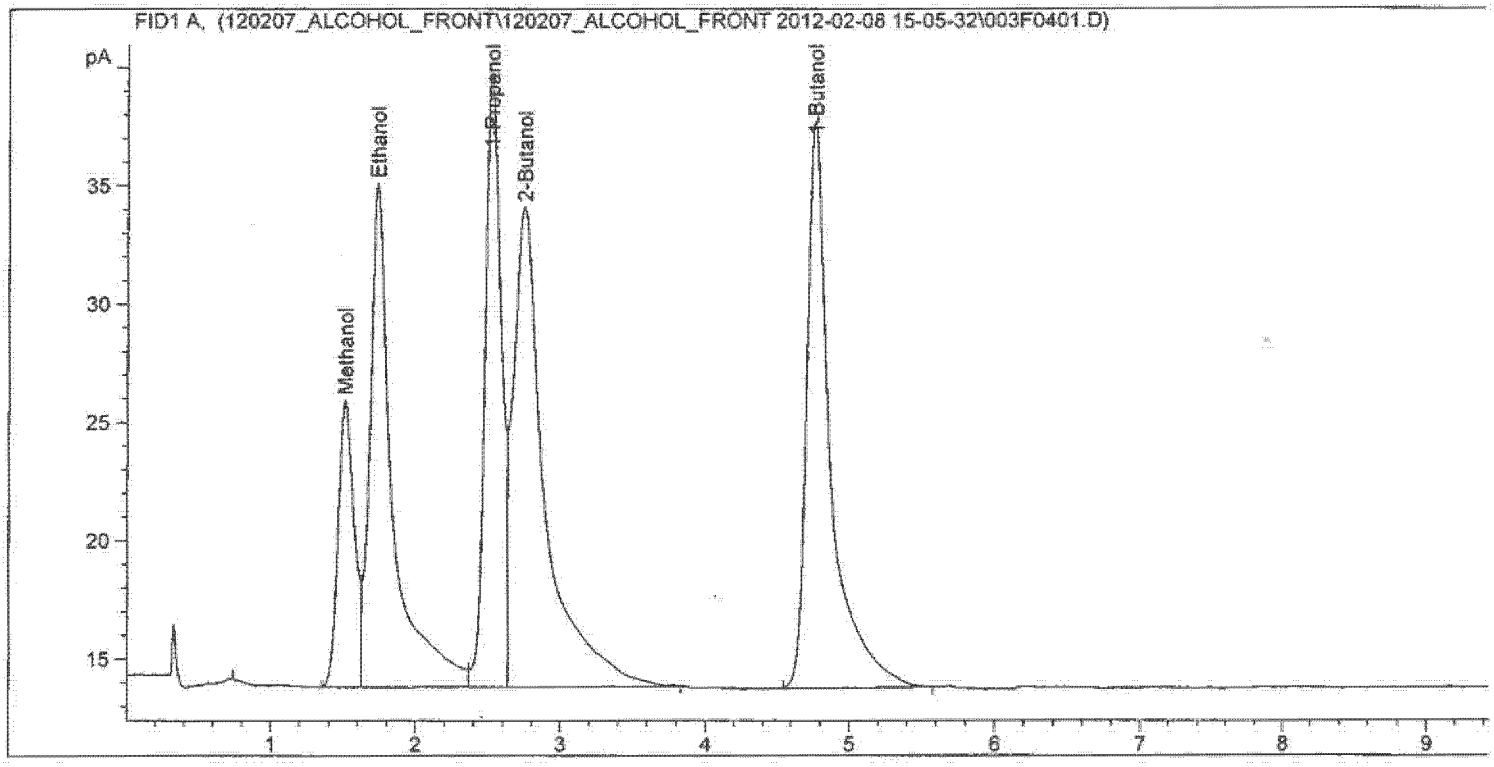
Ar

Data File C:\CHEM32\.../_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\003F0401.D
Sample Name: Cal 2

Acq. Operator	: ACM	Seq. Line :	4
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 2/8/2012 3:49:58 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal2-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.514	BV	93.87627	2.88471e-1	27.08056		Methanol
1.739	VV	234.97745	1.03597e-1	24.34300		Ethanol
2.526	VV	203.56302	1.24281e-1	25.29907		1-Propanol

— ok, checked w/ Excel

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\003F0401.D
Sample Name: Cal 2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755	VB	314.13422	7.94147e-2	24.94688		2-Butanol
4.771	BB	272.97894	9.43528e-2	25.75633		1-Butanol

Totals : 127.42584

*** End of Report ***

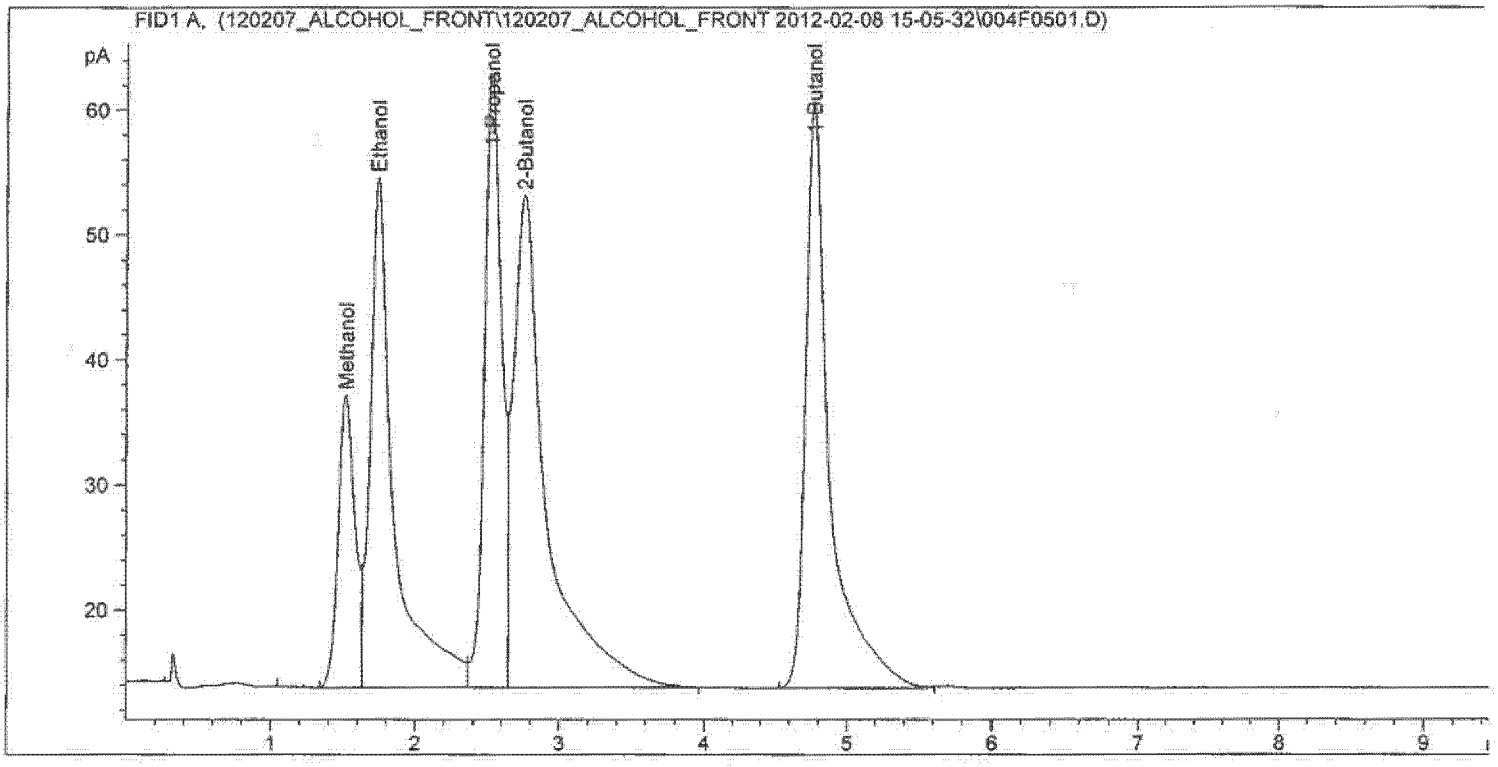
Acm

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\004F0501.D
Sample Name: Cal 3

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 2/8/2012 4:03:46 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal3-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517	BV	186.46002	2.77339e-1	51.71255		Methanol
1.741	VV	468.15240	1.06302e-1	49.76536		Ethanol
2.529	VV	413.87625	1.25438e-1	51.91590		1-Propanol

ok, checked w/ Exce

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\004F0501.D
Sample Name: Cal 3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.761	VB	638.17633	8.00827e-2	51.10690		2-Butanol
4.773	BB	549.46362	9.31408e-2	51.17751		1-Butanol
Totals :				255.67822		

*** End of Report ***

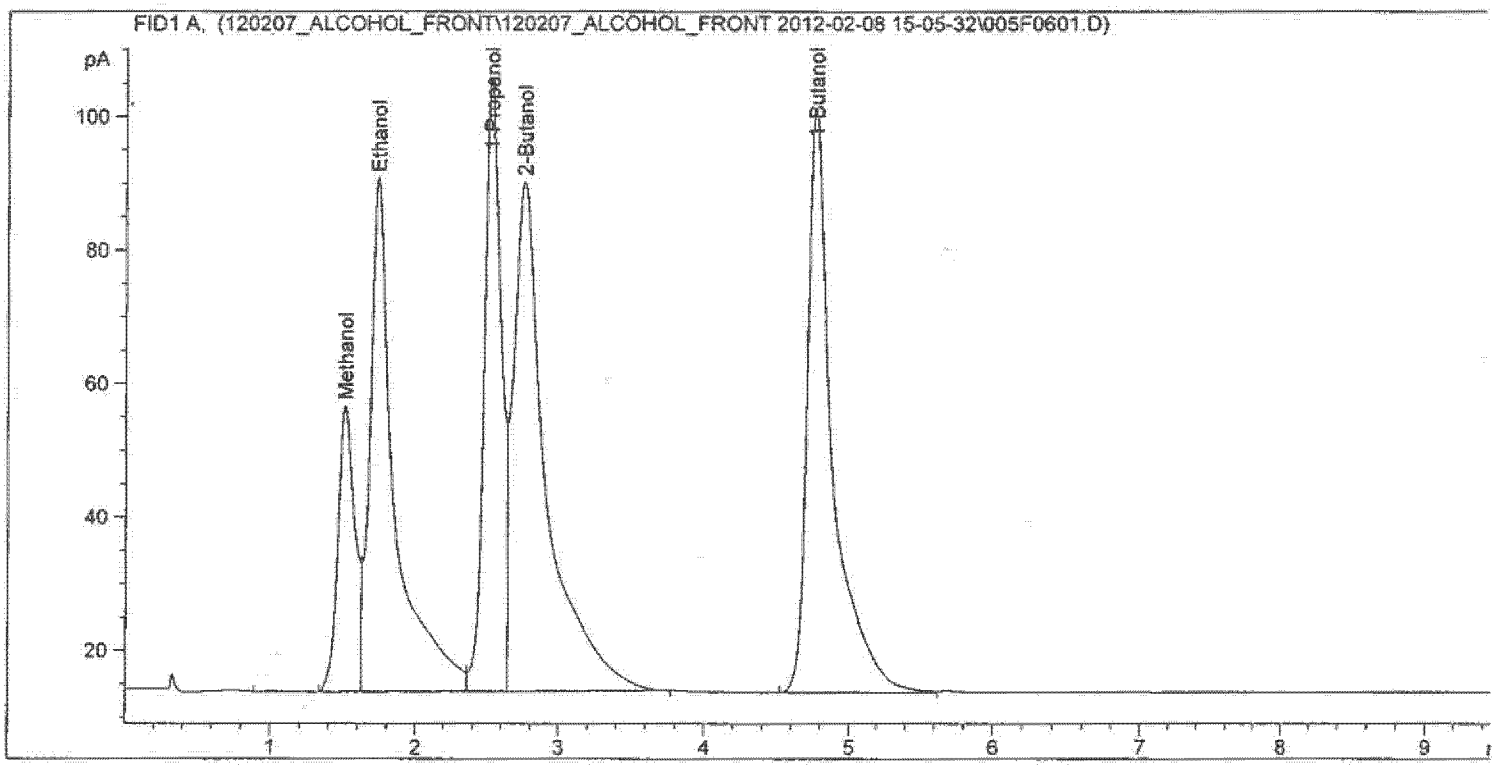
Am

Data File C:\CHEM32\..._ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\005F0601.D
Sample Name: Cal 4

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/8/2012 4:17:36 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513	BV	351.84988	2.72033e-1	95.71467		Methanol
1.738	VV	929.56964	1.07654e-1	100.07228		Ethanol
2.528	VV	765.16553	1.25952e-1	96.37438		1-Propanol

ok, checked w/Exc

Data File C:\CHEM32\..._ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\005F0601.D
Sample Name: Cal 4

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760	VB	1228.30212	8.03939e-2	98.74794		2-Butanol
4.774	BB	1060.74060	9.25641e-2	98.18648		1-Butanol

Totals : 489.09575

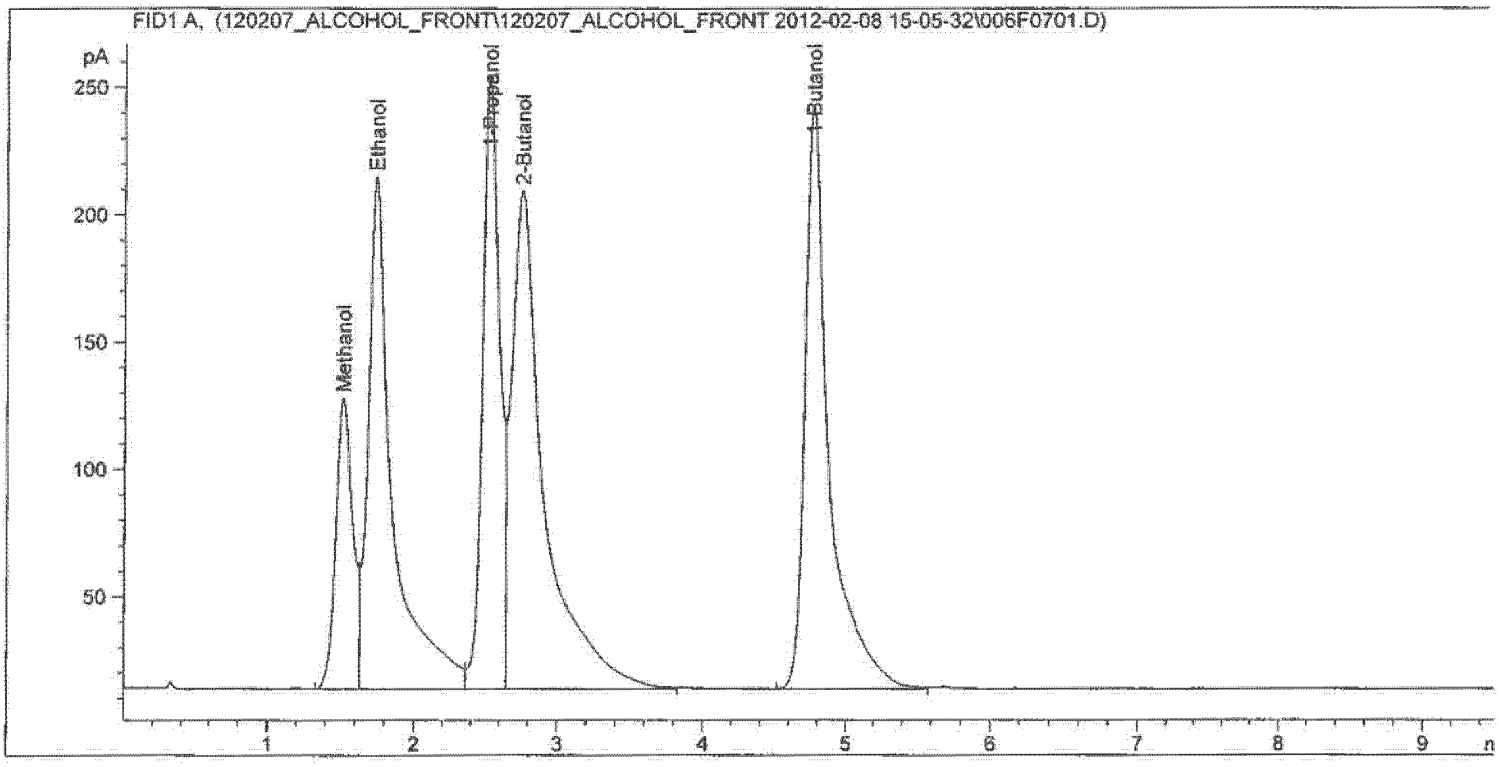
*** End of Report ***

Acm

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\006F0701.D
Sample Name: Cal 5

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 2/8/2012 4:31:26 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M		
Last changed	: 2/9/2012 7:58:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal5-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517	VV	913.00793	2.68356e-1	245.01124		Methanol
1.741	VV	2336.44116	1.08481e-1	253.45923		Ethanol
2.530	VV	1987.11267	1.26325e-1	251.02160		1-Propanol

ok, checked w/ Excel

Sample Name: Cal 5

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760	VV	3111.10181	8.05975e-2	250.74696		2-Butanol
4.777	BV	2685.46436	9.21891e-2	247.57048		1-Butanol
Totals :				1247.80952		

*** End of Report ***

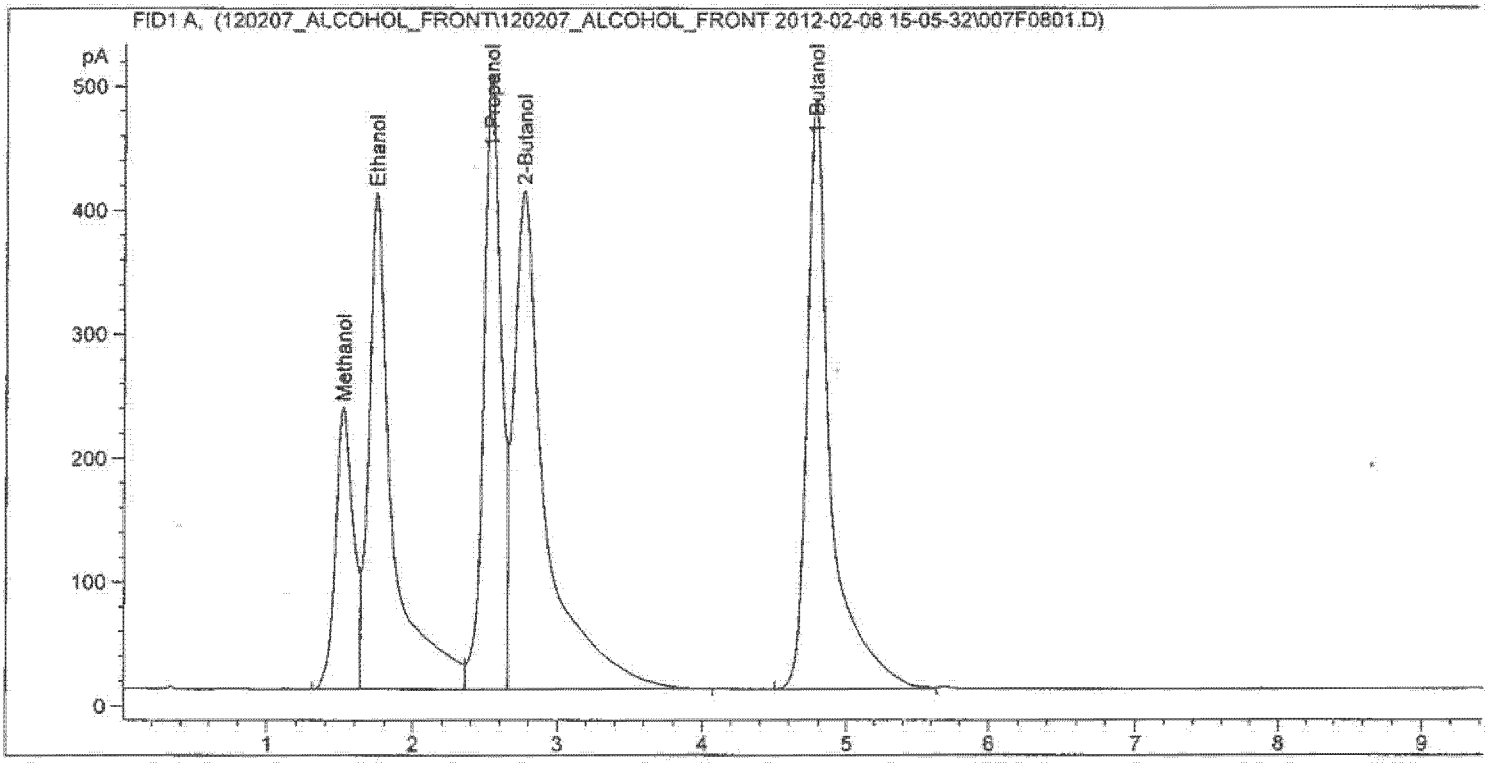
ACM

Data File C:\CHEM32\.../_ALCOHOL_FRONT\120207/_ALCOHOL_FRONT 2012-02-08 15-05-32\007F0801.D
Sample Name: Cal 6

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 2/8/2012 4:45:11 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal6-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.518	VV	1882.80688	2.67169e-1	503.02708		Methanol
1.743	VV	4582.42139	1.08749e-1	498.33167		Ethanol
2.537	VV	4236.63770	1.26449e-1	535.71705		1-Propanol

ok, checked w/ Excel

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\007F0801.D
Sample Name: Cal 6

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.770	VV	6195.79688	8.06636e-2	499.77538		2-Butanol
4.784	BV	5446.19531	9.20650e-2	501.40379		1-Butanol
Totals :				2538.25497		

*** End of Report ***

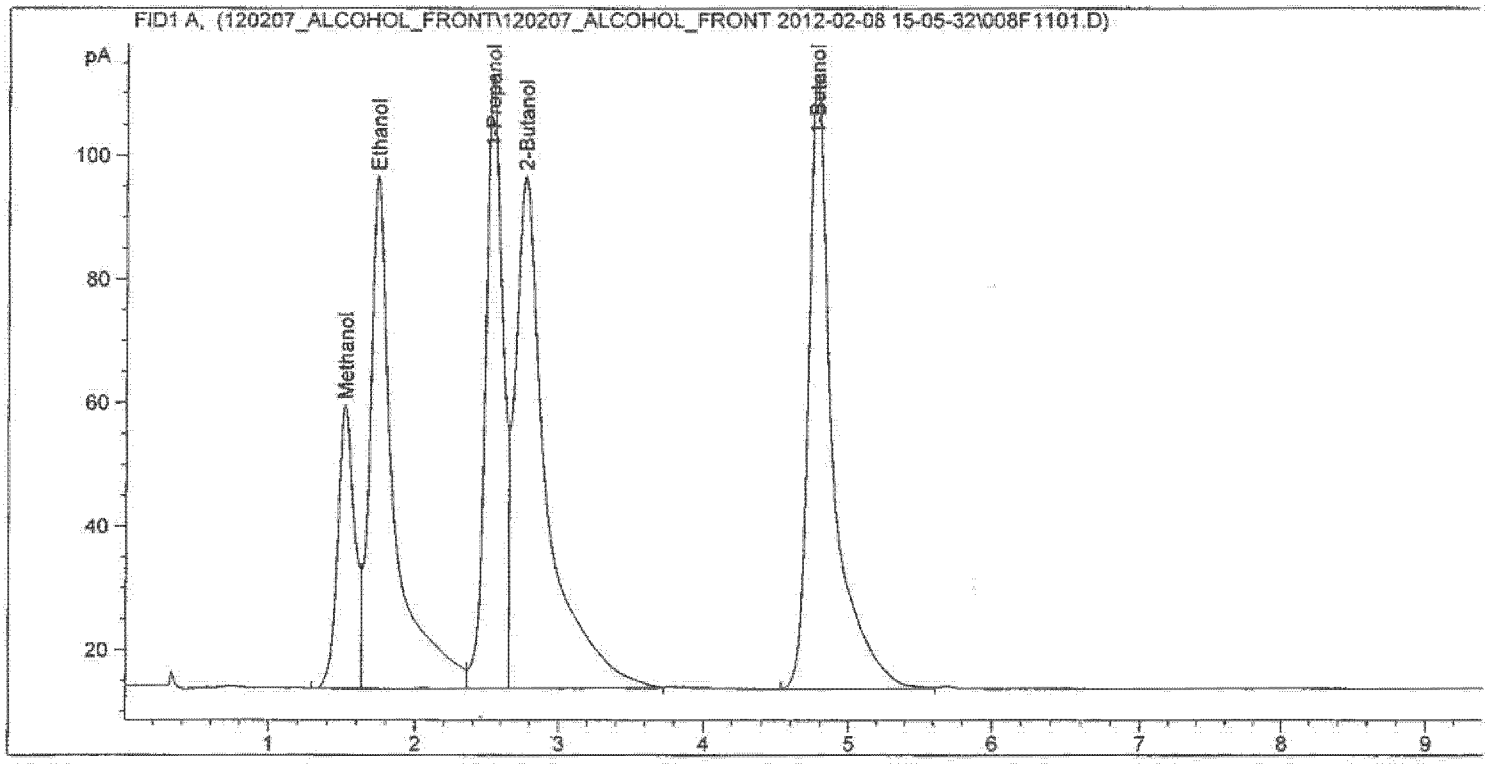
ACM

Data File C:\CHEM32\..._ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\008F1101.D
Sample Name: SCV

Acq. Operator	: ACM	Seq. Line	: 11
Acq. Instrument	: AG3-6890N	Location	: Vial 8
Injection Date	: 2/8/2012 5:26:41 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 8:16:45 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALSCV-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 8:16:16 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.520	VV	369.77991	2.71743e-1	100.48496		Methanol	0.485
1.744	VV	938.78253	1.07668e-1	101.07674		Ethanol	1.077
2.536	VV	835.64410	1.23201e-1	102.95213		1-Propanol	2.95

Pass

ok, checked w/ Excel

Data File C:\CHEM32\.../_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\008F1101.D
Sample Name: SCV

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.768	VV	1274.22742	8.04060e-2	102.45551		2-Butanol	2.46
4.779	BB	1153.26660	9.25144e-2	106.69371		1-Butanol	6.69

> pass

Totals : 513.66305

*** End of Report ***

all pass

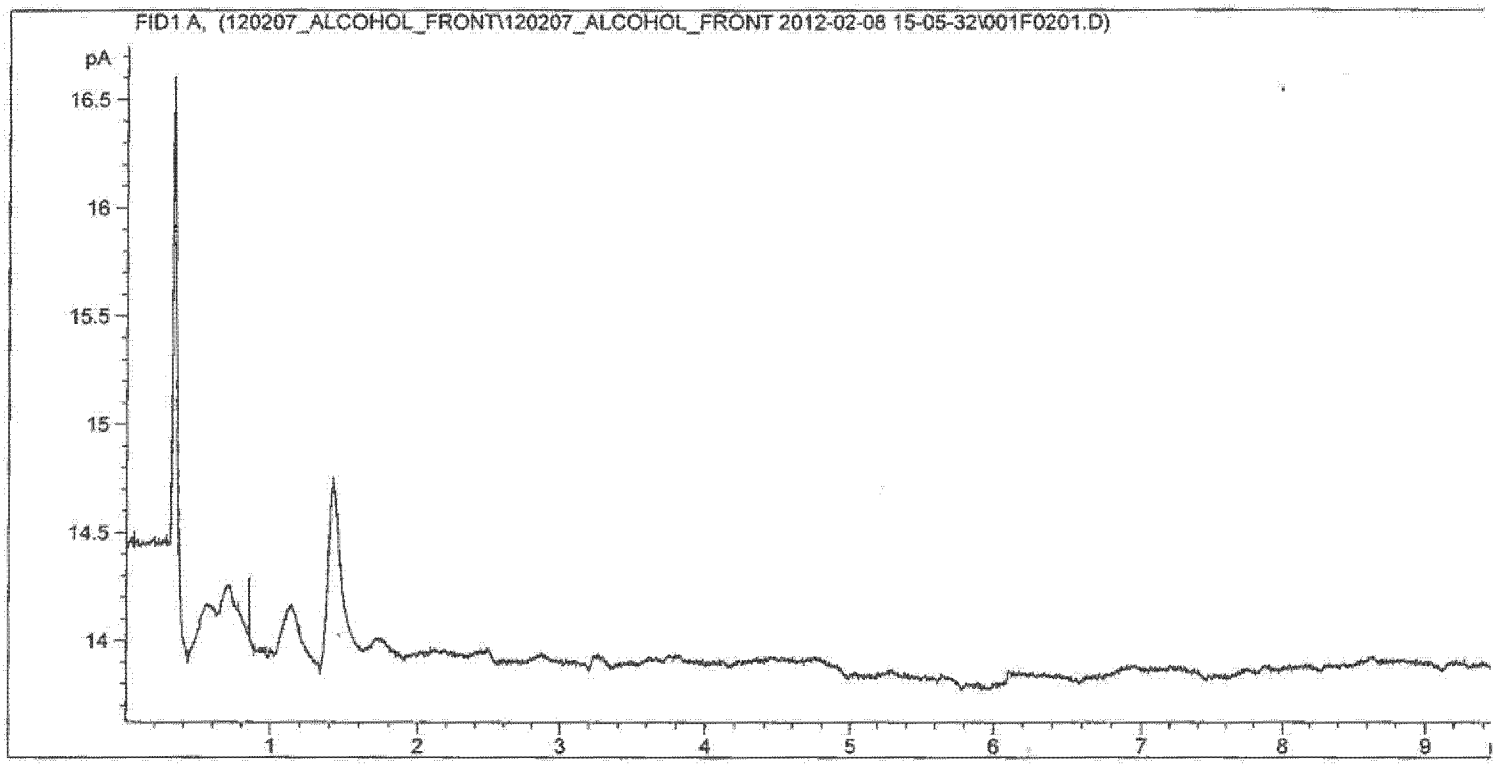
Am

Sample Name: IBL1

Acq. Operator	: ACM	Seq. Line :	2
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 2/8/2012 3:22:19 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760		-	-	-		2-Butanol
4.774		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.760		0.0000	0.00000	0.00000	2-Butanol
5	4.774		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

pass

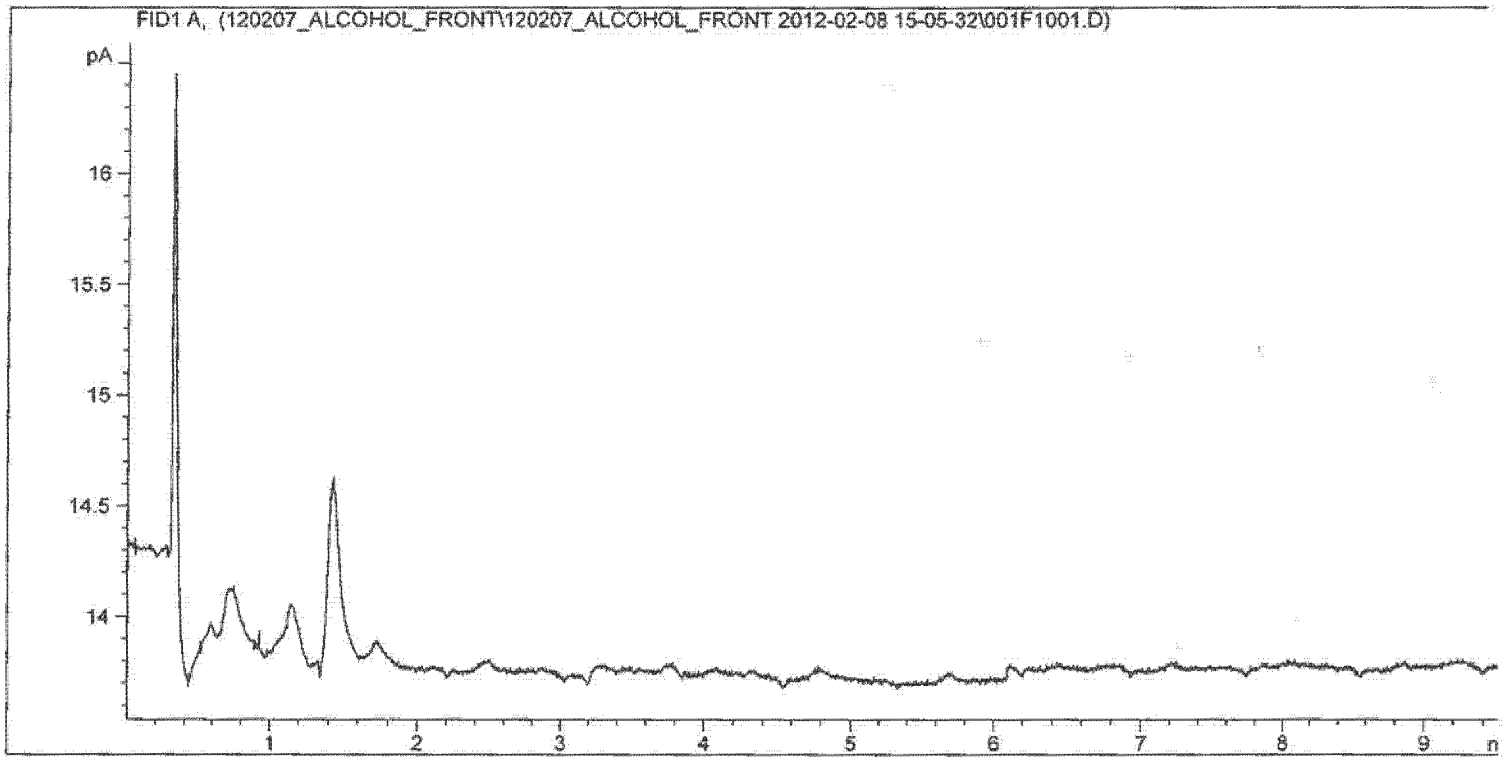
Am

Data File C:\CHEM32\.../_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\001F1001.D
Sample Name: IBL2

Acq. Operator	: ACM	Seq. Line :	10
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 2/8/2012 5:12:51 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Data File C:\CHEM32\...7_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 15-05-32\001F1001.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760		-	-	-		2-Butanol
4.774		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.760		0.0000	0.00000	0.00000	2-Butanol
5	4.774		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

Am

pass

Calibration Table

Alcohols

- Ical run on 2-7-12
- copied from:
ALC_QUANT_FRONT_120207.M

Calib. Data Modified : 2/9/2012 11:49:14 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

AH
2-10-12

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

- samples 32 - 39

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Lvl Sig		Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.513	1	1	10.00000	38.89928	2.57074e-1			Methanol
		2	25.00000	93.87627	2.66308e-1			
		3	50.00000	186.46002	2.68154e-1			
		4	100.00000	351.84988	2.84212e-1			
		5	250.00000	913.00793	2.73820e-1			
		6	500.00000	1882.80688	2.65561e-1			
1.738	1	1	10.00000	94.51188	1.05807e-1			Ethanol
		2	25.00000	234.97745	1.06393e-1			
		3	50.00000	468.15240	1.06803e-1			
		4	100.00000	929.56964	1.07577e-1			
		5	250.00000	2336.44116	1.07000e-1			
		6	500.00000	4582.42139	1.09113e-1			
2.525	1	1	10.00000	85.75124	1.16616e-1			1-Propanol
		2	25.00000	203.56302	1.22812e-1			
		3	50.00000	413.87625	1.20809e-1			
		4	100.00000	765.16553	1.30691e-1			
		5	250.00000	1987.11267	1.25811e-1			
		6	500.00000	4236.63770	1.18018e-1			
2.755	1	1	10.00000	124.97431	8.00164e-2			2-Butanol
		2	25.00000	314.13422	7.95838e-2			
		3	50.00000	638.17633	7.83483e-2			
		4	100.00000	1228.30212	8.14132e-2			

Method: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M

RetTime [min]	Lvl Sig		Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	3111.10181	8.03574e-2			
		6	500.00000	6195.79688	8.06999e-2			
4.770	1	1	10.00000	111.45800	8.97199e-2			1-Butanol
		2	25.00000	272.97894	9.15822e-2			
		3	50.00000	549.46362	9.09978e-2			
		4	100.00000	1060.74060	9.42738e-2			
		5	250.00000	2685.46436	9.30938e-2			
		6	500.00000	5446.19531	9.18072e-2			

More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.600 min To 2.801 min

Peak Sum Table

No Entries in table

ACM

Method Information

Method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified: 1/27/2012 at 3:30:25 PM

FID method for Alcohol analysis back column

Instrument Method

Method Audit Trail

Back

Operator :
Date : 12/19/1995 12:05:58 PM
Change Info:

Operator :
Date : 1/24/1996 11:14:29 AM
Change Info:

Operator :
Date : 1/24/1996 11:15:18 AM
Change Info:

Operator :
Date : 1/24/1996 11:21:15 AM
Change Info:

Operator :
Date : 10/26/2011 8:37:54 AM
Change Info: This method was created at 10/26/2011 8:37:54 AM and based on method C:\CHEM32\1\METHODS\FID_TCD.M

Operator :
Date : 10/26/2011 8:38:12 AM
Change Info: Alcohol method created from fid_tcd template

Operator :
Date : 10/26/2011 8:47:12 AM
Change Info: Adjusted MPS settings

Acn

Operator :
Date : 10/26/2011 9:54:02 AM
Change Info: Adjusted MPS params

Operator :
Date : 10/26/2011 9:56:07 AM
Change Info: updated oven program

Operator :
Date : 10/26/2011 11:19:22 AM
Change Info: test of gerstel params

Operator :
Date : 10/26/2011 12:40:26 PM
Change Info:

Operator :

Method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 3:30:25 PM
Date : 10/26/2011 1:45:28 PM
Change Info: adjusted makeup flow

Operator :
Date : 10/27/2011 7:17:33 AM
Change Info: changed oven eq time to 1min

Operator :
Date : 10/27/2011 7:20:24 AM
Change Info: updated injector params

Operator :
Date : 10/27/2011 8:18:30 AM
Change Info: adjusted oven params

Operator :
Date : 10/27/2011 9:22:01 AM
Change Info: added new column

Operator :
Date : 10/27/2011 9:54:36 AM
Change Info: adjusted oven params

Operator :
Date : 10/27/2011 10:05:35 AM
Change Info: adjusted oven program

Operator :
Date : 10/27/2011 10:49:19 AM
Change Info: adjusted oven program

Operator :
Date : 11/1/2011 7:08:52 AM
Change Info: Changed inj location

Operator :
Date : 11/3/2011 7:53:50 AM
Change Info: This method was created at 11/3/2011 7:53:50 AM and based on method C:\CHEM32\1\METHODS\ALCOHOLS.M

Operator :
Date : 11/3/2011 7:53:58 AM
Change Info: changed inj location

ACM

Operator :
Date : 11/22/2011 8:36:26 AM
Change Info: updated instrument params

Operator :
Date : 11/25/2011 10:17:19 AM
Change Info: Method saved. User comment: "updated to new chemstation version"

Operator : ACM
Date : 1/6/2012 7:50:39 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/6/2012 7:52:22 AM
Change Info: Method saved. User comment: ""

Modified on: 1/27/2012 at 3:30:25 PM
Operator : ACM
Date : 1/6/2012 8:29:35 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/6/2012 9:09:57 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/10/2012 10:08:15 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/25/2012 7:52:28 AM
Change Info: Method saved. User comment: "updated to conform to instument changes."

Operator : ACM
Date : 1/25/2012 2:32:21 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/25/2012 3:09:08 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 9:40:50 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 9:44:01 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 9:45:12 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 10:27:33 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 10:41:25 AM
Change Info: Method saved. User comment: ""

ACM

Operator : ACM
Date : 1/27/2012 10:56:59 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 3:30:25 PM
Change Info: Method saved. User comment: ""

Run Time Checklist

Pre-Run Cmd/Macro: off

Method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 3:30:25 PM

Data Acquisition: on

Standard Data Analysis: on

Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

Injection Source and Location

Injection Source: Manual ← Inj Source is Gerstel MPC Autosampler

Injection Location: Back

A
2-4-12

==========

6890 GC METHOD

==========

OVEN
Initial temp: 60 'C (On)
Initial time: 1.00 min
Ramps:

#	Rate	Final temp	Final time
1	3.00	86	0.00
2	0.0(Off)		

Post temp: 60 'C
Post time: 0.00 min
Run time: 9.67 min

Maximum temp: 200 'C
Equilibration time: 1.00 min

FRONT INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 230 'C (On)
Pressure: 3.20 psi (On)
Purge flow: 50.0 mL/min
Purge time: 0.30 min
Total flow: 56.7 mL/min
Gas saver: Off
Gas type: Helium

BACK INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 230 'C (On)
Pressure: 3.21 psi (On)
Purge flow: 50.0 mL/min
Purge time: 0.30 min
Total flow: 57.1 mL/min
Gas saver: Off
Gas type: Helium

COLUMN 1
Capillary Column
Model Number: Restek Stabilwax
Stabilwax
Max temperature: 260 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 0.50 um
Mode: constant pressure
Pressure: 3.20 psi
Nominal initial flow: 4.0 mL/min
Average velocity: 30 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

COLUMN 2
Capillary Column
Model Number: Restek RTX-1701
RTX-1701
Max temperature: 270 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 1.00 um
Mode: constant flow
Initial flow: 4.0 mL/min
Nominal init pressure: 3.21 psi
Average velocity: 31 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

Modified on: 1/27/2012 at 3:30:25 PM

FRONT DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

BACK DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 1
Data rate: 20 Hz
Type: front detector
Save Data: Off
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2
Data rate: 20 Hz
Type: back detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1
Derive from front detector

COLUMN COMP 2
Derive from back detector

POST RUN
Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint

GC Injector

Front Injector:
No parameters specified

Back Injector:
No parameters specified

Am

The Data Analysis Parameters of the used Method are :

Calibration Table

Alcohols

Calib. Data Modified : 2/10/2012 11:20:26 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

- Ical run on 2-7-12
- Copied from ALC_QUANT_BAC
— 120209.M.

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

- RTs adjusted to compensate for slight shift.
AM
2-10-12

Signal 1: FID1 A,
Signal 2: FID2 B,

- Samples 1-20

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
2.217	2	1	10.00000	27.44858	3.64318e-1			Methanol
		2	25.00000	66.79855	3.74260e-1			
		3	50.00000	131.85947	3.79192e-1			
		4	100.00000	265.83853	3.76168e-1			
		5	250.00000	682.13995	3.66494e-1			
		6	500.00000	1306.01477	3.82844e-1			
2.425	2	1	10.00000	50.36656	1.98544e-1			Ethanol
		2	25.00000	124.34087	2.01060e-1			
		3	50.00000	220.52719	2.26729e-1			
		4	100.00000	480.79263	2.07990e-1			
		5	250.00000	1199.62500	2.08398e-1			
		6	500.00000	2393.84399	2.08869e-1			
3.082	2	1	10.00000	57.32992	1.74429e-1			1-Propanol
		2	25.00000	141.68523	1.76447e-1			
		3	50.00000	280.43372	1.78295e-1			
		4	100.00000	557.77588	1.79283e-1			
		5	250.00000	1403.36816	1.78143e-1			
		6	500.00000	2778.73364	1.79938e-1			
3.401	2	1	10.00000	59.74878	1.67367e-1			2-Butanol
		2	25.00000	144.68230	1.72792e-1			
		3	50.00000	284.38565	1.75818e-1			
		4	100.00000	563.10858	1.77586e-1			

Method C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	1414.84827	1.76697e-1			
		6	500.00000	2815.14697	1.77611e-1			
4.399	2	1	10.00000	62.57820	1.59800e-1			1-Butanol
		2	25.00000	153.98088	1.62358e-1			
		3	50.00000	300.25687	1.66524e-1			
		4	100.00000	602.23804	1.66047e-1			
		5	250.00000	1514.18140	1.65106e-1			
		6	500.00000	3006.44849	1.66309e-1			

Peak Sum Table

No Entries in table

Am

Calibration Table

Alcohols

- Ical run on 2-7-12
- copied from: ALC-QUANT-BACK_120207.M.
- RTs adjusted to compensate for slight shift
- Samples 32-39

Calib. Data Modified : 2/15/2012 3:48:43 PM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

AN
2-15-12

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
2.217	2	1	10.00000	27.44858	3.64318e-1			Methanol
		2	25.00000	66.79855	3.74260e-1			
		3	50.00000	131.85947	3.79192e-1			
		4	100.00000	265.83853	3.76168e-1			
		5	250.00000	682.13995	3.66494e-1			
		6	500.00000	1306.01477	3.82844e-1			
2.425	2	1	10.00000	50.36656	1.98544e-1			Ethanol
		2	25.00000	124.34087	2.01060e-1			
		3	50.00000	220.52719	2.26729e-1			
		4	100.00000	480.79263	2.07990e-1			
		5	250.00000	1199.62500	2.08398e-1			
		6	500.00000	2393.84399	2.08869e-1			
3.079	2	1	10.00000	57.32992	1.74429e-1			1-Propanol
		2	25.00000	141.68523	1.76447e-1			
		3	50.00000	280.43372	1.78295e-1			
		4	100.00000	557.77588	1.79283e-1			
		5	250.00000	1403.36816	1.78143e-1			
		6	500.00000	2778.73364	1.79938e-1			
3.401	2	1	10.00000	59.74878	1.67367e-1			2-Butanol
		2	25.00000	144.68230	1.72792e-1			
		3	50.00000	284.38565	1.75818e-1			
		4	100.00000	563.10858	1.77586e-1			

Method C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	1414.84827	1.76697e-1			
		6	500.00000	2815.14697	1.77611e-1			
4.399	2	1	10.00000	62.57820	1.59800e-1			1-Butanol
		2	25.00000	153.98088	1.62358e-1			
		3	50.00000	300.25687	1.66524e-1			
		4	100.00000	602.23804	1.66047e-1			
		5	250.00000	1514.18140	1.65106e-1			
		6	500.00000	3006.44849	1.66309e-1			

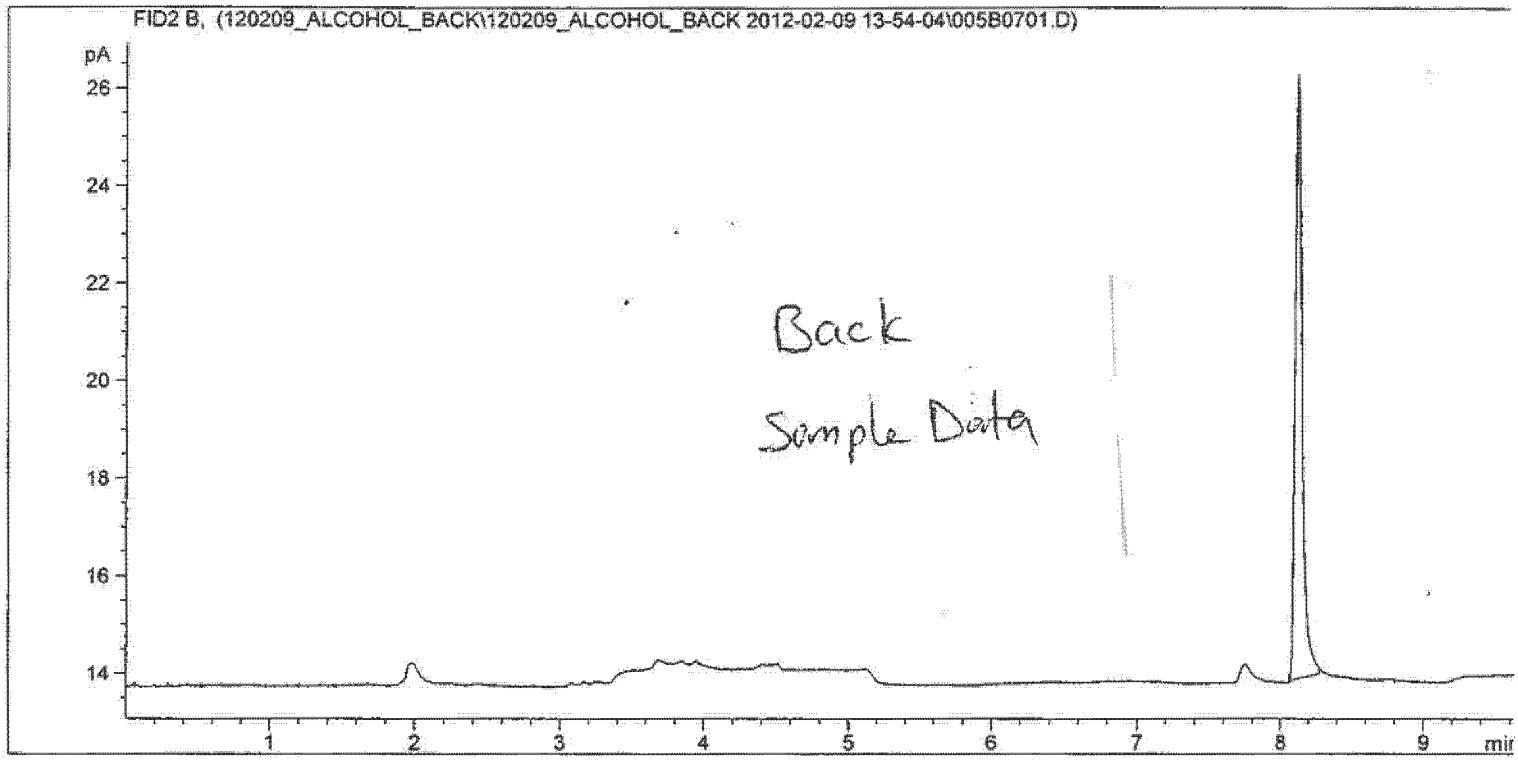
Peak Sum Table

No Entries in table

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\005B0701.D
Sample Name: 1202003-01

==========

Acq. Operator : ACM
Seq. Line : 7
Acq. Instrument : AG3-6890N
Location : Vial 5
Injection Date : 2/9/2012 3:19:22 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acn

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\008B1001.D
Sample Name: 1202003-02

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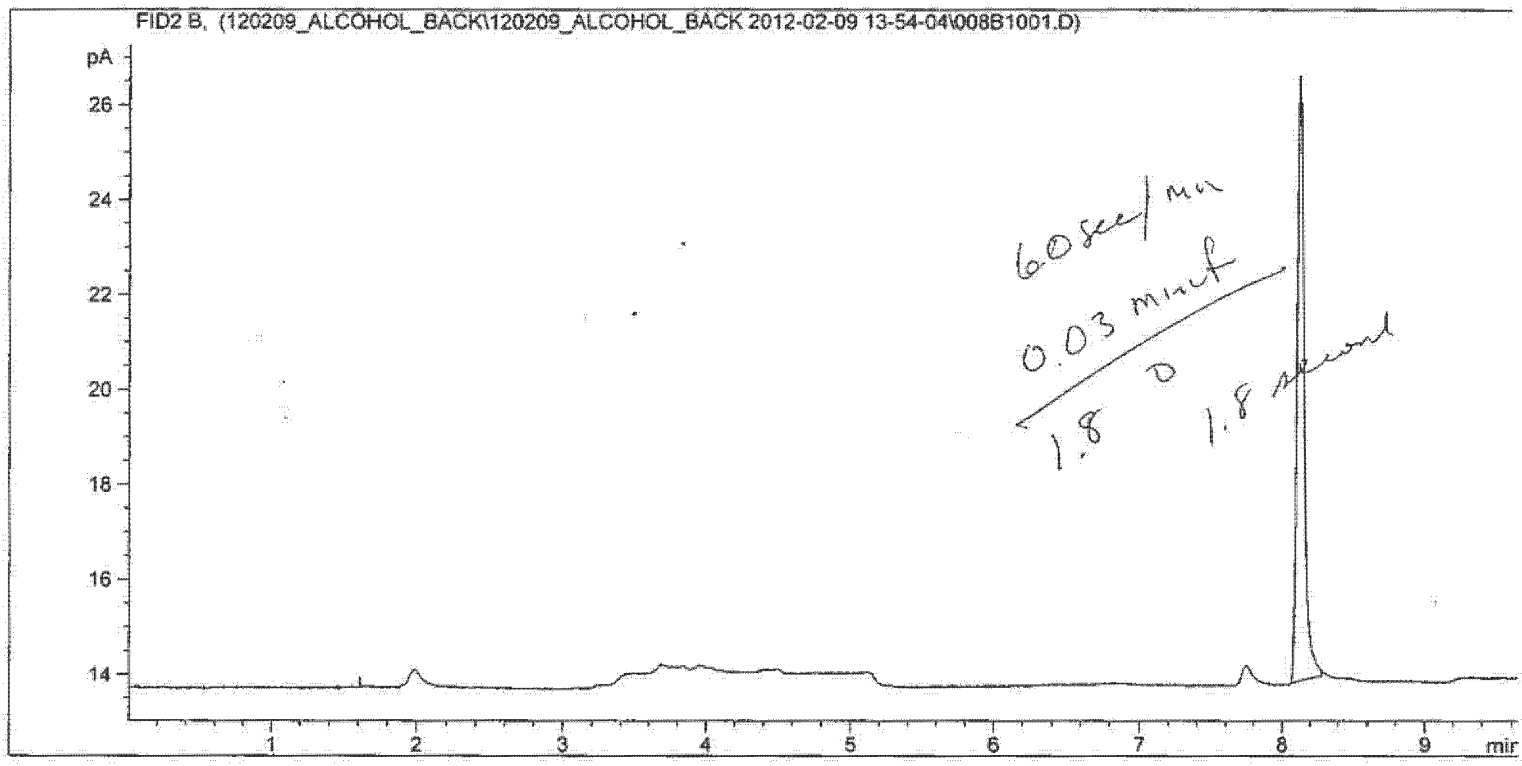
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 4:00:34 PM
Seq. Line : 10
Location : Vial 8
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

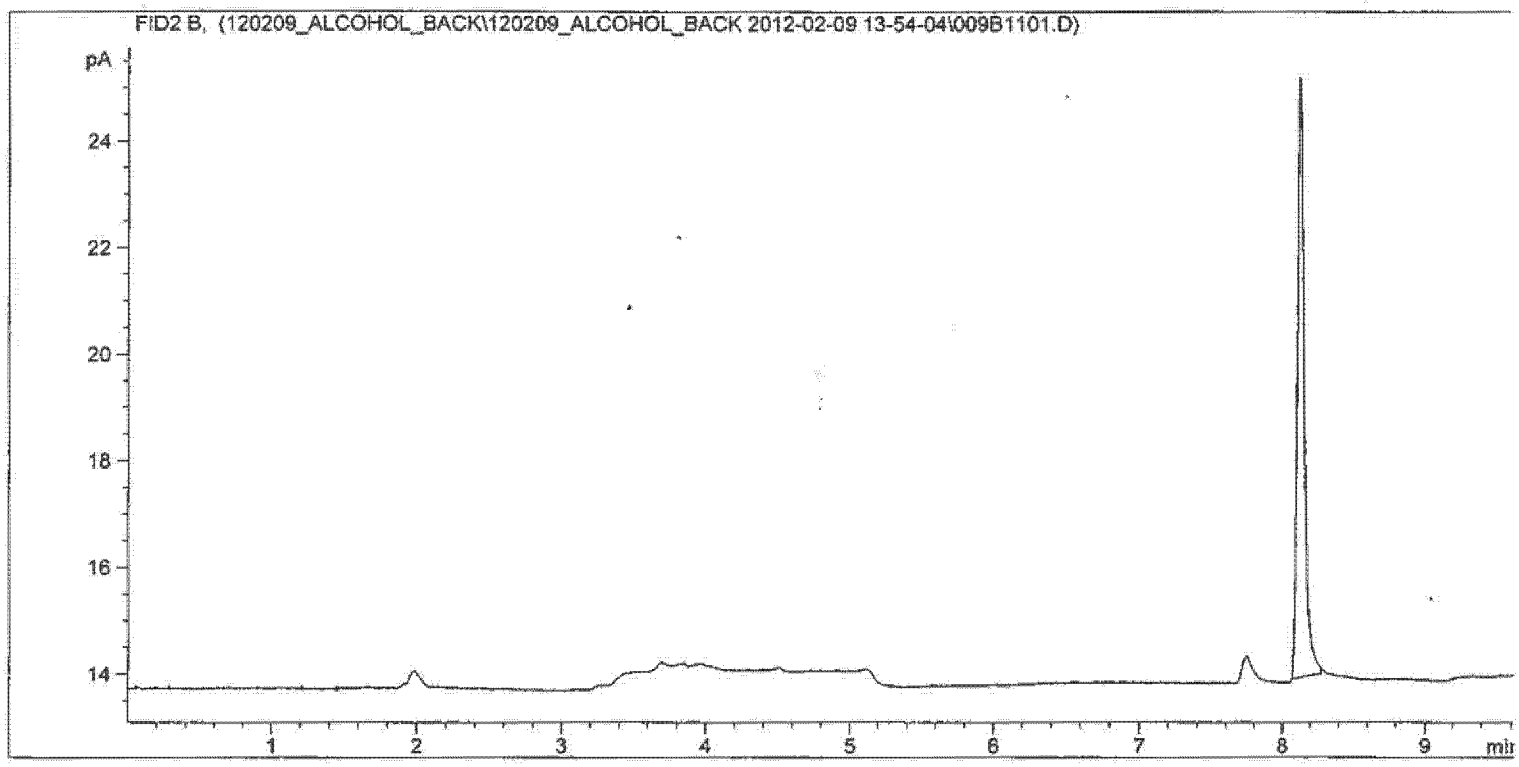
Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\009B1101.D
Sample Name: 1202003-03

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 4:14:19 PM

Seq. Line : 11
Location : Vial 9
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

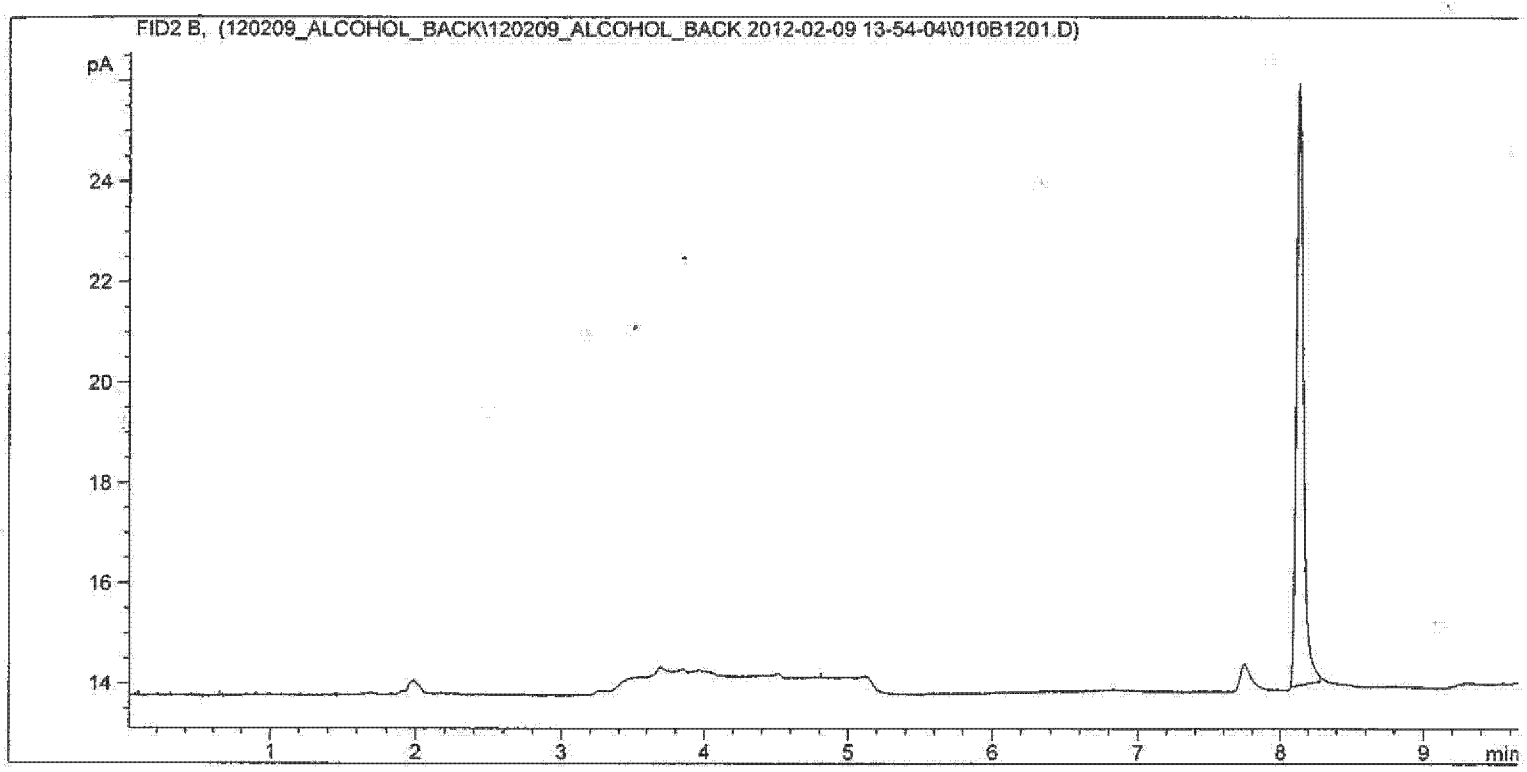
ata File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\010B1201.D
ample Name: 1202003-04

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 4:28:03 PM

Seq. Line : 12
Location : Vial 10
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

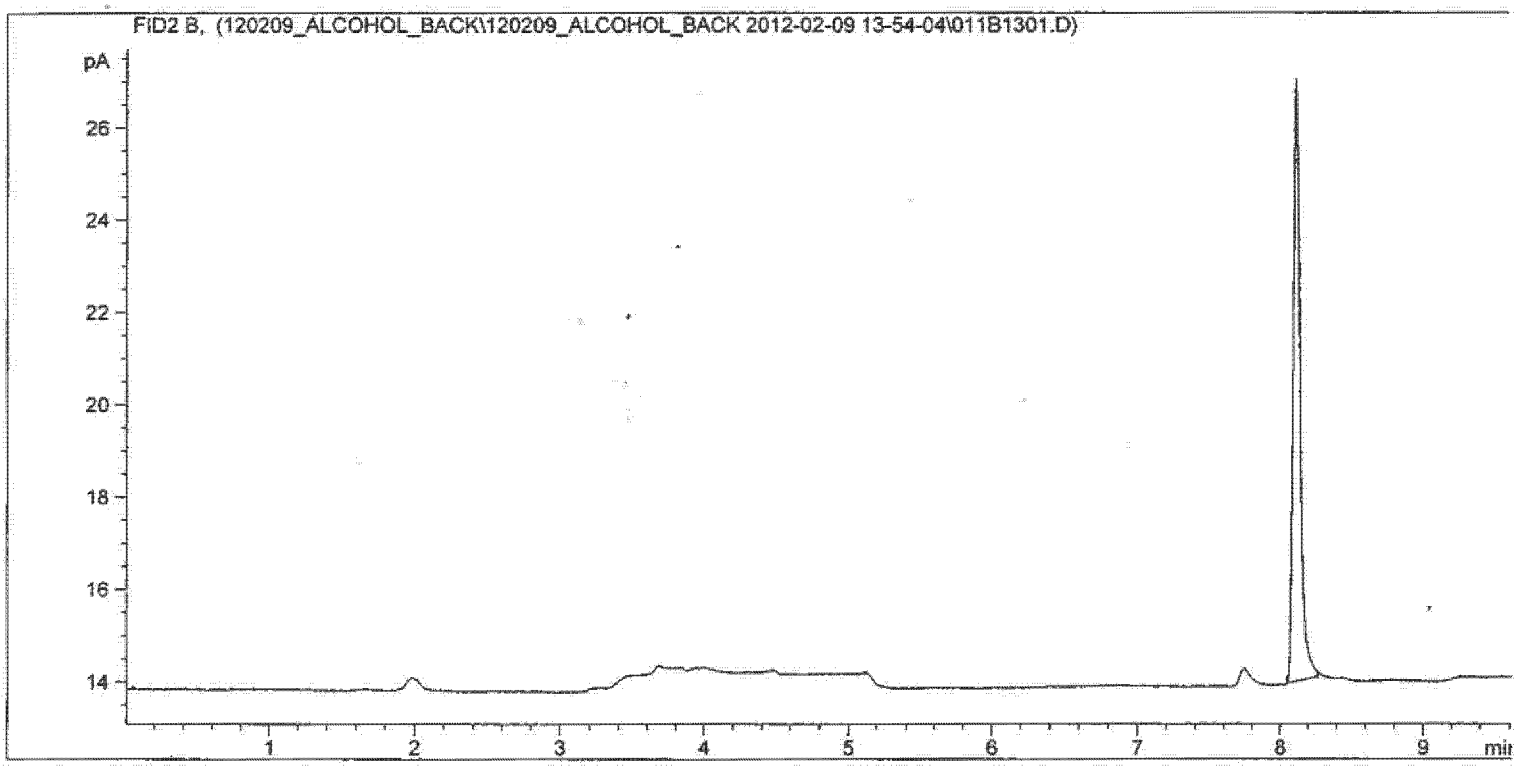
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\011B1301.D
Sample Name: 1202003-05

Acq. Operator	: ACM	Seq. Line :	13
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 2/9/2012 4:41:48 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

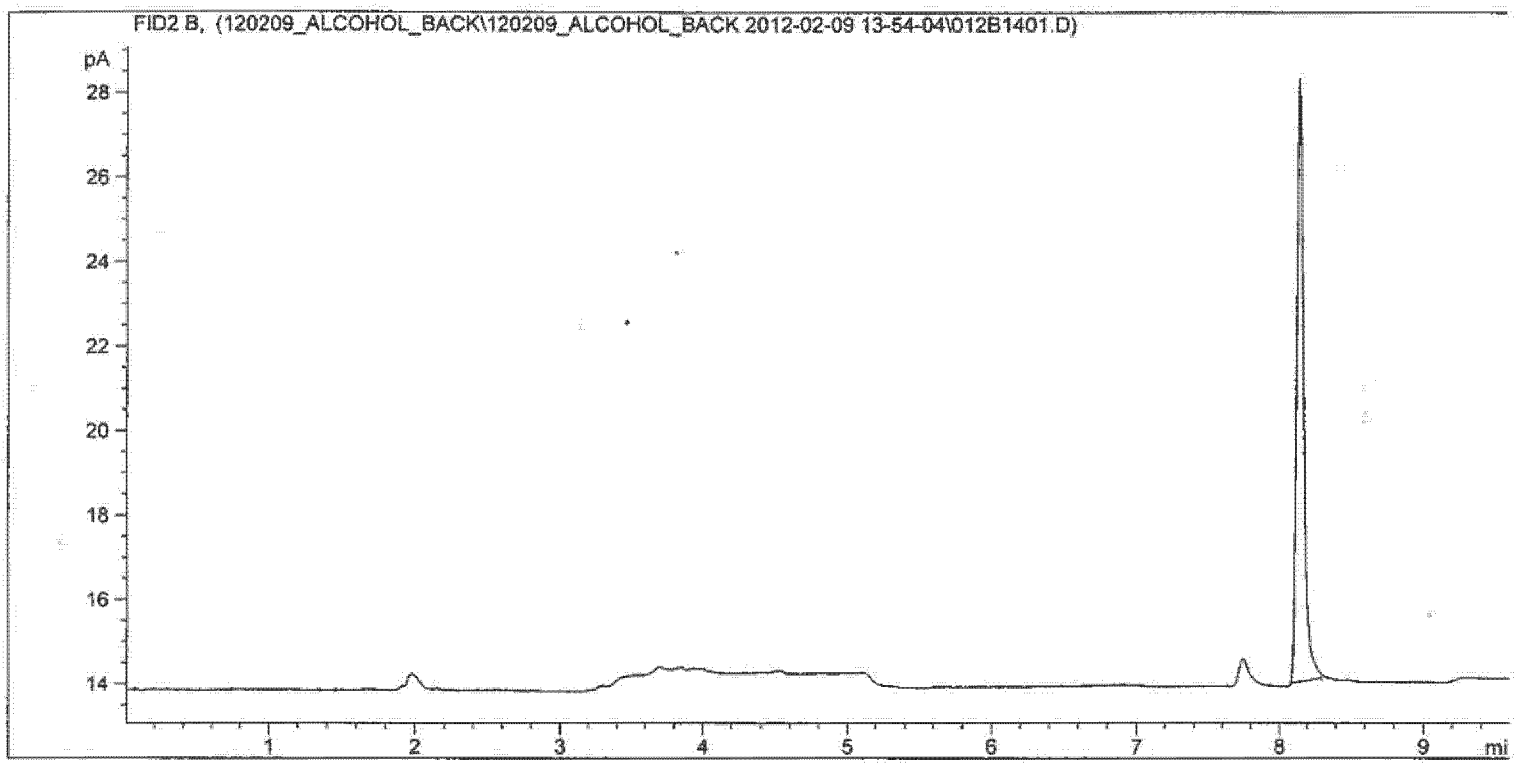
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\012B1401.D
Sample Name: 1202003-13

Acq. Operator	: ACM	Seq. Line	: 14
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 2/9/2012 4:55:32 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acn

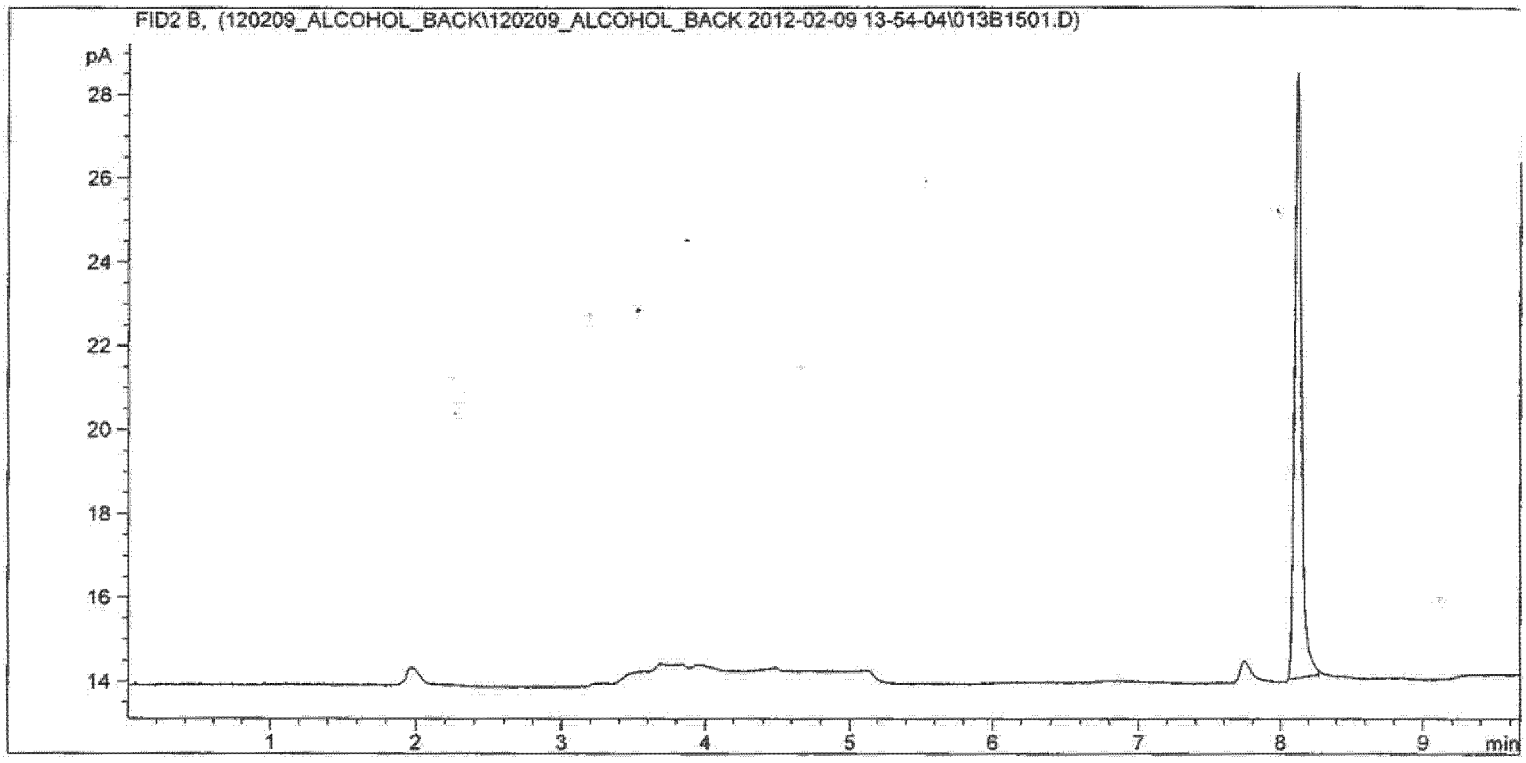
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\013B1501.D
Sample Name: 1202003-14

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 13
Injection Date	: 2/9/2012 5:09:15 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aem

Signal 1: FID2 B,

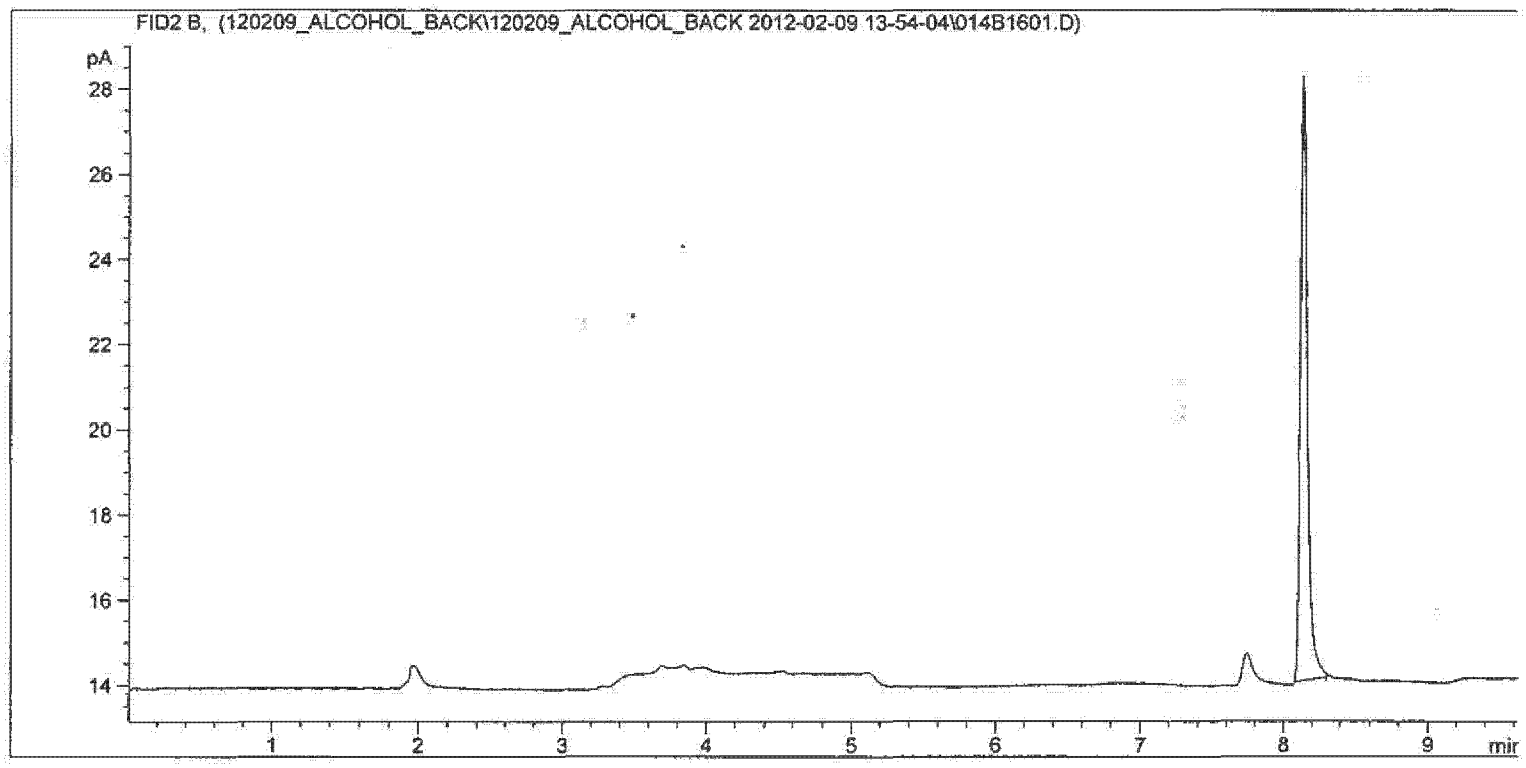
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\014B1601.D
Sample Name: 1202003-15

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 5:22:59 PM
Seq. Line : 16
Location : Vial 14
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

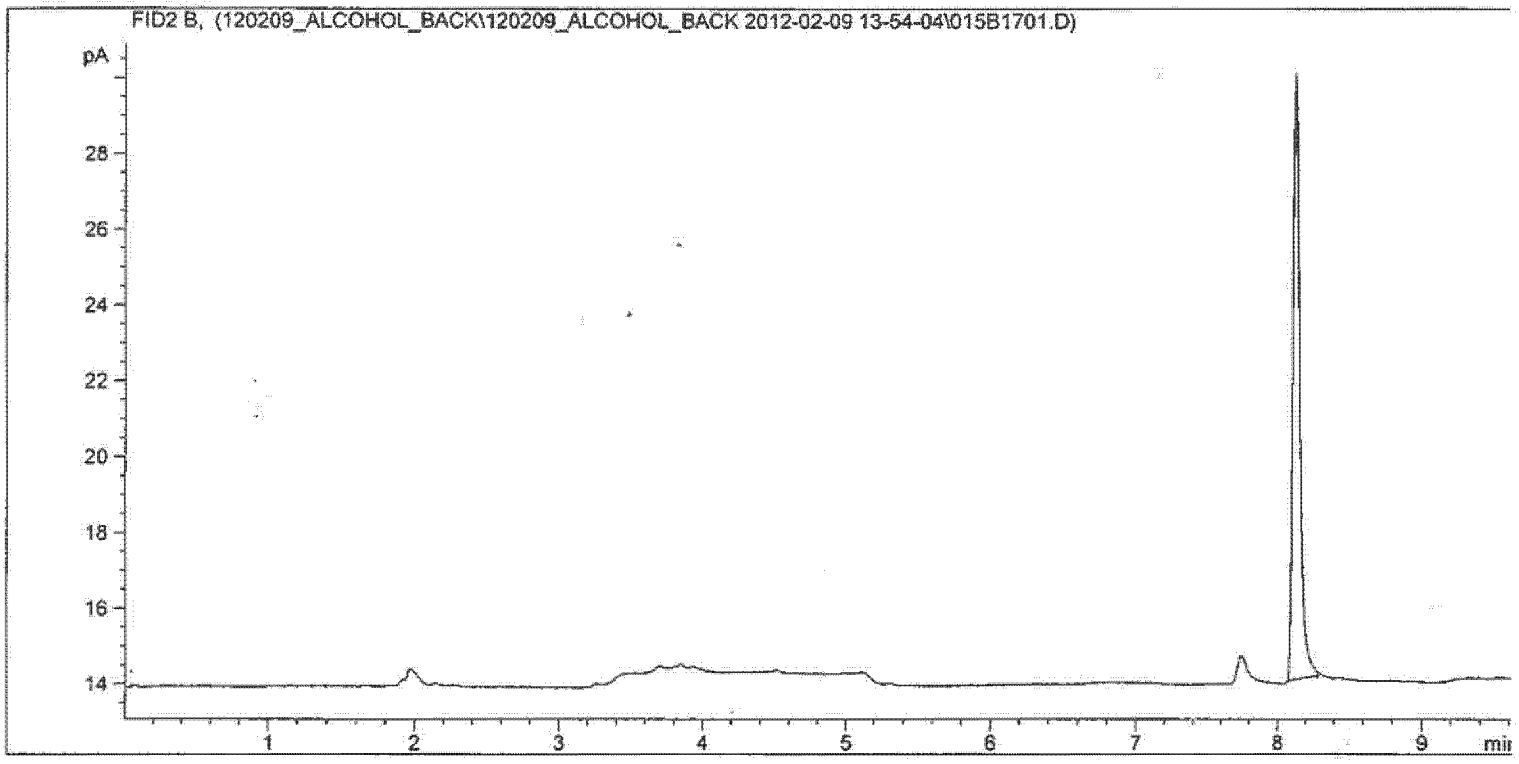
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\015B1701.D
Sample Name: 1202003-16

Acq. Operator	: ACM	Seq. Line	: 17
Acq. Instrument	: AG3-6890N	Location	: Vial 15
Injection Date	: 2/9/2012 5:36:44 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

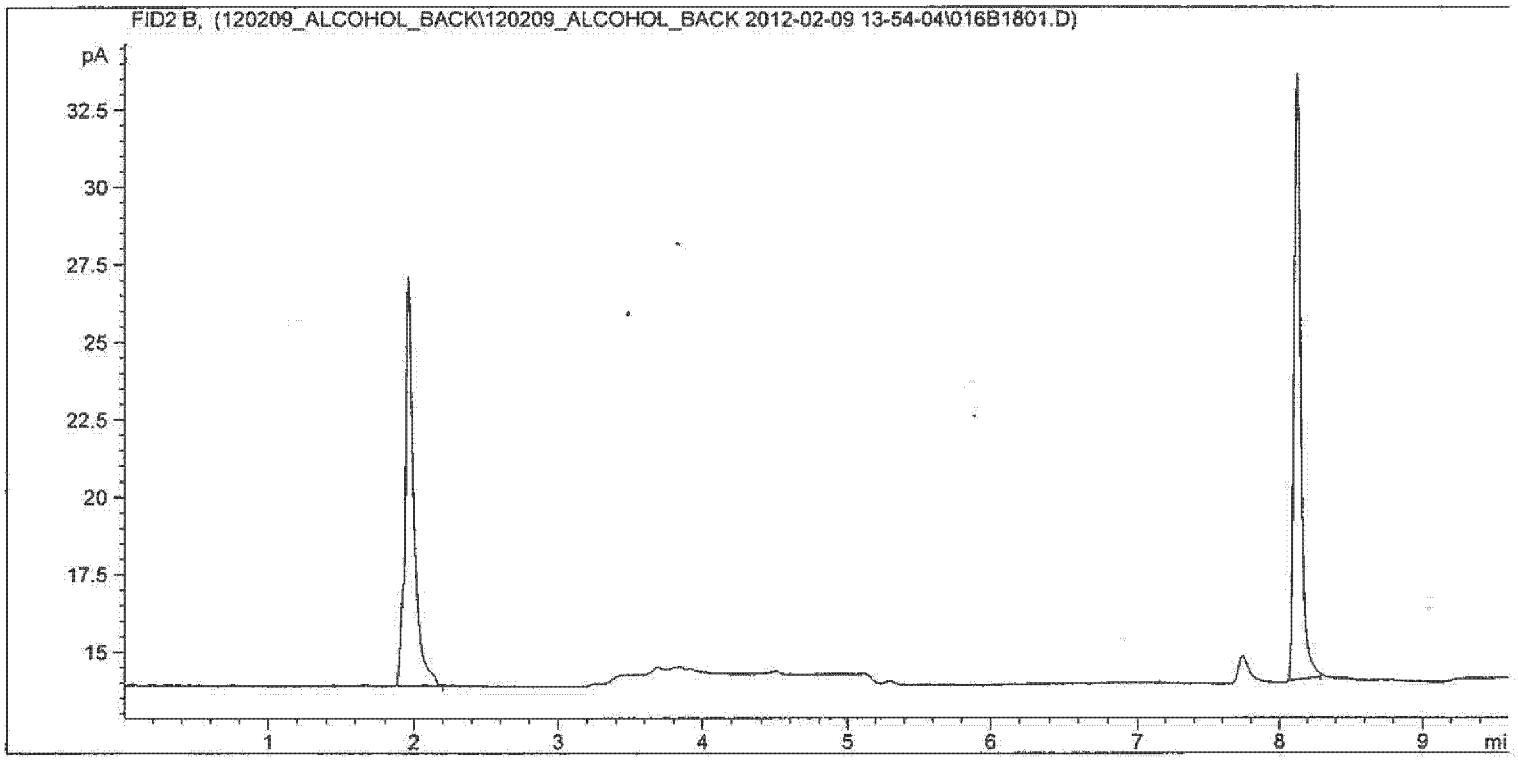
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\016B1801.D
Sample Name: 1202003-17

Acq. Operator	: ACM	Seq. Line	: 18
Acq. Instrument	: AG3-6890N	Location	: Vial 16
Injection Date	: 2/9/2012 5:50:28 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

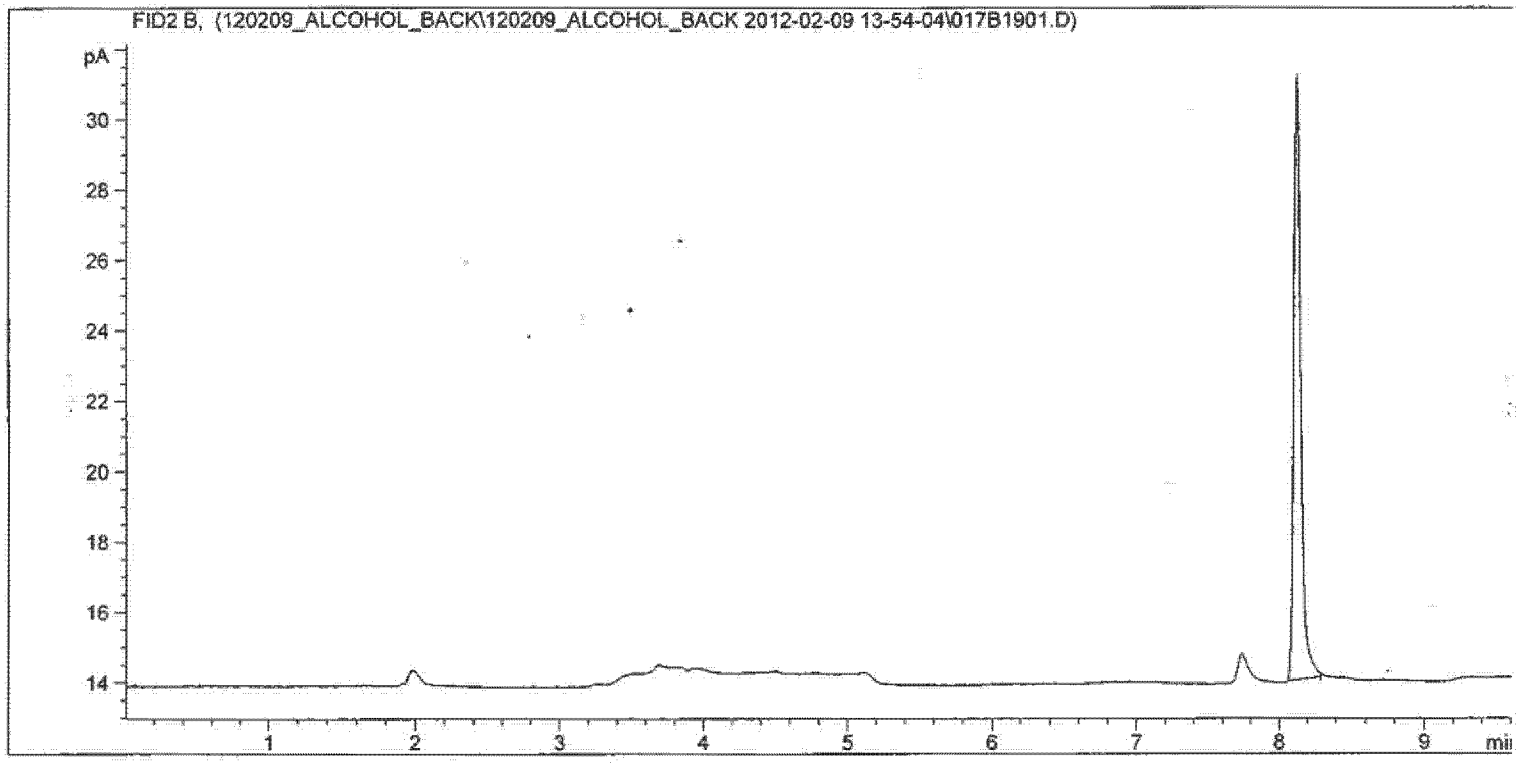
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\017B1901.D
Sample Name: 1202003-18

Acq. Operator	: ACM	Seq. Line	: 19
Acq. Instrument	: AG3-6890N	Location	: Vial 17
Injection Date	: 2/9/2012 6:04:12 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\018B2001.D
Sample Name: 1202003-19

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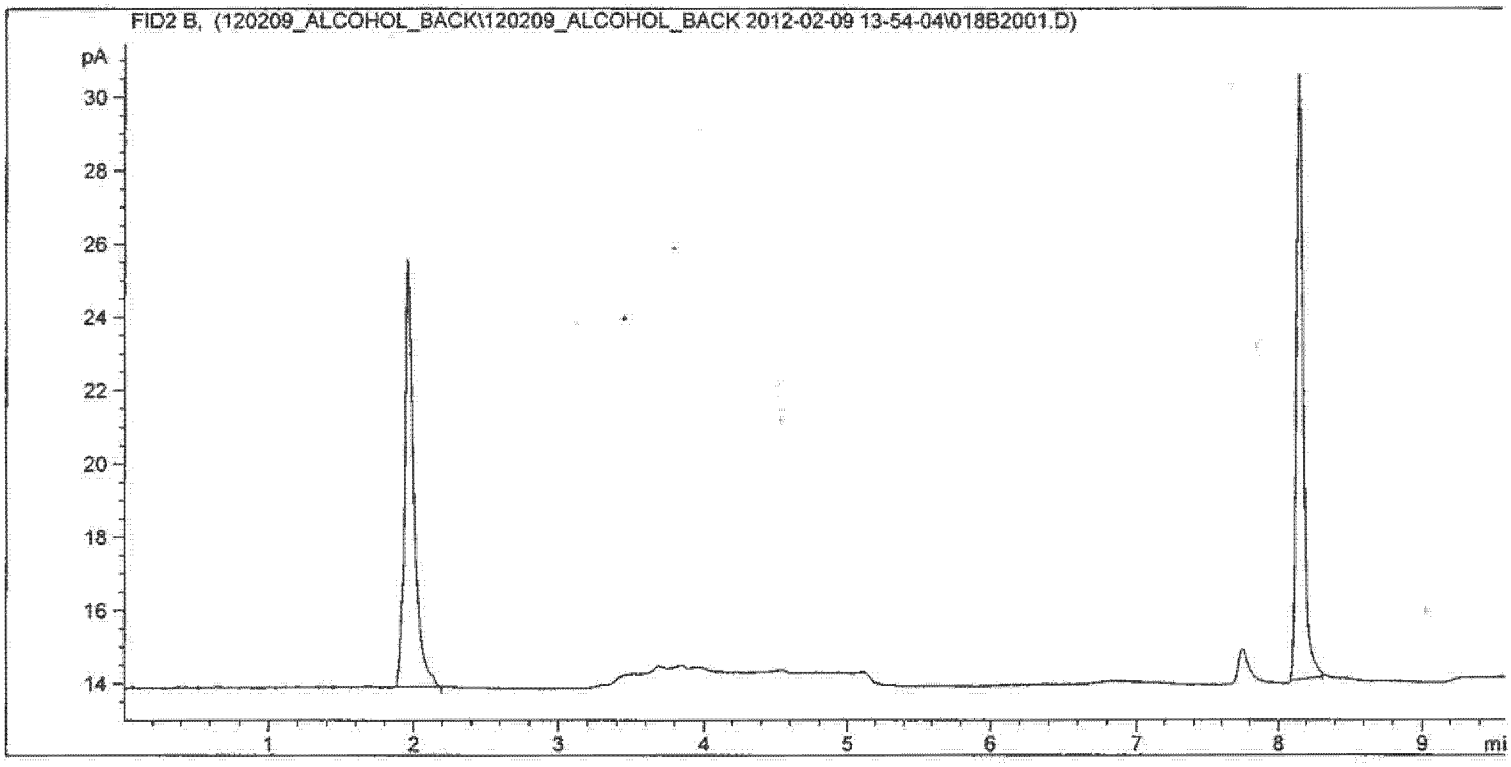
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 6:17:56 PM

Seq. Line : 20
Location : Vial 18
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

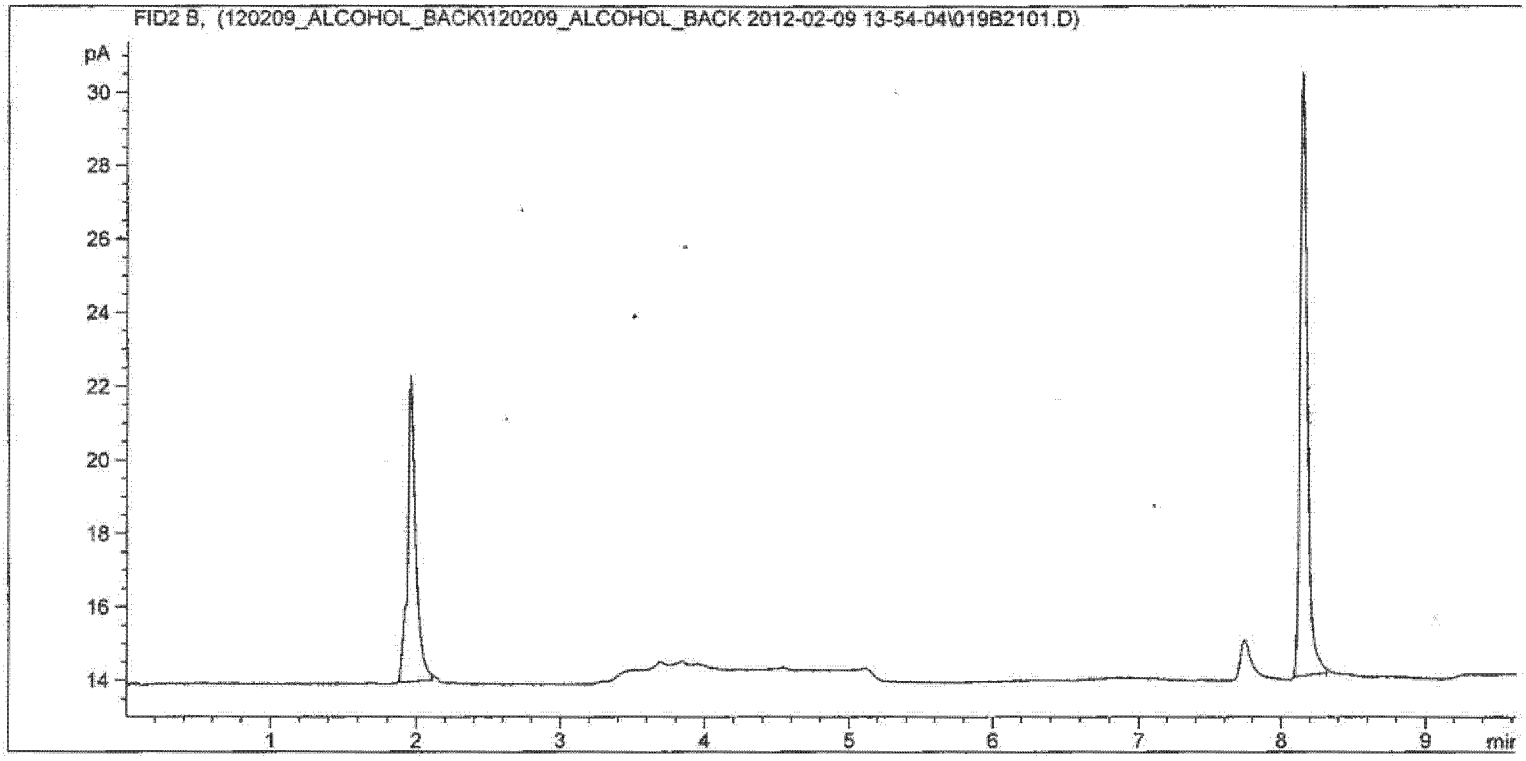
Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Acq. Operator	: ACM	Seq. Line	: 21
Acq. Instrument	: AG3-6890N	Location	: Vial 19
Injection Date	: 2/9/2012 6:31:39 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

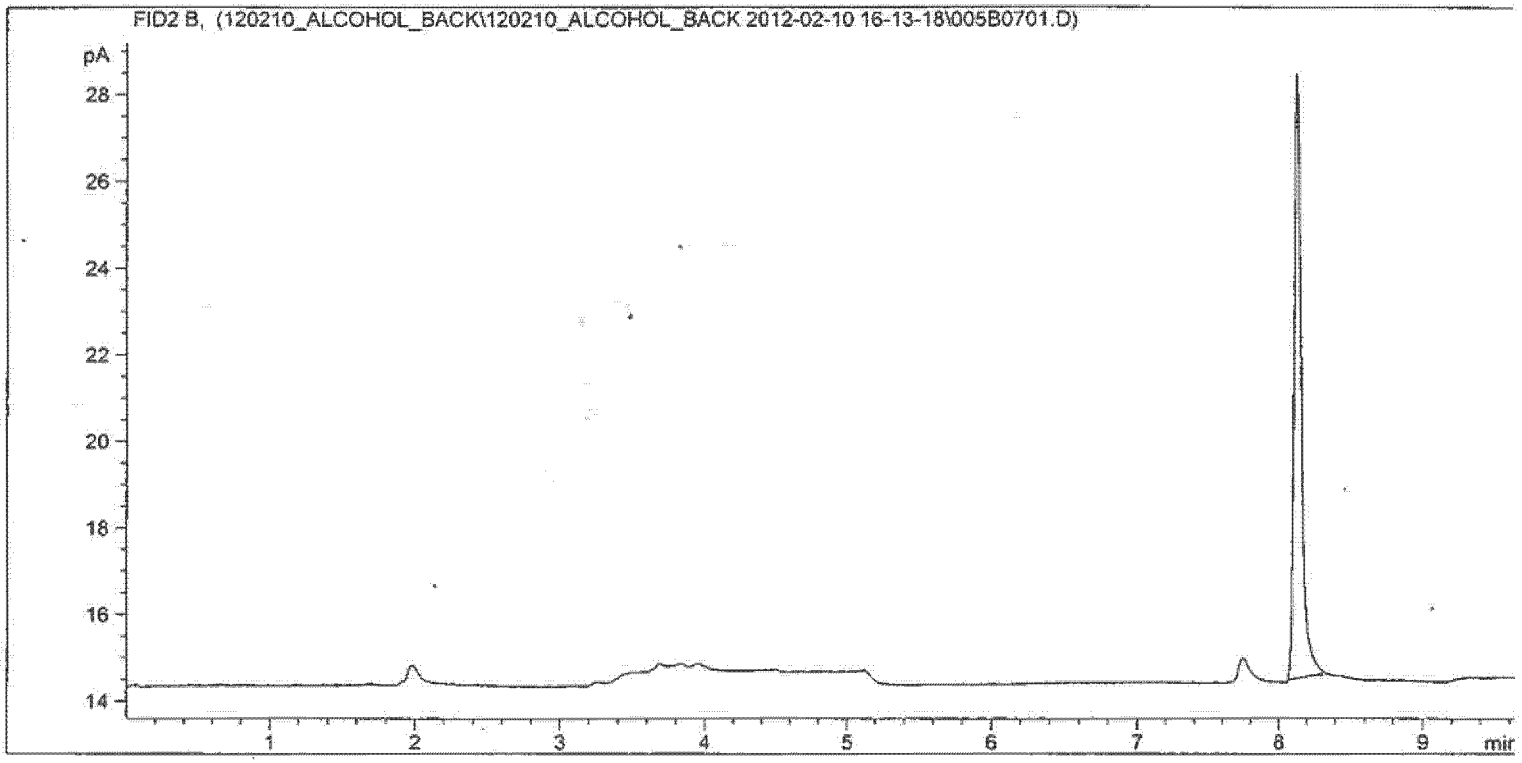
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\005B0701.D
Sample Name: 1202003-32

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/10/2012 5:38:28 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

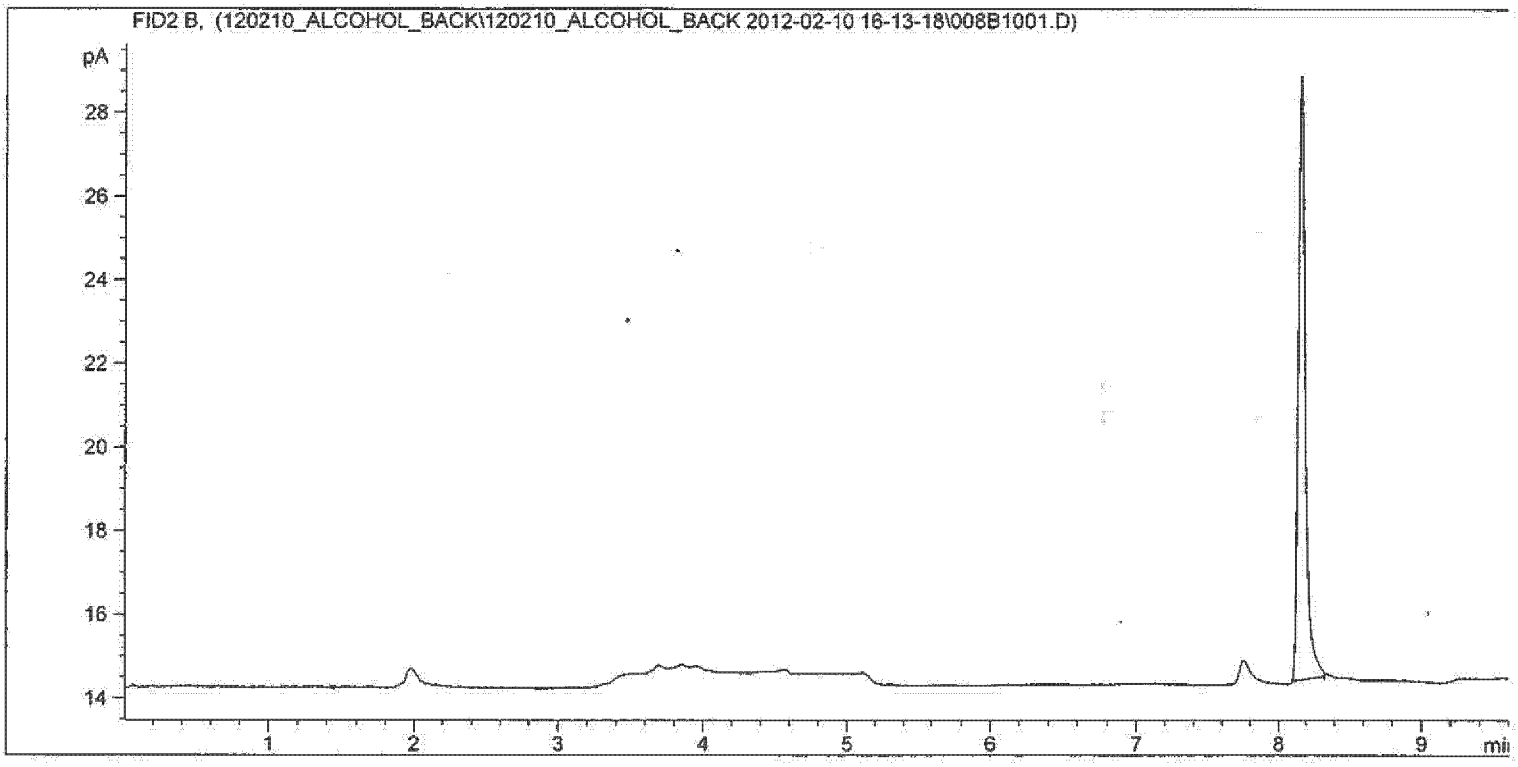
Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\008B1001.D
Sample Name: 1202003-33

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 6:19:39 PM

Seq. Line : 10
Location : Vial 8
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

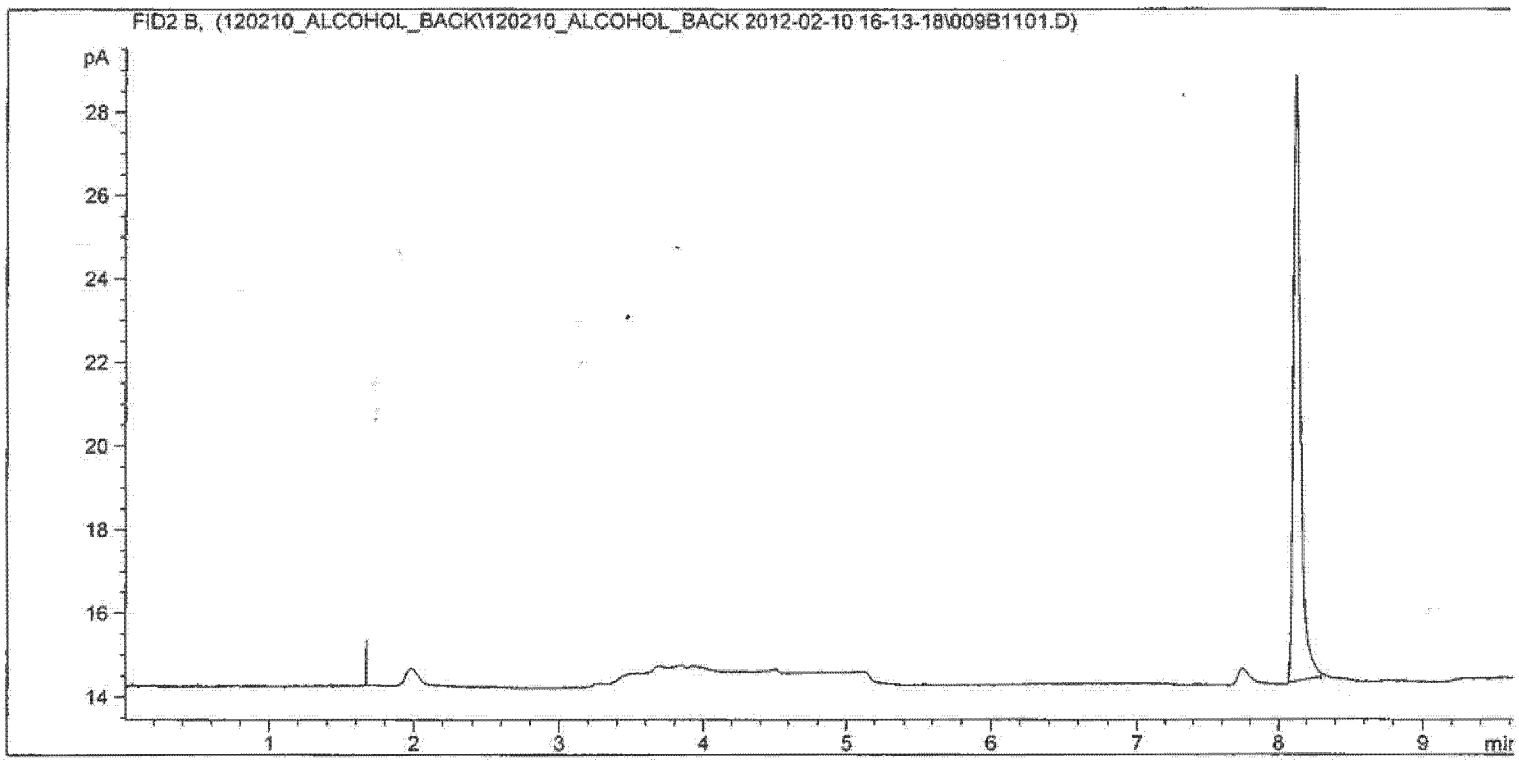
Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\009B1101.D
Sample Name: 1202003-34

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 6:33:21 PM

Seq. Line : 11
Location : Vial 9
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

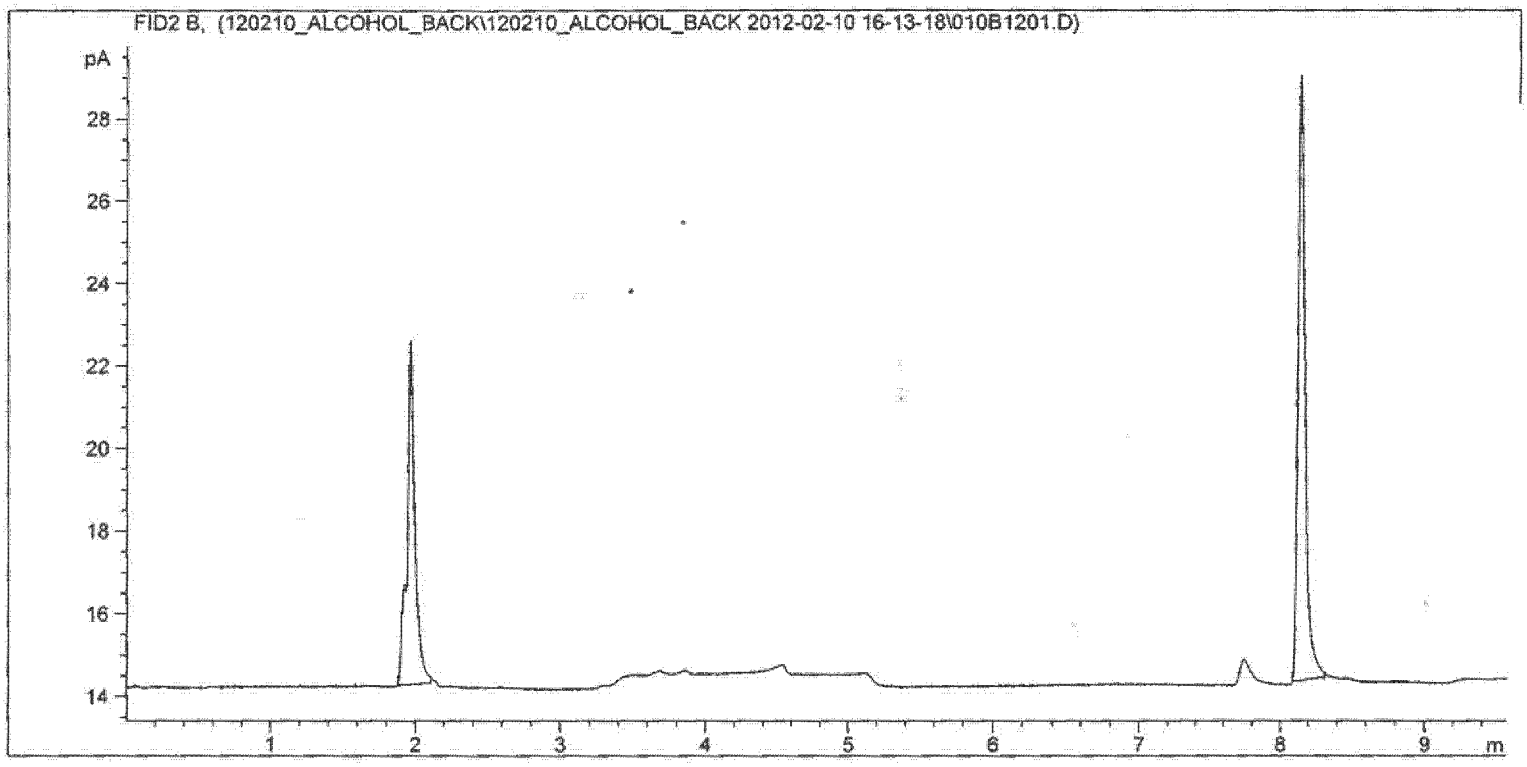
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

ıta File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\010B1201.D
ımple Name: 1202003-35

Acq. Operator	: ACM	Seq. Line :	12
Acq. Instrument	: AG3-6890N	Location :	Vial 10
Injection Date	: 2/10/2012 6:47:05 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

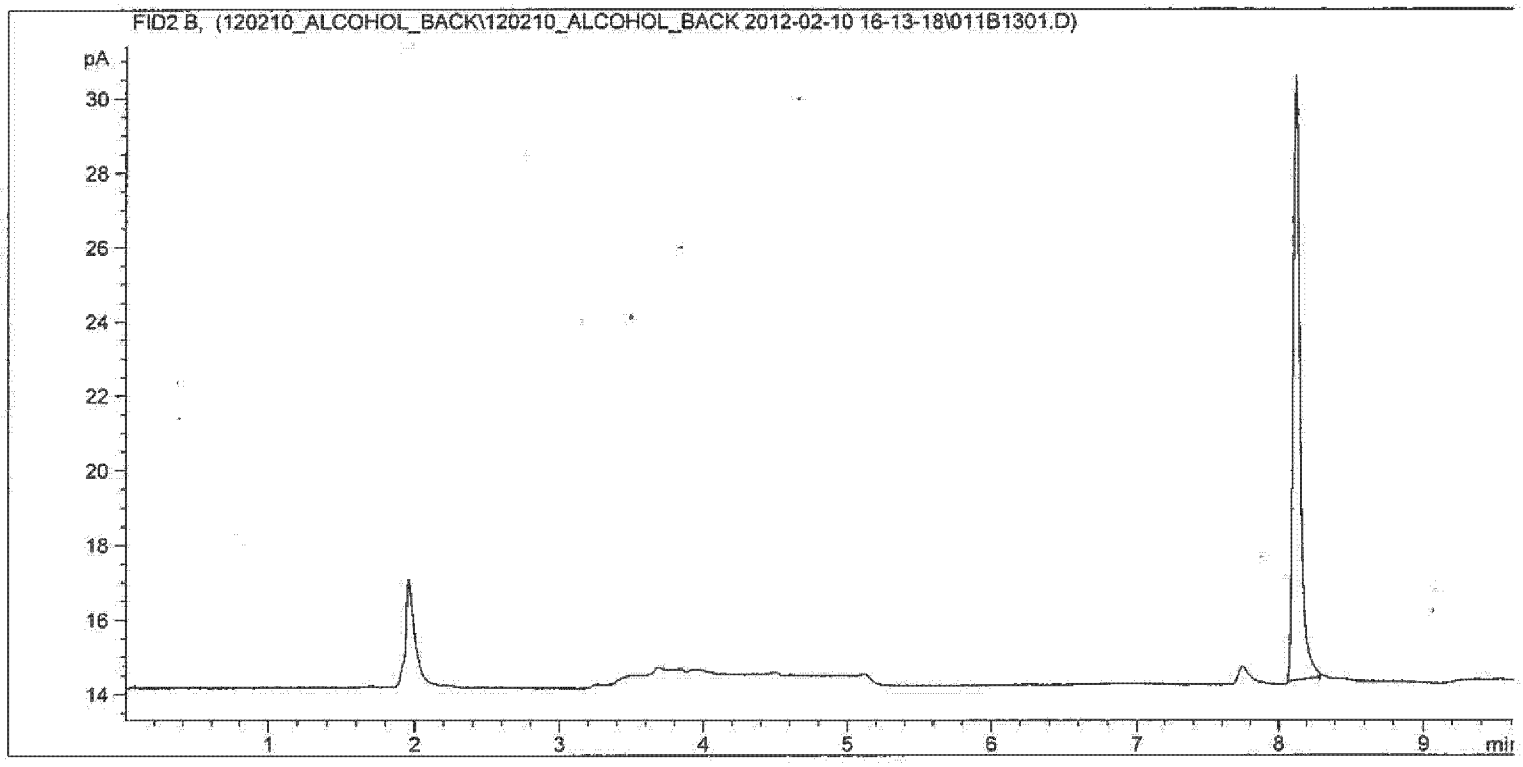
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\011B1301.D
Sample Name: 1202003-36

Acq. Operator	: ACM	Seq. Line :	13
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 2/10/2012 7:00:48 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

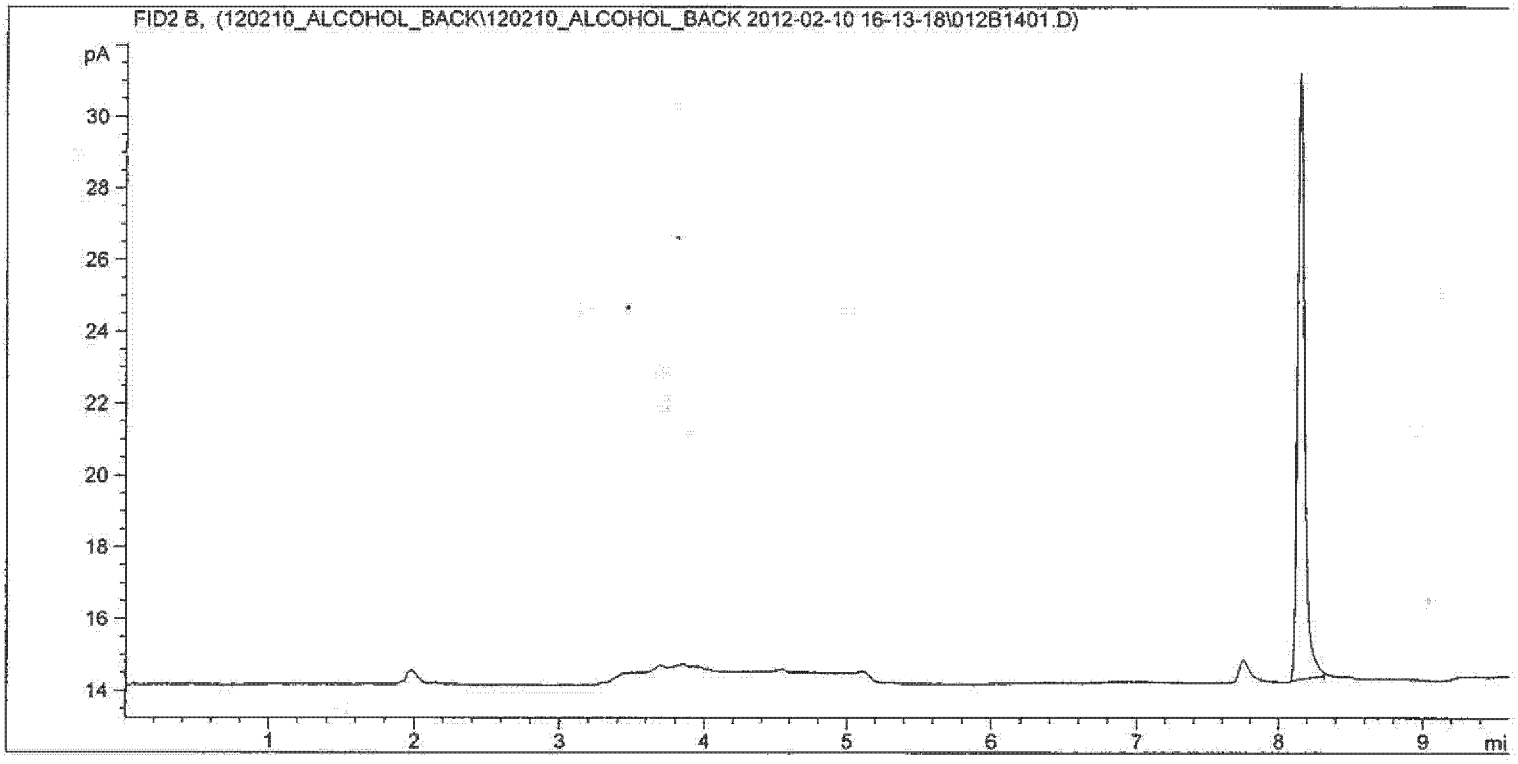
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\012B1401.D
Sample Name: 1202003-37

==========

Acq. Operator : ACM
Seq. Line : 14
Acq. Instrument : AG3-6890N
Location : Vial 12
Injection Date : 2/10/2012 7:14:32 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

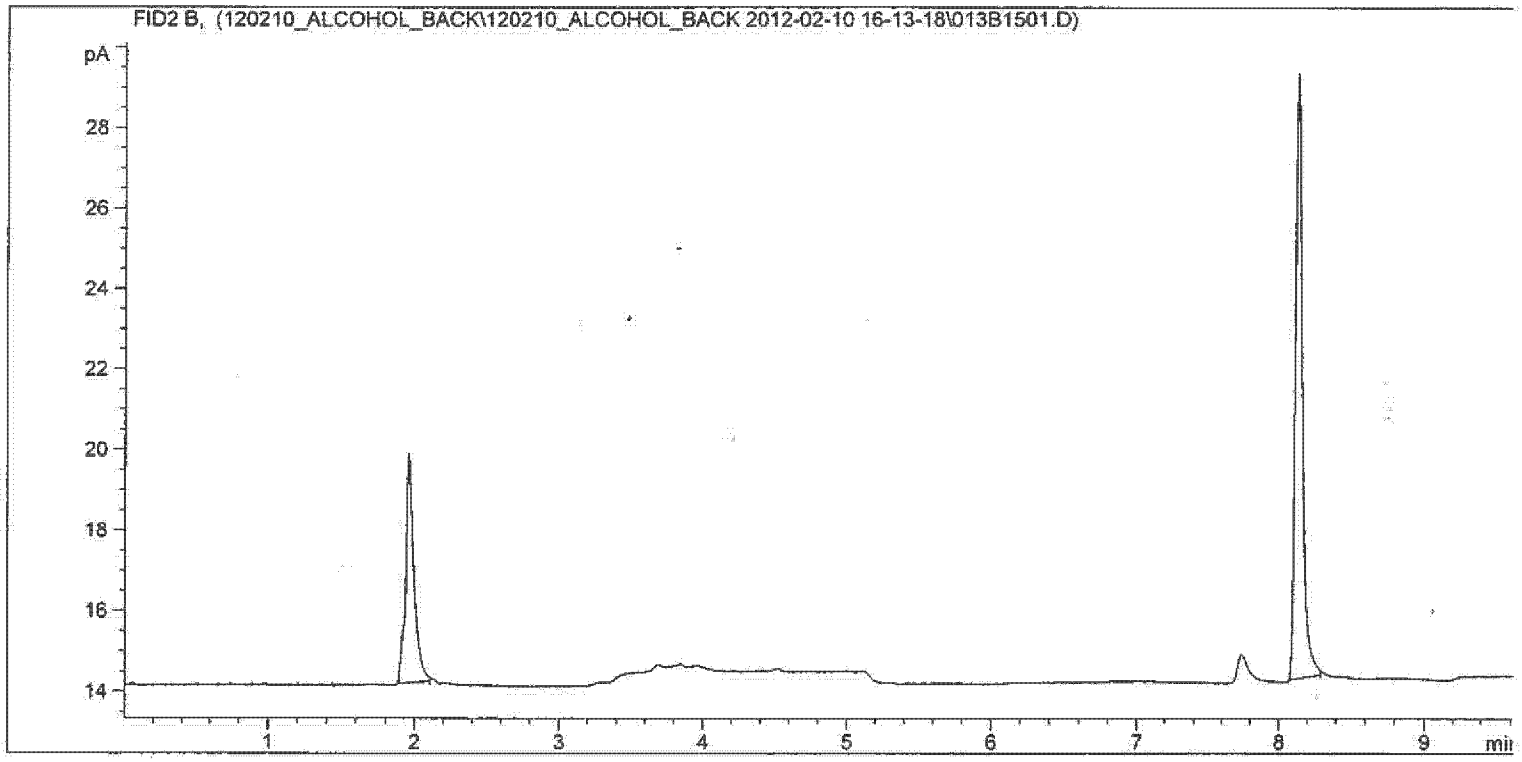
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\013B1501.D
Sample Name: 1202003-38

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 13
Injection Date	: 2/10/2012 7:28:15 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

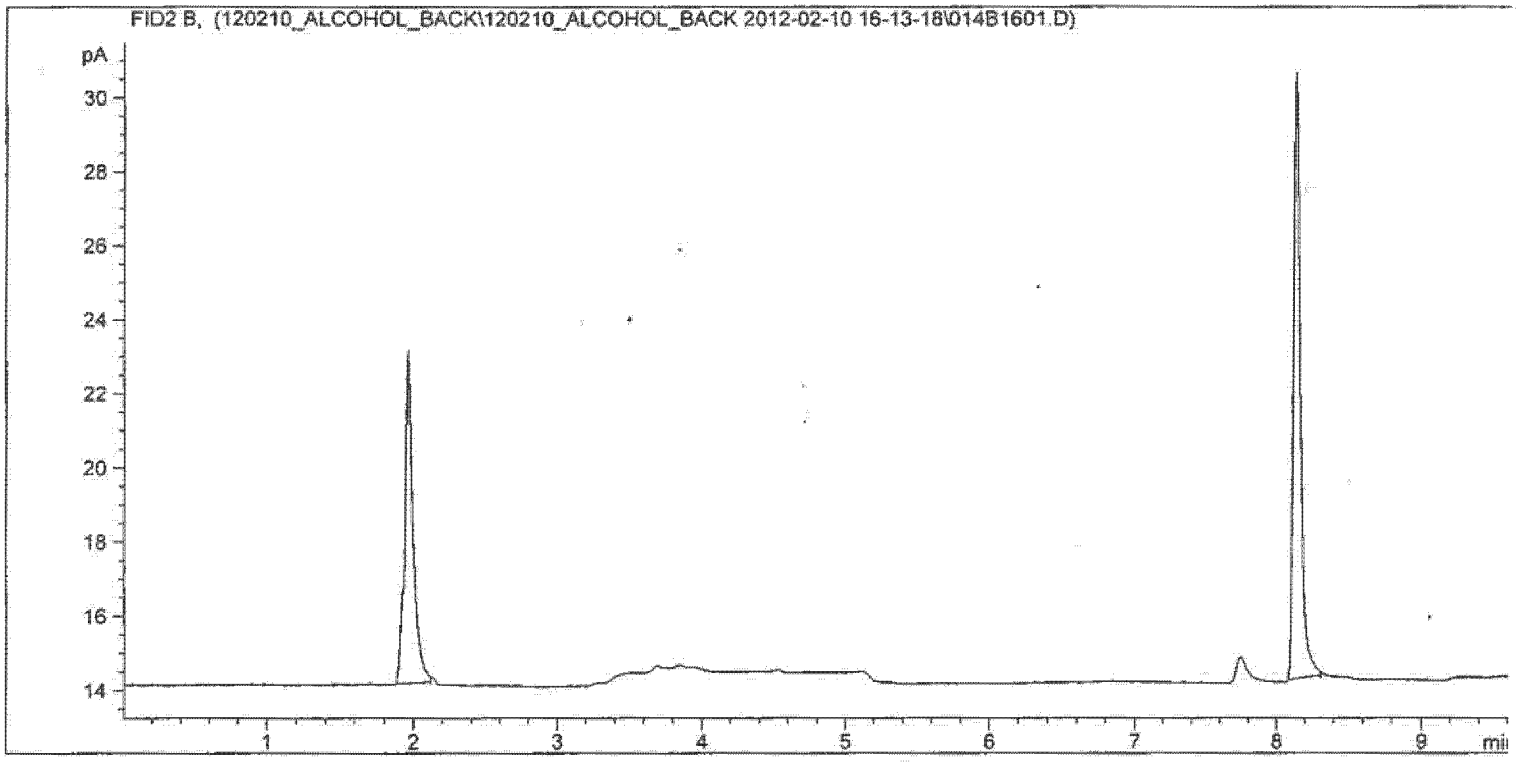
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

ata File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\014B1601.D
ample Name: 1202003-39

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 7:42:00 PM
Seq. Line : 16
Location : Vial 14
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aem

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202003

Dimock Residential Groundwater

DAS R33907

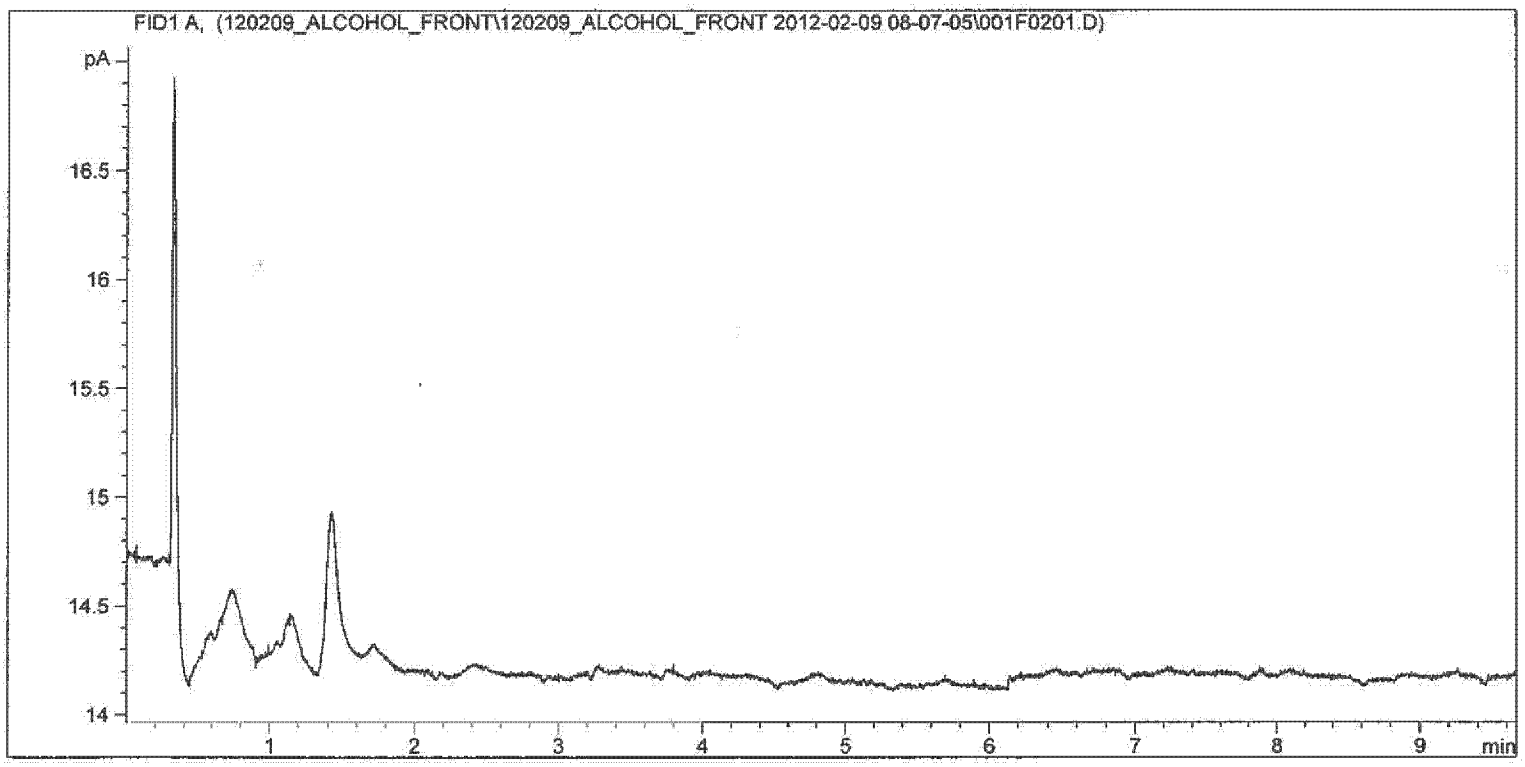
Quality Control Data

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\001F0201.D
Sample Name: IBL1

==========

Acq. Operator : ACM
Seq. Line : 2
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/9/2012 8:23:50 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

pass

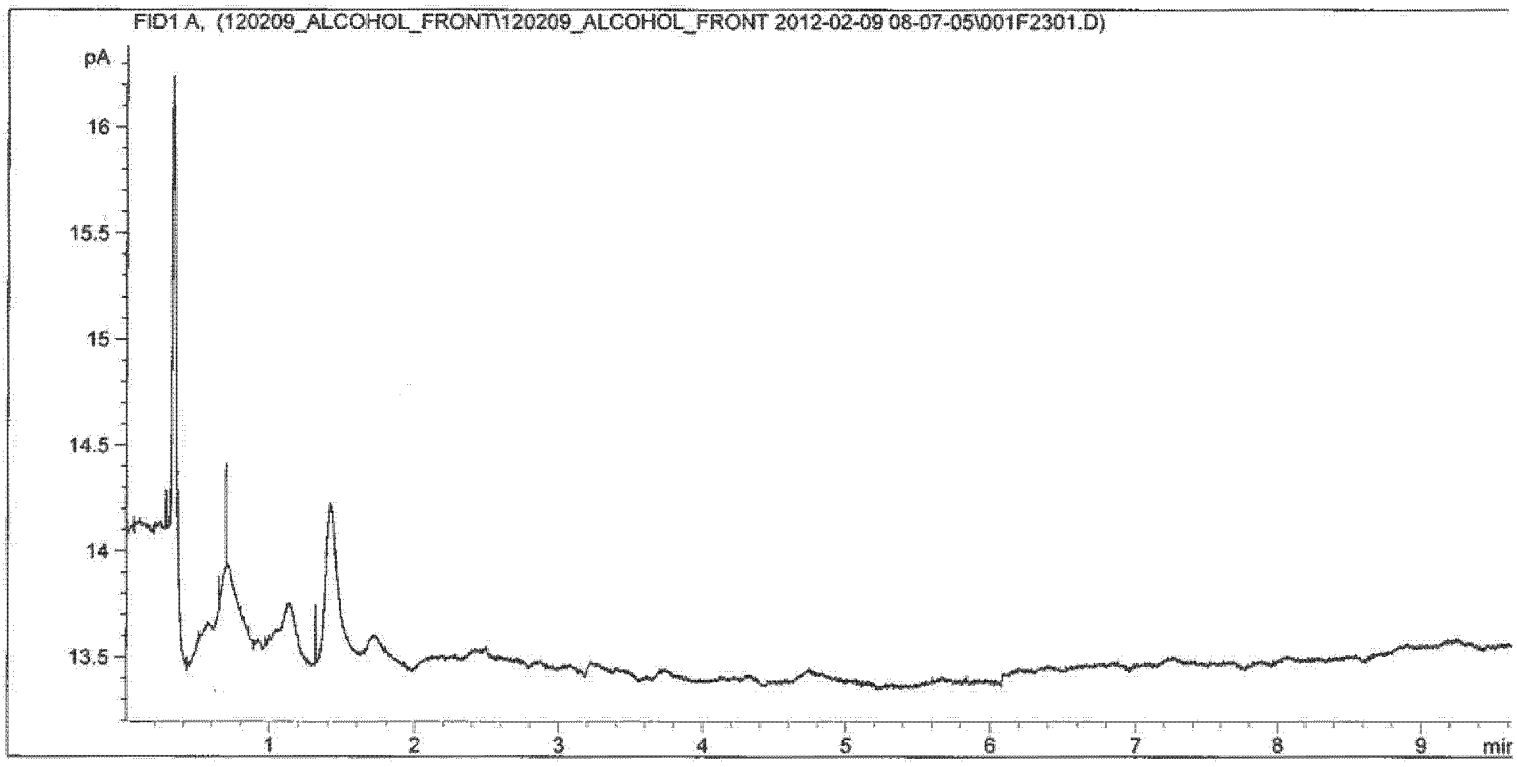
Am

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\001F2301.D
Sample Name: IBL2

Acq. Operator	: ACM	Seq. Line :	23
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 2/9/2012 1:14:06 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\001F2301.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

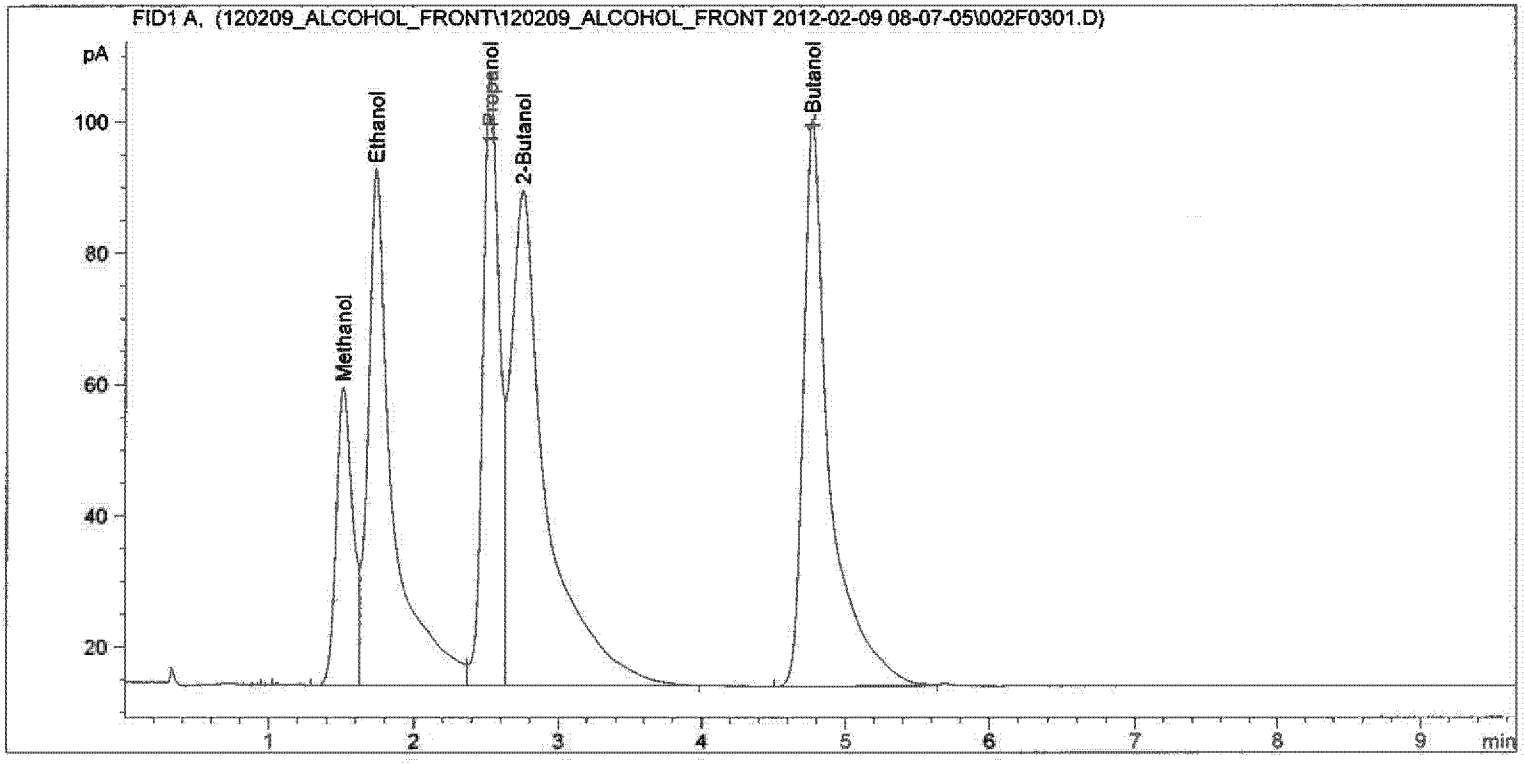
*** End of Report ***

pass

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\002F0301.D
Sample Name: CCV1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/9/2012 8:37:39 AM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.514	VV	359.94904	2.71898e-1	97.86945		Methanol	2.13
1.740	VV	929.38495	1.07654e-1	100.05215		Ethanol	0.0521
2.525	VV	743.08191	1.23790e-1	91.98643		1-Propanol	8.01

pass

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\002F0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.755	VB	1307.18628	8.04142e-2	105.11629		2-Butanol	5.12
4.770	BV	1080.64966	9.25527e-2	100.01700		1-Butanol	0.0170 > poss

Totals : 495.04132

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*** End of Report ***

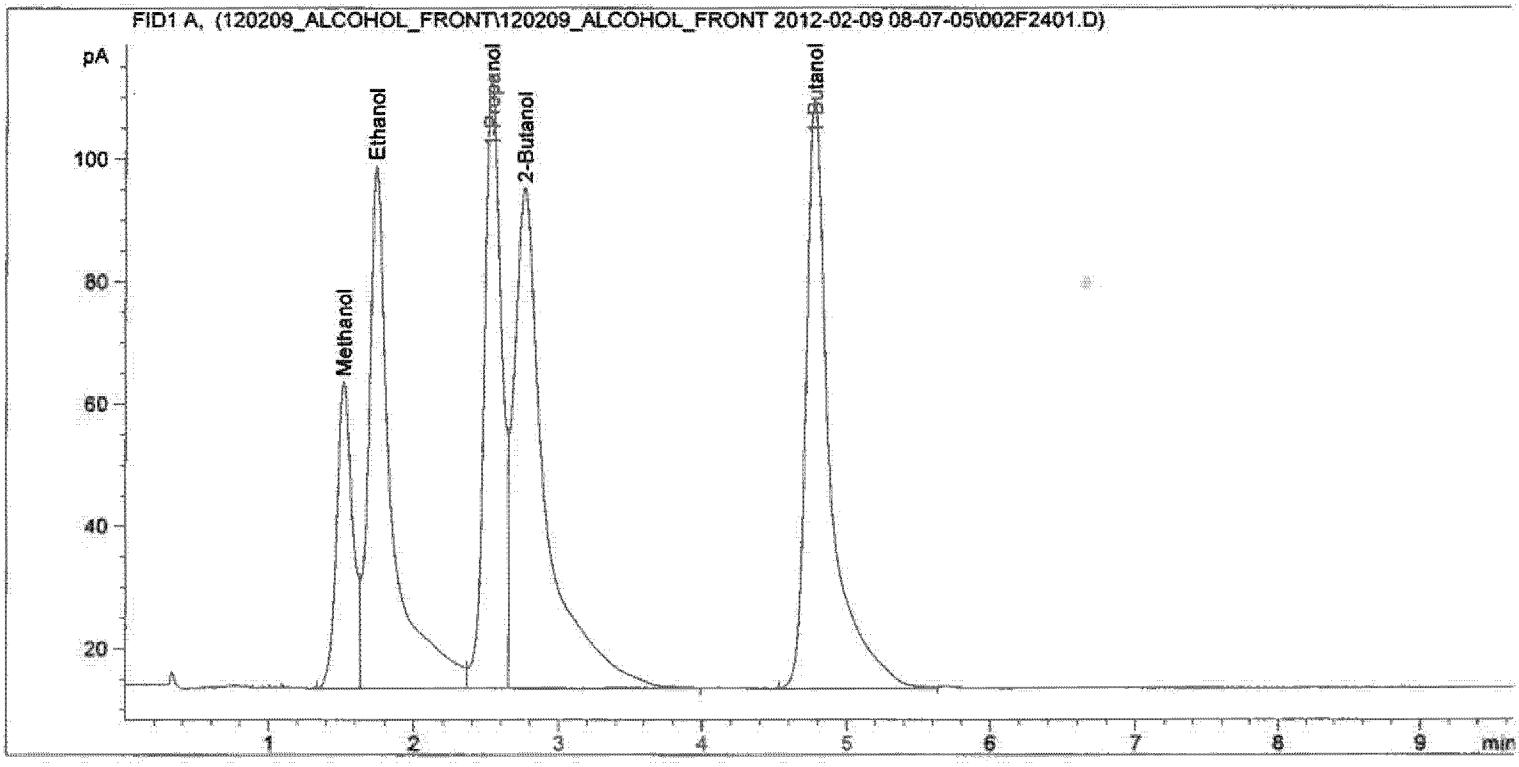
All poss

Am

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\002F2401.D
Sample Name: CCV2

Acq. Operator	: ACM	Seq. Line :	24
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/9/2012 1:27:56 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.520	BV	382.10812	2.71559e-1	103.76490		Methanol	3.76
1.745	VV	931.82593	1.07658e-1	100.31828		Ethanol	0.318
2.534	VV	833.13324	1.23215e-1	102.65467		1-Propanol	2.05

> Pass

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\002F2401.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.766	VB	1253.68005	8.04007e-2	100.79671		2-Butanol	0.797
4.779	BB	1101.31299	9.25412e-2	101.91688		1-Butanol	1.92

> poss

Totals : 509.45144

*** End of Report ***

all poss

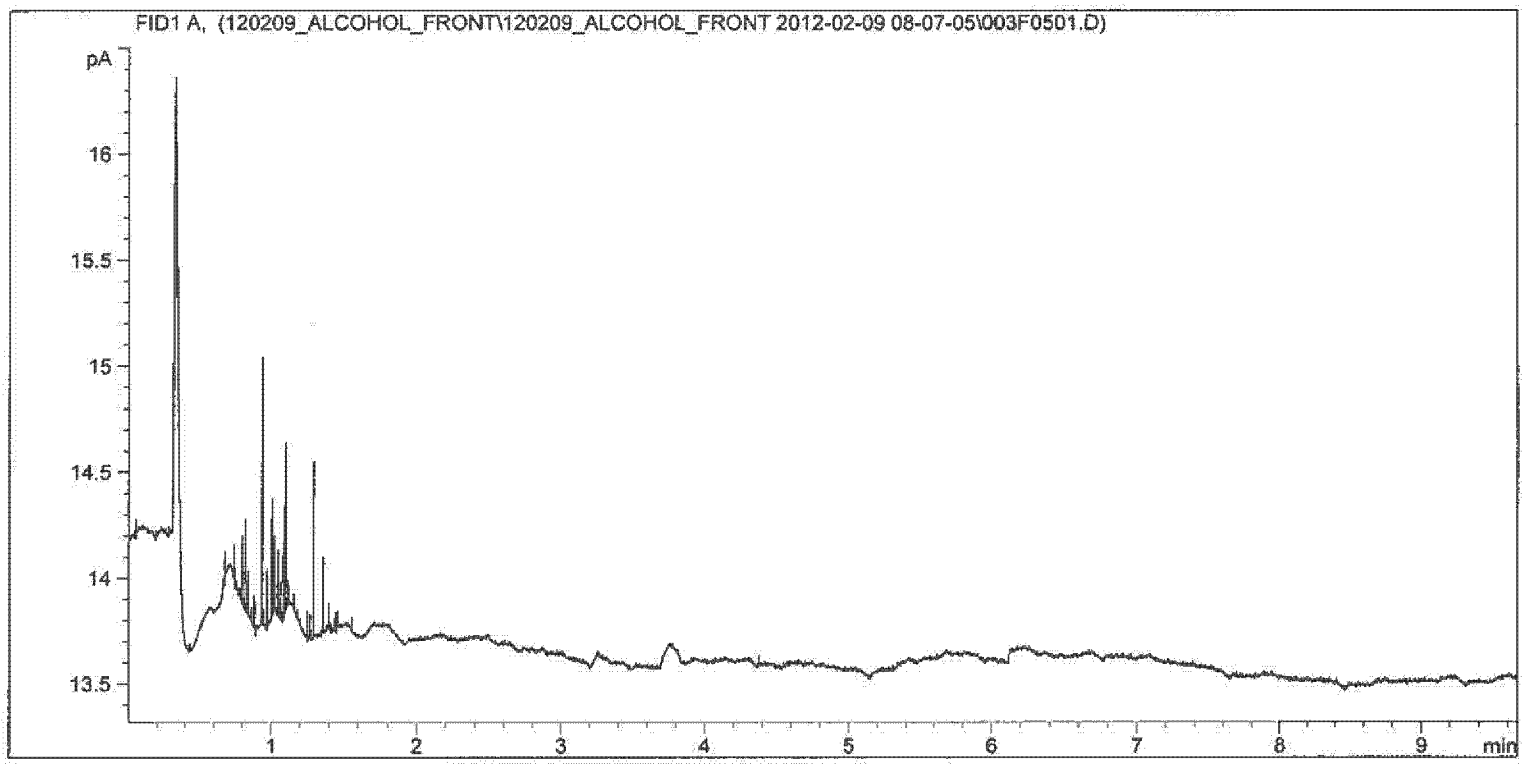
Am

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\003F0501.D
Sample Name: BB20901-BLK1

==========

Acq. Operator : ACM
Seq. Line : 5
Acq. Instrument : AG3-6890N
Location : Vial 3
Injection Date : 2/9/2012 9:05:17 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\003F0501.D
Sample Name: BB20901-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

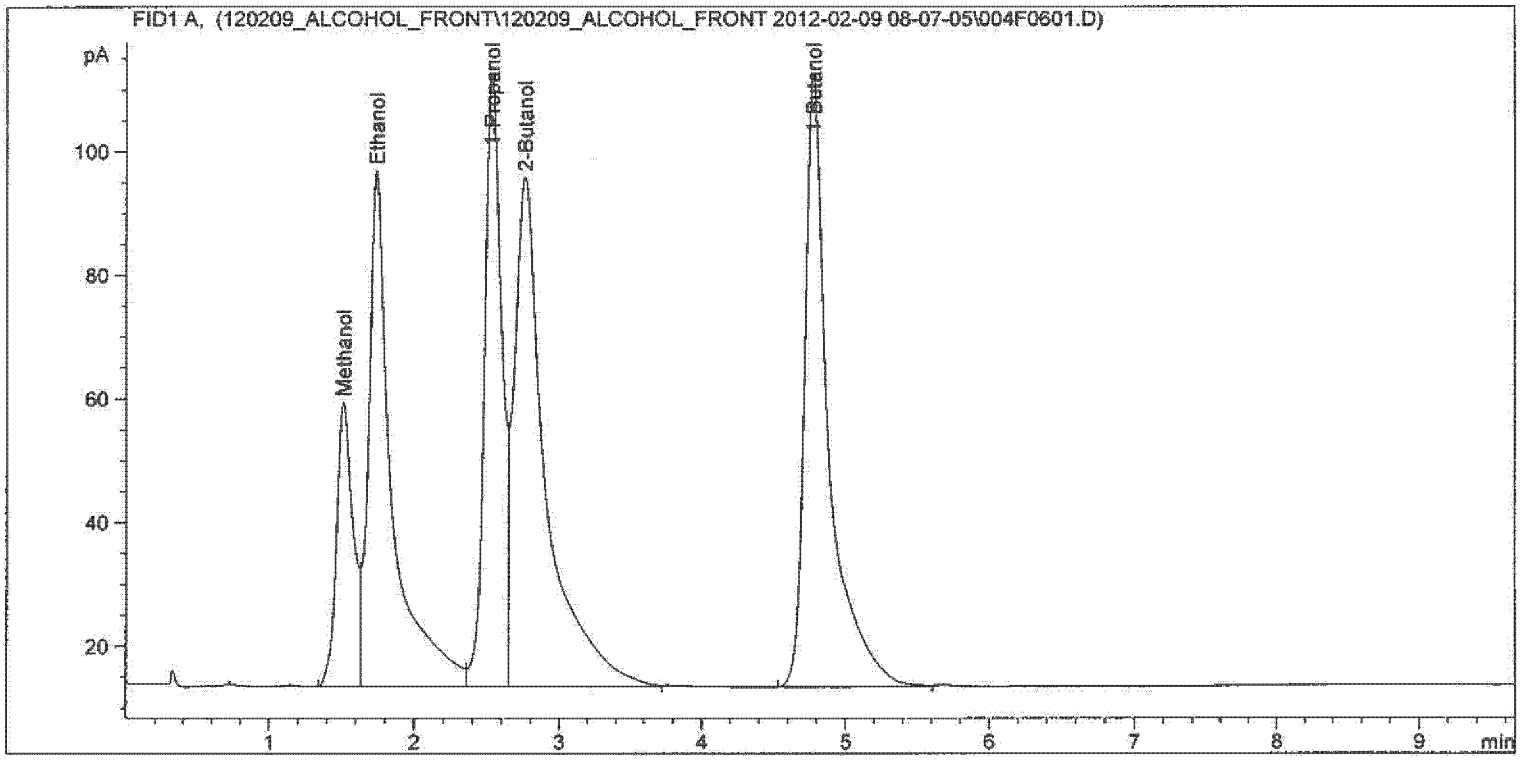
Pass

ACM

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\004F0601.D
Sample Name: BB20901-BS1

==========

Acq. Operator : ACM
Seq. Line : 6
Acq. Instrument : AG3-6890N
Location : Vial 4
Injection Date : 2/9/2012 9:19:07 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.516	BV	363.47394	2.71841e-1	98.80726		Methanol	98.8
1.741	VV	941.45825	1.07672e-1	101.36846		Ethanol	101.4
2.532	VV	824.35522	1.23266e-1	101.61475		1-Propanol	101.6
2.764	VV	1275.02625	8.04062e-2	102.52000		2-Butanol	102.5
4.777	BB	1150.58826	9.25157e-2	106.44746		1-Butanol	106.4

Pass

Totals : 510.75792

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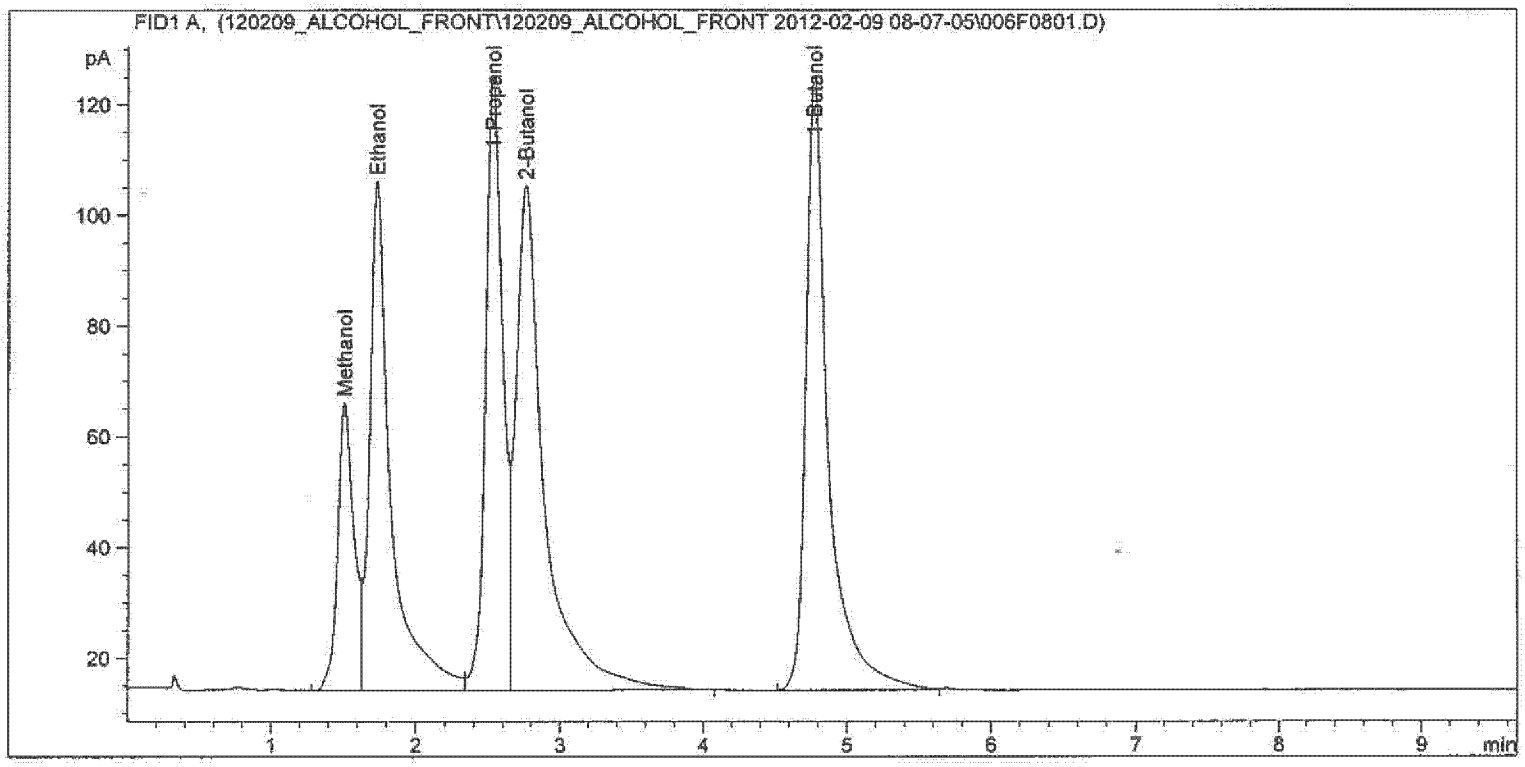
*** End of Report ***

All pass

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\006F0801.D
Sample Name: BB20901-MS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 9:46:46 AM
Seq. Line : 8
Location : Vial 6
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% Rec
1.513	VV	409.21237	2.71194e-1	110.97600		Methanol	111.0
1.738	VV	925.21973	1.07648e-1	99.59803		Ethanol	99.6
2.532	VV	909.11798	1.22818e-1	111.65647		1-Propanol	111.7
2.765	VB	1263.16113	8.04031e-2	101.56212		2-Butanol	101.6
4.778	BB	1185.12708	9.24990e-2	109.62310		1-Butanol	109.6

pass

Totals : 533.41572

==========

*** End of Report ***

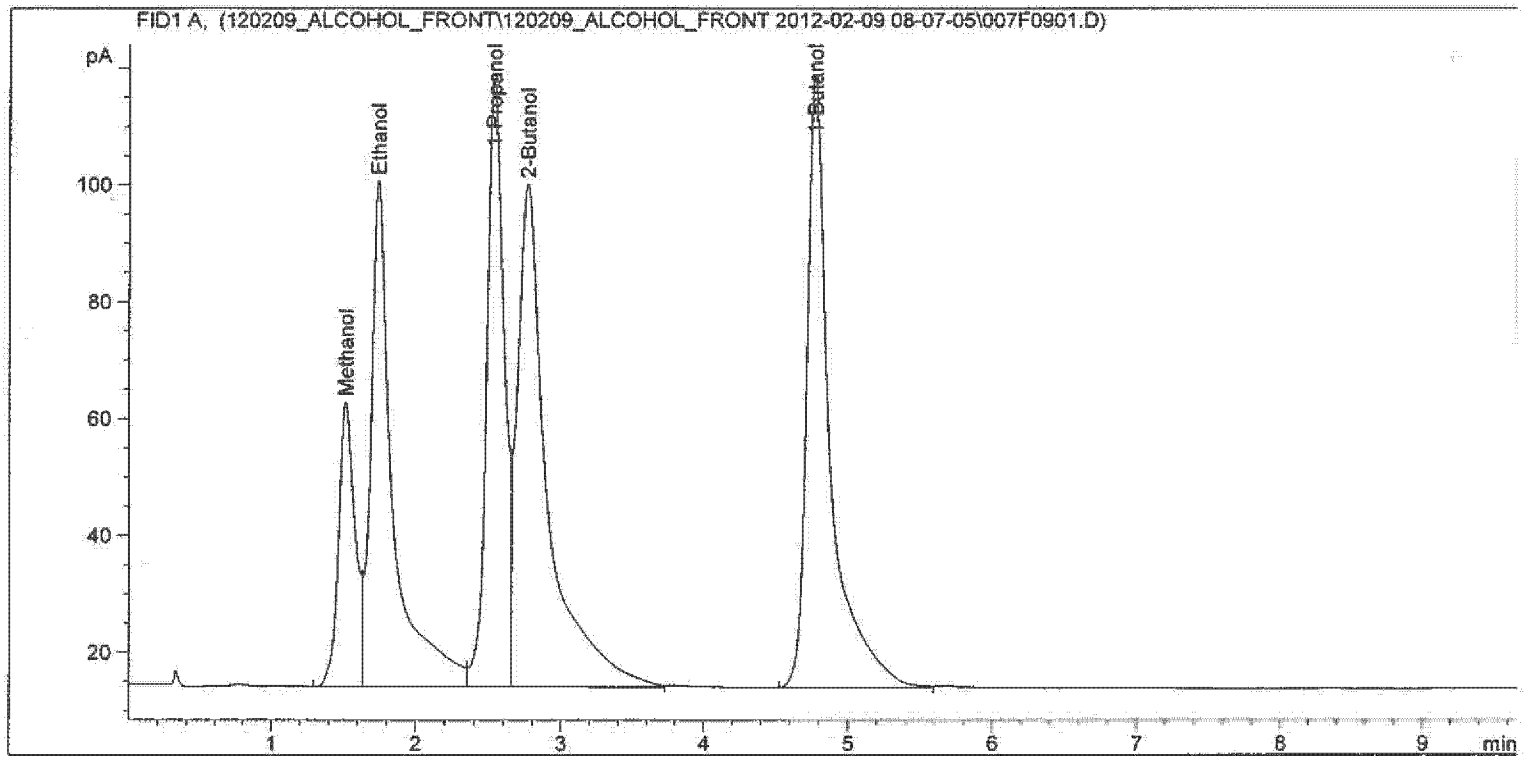
all pass

ACM

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\007F0901.D
Sample Name: BB20901-MSD1

==========

Acq. Operator : ACM
Seq. Line : 9
Acq. Instrument : AG3-6890N
Location : Vial 7
Injection Date : 2/9/2012 10:00:37 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.518	VV	385.30777	2.71513e-1	104.61617		Methanol	104.6
1.743	VV	932.22754	1.07658e-1	100.36207		Ethanol	100.4
2.535	VV	870.55334	1.23011e-1	107.08777		1-Propanol	107.1
2.769	VV	1265.80322	8.04038e-2	101.77542		2-Butanol	101.8
4.778	BV	1165.74524	9.25083e-2	107.84105		1-Butanol	107.8

pass

Totals : 521.68248

*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|111.0 - 104.6|}{Avg(111, 104.6)}\right] 100 = \left[\frac{6.4}{107.8}\right] 100 = \underline{5.94\%}$$

$$EtOH = \left[\frac{|100.4 - 99.6|}{Avg(100.4, 99.6)}\right] 100 = \left[\frac{0.8}{100}\right] 100 = \underline{0.800\%}$$

$$1\text{-Propanol} = \left[\frac{|111.7 - 107.1|}{Avg(111.7, 107.1)}\right] 100 = \left[\frac{4.6}{109.4}\right] 100 = \underline{4.20\%}$$

$$2\text{-Butanol} = \left[\frac{|101.8 - 101.6|}{Avg(101.8, 101.6)}\right] 100 = \left[\frac{0.2}{101.7}\right] 100 = \underline{0.197\%}$$

$$1\text{-Butanol} = \left[\frac{|109.6 - 107.8|}{Avg(109.6, 107.8)}\right] 100 = \left[\frac{1.8}{108.7}\right] 100 = \underline{1.66\%}$$

All pass

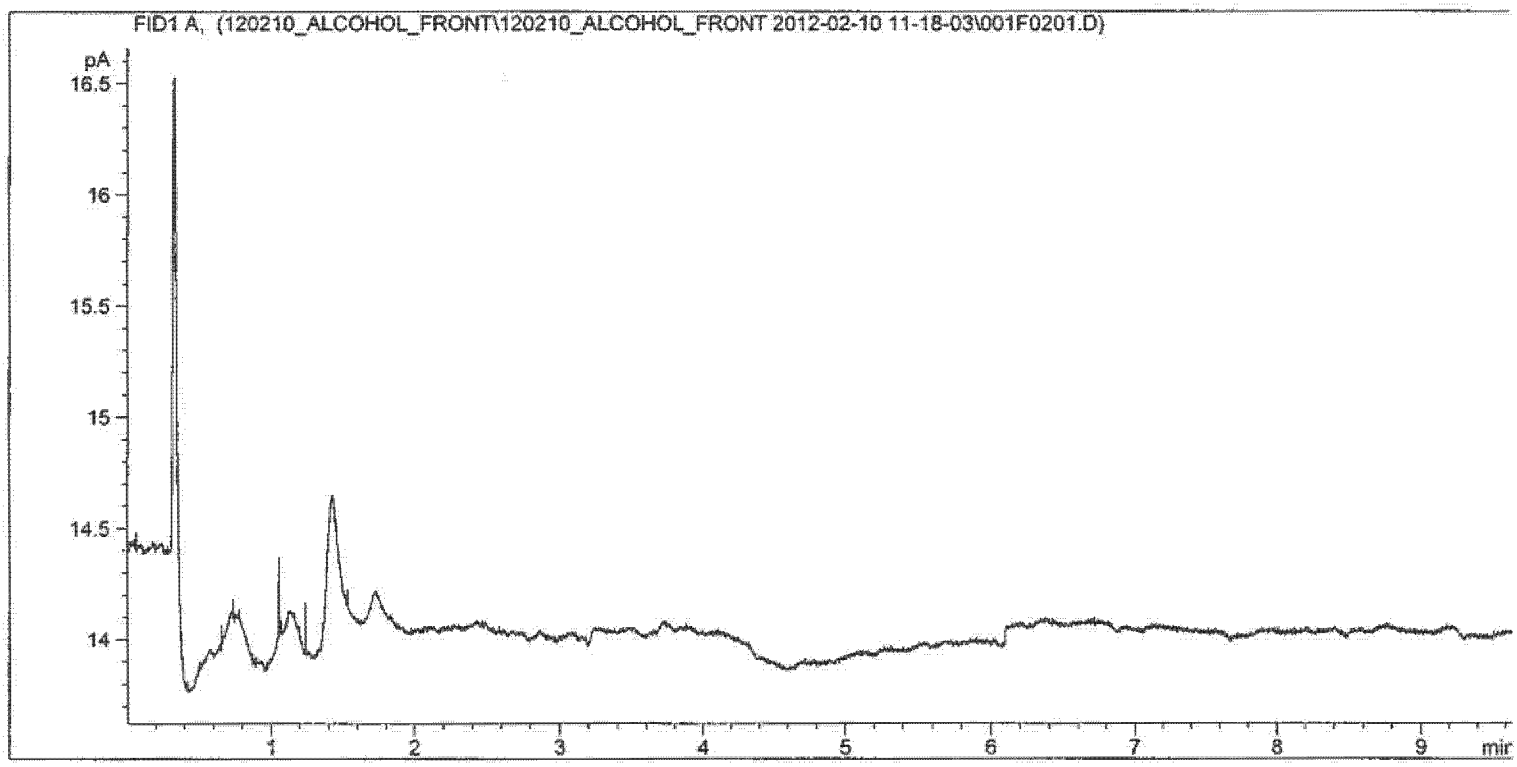
Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\001F0201.D
Sample Name: IBL1

Acq. Operator	: ACM	Seq. Line :	2
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 2/10/2012 11:34:42 AM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
*** End of Report ***

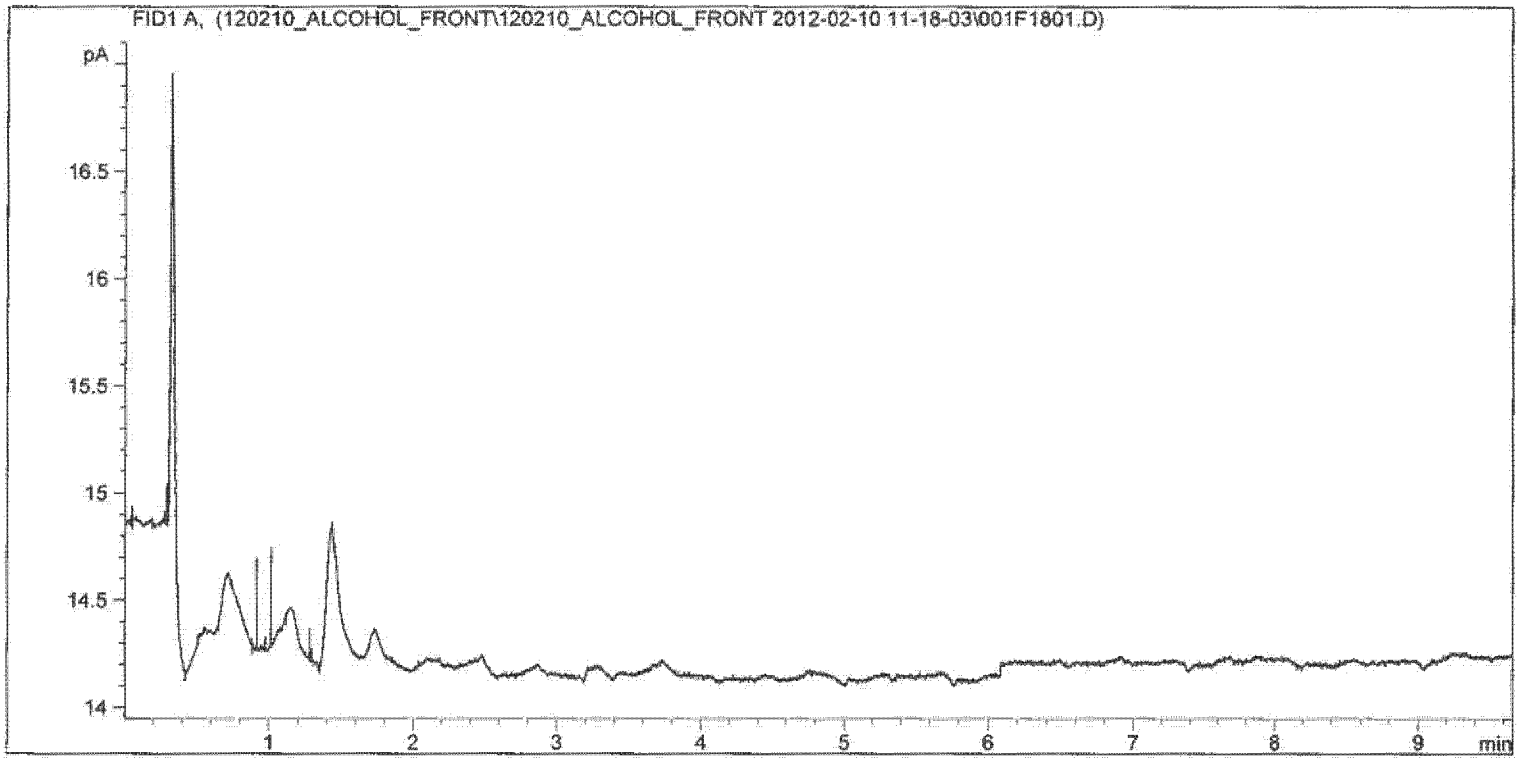
pass

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\001F1801.D
Sample Name: IBL2

==========

Acq. Operator : ACM
Seq. Line : 18
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/10/2012 3:15:57 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT [illegible]
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

pass

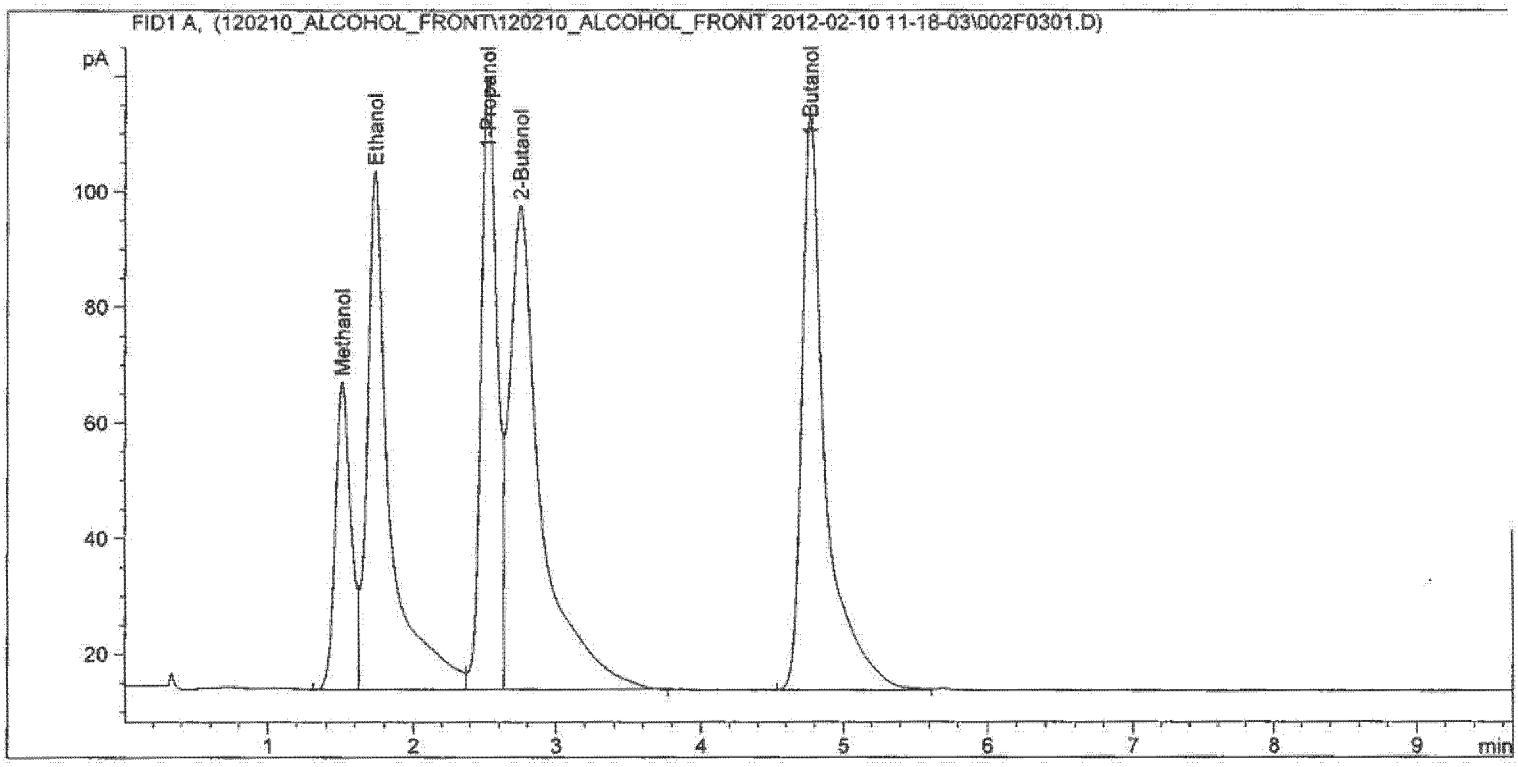
Am

Sample Name: CCV1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/10/2012 11:48:33 AM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.512	VV	396.00568	2.71366e-1	107.46235		Methanol	7.46
1.738	VV	960.15192	1.07698e-1	103.40658		Ethanol	3.41
2.524	VV	827.23267	1.23249e-1	101.95564		1-Propanol	1.96

Pass

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\002F0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.755	VB	1287.66956	8.04094e-2	103.54070		2-Butanol	3.54
4.769	BB	1128.03809	9.25271e-2	104.37410		1-Butanol	4.37

> pass

Totals : 520.73936

*** End of Report ***

all pass

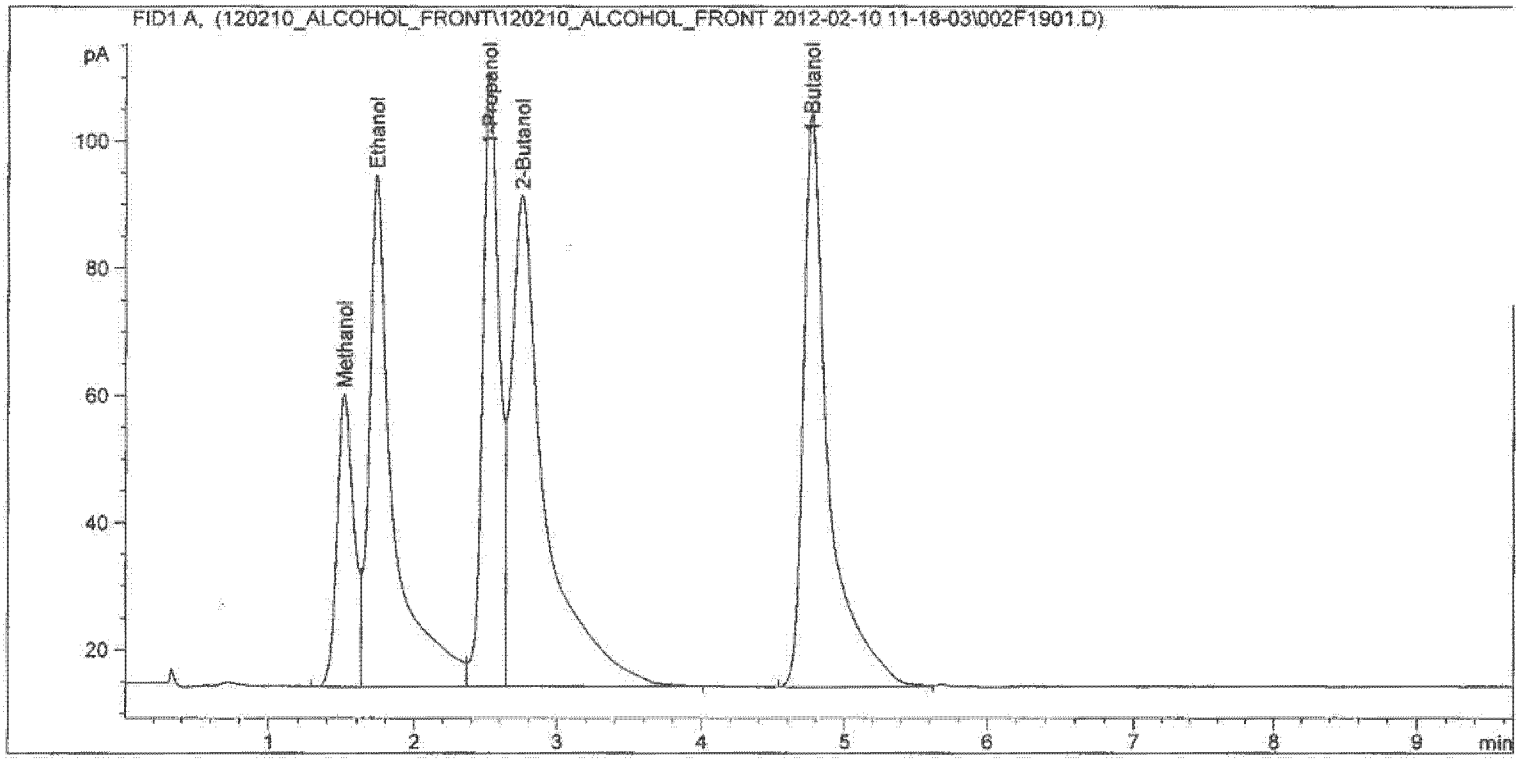
Acm

Sample Name: CCV2

Acq. Operator	: ACM	Seq. Line	: 19
Acq. Instrument	: AG3-6890N	Location	: Vial 2
Injection Date	: 2/10/2012 3:29:47 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Acm

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.513	VV	356.75589	2.71950e-1	97.01991		Methanol	2.98
1.738	VV	930.54309	1.07656e-1	100.17842		Ethanol	0.178
2.527	VV	778.72211	1.23547e-1	96.20867		1-Propanol	3.79

pass

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\002F1901.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.757	VB	1276.10950	8.04065e-2	102.60745		2-Butanol	2.61
4.772	BB	1081.85681	9.25520e-2	100.12800		1-Butanol	0.128

> pass

Totals : 496.14244

*** End of Report ***

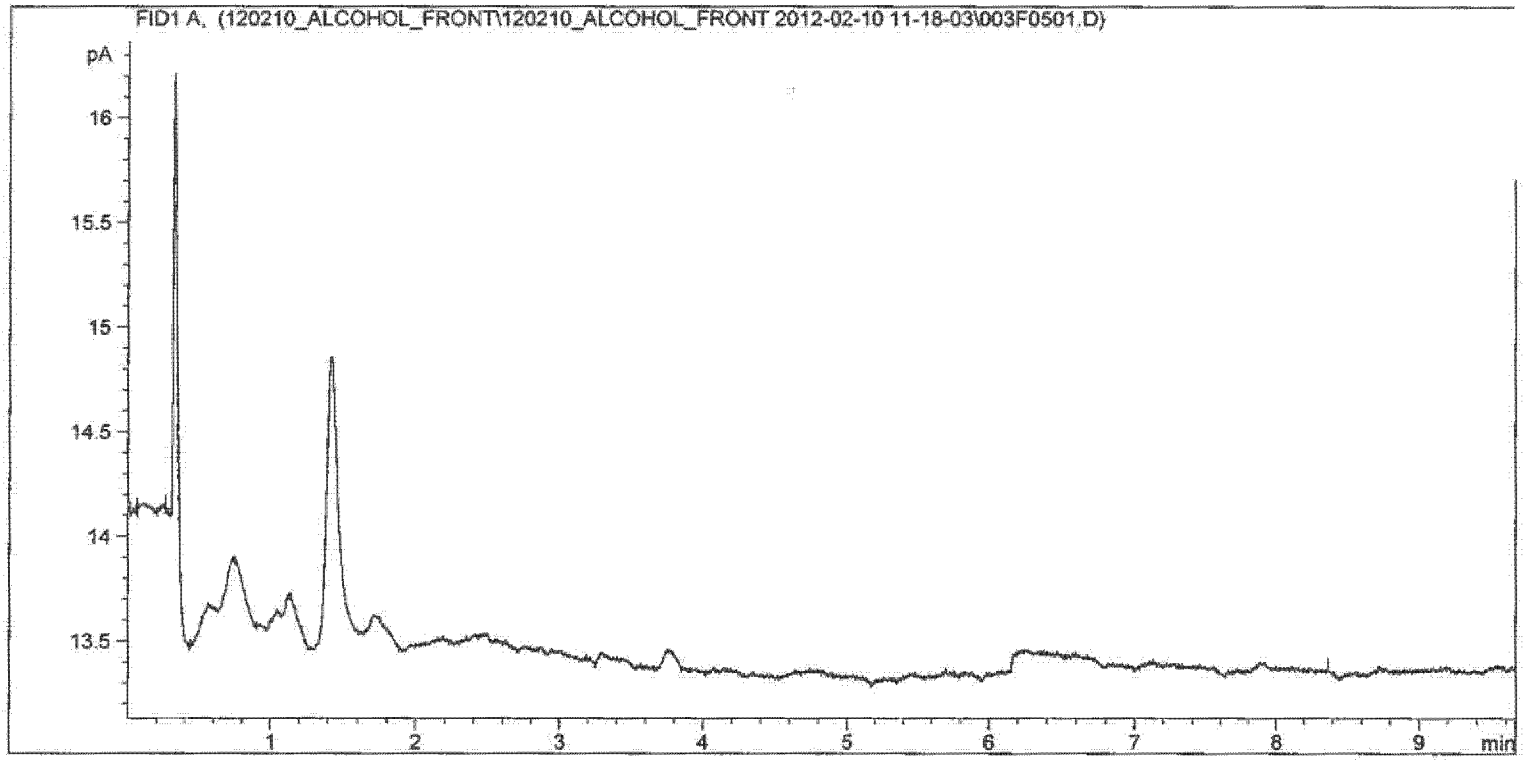
all pass

Am

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 2/10/2012 12:16:10 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Sample Name: BB21002-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

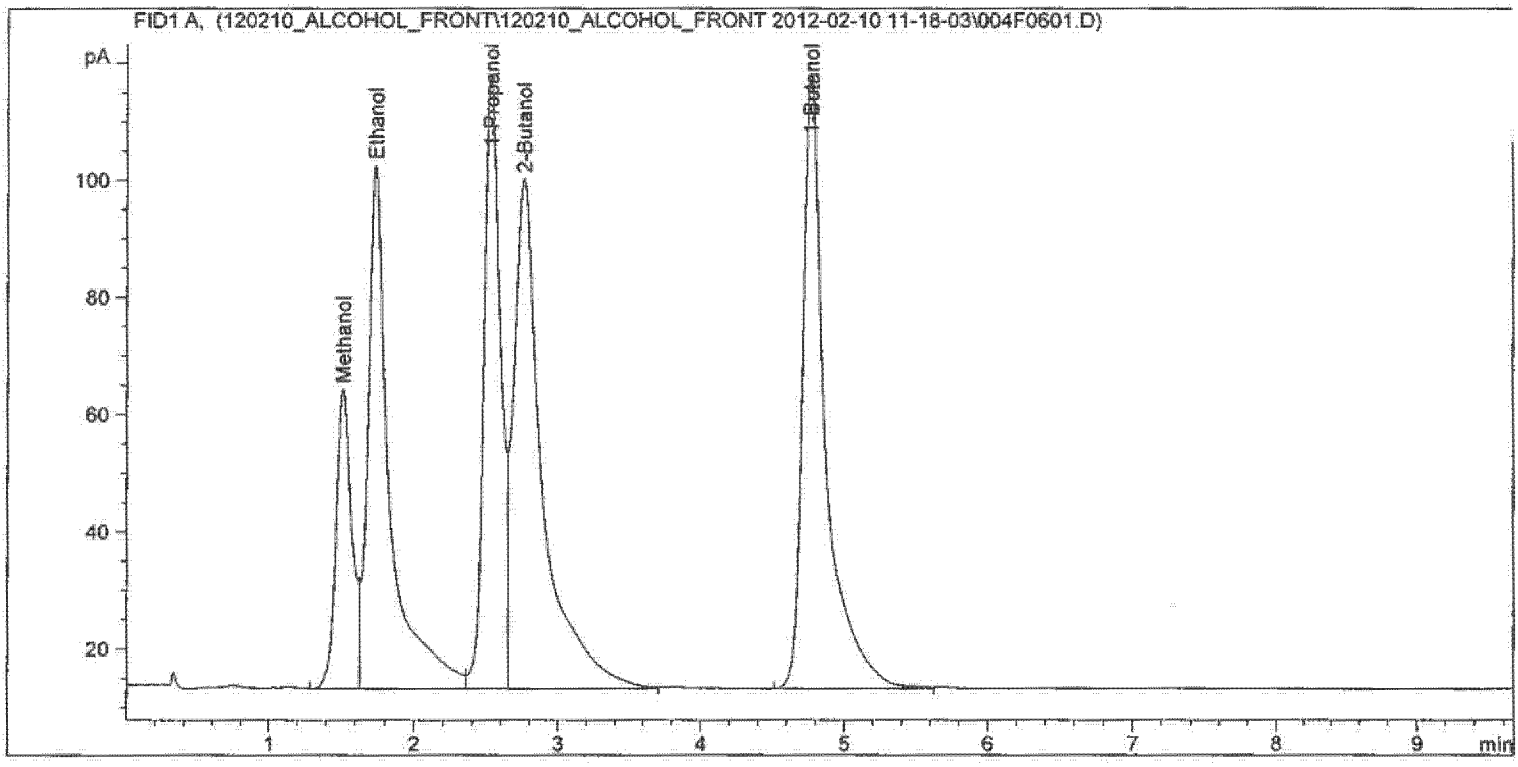
pass

Acm

Sample Name: BB21002-BS1

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 2/10/2012 12:29:58 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.515	VV	386.78839	2.71492e-1	105.01009		Methanol	105.0
1.739	VV	924.60461	1.07647e-1	99.53096		Ethanol	99.5
2.530	VV	842.72754	1.23161e-1	103.79129		1-Propanol	103.8
2.762	VV	1241.36975	8.03974e-2	99.80290		2-Butanol	99.8
4.772	BB	1146.42310	9.25178e-2	106.06449		1-Butanol	106.1

pass

Totals : 514.19973

==========

*** End of Report ***

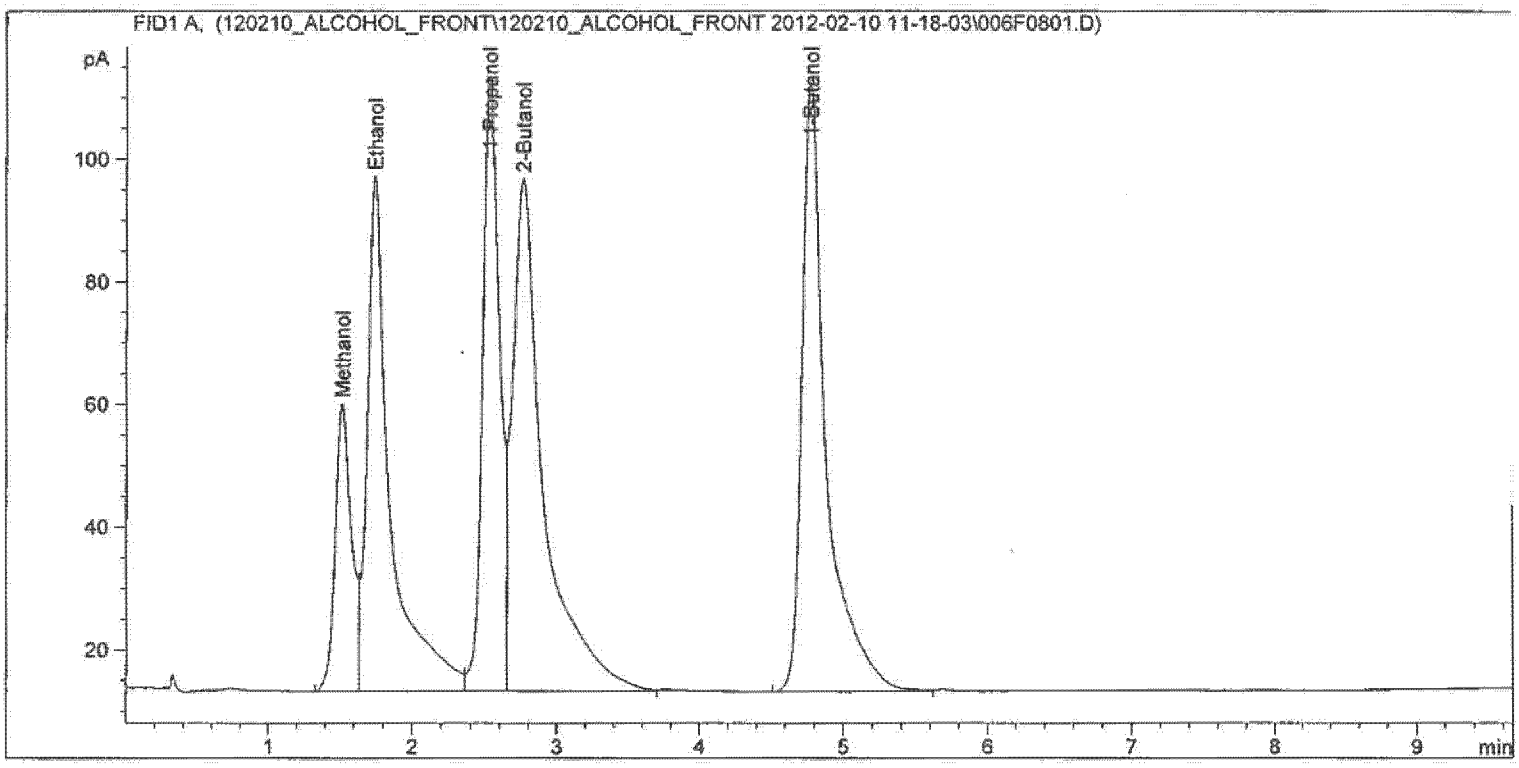
Pass

Acm

Data File C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\006F0801.D
Sample Name: BB21002-MS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 12:57:38 PM
Seq. Line : 8
Location : Vial 6
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.519	BV	364.42264	2.71826e-1	99.05966		Methanol	99.1
1.744	VV	929.32770	1.07654e-1	100.04591		Ethanol	100.0
2.534	VV	819.38226	1.23295e-1	101.02561		1-Propanol	101.0
2.767	VV	1258.23889	8.04019e-2	101.16475		2-Butanol	101.2
4.777	BB	1140.18420	9.25209e-2	105.49086		1-Butanol	105.5

pass

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\0068060I.D
Sample Name: BB21002-MS1

Totals : 506.78679

==========

*** End of Report ***

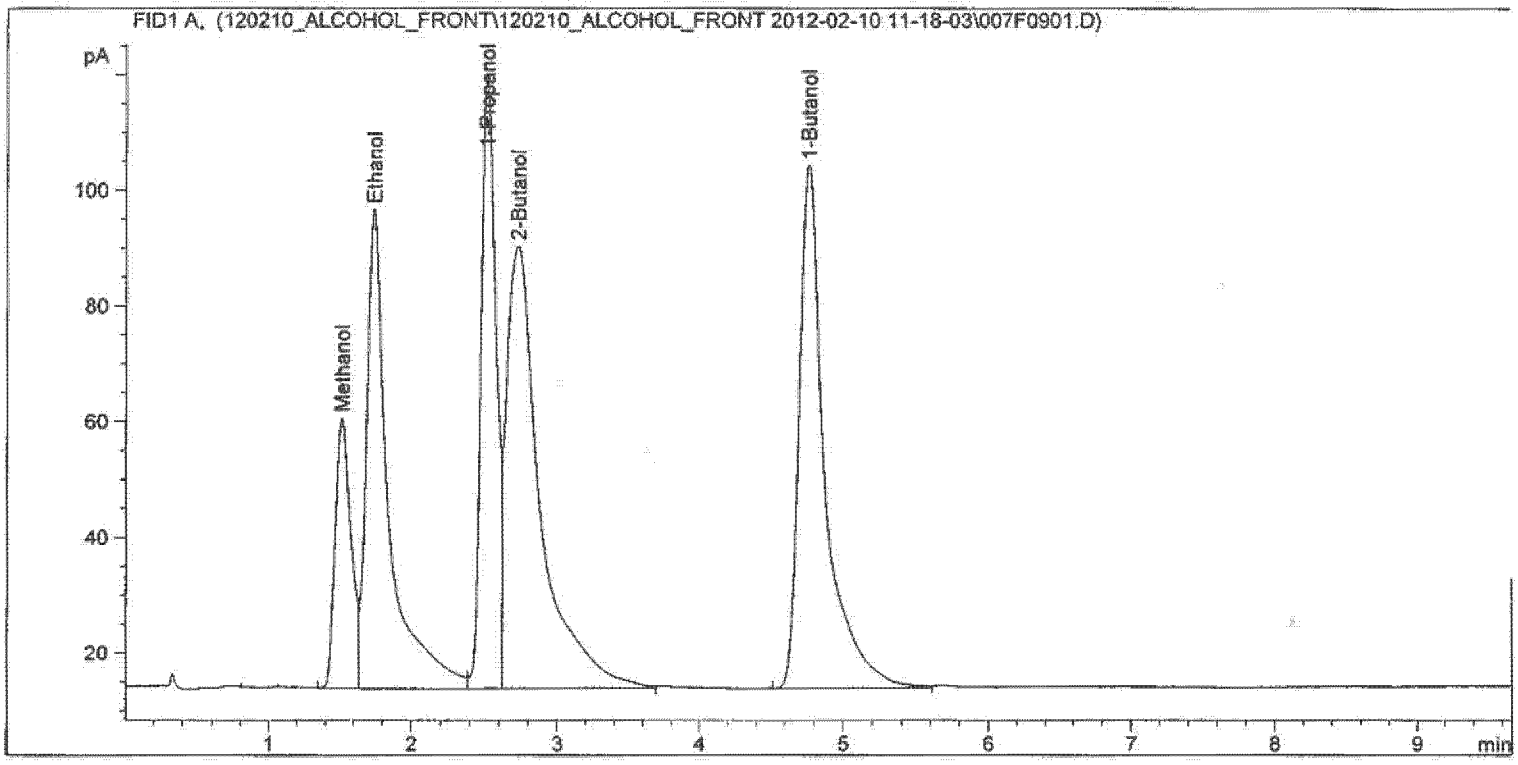
all pass

Aen

Data File C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\007F0901.D
Sample Name: BB21002-MSD1

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 2/10/2012 1:11:27 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	~~% ACM~~ % Rec
1.517	VV	360.46994	2.71890e-1	98.00804		Methanol	98.0
1.740	VV	899.44598	1.07608e-1	96.78799		Ethanol	96.8
2.516	VV	748.02356	1.23755e-1	92.57186		1-Propanol	92.6
2.732	VV	1241.11902	8.03973e-2	99.78266		2-Butanol	99.8
4.766	BB	1103.31824	9.25402e-2	102.10125		1-Butanol	102.1

Pass

Totals : 489.25179

*** End of Report ***

$$RSD = \left[\frac{R_1 - R_2}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|99.1 - 98.0|}{Avg(99.1, 98.0)}\right] 100 = \left(\frac{1.1}{98.55}\right) 100 = \underline{1.12\%}$$

$$EtOH = \left[\frac{|100.0 - 96.8|}{Avg(100, 96.8)}\right] 100 = \left[\frac{3.2}{98.4}\right] 100 = \underline{3.25\%}$$

$$1\text{-Propanol} = \left[\frac{|101.0 - 92.6|}{Avg(101, 92.6)}\right] 100 = \left[\frac{8.4}{96.8}\right] 100 = \underline{8.68\%}$$

$$2\text{-Butanol} = \left[\frac{|101.2 - 99.8|}{Avg(101.2, 99.8)}\right] 100 = \left[\frac{1.4}{100.5}\right] 100 = \underline{1.39\%}$$

$$1\text{-Butanol} = \left[\frac{|105.5 - 102.1|}{Avg(105.5, 102.1)}\right] 100 = \left[\frac{3.4}{103.8}\right] 100 = \underline{3.28\%}$$

All Pass

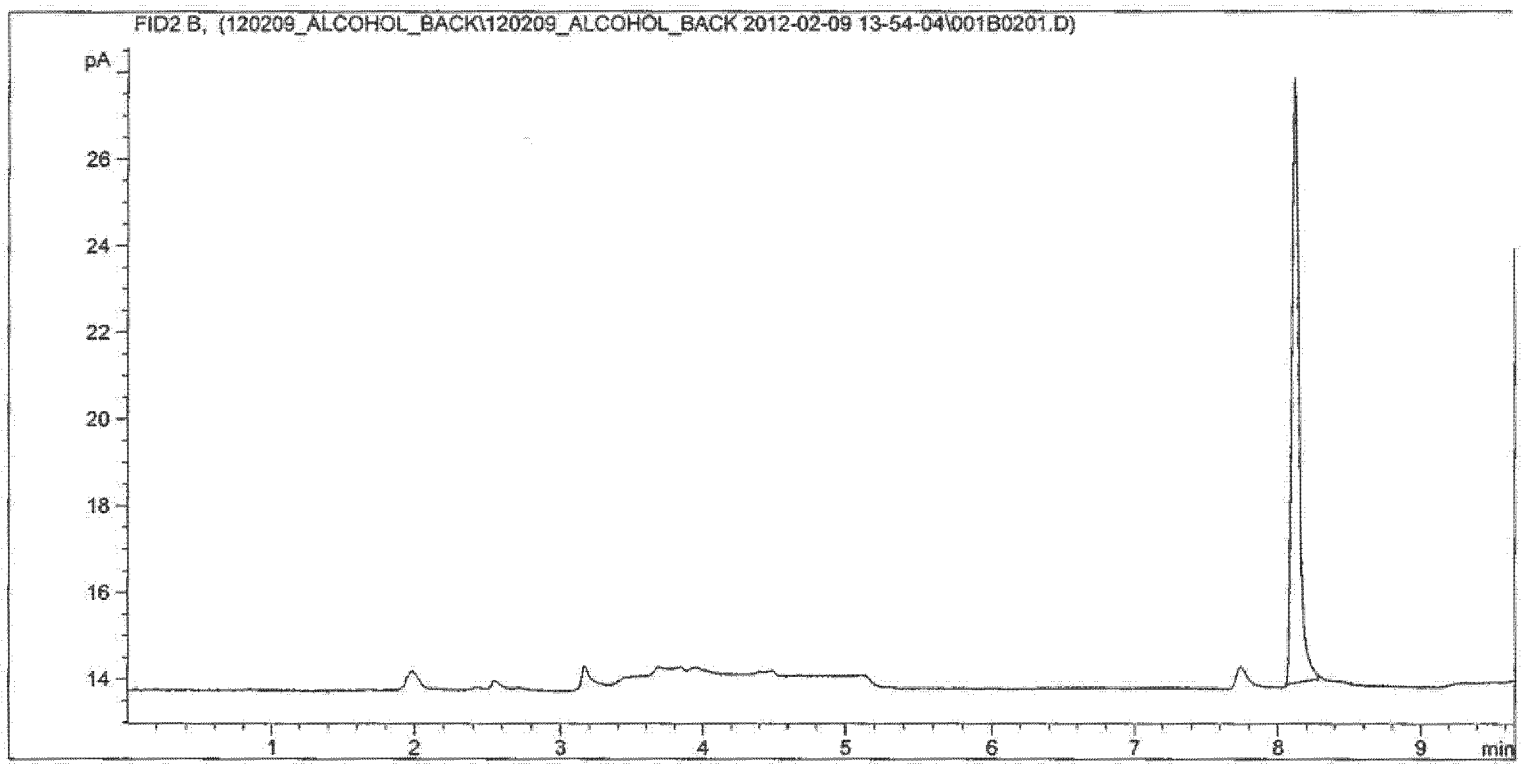
ACM

Sample Name: IBL1

Acq. Operator	: ACM	Seq. Line :	2
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 2/9/2012 2:10:44 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\001B0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

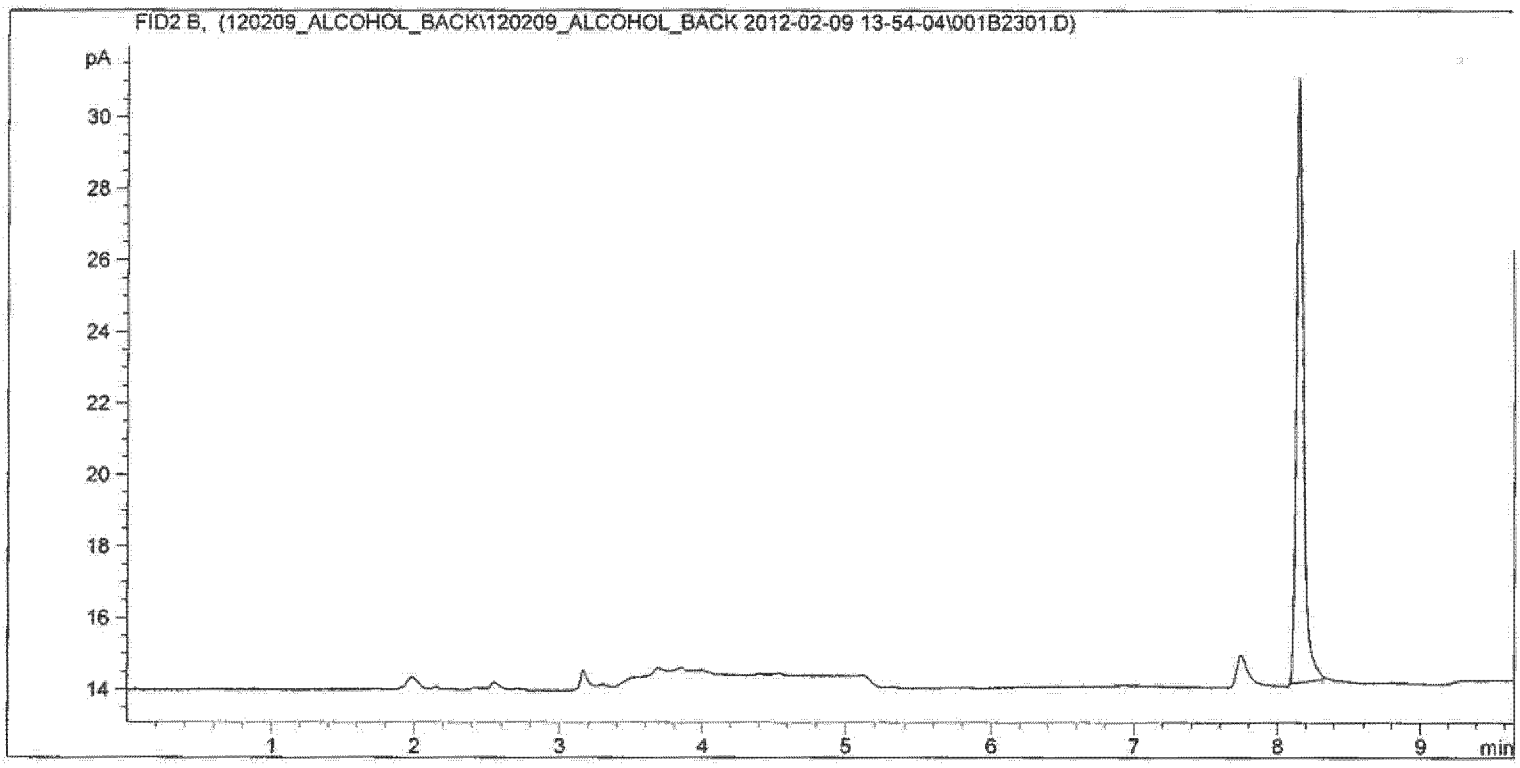
pass

Acm

Acq. Operator	: ACM	Seq. Line	: 23
Acq. Instrument	: AG3-6890N	Location	: Vial 1
Injection Date	: 2/9/2012 6:59:02 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol

N/D

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\001B2301.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

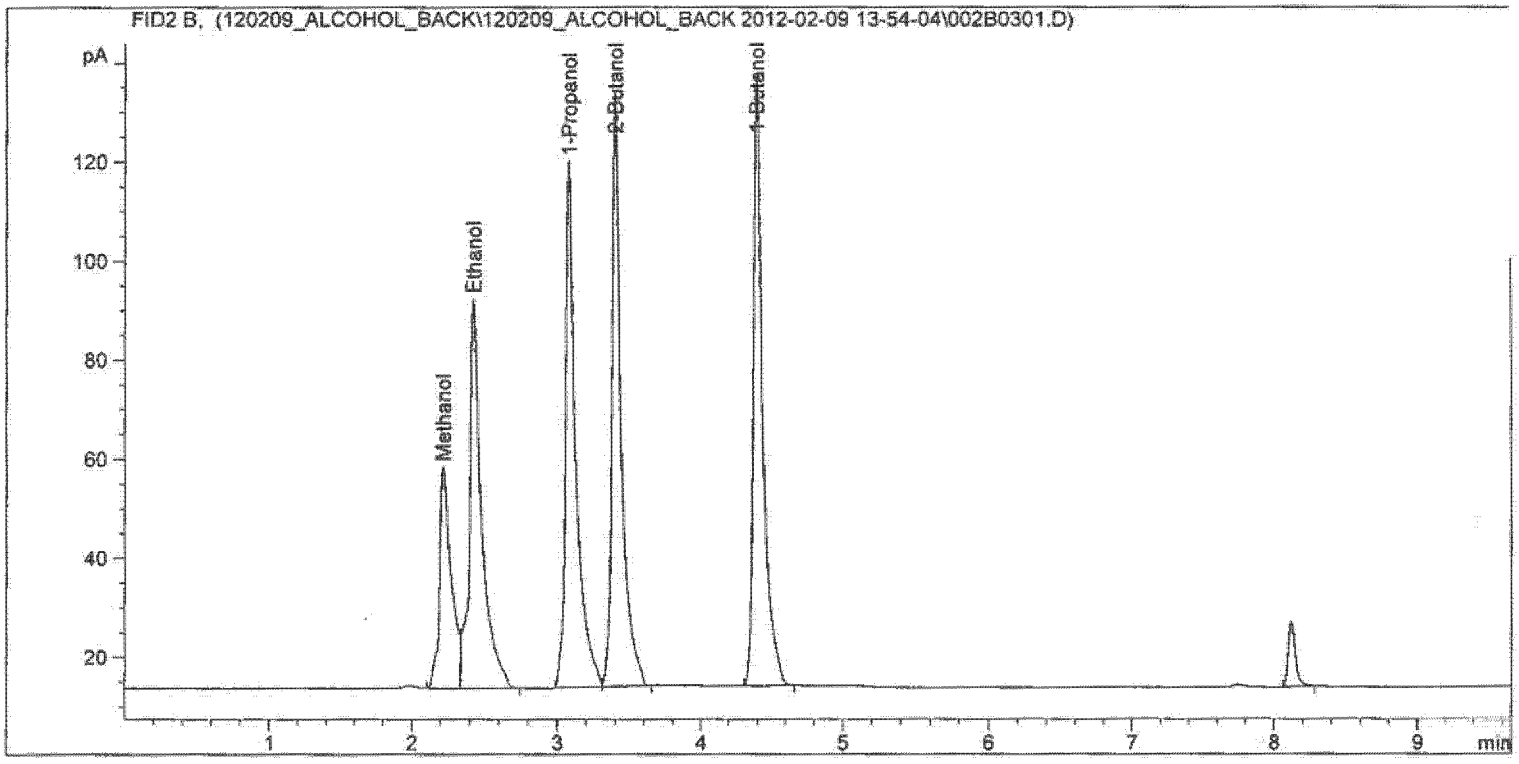
Pass

ACM

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/9/2012 2:24:27 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.217	VV	252.65654	3.74296e-1	94.56839		Methanol	5.43
2.425	VB	455.86523	2.09582e-1	95.54112		Ethanol	4.46
3.082	BV	526.34155	1.78660e-1	94.03597		1-Propanol	5.96

pass

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\002B0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.401	VB	532.89154	1.76560e-1	94.08739		2-Butanol	5.91
4.399	BB	567.83478	1.65467e-1	93.95812		1-Butanol	6.04

> pass

Totals : 472.19100

*** End of Report ***

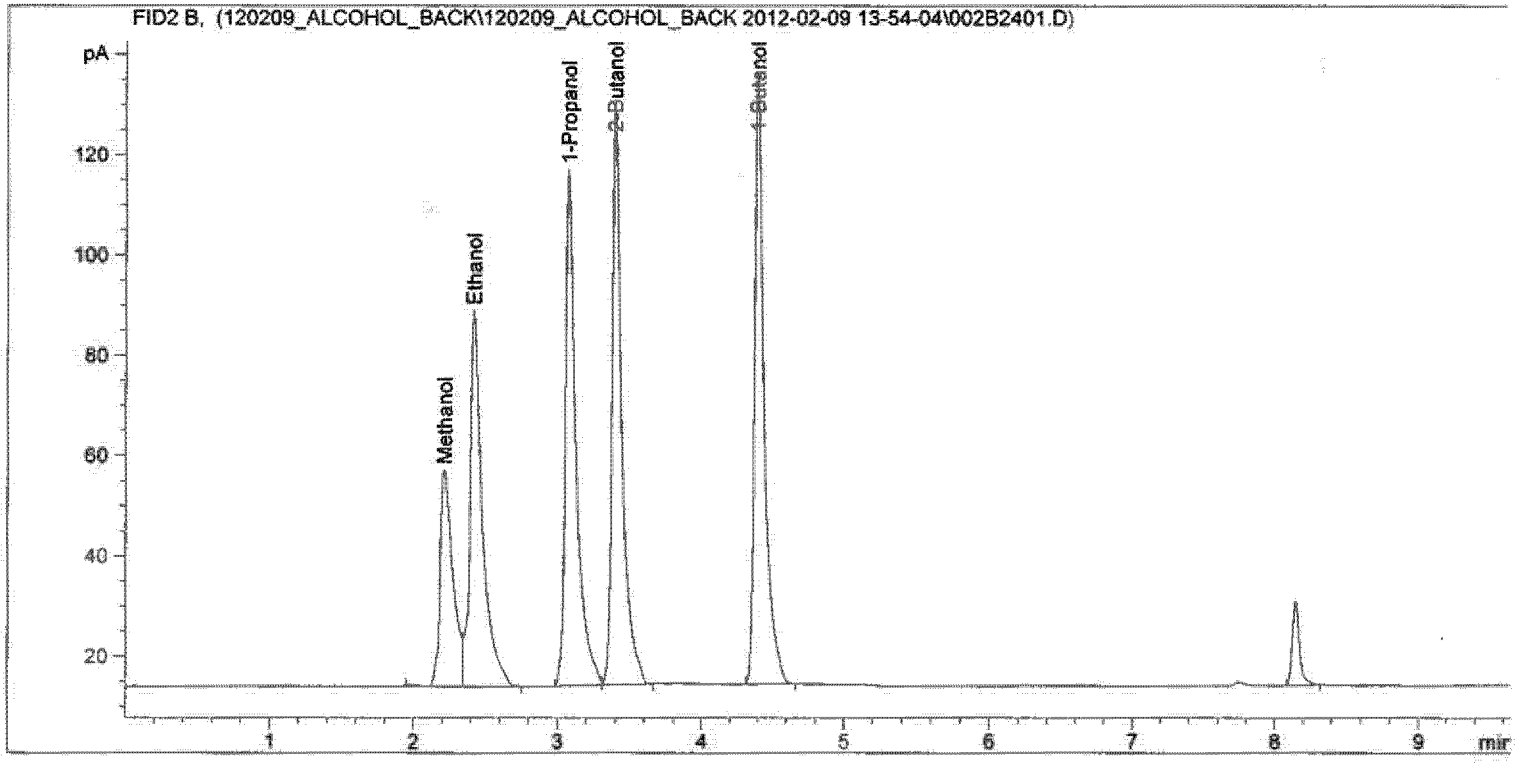
all pass

Acm

Acq. Operator	: ACM	Seq. Line	: 24
Acq. Instrument	: AG3-6890N	Location	: Vial 2
Injection Date	: 2/9/2012 7:12:46 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acn

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.217	BV	266.16260	3.74649e-1	99.71763		Methanol	0.282
2.423	VB	450.76956	2.09593e-1	94.47823		Ethanol	5.52
3.079	BV	530.89447	1.78670e-1	94.85495		1-Propanol	5.14

pass

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\002B2401.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.399	VB	537.35522	1.76570e-1	94.88069		2-Butanol	5.12
4.399	BB	573.44775	1.65475e-1	94.89145		1-Butanol	5.11

> pass

Totals : 478.82295

*** End of Report ***

pass

Am

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\003B0501.D
Sample Name: BB20901-BLK1

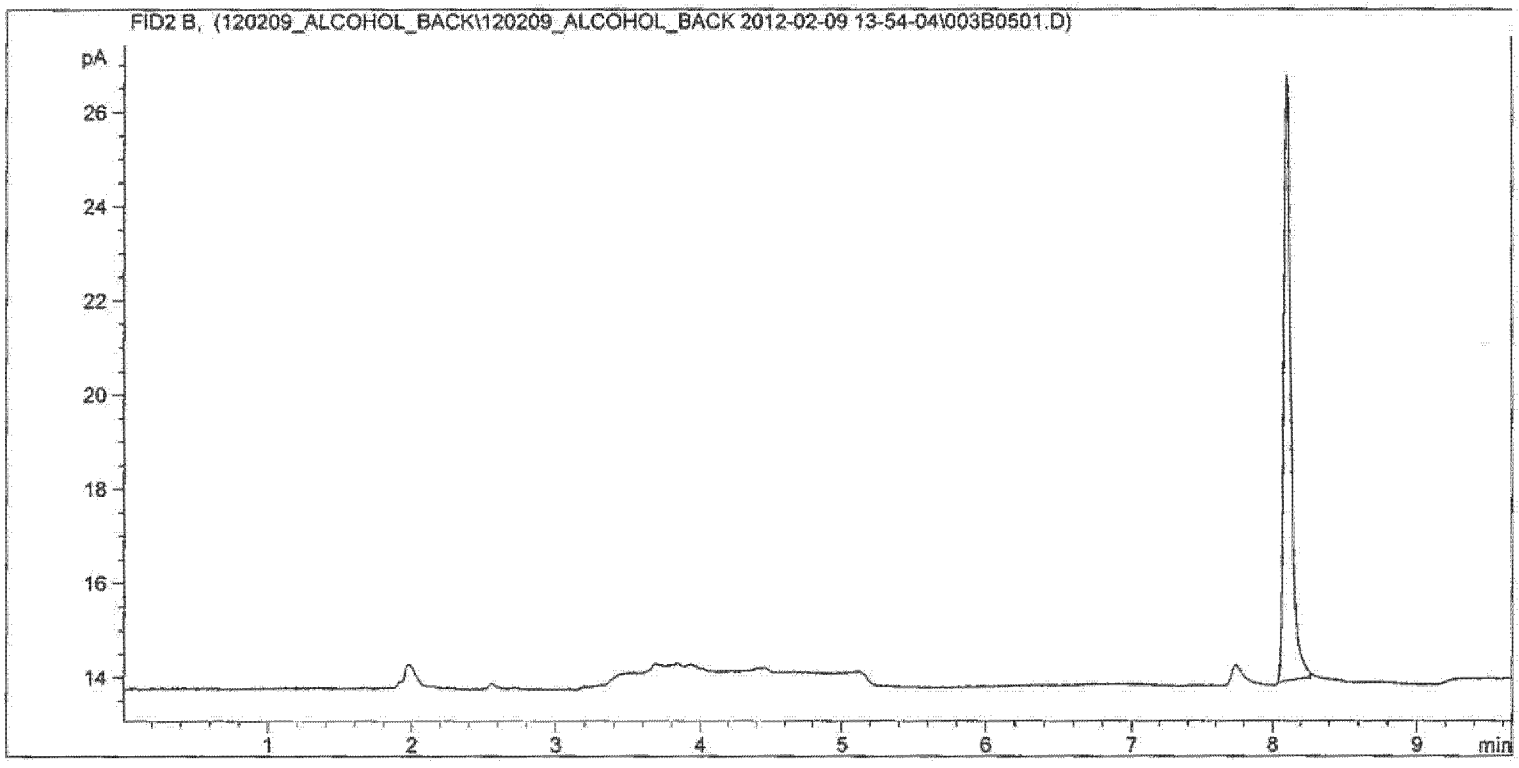
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 2:51:55 PM

Seq. Line : 5
Location : Vial 3
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\003B0501.D
Sample Name: BB20901-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

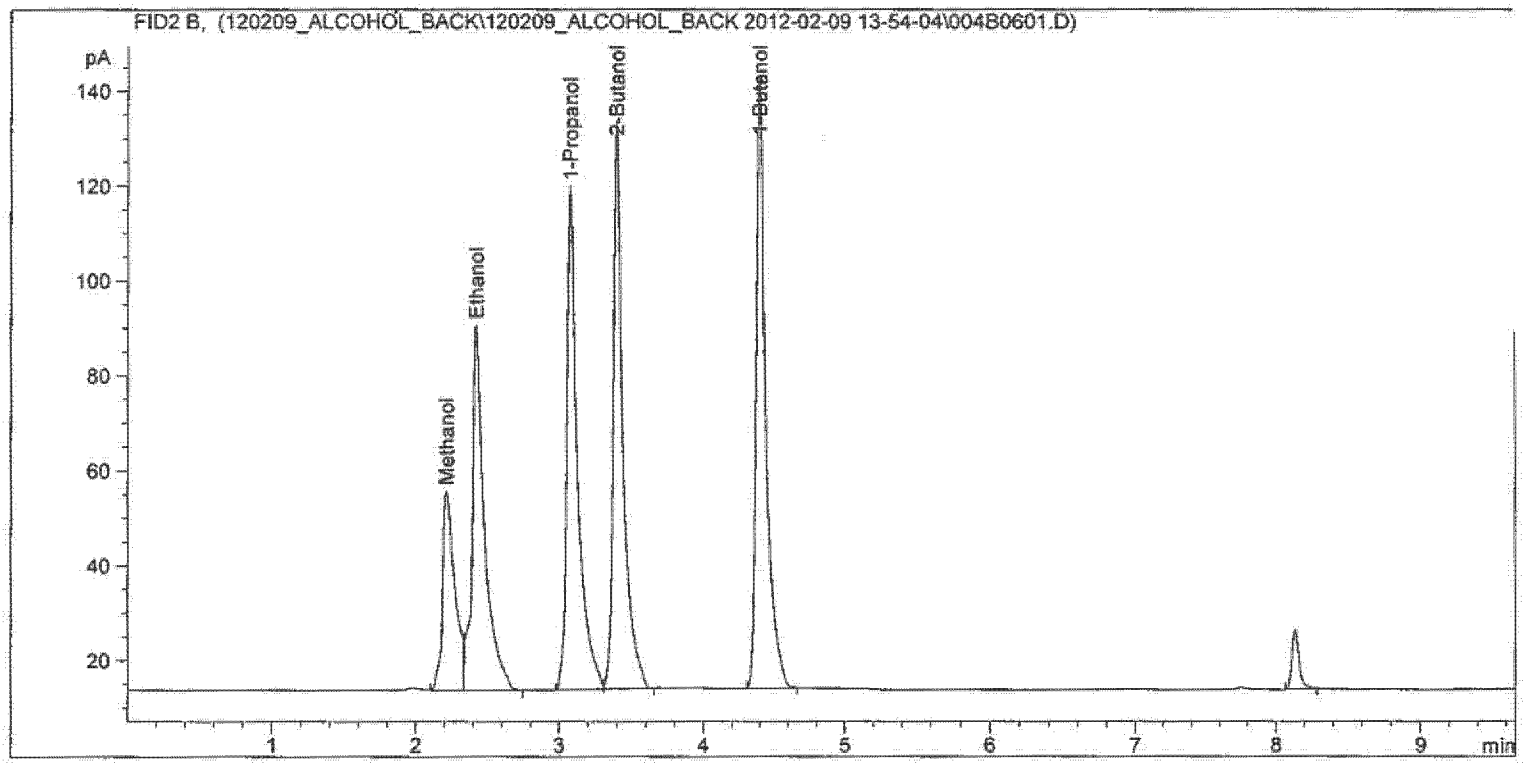
pass

Ac

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\004B0601.D
Sample Name: BB20901-BS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 3:05:39 PM
Seq. Line : 6
Location : Vial 4
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.217	VV	250.44557	3.74235e-1	93.72545		Methanol	93.7
2.423	VB	465.56293	2.09561e-1	97.56393		Ethanol	97.6
3.079	BV	549.96649	1.78712e-1	98.28564		1-Propanol	98.3
3.399	VB	553.20087	1.76603e-1	97.69682		2-Butanol	97.7
4.399	BB	611.41180	1.65525e-1	101.20415		1-Butanol	101.2

poss

Totals : 488.47600

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*** End of Report ***

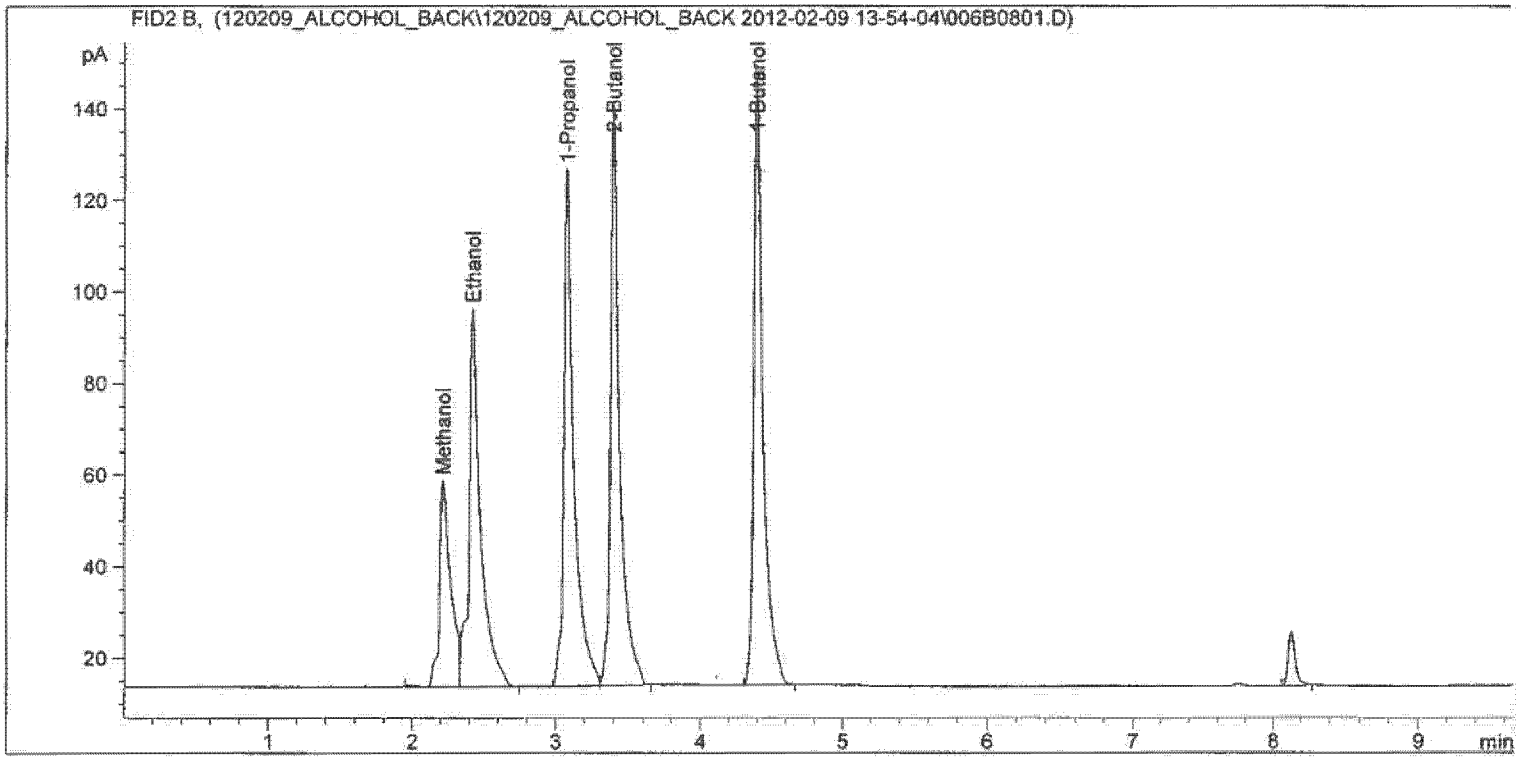
all pass

Am

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\006B0801.D
Sample Name: BB20901-MS1

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 2/9/2012 3:33:06 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.217	BV	248.54199	3.74181e-1	92.99971		Methanol	93.0
2.425	VB	464.22675	2.09564e-1	97.28522		Ethanol	97.3
3.081	BV	545.23547	1.78702e-1	97.43462		1-Propanol	97.4
3.402	VB	547.84149	1.76592e-1	96.74434		2-Butanol	96.7
4.401	BB	604.65771	1.65517e-1	100.08107		1-Butanol	100.1

pass

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\006B0801.D
Sample Name: BB20901-MS1

Totals : 484.54496

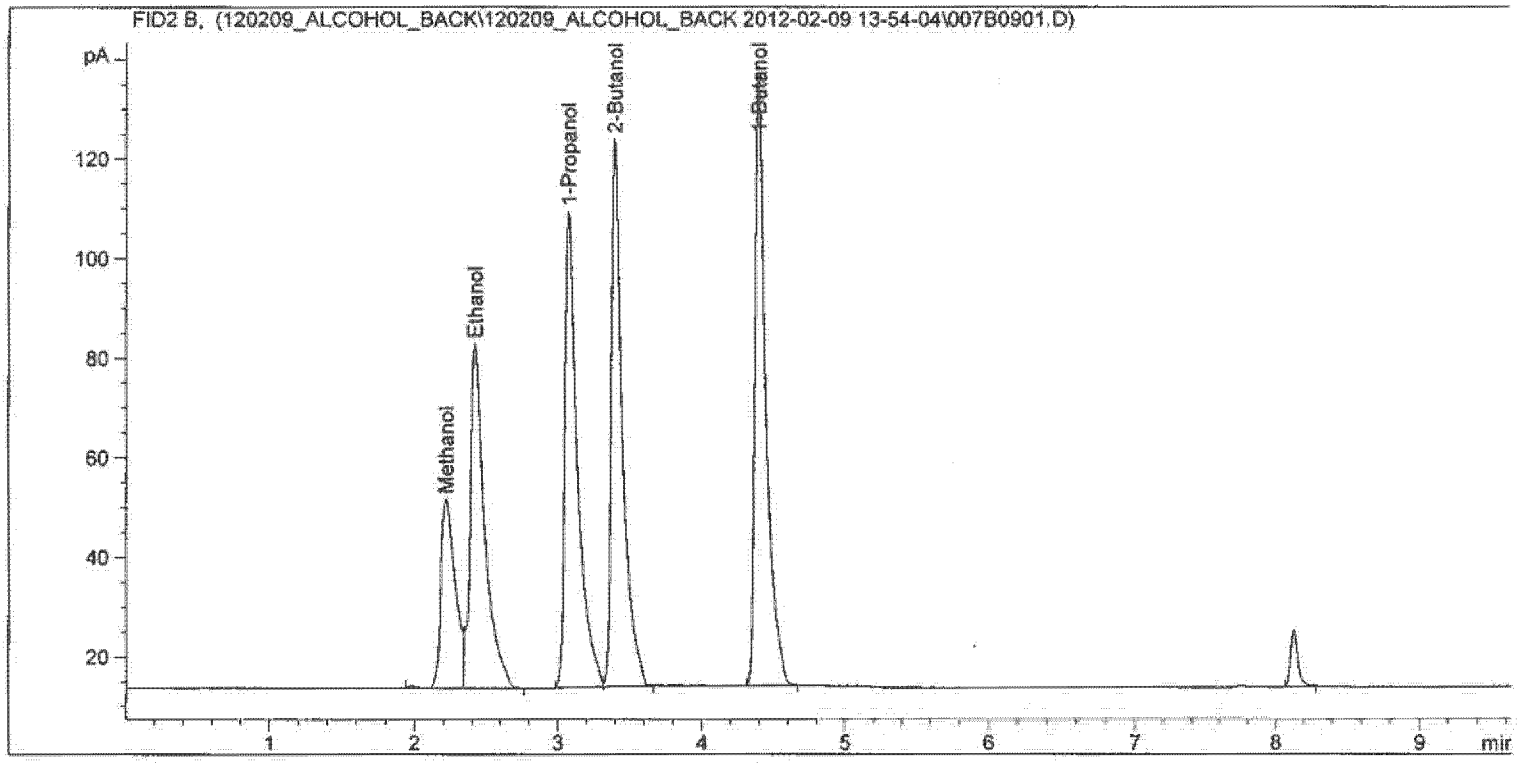
*** End of Report ***

Pass

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\007B0901.D
Sample Name: BB20901-MSD1

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 2/9/2012 3:46:50 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.219	BV	264.46625	3.74607e-1	99.07089		Methanol	99.1
2.423	VB	492.25464	2.09508e-1	103.13147		Ethanol	103.1
3.078	BV	586.86115	1.78786e-1	104.92228		1-Propanol	104.9
3.397	VB	594.03070	1.76680e-1	104.95321		2-Butanol	105.0
4.398	BB	654.98352	1.65576e-1	108.44930		1-Butanol	108.4

pass

Totals : 520.52715

*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|99.1 - 93.0|}{Avg(99.1, 93)}\right] 100 = \left[\frac{6.1}{96.05}\right] 100 = 6.35\%$$

$$EtOH = \left[\frac{|103.1 - 97.3|}{Avg(103.1, 97.3)}\right] 100 = \left[\frac{5.8}{100.2}\right] 100 = 5.79$$

$$1\text{-Propanol} = \left[\frac{|104.9 - 97.4|}{Avg(104.9, 97.4)}\right] 100 = \left[\frac{7.5}{101.15}\right] 100 = 7.41\%$$

$$2\text{-Butanol} = \left[\frac{|105.0 - 96.7|}{Avg(105, 96.7)}\right] 100 = \left[\frac{8.3}{100.85}\right] 100 = 8.23\%$$

$$1\text{-Butanol} = \left[\frac{|108.4 - 100.1|}{Avg(108.4, 100.1)}\right] 100 = \left[\frac{8.3}{104.25}\right] 100 = 7.96\%$$

all pass

ACM

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\001B0201.D
Sample Name: IBL1

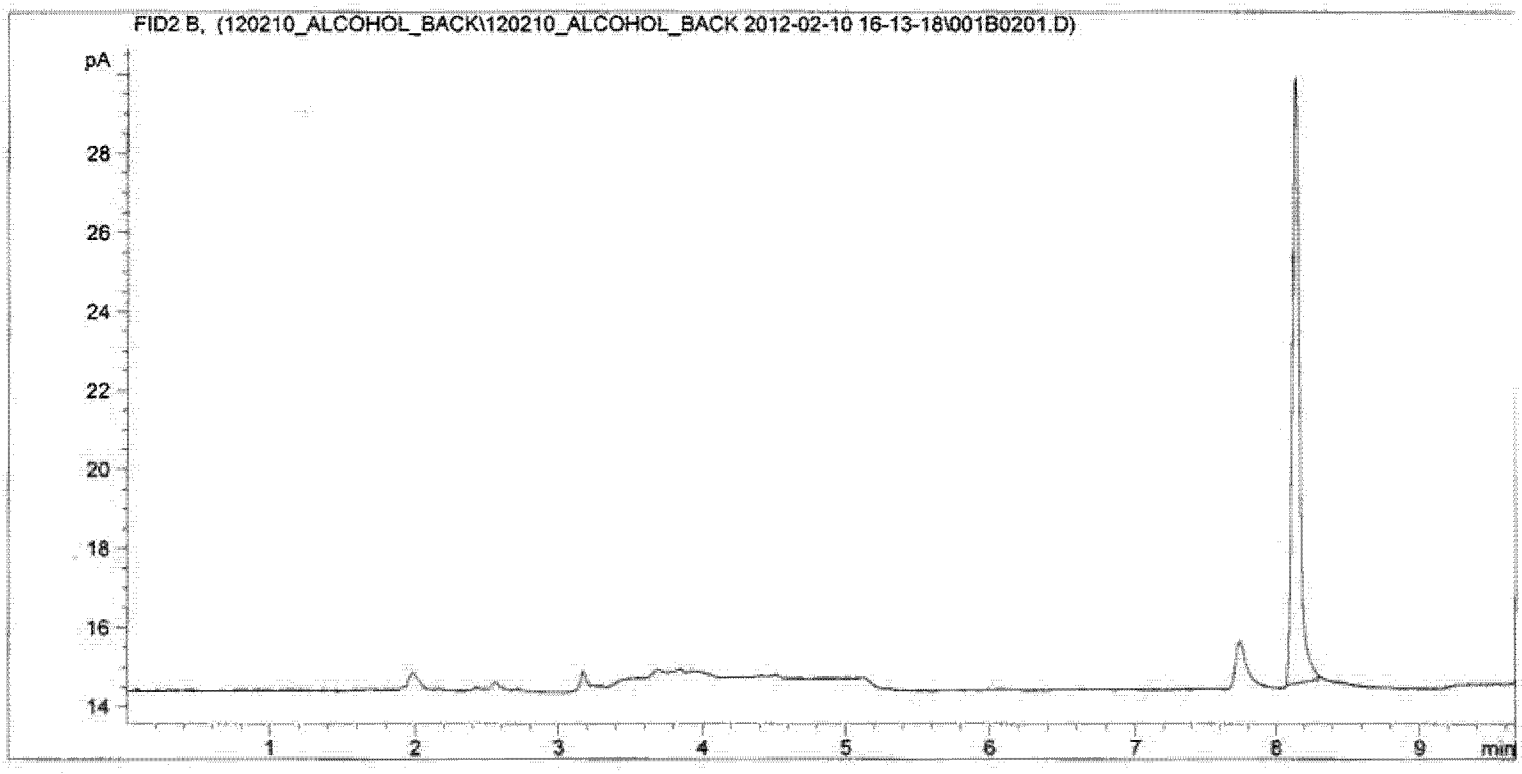
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 4:29:53 PM

Seq. Line : 2
Location : Vial 1
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:04 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\001B0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

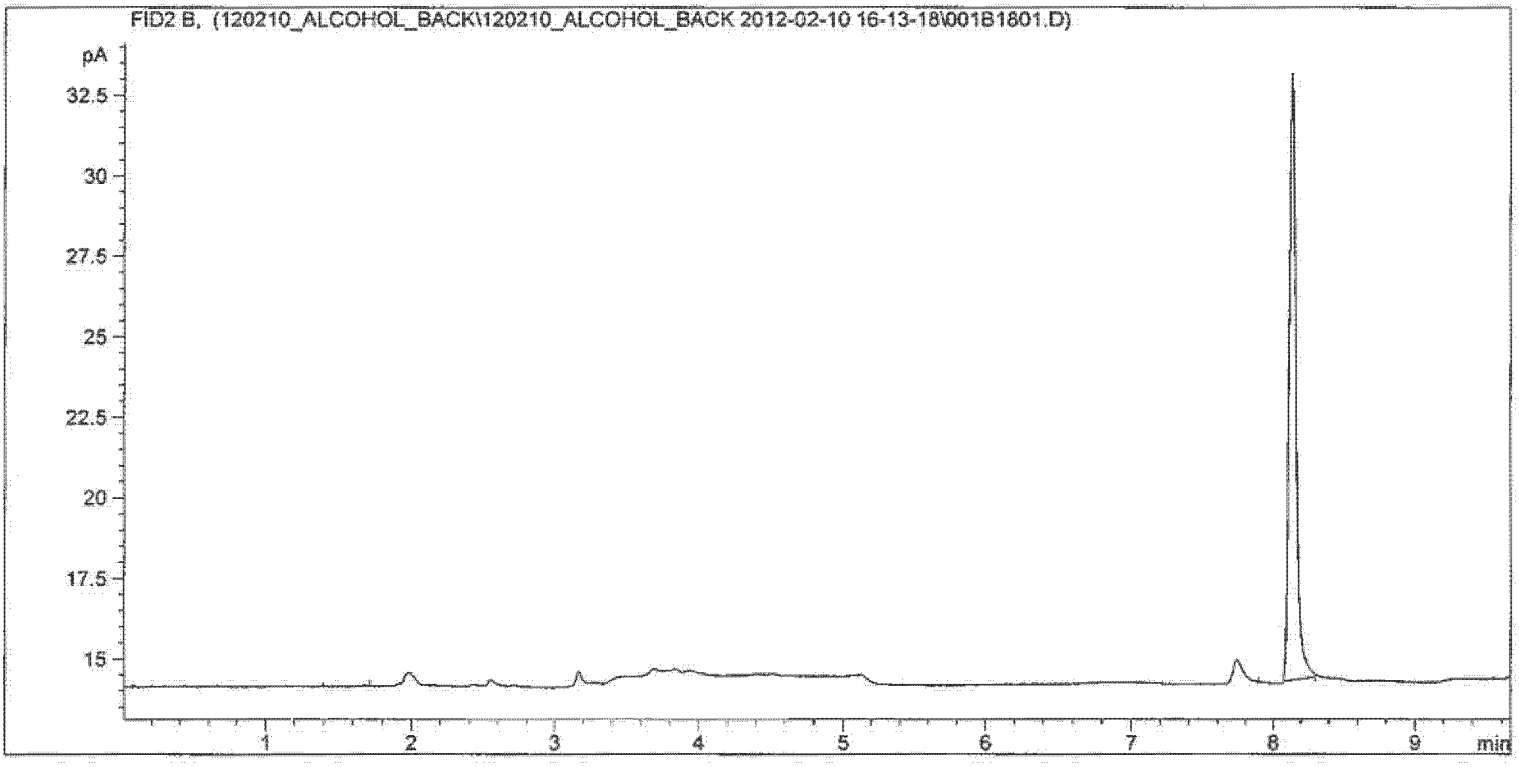
Pass

Am

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\001B1801.D
Sample Name: IBL2

Acq. Operator	: ACM	Seq. Line :	18
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 2/10/2012 8:09:26 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\001B1801.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

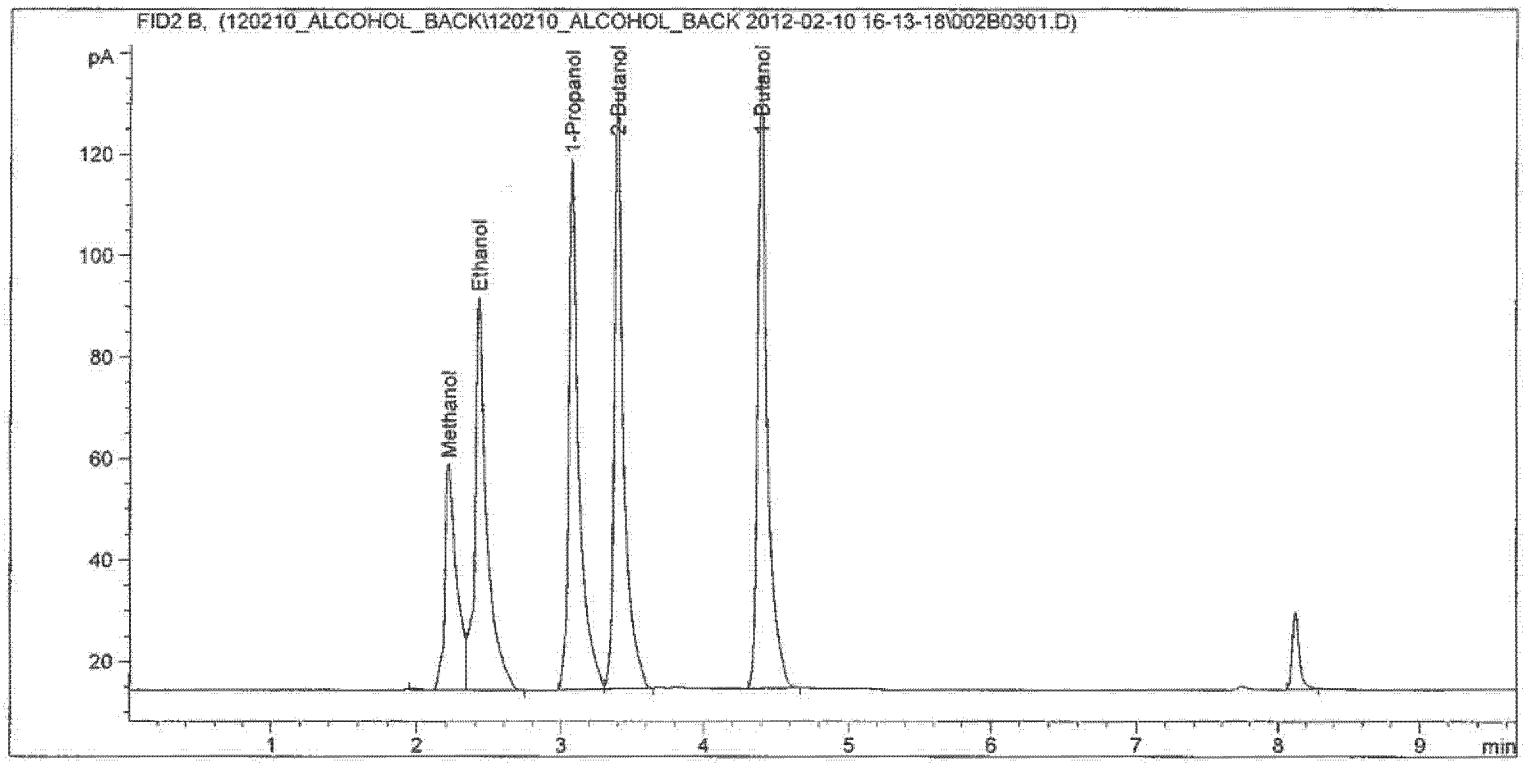
*** End of Report ***

pass

Acm

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/10/2012 4:43:37 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Ar

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.215	BV	252.86702	3.74302e-1	94.64864		Methanol	5.35
2.423	VB	446.26410	2.09603e-1	93.53845		Ethanol	6.46
3.079	BV	516.76251	1.78637e-1	92.31288		1-Propanol	7.69

> pass

Data File C:\CHEM32\...\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-16\002B0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.399	VB	523.83026	1.76540e-1	92.47699		2-Butanol	7.52
4.397	BB	557.24017	1.65452e-1	92.19644		1-Butanol	7.80
Totals :				465.17341			

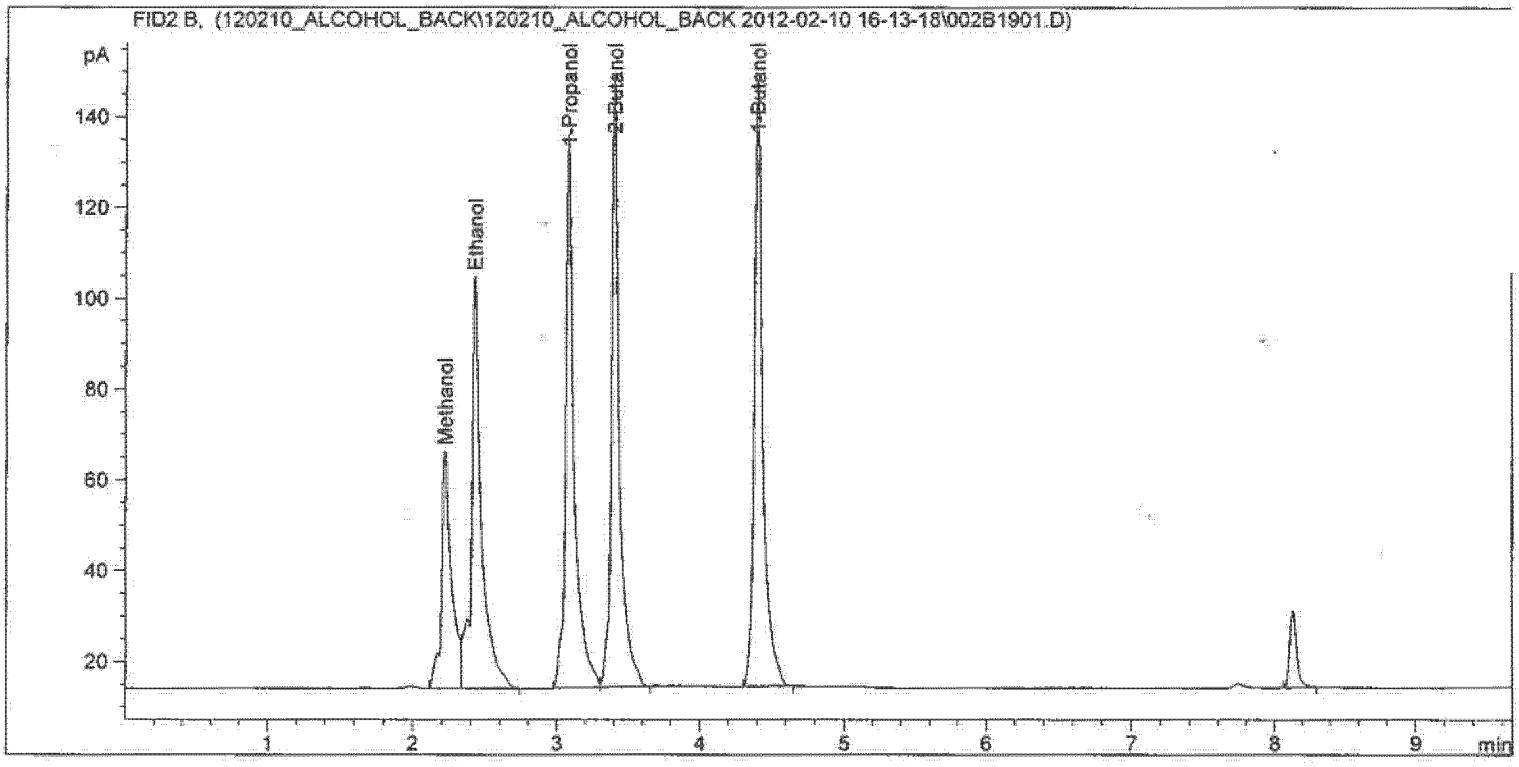
*** End of Report ***

all pass

AL

Acq. Operator : ACM
Seq. Line : 19
Acq. Instrument : AG3-6890N
Location : Vial 2
Injection Date : 2/10/2012 8:23:10 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Acm

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.222	BV	249.02954	3.74195e-1	93.18559		Methanol	6.81
2.430	VB	440.96753	2.09616e-1	92.43366		Ethanol	7.57
3.085	BV	510.36020	1.78621e-1	91.16123		1-Propanol	8.84

> pass

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\002B1901.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.405	VB	516.94263	1.76524e-1	91.25291		2-Butanol	8.75
4.402	BB	550.05353	1.65441e-1	91.00144		1-Butanol	9.00

> poss

Totals : 459.03482

*** End of Report ***

all poss

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\003B0501.D
Sample Name: BB21002-BLK1

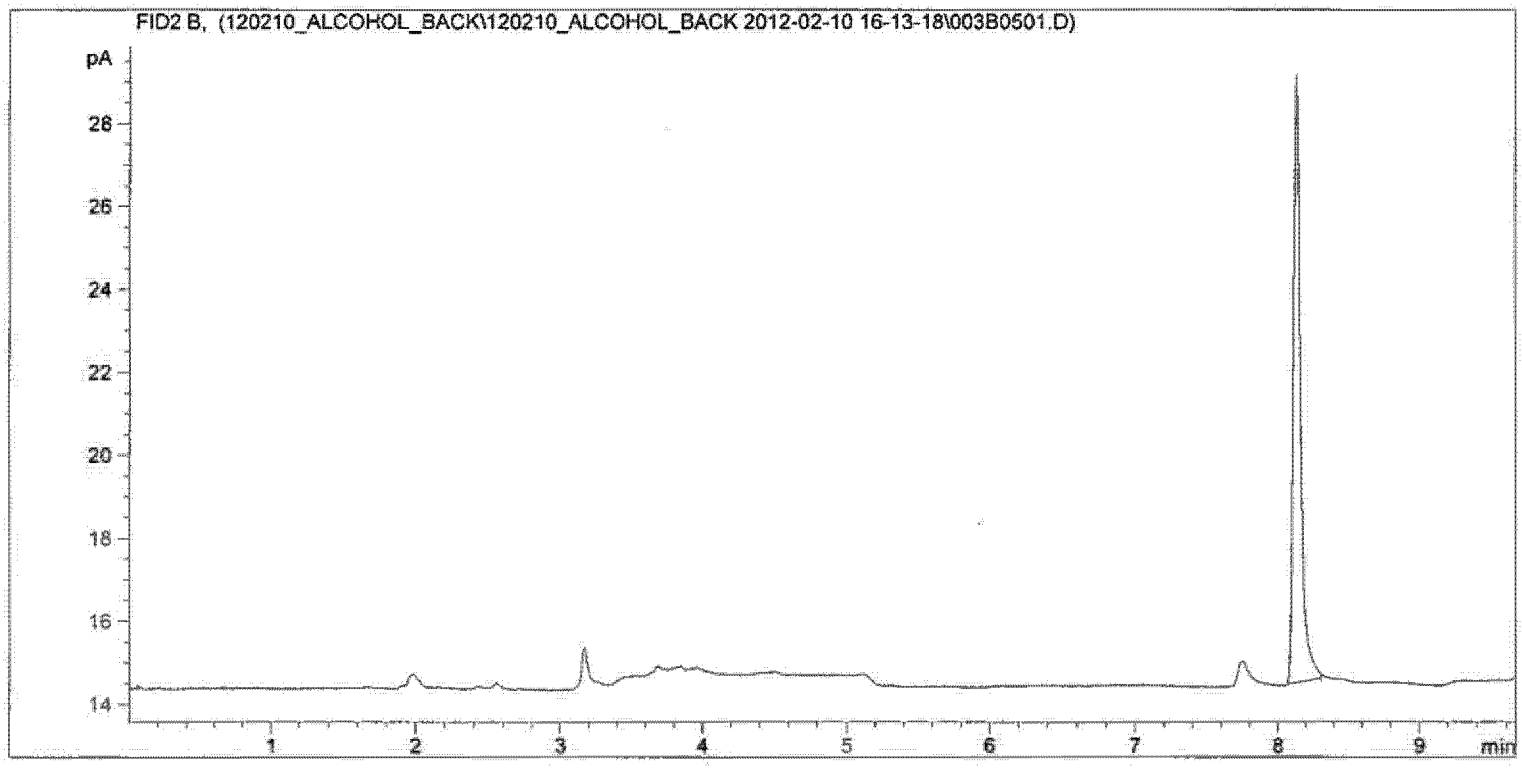
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 5:11:05 PM

Seq. Line : 5
Location : Vial 3
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\003B0501.D
Sample Name: BB21002-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

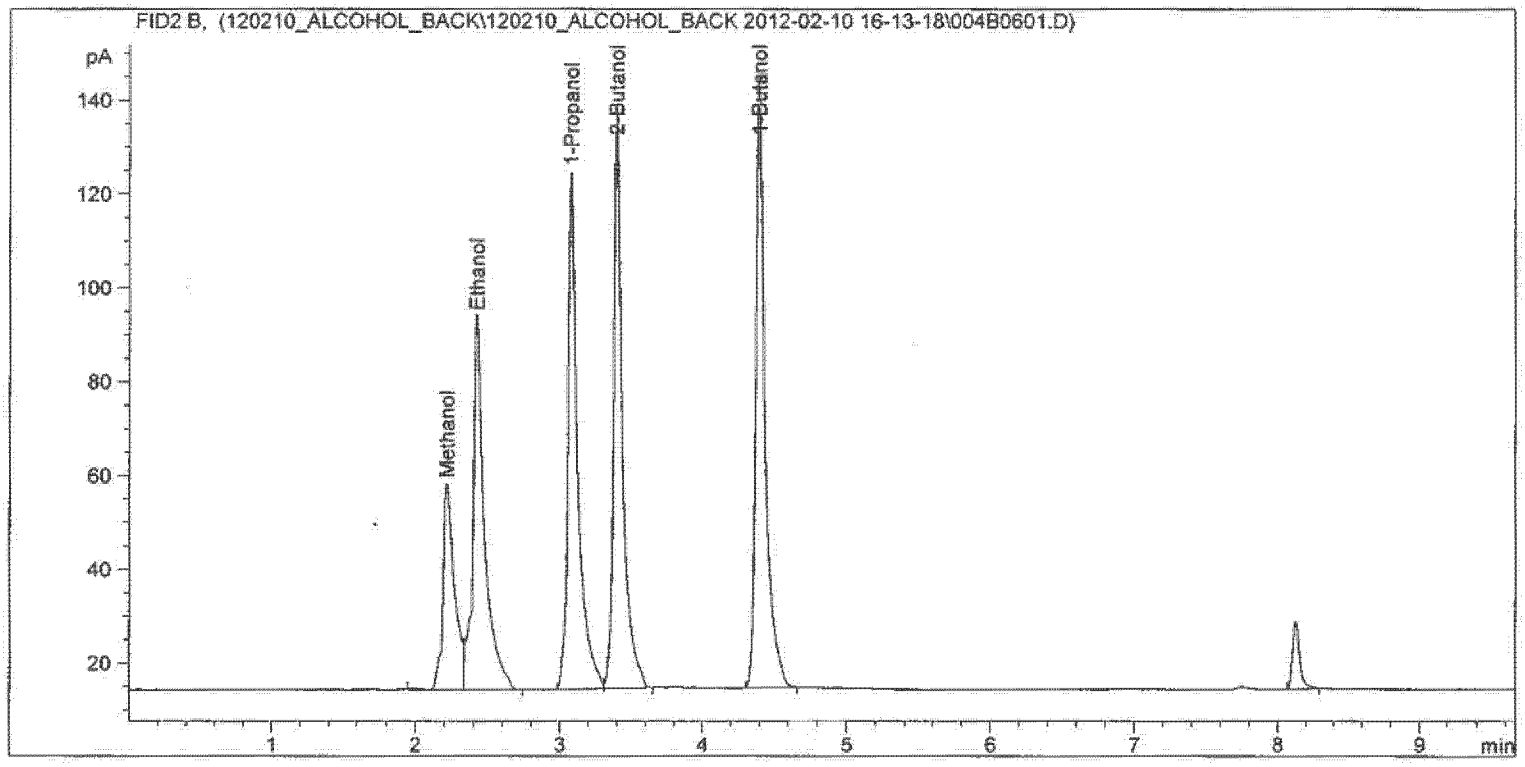
==========

*** End of Report ***

pass

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\004B0601.D
Sample Name: BB21002-BS1

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 2/10/2012 5:24:45 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Ahn

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.216	BV	244.30818	3.74059e-1	91.38555		Methanol	91.4
2.424	VB	446.10471	2.09604e-1	93.50520		Ethanol	93.5
3.080	BV	528.14185	1.78664e-1	94.35981		1-Propanol	94.4
3.400	VB	528.49493	1.76550e-1	93.30601		2-Butanol	93.3
4.399	BB	585.12836	1.65491e-1	96.83372		1-Butanol	96.8

pass

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\004B0601.D
Sample Name: BB21002-BS1

Totals : 469.39029

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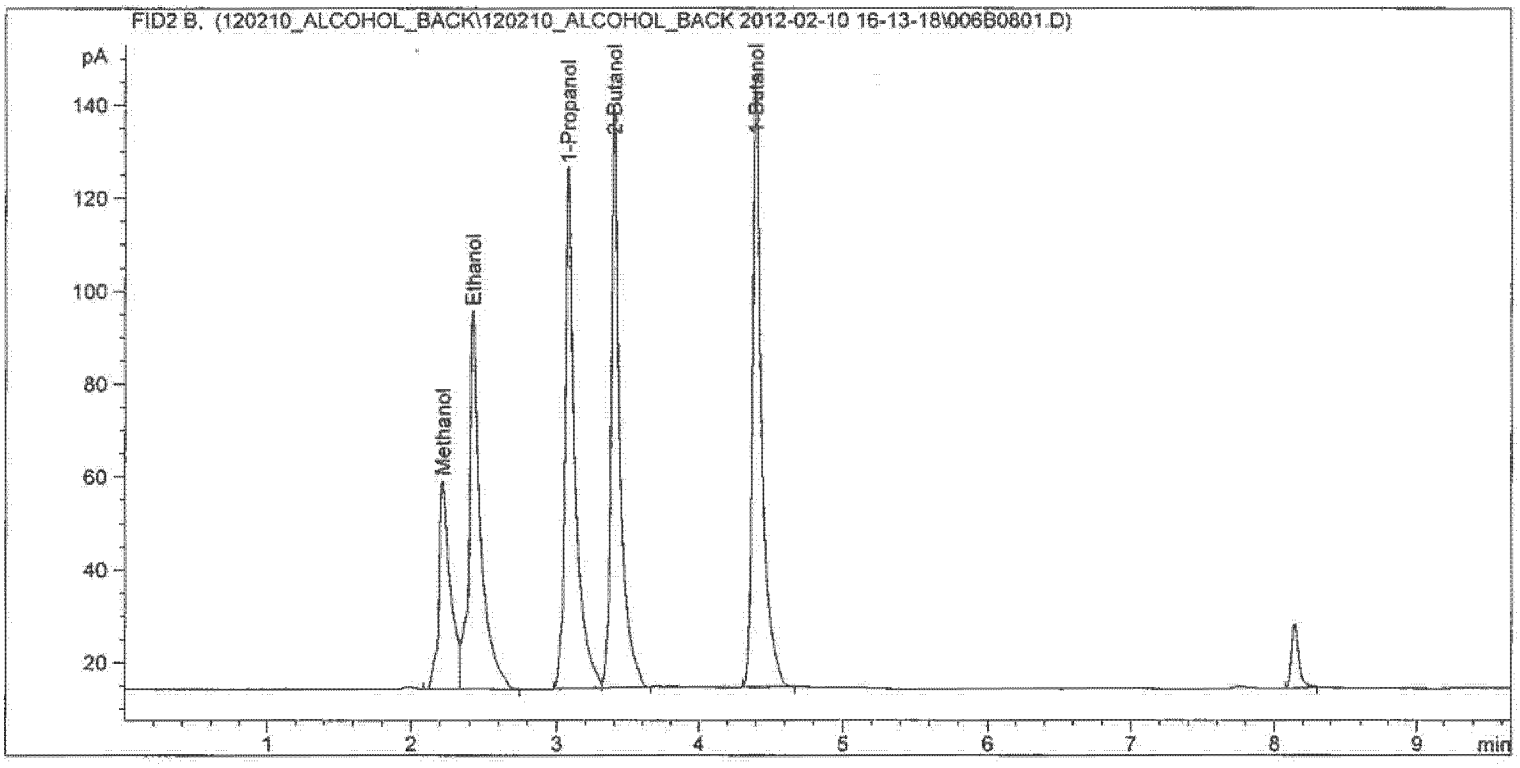
*** End of Report ***

all pass

Am

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\006B0801.D
Sample Name: BB21002-MS1

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 2/10/2012 5:52:12 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.217	VV	244.81732	3.74073e-1	91.57966		Methanol	91.6
2.425	VB	449.31644	2.09596e-1	94.17513		Ethanol	94.2
3.080	BV	531.81409	1.78672e-1	95.02037		1-Propanol	95.0
3.401	VB	533.07678	1.76561e-1	94.12031		2-Butanol	94.1
4.401	BB	589.58142	1.65497e-1	97.57418		1-Butanol	97.6

pass

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\006B0801.D
Sample Name: BB21002-MS1

Totals : 472.46965

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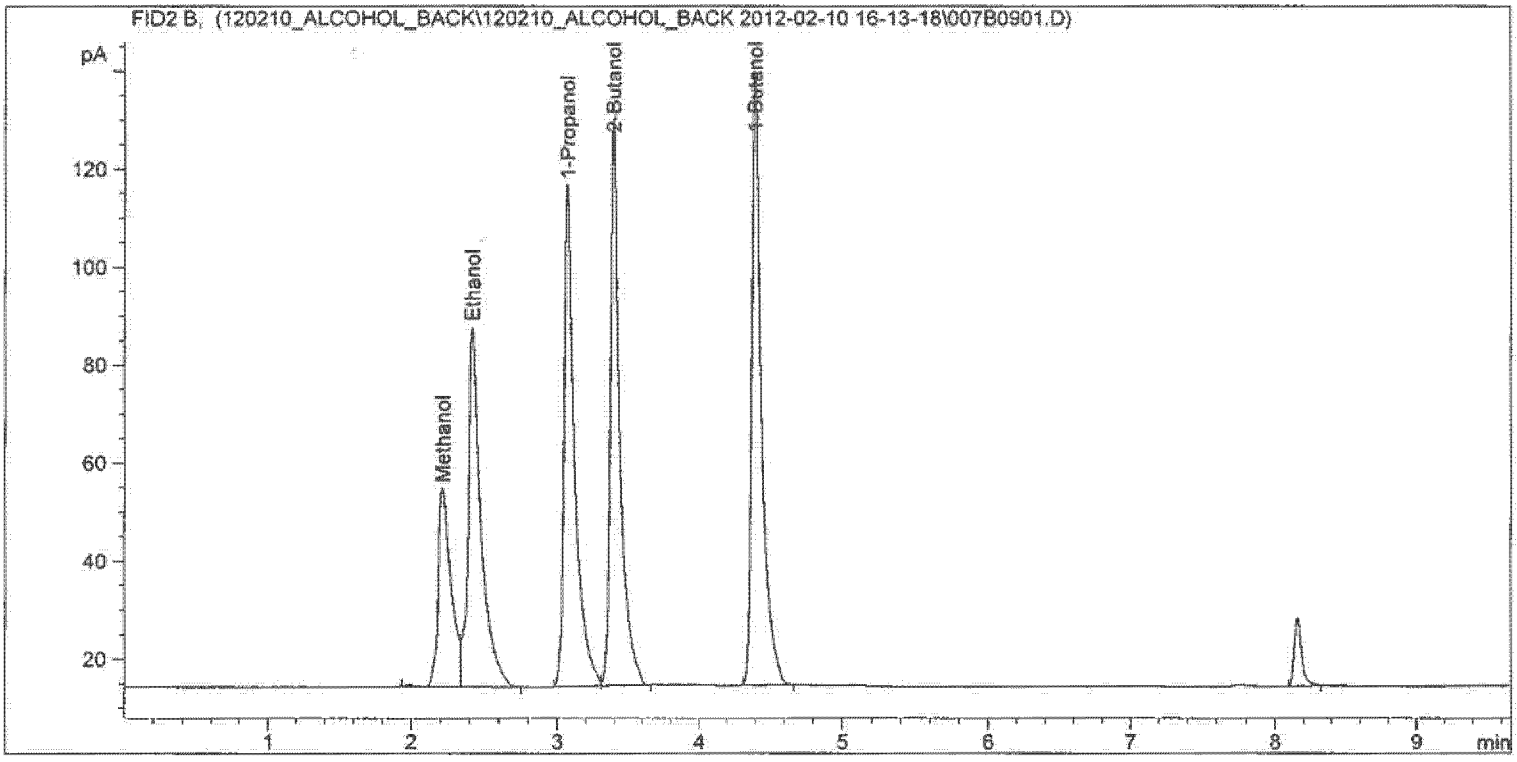
*** End of Report ***

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\007B0901.D
Sample Name: BB21002-MSD1

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 2/10/2012 6:05:55 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.214	BV	252.15102	3.74282e-1	94.37566		Methanol	94.4
2.419	VB	447.15341	2.09601e-1	93.72395		Ethanol	93.7
3.074	BV	534.61481	1.78678e-1	95.52417		1-Propanol	95.5
3.396	VB	537.62091	1.76570e-1	94.92791		2-Butanol	94.9
4.397	BB	593.53101	1.65503e-1	98.23092		1-Butanol	98.2

pass

Totals : 476.78260

==========

*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|94.4 - 91.6|}{Avg(94.4, 91.6)}\right] 100 = \left[\frac{2.8}{93}\right] 100 = \underline{3.01\%}$$

$$EtOH = \left[\frac{|94.2 - 93.7|}{Avg(94.2, 93.7)}\right] 100 = \left[\frac{0.5}{93.95}\right] 100 = \underline{0.532\%}$$

$$1\text{-Propanol} = \left(\frac{|95.5 - 95.0|}{Avg(95.5, 95)}\right) 100 = \left[\frac{0.5}{95.25}\right] 100 = \underline{0.525\%}$$

$$2\text{-Butanol} = \left[\frac{|94.9 - 94.1|}{Avg(94.9, 94.1)}\right] 100 = \left[\frac{0.8}{94.5}\right] 100 = \underline{0.84\%}$$

$$1\text{-Butanol} = \left[\frac{|98.2 - 97.6|}{Avg(98.2, 97.6)}\right] 100 = \left[\frac{0.6}{97.9}\right] 100 = \underline{0.613\%}$$

all pass

Acm

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202003

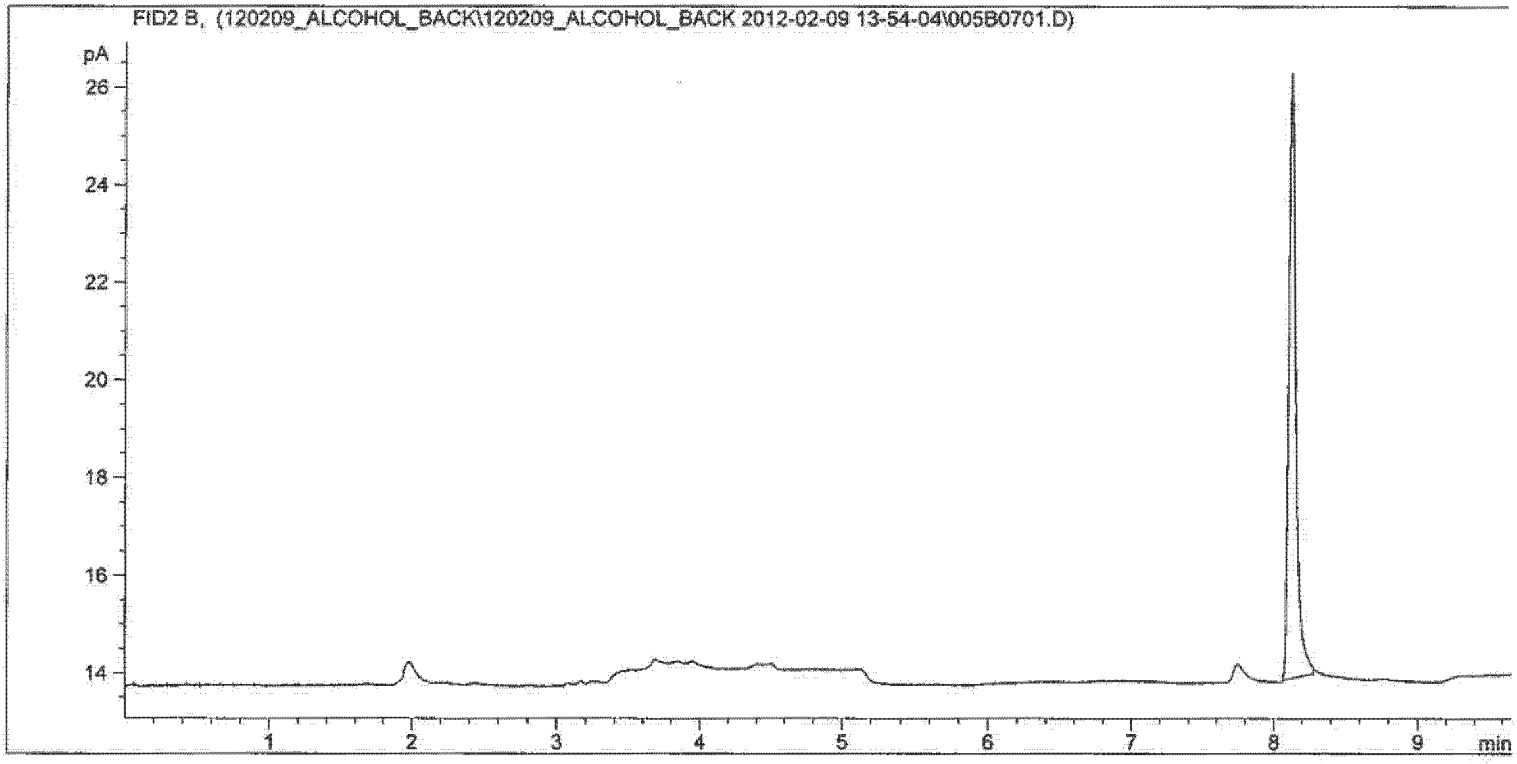
Dimock Residential Groundwater

DAS R33907

Sample Data

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/9/2012 3:19:22 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acn

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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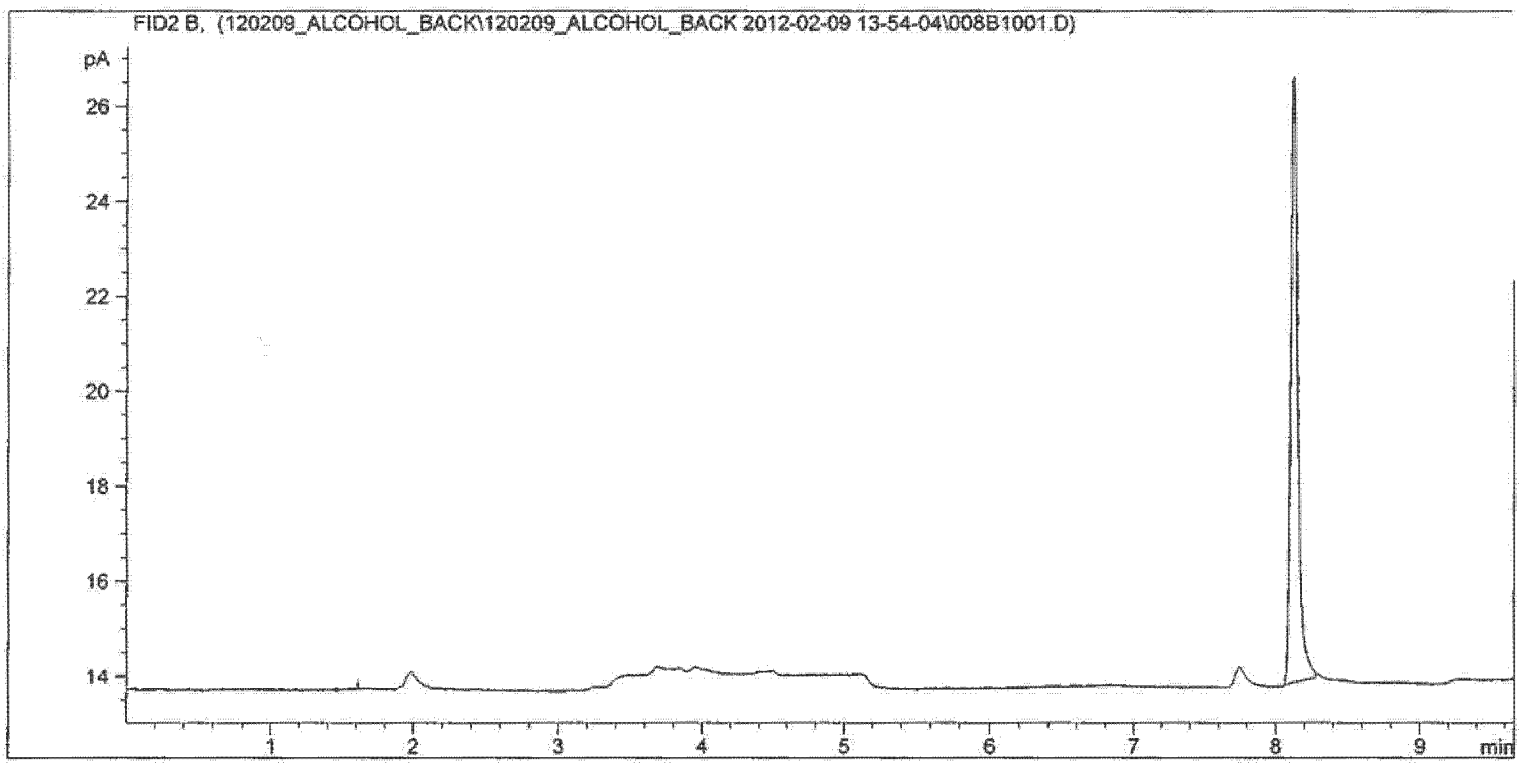
*** End of Report ***

ACM

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\008B1001.D
Sample Name: 1202003-02

Acq. Operator	: ACM	Seq. Line :	10
Acq. Instrument	: AG3-6890N	Location :	Vial 8
Injection Date	: 2/9/2012 4:00:34 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

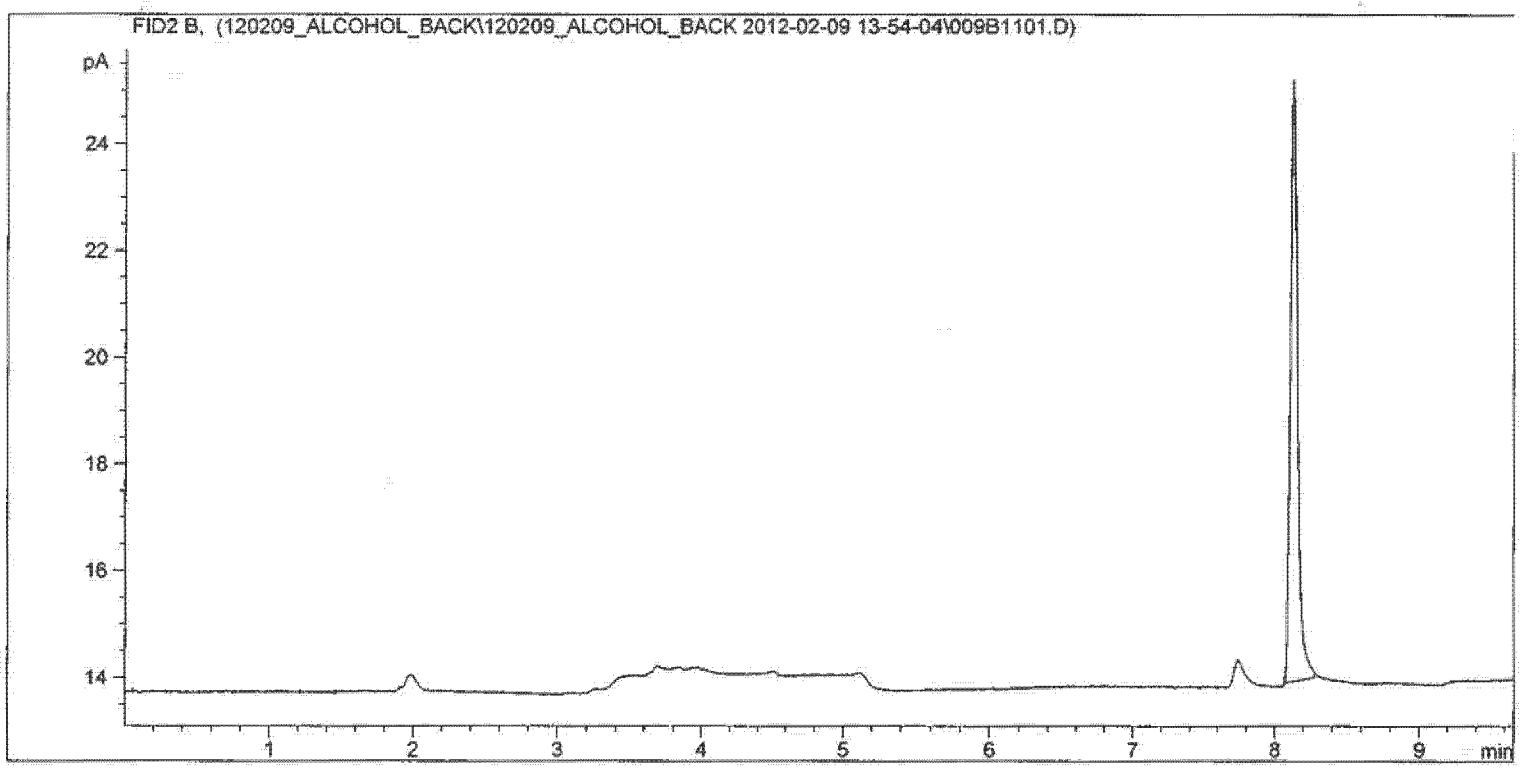
==========

*** End of Report ***

Acm

Data File C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\009B1101.D
Sample Name: 1202003-03

Acq. Operator	: ACM	Seq. Line	: 11
Acq. Instrument	: AG3-6890N	Location	: Vial 9
Injection Date	: 2/9/2012 4:14:19 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

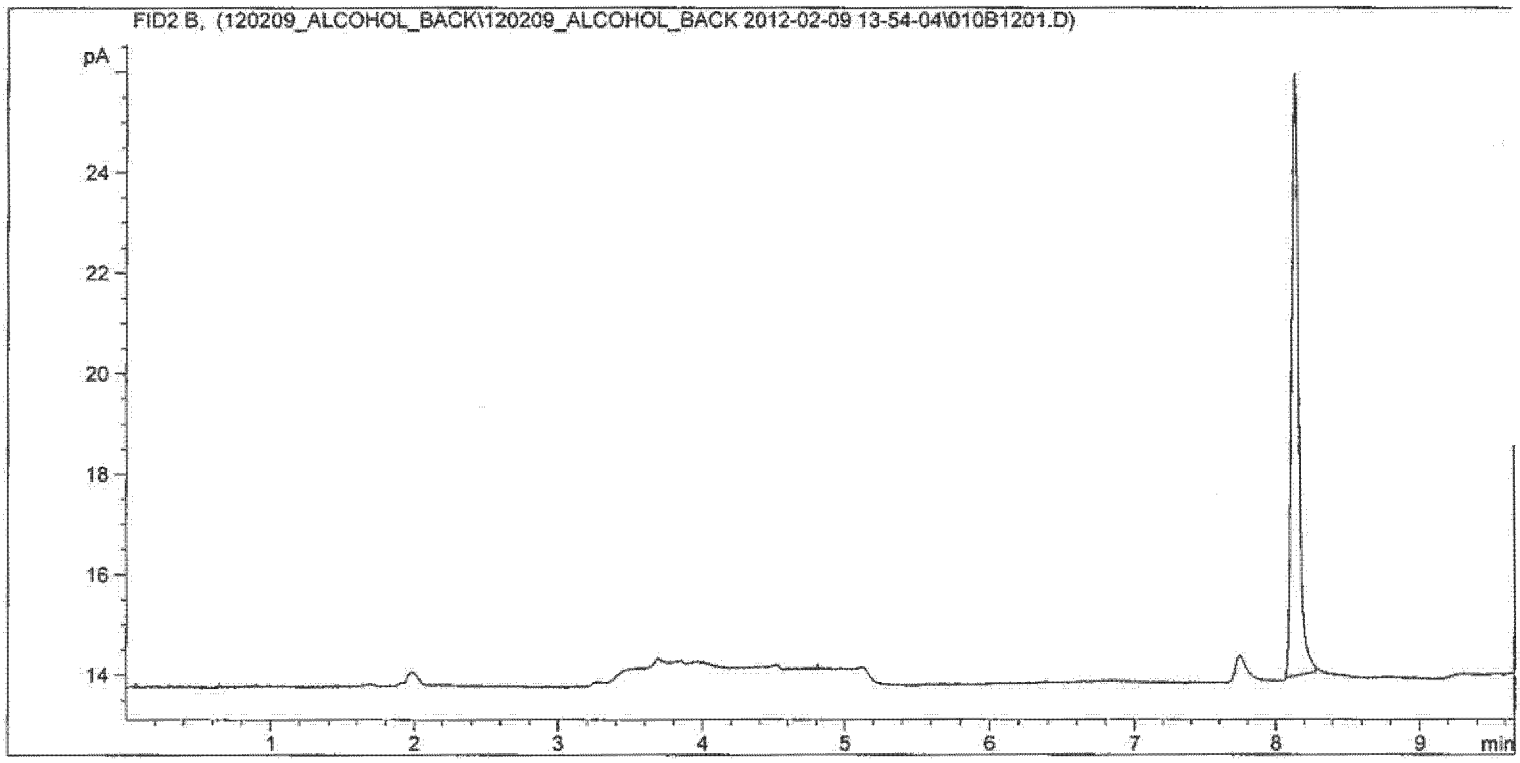
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

ACM

Acq. Operator	: ACM	Seq. Line	: 12
Acq. Instrument	: AG3-6890N	Location	: Vial 10
Injection Date	: 2/9/2012 4:28:03 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acn

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

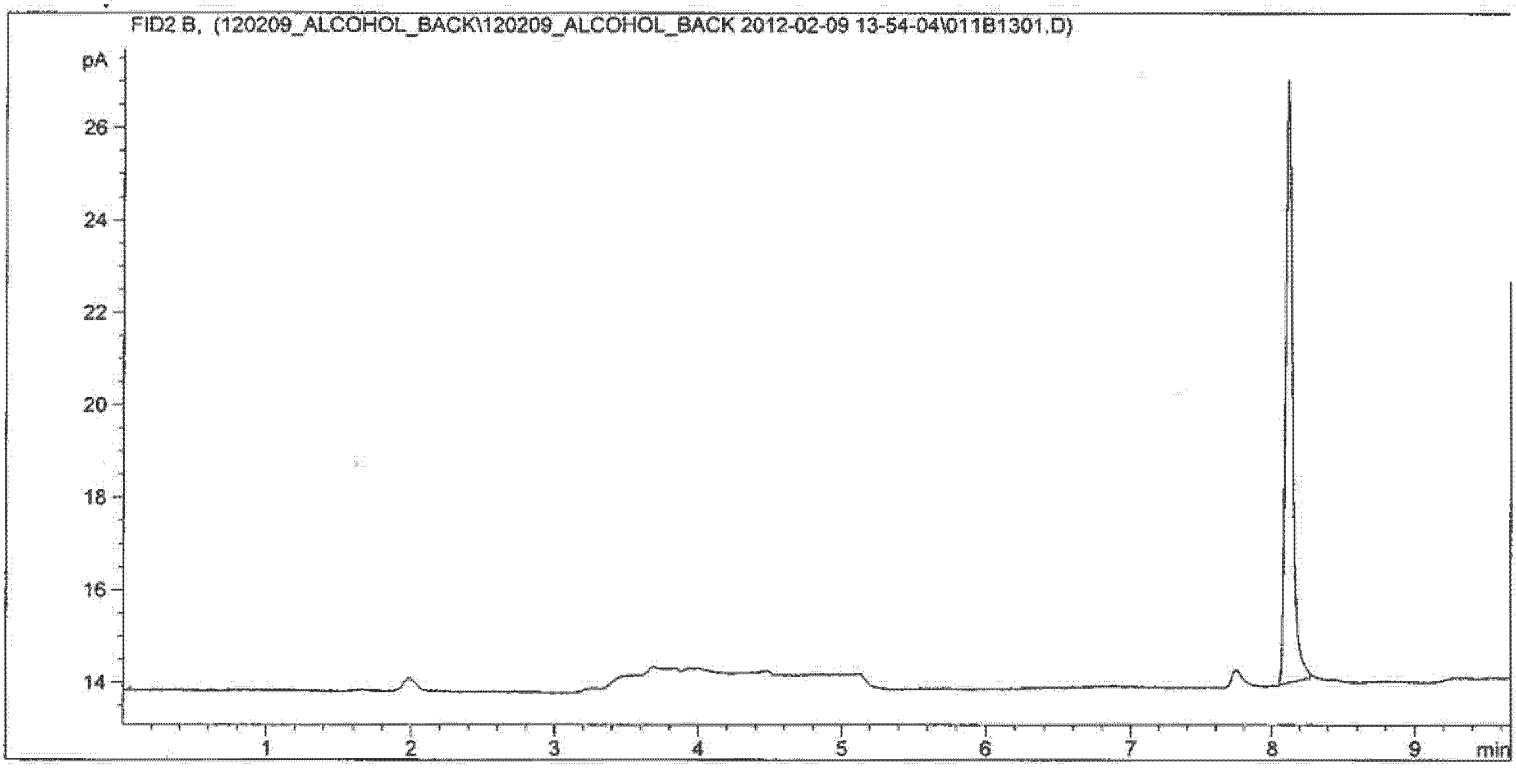
*** End of Report ***

Am

Data File C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\011B1301.D
Sample Name: 1202003-05

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 4:41:48 PM
Seq. Line : 13
Location : Vial 11
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

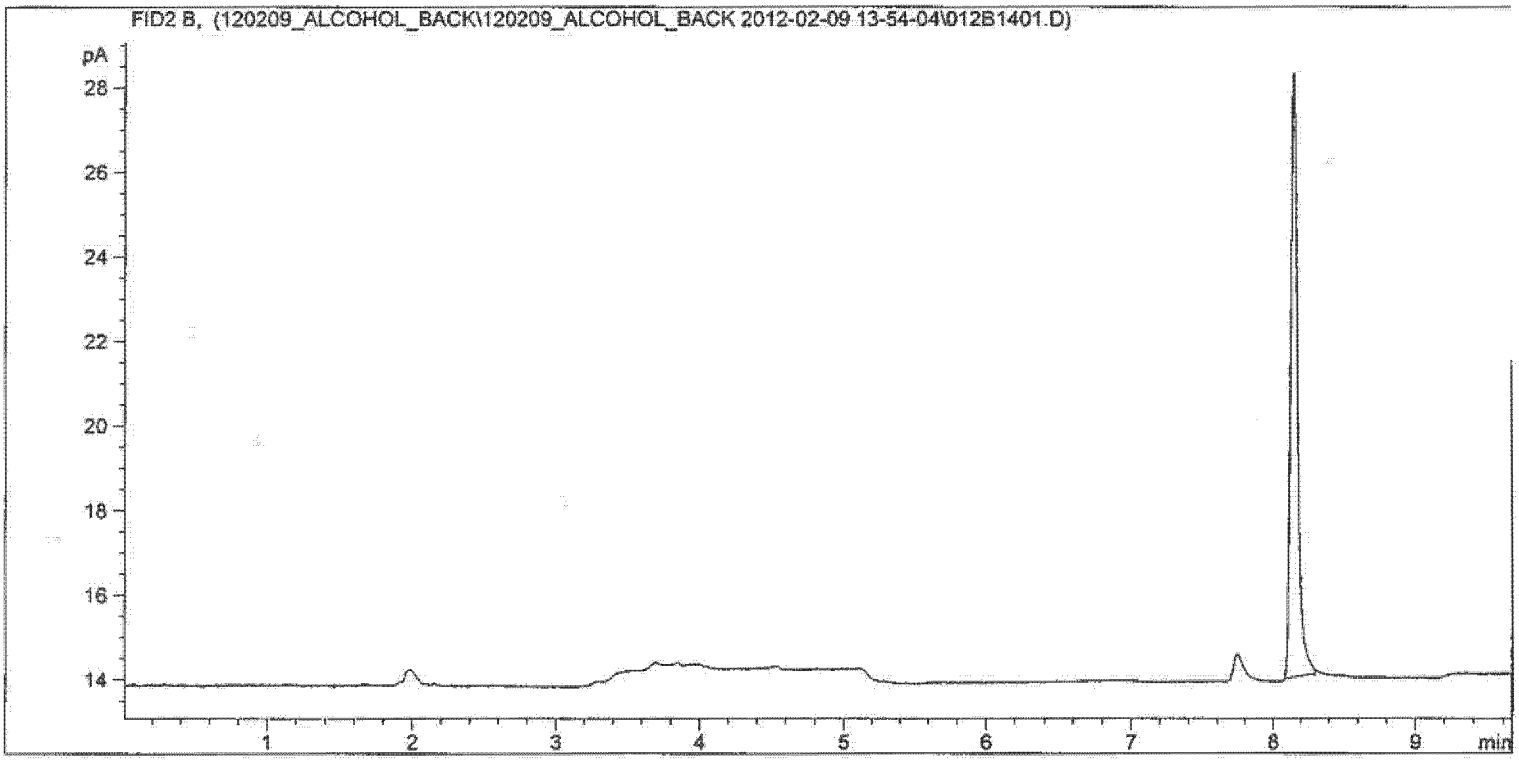
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

ACM

Acq. Operator	: ACM	Seq. Line :	14
Acq. Instrument	: AG3-6890N	Location :	Vial 12
Injection Date	: 2/9/2012 4:55:32 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

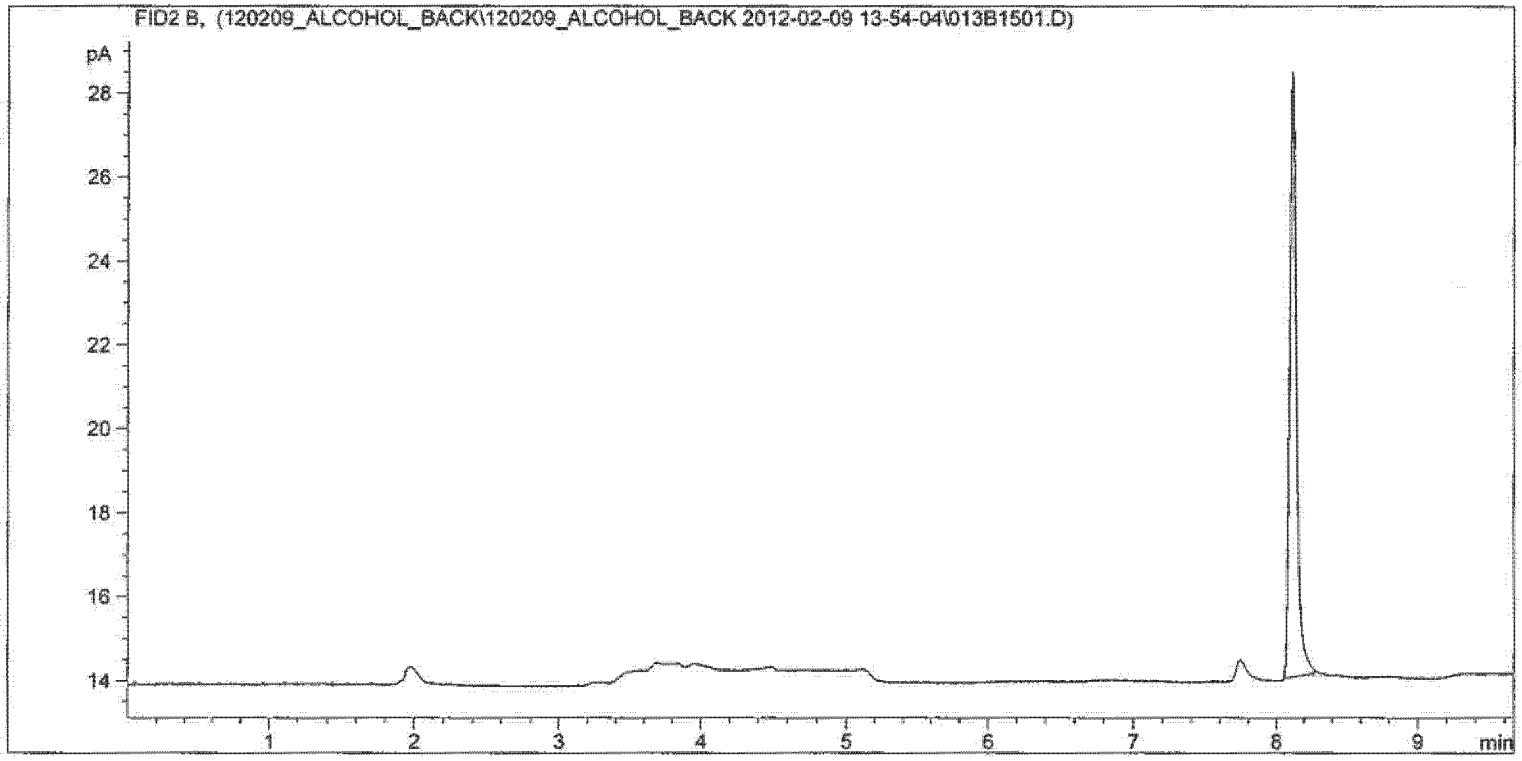
==========

*** End of Report ***

Acm

Data File C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\013B1501.D
Sample Name: 1202003-14

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 13
Injection Date	: 2/9/2012 5:09:15 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

AM

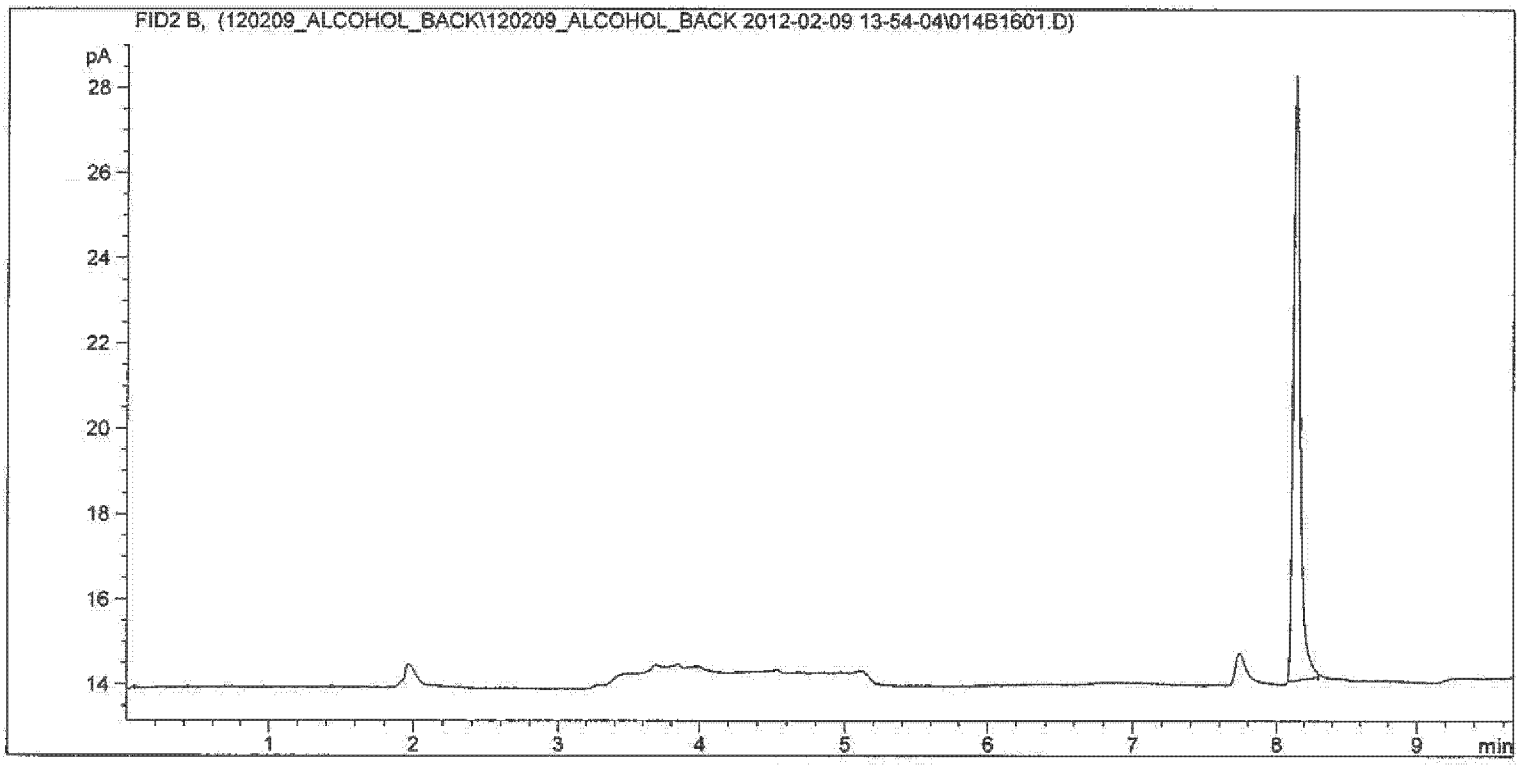
Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\014B1601.D
Sample Name: 1202003-15

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 5:22:59 PM

Seq. Line : 16
Location : Vial 14
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M
Last changed : 2/10/2012 11:20:35 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Sample Name: 1202003-15

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

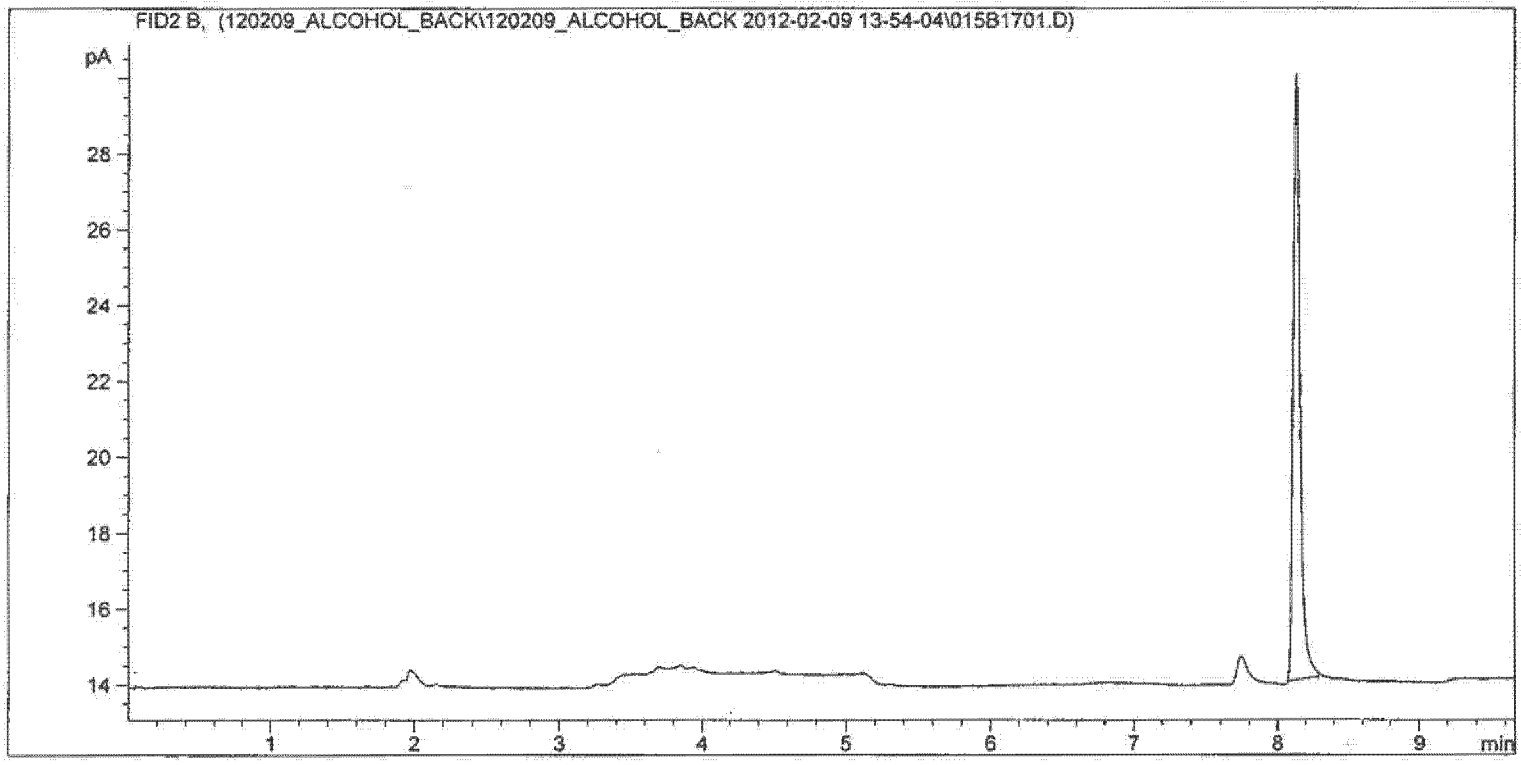
==========

*** End of Report ***

ACM

Data File C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\015B1701.D
Sample Name: 1202003-16

Acq. Operator	: ACM	Seq. Line	: 17
Acq. Instrument	: AG3-6890N	Location	: Vial 15
Injection Date	: 2/9/2012 5:36:44 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Sample Name: 1202003-16

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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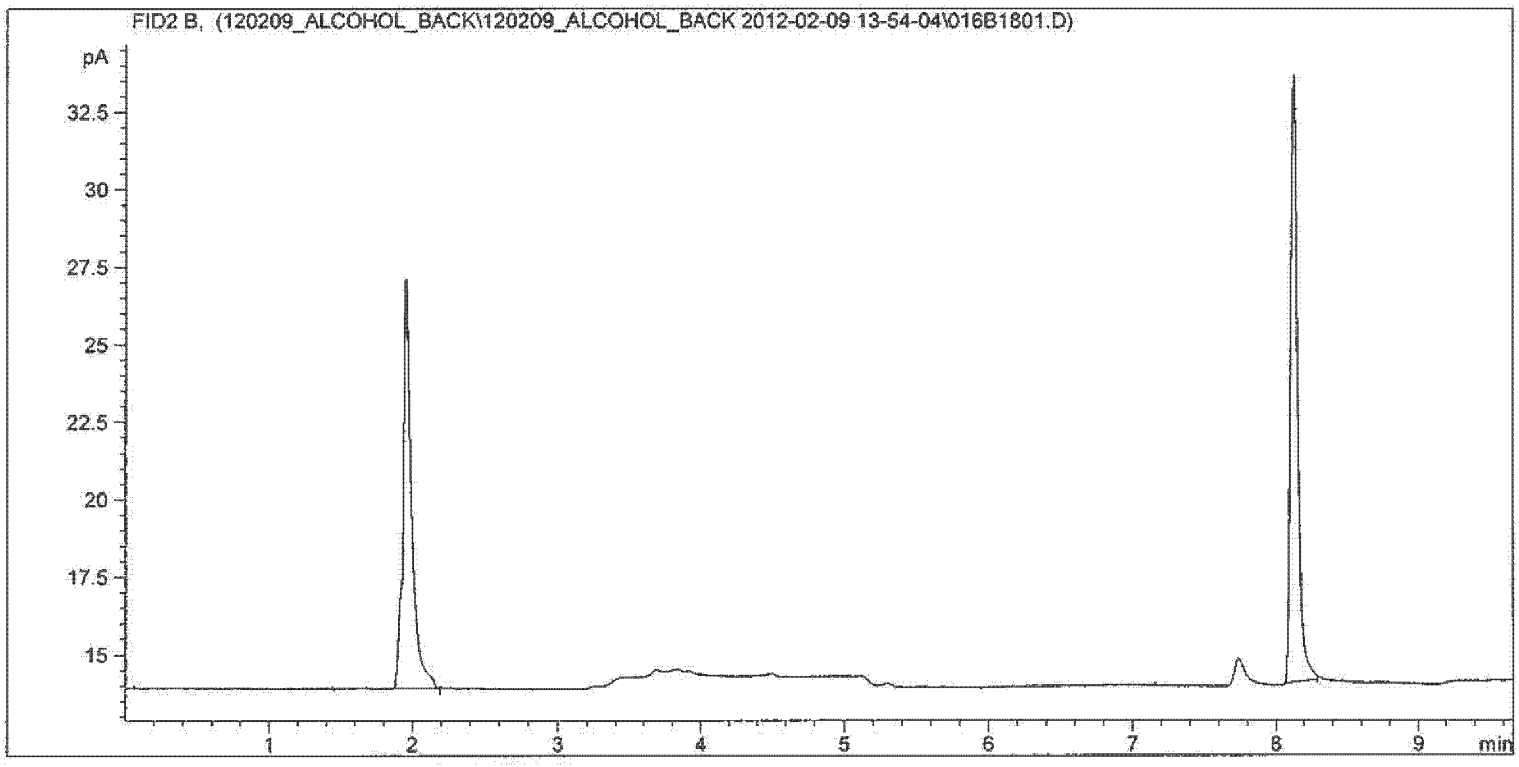
*** End of Report ***

Acm

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\016B1801.D
Sample Name: 1202003-17

Acq. Operator	: ACM	Seq. Line :	18
Acq. Instrument	: AG3-6890N	Location :	Vial 16
Injection Date	: 2/9/2012 5:50:28 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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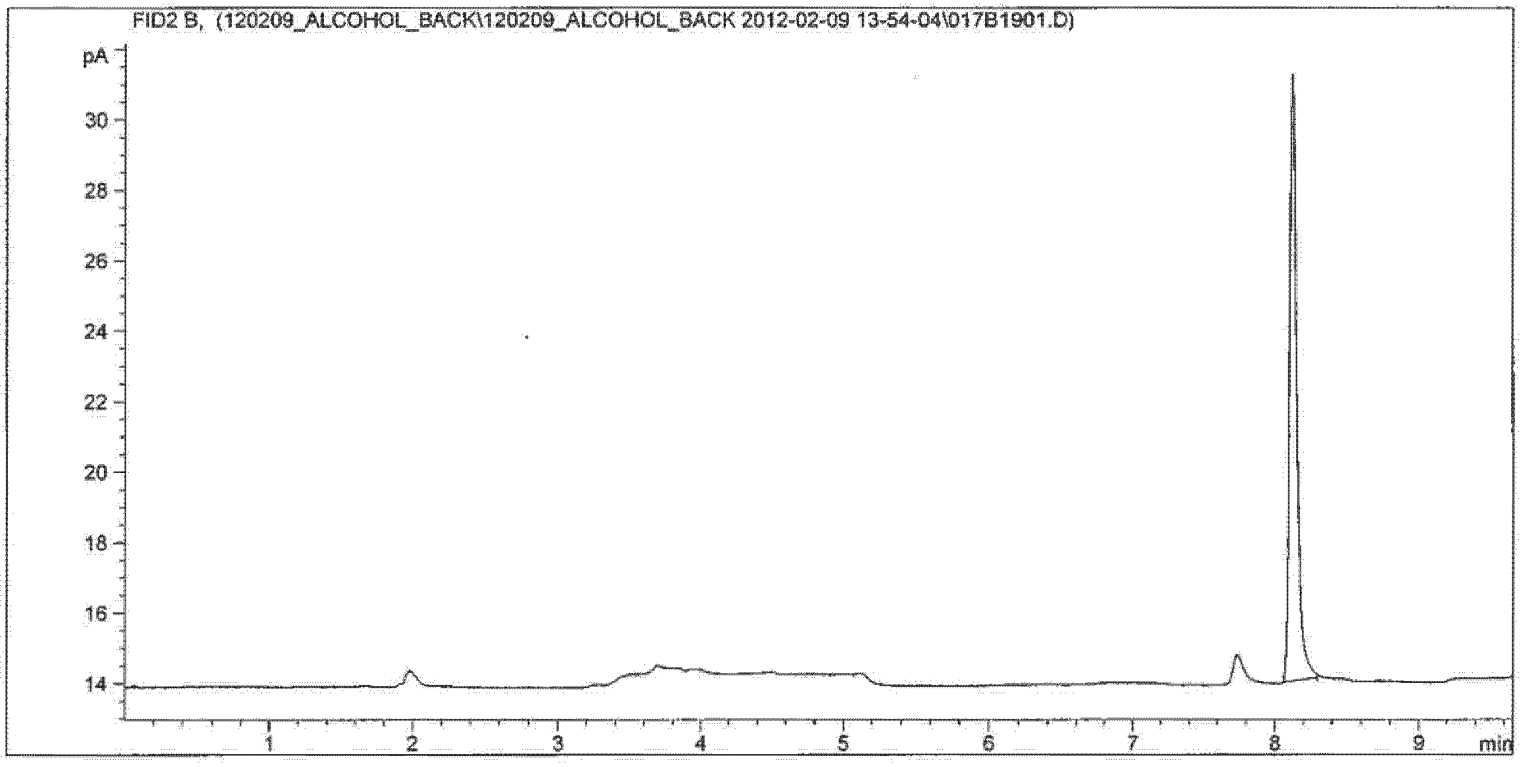
*** End of Report ***

ACM

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\017B1901.D
Sample Name: 1202003-18

Acq. Operator	: ACM	Seq. Line	: 19
Acq. Instrument	: AG3-6890N	Location	: Vial 17
Injection Date	: 2/9/2012 6:04:12 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEMSTE\...\1202003_ALCOHOL_BRGR\1202003_ALCOHOL_BRGR 2012-02-09 15-54-04\017B1901.D
Sample Name: 1202003-18

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Aem

Sample Name: 1202003-19

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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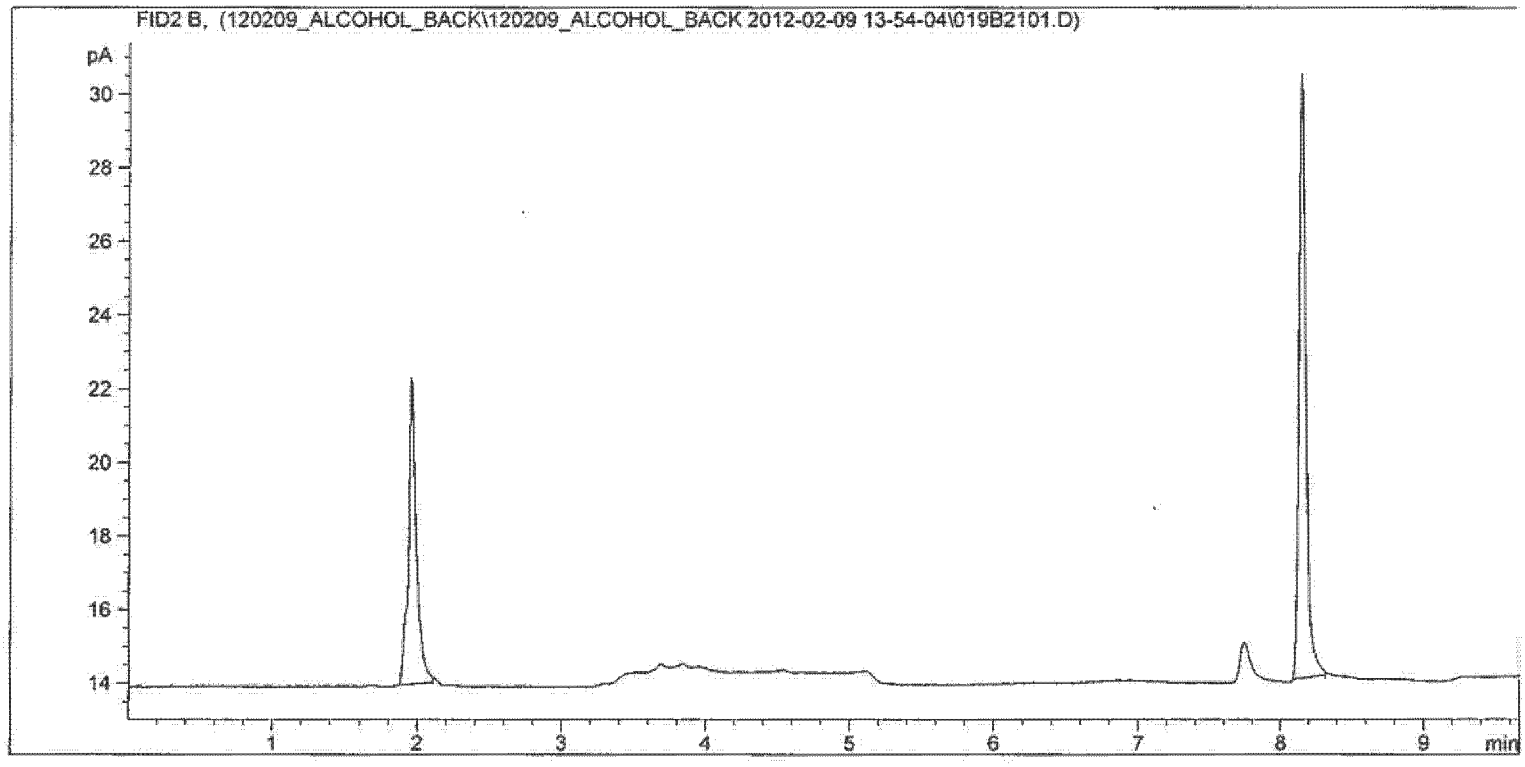
*** End of Report ***

Acm

Data File C:\CHEM32\...209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\019B2101.D
Sample Name: 1202003-20

Acq. Operator	: ACM	Seq. Line :	21
Acq. Instrument	: AG3-6890N	Location :	Vial 19
Injection Date	: 2/9/2012 6:31:39 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_BACK\120209_ALCOHOL_BACK 2012-02-09 13-54-04\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120209.M		
Last changed	: 2/10/2012 11:20:35 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.082		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/10/2012 11:20:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.082		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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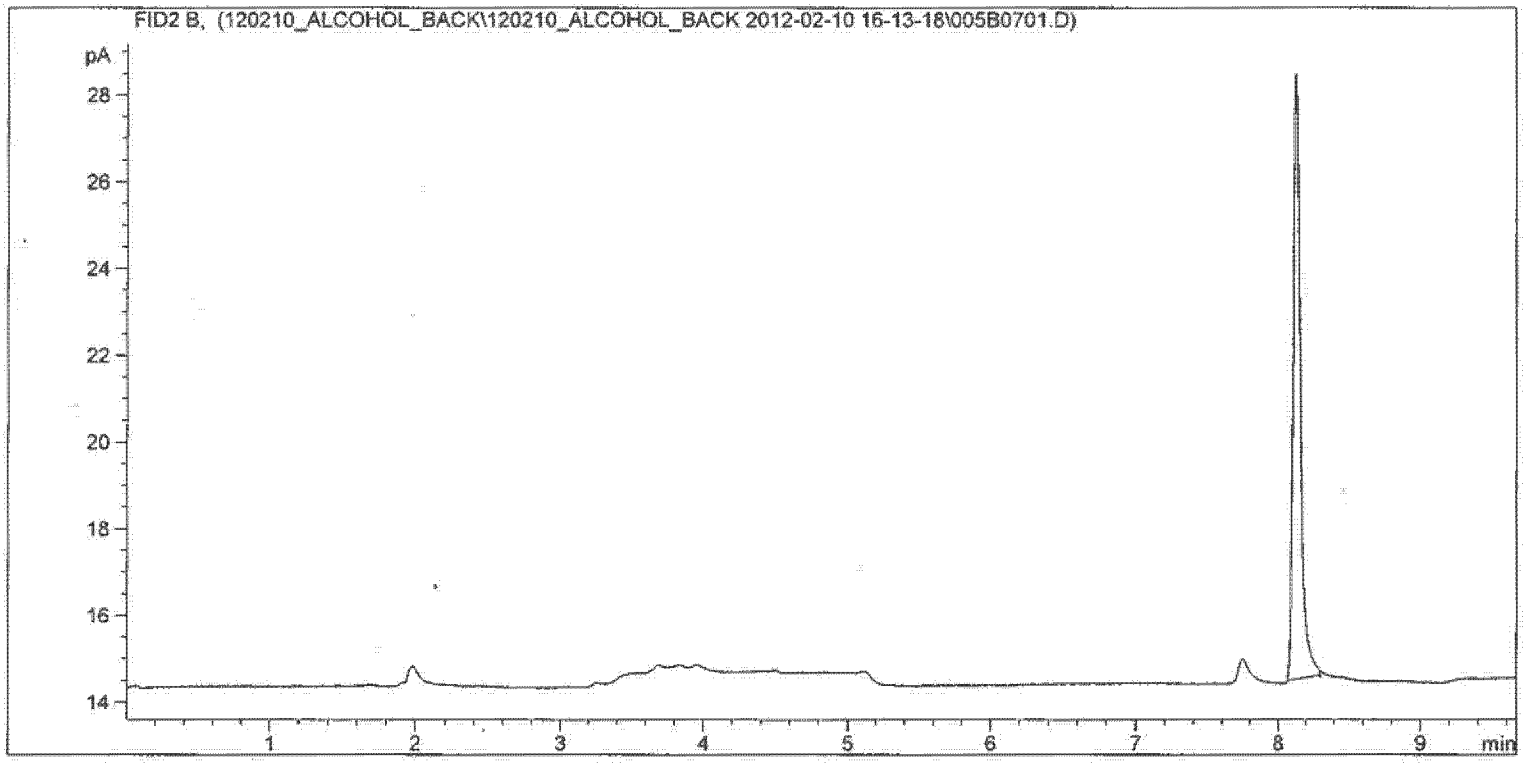
*** End of Report ***

Aem

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/10/2012 5:38:28 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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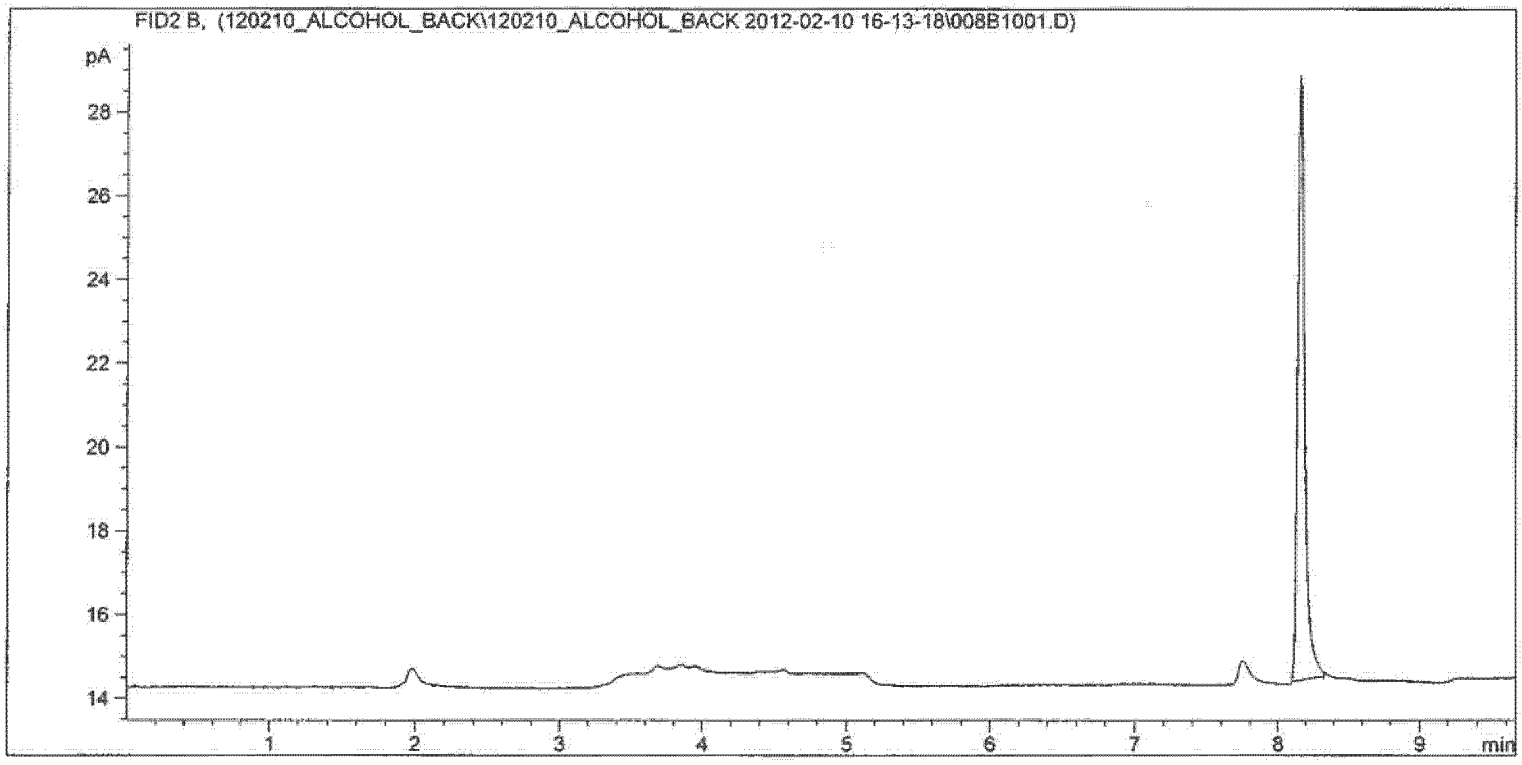
*** End of Report ***

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\008B1001.D
Sample Name: 1202003-33

Acq. Operator	: ACM	Seq. Line :	10
Acq. Instrument	: AG3-6890N	Location :	Vial 8
Injection Date	: 2/10/2012 6:19:39 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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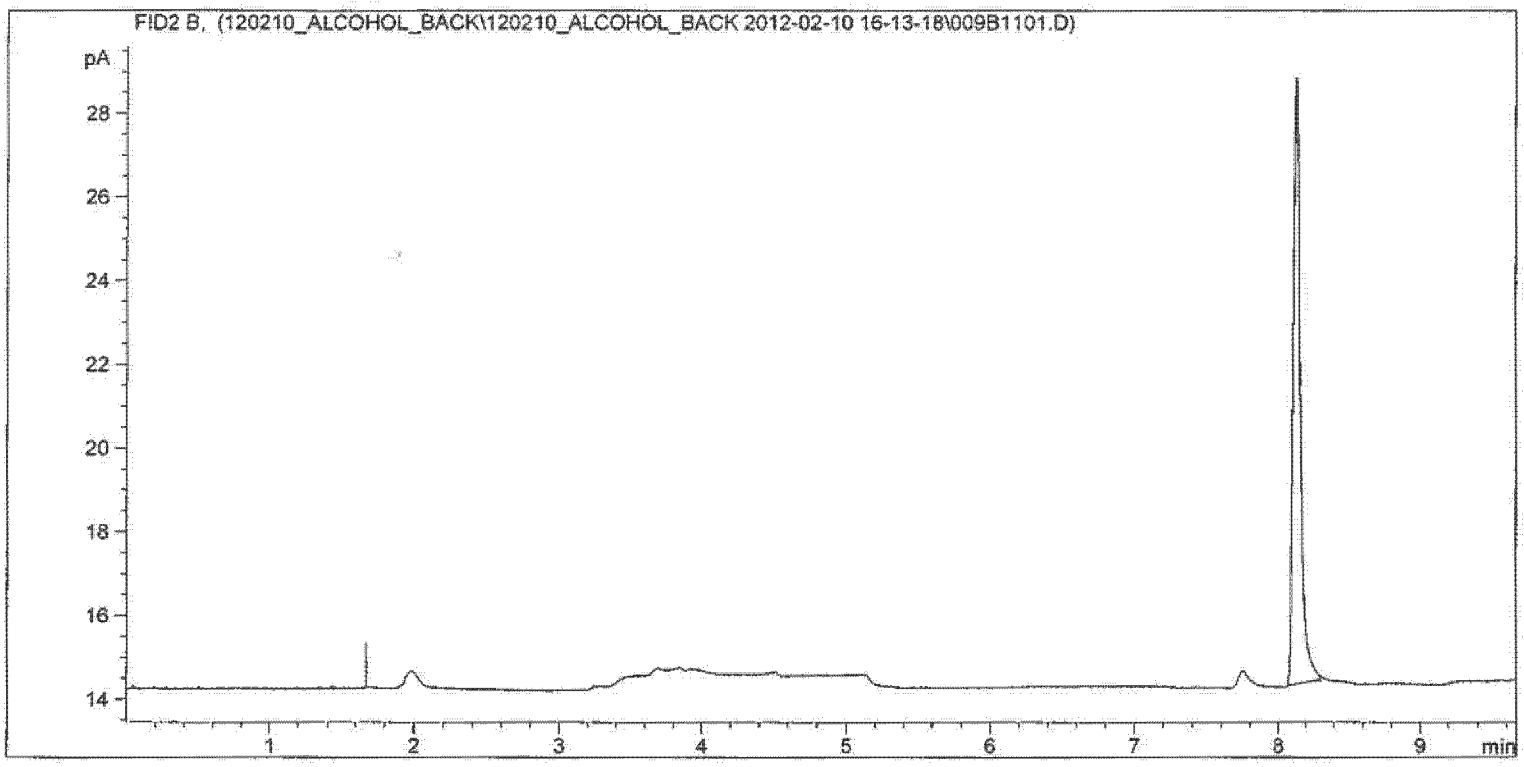
*** End of Report ***

Am

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\009B1101.D
Sample Name: 1202003-34

Acq. Operator	: ACM	Seq. Line	: 11
Acq. Instrument	: AG3-6890N	Location	: Vial 9
Injection Date	: 2/10/2012 6:33:21 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Acm

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\010B1201.D
Sample Name: 1202003-35

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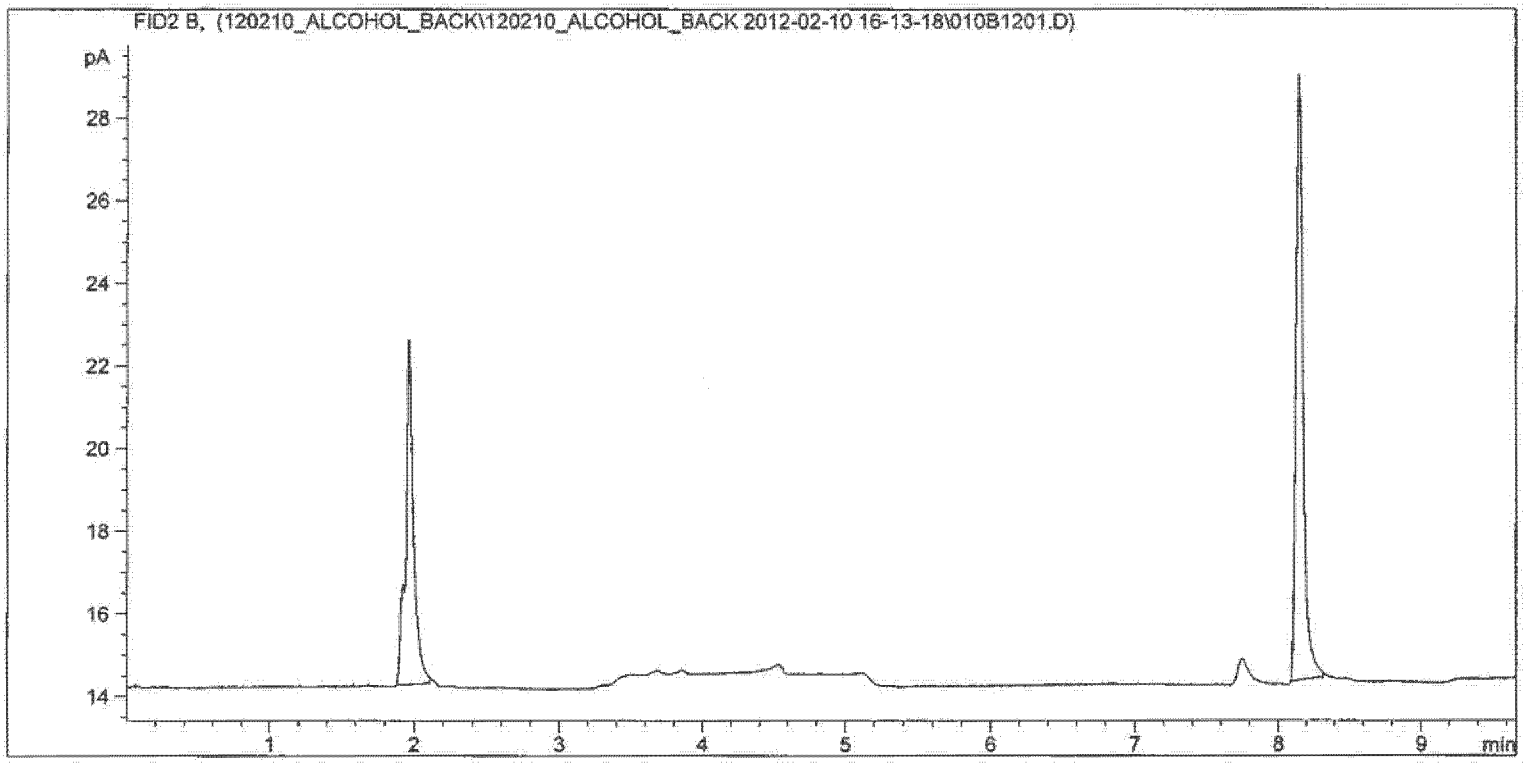
Acq. Operator : ACM
Seq. Line : 12
Acq. Instrument : AG3-6890N
Location : Vial 10
Injection Date : 2/10/2012 6:47:05 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M
Last changed : 2/15/2012 3:48:50 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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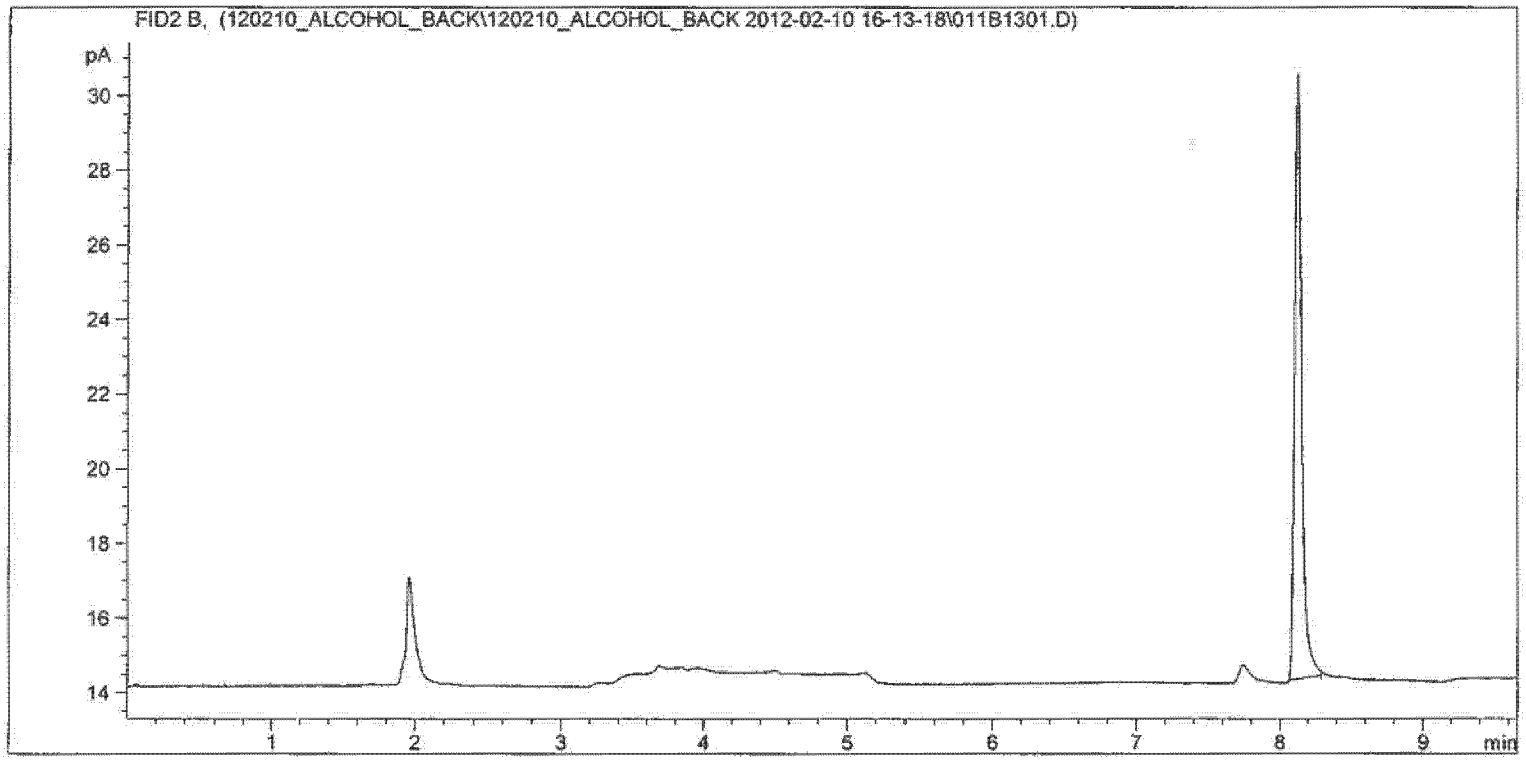
*** End of Report ***

Acm

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\011B1301.D
Sample Name: 1202003-36

Acq. Operator	: ACM	Seq. Line	: 13
Acq. Instrument	: AG3-6890N	Location	: Vial 11
Injection Date	: 2/10/2012 7:00:48 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

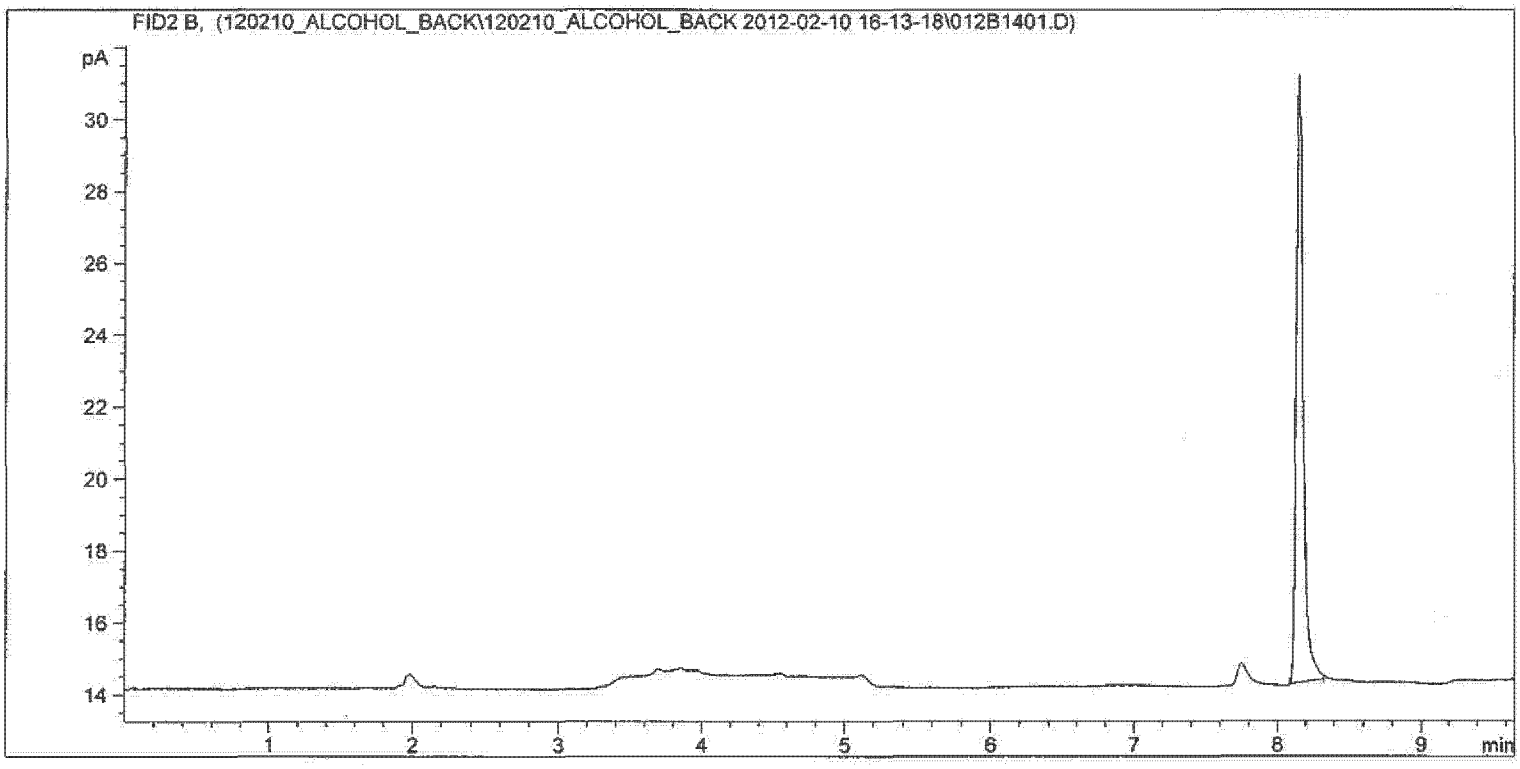
==========

*** End of Report ***

Acm

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\012B1401.D
Sample Name: 1202003-37

Acq. Operator	: ACM	Seq. Line	: 14
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 2/10/2012 7:14:32 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

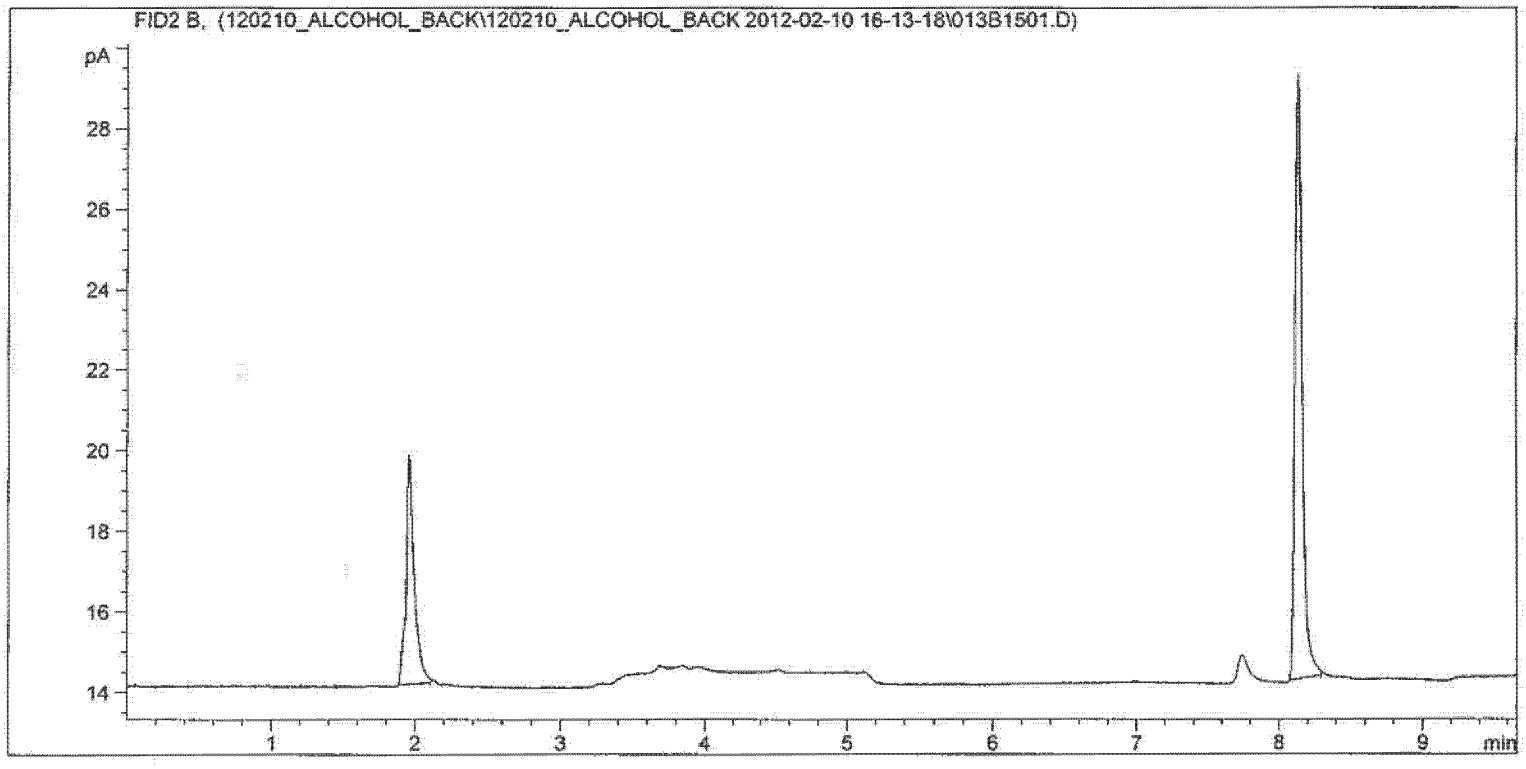
==========

*** End of Report ***

Acm

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\013B1501.D
Sample Name: 1202003-38

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 13
Injection Date	: 2/10/2012 7:28:15 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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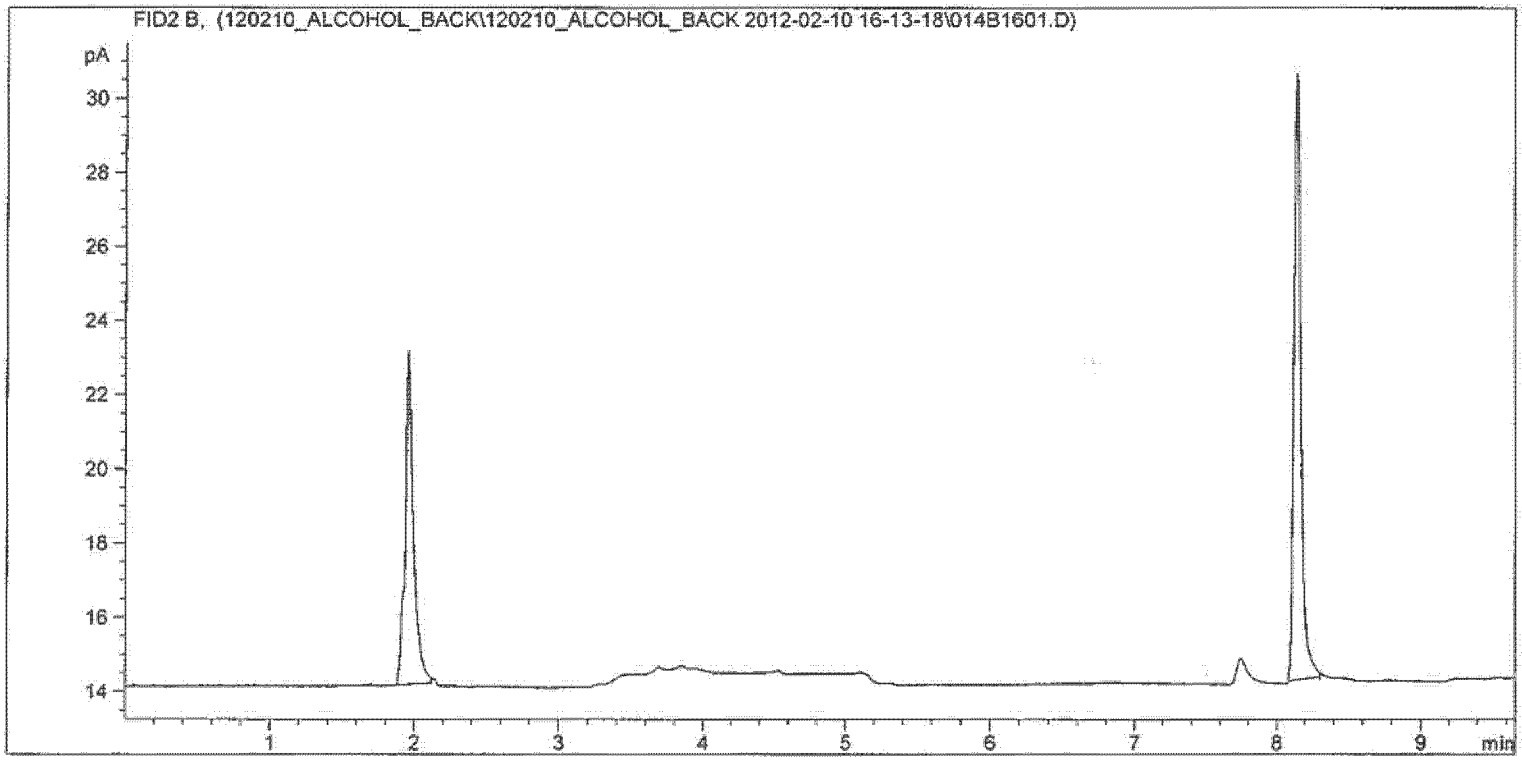
*** End of Report ***

Acm

Data File C:\CHEM32\...210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\014B1601.D
Sample Name: 1202003-39

Acq. Operator	: ACM	Seq. Line :	16
Acq. Instrument	: AG3-6890N	Location :	Vial 14
Injection Date	: 2/10/2012 7:42:00 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_BACK\120210_ALCOHOL_BACK 2012-02-10 16-13-18\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120210.M		
Last changed	: 2/15/2012 3:48:50 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aem

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Am

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\005F0701.D
Sample Name: 1202003-01

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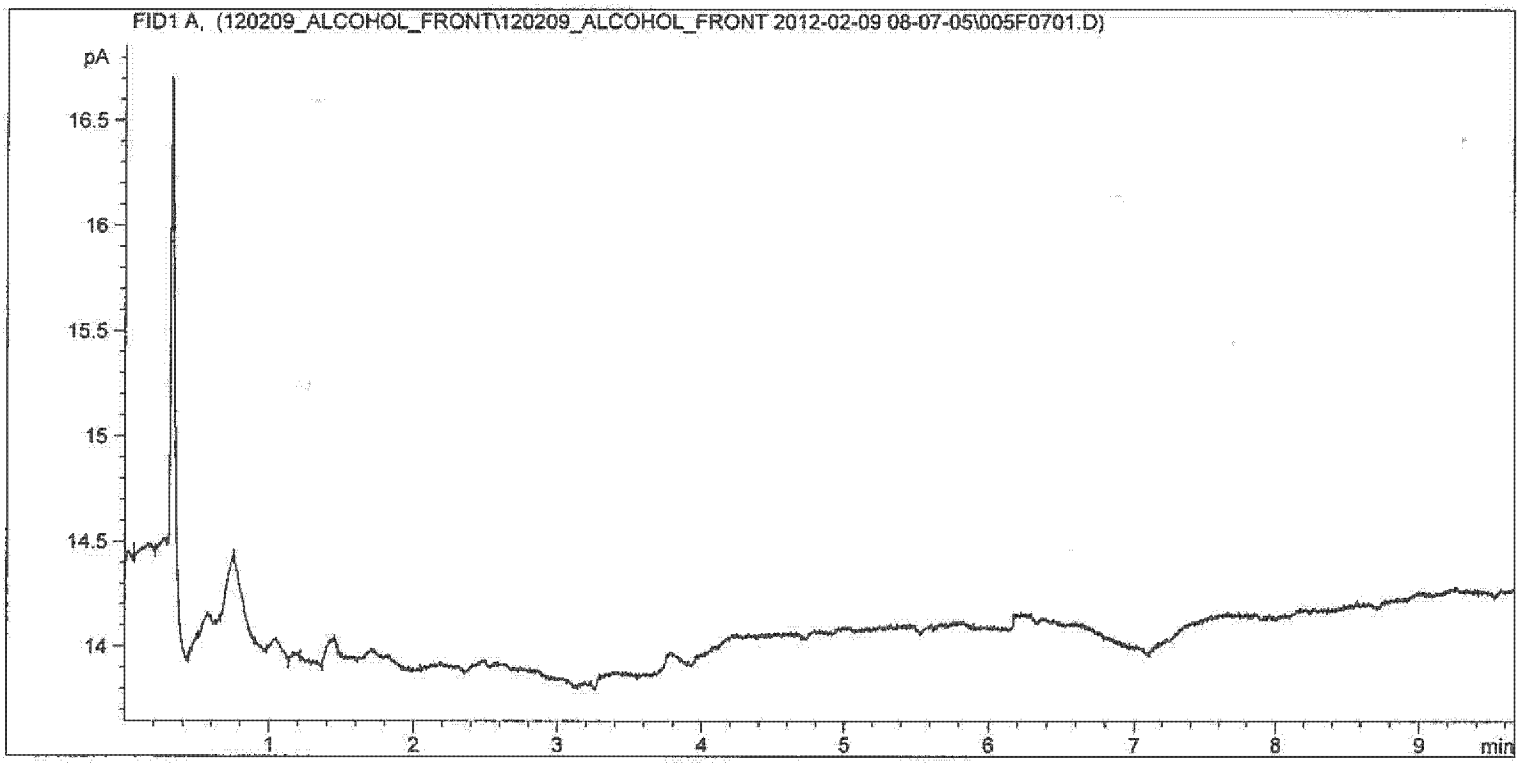
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 9:32:56 AM
Seq. Line : 7
Location : Vial 5
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

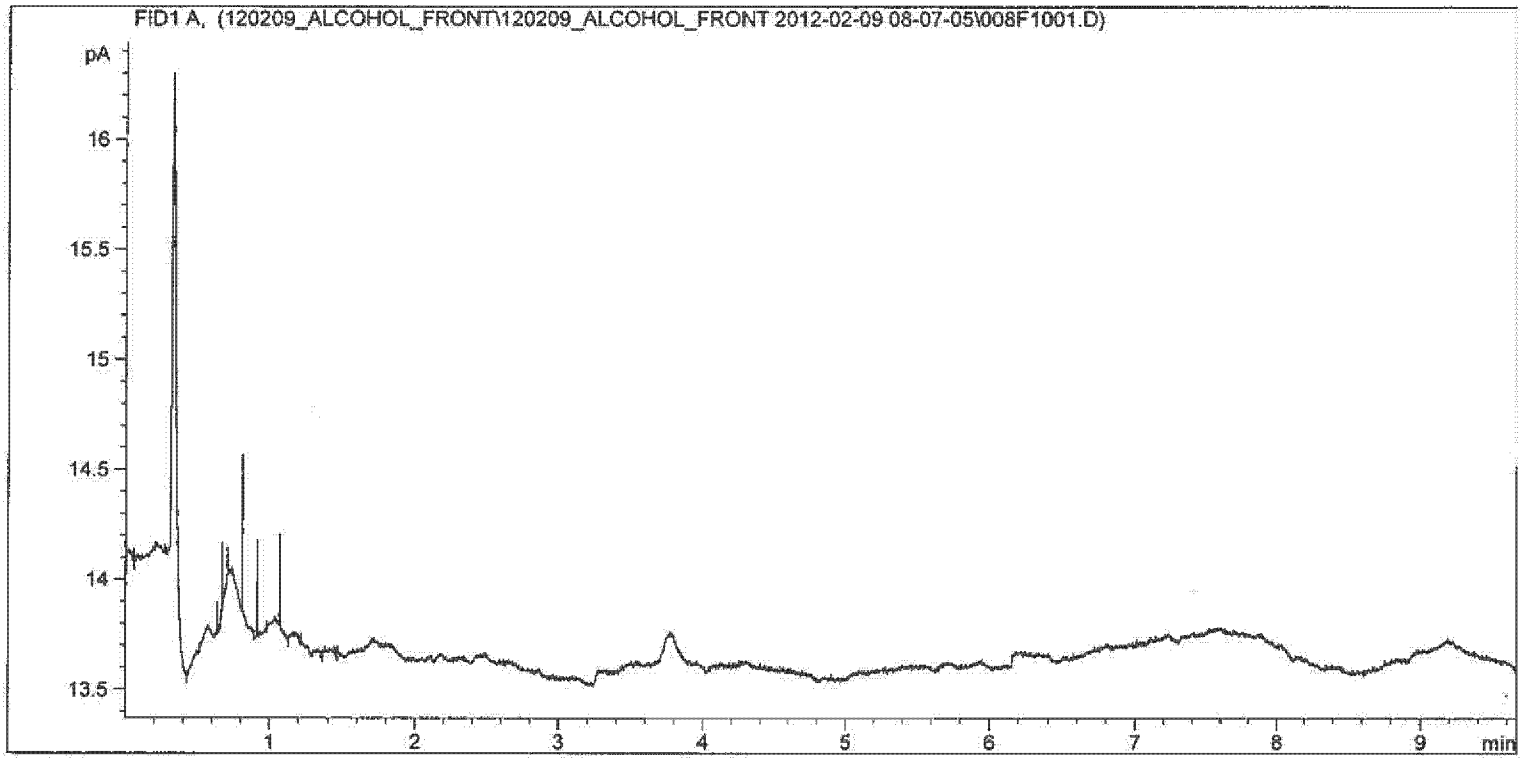
==========

*** End of Report ***

ACM

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\008F1001.D
Sample Name: 1202003-02

Acq. Operator	: ACM	Seq. Line	: 10
Acq. Instrument	: AG3-6890N	Location	: Vial 8
Injection Date	: 2/9/2012 10:14:26 AM	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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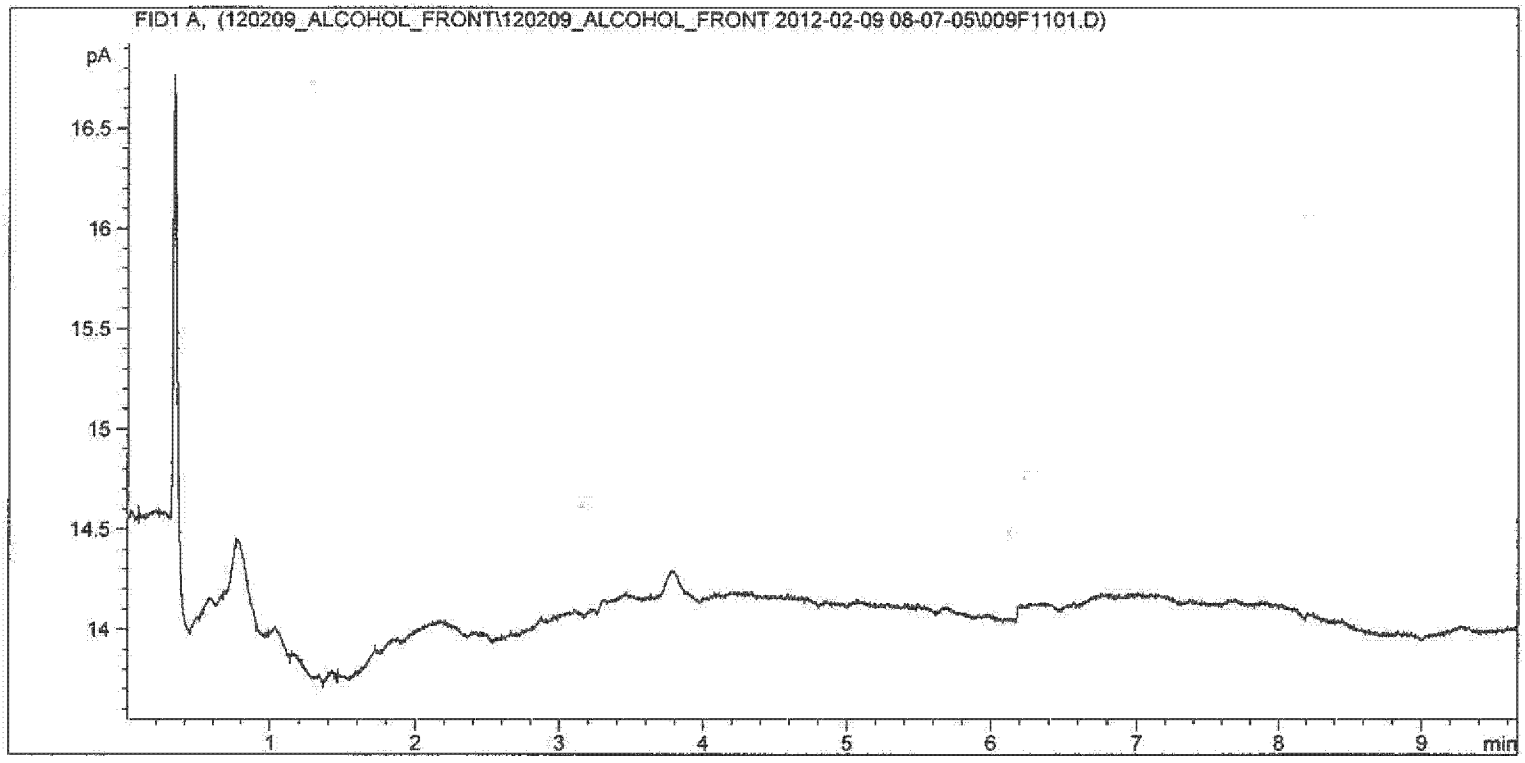
*** End of Report ***

Am

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\009F1101.D
Sample Name: 1202003-03

==========

Acq. Operator : ACM
Seq. Line : 11
Acq. Instrument : AG3-6890N
Location : Vial 9
Injection Date : 2/9/2012 10:28:15 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

An

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\010F1201.D
Sample Name: 1202003-04

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 10:42:05 AM
Seq. Line : 12
Location : Vial 10
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Sample Name: 1202003-04

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Acr

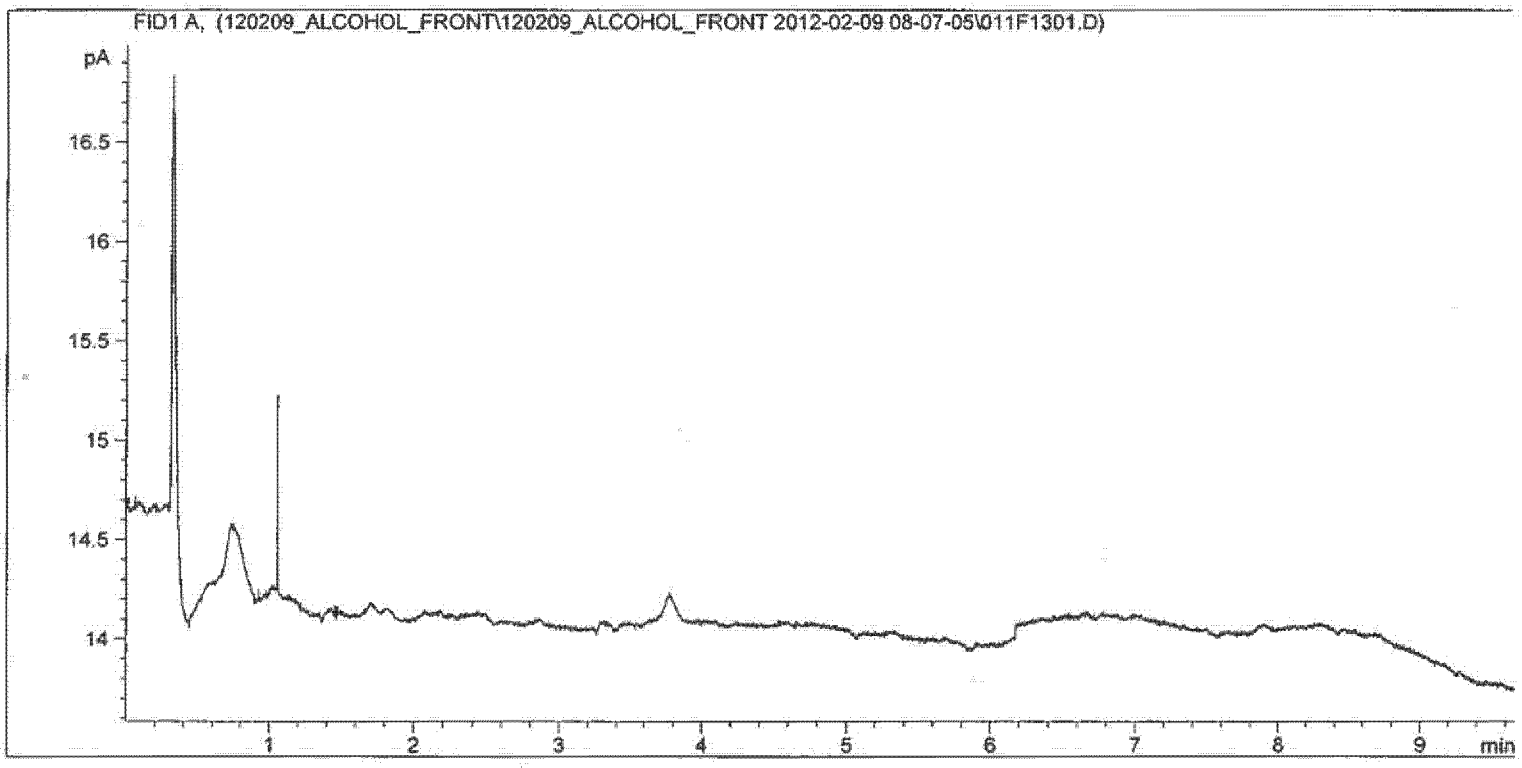
Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\011F1301.D
Sample Name: 1202003-05

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/9/2012 10:55:54 AM

Seq. Line : 13
Location : Vial 11
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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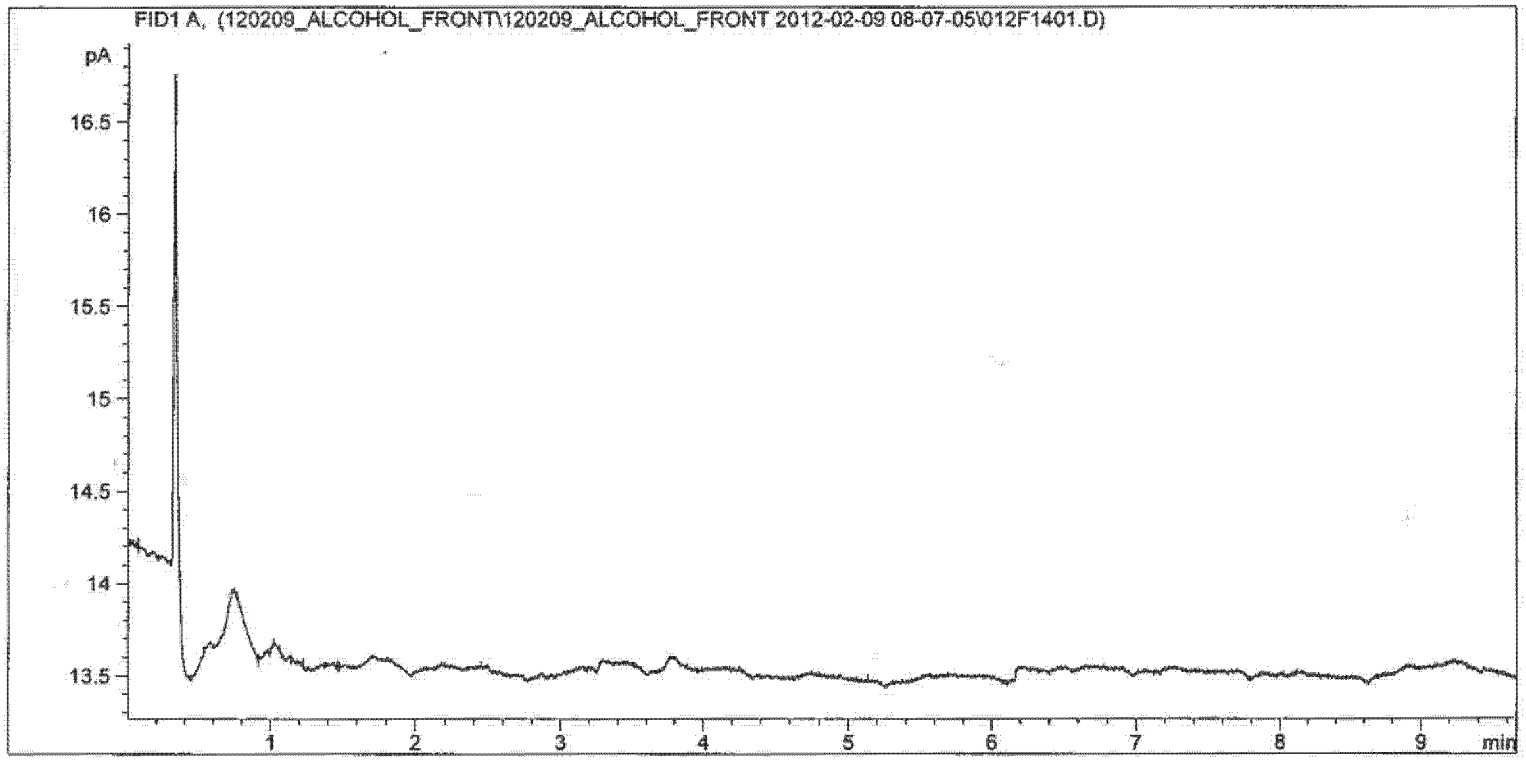
*** End of Report ***

Acm

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\012F1401.D
Sample Name: 1202003-13

Acq. Operator	: ACM	Seq. Line	: 14
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 2/9/2012 11:09:43 AM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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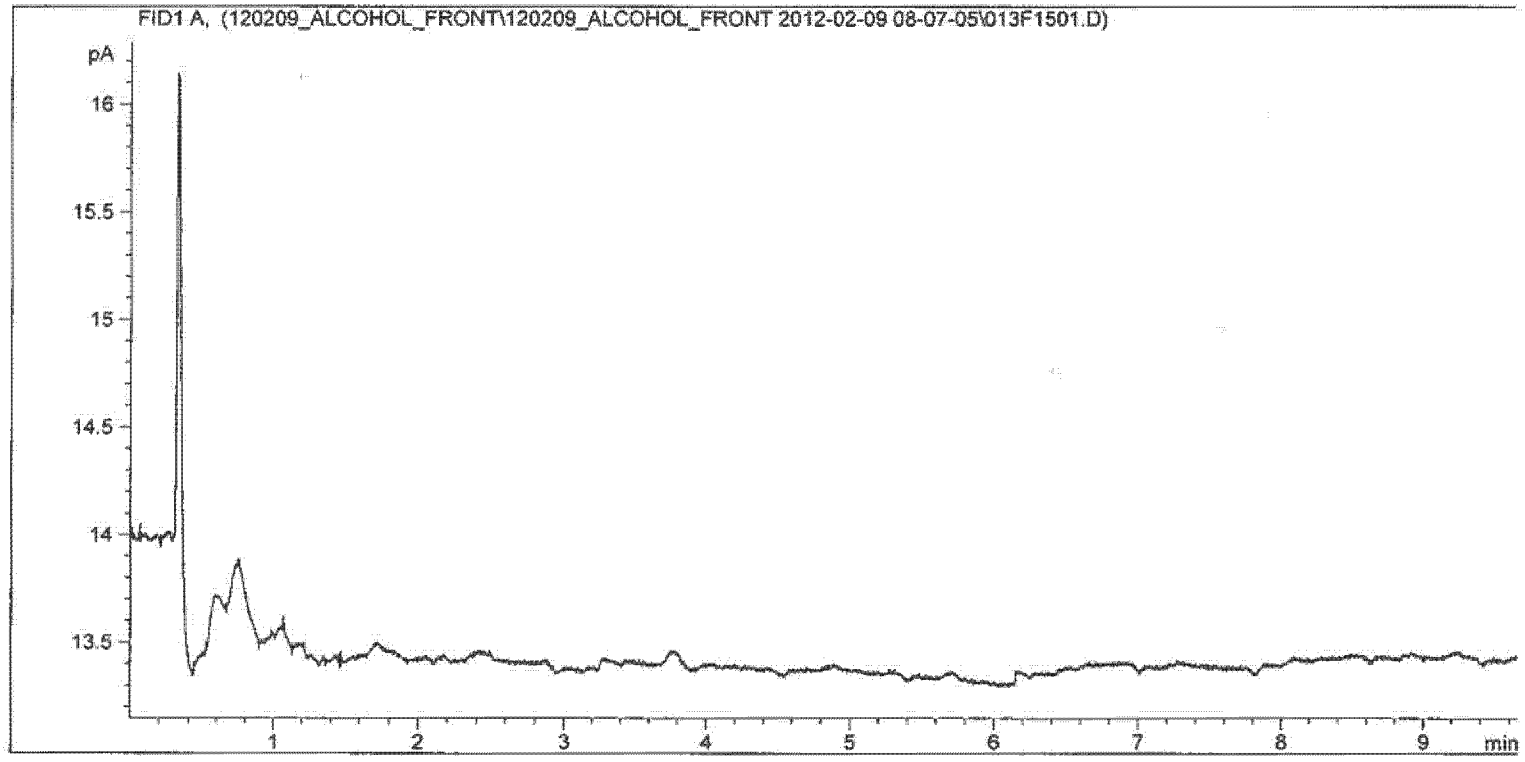
*** End of Report ***

Aem

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\013F1501.D
Sample Name: 1202003-14

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 13
Injection Date	: 2/9/2012 11:23:33 AM	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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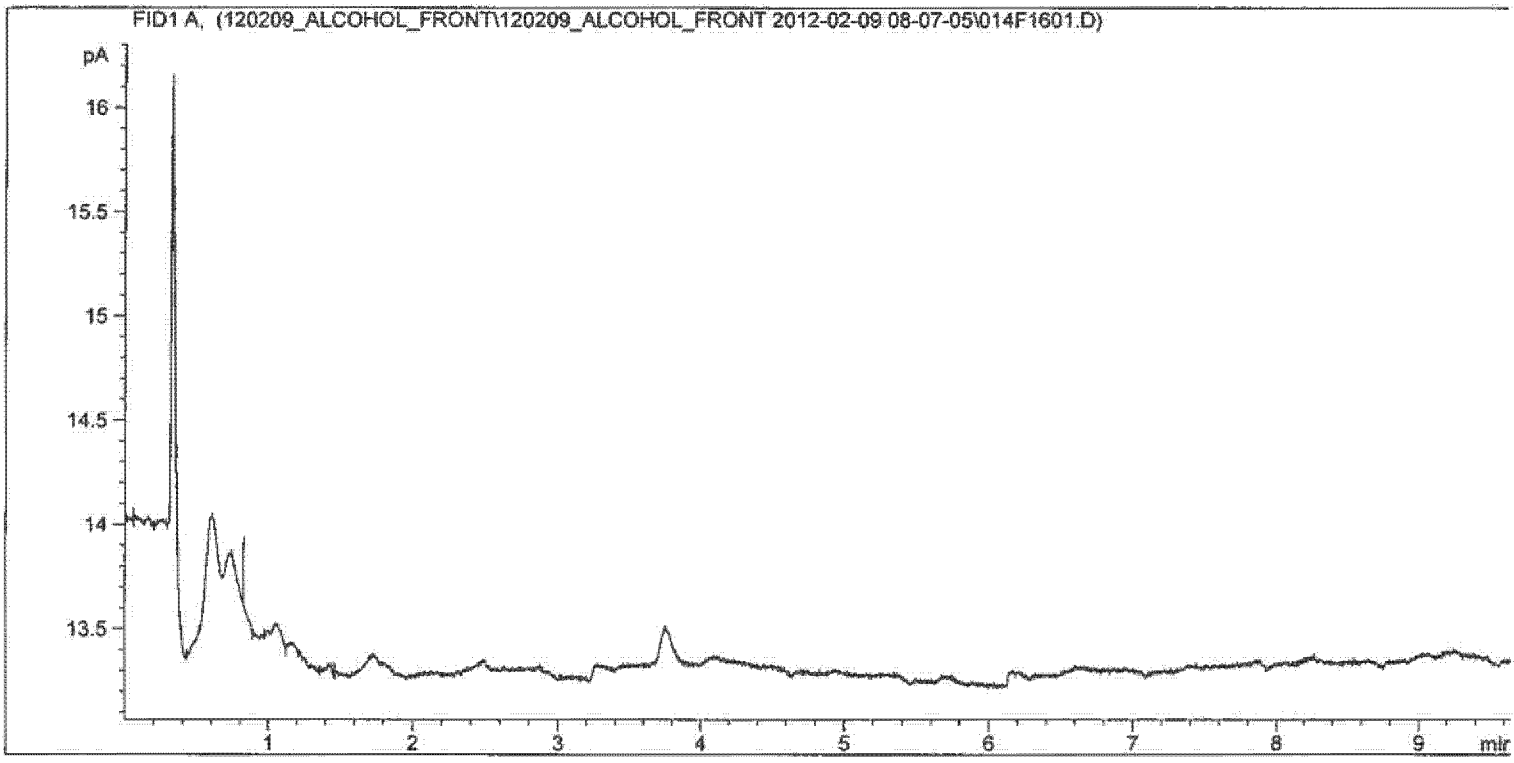
*** End of Report ***

N/D

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\014F1601.D
Sample Name: 1202003-15

Acq. Operator	: ACM	Seq. Line :	16
Acq. Instrument	: AG3-6890N	Location :	Vial 14
Injection Date	: 2/9/2012 11:37:23 AM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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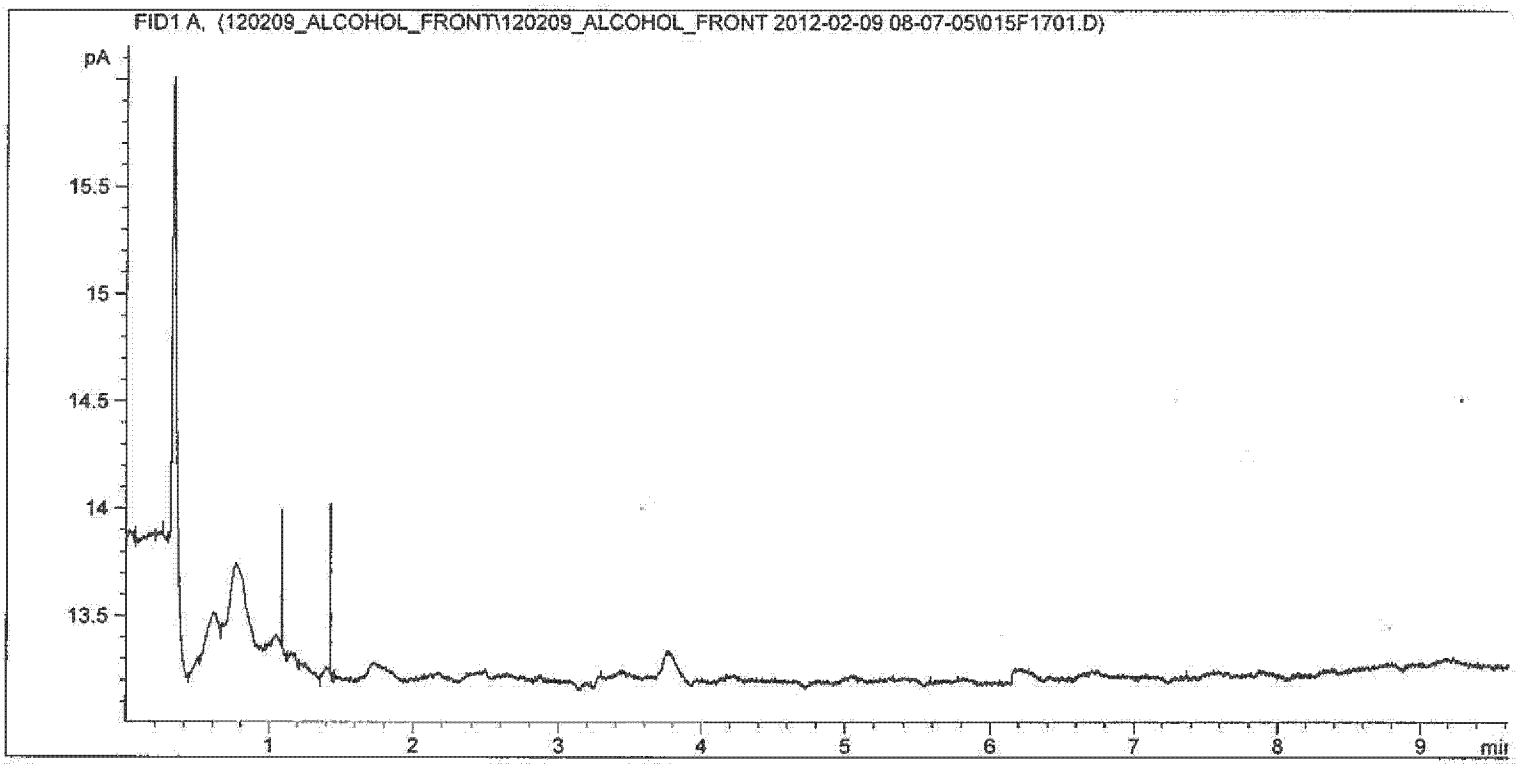
*** End of Report ***

ACM

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\015F1701.D
Sample Name: 1202003-16

Acq. Operator	: ACM	Seq. Line :	17
Acq. Instrument	: AG3-6890N	Location :	Vial 15
Injection Date	: 2/9/2012 11:51:13 AM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N|D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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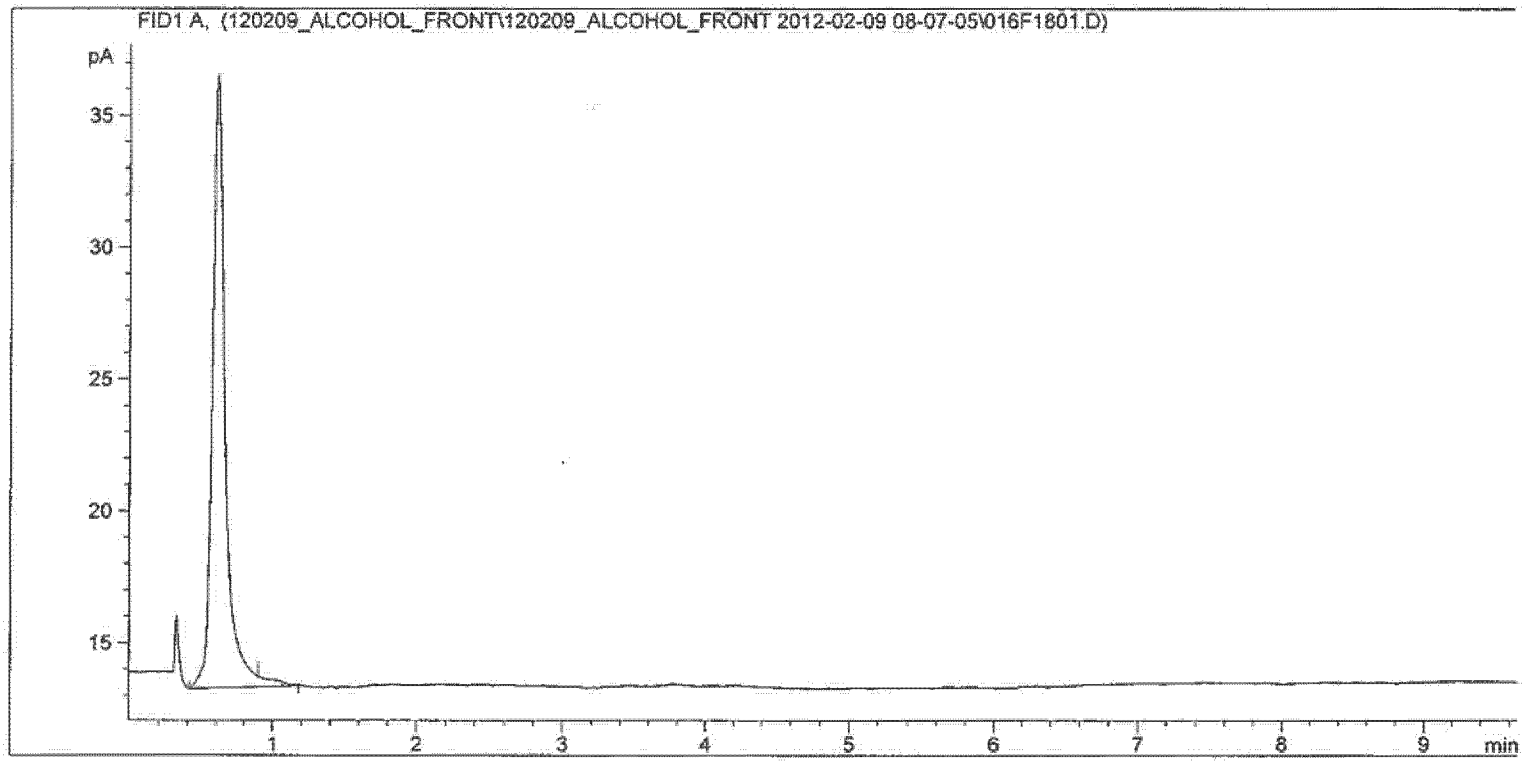
*** End of Report ***

Acm

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\016F1801.D
Sample Name: 1202003-17

Acq. Operator	: ACM	Seq. Line :	18
Acq. Instrument	: AG3-6890N	Location :	Vial 16
Injection Date	: 2/9/2012 12:05:02 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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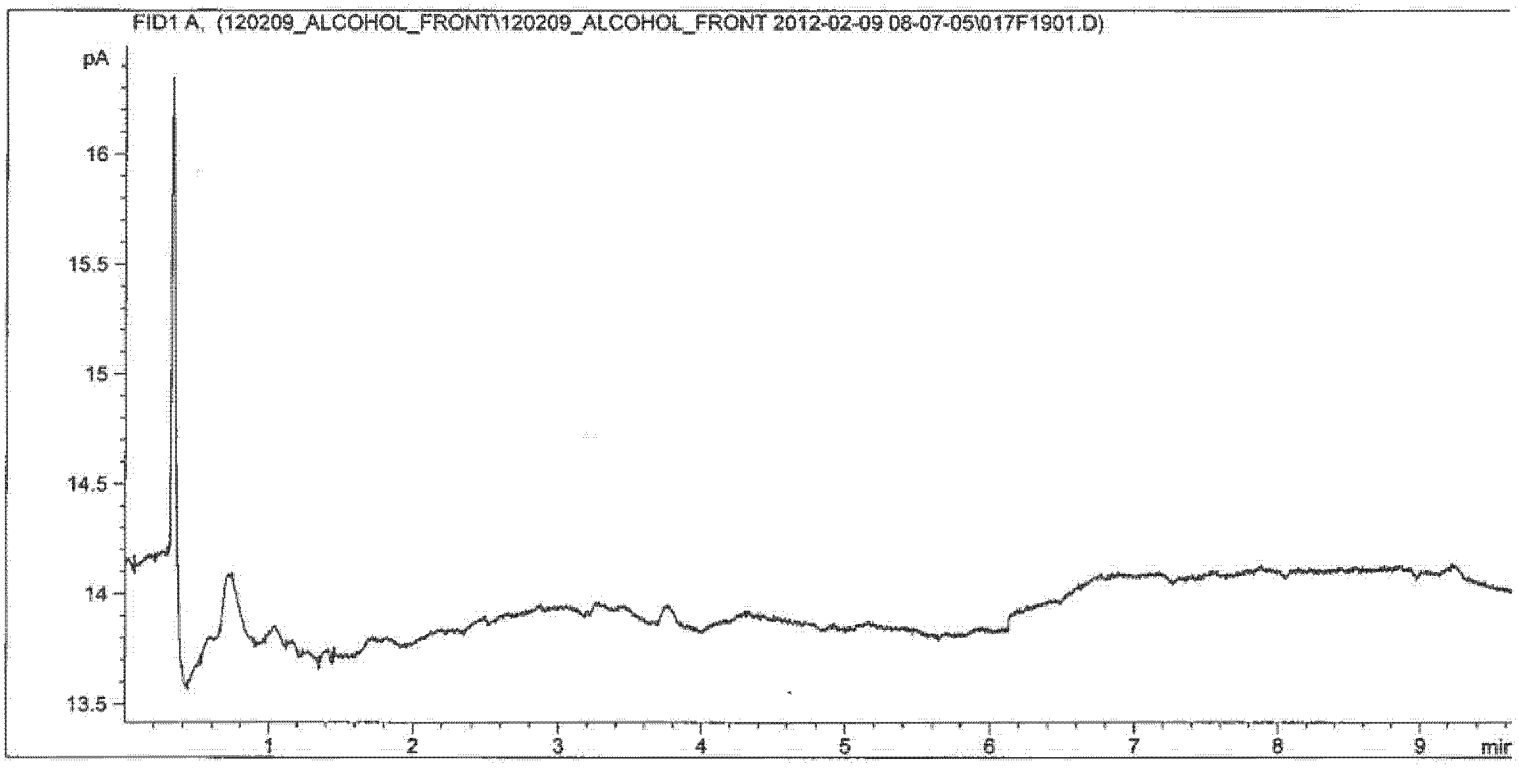
*** End of Report ***

Acm

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\017F1901.D
Sample Name: 1202003-18

Acq. Operator	: ACM	Seq. Line :	19
Acq. Instrument	: AG3-6890N	Location :	Vial 17
Injection Date	: 2/9/2012 12:18:51 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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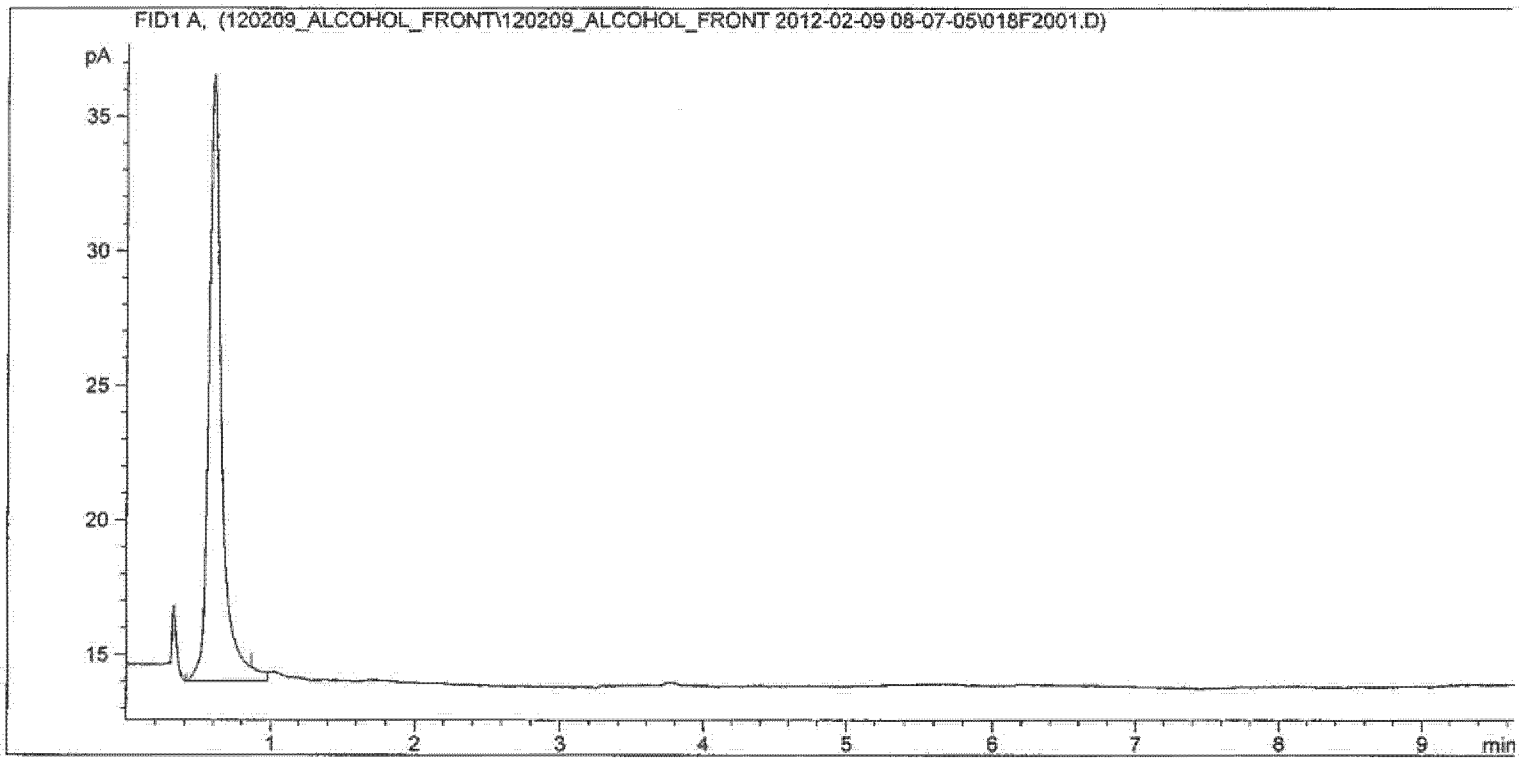
*** End of Report ***

Ac

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\018F2001.D
Sample Name: 1202003-19

Acq. Operator	: ACM	Seq. Line :	20
Acq. Instrument	: AG3-6890N	Location :	Vial 18
Injection Date	: 2/9/2012 12:32:40 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M
Last changed : 2/9/2012 11:49:22 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N|D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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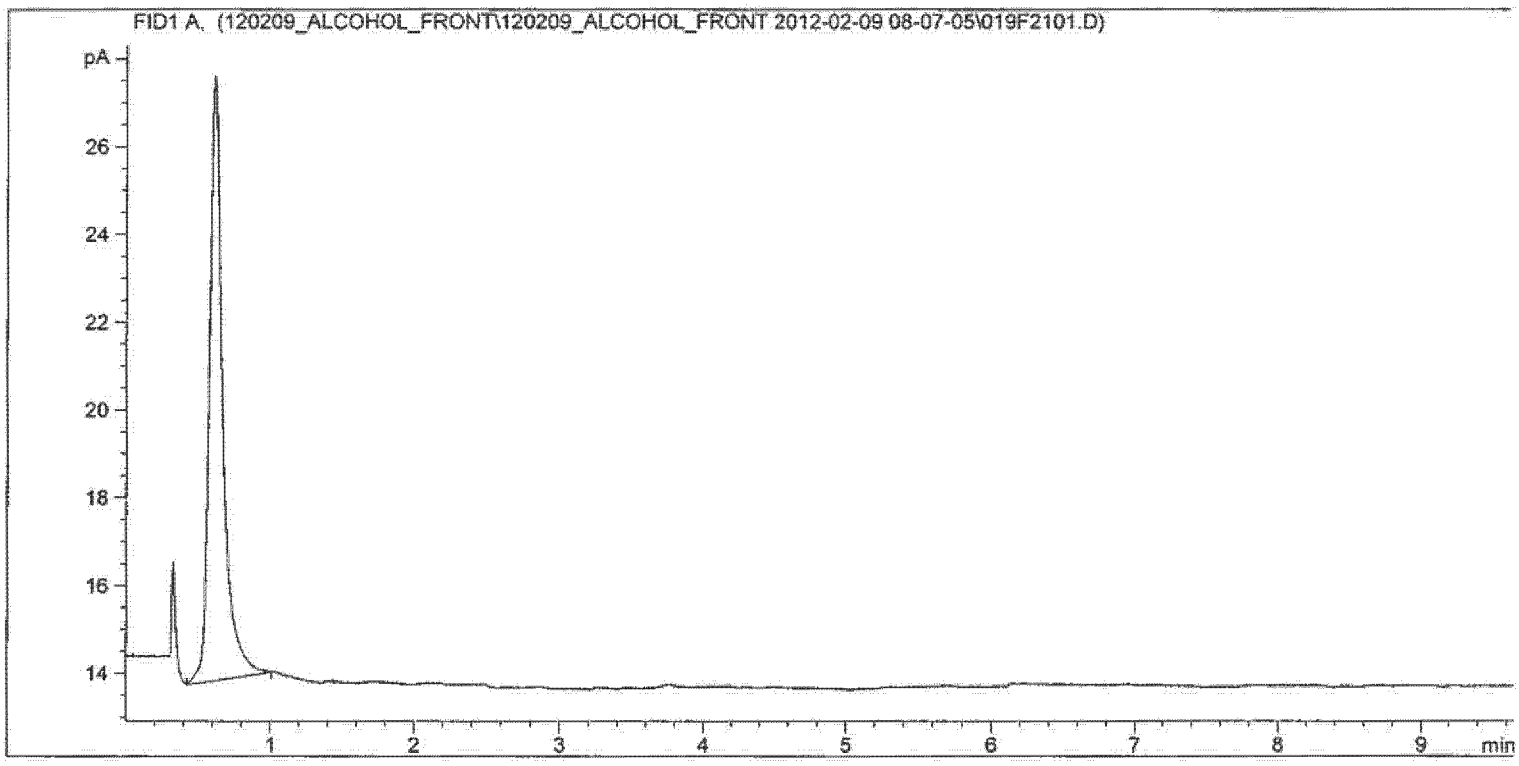
*** End of Report ***

Am

Data File C:\CHEM32\...9_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\019F2101.D
Sample Name: 1202003-20

Acq. Operator	: ACM	Seq. Line	: 21
Acq. Instrument	: AG3-6890N	Location	: Vial 19
Injection Date	: 2/9/2012 12:46:28 PM	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\120209_ALCOHOL_FRONT\120209_ALCOHOL_FRONT 2012-02-09 08-07-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120209.M		
Last changed	: 2/9/2012 11:49:22 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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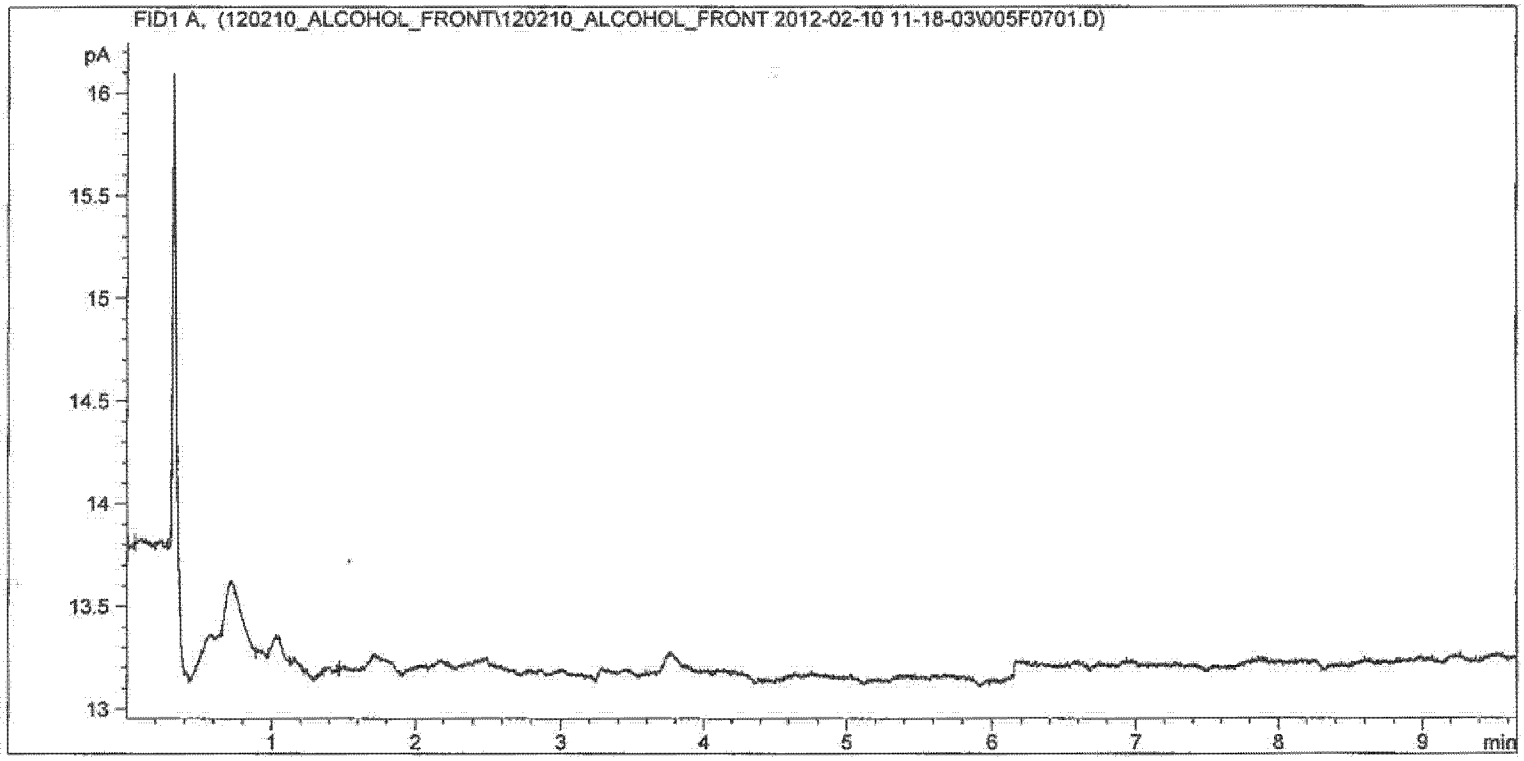
*** End of Report ***

Acm

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\005F0701.D
Sample Name: 1202003-32

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/10/2012 12:43:47 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Aem

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\008F1001.D
Sample Name: 1202003-33

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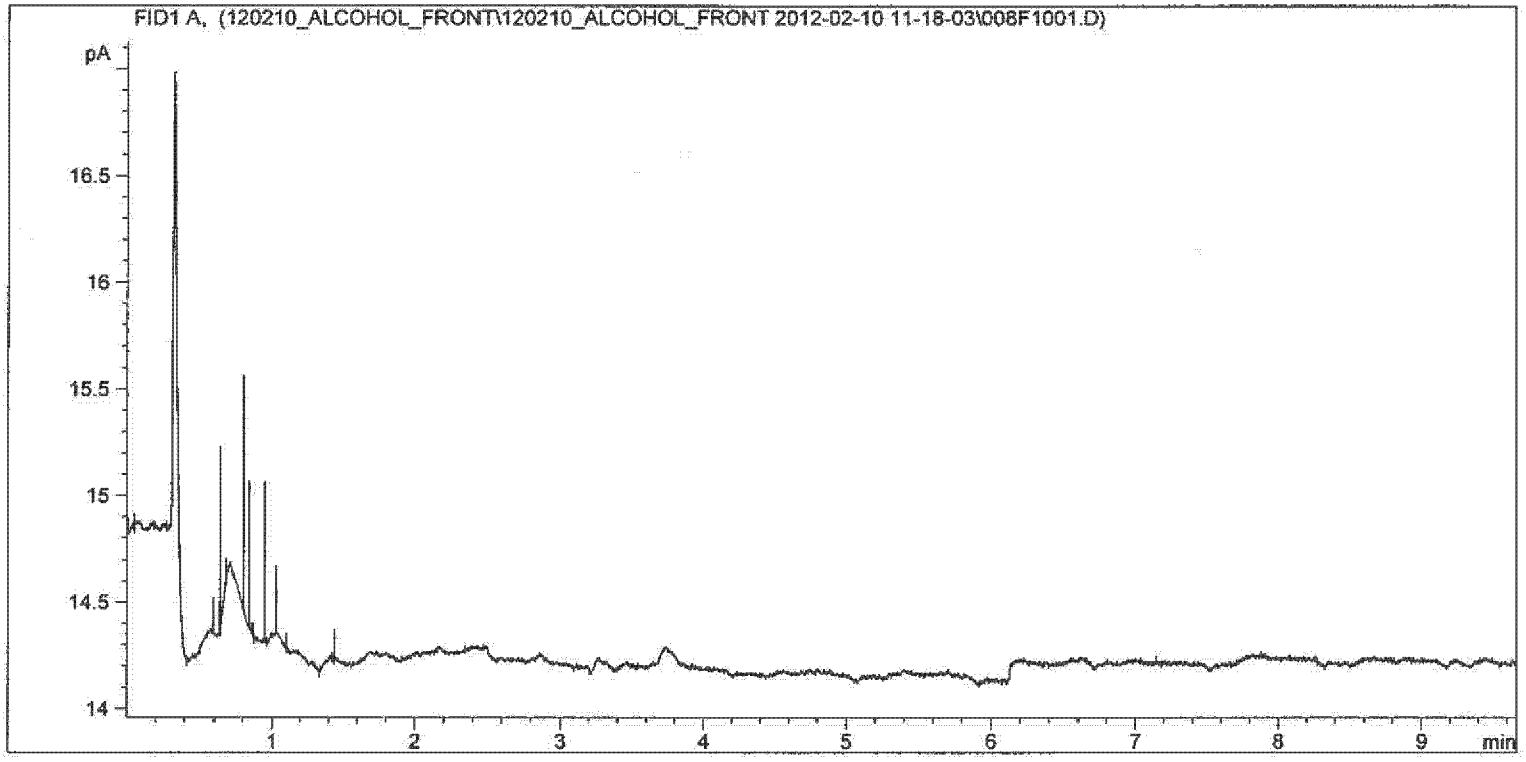
Acq. Operator : ACM
Seq. Line : 10
Acq. Instrument : AG3-6890N
Location : Vial 8
Injection Date : 2/10/2012 1:25:16 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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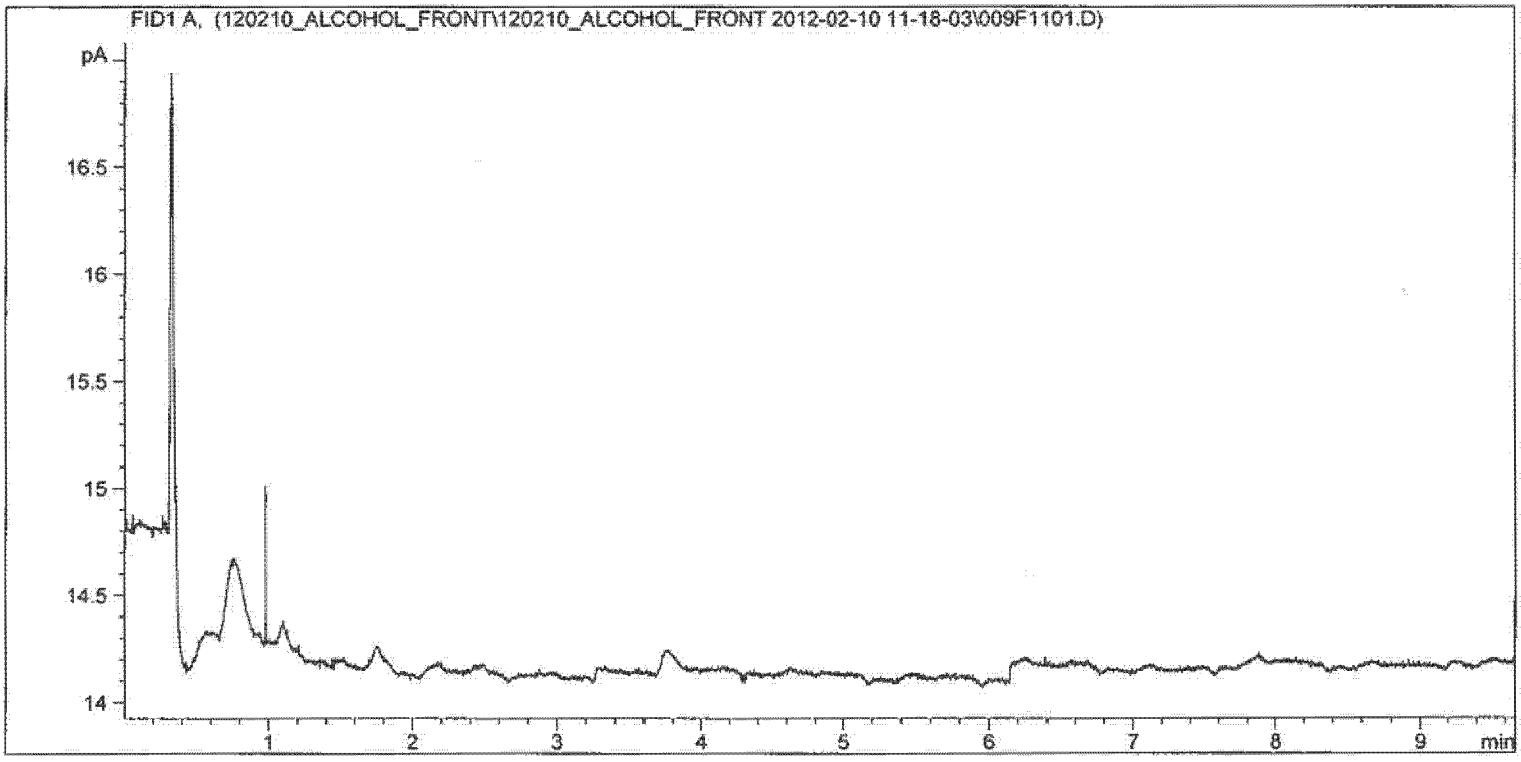
*** End of Report ***

Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\009F1101.D
Sample Name: 1202003-34

==========

Acq. Operator : ACM
Seq. Line : 11
Acq. Instrument : AG3-6890N
Location : Vial 9
Injection Date : 2/10/2012 1:39:06 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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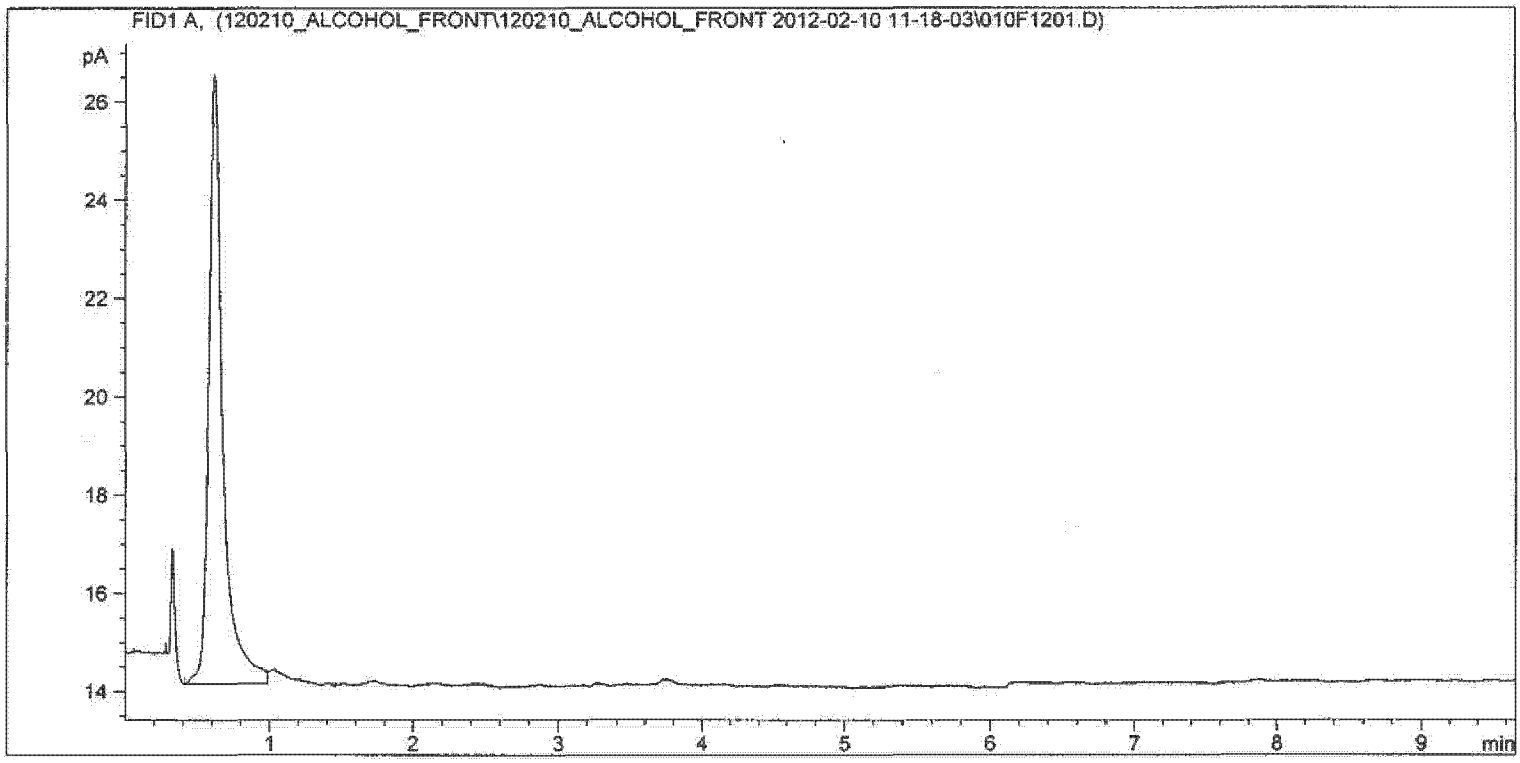
*** End of Report ***

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\010F1201.D
Sample Name: 1202003-35

==========

Acq. Operator : ACM
Seq. Line : 12
Acq. Instrument : AG3-6890N
Location : Vial 10
Injection Date : 2/10/2012 1:52:56 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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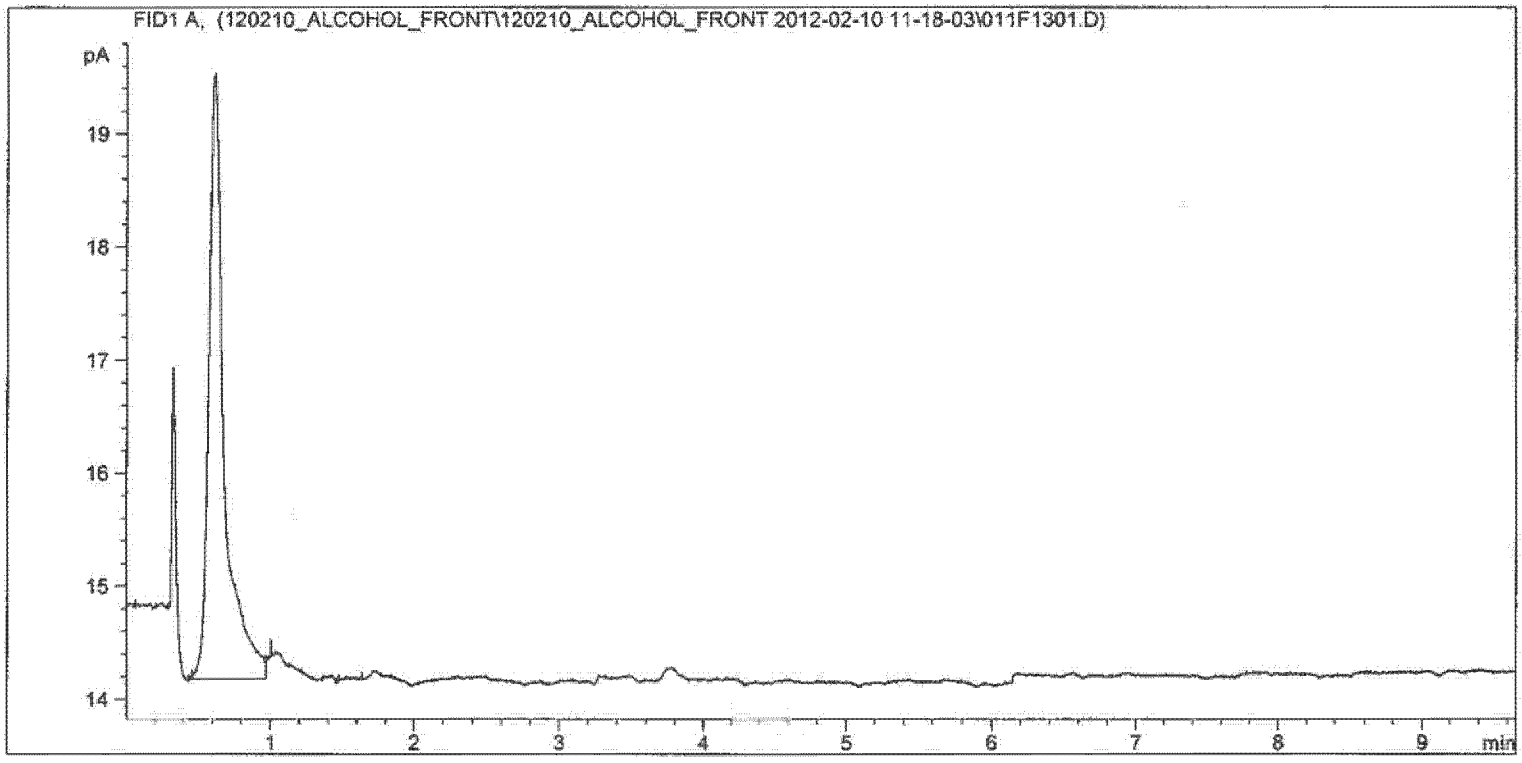
*** End of Report ***

ACM

Data File C;\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\011F1301.D
Sample Name: 1202003-36

==========

Acq. Operator : ACM
Seq. Line : 13
Acq. Instrument : AG3-6890N
Location : Vial 11
Injection Date : 2/10/2012 2:06:46 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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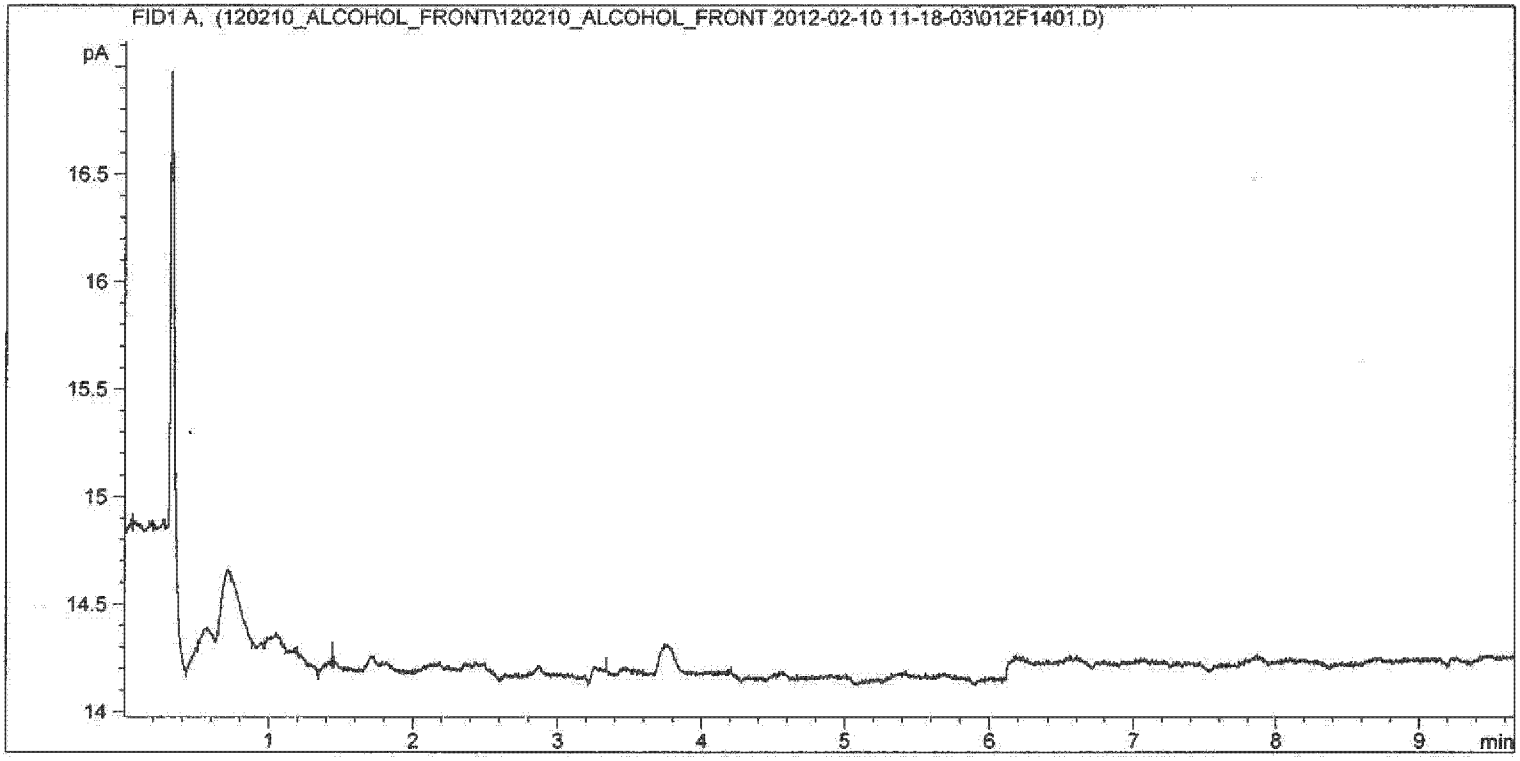
*** End of Report ***

ACM

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\012F1401.D
Sample Name: 1202003-37

==========

Acq. Operator : ACM
Seq. Line : 14
Acq. Instrument : AG3-6890N
Location : Vial 12
Injection Date : 2/10/2012 2:20:35 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

Ar

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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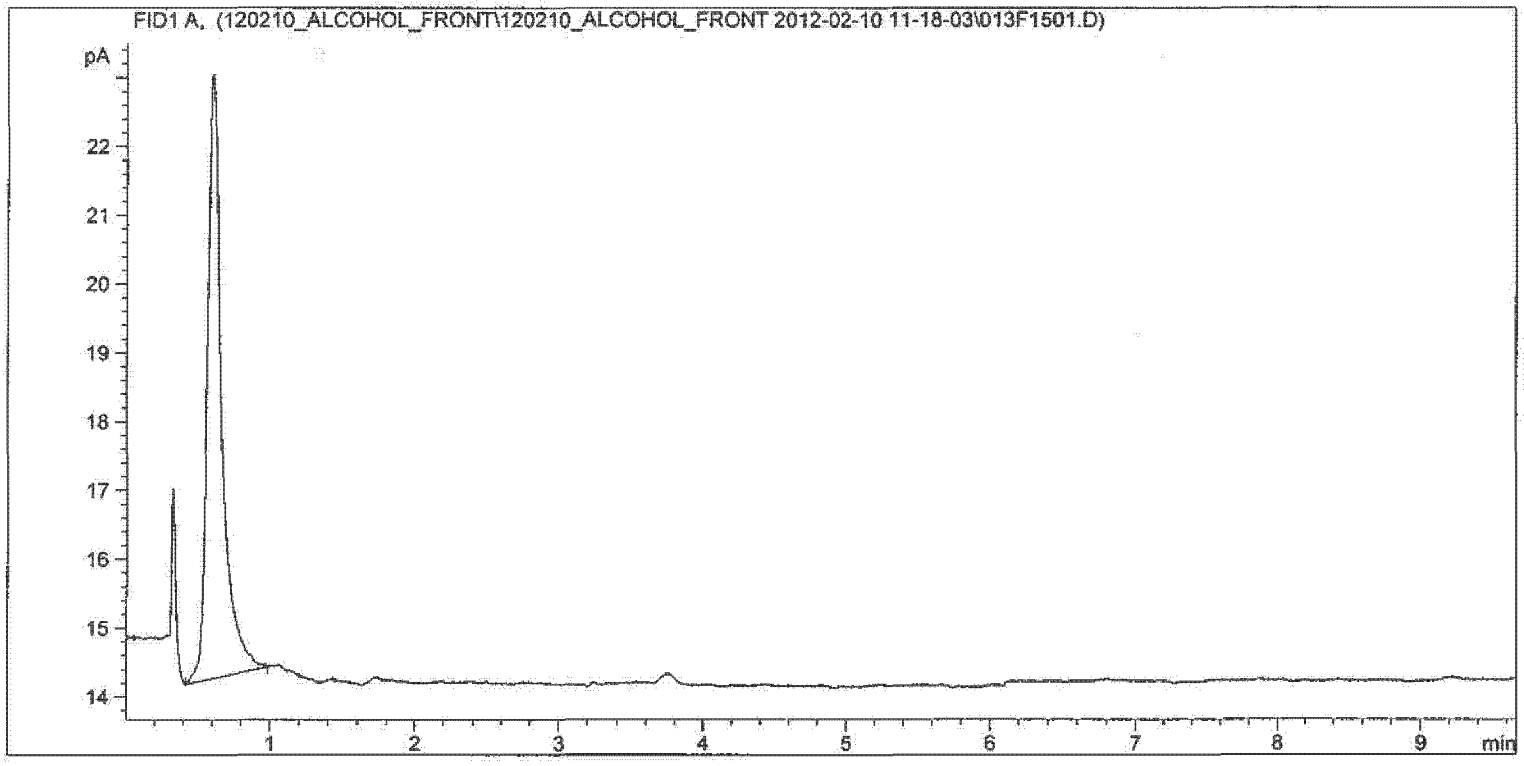
*** End of Report ***

Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\013F1501.D
Sample Name: 1202003-38

Acq. Operator	: ACM	Seq. Line :	15
Acq. Instrument	: AG3-6890N	Location :	Vial 13
Injection Date	: 2/10/2012 2:34:25 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M		
Last changed	: 2/10/2012 1:30:49 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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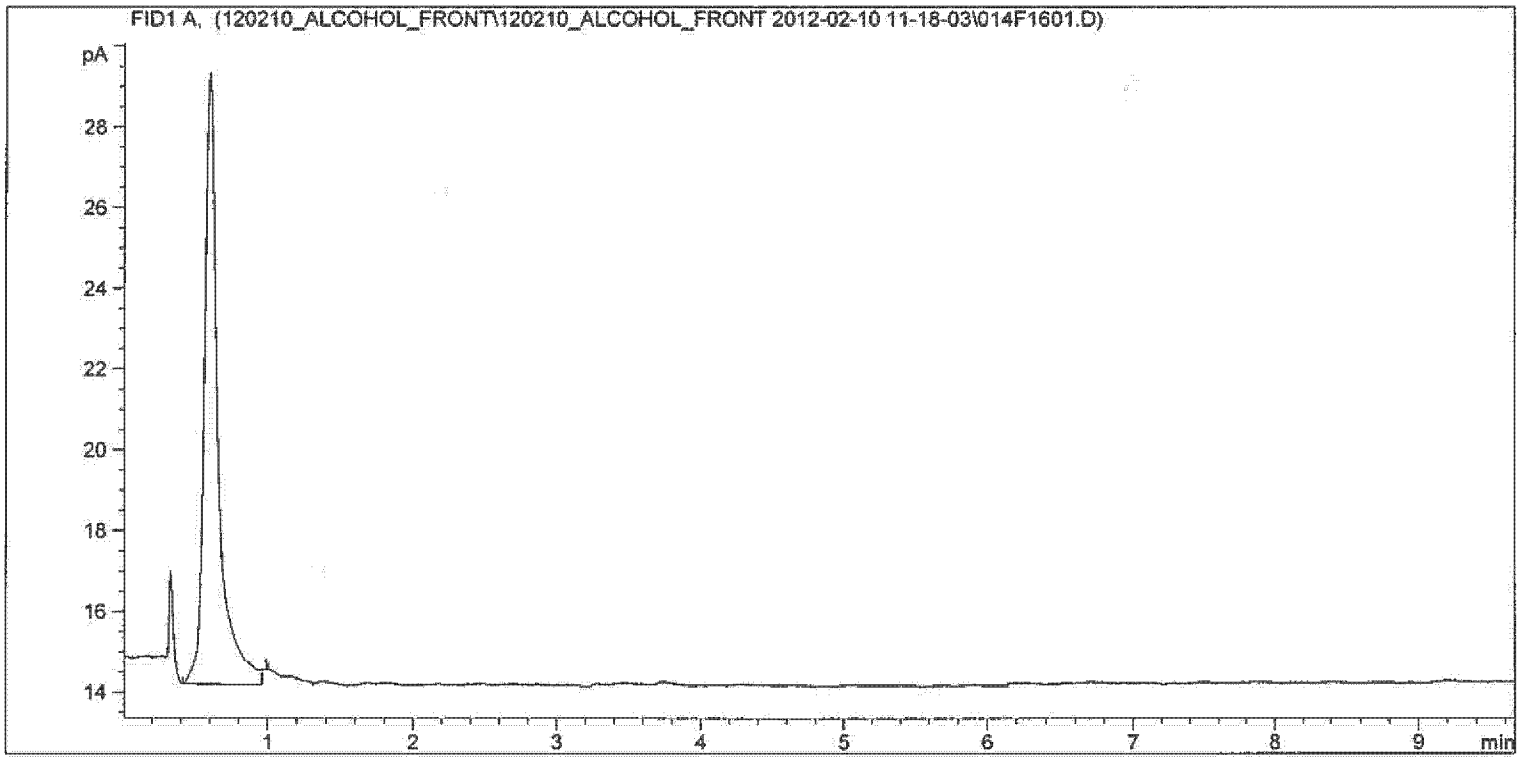
*** End of Report ***

Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\014F1601.D
Sample Name: 1202003-39

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/10/2012 2:48:16 PM
Seq. Line : 16
Location : Vial 14
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120210_ALCOHOL_FRONT\120210_ALCOHOL_FRONT 2012-02-10 11-18-03\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120210.M
Last changed : 2/10/2012 1:30:49 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.770		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
==========

Sorted By : Signal
Calib. Data Modified : 2/9/2012 11:49:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.770		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
*** End of Report ***

Acm