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CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C119

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WET	**	8000 –
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** - Not Requested



LABORATORIES, INC.
 1835 W. 205th Street
 Torrance, CA 90501
 Tel: (310) 618-8889
 Fax: (310) 618-0818

Date: 04-06-2006
 EMAX Batch No.: 06C119

Attn: Linda Geddes

MWH
 750 Royal Oaks Dr, Suite 100
 Monrovia CA 91016-3629

Subject: Laboratory Report
 Project: Upgradient Investigation, Tronox

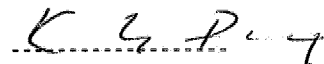
 Enclosed is the Laboratory report for samples received on 03/14/06.
 The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
TR-10A	C119-01	03/13/06	WATER	VOLATILE ORGANICS BY GC/MS GASOLINE RANGE ORGANICS ETHYLENE GLYCOL METHANOL & ETHANOL
PUMP BLANK	C119-02	03/13/06	WATER	VOLATILE ORGANICS BY GC/MS GASOLINE RANGE ORGANICS MOTOR OIL ETHYLENE GLYCOL DIESEL RANGE ORGANICS METHANOL & ETHANOL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,


 Kam Y. Pang, Ph.D.
 Laboratory Director

ENSR

1220 Avenida Acaso, Camarillo, California 93012-8738
 T 805.388.3775 F 805.388.3577 www.ensr.aecom.com

Facsimile

Deliver to:

Name: Ye Myint
 Firm: EMAX LABORATORIES, Inc
 Fax number: (310) 618-0818
 Phone number:
 Project number: 04020-023-150

From:

Name: Brian Ho - Guest at Holiday
 Direct line: Inn Express, Room 231
 Date transmitted: 3/13/06
 Pages to follow: 1

Subject: Correction to chain of Custody #: 5146

Message

Hello Ye:

On Tuesday (3/14), you will receive three ice chests from me. One of the ice chest contains water samples accompanied by Chain of Custody Form # 5146. On that form, I forgot to list a Pump Blank sample even though the sample bottles for the Pump Blank are contained within. ~~The~~ Attached to this fax is the corrected Chain-of-Custody, which shows samples TR-10A and the Pump Blank sample. Call me (805) 795-3334 if you have any questions.

Thanks,
 Brian

A Trusted Global Environmental, Health and Safety Partner

This fax is a confidential communication intended for the individual or entity named above. If the reader of this message is not the intended recipient, please delete and note that dissemination, distribution, or copying of this communication is prohibited. Thank You.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	06C119
<input type="checkbox"/> EMAX Courier		Recipient	Luna
<input type="checkbox"/> Client Delivery	Fedex	Date	3-14-06
<input checked="" type="checkbox"/> Third Party	856241670231	Time	09:30

COC Inspection		
<input type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Sampler Name	<input type="checkbox"/> Sampling Date/Time/Location
<input type="checkbox"/> Address	<input type="checkbox"/> Courier Signature/Date/Time	<input checked="" type="checkbox"/> Analysis Required
<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> TAT	<input checked="" type="checkbox"/> Matrix
<input type="checkbox"/> Tel #/Fax #	<input checked="" type="checkbox"/> Sample ID	<input type="checkbox"/> Preservative (if any)
Safety Issues <input type="checkbox"/> None	<input type="checkbox"/> High Concentrations expected	<input type="checkbox"/> Superfund Site Samples
Comments: <input type="checkbox"/> Rad Screening Required		

Packaging Inspection			
Container	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/>
Condition	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input checked="" type="checkbox"/> Damaged
Packaging	<input type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Sufficient
Temperatures	<input checked="" type="checkbox"/> Cooler 1 4.3	<input checked="" type="checkbox"/> Cooler 2	<input type="checkbox"/> Cooler 3
	<input type="checkbox"/> Cooler 5	<input type="checkbox"/> Cooler 6	<input type="checkbox"/> Cooler 4
	<input type="checkbox"/> Cooler 9	<input type="checkbox"/> Cooler 10	<input type="checkbox"/> Cooler 7
			<input type="checkbox"/> Cooler 8
			<input type="checkbox"/> Cooler 11
			<input type="checkbox"/> Cooler 12
Comments:			

LSCID	Client ID	Discrepancy	Corrective Action
C119-01		No collection time on 10bebs Both amber & bottles w/ 8015E were received broken.	Informed client. Label TPH-E.
C119-02		Rec. eleven containers COC leads tube	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling Luna
Date 3/14/06

SRF me
Date 3/15/06

PM ysing
Date 3/15/06

FedEx® US Airbill

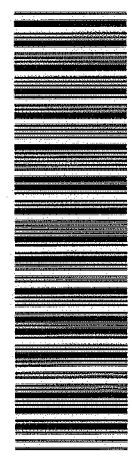
Express

FedEx Tracking Number **8562 4167 0231**

1 From
 Date 3/13/06
 Sender's Name Brian H Phone 805 705-1334
 Company ENSR
 Address 1220 Avenida Acazo
 City Caricillo State CA ZIP 92012
Dept./Floor/Suite/Room

2 Your Internal Billing Reference 04020-023-150

3 To
 Recipient's Name YE MYAT Phone 310 680-8889
 Company EMAX Labs.
 Recipient's Address 1835 West 205th Street
We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address Torrance State CA ZIP 90501
Dept./Floor/Suite/Room



8562 4167 0231

0200

4a Express Package Service
 FedEx Priority Overnight
Next business morning* - Friday
 unless SATURDAY Delivery is selected.
 FedEx Standard Overnight
Next business afternoon*
 Saturday Delivery NOT available.
 FedEx Express Saver
Third business day** - Thursday
 unless SATURDAY Delivery is selected.
 FedEx 2Day
Second business day** - Thursday
 unless SATURDAY Delivery is selected.
 FedEx 2Day Freight
Second business day** - Thursday
 unless SATURDAY Delivery is selected.
 FedEx 1Day Freight
Next business day** - Friday
 unless SATURDAY Delivery is selected.

5 Packaging
 FedEx Envelope*
 FedEx Pak*
Includes FedEx Small Pak,
 FedEx Large Pak, and FedEx SurePak.
 FedEx Tube
 Other
* Declared value limit \$500.

6 Special Handling
 SATURDAY Delivery
Not available for
 FedEx Standard Overnight, Express
 Saver, or FedEx 3Day Freight.
 HOLD Weekday at FedEx Location
Not available for
 FedEx Priority Overnight,
 Saver, or FedEx 3Day Freight.
 HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority
 Overnight, FedEx 2Day
 or FedEx 3Day Freight.

7 Payment Bill to:
 Sender
Enter FedEx Acct. No. or Credit Card No. below.
 Recipient
 Third Party
 Credit Card
 Cash/Check

Total Packages 1
Total Weight _____
Total Declared Value* \$ 300.00
Total Charges _____
* Declared value limit \$500.

8 NEW Residential Delivery Signature Options
 No Signature Required
Package may be left without obtaining a signature for delivery.
 Direct Signature
Anyone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature
If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. Fee applies.



Ye Myint

From: Ye Myint
Sent: Tuesday, March 14, 2006 1:37 PM
To: 'Kennedy, Robert'
Cc: Linda Geddes; bho@ensr.aecom.com; Bilodeau, Sally
Subject: COCs/SRFs for 06C119 and 06C120

Robert,

Attached please find the COCs/SRFs for samples received today at EMAX. I spike with Brian regarding sample TR-10A (EMAX C119-01) this morning. Both 1L Ambers were received broken for TPH-E. We will cancel the analysis since no extra bottles left for the extraction. Please contact me with any questions. Thanks.

Linda: Samples are ready for the pick-up.

Ye Myint
EMAX Laboratories, Inc.
1835 W 205th. St.
Torrance, CA 90501
Phone: (310) 618-8889 x121
Fax: (310) 618-0818
E-mail: ymyint@emaxlabs.com

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD SW5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C119

SW 5030B/8260B VOLATILE ORGANICS BY GC/MS

Two (2) water samples were received on 03/14/06 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blank was free of contamination at reporting limit.

4. Surrogate Recovery

Recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was analyzed for this SDG.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : ENSR
 Project : UPGRADE INVESTIGATION, TRONOX
 SDG NO. : 06C119
 Instrument ID : I-003

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	WATER		Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis Date/Time	Extraction Date/Time					
MBLKTW	V003C26B	1	NA	03/17/0621:12	03/17/0621:12	RCB304	RBB058	V003C26	Method Blank	
LCSTW	V003C26L	1	NA	03/17/0619:58	03/17/0619:58	RCB302	RBB058	V003C26	Lab Control Sample (LCS)	
LCDTW	V003C26C	1	NA	03/17/0620:35	03/17/0620:35	RCB303	RBB058	V003C26	LCS Duplicate	
TR-10A	C119-01	1	NA	03/18/0600:54	03/18/0600:54	RCB310	RBB058	V003C26	Field Sample	
PUMP BLANK	C119-02	1	NA	03/18/0601:32	03/18/0601:32	RCB311	RBB058	V003C26	Field Sample	

FN - Filename
 % Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : ENSR
Project     : UPGRADE INVESTIGATION, TRONOX
Batch No.  : 06C119
Sample ID   : TR-10A
Lab Samp ID: C119-01
Lab File ID: RCB310
Ext Btch ID: V003C26
Calib. Ref.: RBB058

Date Collected: 03/13/06
Date Received: 03/14/06
Date Extracted: 03/18/06 00:54
Date Analyzed: 03/18/06 00:54
Dilution Factor: 1
Matrix       : WATER
% Moisture   : NA
Instrument ID: T-003
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	100	5
2-BUTANONE	ND	100	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5
SURROGATE PARAMETERS			
1,2-DICHLOROETHANE-D4	% RECOVERY	QC LIMIT	
4-BROMOFLUOROBENZENE	108	70-140	
TOLUENE-D8	104	70-130	
	99	70-140	

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C17\RCB310.D
 Acq On : 18 Mar 2006 12:54 am
 Sample : 06C119-01 5.0mL
 Misc : DF=1.0
 MS Integration Params: 524INT.P
 Quant Time: Mar 20 18:08 2006

Vial: 14
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.17	114	2098171	50.00	ug/l	0.01
37) CHLOROBENZENE-D5	17.08	117	2130926	50.00	ug/l	0.01
67) 1,2-DICHLOROBENZENE-D4	24.32	152	2089474	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1170052	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	
50) Toluene-d8	13.88	98	2390701	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
71) 4-Bromofluorobenzene	20.10	95	1276490	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

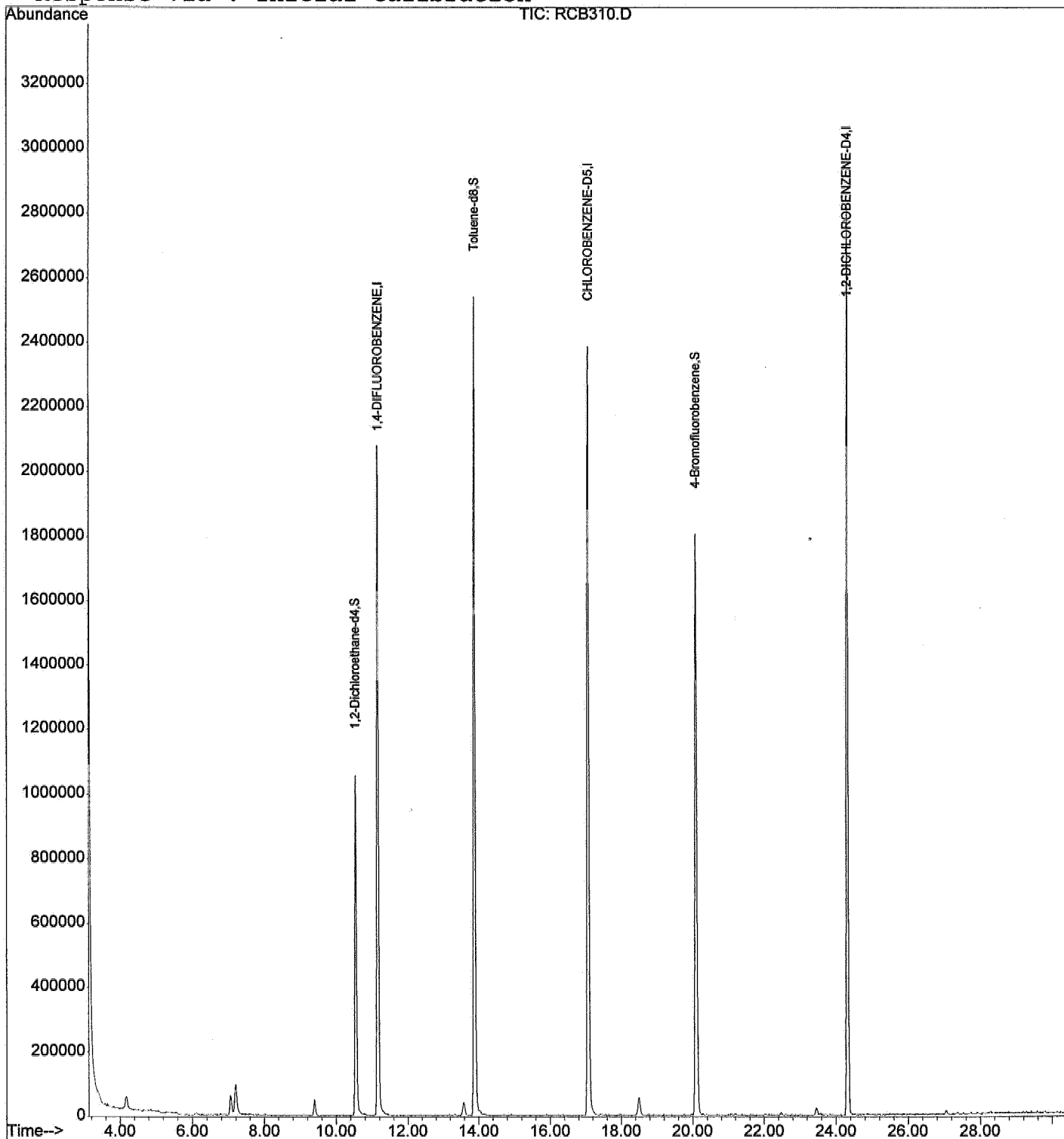
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB310.D
Acq On : 18 Mar 2006 12:54 am
Sample : 06C119-01 5.0mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Mar 20 18:08 2006

Vial: 14
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : ENSR                               Date Collected: 03/13/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/14/06
Batch No.   : 06C119                           Date Extracted: 03/18/06 01:32
Sample ID   : PUMP BLANK                       Date Analyzed: 03/18/06 01:32
Lab Samp ID: C119-02                           Dilution Factor: 1
Lab File ID: RCB311                            Matrix: WATER
Ext Btch ID: V003C26                          % Moisture: NA
Calib. Ref.: RB8058                           Instrument ID: T-003
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5
SURROGATE PARAMETERS			
1,2-DICHLOROETHANE-D4	% RECOVERY	QC LIMIT	
4-BROMOFLUOROBENZENE	108	70-140	
TOLUENE-D8	105	70-130	
	104	70-140	

Data File : D:\HPCHEM\1\DATA\06C17\RCB311.D
 Acq On : 18 Mar 2006 1:32 am
 Sample : 06C119-02 5.0mL
 Misc : DF=1.0
 MS Integration Params: 524INT.P
 Quant Time: Mar 20 18:08 2006

Vial: 15
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	✓2327053	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.07	117	✓2215476	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	✓1106564	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.55	65	1290728	53.85	ug/l	0.00
Spiked Amount						
			Recovery	=	107.70%	✓
50) Toluene-d8	13.89	98	2617774	52.24	ug/l	0.00
Spiked Amount						
			Recovery	=	104.48%	✓
71) 4-Bromofluorobenzene	20.10	95	1306962	52.29	ug/l	0.00
Spiked Amount						
			Recovery	=	104.58%	✓

Target Compounds

Qvalue

 (#) = qualifier out of range (m) = manual integration

RCB311.D VO03B03.M Mon Mar 20 18:09:04 2006

Page 1

2008

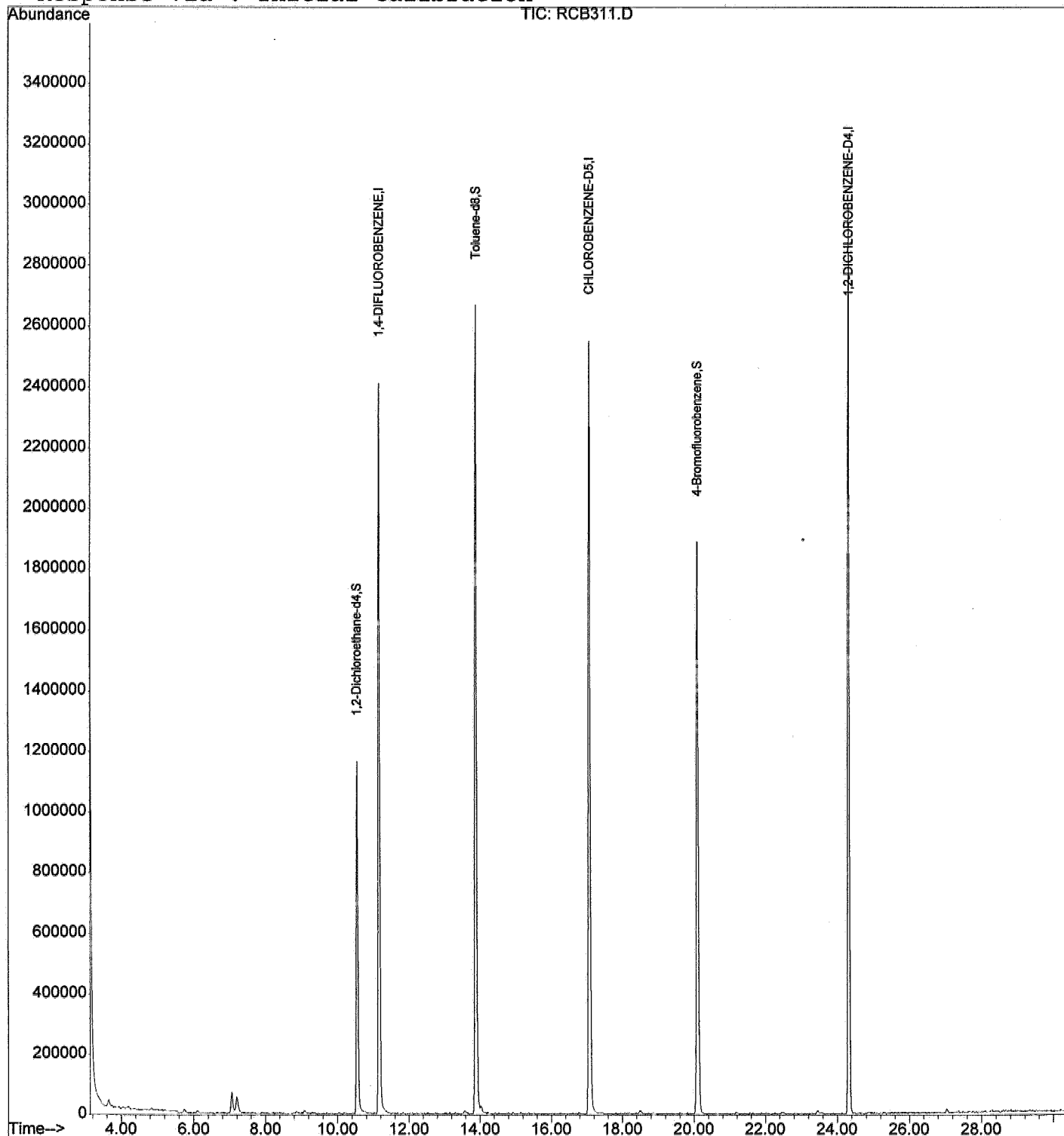
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB311.D
Acq On : 18 Mar 2006 1:32 am
Sample : 06C119-02 5.0mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Mar 20 18:08 2006

Vial: 15
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

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=====
Client      : ENSR                               Date Collected: NA
Project    : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/17/06
Batch No.  : 06C119                             Date Extracted: 03/17/06 21:12
Sample ID  : MBLK1W                             Date Analyzed: 03/17/06 21:12
Lab Samp ID: V003C26B                          Dilution Factor: 1
Lab File ID: RCB304                             Matrix: WATER
Ext Btch ID: V003C26                           % Moisture: NA
Calib. Ref.: RBB058                             Instrument ID: T-003
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5
SURROGATE PARAMETERS			
1,2-DICHLOROETHANE-D4	% RECOVERY	QC LIMIT	
4-BROMOFLUOROBENZENE	100	70-140	
TOLUENE-D8	107	70-130	
	105	70-130	

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: SW 5030B/8260B

MATRIX: WATER
DILUTION FACTOR: 1 1 % MOISTURE: NA
SAMPLE ID: MBLK1W
LAB SAMP ID: V003C26B V003C26L V003C26C
LAB FILE ID: RCB304 RCB302 RCB303
DATE EXTRACTED: 03/17/0621:12 03/17/0619:58 03/17/0620:35 DATE COLLECTED: NA
DATE ANALYZED: 03/17/0621:12 03/17/0619:58 03/17/0620:35 DATE RECEIVED: 03/17/06
PREP. BATCH: V003C26 V003C26 V003C26
CALIB. REF: RBB058 RBB058 RBB058

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	20	21.3	107	20	23.3	117	9	70-130	30
1,1,1-Trichloroethane	ND	20	20.7	103	20	22	110	6	70-130	30
1,1,2,2-Tetrachloroethane	ND	20	19.9	99	20	21.9	110	10	70-130	30
1,1,2-Trichloroethane	ND	20	20.1	101	20	22.3	112	10	70-130	30
1,1-Dichloroethane	ND	20	20.7	104	20	22	110	6	70-130	30
1,1-Dichloroethene	ND	20	17.2	86	20	18.2	91	6	60-130	30
1,1-Dichloropropene	ND	20	18.8	94	20	20	100	6	70-140	30
1,2,3-Trichlorobenzene	ND	20	20.2	101	20	23.2	116	14	70-130	30
1,2,3-Trichloropropane	ND	20	19.8	99	20	21.1	106	7	70-140	30
1,2,4-Trichlorobenzene	ND	20	20.3	102	20	22.4	112	10	70-140	30
1,2,4-Trimethylbenzene	ND	20	20.6	103	20	22.1	111	9	70-130	30
1,2-Dibromo-3-chloropropane	ND	20	17.1	86	20	18.8	94	7	60-130	30
1,2-Dichlorobenzene	ND	20	20.3	102	20	22.1	110	8	70-130	30
1,2-Dichloroethane	ND	20	20.8	104	20	22	110	6	70-130	30
1,2-Dichloropropane	ND	20	20.8	104	20	21.4	107	9	70-130	30
1,2-Dibromoethane	ND	20	20.7	104	20	22.8	114	9	70-140	30
1,3,5-Trimethylbenzene	ND	20	21	105	20	22.6	113	7	70-130	30
1,3-Dichlorobenzene	ND	20	20.5	103	20	21.9	110	7	70-130	30
1,3-Dichloropropane	ND	20	21.1	106	20	22.7	113	7	70-130	30
1,4-Dichlorobenzene	ND	20	19.8	99	20	21.5	106	6	70-130	30
1-Chlorohexane	ND	20	21.5	107	20	23	115	7	70-130	30
2,2-Dichloropropane	ND	20	21.5	107	20	23.4	117	8	50-140	30
2-Chlorotoluene	ND	20	18.9	94	20	20.4	102	8	70-130	30
4-Chlorotoluene	ND	20	20.7	104	20	21.9	110	8	70-130	30
Benzene	ND	20	20.4	102	20	22.1	111	6	70-130	30
Bromobenzene	ND	20	20.6	103	20	22.4	112	8	70-130	30
Bromochloromethane	ND	20	19.8	99	20	21.1	105	6	70-130	30
Bromodichloromethane	ND	20	19.7	98	20	20.8	104	6	70-130	30
Bromoform	ND	20	17.2	86	20	18.3	92	6	60-140	30
Bromomethane	ND	20	17.4	87	20	19.5	96	10	50-140	30
Carbon Tetrachloride	ND	20	19.9	99	20	21.6	108	8	70-130	30
Chlorobenzene	ND	20	20.8	104	20	22.4	112	7	70-130	30
Chloroethane	ND	20	21.2	106	20	23.4	117	10	70-140	30
Chloroform	ND	20	21.3	107	20	22.6	113	6	70-130	30
Chloromethane	ND	20	17.8	89	20	19.4	97	6	60-130	30
cis-1,2-Dichloroethene	ND	20	20.7	103	20	21.9	109	9	70-130	30
cis-1,3-Dichloropropene	ND	20	19.4	97	20	20.8	104	7	70-130	30
Dibromochloromethane	ND	20	19.2	96	20	20.7	103	7	70-130	30
Dibromomethane	ND	20	20.3	101	20	21.6	108	6	70-140	30
Dichlorodifluoromethane	ND	20	17	85	20	18.7	94	10	50-140	30
Ethylbenzene	ND	20	21.2	106	20	23	115	8	70-130	30
Hexachlorobutadiene	ND	20	19.6	98	20	21.7	108	10	60-140	30
Isopropyl Benzene	ND	20	22.1	113	20	24.7	124	9	70-150	30
Xylenes	ND	20	64.1	107	20	69.7	115	8	70-130	30
Methylene Chloride	ND	20	19.5	98	20	20.7	104	6	70-130	30
n-Butylbenzene	ND	20	20.7	104	20	22.5	112	8	60-140	30
n-Propylbenzene	ND	20	20.7	103	20	22.3	111	7	70-130	30
Naphthalene	ND	20	19.7	99	20	22.6	113	14	50-140	30
p-Isopropyltoluene	ND	20	22.1	110	20	23.8	119	8	70-140	30
Sec-Butylbenzene	ND	20	19.6	98	20	21.4	107	9	70-130	30
Styrene	ND	20	20.2	101	20	21.7	109	7	70-130	30
Tert-Butylbenzene	ND	20	20.7	104	20	22.5	113	8	70-130	30
Tetrachloroethylene	ND	20	19.9	99	20	21.9	109	10	70-130	30
Toluene	ND	20	20.9	105	20	22.6	113	8	70-130	30
Trans-1,2-Dichloroethene	ND	20	19	95	20	20.4	102	7	70-130	30
Trans-1,3-Dichloropropene	ND	20	20.3	101	20	21.7	108	7	70-140	30
Trichloroethene	ND	20	19.3	97	20	21.1	106	9	70-130	30
Trichlorofluoromethane	ND	20	21.1	105	20	23.2	116	9	70-140	30
Vinyl Chloride	ND	20	17.3	86	20	19.4	97	11	60-150	30
Acetone	ND	80	87	109	80	96.7	121	11	50-150	30
2-Butanone	ND	80	90.9	114	80	98.9	124	8	60-140	30
MTBE	ND	20	21.2	106	20	22.8	114	7	70-140	30
4-Methyl-2-Pentanone	ND	80	95.7	120	80	107	133	11	60-140	30
DIPE	ND	20	22.3	112	20	23.7	119	6	70-140	30
ETBE	ND	20	23.5	117	20	25.2	126	7	60-140	30
TAME	ND	20	23.6	118	20	24.8	124	5	60-140	30
tert-Butanol	ND	100	108	108	100	121	121	11	60-150	30
2-Hexanone	ND	80	91.8	115	80	103	128	11	70-140	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50	52	104	50	51.8	104	70-140
4-Bromofluorobenzene	50	51.7	103	50	53.8	108	70-130
Toluene-d8	50	51.8	104	50	55	106	70-130

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C17\RCB304.D / Vial: 8
 Acq On : 17 Mar 2006 9:12 pm Operator: CGM
 Sample : VO03C26B 5.0mL Inst : T003
 Misc : DF=1.0 MB Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Mar 20 17:55 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.17	114	2308513	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2156394	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	2069293	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1190787	50.08	ug/l	0.00
Spiked Amount						
						Recovery = 100.16%
50) Toluene-d8	13.88	98	2566317	52.61	ug/l	0.00
Spiked Amount						
						Recovery = 105.22%
71) 4-Bromofluorobenzene	20.10	95	1294885	53.61	ug/l	0.00
Spiked Amount						
						Recovery = 107.22%

Target Compounds Qvalue

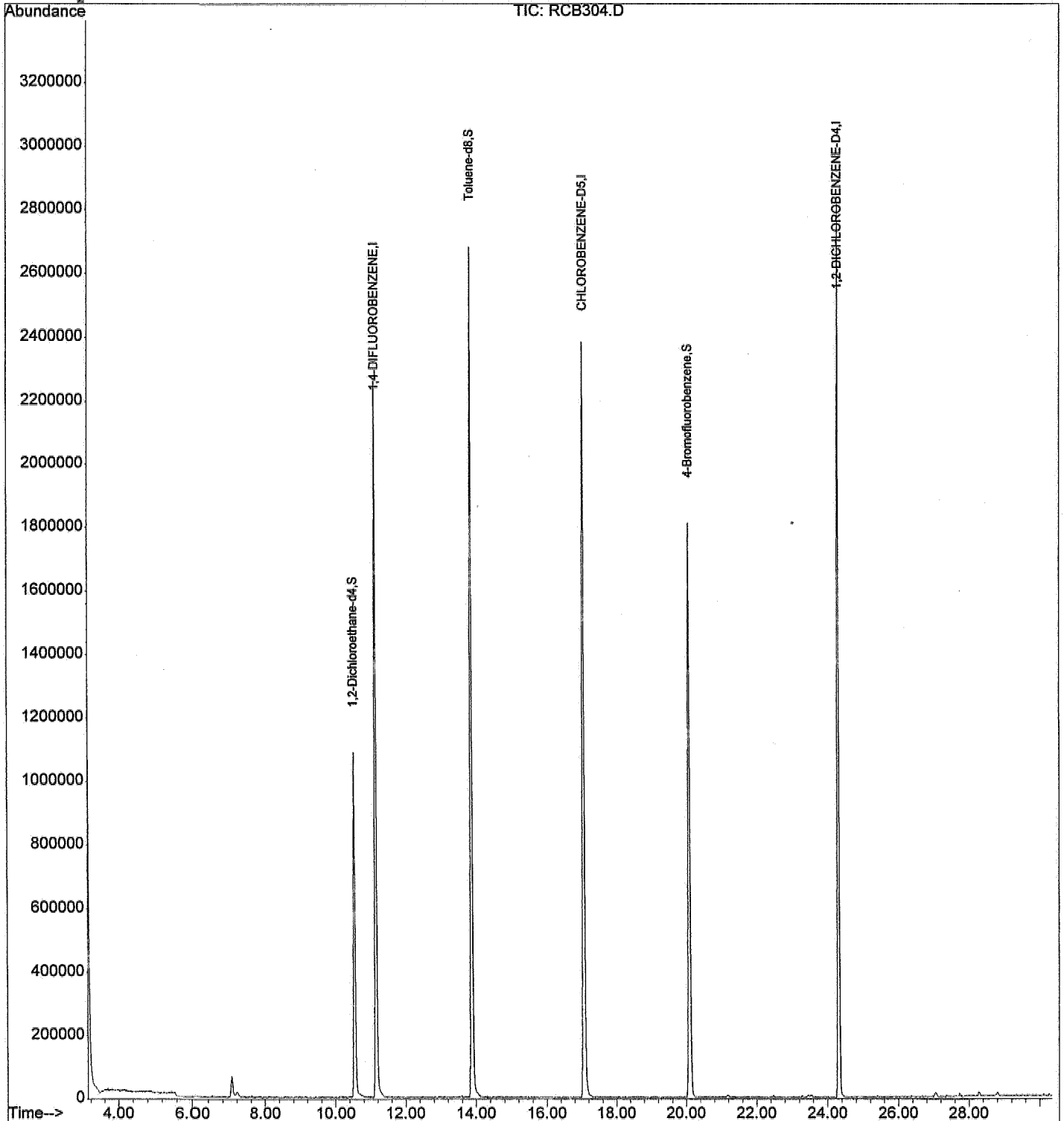
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB304.D
Acq On : 17 Mar 2006 9:12 pm
Sample : VO03C26B 5.0mL
Misc : DF=1.0 MB
MS Integration Params: 524INT.P
Quant Time: Mar 20 17:55 2006

Vial: 8
Operator: CGM
Inst : T003
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D
 Acq On : 17 Mar 2006 7:58 pm
 Sample : VO03C26L 5.0mL
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Mar 17 20:29 2006

Vial: 6
 Operator: CGM
 Inst : T003
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2480958	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2352083	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	229388	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1328322	51.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.96%	✓
50) Toluene-d8	13.88	98	2754942	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	✓
71) 4-Bromofluorobenzene	20.10	95	1435229	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	✓
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	392099	17.00	ug/l	98
3) Chloromethane	3.82	50	512147	17.75	ug/l	99
4) Vinyl chloride	4.02	62	340594	17.27	ug/l	99
5) Bromomethane	4.78	94	231979	17.41	ug/l	100
6) Chloroethane	4.91	64	232941	21.21	ug/l	96
7) Trichlorofluoromethane	5.33	101	524822	21.09	ug/l	98
9) Acrolein	5.99	56	218989	105.57	ug/l	85
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	235997	19.45	ug/l	100
11) Acetone	6.10	43	667623	86.98	ug/l	98
12) 1,1-Dichloroethene	6.31	61	645641	17.19	ug/l	99
13) tert-Butyl alcohol	6.44	59	147164	108.36	ug/l	82
15) Iodomethane	6.81	142	316379	20.30	ug/l	97
16) Methyl acetate	6.81	43	65839	3.42	ug/l	92
17) Methylene chloride	7.05	49	791246	19.51	ug/l	98
18) Carbon disulfide	7.14	76	751710	14.08	ug/l	99
19) Acrylonitrile	7.23	53	544648	87.68	ug/l	98
20) tert-Butyl methyl ether (M	7.30	73	779588	21.22	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	684077	18.97	ug/l	99
22) Isopropyl ether (DIPE)	8.00	45	1765973	22.30	ug/l	98
23) 1,1-Dichloroethane	8.18	63	816488	20.73	ug/l	99
24) Vinyl acetate	8.15	43	841536	19.93	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	1195122	23.49	ug/l	99
26) 2-Butanone	8.82	43	942175	90.86	ug/l	99
27) 2,2-Dichloropropane	9.08	77	367647	21.47	ug/l	90
28) cis-1,2-Dichloroethene	9.14	61	791102	20.66	ug/l	99
30) Chloroform	9.40	83	777409	21.30	ug/l	99
31) Bromochloromethane	9.66	49	441297	19.80	ug/l	100
33) 1,1,1-Trichloroethane	10.07	97	562430	20.65	ug/l	98
35) tert-Amyl methyl ether (TA	10.48	73	846097	23.63	ug/l	96

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D
 Acq On : 17 Mar 2006 7:58 pm
 Sample : VO03C26L 5.0mL
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Mar 17 20:29 2006

Vial: 6
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 1,1-Dichloropropene	10.32	77	181309	18.82	ug/l	97
39) Carbon tetrachloride	10.51	119	435885	19.90	ug/l	99
40) 1,2-Dichloroethane	10.69	62	736302	20.81	ug/l	100
41) Benzene	10.76	78	1436194	20.44	ug/l	99
42) Trichloroethene	11.77	130	354592	19.34	ug/l	99
44) 1,2-Dichloropropane	12.06	63	468026	20.82	ug/l	98
45) Bromodichloromethane	12.47	83	516901	19.69	ug/l	100
46) Dibromomethane	12.58	93	261622	20.30	ug/l	99
47) 2-Chloroethyl vinyl ether	12.90	63	200940	22.56	ug/l	98
48) 4-Methyl-2-pentanone	12.96	43	2387150	95.75	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	524187	19.42	ug/l	95
51) Toluene	14.03	91	1434613	20.92	ug/l	98
52) Ethyl methacrylate	14.23	69	459204	20.74	ug/l	92
53) trans-1,3-Dichloropropene	14.32	75	414787	20.28	ug/l	98
54) 1,1,2-Trichloroethane	14.64	97	296270	20.14	ug/l	98
55) 2-Hexanone	14.60	43	1523767	91.85	ug/l	100
56) 1,3-Dichloropropane	15.15	76	582900	21.14	ug/l	100
57) Tetrachloroethene	15.37	164	313925	19.89	ug/l	99
58) Dibromochloromethane	15.79	129	304148	19.22	ug/l	99
59) 1,2-Dibromoethane	16.22	107	286537	20.74	ug/l	99
60) 1-Chlorohexane	16.47	91	529471	21.49	ug/l	99
61) Chlorobenzene	17.17	112	941130	20.82	ug/l	97
62) 1,1,1,2-Tetrachloroethane	17.23	131	315254	21.34	ug/l	99
63) Ethylbenzene	17.24	91	1707245	21.21	ug/l	100
64) m-Xylene & p-Xylene	17.42	91	2836298	42.87	ug/l	100
65) o-Xylene	18.51	91	1457052	21.27	ug/l	99
66) Styrene	18.58	104	950069	20.22	ug/l	99
68) Bromoform	19.50	173	174094	17.18	ug/l	99
69) Isopropylbenzene	19.41	105	1563822	22.68	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.83	83	415777	19.89	ug/l	99
72) 1,2,3-Trichloropropane	20.23	61	111453	19.78	ug/l	95
73) trans-1,4-Dichloro-2-buten	20.39	53	91142	27.26	ug/l	92
74) n-Propylbenzene	20.50	91	2070218	20.67	ug/l	100
75) Bromobenzene	20.67	156	424446	20.62	ug/l	99
76) 2-Chlorotoluene	21.03	91	1185976	18.90	ug/l	99
77) 1,3,5-Trimethylbenzene	20.94	105	1402263	21.00	ug/l	100
78) 4-Chlorotoluene	21.15	91	1434751	20.72	ug/l	100
79) tert-Butylbenzene	21.97	119	1113351	20.71	ug/l	97
80) 1,2,4-Trimethylbenzene	22.09	105	1401886	20.59	ug/l	99
81) sec-Butylbenzene	22.61	105	1687765	19.62	ug/l	100
82) p-Isopropyltoluene	22.99	119	1379329	22.09	ug/l	98

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D
Acq On : 17 Mar 2006 7:58 pm
Sample : VO03C26L 5.0mL
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
MS Integration Params: 524INT.P
Quant Time: Mar 17 20:29 2006

Vial: 6
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,3-Dichlorobenzene	23.28	146	767548	20.52	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	752613	19.85	ug/l	97
85) n-Butylbenzene	24.00	91	1506286	20.73	ug/l	100
86) 1,2-Dichlorobenzene	24.37	146	733870	20.32	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.93	157	55769	17.15	ug/l	96
88) 1,2,4-Trichlorobenzene	27.75	180	586432	20.30	ug/l	99
89) Hexachlorobutadiene	28.03	225	464486	19.57	ug/l	99
90) Naphthalene	28.30	128	956875	19.71	ug/l	100
91) 1,2,3-Trichlorobenzene	28.82	180	528851	20.18	ug/l	99

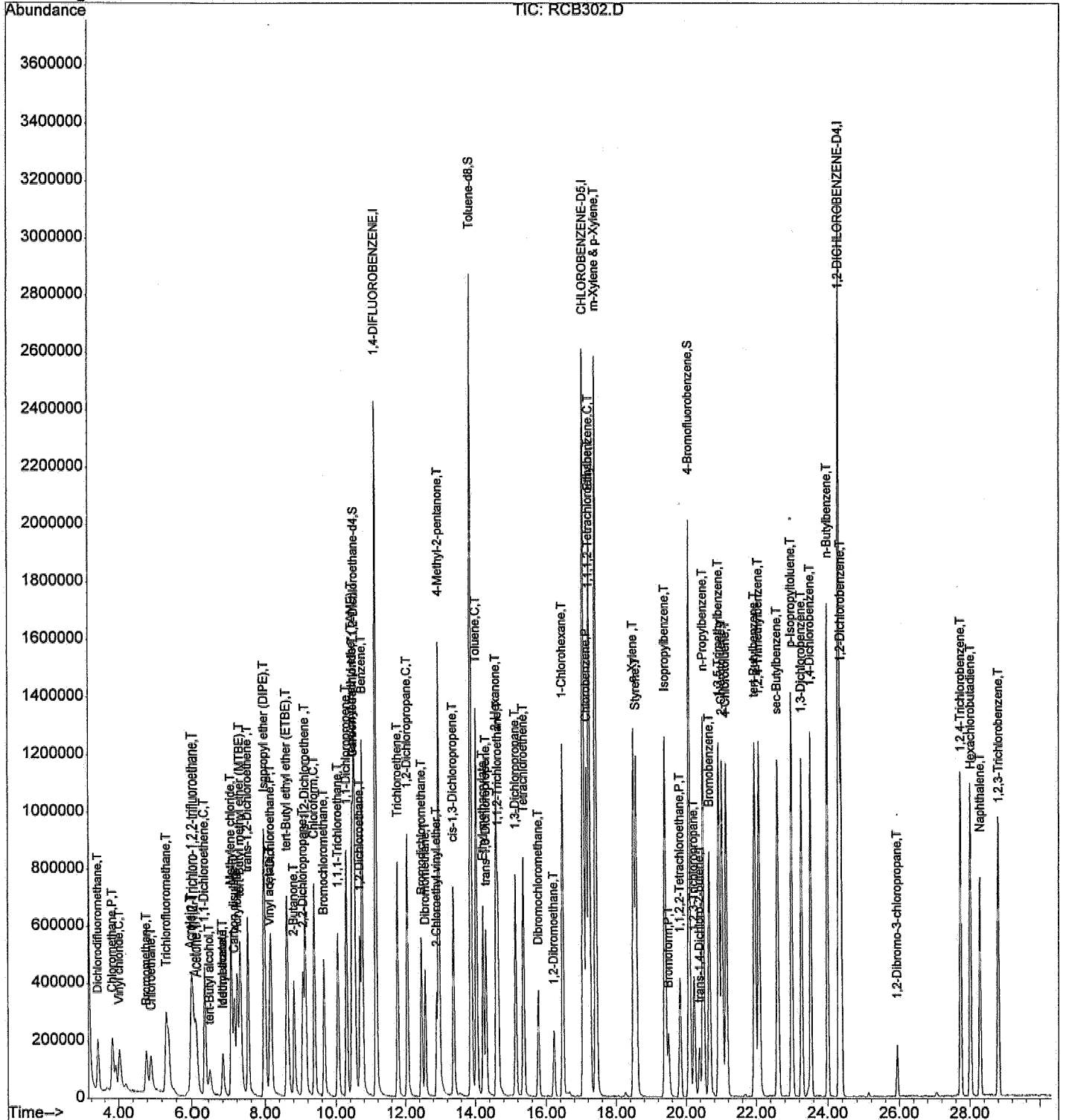
Quantitation Report

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D
Acq On : 17 Mar 2006 7:58 pm
Sample : VO03C26L 5.0mL
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
MS Integration Params: 524INT.P
Quant Time: Mar 17 20:29 2006

Vial: 6
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D
 Acq On : 17 Mar 2006 8:35 pm
 Sample : VO03C26C 5.0mL
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Mar 17 21:06 2006

Vial: 7
 Operator: CGM
 Inst : T003
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2178004	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2023723	50.00	ug/l	0.01
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1059504	50.00	ug/l	0.00

System Monitoring Compounds

36) 1,2-Dichloroethane-d4	10.54	65	1163075	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
50) Toluene-d8	13.89	98	2426177	53.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.00%	
71) 4-Bromofluorobenzene	20.10	95	1287193	53.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.56%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.39	85	378624	18.70	ug/l	97
3) Chloromethane	3.83	50	491895	19.42	ug/l	96
4) Vinyl chloride	4.02	62	332784	19.37	ug/l	99
5) Bromomethane	4.78	94	225503	19.28	ug/l	99
6) Chloroethane	4.90	64	225873	23.43	ug/l	96
7) Trichlorofluoromethane	5.33	101	506602	23.19	ug/l	99
9) Acrolein	5.98	56	199103	109.34	ug/l	85
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	219693	20.63	ug/l	98
11) Acetone	6.10	43	651490	96.68	ug/l	99
12) 1,1-Dichloroethene	6.31	61	600543	18.21	ug/l	98
13) tert-Butyl alcohol	6.44	59	144028	120.80	ug/l	81
15) Iodomethane	6.81	142	299524	21.89	ug/l	99
16) Methyl acetate	6.81	43	66317	3.92	ug/l	95
17) Methylene chloride	7.05	49	731957	20.71	ug/l	99
18) Carbon disulfide	7.14	76	699220	14.92	ug/l	99
19) Acrylonitrile	7.21	53	523228	95.95	ug/l	98
20) tert-Butyl methyl ether (M)	7.30	73	739545	22.83	ug/l	100
21) trans-1,2-Dichloroethene	7.53	61	645814	20.40	ug/l	98
22) Isopropyl ether (DIPE)	7.99	45	1649441	23.73	ug/l	98
23) 1,1-Dichloroethane	8.18	63	759261	21.96	ug/l	99
24) Vinyl acetate	8.13	43	796613	21.49	ug/l	99
25) tert-Butyl ethyl ether (ET)	8.63	59	1128109	25.17	ug/l	97
26) 2-Butanone	8.82	43	900148	98.88	ug/l	99
27) 2,2-Dichloropropane	9.09	77	351176	23.36	ug/l	94
28) cis-1,2-Dichloroethene	9.15	61	735856	21.89	ug/l	100
30) Chloroform	9.40	83	723310	22.58	ug/l	99
31) Bromochloromethane	9.67	49	412291	21.07	ug/l	99
33) 1,1,1-Trichloroethane	10.07	97	525551	21.98	ug/l	100
35) tert-Amyl methyl ether (TA)	10.47	73	780595	24.83	ug/l	95

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D
 Acq On : 17 Mar 2006 8:35 pm
 Sample : VO03C26C 5.0mL
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Mar 17 21:06 2006

Vial: 7
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 1,1-Dichloropropene	10.32	77	165913	20.02	ug/l	95
39) Carbon tetrachloride	10.50	119	407799	21.64	ug/l	99
40) 1,2-Dichloroethane	10.69	62	669495	21.99	ug/l	99
41) Benzene	10.76	78	1337883	22.13	ug/l	99
42) Trichloroethene	11.78	130	333198	21.12	ug/l	97
44) 1,2-Dichloropropane	12.06	63	413783	21.39	ug/l	96
45) Bromodichloromethane	12.46	83	470484	20.83	ug/l	99
46) Dibromomethane	12.56	93	239967	21.64	ug/l	98
47) 2-Chloroethyl vinyl ether	12.90	63	195241	25.48	ug/l	98
48) 4-Methyl-2-pentanone	12.96	43	2289543	106.73	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	485938	20.76	ug/l	94
51) Toluene	14.03	91	1335530	22.63	ug/l	98
52) Ethyl methacrylate	14.23	69	431733	22.66	ug/l	93
53) trans-1,3-Dichloropropene	14.30	75	386713	21.69	ug/l	97
54) 1,1,2-Trichloroethane	14.64	97	282726	22.33	ug/l	99
55) 2-Hexanone	14.60	43	1467339	102.80	ug/l	97
56) 1,3-Dichloropropane	15.15	76	537951	22.67	ug/l	99
57) Tetrachloroethene	15.37	164	297065	21.88	ug/l	98
58) Dibromochloromethane	15.77	129	284491	20.67	ug/l	100
59) 1,2-Dibromoethane	16.22	107	270944	22.80	ug/l	97
60) 1-Chlorohexane	16.47	91	488104	23.03	ug/l	98
61) Chlorobenzene	17.17	112	872264	22.42	ug/l	98
62) 1,1,1,2-Tetrachloroethane	17.23	131	296537	23.33	ug/l	99
63) Ethylbenzene	17.24	91	1593002	23.00	ug/l	99
64) m-Xylene & p-Xylene	17.42	91	2651545	46.59	ug/l	100
65) o-Xylene	18.51	91	1333390	22.63	ug/l	99
66) Styrene	18.58	104	879216	21.75	ug/l	99
68) Bromoform	19.50	173	163128	18.35	ug/l	99
69) Isopropylbenzene	19.41	105	1468402	24.71	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.83	83	394545	21.91	ug/l	97
72) 1,2,3-Trichloropropane	20.23	61	102552	21.12	ug/l	94
73) trans-1,4-Dichloro-2-buten	20.38	53	84271	29.09	ug/l	87
74) n-Propylbenzene	20.50	91	1921906	22.27	ug/l	100
75) Bromobenzene	20.68	156	397220	22.39	ug/l	98
76) 2-Chlorotoluene	21.03	91	1103987	20.41	ug/l	100
77) 1,3,5-Trimethylbenzene	20.94	105	1301275	22.62	ug/l	99
78) 4-Chlorotoluene	21.15	91	1307099	21.90	ug/l	99
79) tert-Butylbenzene	21.97	119	1043227	22.51	ug/l	98
80) 1,2,4-Trimethylbenzene	22.09	105	1297419	22.11	ug/l	99
81) sec-Butylbenzene	22.61	105	1588248	21.43	ug/l	98
82) p-Isopropyltoluene	22.99	119	1282365	23.83	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D Vial: 7
 Acq On : 17 Mar 2006 8:35 pm Operator: CGM
 Sample : VO03C26C 5.0mL Inst : TO03
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Mar 17 21:06 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,3-Dichlorobenzene	23.28	146	706241	21.91	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	694610	21.25	ug/l	98
85) n-Butylbenzene	24.00	91	1407396	22.48	ug/l	100
86) 1,2-Dichlorobenzene	24.38	146	686448	22.06	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.94	157	54006	18.83	ug/l	98
88) 1,2,4-Trichlorobenzene	27.73	180	557801	22.41	ug/l	99
89) Hexachlorobutadiene	28.02	225	443493	21.69	ug/l	99
90) Naphthalene	28.30	128	945365	22.60	ug/l	100
91) 1,2,3-Trichlorobenzene	28.80	180	522873	23.15	ug/l	99

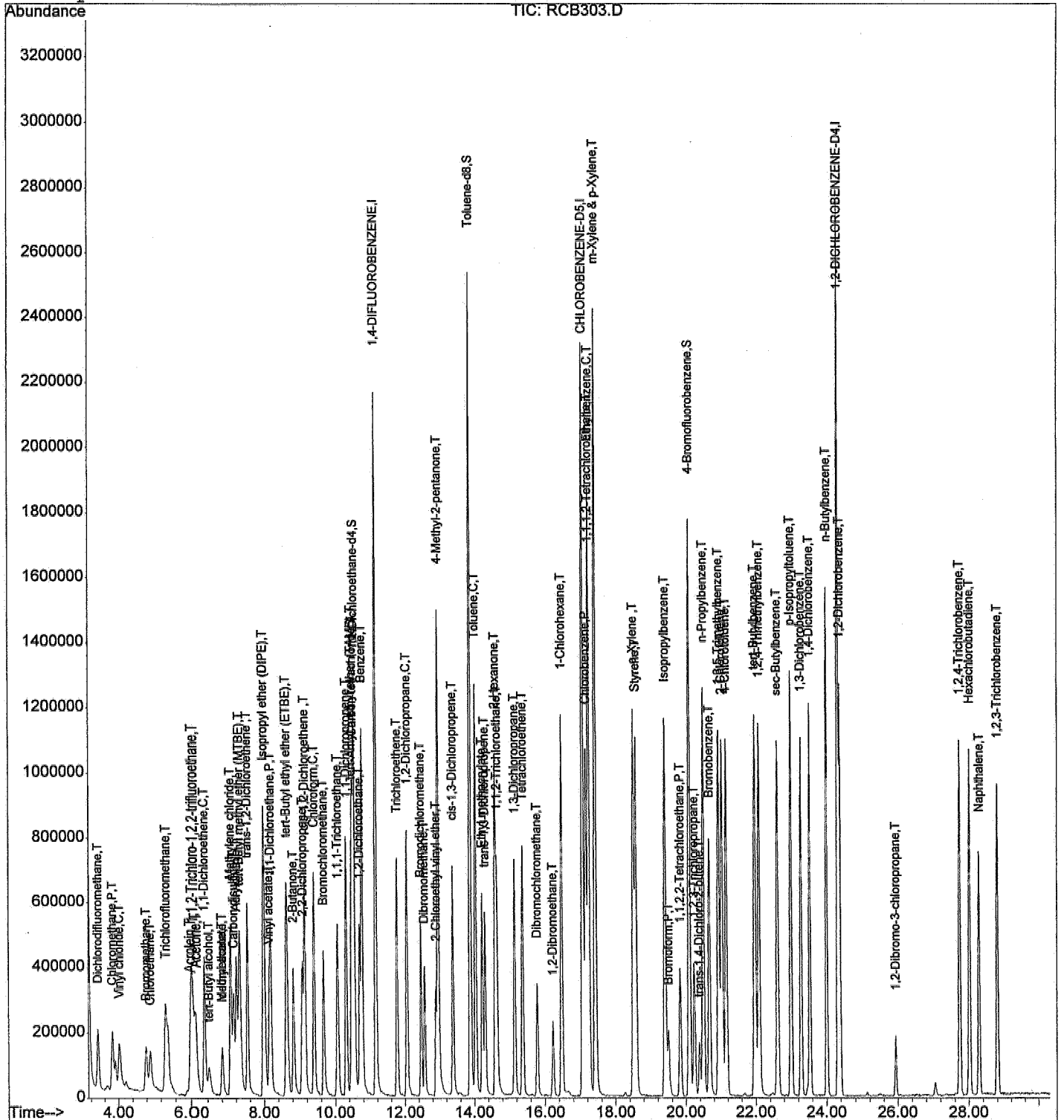
Quantitation Report

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D
Acq On : 17 Mar 2006 8:35 pm
Sample : VO03C26C 5.0mL
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
MS Integration Params: 524INT.P
Quant Time: Mar 17 21:06 2006

Vial: 7
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



INITIAL CALIBRATIONS

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
 Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
4	Vinyl chloride	0.00963	0.29076	0.9833*
17	Methylene chloride	0.04162	0.71073	0.9951
20	tert-Butyl methyl ether (MTBE)	-0.02037	0.78823	0.9954
25	tert-Butyl ethyl ether (ETBE)	-0.02603	1.08082	0.9964
49	cis-1,3-Dichloropropene	-0.02733	0.64405	0.9955
53	trans-1,3-Dichloropropene	-0.03477	0.52061	0.9960
58	Dibromochloromethane	-0.01952	0.38720	0.9963
68	Bromoform	-0.04027	0.52930	0.9954
73	trans-1,4-Dichloro-2-butene	-0.00614	0.14726	0.9981
87	1,2-Dibromo-3-chloropropane	-0.01181	0.16672	0.9957

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
 Resp_Ratio = x0 + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
4	Vinyl chloride	-0.00241	0.43478	-0.08811	0.9959

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Compound List Report TO03

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 Total Cpnds : 91

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I 1,4-DIFLUOROBENZENE	114	11.16	1.000	A	1	A	B
2	T Dichlorodifluoromethane	85	3.40	0.305	A	2	A	B
3	T Chloromethane	50	3.81	0.342	A	1	A	B
4	T Vinyl chloride	62	4.01	0.359	Q✓	1	A	B
5	T Bromomethane	94	4.77	0.427	A	1	A	B
6	T Chloroethane	64	4.90	0.439	A	2	A	B
7	T Trichlorofluoromethane	101	5.33	0.478	A	1	A	B
8	T sec-Propyl alcohol	45	5.06	0.454	A	1	A	B
9	T Acrolein	56	5.98	0.536	A	1	A	B
10	T 1,1,2-Trichloro-1,2,2-trifluor	151	6.03	0.540	A	1	A	B
11	T Acetone	43	6.09	0.546	A	1	A	B
12	T 1,1-Dichloroethene	61	6.31	0.566	A	2	A	B
13	T tert-Butyl alcohol	59	6.44	0.578	A	1	A	B
14	T Acetonitrile	39	7.29	0.654	A	2	A	B
15	T Iodomethane	142	6.82	0.611	A	2	A	B
16	T Methyl acetate	43	6.80	0.610	A	1	A	B
17	T Methylene chloride	49	7.05	0.632	L✓	2	A	B
18	T Carbon disulfide	76	7.13	0.639	A	1	A	B
19	T Acrylonitrile	53	7.22	0.647	A	2	A	B
20	T tert-Butyl methyl ether (MTBE)	73	7.31	0.655	L✓	1	A	B
21	T trans-1,2-Dichloroethene	61	7.53	0.675	A	2	A	B
22	T Isopropyl ether (DIPE)	45	7.99	0.716	A	1	A	B
23	T 1,1-Dichloroethane	63	8.18	0.734	A	2	A	B
24	T Vinyl acetate	43	8.14	0.730	A	1	A	B
25	T tert-Butyl ethyl ether (ETBE)	59	8.63	0.774	L✓	1	A	B
26	T 2-Butanone	43	8.81	0.790	A	1	A	B
27	T 2,2-Dichloropropane	77	9.07	0.813	A	3	A	B
28	T cis-1,2-Dichloroethene	61	9.15	0.820	A	2	A	B
29	T tert-Butyl formate (TBF)	59	9.15	0.820	A	2	A	B
30	T Chloroform	83	9.40	0.843	A	2	A	B
31	T Bromochloromethane	49	9.67	0.867	A	2	A	B
32	T Tetrahydrofuran	42	9.74	0.873	A	1	A	B
33	T 1,1,1-Trichloroethane	97	10.06	0.901	A	2	A	B
34	T Cyclohexane	56	10.12	0.907	A	2	A	B
35	T tert-Amyl methyl ether (TAME)	73	10.47	0.939	A	2	A	B
36	S 1,2-Dichloroethane-d4	65	10.55	0.945	A	1	A	B
37	I CHLOROENZENE-D5	117	17.07	1.000	A	2	A	B
38	T 1,1-Dichloropropene	77	10.31	0.604	A	2	A	B
39	T Carbon tetrachloride	119	10.50	0.615	A	1	A	B
40	T 1,2-Dichloroethane	62	10.69	0.627	A	2	A	B
41	T Benzene	78	10.77	0.631	A	2	A	B
42	T Trichloroethene	130	11.76	0.689	A	3	A	B
43	T Methylcyclohexane	83	11.91	0.698	A	2	A	B
44	T 1,2-Dichloropropane	63	12.05	0.706	A	2	A	B
45	T Bromodichloromethane	83	12.46	0.730	A	2	A	B
46	T Dibromomethane	93	12.57	0.736	A	2	A	B
47	T 2-Chloroethyl vinyl ether	63	12.89	0.755	A	2	A	B
48	T 4-Methyl-2-pentanone	43	12.95	0.759	A	3	A	B
49	T cis-1,3-Dichloropropene	75	13.38	0.784	L✓	3	A	B
50	S Toluene-d8	98	13.89	0.814	A	1	A	B
51	T Toluene	91	14.04	0.822	A	1	A	B
52	T Ethyl methacrylate	69	14.22	0.833	A	2	A	B
53	T trans-1,3-Dichloropropene	75	14.31	0.838	L✓	3	A	B
54	T 1,1,2-Trichloroethane	97	14.65	0.858	A	3	A	B
55	T 2-Hexanone	43	14.59	0.855	A	2	A	B
56	T 1,3-Dichloropropane	76	15.15	0.888	A	2	A	B
57	T Tetrachloroethene	164	15.38	0.901	A	3	A	B
58	T Dibromochloromethane	129	15.78	0.924	L✓	2	A	B
59	T 1,2-Dibromoethane	107	16.22	0.950	A	1	A	B
60	T 1-Chlorohexane	91	16.47	0.965	A	3	A	B
61	P Chlorobenzene	112	17.16	1.005	A	3	A	B

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62	T	1,1,1,2-Tetrachloroethane	131	17.23	1.010	A	3	A	B
63	T	Ethylbenzene	91	17.25	1.010	A	1	A	B
64	T	m-Xylene & p-Xylene	91	17.43	1.021	A	1	A	B
65	T	o-Xylene	91	18.51	1.084	A	1	A	B
66	T	Styrene	104	18.58	1.089	A	2	A	B
67	I	1,2-DICHLOROBENZENE-D4	152	24.32	1.000	A	1	A	B
68	T	Bromoform	173	19.49	0.801	L✓	2	A	B
69	T	Isopropylbenzene	105	19.40	0.798	A	3	A	B
70	T	1,1,2,2-Tetrachloroethane	83	19.83	0.815	A	2	A	B
71	S	4-Bromofluorobenzene	95	20.10	0.826	A	2	A	B
72	T	1,2,3-Trichloropropane	61	20.23	0.832	A	2	A	B
73	T	trans-1,4-Dichloro-2-butene	53	20.38	0.838	L✓	1	A	B
74	T	n-Propylbenzene	91	20.49	0.842	A	2	A	B
75	T	Bromobenzene	156	20.66	0.850	A	2	A	B
76	T	2-Chlorotoluene	91	21.04	0.865	A	1	A	B
77	T	1,3,5-Trimethylbenzene	105	20.93	0.861	A	2	A	B
78	T	4-Chlorotoluene	91	21.16	0.870	A	1	A	B
79	T	tert-Butylbenzene	119	21.97	0.903	A	2	A	B
80	T	1,2,4-Trimethylbenzene	105	22.09	0.908	A	1	A	B
81	T	sec-Butylbenzene	105	22.61	0.930	A	1	A	B
82	T	p-Isopropyltoluene	119	23.00	0.946	A	2	A	B
83	T	1,3-Dichlorobenzene	146	23.28	0.957	A	2	A	B
84	T	1,4-Dichlorobenzene	146	23.53	0.968	A	2	A	B
85	T	n-Butylbenzene	91	23.99	0.987	A	2	A	B
86	T	1,2-Dichlorobenzene	146	24.38	1.002	A	2	A	B
87	T	1,2-Dibromo-3-chloropropane	157	25.94	1.067	L✓	2	A	B
88	T	1,2,4-Trichlorobenzene	180	27.74	1.141	A	2	A	B
89	T	Hexachlorobutadiene	225	28.02	1.152	A	2	A	B
90	T	Naphthalene	128	28.29	1.163	A	1	A	B
91	T	1,2,3-Trichlorobenzene	180	28.81	1.185	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

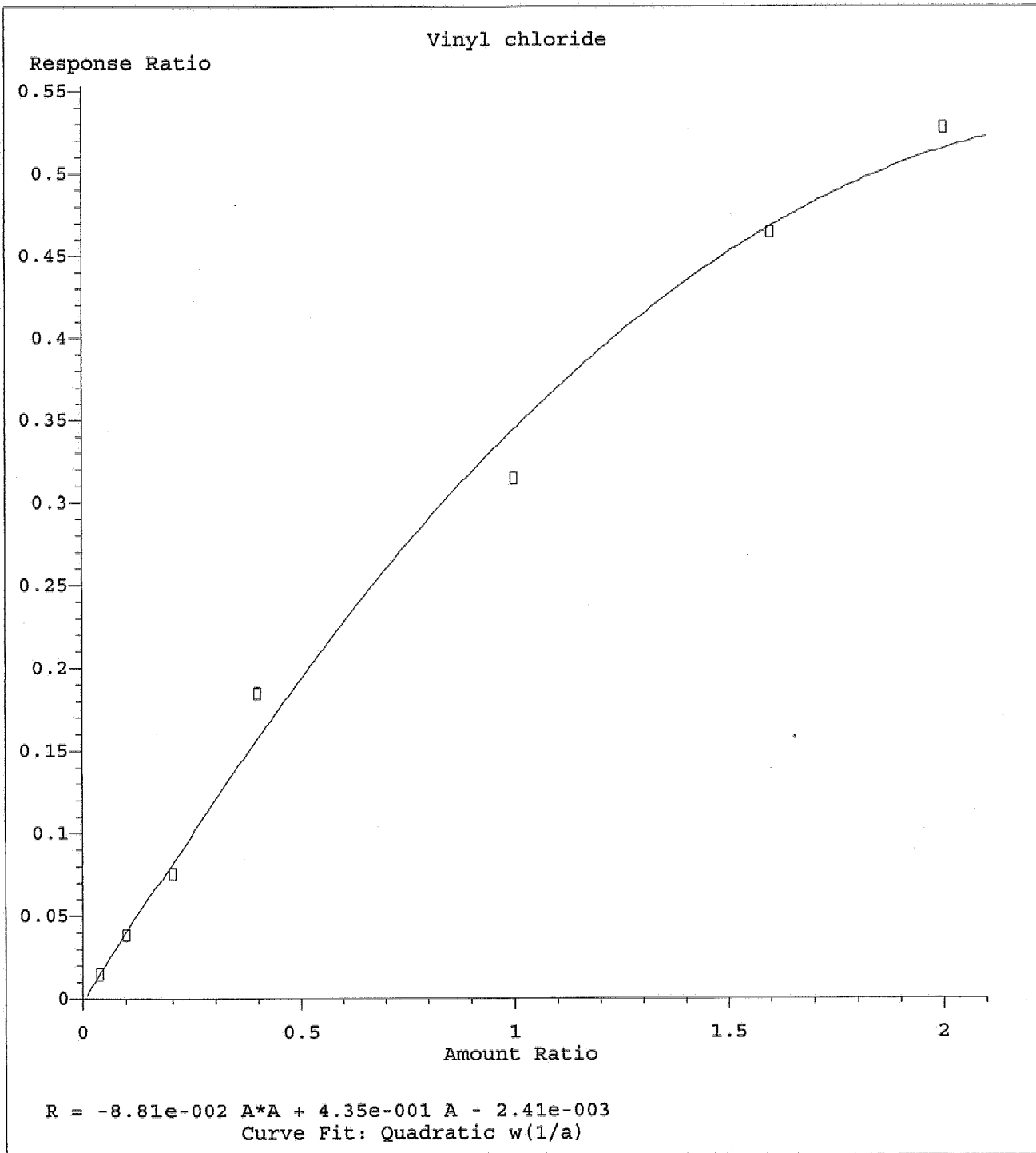
A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

 VO03B03.M Mon Feb 06 13:21:35 2006

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2-9-06*

2029

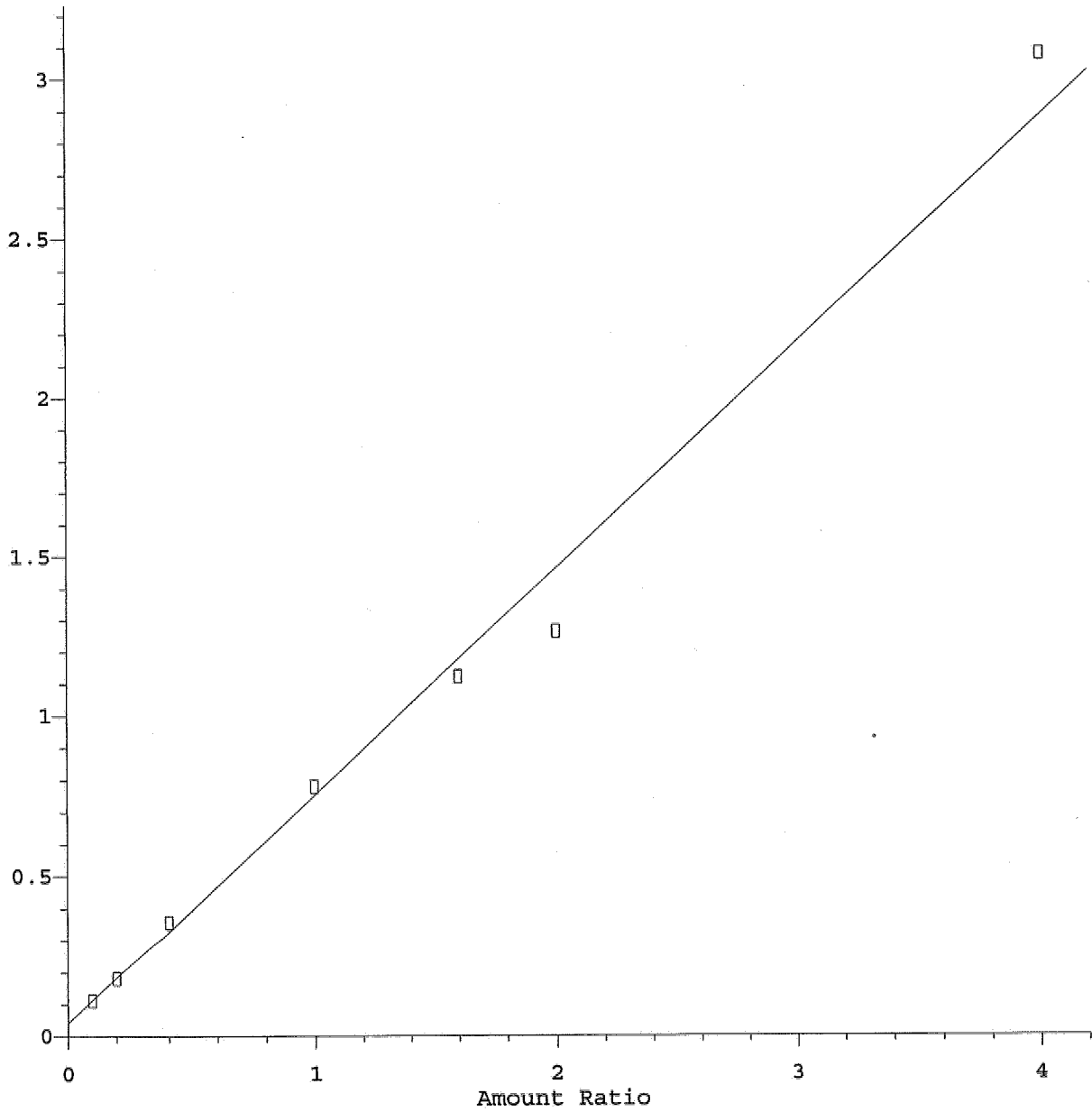


Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
 Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

*Ru
2-9-06*

Methylene chloride

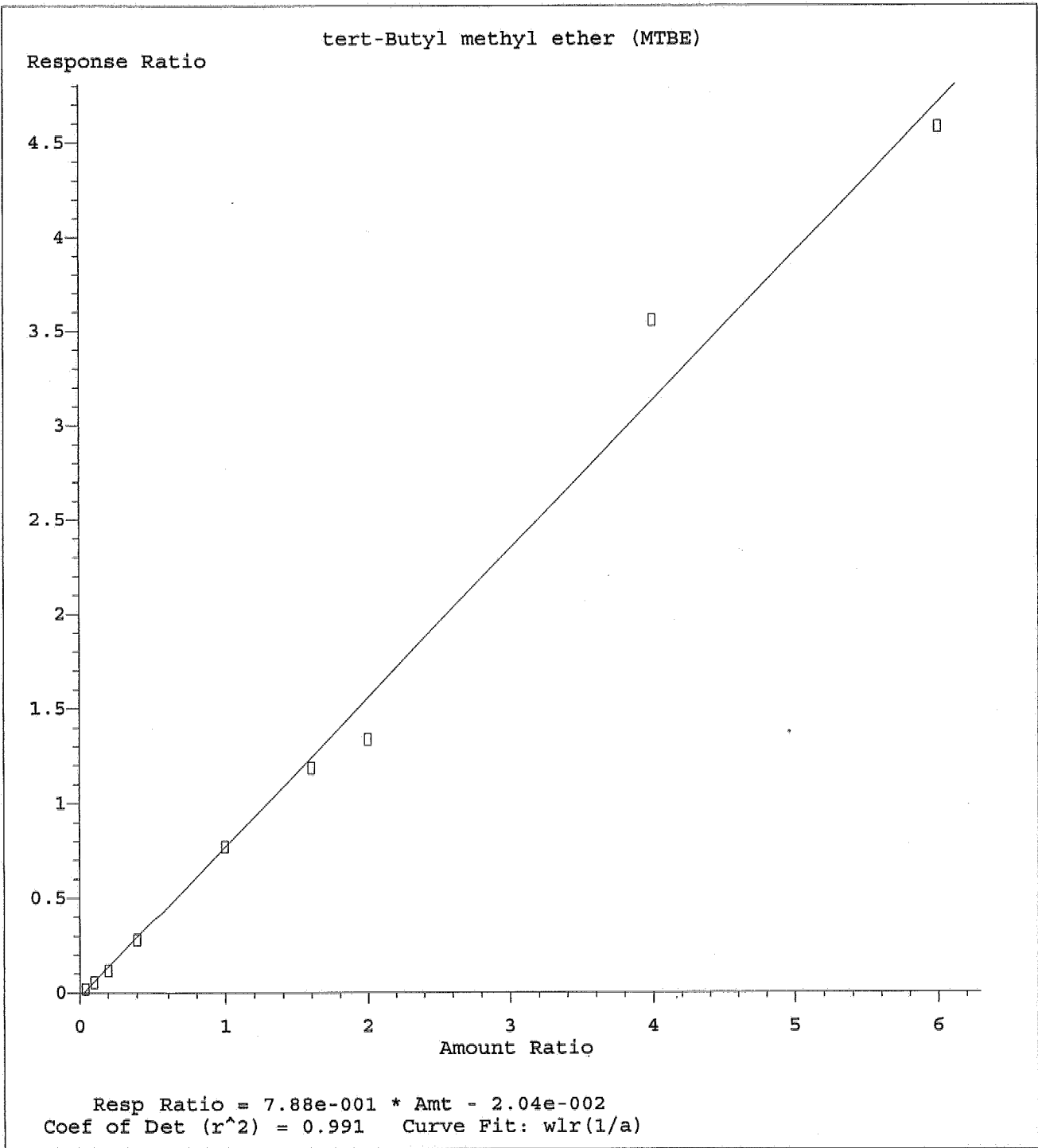
Response Ratio



Resp Ratio = $7.11e-001 * Amt + 4.16e-002$
Coef of Det (r^2) = 0.990 Curve Fit: wlr(1/a)

Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

FW
2-9-06

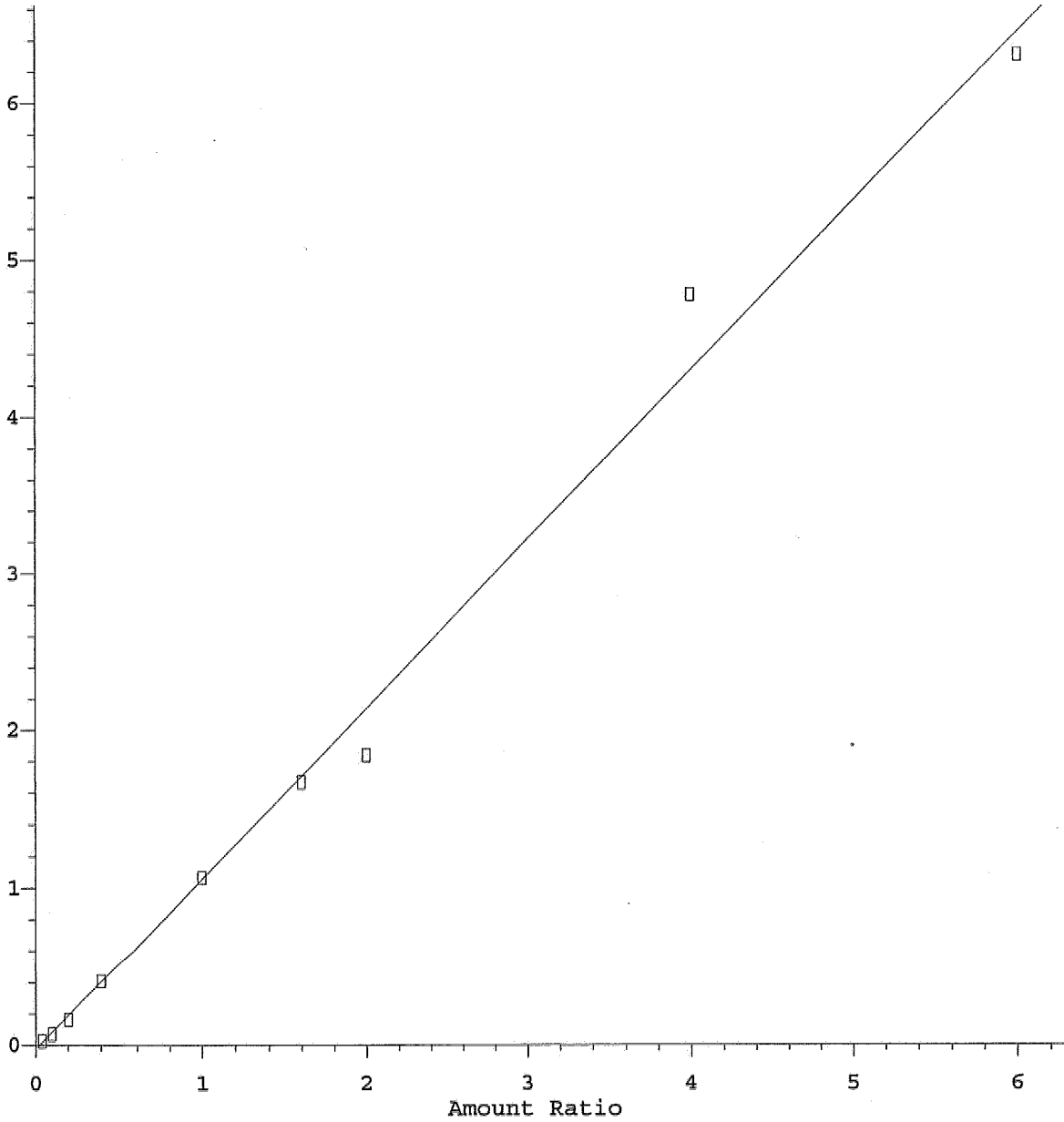


Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
 Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

rw
2-9-06

tert-Butyl ethyl ether (ETBE)

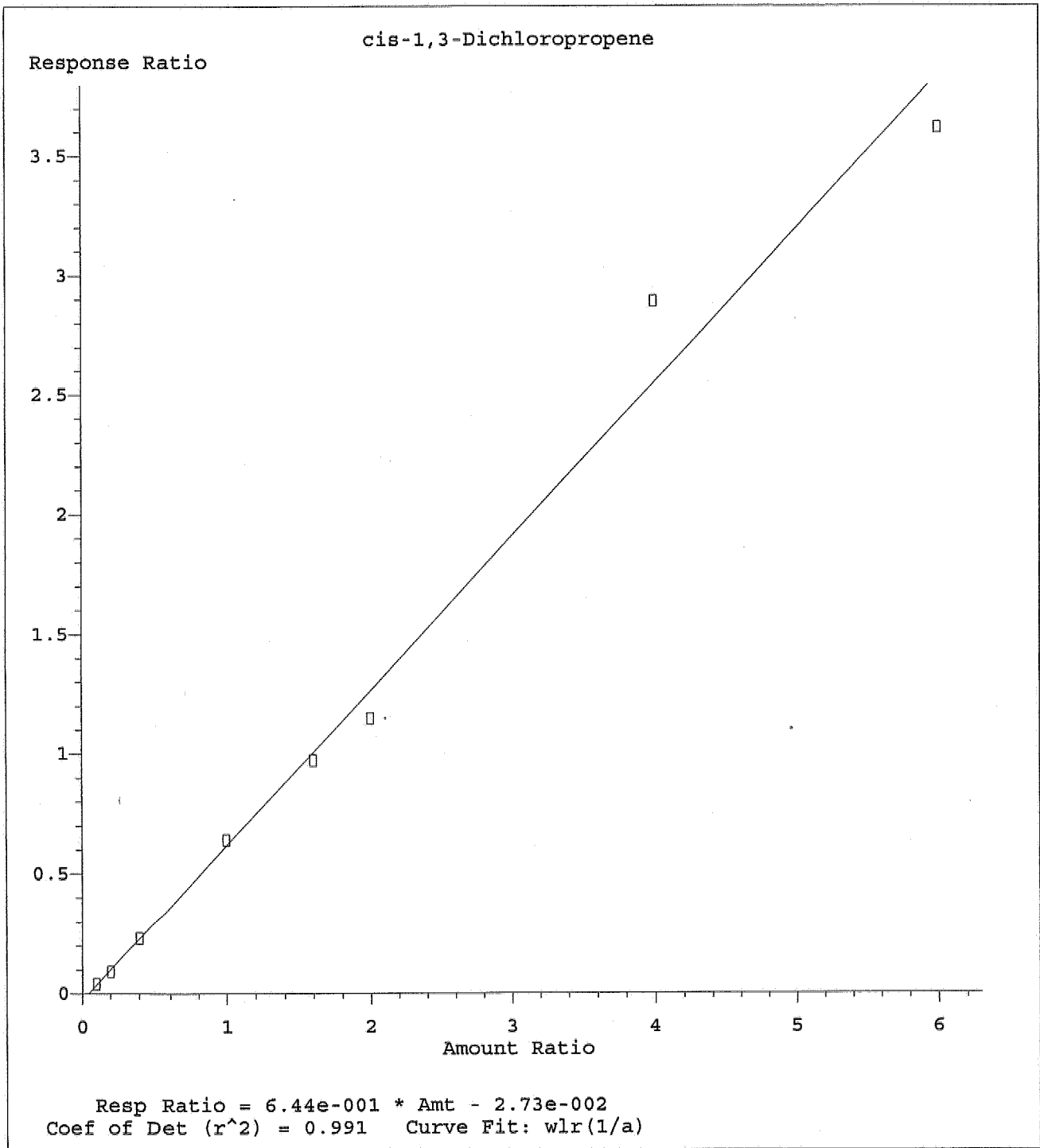
Response Ratio



Resp Ratio = 1.08e+000 * Amt - 2.60e-002
Coef of Det (r²) = 0.993 Curve Fit: wlr(1/a)

Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

ML
2-9-06

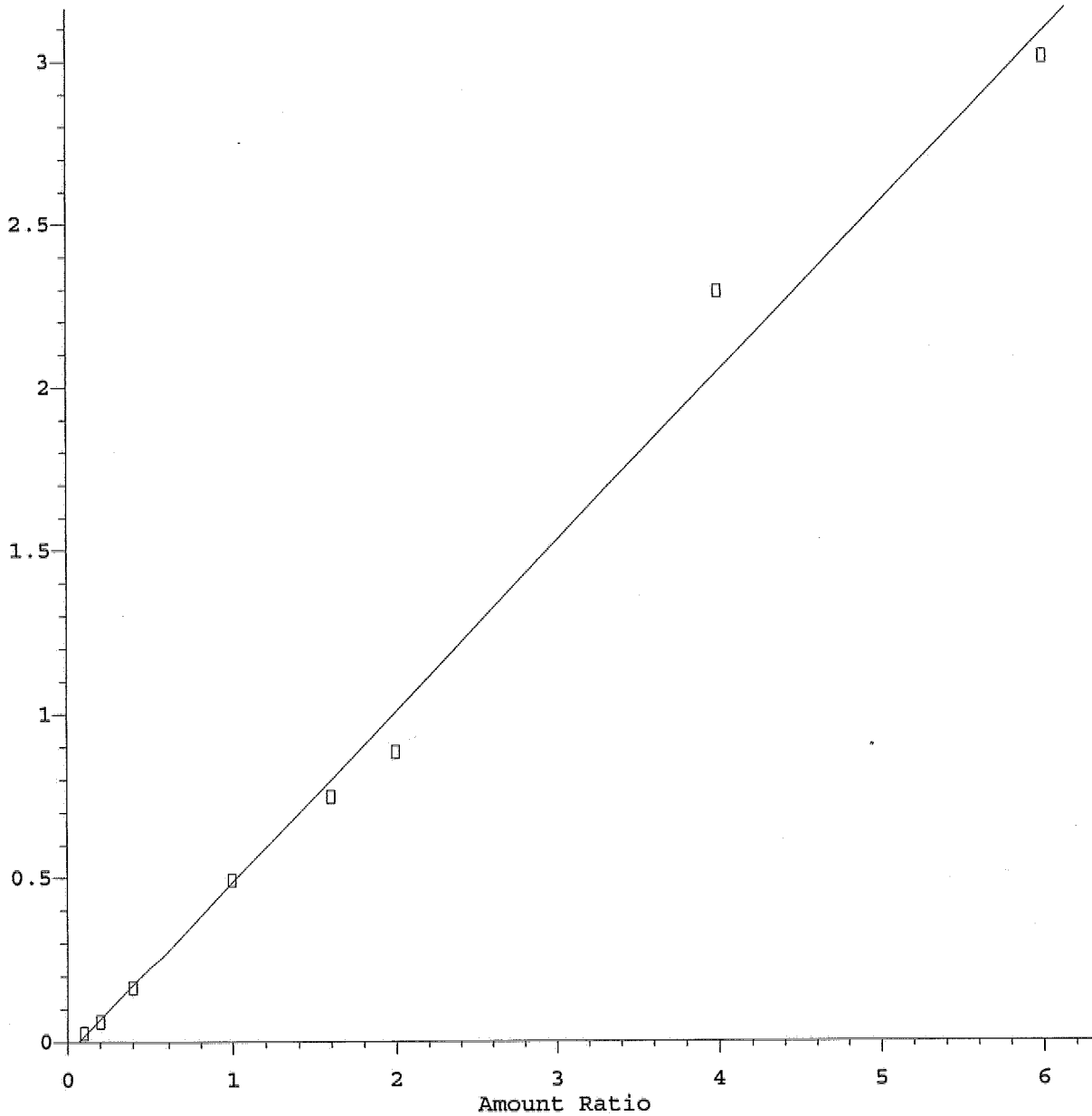


Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

mu
2-9-06

trans-1,3-Dichloropropene

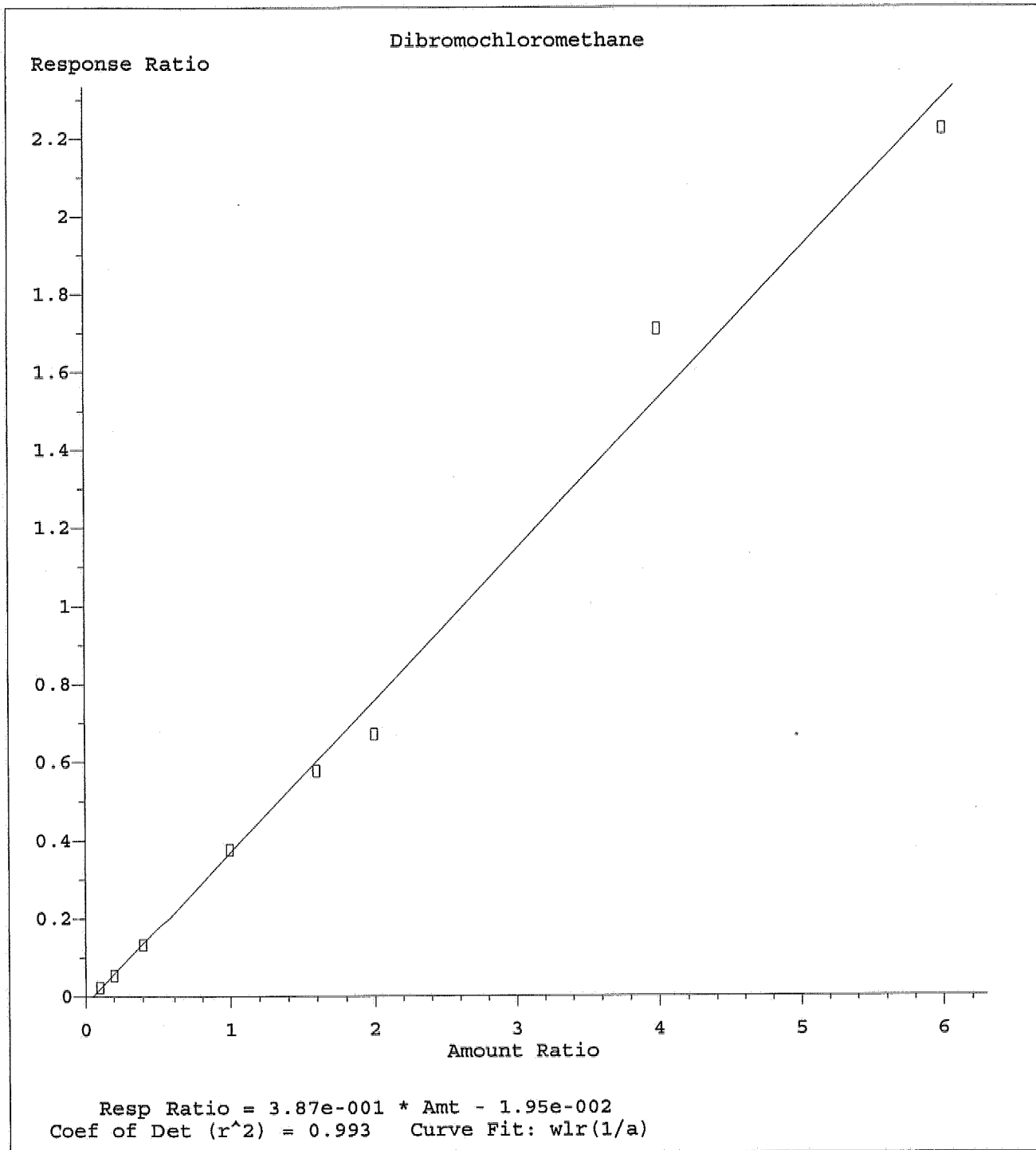
Response Ratio



Resp Ratio = $5.21e-001 * Amt - 3.48e-002$
Coef of Det (r^2) = 0.992 Curve Fit: wlr(1/a)

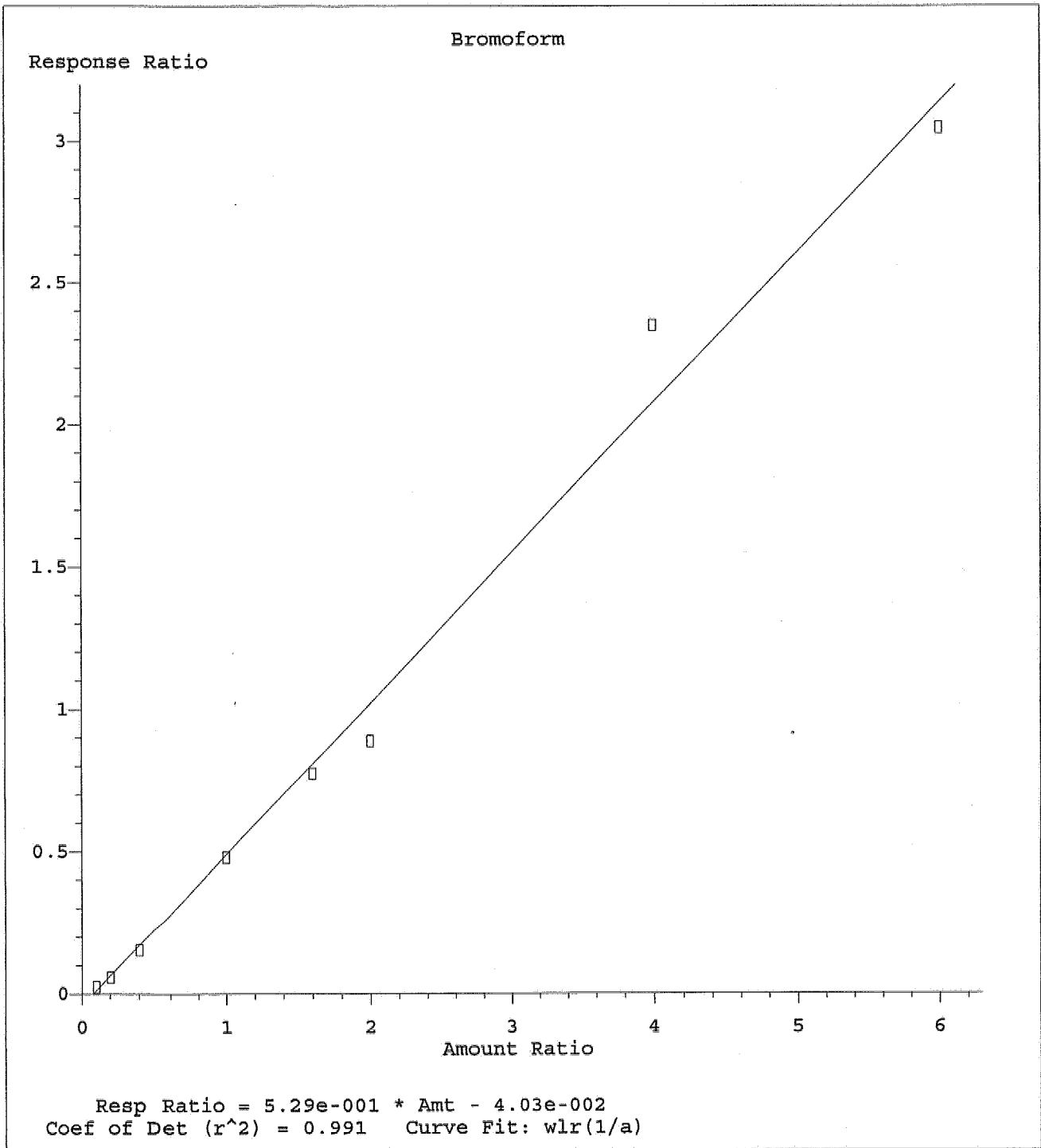
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

pu
8-9-06



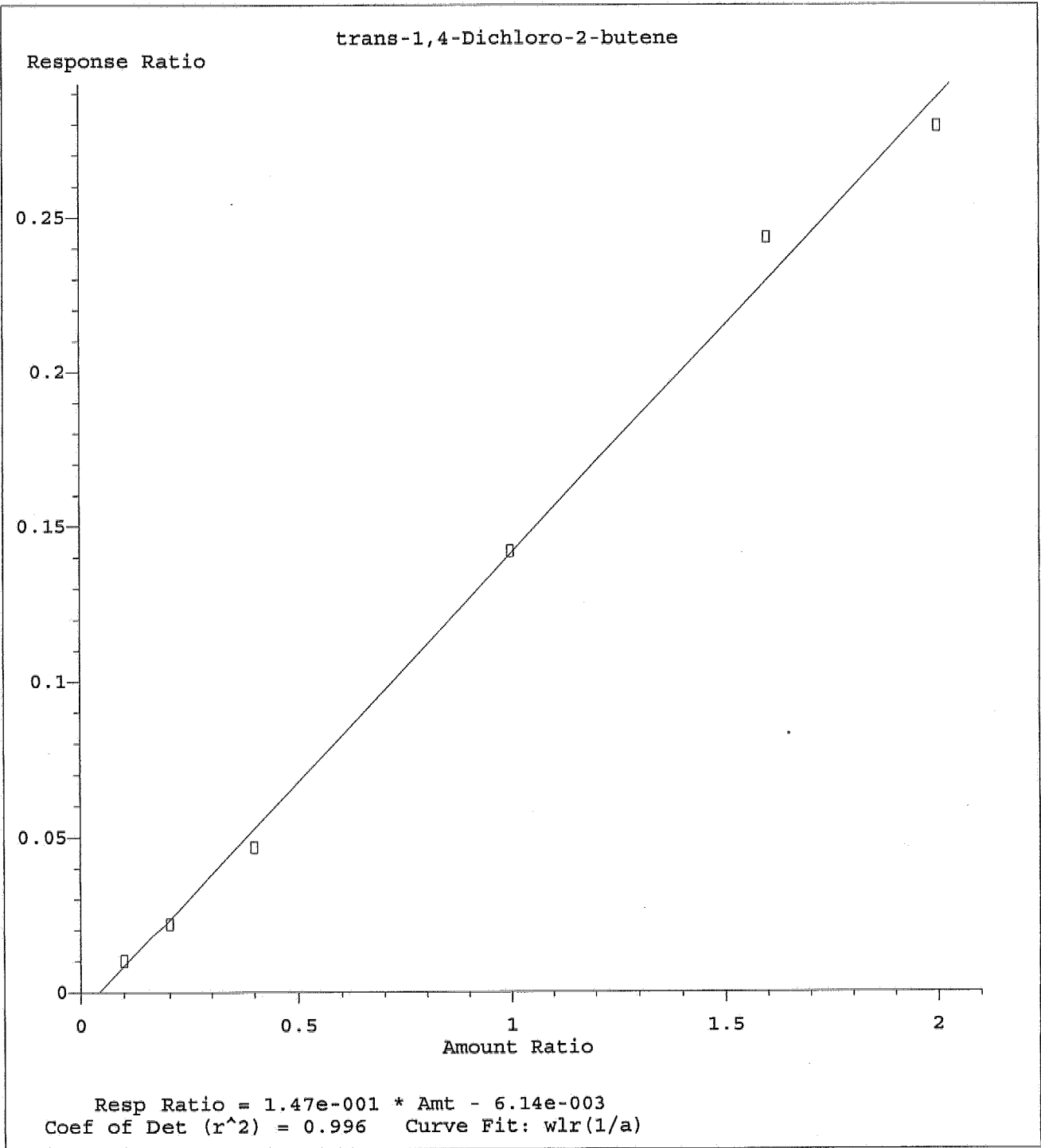
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

ra
2-9-06



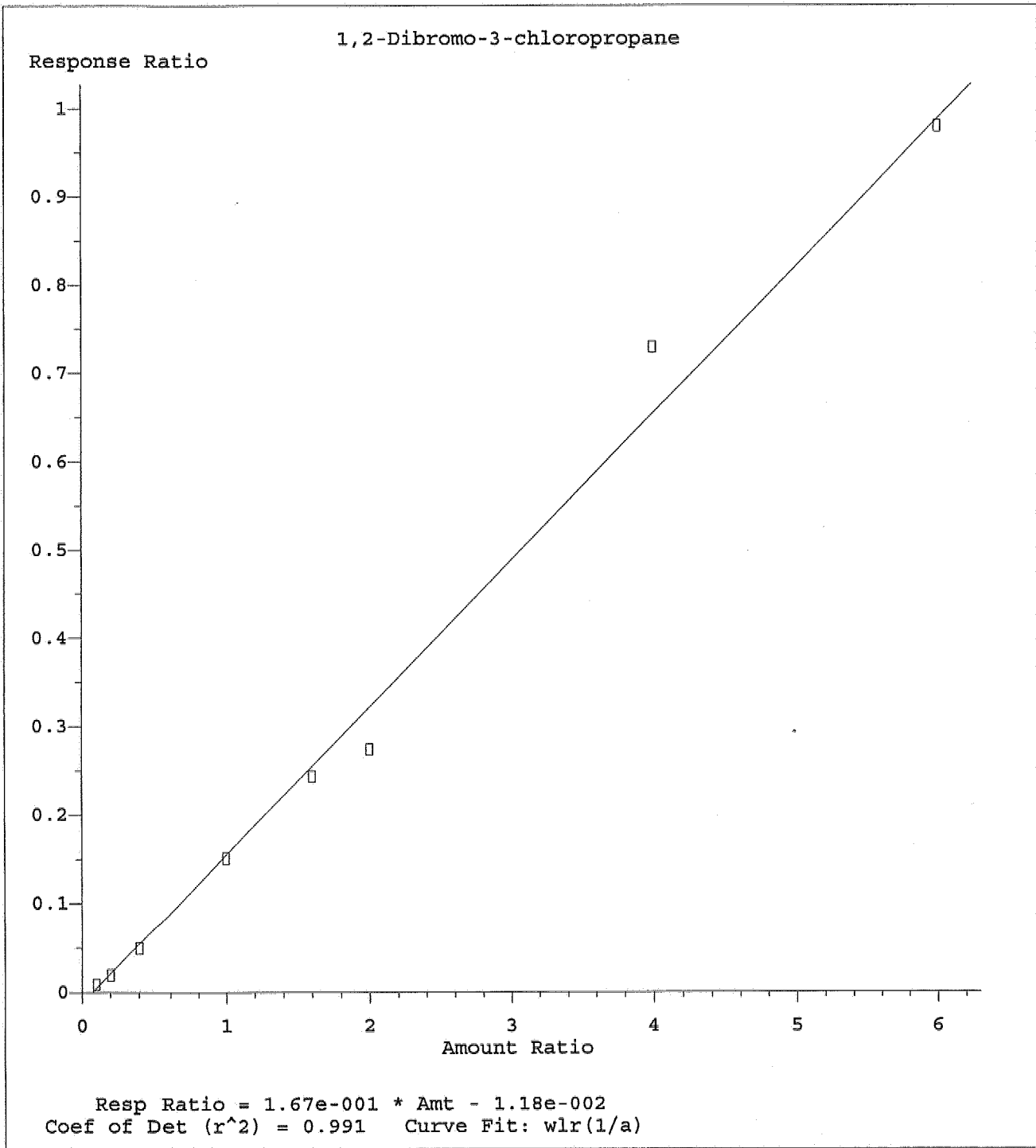
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

pu
2-9-06



Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

rw
2-9-06



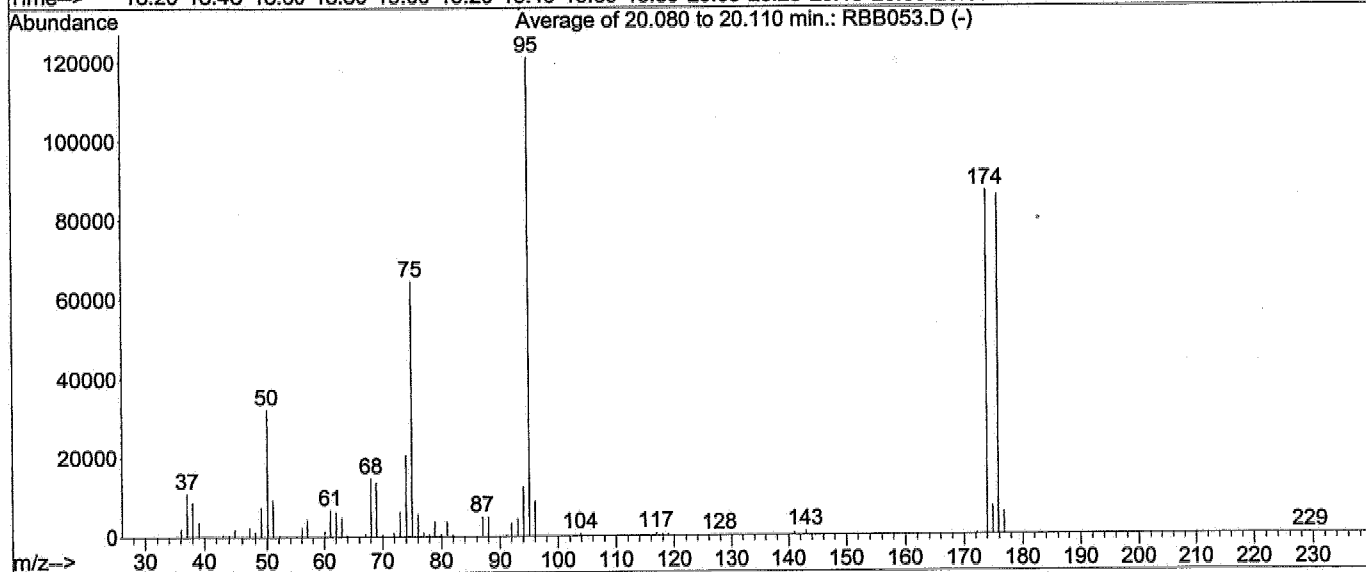
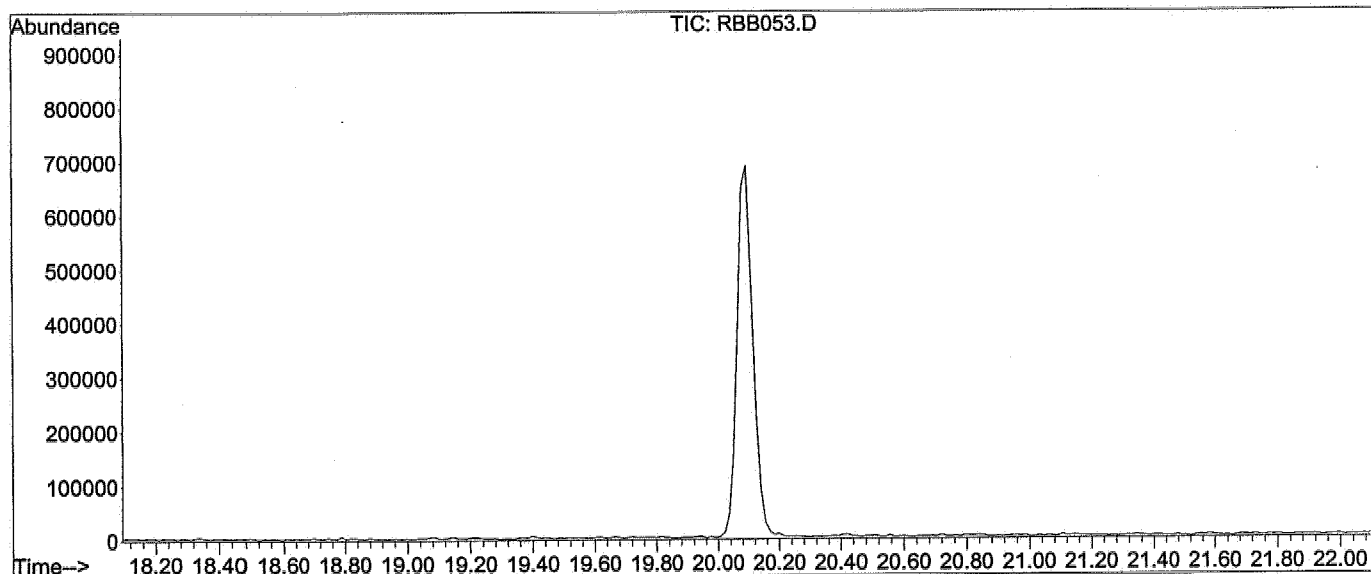
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
 Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

pu
2-9-06

BFB

Data File : D:\HPCHEM\1\DATA\06B03\RBB053.D
Acq On : 3 Feb 2006 1:03 pm
Sample : BFB03B05
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260

Vial: 1
Operator: CGM
Inst : TO03
Multiplr: 1.00



AutoFind: Scans 1142, 1143, 1144; Background Corrected with Scan 1135

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	32400	PASS
75	95	30	60	53.2	64544	PASS
95	95	100	100	100.0	121299	PASS
96	95	5	9	7.4	8956	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.7	87029	PASS
175	174	5	9	8.3	7199	PASS
176	174	95	101	98.6	85840	PASS
177	176	5	9	6.7	5738	PASS

Handwritten: 2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB054.D
 Acq On : 3 Feb 2006 1:40 pm
 Sample : VO03B031 2/8/10
 Misc : 2ppb 8260/8ppb Ket-AA/10ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:38 2006

Vial: 2
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:36:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2510783	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.07	117	2466285	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1230324	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2-Dichloroethane-d4	10.55	65	54297	2.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	4.74%	
50) Toluene-d8	13.89	98	96431	1.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	3.74%	
71) 4-Bromofluorobenzene	20.10	95	51851	2.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	4.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.38	85	41530	1.80	ug/l	91
3) Chloromethane	3.83	50	61997	2.32	ug/l	97
4) Vinyl chloride	4.01	62	37388	2.37	ug/l	93
5) Bromomethane	4.77	94	24763	1.83	ug/l	98
6) Chloroethane	4.90	64	21820	1.98	ug/l	98
7) Trichlorofluoromethane	5.33	101	50741	2.09	ug/l	97
9) Acrolein	5.98	56	13546	5.93	ug/l	86
10) 1,1,2-Trichloro-1,2,2-trif	6.03	151	27715	2.18	ug/l	88
11) Acetone	6.10	43	72761	9.35	ug/l	98
12) 1,1-Dichloroethene	6.31	61	84782	2.22	ug/l	97
13) tert-Butyl alcohol	6.47	59	12627	8.10	ug/l	# 1
15) Iodomethane	6.82	142	27486	1.63	ug/l	94
16) Methyl acetate	6.80	43	44903	2.27	ug/l	89
17) Methylene chloride	7.05	49	185404	4.73	ug/l	98
18) Carbon disulfide	7.13	76	98885	1.72	ug/l	96
19) Acrylonitrile	7.22	53	46266	6.94	ug/l	93
20) tert-Butyl methyl ether (M	7.32	73	50829	1.32	ug/l	96
21) trans-1,2-Dichloroethene	7.53	61	74296	1.95	ug/l	98
22) Isopropyl ether (DIPE)	8.01	45	142177	1.65	ug/l	99
23) 1,1-Dichloroethane	8.18	63	79788	1.91	ug/l	97
24) Vinyl acetate	8.15	43	65241	1.37	ug/l	95
25) tert-Butyl ethyl ether (ET	8.64	59	70803	1.32	ug/l	96
26) 2-Butanone	8.84	43	74708	6.51	ug/l	95
27) 2,2-Dichloropropane	9.07	77	26979	1.35	ug/l	87
28) cis-1,2-Dichloroethene	9.15	61	74810	1.83	ug/l	98
30) Chloroform	9.40	83	76945	2.01	ug/l	98
31) Bromochloromethane	9.67	49	48182	2.08	ug/l	96
32) Tetrahydrofuran	9.77	42	26227	3.94	ug/l	77
33) 1,1,1-Trichloroethane	10.07	97	47404	1.57	ug/l	93
34) Cyclohexane	10.13	56	65987	1.69	ug/l	95
35) tert-Amyl methyl ether (TA	10.49	73	50766	1.26	ug/l	78
38) 1,1-Dichloropropene	10.31	77	18284	1.69	ug/l	98
39) Carbon tetrachloride	10.50	119	31323	1.25	ug/l	97
40) 1,2-Dichloroethane	10.69	62	74680	1.95	ug/l	97
41) Benzene	10.77	78	142375	1.83	ug/l	98
42) Trichloroethene	11.76	130	36376	1.81	ug/l	95
43) Methylcyclohexane	11.91	83	52954	1.58	ug/l	96
44) 1,2-Dichloropropane	12.05	63	43628	1.77	ug/l	90

(#) = qualifier out of range (m) = manual integration
 RBB054.D VO03B03.M Mon Feb 06 19:20:49 2006

Handwritten: 2-a-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB054.D
 Acq On : 3 Feb 2006 1:40 pm
 Sample : VO03B031 2/8/10
 Misc : 2ppb 8260/8ppb Ket-AA/10ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:38 2006

Vial: 2
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:36:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	44088	1.43	ug/l	93
46) Dibromomethane	12.57	93	25628	1.76	ug/l	95
47) 2-Chloroethyl vinyl ether	12.91	63	11925	1.21	ug/l	89
48) 4-Methyl-2-pentanone	12.98	43	168116	5.74	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	35343	1.12	ug/l	89
51) Toluene	14.04	91	143682	1.88	ug/l	95
52) Ethyl methacrylate	14.23	69	32855	1.29	ug/l	85
53) trans-1,3-Dichloropropene	14.31	75	22811	0.94	ug/l	98
54) 1,1,2-Trichloroethane	14.65	97	30242	1.82	ug/l	91
55) 2-Hexanone	14.62	43	112289	5.80	ug/l	92
56) 1,3-Dichloropropane	15.15	76	53687	1.70	ug/l	96
57) Tetrachloroethene	15.36	164	33684	1.93	ug/l	95
58) Dibromochloromethane	15.79	129	20499	1.10	ug/l	94
59) 1,2-Dibromoethane	16.22	107	24227	1.50	ug/l	94
60) 1-Chlorohexane	16.47	91	40399	1.40	ug/l	89
61) Chlorobenzene	17.16	112	99605	2.00	ug/l	96
62) 1,1,1,2-Tetrachloroethane	17.23	131	24678	1.41	ug/l #	69
63) Ethylbenzene	17.25	91	170862	1.88	ug/l	100
64) m-Xylene & p-Xylene	17.43	91	285035	3.75	ug/l	100
65) o-Xylene	18.50	91	129300	1.63	ug/l	100
66) Styrene	18.57	104	84523	1.55	ug/l	97
68) Bromoform	19.51	173	10496	0.89	ug/l	93
69) Isopropylbenzene	19.40	105	123054	1.63	ug/l	97
70) 1,1,2,2-Tetrachloroethane	19.83	83	36570	1.63	ug/l	94
72) 1,2,3-Trichloropropane	20.23	61	12253	2.17	ug/l	83
73) trans-1,4-Dichloro-2-buten	20.37	53	5886	1.68	ug/l #	35
74) n-Propylbenzene	20.49	91	178946	1.64	ug/l	98
75) Bromobenzene	20.67	156	39836	1.80	ug/l	96
76) 2-Chlorotoluene	21.02	91	154178	2.47	ug/l	86
77) 1,3,5-Trimethylbenzene	20.93	105	117832	1.61	ug/l	99
78) 4-Chlorotoluene	21.16	91	135889	1.84	ug/l	97
79) tert-Butylbenzene	21.97	119	95773	1.66	ug/l	94
80) 1,2,4-Trimethylbenzene	22.09	105	127179	1.74	ug/l	97
81) sec-Butylbenzene	22.61	105	152893	1.64	ug/l	98
82) p-Isopropyltoluene	23.00	119	107143	1.56	ug/l	97
83) 1,3-Dichlorobenzene	23.27	146	78202	1.97	ug/l	98
84) 1,4-Dichlorobenzene	23.53	146	78481	1.94	ug/l	97
85) n-Butylbenzene	23.99	91	131162	1.66	ug/l	99
86) 1,2-Dichlorobenzene	24.38	146	79628	2.11	ug/l	76
87) 1,2-Dibromo-3-chloropropan	25.94	157	3800	1.02	ug/l #	73
88) 1,2,4-Trichlorobenzene	27.74	180	56213	1.87	ug/l	98
89) Hexachlorobutadiene	28.02	225	48785	2.02	ug/l	98
90) Naphthalene	28.29	128	80814	1.51	ug/l	98
91) 1,2,3-Trichlorobenzene	28.79	180	51200	1.86	ug/l	98

(#) = qualifier out of range (m) = manual integration

RBB054.D VO03B03.M Mon Feb 06 19:20:49 2006

2042

Run 2-9-06

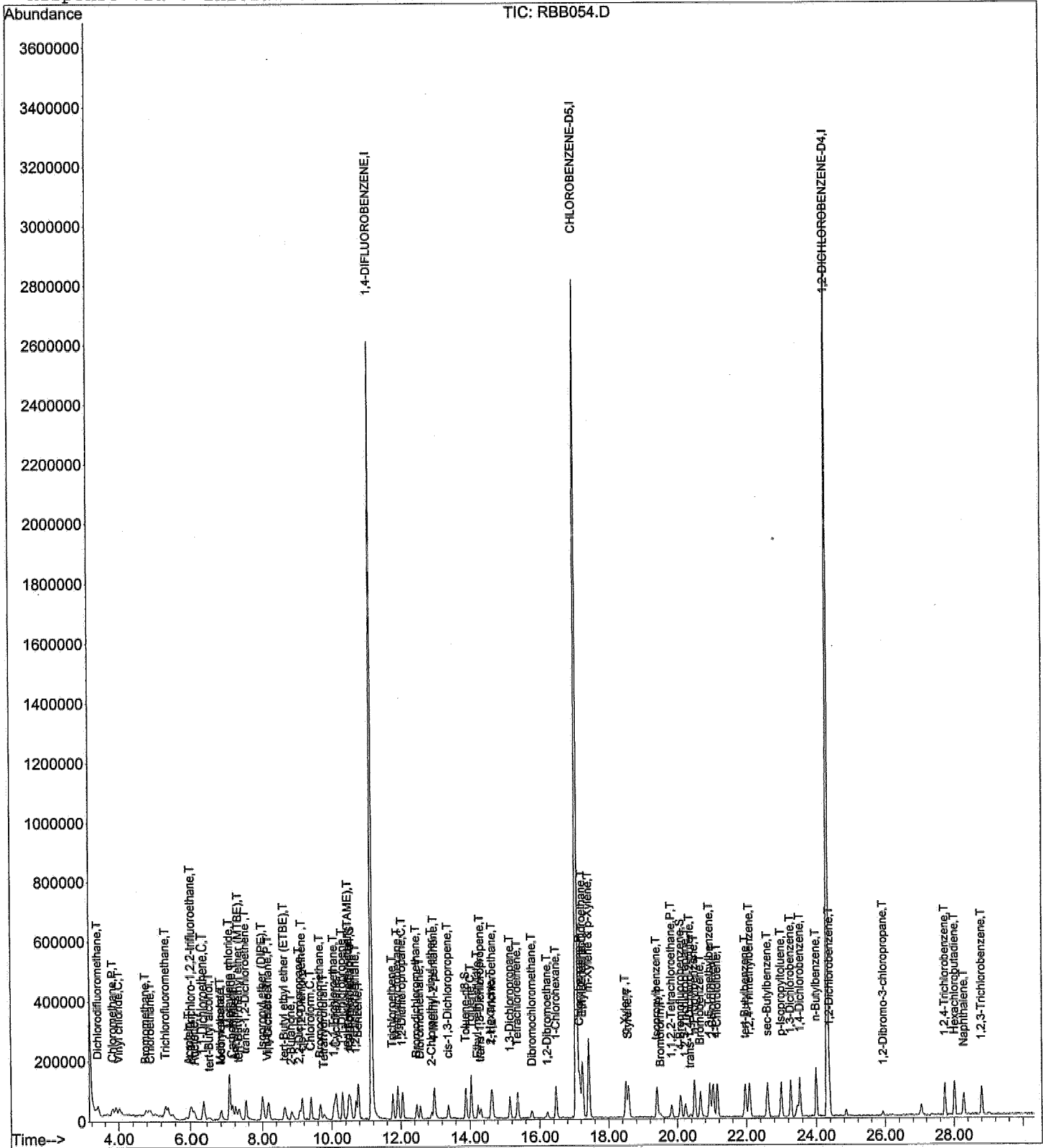
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB054.D
Acq On : 3 Feb 2006 1:40 pm
Sample : VO03B031 2/8/10
Misc : 2ppb 8260/8ppb Ket-AA/10ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:38 2006

Vial: 2
Operator: CGM
Inst : T003
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Handwritten: 2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB055.D
 Acq On : 3 Feb 2006 2:17 pm
 Sample : VO03B032 5/20/25
 Misc : 5ppb 8260/20ppb Ket-AA/25ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:39 2006

Vial: 3
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:39:18 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2540899	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.07	117	2376505	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1156593	50.00	ug/l	0.00

System Monitoring Compounds

36) 1,2-Dichloroethane-d4	10.54	65	131877	5.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.40%	
50) Toluene-d8	13.89	98	258877	5.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.78%	
71) 4-Bromofluorobenzene	20.08	95	126718	5.28	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	10.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.38	85	116580	5.25	ug/l	96
3) Chloromethane	3.81	50	139159	4.77	ug/l	94
4) Vinyl chloride	4.02	62	97621	5.60	ug/l	97
5) Bromomethane	4.76	94	60881	4.64	ug/l	92
6) Chloroethane	4.88	64	53701	4.85	ug/l	96
7) Trichlorofluoromethane	5.31	101	125984	5.01	ug/l	99
9) Acrolein	5.98	56	39293	19.52	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	6.03	151	61117	4.54	ug/l	95
11) Acetone	6.10	43	155161	18.17	ug/l	100
12) 1,1-Dichloroethene	6.31	61	199681	4.90	ug/l	100
13) tert-Butyl alcohol	6.44	59	27805	19.48	ug/l #	50
15) Iodomethane	6.81	142	72636	4.69	ug/l	96
16) Methyl acetate	6.80	43	86653	4.06	ug/l	98
17) Methylene chloride	7.05	49	283488	4.25	ug/l	98
18) Carbon disulfide	7.13	76	260280	4.81	ug/l	100
19) Acrylonitrile	7.22	53	116557	18.51	ug/l	97
20) tert-Butyl methyl ether (M	7.32	73	139038	4.29	ug/l	98
21) trans-1,2-Dichloroethene	7.53	61	182632	4.80	ug/l	98
22) Isopropyl ether (DIPE)	8.00	45	364077	4.57	ug/l	100
23) 1,1-Dichloroethane	8.18	63	200596	4.86	ug/l	99
24) Vinyl acetate	8.14	43	184403	4.54	ug/l	100
25) tert-Butyl ethyl ether (ET	8.64	59	185630	4.12	ug/l	97
26) 2-Butanone	8.84	43	178303	16.93	ug/l	99
27) 2,2-Dichloropropane	9.07	77	73601	4.34	ug/l	91
28) cis-1,2-Dichloroethene	9.13	61	188044	4.75	ug/l	99
30) Chloroform	9.40	83	188394	4.85	ug/l	98
31) Bromochloromethane	9.67	49	115668	4.84	ug/l	98
32) Tetrahydrofuran	9.76	42	52262	7.82	ug/l	98
33) 1,1,1-Trichloroethane	10.05	97	129262	4.74	ug/l	98
34) Cyclohexane	10.13	56	171642	4.71	ug/l	98
35) tert-Amyl methyl ether (TA	10.48	73	143548	4.32	ug/l	88
38) 1,1-Dichloropropene	10.31	77	48291	5.02	ug/l	93
39) Carbon tetrachloride	10.50	119	87734	4.47	ug/l	98
40) 1,2-Dichloroethane	10.69	62	183264	5.03	ug/l	100
41) Benzene	10.77	78	360108	5.01	ug/l	99
42) Trichloroethene	11.78	130	93578	5.07	ug/l	95
43) Methylcyclohexane	11.91	83	139745	4.84	ug/l	98
44) 1,2-Dichloropropane	12.04	63	113229	5.05	ug/l	96

(#) = qualifier out of range (m) = manual integration

Handwritten: m-a-06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB055.D
 Acq On : 3 Feb 2006 2:17 pm
 Sample : VO03B032 5/20/25
 Misc : 5ppb 8260/20ppb Ket-AA/25ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:39 2006

Vial: 3
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:39:18 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	109961	4.32	ug/l	98
46) Dibromomethane	12.56	93	66952	5.08	ug/l	91
47) 2-Chloroethyl vinyl ether	12.89	63	34134	4.47	ug/l	94
48) 4-Methyl-2-pentanone	12.97	43	435712	17.97	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	97961	4.13	ug/l	94
51) Toluene	14.04	91	349356	4.89	ug/l	100
52) Ethyl methacrylate	14.23	69	86851	4.30	ug/l	94
53) trans-1,3-Dichloropropene	14.30	75	63927	3.71	ug/l	86
54) 1,1,2-Trichloroethane	14.65	97	71042	4.65	ug/l	98
55) 2-Hexanone	14.60	43	288367	17.92	ug/l	97
56) 1,3-Dichloropropane	15.15	76	129595	4.60	ug/l	98
57) Tetrachloroethene	15.36	164	82813	5.01	ug/l	98
58) Dibromochloromethane	15.77	129	55818	4.02	ug/l	95
59) 1,2-Dibromoethane	16.22	107	65117	4.78	ug/l	98
60) 1-Chlorohexane	16.47	91	110416	4.67	ug/l	90
61) Chlorobenzene	17.16	112	241217	5.03	ug/l	96
62) 1,1,1,2-Tetrachloroethane	17.23	131	63469	4.41	ug/l	93
63) Ethylbenzene	17.25	91	424938	5.00	ug/l	99
64) m-Xylene & p-Xylene	17.42	91	713271	10.05	ug/l	100
65) o-Xylene	18.51	91	329150	4.75	ug/l	99
66) Styrene	18.58	104	225529	4.84	ug/l	99
68) Bromoform	19.49	173	28640	3.58	ug/l	95
69) Isopropylbenzene	19.40	105	323554	5.02	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.82	83	94265	4.93	ug/l	98
72) 1,2,3-Trichloropropane	20.22	61	25866	4.68	ug/l	92
73) trans-1,4-Dichloro-2-buten	20.38	53	11782	3.89	ug/l	74
74) n-Propylbenzene	20.50	91	485844	5.20	ug/l	98
75) Bromobenzene	20.66	156	96682	4.89	ug/l	97
76) 2-Chlorotoluene	21.03	91	290671	4.43	ug/l	100
77) 1,3,5-Trimethylbenzene	20.93	105	309747	4.98	ug/l	99
78) 4-Chlorotoluene	21.15	91	331072	4.97	ug/l	99
79) tert-Butylbenzene	21.97	119	249263	5.02	ug/l	99
80) 1,2,4-Trimethylbenzene	22.09	105	326373	5.08	ug/l	99
81) sec-Butylbenzene	22.61	105	403533	5.07	ug/l	99
82) p-Isopropyltoluene	23.00	119	290997	5.06	ug/l	100
83) 1,3-Dichlorobenzene	23.26	146	183483	4.96	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	186857	4.99	ug/l	98
85) n-Butylbenzene	23.99	91	343717	5.05	ug/l	99
86) 1,2-Dichlorobenzene	24.38	146	181614	4.98	ug/l	92
87) 1,2-Dibromo-3-chloropropan	25.94	157	10448	3.95	ug/l	91
88) 1,2,4-Trichlorobenzene	27.74	180	135751	4.96	ug/l	99
89) Hexachlorobutadiene	28.02	225	113088	4.95	ug/l	98
90) Naphthalene	28.29	128	200903	4.55	ug/l	99
91) 1,2,3-Trichlorobenzene	28.81	180	118881	4.76	ug/l	98

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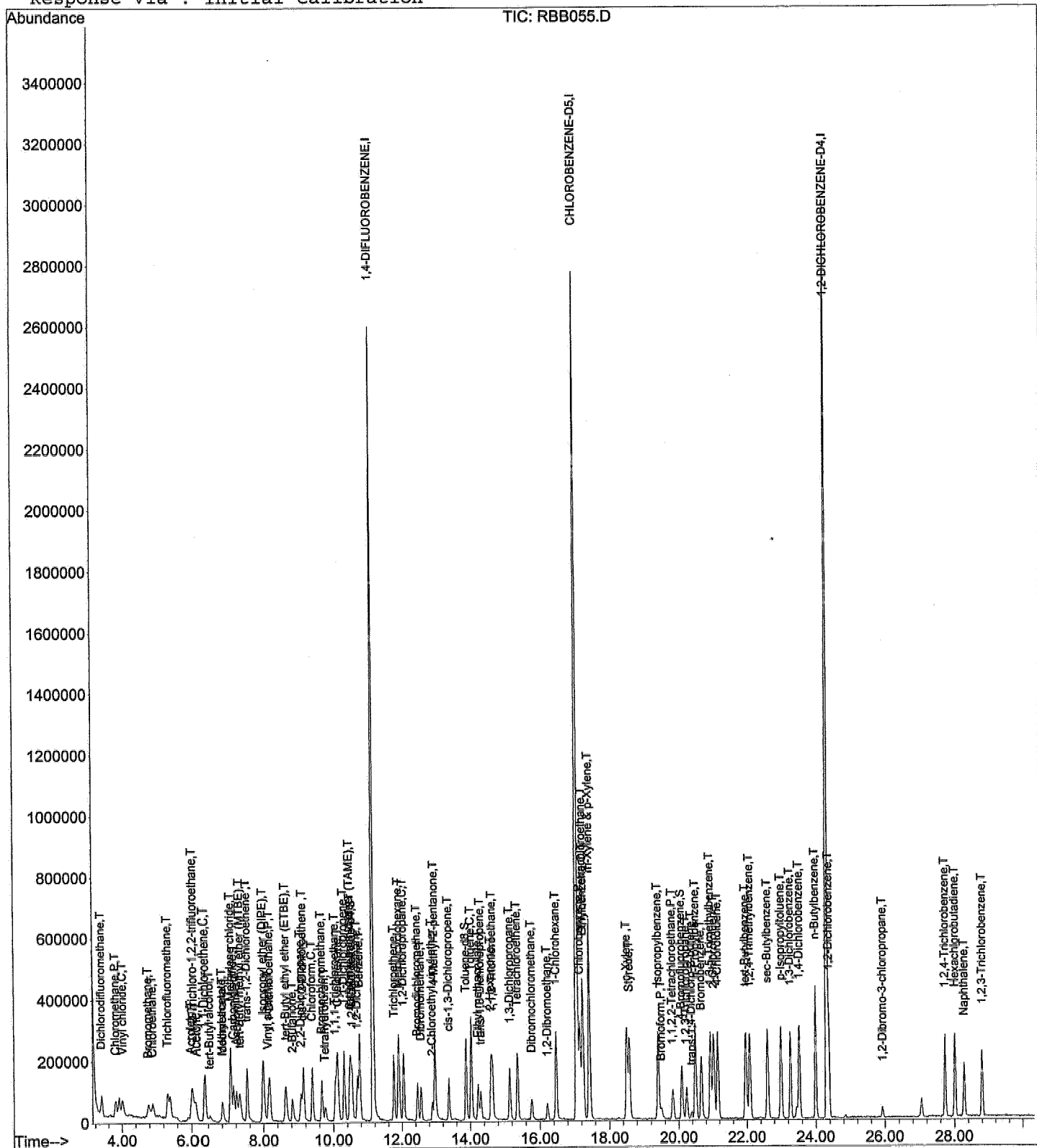
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB055.D
Acq On : 3 Feb 2006 2:17 pm
Sample : VO03B032 5/20/25
Misc : 5ppb 8260/20ppb Ket-AA/25ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:39 2006

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



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Data File : D:\HPCHEM\1\DATA\06B03\RBB056.D
 Acq On : 3 Feb 2006 2:54 pm
 Sample : VO03B033 10/40/50
 Misc : 10ppb 8260/40ppb Ket-AA/50ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:40 2006

Vial: 4
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:39:55 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2171346	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2063654	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1078589	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2-Dichloroethane-d4	10.54	65	234412	10.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.36%	
50) Toluene-d8	13.88	98	481762	11.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.50%	
71) 4-Bromofluorobenzene	20.10	95	238624	10.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.39	85	203692	10.56	ug/l	98
3) Chloromethane	3.81	50	249278	10.15	ug/l	99
4) Vinyl chloride	4.00	62	164287	10.60	ug/l	97
5) Bromomethane	4.78	94	114440	10.46	ug/l	94
6) Chloroethane	4.89	64	96661	10.31	ug/l	97
7) Trichlorofluoromethane	5.33	101	213710	9.94	ug/l	99
9) Acrolein	5.98	56	77389	45.35	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	106816	9.58	ug/l	96
11) Acetone	6.10	43	280770	39.69	ug/l	98
12) 1,1-Dichloroethene	6.31	61	335428	9.70	ug/l	99
13) tert-Butyl alcohol	6.44	59	51314	45.41	ug/l	73
15) Iodomethane	6.81	142	141106	10.89	ug/l	99
16) Methyl acetate	6.80	43	153823	8.99	ug/l	99
17) Methylene chloride	7.05	49	393557	7.26	ug/l	100
18) Carbon disulfide	7.14	76	463231	10.15	ug/l	99
19) Acrylonitrile	7.21	53	216131	41.18	ug/l	98
20) tert-Butyl methyl ether (M	7.32	73	255282	9.68	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	317921	9.91	ug/l	98
22) Isopropyl ether (DIPE)	7.98	45	657013	9.93	ug/l	100
23) 1,1-Dichloroethane	8.18	63	342130	9.79	ug/l	98
24) Vinyl acetate	8.13	43	332325	9.88	ug/l	100
25) tert-Butyl ethyl ether (ET	8.64	59	353601	9.76	ug/l	97
26) 2-Butanone	8.82	43	341531	39.99	ug/l	98
27) 2,2-Dichloropropane	9.08	77	127970	9.23	ug/l	93
28) cis-1,2-Dichloroethene	9.14	61	338939	10.19	ug/l	98
30) Chloroform	9.40	83	328881	10.00	ug/l	97
31) Bromochloromethane	9.66	49	202112	10.00	ug/l	98
32) Tetrahydrofuran	9.75	42	94205	17.78	ug/l	98
33) 1,1,1-Trichloroethane	10.07	97	230946	10.09	ug/l	98
34) Cyclohexane	10.12	56	324974	10.64	ug/l	98
35) tert-Amyl methyl ether (TA	10.48	73	266952	9.85	ug/l	92
38) 1,1-Dichloropropene	10.30	77	81413	9.73	ug/l	95
39) Carbon tetrachloride	10.50	119	167547	10.20	ug/l	98
40) 1,2-Dichloroethane	10.69	62	310742	9.81	ug/l	98
41) Benzene	10.76	78	626427	10.03	ug/l	99
42) Trichloroethene	11.77	130	158107	9.82	ug/l	98
43) Methylcyclohexane	11.91	83	264265	10.66	ug/l	99
44) 1,2-Dichloropropane	12.06	63	188743	9.66	ug/l	95

(#) = qualifier out of range (m) = manual integration
 RBB056.D VO03B03.M Mon Feb 06 19:26:52 2006

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Data File : D:\HPCHEM\1\DATA\06B03\RBB056.D
 Acq On : 3 Feb 2006 2:54 pm
 Sample : VO03B033 10/40/50
 Misc : 10ppb 8260/40ppb Ket-AA/50ppbTBA
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:40 2006

Vial: 4
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:39:55 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	212389	10.07	ug/l	99
46) Dibromomethane	12.56	93	111587	9.69	ug/l	98
47) 2-Chloroethyl vinyl ether	12.90	63	67031	10.48	ug/l	94
48) 4-Methyl-2-pentanone	12.96	43	855279	42.05	ug/l	100
49) cis-1,3-Dichloropropene	13.38	75	192168	9.91	ug/l	96
51) Toluene	14.03	91	628526	10.21	ug/l	97
52) Ethyl methacrylate	14.23	69	167451	10.01	ug/l	91
53) trans-1,3-Dichloropropene	14.30	75	126751	9.27	ug/l	93
54) 1,1,2-Trichloroethane	14.64	97	132103	10.19	ug/l	97
55) 2-Hexanone	14.60	43	573248	42.50	ug/l	97
56) 1,3-Dichloropropane	15.15	76	237806	9.99	ug/l	100
57) Tetrachloroethene	15.37	164	141445	9.84	ug/l	98
58) Dibromochloromethane	15.77	129	110517	9.80	ug/l	99
59) 1,2-Dibromoethane	16.22	107	121296	10.41	ug/l	99
60) 1-Chlorohexane	16.47	91	213045	10.61	ug/l	99
61) Chlorobenzene	17.17	112	414051	9.92	ug/l	97
62) 1,1,1,2-Tetrachloroethane	17.23	131	120862	10.07	ug/l	96
63) Ethylbenzene	17.24	91	745176	10.10	ug/l	100
64) m-Xylene & p-Xylene	17.42	91	1246072	20.19	ug/l	98
65) o-Xylene	18.51	91	622230	10.51	ug/l	99
66) Styrene	18.58	104	413068	10.31	ug/l	99
68) Bromoform	19.50	173	62805	9.29	ug/l	98
69) Isopropylbenzene	19.40	105	592005	9.84	ug/l	98
70) 1,1,2,2-Tetrachloroethane	19.83	83	176413	9.94	ug/l	97
72) 1,2,3-Trichloropropane	20.23	61	47952	9.50	ug/l	95
73) trans-1,4-Dichloro-2-buten	20.38	53	23788	9.10	ug/l	79
74) n-Propylbenzene	20.50	91	897677	10.17	ug/l	99
75) Bromobenzene	20.66	156	182216	9.96	ug/l	100
76) 2-Chlorotoluene	21.03	91	532850	9.05	ug/l	98
77) 1,3,5-Trimethylbenzene	20.93	105	589687	10.18	ug/l	98
78) 4-Chlorotoluene	21.15	91	624320	10.07	ug/l	100
79) tert-Butylbenzene	21.97	119	471677	10.17	ug/l	99
80) 1,2,4-Trimethylbenzene	22.09	105	606763	10.08	ug/l	98
81) sec-Butylbenzene	22.61	105	758828	10.17	ug/l	96
82) p-Isopropyltoluene	22.99	119	540720	10.04	ug/l	100
83) 1,3-Dichlorobenzene	23.27	146	328445	9.54	ug/l	98
84) 1,4-Dichlorobenzene	23.53	146	336283	9.63	ug/l	97
85) n-Butylbenzene	23.99	91	647100	10.16	ug/l	99
86) 1,2-Dichlorobenzene	24.37	146	317153	9.34	ug/l	96
87) 1,2-Dibromo-3-chloropropan	25.93	157	20748	9.05	ug/l	88
88) 1,2,4-Trichlorobenzene	27.73	180	249097	9.79	ug/l	96
89) Hexachlorobutadiene	28.01	225	202414	9.53	ug/l	99
90) Naphthalene	28.28	128	409594	10.26	ug/l	98
91) 1,2,3-Trichlorobenzene	28.80	180	224138	9.78	ug/l	100

W-9-06

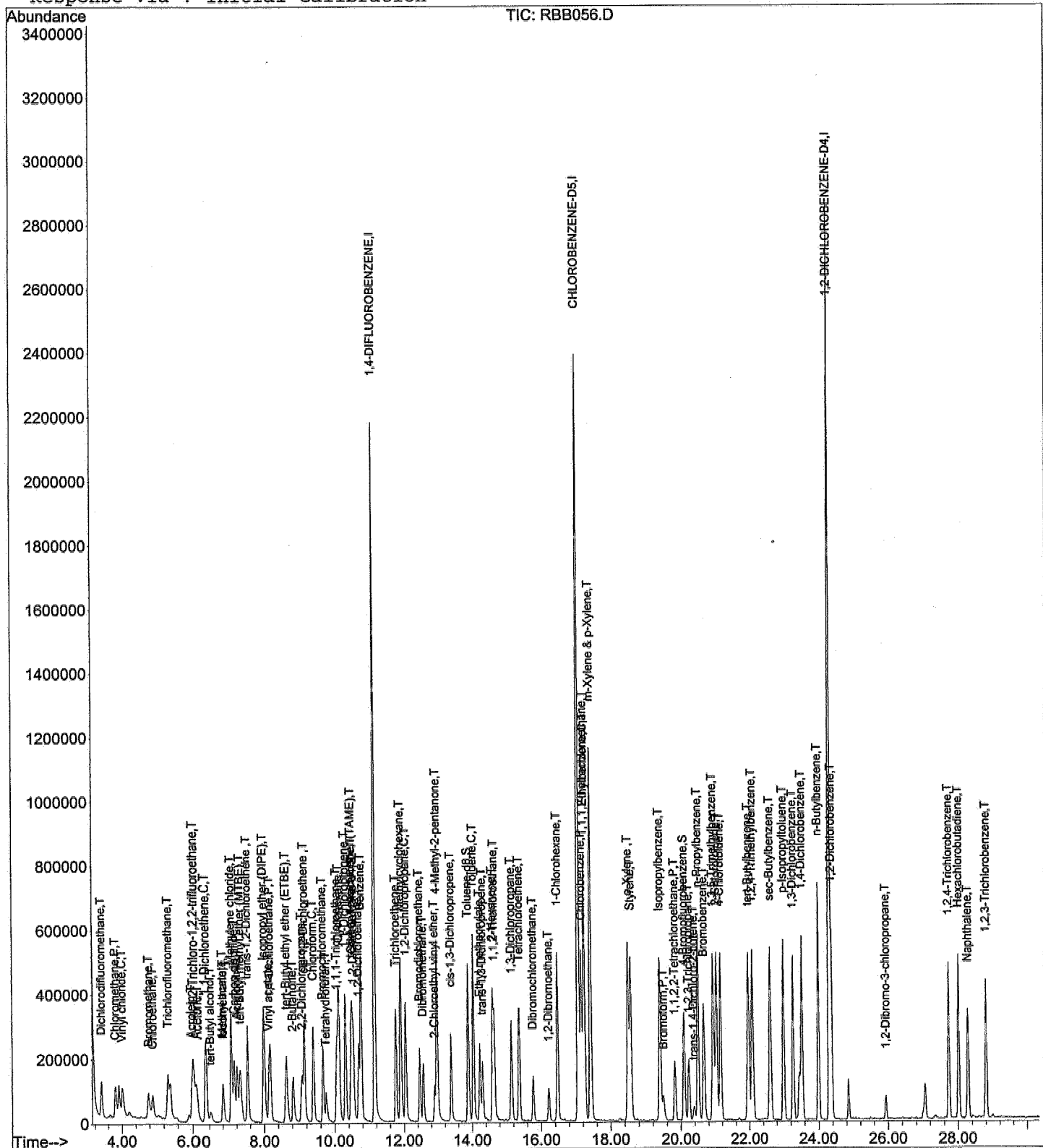
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB056.D
Acq On : 3 Feb 2006 2:54 pm
Sample : VO03B033 10/40/50
Misc : 10ppb 8260/40ppb Ket-AA/50ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006

Vial: 4
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB057.D Vial: 5
 Acq On : 3 Feb 2006 3:32 pm Operator: CGM
 Sample : VO03B034 20/80/100 Inst : TO03
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:40:40 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2366101	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2098123	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	1080497	50.00	ug/l	0.00

System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	484999	19.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.88%	
50) Toluene-d8	13.88	98	954032	21.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.50%	
71) 4-Bromofluorobenzene	20.09	95	470337	20.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.39	85	563725	26.46	ug/l	98
3) Chloromethane	3.81	50	625415	23.28	ug/l	98
4) Vinyl chloride	4.02	62	437110	25.50	ug/l	99
5) Bromomethane	4.77	94	311032	25.79	ug/l	100
6) Chloroethane	4.89	64	271094	26.34	ug/l	97
7) Trichlorofluoromethane	5.32	101	606294	25.92	ug/l	100
9) Acrolein	5.99	56	160337	83.44	ug/l	92
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	259735	21.60	ug/l	99
11) Acetone	6.10	43	587418	76.35	ug/l	100
12) 1,1-Dichloroethene	6.30	61	784676	20.98	ug/l	99
13) tert-Butyl alcohol	6.44	59	136302	113.28	ug/l	84
15) Iodomethane	6.81	142	358268	24.82	ug/l	99
16) Methyl acetate	6.79	43	356426	19.62	ug/l	99
17) Methylene chloride	7.05	49	845723	15.38	ug/l	99
18) Carbon disulfide	7.14	76	1119979	22.43	ug/l	100
19) Acrylonitrile	7.21	53	487144	84.56	ug/l	100
20) tert-Butyl methyl ether (M	7.30	73	661576	23.20	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	761750	21.84	ug/l	100
22) Isopropyl ether (DIPE)	7.98	45	1643259	22.84	ug/l	100
23) 1,1-Dichloroethane	8.18	63	838224	22.13	ug/l	100
24) Vinyl acetate	8.13	43	878361	24.03	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	970695	24.74	ug/l	99
26) 2-Butanone	8.82	43	807276	86.76	ug/l	100
27) 2,2-Dichloropropane	9.07	77	330792	22.33	ug/l	100
28) cis-1,2-Dichloroethene	9.14	61	803327	22.06	ug/l	99
30) Chloroform	9.40	83	765184	21.35	ug/l	100
31) Bromochloromethane	9.66	49	464473	21.09	ug/l	100
32) Tetrahydrofuran	9.75	42	213152	37.97	ug/l	97
33) 1,1,1-Trichloroethane	10.06	97	563043	22.52	ug/l	99
34) Cyclohexane	10.12	56	739793	21.88	ug/l	99
35) tert-Amyl methyl ether (TA	10.48	73	698175	23.73	ug/l	95
38) 1,1-Dichloropropene	10.30	77	195693	23.16	ug/l	95
39) Carbon tetrachloride	10.49	119	441398	26.29	ug/l	99
40) 1,2-Dichloroethane	10.69	62	712002	22.21	ug/l	99
41) Benzene	10.76	78	1442144	22.70	ug/l	100
42) Trichloroethene	11.77	130	364392	22.36	ug/l	99
43) Methylcyclohexane	11.91	83	581845	22.70	ug/l	99
44) 1,2-Dichloropropane	12.06	63	437328	22.21	ug/l	100

(#) = qualifier out of range (m) = manual integration
 RBB057.D VO03B03.M Mon Feb 06 19:27:02 2006

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB057.D Vial: 5
 Acq On : 3 Feb 2006 3:32 pm Operator: CGM
 Sample : VO03B034 20/80/100 Inst : TO03
 Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:40:40 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	495151	23.05	ug/l	100
46) Dibromomethane	12.56	93	253871	21.86	ug/l	99
47) 2-Chloroethyl vinyl ether	12.90	63	166497	25.30	ug/l	100
48) 4-Methyl-2-pentanone	12.96	43	1865728	89.08	ug/l	100
49) cis-1,3-Dichloropropene	13.38	75	486487	24.72	ug/l	99
51) Toluene	14.03	91	1330061	21.14	ug/l	99
52) Ethyl methacrylate	14.22	69	406934	23.92	ug/l	98
53) trans-1,3-Dichloropropene	14.30	75	345580	25.32	ug/l	97
54) 1,1,2-Trichloroethane	14.64	97	273018	20.61	ug/l	99
55) 2-Hexanone	14.60	43	1193785	85.71	ug/l	99
56) 1,3-Dichloropropane	15.15	76	515628	21.31	ug/l	99
57) Tetrachloroethene	15.37	164	292068	20.07	ug/l	97
58) Dibromochloromethane	15.77	129	279692	24.52	ug/l	99
59) 1,2-Dibromoethane	16.22	107	261767	21.88	ug/l	97
60) 1-Chlorohexane	16.47	91	479029	23.12	ug/l	99
61) Chlorobenzene	17.15	112	867970	20.49	ug/l	99
62) 1,1,1,2-Tetrachloroethane	17.23	131	282032	23.08	ug/l	98
63) Ethylbenzene	17.24	91	1593030	21.18	ug/l	100
64) m-Xylene & p-Xylene	17.42	91	2658567	42.26	ug/l	100
65) o-Xylene	18.50	91	1356278	22.25	ug/l	100
66) Styrene	18.58	104	925251	22.54	ug/l	98
68) Bromoform	19.50	173	166763	25.07	ug/l	99
69) Isopropylbenzene	19.40	105	1338735	22.30	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.83	83	381320	21.48	ug/l	98
72) 1,2,3-Trichloropropane	20.23	61	103716	20.78	ug/l	91
73) trans-1,4-Dichloro-2-buten	20.38	53	50669	19.80	ug/l	91
74) n-Propylbenzene	20.50	91	1950798	21.96	ug/l	99
75) Bromobenzene	20.67	156	388534	21.22	ug/l	100
76) 2-Chlorotoluene	21.03	91	1127409	19.58	ug/l	98
77) 1,3,5-Trimethylbenzene	20.93	105	1290748	22.15	ug/l	99
78) 4-Chlorotoluene	21.15	91	1319272	21.20	ug/l	100
79) tert-Butylbenzene	21.97	119	1046297	22.42	ug/l	98
80) 1,2,4-Trimethylbenzene	22.09	105	1310810	21.69	ug/l	99
81) sec-Butylbenzene	22.61	105	1684091	22.44	ug/l	100
82) p-Isopropyltoluene	22.99	119	1233751	22.85	ug/l	100
83) 1,3-Dichlorobenzene	23.27	146	713343	20.93	ug/l	100
84) 1,4-Dichlorobenzene	23.53	146	726060	20.95	ug/l	99
85) n-Butylbenzene	23.99	91	1443744	22.55	ug/l	99
86) 1,2-Dichlorobenzene	24.37	146	682053	20.38	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.93	157	53693	23.95	ug/l	93
88) 1,2,4-Trichlorobenzene	27.73	180	538580	21.24	ug/l	99
89) Hexachlorobutadiene	28.01	225	450080	21.41	ug/l	99
90) Naphthalene	28.28	128	911182	22.63	ug/l	99
91) 1,2,3-Trichlorobenzene	28.80	180	492887	21.59	ug/l	98

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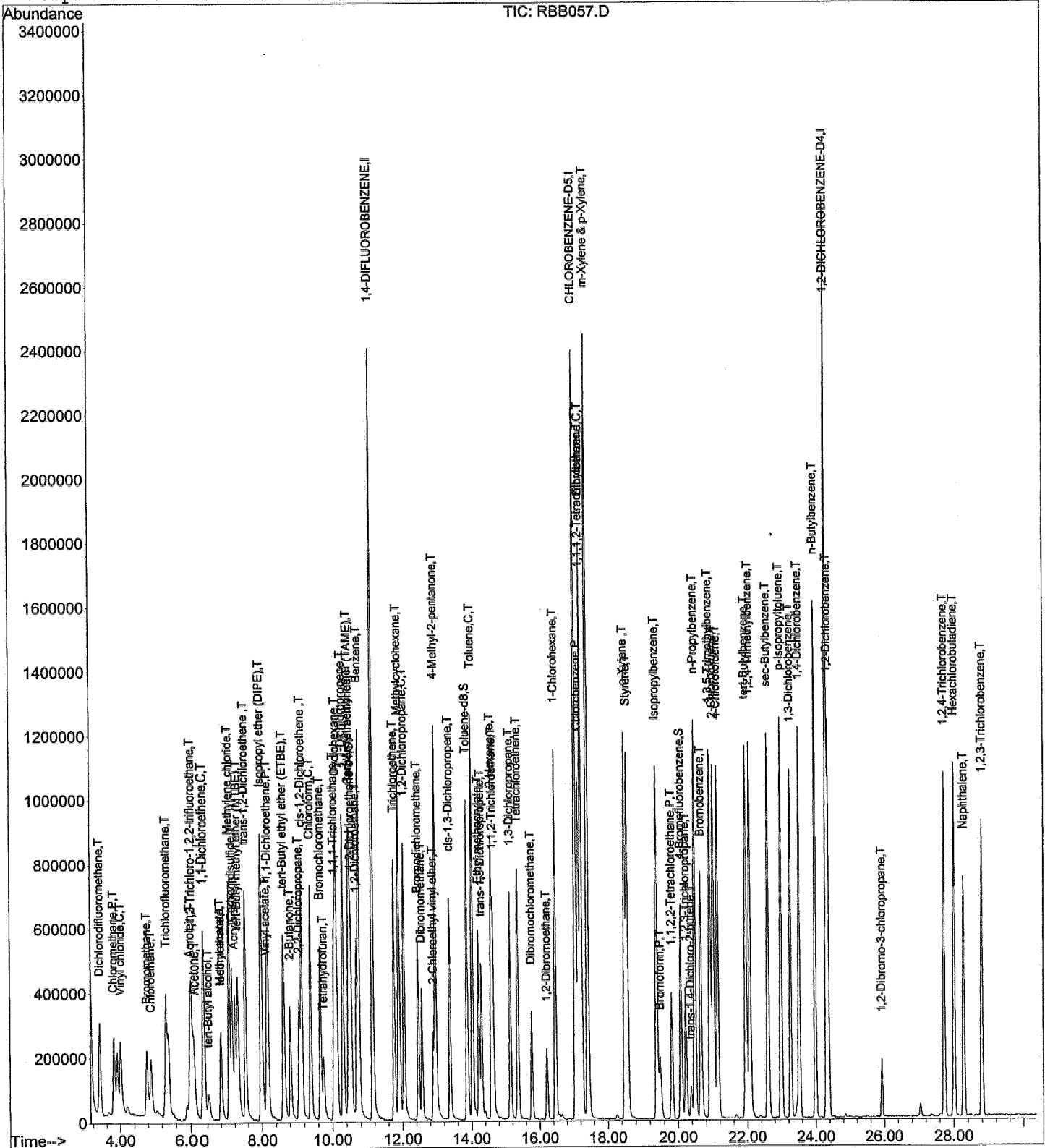
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB057.D
Acq On : 3 Feb 2006 3:32 pm
Sample : VO03B034 20/80/100
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006

Vial: 5
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Handwritten: 2-9-04

Data File : D:\HPCHEM\1\DATA\06B03\RBB058.D Vial: 6
 Acq On : 3 Feb 2006 4:09 pm Operator: CGM
 Sample : VO03B035 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:42 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:41:56 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2354321	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.07	117	2189381	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1126337	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2-Dichloroethane-d4	10.55	65	1073153	44.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	88.74%		
50) Toluene-d8	13.89	98	2290395	48.29	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.58%		
71) 4-Bromofluorobenzene	20.10	95	1151509	47.64	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.28%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.40	85	1082012	47.94	ug/l	100
3) Chloromethane	3.81	50	1252657	45.38	ug/l	100
4) Vinyl chloride	4.01	62	741077	41.18	ug/l	100
5) Bromomethane	4.77	94	636417	50.14	ug/l	100
6) Chloroethane	4.90	64	517218	47.49	ug/l	100
7) Trichlorofluoromethane	5.33	101	1143382	46.37	ug/l	100
9) Acrolein	5.98	56	429841	222.88	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	6.03	151	599636	49.33	ug/l	100
11) Acetone	6.09	43	1456645	192.03	ug/l	100
12) 1,1-Dichloroethene	6.31	61	1787468	47.56	ug/l	100
13) tert-Butyl alcohol	6.44	59	370074	301.12	ug/l	99
15) Iodomethane	6.82	142	793122	52.69	ug/l	100
16) Methyl acetate	6.80	43	929688	51.62	ug/l	100
17) Methylene chloride	7.05	49	1837928	35.21	ug/l	100
18) Carbon disulfide	7.13	76	2692318	52.90	ug/l	100
19) Acrylonitrile	7.22	53	1254428	216.37	ug/l	100
20) tert-Butyl methyl ether (M	7.31	73	1817569	62.07	ug/l	100
21) trans-1,2-Dichloroethene	7.53	61	1784573	50.49	ug/l	100
22) Isopropyl ether (DIPE)	7.99	45	4056317	55.09	ug/l	100
23) 1,1-Dichloroethane	8.18	63	1955622	50.80	ug/l	100
24) Vinyl acetate	8.14	43	2240720	59.22	ug/l	100
25) tert-Butyl ethyl ether (ET	8.63	59	2514934	61.50	ug/l	100
26) 2-Butanone	8.81	43	2148720	228.22	ug/l	100
27) 2,2-Dichloropropane	9.07	77	940312	62.34	ug/l	100
28) cis-1,2-Dichloroethene	9.15	61	1914210	51.76	ug/l	100
30) Chloroform	9.40	83	1803845	49.92	ug/l	100
31) Bromochloromethane	9.67	49	1091560	49.28	ug/l	100
32) Tetrahydrofuran	9.74	42	630928	114.12	ug/l	100
33) 1,1,1-Trichloroethane	10.06	97	1413656	55.43	ug/l	100
34) Cyclohexane	10.12	56	1829846	53.39	ug/l	100
35) tert-Amyl methyl ether (TA	10.47	73	1889320	62.21	ug/l	100
38) 1,1-Dichloropropene	10.31	77	480788	52.86	ug/l	100
39) Carbon tetrachloride	10.50	119	1113638	59.81	ug/l	100
40) 1,2-Dichloroethane	10.69	62	1697222	49.64	ug/l	100
41) Benzene	10.77	78	3466115	50.91	ug/l	100
42) Trichloroethene	11.76	130	895131	51.42	ug/l	100
43) Methylcyclohexane	11.91	83	1485332	54.08	ug/l	100
44) 1,2-Dichloropropane	12.05	63	1099251	52.34	ug/l	100

Handwritten: RBB
2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB058.D Vial: 6
 Acq On : 3 Feb 2006 4:09 pm Operator: CGM
 Sample : VO03B035 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:42 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:41:56 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	1366004	59.13	ug/l	100
46) Dibromomethane	12.57	93	646295	52.36	ug/l	100
47) 2-Chloroethyl vinyl ether	12.89	63	438700	60.67	ug/l	100
48) 4-Methyl-2-pentanone	12.95	43	5204851	232.87	ug/l	100
49) cis-1,3-Dichloropropene	13.38	75	1401481	65.18	ug/l	100
51) Toluene	14.04	91	3391321	51.08	ug/l	100
52) Ethyl methacrylate	14.22	69	1135704	61.56	ug/l	99
53) trans-1,3-Dichloropropene	14.31	75	1081020	72.07	ug/l	100
54) 1,1,2-Trichloroethane	14.65	97	737782	53.06	ug/l	100
55) 2-Hexanone	14.59	43	3447792	233.88	ug/l	100
56) 1,3-Dichloropropane	15.15	76	1403736	54.88	ug/l	100
57) Tetrachloroethene	15.38	164	776673	51.11	ug/l	100
58) Dibromochloromethane	15.78	129	824917	66.31	ug/l	100
59) 1,2-Dibromoethane	16.22	107	716163	56.30	ug/l	100
60) 1-Chlorohexane	16.47	91	1281288	57.46	ug/l	100
61) Chlorobenzene	17.16	112	2211986	49.80	ug/l	100
62) 1,1,1,2-Tetrachloroethane	17.23	131	776911	59.10	ug/l	100
63) Ethylbenzene	17.25	91	4034379	50.81	ug/l	100
64) m-Xylene & p-Xylene	17.43	91	6757651	101.80	ug/l	100
65) o-Xylene	18.51	91	3519717	54.12	ug/l	100
66) Styrene	18.58	104	2422607	55.16	ug/l	100
68) Bromoform	19.49	173	539845	74.09	ug/l	100
69) Isopropylbenzene	19.40	105	3459493	54.03	ug/l	100
70) 1,1,2,2-Tetrachloroethane	19.83	83	1024353	54.55	ug/l	100
72) 1,2,3-Trichloropropane	20.23	61	258045	49.21	ug/l	100
73) trans-1,4-Dichloro-2-buten	20.38	53	159959	60.08	ug/l	100
74) n-Propylbenzene	20.49	91	5005390	53.02	ug/l	100
75) Bromobenzene	20.66	156	1012346	52.40	ug/l	100
76) 2-Chlorotoluene	21.04	91	2888845	48.34	ug/l	99
77) 1,3,5-Trimethylbenzene	20.93	105	3357782	54.11	ug/l	100
78) 4-Chlorotoluene	21.16	91	3379606	51.48	ug/l	100
79) tert-Butylbenzene	21.97	119	2674548	53.68	ug/l	100
80) 1,2,4-Trimethylbenzene	22.09	105	3343576	52.19	ug/l	100
81) sec-Butylbenzene	22.61	105	4254673	53.09	ug/l	100
82) p-Isopropyltoluene	23.00	119	3148885	54.39	ug/l	100
83) 1,3-Dichlorobenzene	23.28	146	1813579	50.58	ug/l	100
84) 1,4-Dichlorobenzene	23.53	146	1853418	50.82	ug/l	100
85) n-Butylbenzene	23.99	91	3622779	52.92	ug/l	100
86) 1,2-Dichlorobenzene	24.38	146	1729152	49.38	ug/l	100
87) 1,2-Dibromo-3-chloropropan	25.94	157	170411	70.14	ug/l	100
88) 1,2,4-Trichlorobenzene	27.74	180	1377250	51.47	ug/l	100
89) Hexachlorobutadiene	28.02	225	1107866	49.85	ug/l	100
90) Naphthalene	28.29	128	2448686	56.85	ug/l	100
91) 1,2,3-Trichlorobenzene	28.81	180	1259559	52.10	ug/l	100

W 2-9-06

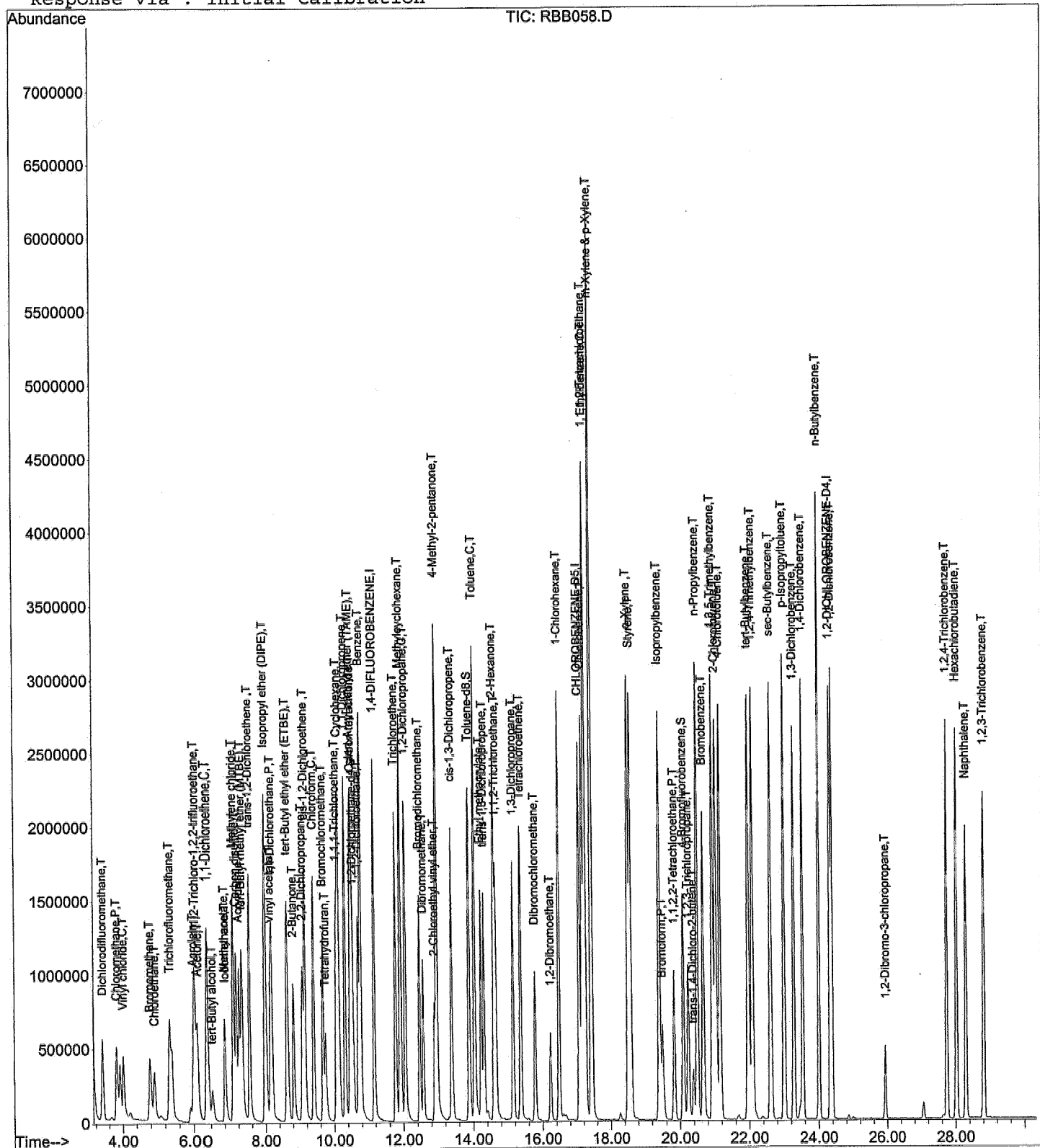
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB058.D
Acq On : 3 Feb 2006 4:09 pm
Sample : VO03B035 50/200/250
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:42 2006

Vial: 6
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Handwritten: 20-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB059.D Vial: 7
 Acq On : 3 Feb 2006 4:46 pm Operator: CGM
 Sample : VO03B036 80/320/400 Inst : TO03
 Misc : 80ppb 8260/320ppb Ket-AA/400ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:45 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:44:55 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2459458	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2303321	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1143708	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2-Dichloroethane-d4	10.54	65	2183070	86.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	172.84%	
50) Toluene-d8	13.88	98	4552299	91.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	182.42%	
71) 4-Bromofluorobenzene	20.10	95	2271289	92.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	185.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.39	85	1790997	75.96	ug/l	99
3) Chloromethane	3.83	50	2119361	73.48	ug/l	97
4) Vinyl chloride	4.00	62	1141803	60.72	ug/l	99
5) Bromomethane	4.76	94	1060576	79.94	ug/l	99
6) Chloroethane	4.90	64	856375	75.22	ug/l	97
7) Trichlorofluoromethane	5.33	101	1913626	74.26	ug/l	99
9) Acrolein	5.98	56	704989	349.69	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	905451	71.26	ug/l	98
11) Acetone	6.10	43	2397060	302.58	ug/l	99
12) 1,1-Dichloroethene	6.31	61	2775174	70.69	ug/l	99
13) tert-Butyl alcohol	6.44	59	641985	498.51	ug/l	95
15) Iodomethane	6.81	142	1191056	75.67	ug/l	99
16) Methyl acetate	6.80	43	1590515	84.48	ug/l	100
17) Methylene chloride	7.05	49	2767252	50.75	ug/l	100
18) Carbon disulfide	7.14	76	4170439	78.47	ug/l	100
19) Acrylonitrile	7.21	53	2060467	339.92	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	2922536	95.45	ug/l	100
21) trans-1,2-Dichloroethene	7.53	61	2732008	73.99	ug/l	100
22) Isopropyl ether (DIPE)	7.99	45	6480614	84.23	ug/l	100
23) 1,1-Dichloroethane	8.18	63	3027752	75.28	ug/l	100
24) Vinyl acetate	8.13	43	3651444	92.32	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	4106818	96.11	ug/l	99
26) 2-Butanone	8.82	43	3596283	365.77	ug/l	100
27) 2,2-Dichloropropane	9.07	77	1511977	95.94	ug/l	97
28) cis-1,2-Dichloroethene	9.14	61	2951705	76.40	ug/l	100
30) Chloroform	9.40	83	2763880	73.17	ug/l	99
31) Bromochloromethane	9.66	49	1665779	71.91	ug/l	99
32) Tetrahydrofuran	9.74	42	1062001	183.44	ug/l	98
33) 1,1,1-Trichloroethane	10.07	97	2192200	82.29	ug/l	99
34) Cyclohexane	10.13	56	3037911	84.84	ug/l	100
35) tert-Amyl methyl ether (TA	10.47	73	3020926	95.21	ug/l	100
38) 1,1-Dichloropropene	10.30	77	730919	76.39	ug/l	97
39) Carbon tetrachloride	10.50	119	1737971	88.68	ug/l	100
40) 1,2-Dichloroethane	10.69	62	2662280	74.00	ug/l	98
41) Benzene	10.76	78	5307562	74.07	ug/l	99
42) Trichloroethene	11.77	130	1398807	76.35	ug/l	99
43) Methylcyclohexane	11.91	83	2474471	85.62	ug/l	98
44) 1,2-Dichloropropane	12.04	63	1723442	77.97	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RBB059.D VO03B03.M Mon Feb 06 19:22:32 2006

m 2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB059.D Vial: 7
 Acq On : 3 Feb 2006 4:46 pm Operator: CGM
 Sample : VO03B036 80/320/400 Inst : TO03
 Misc : 80ppb 8260/320ppb Ket-AA/400ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:45 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:44:55 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	2145427	88.27	ug/l	100
46) Dibromomethane	12.56	93	986344	75.95	ug/l	100
47) 2-Chloroethyl vinyl ether	12.89	63	719743	94.61	ug/l	99
48) 4-Methyl-2-pentanone	12.96	43	8574523	364.60	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	2239402	98.97	ug/l	99
51) Toluene	14.03	91	5280924	75.59	ug/l	99
52) Ethyl methacrylate	14.23	69	1867977	96.19	ug/l	98
53) trans-1,3-Dichloropropene	14.30	75	1725541	109.34	ug/l	99
54) 1,1,2-Trichloroethane	14.64	97	1141952	78.06	ug/l	98
55) 2-Hexanone	14.58	43	5777481	372.28	ug/l	100
56) 1,3-Dichloropropane	15.15	76	2204101	81.89	ug/l	99
57) Tetrachloroethene	15.37	164	1193789	74.67	ug/l	99
58) Dibromochloromethane	15.77	129	1327996	101.47	ug/l	100
59) 1,2-Dibromoethane	16.22	107	1089547	81.42	ug/l	98
60) 1-Chlorohexane	16.47	91	1983424	84.54	ug/l	99
61) Chlorobenzene	17.15	112	3374519	72.21	ug/l	99
62) 1,1,1,2-Tetrachloroethane	17.23	131	1229394	88.90	ug/l	99
63) Ethylbenzene	17.24	91	6119116	73.26	ug/l	99
64) m-Xylene & p-Xylene	17.42	91	10063735	144.06	ug/l	99
65) o-Xylene	18.51	91	5381097	78.64	ug/l	100
66) Styrene	18.58	104	3705254	80.18	ug/l	100
68) Bromoform	19.50	173	885252	119.66	ug/l	99
69) Isopropylbenzene	19.40	105	5244561	80.67	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.83	83	1632218	85.61	ug/l	100
72) 1,2,3-Trichloropropane	20.23	61	421403	79.14	ug/l	93
73) trans-1,4-Dichloro-2-buten	20.38	53	278332	102.94	ug/l	96
74) n-Propylbenzene	20.50	91	7495898	78.19	ug/l	99
75) Bromobenzene	20.68	156	1530964	78.05	ug/l	99
76) 2-Chlorotoluene	21.03	91	4345119	71.47	ug/l	99
77) 1,3,5-Trimethylbenzene	20.93	105	5044640	80.06	ug/l	100
78) 4-Chlorotoluene	21.15	91	5053460	75.81	ug/l	99
79) tert-Butylbenzene	21.97	119	4025032	79.38	ug/l	99
80) 1,2,4-Trimethylbenzene	22.09	105	5072072	77.97	ug/l	99
81) sec-Butylbenzene	22.61	105	6479793	79.63	ug/l	99
82) p-Isopropyltoluene	22.99	119	4695629	79.88	ug/l	99
83) 1,3-Dichlorobenzene	23.28	146	2701725	74.20	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	2712315	73.24	ug/l	99
85) n-Butylbenzene	23.99	91	5369735	77.25	ug/l	99
86) 1,2-Dichlorobenzene	24.38	146	2566708	72.19	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.94	157	278682	112.96	ug/l	95
88) 1,2,4-Trichlorobenzene	27.73	180	2107300	77.55	ug/l	99
89) Hexachlorobutadiene	28.02	225	1706417	75.62	ug/l	99
90) Naphthalene	28.28	128	3807703	87.06	ug/l	100
91) 1,2,3-Trichlorobenzene	28.80	180	1943321	79.16	ug/l	99

de
 5-9-06

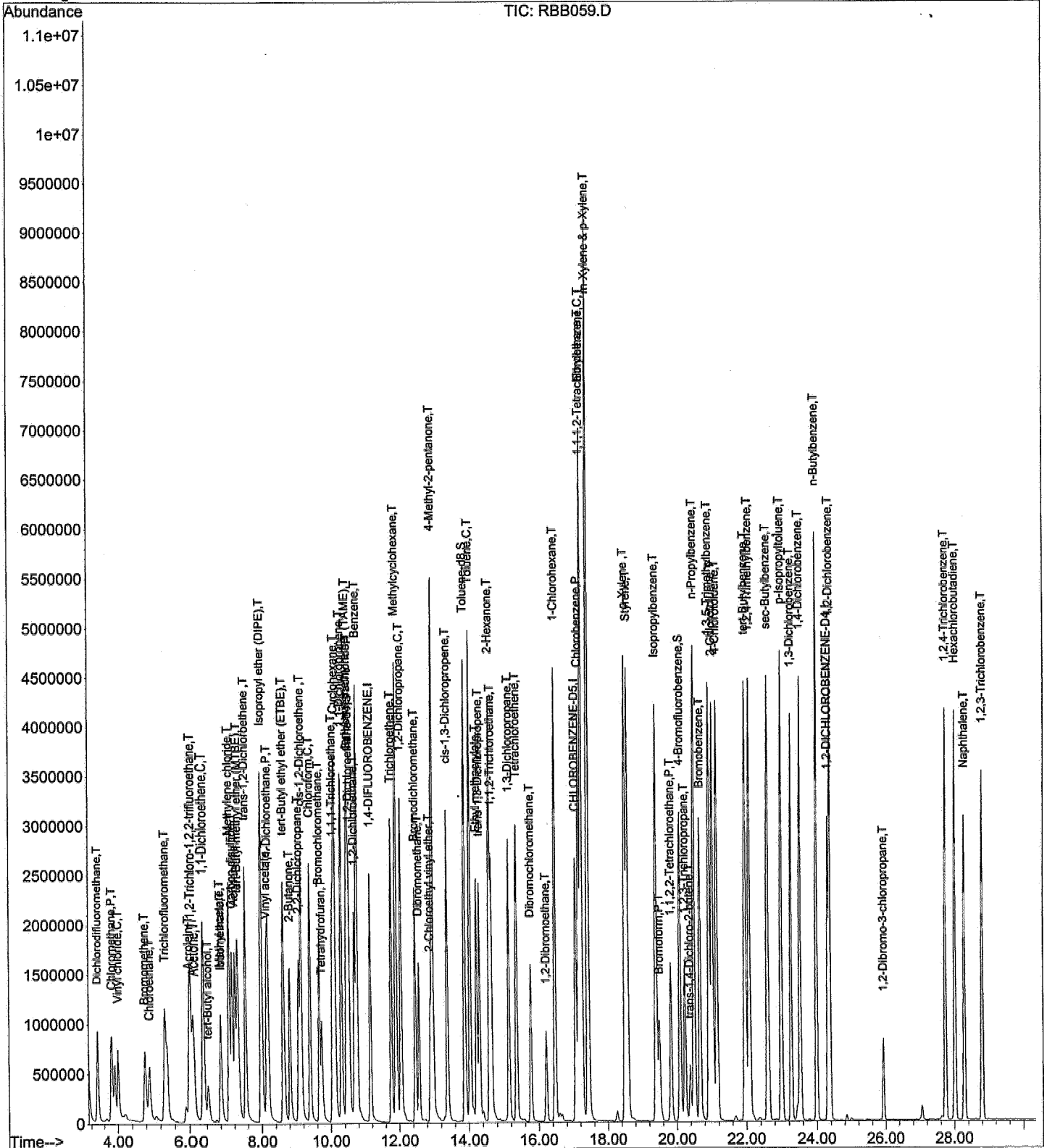
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB059.D
Acq On : 3 Feb 2006 4:46 pm
Sample : VO03B036 80/320/400
Misc : 80ppb 8260/320ppb Ket-AA/400ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:45 2006

Vial: 7
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Handwritten: 2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB060.D Vial: 8
 Acq On : 3 Feb 2006 5:24 pm Operator: CGM
 Sample : VO03B037 100/400/500 Inst : TO03
 Misc : 100ppb 8260/400ppb Ket-AA/500ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:46:09 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2540569	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2242170	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1126128	50.00	ug/l	0.00

System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	2656779	100.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	200.94%	
50) Toluene-d8	13.88	98	5612584	112.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	225.78%	
71) 4-Bromofluorobenzene	20.10	95	2796014	112.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	225.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.39	85	2190512	90.70	ug/l	99
3) Chloromethane	3.81	50	2630249	89.50	ug/l	96
4) Vinyl chloride	4.00	62	1339767	71.86	ug/l	100
5) Bromomethane	4.76	94	1342628	97.98	ug/l	99
6) Chloroethane	4.89	64	1044207	89.68	ug/l	98
7) Trichlorofluoromethane	5.33	101	2350372	89.36	ug/l	99
9) Acrolein	5.98	56	840243	397.33	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	1052187	81.65	ug/l	96
11) Acetone	6.10	43	2816550	347.33	ug/l	100
12) 1,1-Dichloroethene	6.31	61	3301015	83.01	ug/l	100
13) tert-Butyl alcohol	6.44	59	712848	514.73	ug/l	93
15) Iodomethane	6.81	142	1394856	86.57	ug/l	98
16) Methyl acetate	6.80	43	1902268	96.91	ug/l	100
17) Methylene chloride	7.05	49	3217376	60.83	ug/l	99
18) Carbon disulfide	7.14	76	4941719	90.30	ug/l	100
19) Acrylonitrile	7.21	53	2455627	388.15	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	3400984	104.18	ug/l	100
21) trans-1,2-Dichloroethene	7.52	61	3261024	86.58	ug/l	98
22) Isopropyl ether (DIPE)	7.98	45	7602310	94.82	ug/l	100
23) 1,1-Dichloroethane	8.18	63	3576397	86.94	ug/l	99
24) Vinyl acetate	8.13	43	4172665	99.57	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	4677979	102.54	ug/l	99
26) 2-Butanone	8.82	43	4223240	406.14	ug/l	100
27) 2,2-Dichloropropane	9.07	77	1796042	106.78	ug/l	97
28) cis-1,2-Dichloroethene	9.14	61	3486582	88.02	ug/l	100
30) Chloroform	9.40	83	3260366	84.76	ug/l	100
31) Bromochloromethane	9.66	49	1942499	82.57	ug/l	100
32) Tetrahydrofuran	9.74	42	1265757	206.61	ug/l	99
33) 1,1,1-Trichloroethane	10.07	97	2592020	93.75	ug/l	99
34) Cyclohexane	10.12	56	3837252	102.71	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	3445732	101.90	ug/l	99
38) 1,1-Dichloropropene	10.30	77	852117	92.18	ug/l	96
39) Carbon tetrachloride	10.50	119	2024626	104.24	ug/l	100
40) 1,2-Dichloroethane	10.69	62	3097196	89.56	ug/l	98
41) Benzene	10.76	78	6172238	89.59	ug/l	98
42) Trichloroethene	11.77	130	1633306	92.28	ug/l	99
43) Methylcyclohexane	11.91	83	3091505	108.62	ug/l	100
44) 1,2-Dichloropropane	12.06	63	2012804	93.94	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RBB060.D VO03B03.M Mon Feb 06 19:22:45 2006

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB060.D Vial: 8
 Acq On : 3 Feb 2006 5:24 pm Operator: CGM
 Sample : VO03B037 100/400/500 Inst : TO03
 Misc : 100ppb 8260/400ppb Ket-AA/500ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:46:09 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	2520737	104.73	ug/l	100
46) Dibromomethane	12.56	93	1116522	89.07	ug/l	99
47) 2-Chloroethyl vinyl ether	12.89	63	821733	107.69	ug/l	99
48) 4-Methyl-2-pentanone	12.96	43	9869435	421.32	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	2571821	112.32	ug/l	100
51) Toluene	14.03	91	5972779	88.64	ug/l	100
52) Ethyl methacrylate	14.23	69	2056489	105.23	ug/l	98
53) trans-1,3-Dichloropropene	14.30	75	1985478	121.80	ug/l	99
54) 1,1,2-Trichloroethane	14.64	97	1294302	91.25	ug/l	98
55) 2-Hexanone	14.58	43	6598854	425.22	ug/l	100
56) 1,3-Dichloropropane	15.15	76	2467864	93.82	ug/l	99
57) Tetrachloroethene	15.37	164	1355049	88.04	ug/l	99
58) Dibromochloromethane	15.77	129	1503608	112.97	ug/l	100
59) 1,2-Dibromoethane	16.22	107	1215589	93.04	ug/l	96
60) 1-Chlorohexane	16.47	91	2288503	99.27	ug/l	99
61) Chlorobenzene	17.15	112	3800498	84.92	ug/l	99
62) 1,1,1,2-Tetrachloroethane	17.23	131	1370847	99.98	ug/l	100
63) Ethylbenzene	17.24	91	6855623	85.51	ug/l	99
64) m-Xylene & p-Xylene	17.42	91	11389457	170.32	ug/l	99
65) o-Xylene	18.51	91	6014497	90.55	ug/l	100
66) Styrene	18.58	104	4189767	93.11	ug/l	100
68) Bromoform	19.50	173	1001097	126.94	ug/l	100
69) Isopropylbenzene	19.40	105	5953344	92.87	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.83	83	1795947	94.56	ug/l	99
72) 1,2,3-Trichloropropane	20.23	61	450102	86.00	ug/l	96
73) trans-1,4-Dichloro-2-buten	20.38	53	314330	112.69	ug/l	98
74) n-Propylbenzene	20.50	91	8512550	90.52	ug/l	99
75) Bromobenzene	20.67	156	1709264	88.86	ug/l	99
76) 2-Chlorotoluene	21.03	91	4845933	82.42	ug/l	99
77) 1,3,5-Trimethylbenzene	20.93	105	5679526	91.53	ug/l	100
78) 4-Chlorotoluene	21.15	91	5765621	88.62	ug/l	100
79) tert-Butylbenzene	21.97	119	4603844	92.33	ug/l	100
80) 1,2,4-Trimethylbenzene	22.09	105	5715086	89.60	ug/l	99
81) sec-Butylbenzene	22.61	105	7365080	91.99	ug/l	100
82) p-Isopropyltoluene	22.99	119	5399600	93.31	ug/l	99
83) 1,3-Dichlorobenzene	23.27	146	3068971	86.65	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	3103999	86.34	ug/l	99
85) n-Butylbenzene	23.99	91	6165544	90.61	ug/l	99
86) 1,2-Dichlorobenzene	24.37	146	2884562	83.76	ug/l	100
87) 1,2-Dibromo-3-chloropropan	25.93	157	308576	118.87	ug/l	96
88) 1,2,4-Trichlorobenzene	27.73	180	2458882	92.37	ug/l	100
89) Hexachlorobutadiene	28.02	225	1970013	89.48	ug/l	99
90) Naphthalene	28.28	128	4276913	97.88	ug/l	99
91) 1,2,3-Trichlorobenzene	28.80	180	2212074	91.68	ug/l	99

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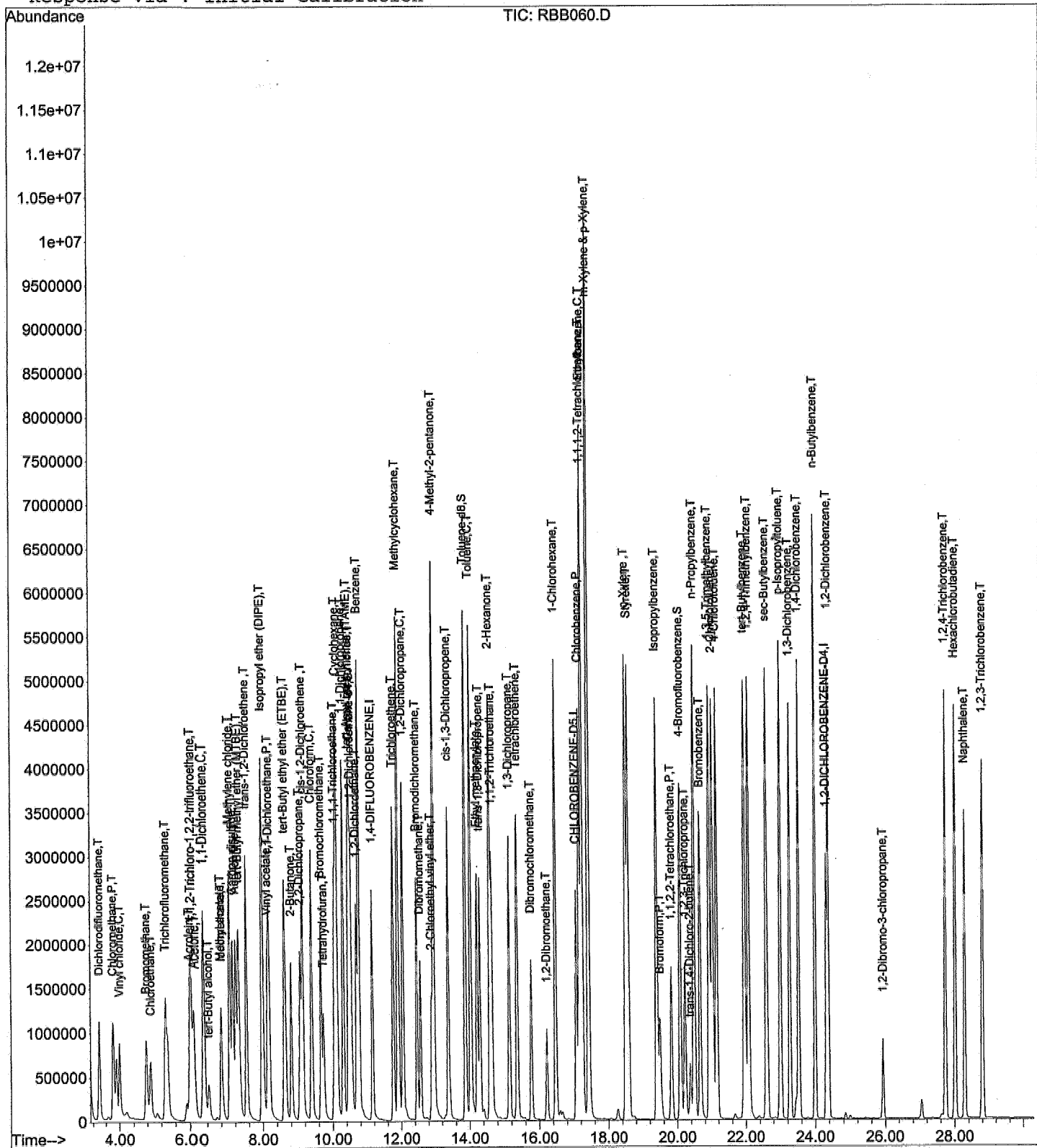
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB060.D
Acq On : 3 Feb 2006 5:24 pm
Sample : VO03B037 100/400/500
Misc : 100ppb 8260/400ppb Ket-AA/500ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006

Vial: 8
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB061.D Vial: 9
 Acq On : 3 Feb 2006 6:01 pm Operator: CGM
 Sample : VO03B038 200/800/1000 Inst : TO03
 Misc : 200ppb 8260/800ppb Ket-AA/1000ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:46:36 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2150874	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	1941589	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	979380	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
36) 1,2-Dichloroethane-d4	10.54	65	4594048	205.07	ug/l	0.00
Spiked Amount 50.000						Recovery = 410.14%
50) Toluene-d8	13.88	98	9811400	223.77	ug/l	0.00
Spiked Amount 50.000						Recovery = 447.54%
71) 4-Bromofluorobenzene	20.09	95	4988191	227.13	ug/l	0.00
Spiked Amount 50.000						Recovery = 454.26%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.38	85	4210631	208.71	ug/l	98
3) Chloromethane	3.81	50	5533434	225.78	ug/l	97
4) Vinyl chloride	4.00	62	2471142	163.11	ug/l	99
5) Bromomethane	4.74	94	2560123	221.31	ug/l	98
6) Chloroethane	4.88	64	2001046	206.03	ug/l	99
7) Trichlorofluoromethane	5.31	101	4529992	206.58	ug/l	100
9) Acrolein	5.99	56	1556914	870.44	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	6.01	151	2261491	212.87	ug/l	98
11) Acetone	6.10	43	5305491	787.62	ug/l	99
12) 1,1-Dichloroethene	6.30	61	6971220	212.21	ug/l	98
13) tert-Butyl alcohol	6.47	59	1631208	1385.43	ug/l	88
15) Iodomethane	6.81	142	2888428	215.89	ug/l	99
16) Methyl acetate	6.81	43	3632941	219.57	ug/l	99
17) Methylene chloride	7.05	49	6621843	156.65	ug/l	99
18) Carbon disulfide	7.12	76	10591785	231.82	ug/l	100
19) Acrylonitrile	7.23	53	4591916	860.97	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	7649434	275.13	ug/l	99
21) trans-1,2-Dichloroethene	7.52	61	6820297	218.06	ug/l	99
22) Isopropyl ether (DIPE)	7.98	45	16000222	237.48	ug/l	100
23) 1,1-Dichloroethane	8.18	63	7493418	219.26	ug/l	100
24) Vinyl acetate	8.13	43	8734580	246.35	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	10280106	265.19	ug/l	100
26) 2-Butanone	8.82	43	7779420	881.74	ug/l	99
27) 2,2-Dichloropropane	9.07	77	4207201	292.62	ug/l	97
28) cis-1,2-Dichloroethene	9.14	61	7437092	225.63	ug/l	98
30) Chloroform	9.40	83	6739495	211.57	ug/l	99
31) Bromochloromethane	9.66	49	4130769	212.69	ug/l	98
32) Tetrahydrofuran	9.74	42	2429823	466.28	ug/l	99
33) 1,1,1-Trichloroethane	10.06	97	5431426	234.12	ug/l	99
34) Cyclohexane	10.11	56	7036425	221.60	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	7328677	255.30	ug/l	99
38) 1,1-Dichloropropene	10.30	77	1802146	227.67	ug/l	100
39) Carbon tetrachloride	10.50	119	4313160	254.90	ug/l	100
40) 1,2-Dichloroethane	10.69	62	6268991	212.51	ug/l	99
41) Benzene	10.76	78	12349354	210.13	ug/l	97
42) Trichloroethene	11.77	130	3339097	220.29	ug/l	99
43) Methylcyclohexane	11.91	83	5606514	224.71	ug/l	99
44) 1,2-Dichloropropane	12.06	63	4247625	230.93	ug/l	98

(#) = qualifier out of range (m) = manual integration
 RBB061.D VO03B03.M Mon Feb 06 19:22:57 2006

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB061.D Vial: 9
 Acq On : 3 Feb 2006 6:01 pm Operator: CGM
 Sample : VO03B038 200/800/1000 Inst : TO03
 Misc : 200ppb 8260/800ppb Ket-AA/1000ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 08:46:36 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	5288455	252.04	ug/l	99
46) Dibromomethane	12.56	93	2287670	214.09	ug/l	99
47) 2-Chloroethyl vinyl ether	12.89	63	1739919	260.45	ug/l	99
48) 4-Methyl-2-pentanone	12.96	43	17533382	857.84	ug/l	98
49) cis-1,3-Dichloropropene	13.38	75	5615208	278.31	ug/l	100
51) Toluene	14.03	91	11954007	208.24	ug/l	100
52) Ethyl methacrylate	14.22	69	4240457	248.73	ug/l	97
53) trans-1,3-Dichloropropene	14.30	75	4452796	305.92	ug/l	98
54) 1,1,2-Trichloroethane	14.64	97	2663476	219.60	ug/l	99
55) 2-Hexanone	14.58	43	11531467	850.45	ug/l	99
56) 1,3-Dichloropropane	15.15	76	5042334	223.35	ug/l	99
57) Tetrachloroethene	15.37	164	2807209	214.29	ug/l	99
58) Dibromochloromethane	15.77	129	3319293	282.76	ug/l	99
59) 1,2-Dibromoethane	16.22	107	2569182	229.36	ug/l	98
60) 1-Chlorohexane	16.47	91	4738648	237.62	ug/l	99
61) Chlorobenzene	17.17	112	7701023	203.09	ug/l	98
62) 1,1,1,2-Tetrachloroethane	17.23	131	2891704	243.56	ug/l	99
63) Ethylbenzene	17.24	91	13500009	198.57	ug/l	97
64) m-Xylene & p-Xylene	17.43	91	21369874	377.03	ug/l	96
65) o-Xylene	18.50	91	12225549	215.46	ug/l	98
66) Styrene	18.58	104	8594531	222.75	ug/l	99
68) Bromoform	19.50	173	2301125	323.07	ug/l	100
69) Isopropylbenzene	19.41	105	12107152	219.40	ug/l	98
70) 1,1,2,2-Tetrachloroethane	19.83	83	3739864	228.19	ug/l	99
72) 1,2,3-Trichloropropane	20.23	61	983814	220.55	ug/l	92
73) trans-1,4-Dichloro-2-buten	20.38	53	820883	332.36	ug/l	100
74) n-Propylbenzene	20.50	91	17181688	212.97	ug/l	98
75) Bromobenzene	20.67	156	3562573	216.40	ug/l	99
76) 2-Chlorotoluene	21.03	91	9798517	196.55	ug/l	97
77) 1,3,5-Trimethylbenzene	20.94	105	11731443	220.05	ug/l	100
78) 4-Chlorotoluene	21.16	91	11793781	211.88	ug/l	100
79) tert-Butylbenzene	21.97	119	9419688	219.63	ug/l	99
80) 1,2,4-Trimethylbenzene	22.09	105	11674732	213.63	ug/l	100
81) sec-Butylbenzene	22.61	105	15074107	219.00	ug/l	99
82) p-Isopropyltoluene	22.99	119	10945729	219.59	ug/l	97
83) 1,3-Dichlorobenzene	23.27	146	6206377	205.41	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	6362639	207.56	ug/l	98
85) n-Butylbenzene	24.00	91	12427684	212.85	ug/l	97
86) 1,2-Dichlorobenzene	24.37	146	5899137	201.64	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.93	157	714427	308.14	ug/l	97
88) 1,2,4-Trichlorobenzene	27.73	180	5100246	222.74	ug/l	99
89) Hexachlorobutadiene	28.01	225	4130797	219.04	ug/l	100
90) Naphthalene	28.28	128	8874134	234.22	ug/l	99
91) 1,2,3-Trichlorobenzene	28.80	180	4587015	221.22	ug/l	98

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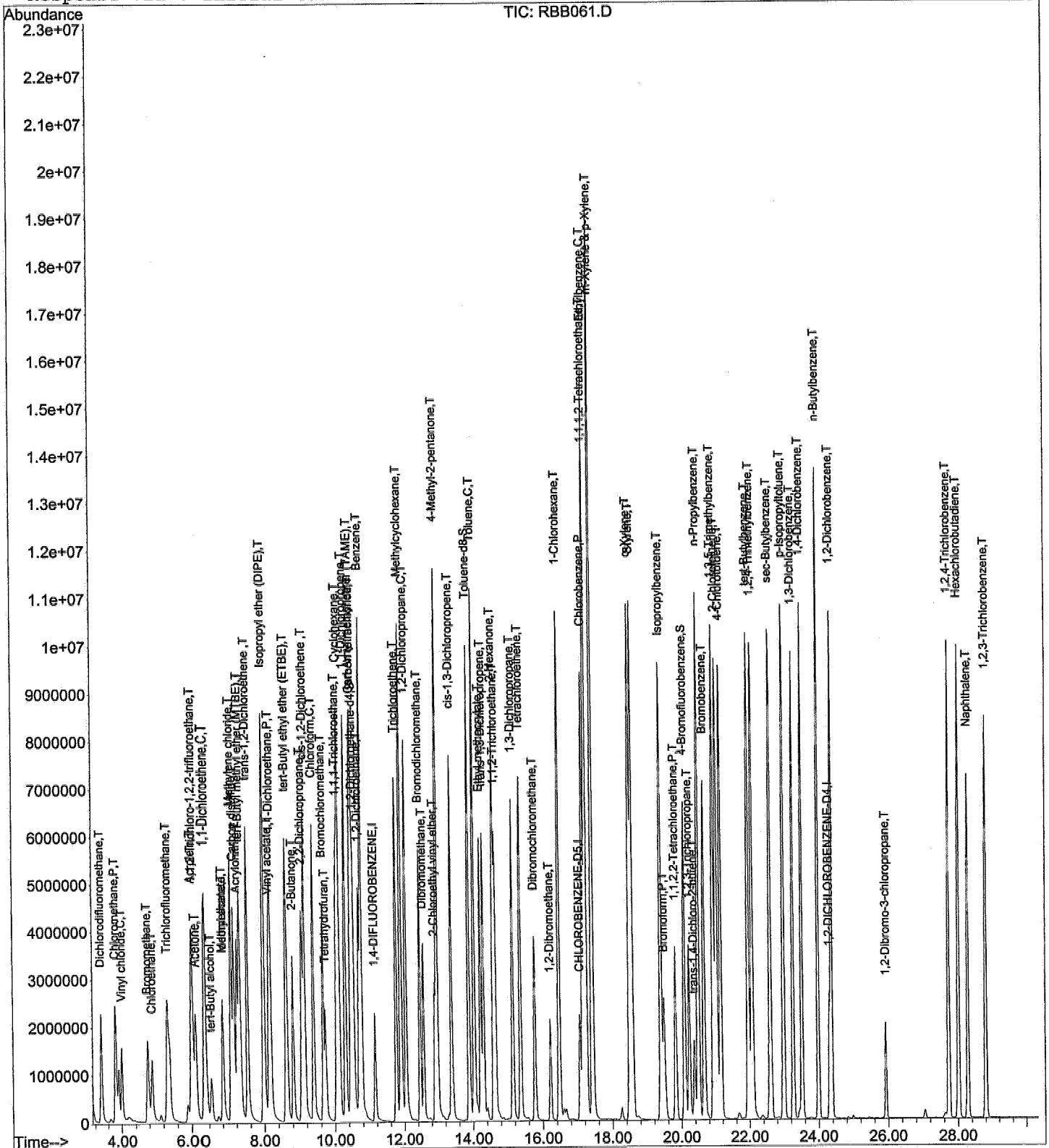
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB061.D
Acq On : 3 Feb 2006 6:01 pm
Sample : VO03B038 200/800/1000
Misc : 200ppb 8260/800ppb Ket-AA/1000ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006

Vial: 9
Operator: CGM
Inst : T003
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



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Data File : D:\HPCHEM\1\DATA\06B03\RBB062.D Vial: 10
 Acq On : 3 Feb 2006 6:38 pm Operator: CGM
 Sample : VO03B039 300/1200/1500 Inst : TO03
 Misc : 300ppb 8260/1200ppb Ket-AA/1500ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 9:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 09:16:22 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2112542	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2001320	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	1065793	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2-Dichloroethane-d4	10.54	65	5773672	265.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	530.70%	
50) Toluene-d8	13.88	98	12151699	268.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	536.84%	
71) 4-Bromofluorobenzene	20.09	95	6672047	277.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	554.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.38	85	5204219	265.03	ug/l	98
3) Chloromethane	3.81	50	7622439	310.30	ug/l	97
4) Vinyl chloride	3.99	62	3043568	295.15	ug/l	99
5) Bromomethane	4.73	94	3001754	264.57	ug/l	100
6) Chloroethane	4.86	64	2270907	242.81	ug/l	98
7) Trichlorofluoromethane	5.30	101	5308681	250.53	ug/l	99
9) Acrolein	5.99	56	2025109	1146.54	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	5.99	151	2648918	256.41	ug/l	97
11) Acetone	6.10	43	7198150	1101.30	ug/l	100
12) 1,1-Dichloroethene	6.29	61	8345590	260.88	ug/l	99
13) tert-Butyl alcohol	6.50	59	2385662	2062.98	ug/l	87
15) Iodomethane	6.80	142	3432760	258.67	ug/l	99
16) Methyl acetate	6.80	43	4797422	292.55	ug/l	99
17) Methylene chloride	7.03	49	8020238	264.15	ug/l	100
18) Carbon disulfide	7.11	76	12857044	282.91	ug/l	100
19) Acrylonitrile	7.23	53	6355443	1201.60	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	9676832	291.86	ug/l	98
21) trans-1,2-Dichloroethene	7.51	61	8341492	271.67	ug/l	98
22) Isopropyl ether (DIPE)	7.98	45	19525200	289.56	ug/l	100
23) 1,1-Dichloroethane	8.18	63	9013496	268.78	ug/l	99
24) Vinyl acetate	8.13	43	11068205	307.87	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	13335074	293.22	ug/l	99
26) 2-Butanone	8.82	43	11112415	1258.48	ug/l	100
27) 2,2-Dichloropropane	9.07	77	5170079	354.52	ug/l	96
28) cis-1,2-Dichloroethene	9.13	61	9097834	279.01	ug/l	99
30) Chloroform	9.40	83	8271418	266.17	ug/l	99
31) Bromochloromethane	9.66	49	5108936	269.14	ug/l	98
32) Tetrahydrofuran	9.74	42	3343332	635.27	ug/l	99
33) 1,1,1-Trichloroethane	10.05	97	6751257	291.17	ug/l	99
34) Cyclohexane	10.11	56	8506709	272.24	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	9577721	314.13	ug/l	98
38) 1,1-Dichloropropene	10.30	77	2211110	269.75	ug/l	99
39) Carbon tetrachloride	10.50	119	5247374	281.54	ug/l	98
40) 1,2-Dichloroethane	10.69	62	7743928	257.21	ug/l	100
41) Benzene	10.76	78	15115278	252.82	ug/l	96
42) Trichloroethene	11.76	130	4146124	265.78	ug/l	99
43) Methylcyclohexane	11.91	83	6722206	261.53	ug/l	97
44) 1,2-Dichloropropane	12.04	63	5268192	275.39	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RBB062.D VO03B03.M Mon Feb 06 19:23:08 2006

for 2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB062.D Vial: 10
 Acq On : 3 Feb 2006 6:38 pm Operator: CGM
 Sample : VO03B039 300/1200/1500 Inst : TO03
 Misc : 300ppb 8260/1200ppb Ket-AA/1500ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 9:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 09:16:22 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Bromodichloromethane	12.46	83	6708032	300.34	ug/l	99
46) Dibromomethane	12.56	93	2942609	268.33	ug/l	99
47) 2-Chloroethyl vinyl ether	12.89	63	2487815	328.30	ug/l	99
48) 4-Methyl-2-pentanone	12.96	43	25031774	1179.97	ug/l	97
49) cis-1,3-Dichloropropene	13.38	75	7240254	282.98	ug/l	99
51) Toluene	14.03	91	14818624	253.94	ug/l	98
52) Ethyl methacrylate	14.23	69	5752937	305.37	ug/l	96
53) trans-1,3-Dichloropropene	14.30	75	6028675	292.65	ug/l	98
54) 1,1,2-Trichloroethane	14.64	97	3430151	273.99	ug/l	97
55) 2-Hexanone	14.60	43	17223857	1220.15	ug/l	98
56) 1,3-Dichloropropane	15.15	76	6687726	285.02	ug/l	99
57) Tetrachloroethene	15.37	164	3554553	264.74	ug/l	99
58) Dibromochloromethane	15.77	129	4451176	289.73	ug/l	99
59) 1,2-Dibromoethane	16.22	107	3514373	299.02	ug/l	98
60) 1-Chlorohexane	16.47	91	6108991	291.41	ug/l	98
61) Chlorobenzene	17.17	112	9880884	256.85	ug/l	97
62) 1,1,1,2-Tetrachloroethane	17.23	131	3771461	300.01	ug/l	100
63) Ethylbenzene	17.24	91	16879231	246.46	ug/l	97
64) m-Xylene & p-Xylene	17.44	91	25536644	453.68	ug/l	93
65) o-Xylene	18.51	91	15634850	268.27	ug/l	97
66) Styrene	18.58	104	11134918	278.52	ug/l	98
68) Bromoform	19.50	173	3247390	291.63	ug/l	99
69) Isopropylbenzene	19.41	105	15519358	259.63	ug/l	96
70) 1,1,2,2-Tetrachloroethane	19.83	83	5358852	295.78	ug/l	100
72) 1,2,3-Trichloropropane	20.23	61	1386793	283.95	ug/l	94
73) trans-1,4-Dichloro-2-buten	20.38	53	1212554	388.37	ug/l	99
74) n-Propylbenzene	20.50	91	21993038	253.32	ug/l	97
75) Bromobenzene	20.67	156	4741896	265.73	ug/l	99
76) 2-Chlorotoluene	21.03	91	16988787	312.23	ug/l	88
77) 1,3,5-Trimethylbenzene	20.94	105	15282897	264.06	ug/l	99
78) 4-Chlorotoluene	21.16	91	15629319	260.35	ug/l	100
79) tert-Butylbenzene	21.97	119	12474102	267.60	ug/l	98
80) 1,2,4-Trimethylbenzene	22.09	105	15460885	261.88	ug/l	100
81) sec-Butylbenzene	22.61	105	19429486	260.56	ug/l	98
82) p-Isopropyltoluene	22.99	119	14381562	265.67	ug/l	96
83) 1,3-Dichlorobenzene	23.27	146	8356376	257.75	ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	8323295	253.18	ug/l	96
85) n-Butylbenzene	24.00	91	16352260	259.61	ug/l	97
86) 1,2-Dichlorobenzene	24.37	146	8032760	256.61	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.93	157	1044370	297.42	ug/l	96
88) 1,2,4-Trichlorobenzene	27.73	180	6954202	277.73	ug/l	99
89) Hexachlorobutadiene	28.01	225	5701799	277.17	ug/l	100
90) Naphthalene	28.28	128	12542442	298.07	ug/l	97
91) 1,2,3-Trichlorobenzene	28.80	180	6462624	284.48	ug/l	99

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1-9-06*

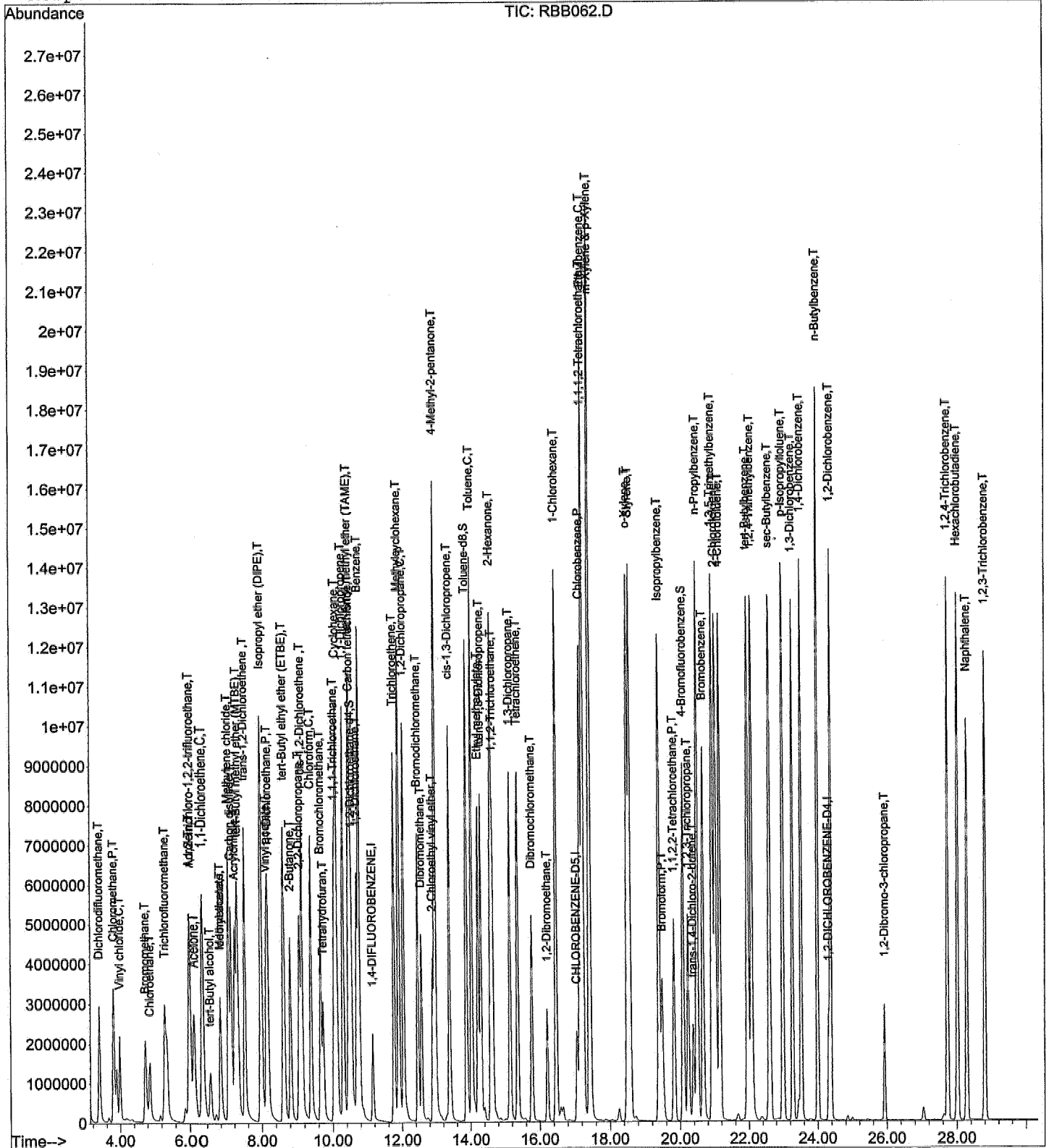
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB062.D
Acq On : 3 Feb 2006 6:38 pm
Sample : VO03B039 300/1200/1500
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 9:19 2006

Vial: 10
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
 Acq On : 3 Feb 2006 8:30 pm Operator: CGM
 Sample : IVO03B031 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration ** Not valid for Acrokin.*

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
1 I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	50.000	44.633	10.7	93	-0.02
3 P,T	Chloromethane	50.000	43.649	12.7	98	0.00
4 C,T	Vinyl chloride	50.000	41.305	17.4	97	0.00
5 T	Bromomethane	50.000	45.234	9.5	92	0.00
6 T	Chloroethane	50.000	46.754	6.5	97	0.00
7 T	Trichlorofluoromethane	50.000	47.715	4.6	101	0.00
8 T	sec-Propyl alcohol	-1.000	0.000	0.0	110	0.00
9 T	Acrolein	200.000	261.514	* -30.8#	123	0.00
10 T	1,1,2-Trichloro-1,2,2-trifl	50.000	47.141	5.7	93	0.00
11 T	Acetone	200.000	190.680	4.7	98	0.00
12 C,T	1,1-Dichloroethene	50.000	46.201	7.6	95	0.00
13 T	tert-Butyl alcohol	250.000	261.609	-4.6	94	0.00
14 T	Acetonitrile	-1.000	0.000	0.0	93	0.00
15 T	Iodomethane	50.000	62.362	-24.7#	120	0.00
17 T	Methylene chloride	50.000	48.323	3.4	96	0.00
18 T	Carbon disulfide	50.000	54.524	-9.0	105	0.00
19 T	Acrylonitrile	200.000	195.623	2.2	94	0.00
20 T	tert-Butyl methyl ether (MT)	50.000	45.927	8.1	94	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.895	2.2	96	0.00
22 T	Isopropyl ether (DIPE)	50.000	52.871	-5.7	101	0.00
23 P,T	1,1-Dichloroethane	50.000	49.446	1.1	97	0.00
24 T	Vinyl acetate	50.000	51.347	-2.7	94	0.00
25 T	tert-Butyl ethyl ether (ETB)	50.000	48.744	2.5	99	0.00
26 T	2-Butanone	200.000	201.435	-0.7	95	0.00
27 T	2,2-Dichloropropane	50.000	54.521	-9.0	97	0.00
28 T	cis-1,2-Dichloroethene	50.000	48.941	2.1	96	0.00
29 T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	95	-0.02
30 C,T	Chloroform	50.000	48.963	2.1	97	0.00
31 T	Bromochloromethane	50.000	46.360	7.3	92	0.00
32 T	Tetrahydrofuran	100.000	97.525	2.5	93	0.00
33 T	1,1,1-Trichloroethane	50.000	50.012	-0.0	94	0.00
35 T	tert-Amyl methyl ether (TAM)	50.000	50.294	-0.6	93	0.00
36 S	1,2-Dichloroethane-d4	50.000	51.093	-2.2	119	0.00
37 I	CHLOROBENZENE-D5	50.000	50.000	0.0	100	0.00
38 T	1,1-Dichloropropene	50.000	49.532	0.9	92	0.00
39 T	Carbon tetrachloride	50.000	50.148	-0.3	92	0.00
40 T	1,2-Dichloroethane	50.000	48.004	4.0	93	0.00
41 T	Benzene	50.000	50.786	-1.6	96	0.00
42 T	Trichloroethene	50.000	48.587	2.8	93	0.00
44 C,T	1,2-Dichloropropane	50.000	50.166	-0.3	96	0.00
45 T	Bromodichloromethane	50.000	49.451	1.1	89	0.00
46 T	Dibromomethane	50.000	48.574	2.9	90	0.00
47 T	2-Chloroethyl vinyl ether	50.000	53.642	-7.3	101	0.00
48 T	4-Methyl-2-pentanone	200.000	208.169	-4.1	93	0.00
49 T	cis-1,3-Dichloropropene	50.000	45.871	8.3	88	0.00
50 S	Toluene-d8	50.000	55.532	-11.1	120	-0.02
51 C,T	Toluene	50.000	49.937	0.1	94	0.00
52 T	Ethyl methacrylate	50.000	50.297	-0.6	91	0.00
53 T	trans-1,3-Dichloropropene	50.000	46.835	6.3	92	0.00
54 T	1,1,2-Trichloroethane	50.000	47.515	5.0	88	0.00
55 T	2-Hexanone	200.000	208.121	-4.1	93	0.00
56 T	1,3-Dichloropropane	50.000	48.769	2.5	89	-0.02

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57	T	Tetrachloroethene	50.000	48.901	2.2	93	-0.02
58	T	Dibromochloromethane	50.000	45.382	9.2	88	0.00
59	T	1,2-Dibromoethane	50.000	48.061	3.9	86	0.00
60	T	1-Chlorohexane	50.000	51.752	-3.5	93	0.00
61	P	Chlorobenzene	50.000	47.817	4.4	91	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	50.746	-1.5	90	0.00
63	C,T	Ethylbenzene	50.000	49.788	0.4	93	0.00
64	T	m-Xylene & p-Xylene	100.000	102.884	-2.9	94	0.00
65	T	o-Xylene	50.000	50.839	-1.7	92	-0.02
66	T	Styrene	50.000	48.998	2.0	89	-0.02
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	99	0.00
68	P,T	Bromoform	50.000	41.344	17.3	82	0.00
69	T	Isopropylbenzene	50.000	56.948	-13.9	103	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	46.984	6.0	87	-0.02
71	S	4-Bromofluorobenzene	50.000	55.270	-10.5	121	-0.02
72	T	1,2,3-Trichloropropane	50.000	43.531	12.9	86	-0.02
73	T	trans-1,4-Dichloro-2-butene	50.000	61.376	-22.8#	121	-0.02
74	T	n-Propylbenzene	50.000	51.563	-3.1	93	0.00
75	T	Bromobenzene	50.000	50.134	-0.3	92	0.00
76	T	2-Chlorotoluene	50.000	45.854	8.3	90	-0.02
77	T	1,3,5-Trimethylbenzene	50.000	52.283	-4.6	94	0.00
78	T	4-Chlorotoluene	50.000	50.893	-1.8	94	0.00
79	T	tert-Butylbenzene	50.000	51.701	-3.4	94	-0.02
80	T	1,2,4-Trimethylbenzene	50.000	50.541	-1.1	93	-0.02
81	T	sec-Butylbenzene	50.000	49.294	1.4	90	0.00
82	T	p-Isopropyltoluene	50.000	54.575	-9.2	98	0.00
83	T	1,3-Dichlorobenzene	50.000	49.332	1.3	92	-0.02
84	T	1,4-Dichlorobenzene	50.000	48.449	3.1	90	0.00
85	T	n-Butylbenzene	50.000	52.183	-4.4	95	0.00
86	T	1,2-Dichlorobenzene	50.000	48.528	2.9	92	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	42.348	15.3	84	0.00
88	T	1,2,4-Trichlorobenzene	50.000	49.403	1.2	94	0.00
89	T	Hexachlorobutadiene	50.000	48.272	3.5	94	0.00
90	T	Naphthalene	50.000	50.149	-0.3	90	0.00
91	T	1,2,3-Trichlorobenzene	50.000	49.601	0.8	93	0.00

(#) = Out of Range
RBB058.D VO03B03.M

SPCC's out = 0 CCC's out = 0
Mon Feb 06 19:27:45 2006

2-7-06

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
 Acq On : 3 Feb 2006 8:30 pm Operator: CGM
 Sample : IVO03B031 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-DIFLUOROENZENE	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	0.465	0.415	10.8	93	-0.02
3 P,T	Chloromethane	0.581	0.508	12.6	98	0.00
4 C,T	Vinyl chloride	0.352	0.297	15.6	97	0.00
5 T	Bromomethane	0.269	0.243	9.7	92	0.00
6 T	Chloroethane	0.221	0.207	6.3	97	0.00
7 T	Trichlorofluoromethane	0.502	0.479	4.6	101	0.00
8 T	sec-Propyl alcohol	0.000	0.000	0.0	110	0.00
9 T	Acrolein	0.042	0.055	-31.0#	123	0.00
10 T	1,1,2-Trichloro-1,2,2-trifl	0.245	0.231	5.7	93	0.00
11 T	Acetone	0.155	0.147	5.2	98	0.00
12 C,T	1,1-Dichloroethene	0.757	0.700	7.5	95	0.00
13 T	tert-Butyl alcohol	0.027	0.029	-7.4	94	0.00
14 T	Acetonitrile	0.000	0.000	0.0	93	0.00
15 T	Iodomethane	0.314	0.392	-24.8#	120	0.00
17 T	Methylene chloride	0.829	0.729	12.1	96	0.00
18 T	Carbon disulfide	1.076	1.173	-9.0	105	0.00
19 T	Acrylonitrile	0.125	0.122	2.4	94	0.00
20 T	tert-Butyl methyl ether (MT)	0.686	0.704	-2.6	94	0.00
21 T	trans-1,2-Dichloroethene	0.727	0.711	2.2	96	0.00
22 T	Isopropyl ether (DIPE)	1.596	1.688	-5.8	101	0.00
23 P,T	1,1-Dichloroethane	0.794	0.785	1.1	97	0.00
24 T	Vinyl acetate	0.851	0.874	-2.7	94	0.00
25 T	tert-Butyl ethyl ether (ETB)	0.951	1.028	-8.1	99	0.00
26 T	2-Butanone	0.209	0.210	-0.5	95	0.00
27 T	2,2-Dichloropropane	0.345	0.376	-9.0	97	0.00
28 T	cis-1,2-Dichloroethene	0.772	0.755	2.2	96	0.00
29 T	tert-Butyl formate (TBF)	0.000	0.000	0.0	95	-0.02
30 C,T	Chloroform	0.736	0.720	2.2	97	0.00
31 T	Bromochloromethane	0.449	0.417	7.1	92	0.00
32 T	Tetrahydrofuran	0.125	0.121	3.2	93	0.00
33 T	1,1,1-Trichloroethane	0.549	0.549	0.0	94	0.00
35 T	tert-Amyl methyl ether (TAM)	0.722	0.726	-0.6	93	0.00
36 S	1,2-Dichloroethane-d4	0.515	0.526	-2.1	119	0.00
37 I	CHLOROENZENE-D5	1.000	1.000	0.0	100	0.00
38 T	1,1-Dichloropropene	0.205	0.203	1.0	92	0.00
39 T	Carbon tetrachloride	0.466	0.467	-0.2	92	0.00
40 T	1,2-Dichloroethane	0.752	0.722	4.0	93	0.00
41 T	Benzene	1.494	1.517	-1.5	96	0.00
42 T	Trichloroethene	0.390	0.379	2.8	93	0.00
44 C,T	1,2-Dichloropropane	0.478	0.480	-0.4	96	0.00
45 T	Bromodichloromethane	0.558	0.552	1.1	89	0.00
46 T	Dibromomethane	0.274	0.266	2.9	90	0.00
47 T	2-Chloroethyl vinyl ether	0.189	0.203	-7.4	101	0.00
48 T	4-Methyl-2-pentanone	0.530	0.552	-4.2	93	0.00
49 T	cis-1,3-Dichloropropene	0.576	0.564	2.1	88	0.00
50 S	Toluene-d8	1.131	1.256	-11.1	120	-0.02
51 C,T	Toluene	1.458	1.456	0.1	94	0.00
52 T	Ethyl methacrylate	0.471	0.473	-0.4	91	0.00
53 T	trans-1,3-Dichloropropene	0.434	0.453	-4.4	92	0.00
54 T	1,1,2-Trichloroethane	0.313	0.297	5.1	88	0.00
55 T	2-Hexanone	0.353	0.367	-4.0	93	0.00
56 T	1,3-Dichloropropane	0.586	0.572	2.4	89	-0.02

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57	T	Tetrachloroethene	0.335	0.328	2.1	93	-0.02
58	T	Dibromochloromethane	0.338	0.332	1.8	88	0.00
59	T	1,2-Dibromoethane	0.294	0.282	4.1	86	0.00
60	T	1-Chlorohexane	0.524	0.542	-3.4	93	0.00
61	P	Chlorobenzene	0.961	0.919	4.4	91	0.00
62	T	1,1,1,2-Tetrachloroethane	0.314	0.319	-1.6	90	0.00
63	C,T	Ethylbenzene	1.711	1.704	0.4	93	0.00
64	T	m-Xylene & p-Xylene	1.406	1.447	-2.9	94	0.00
65	T	o-Xylene	1.456	1.480	-1.6	92	-0.02
66	T	Styrene	0.999	0.979	2.0	89	-0.02
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	99	0.00
68	P,T	Bromoform	0.428	0.397	7.2	82	0.00
69	T	Isopropylbenzene	2.804	3.194	-13.9	103	0.00
70	P,T	1,1,2,2-Tetrachloroethane	0.850	0.799	6.0	87	-0.02
71	S	4-Bromofluorobenzene	1.129	1.249	-10.6	121	-0.02
72	T	1,2,3-Trichloropropane	0.229	0.199	13.1	86	-0.02
73	T	trans-1,4-Dichloro-2-butene	0.127	0.175	-37.8#	121	-0.02
74	T	n-Propylbenzene	4.073	4.200	-3.1	93	0.00
75	T	Bromobenzene	0.837	0.839	-0.2	92	0.00
76	T	2-Chlorotoluene	2.553	2.341	8.3	90	-0.02
77	T	1,1,5-Trimethylbenzene	2.715	2.839	-4.6	94	0.00
78	T	4-Chlorotoluene	2.816	2.867	-1.8	94	0.00
79	T	tert-Butylbenzene	2.187	2.261	-3.4	94	-0.02
80	T	1,2,4-Trimethylbenzene	2.770	2.800	-1.1	93	-0.02
81	T	sec-Butylbenzene	3.498	3.449	1.4	90	0.00
82	T	p-Isopropyltoluene	2.540	2.772	-9.1	98	0.00
83	T	1,3-Dichlorobenzene	1.521	1.501	1.3	92	-0.02
84	T	1,4-Dichlorobenzene	1.542	1.494	3.1	90	0.00
85	T	n-Butylbenzene	2.955	3.084	-4.4	95	0.00
86	T	1,2-Dichlorobenzene	1.469	1.425	3.0	92	0.00
87	T	1,2-Dibromo-3-chloropropane	0.137	0.129	5.8	84	0.00
88	T	1,2,4-Trichlorobenzene	1.175	1.161	1.2	94	0.00
89	T	Hexachlorobutadiene	0.965	0.932	3.4	94	0.00
90	T	Naphthalene	1.974	1.980	-0.3	90	0.00
91	T	1,2,3-Trichlorobenzene	1.066	1.057	0.8	93	0.00

(#) = Out of Range
RBB058.D VO03B03.M

SPCC's out = 0 CCC's out = 0
Mon Feb 06 19:28:15 2006

pu
2-9-06

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
 Acq On : 3 Feb 2006 8:30 pm Operator: CGM
 Sample : IVO03B031 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 13:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2420063	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2191990	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	1112308	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2-Dichloroethane-d4	10.54	65	1273535	51.09	ug/l	0.00
Spiked Amount						
			Recovery	=	102.18%	
50) Toluene-d8	13.87	98	2753464	55.53	ug/l	-0.02
Spiked Amount						
			Recovery	=	111.06%	
71) 4-Bromofluorobenzene	20.08	95	1388748	55.27	ug/l	-0.02
Spiked Amount						
			Recovery	=	110.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.38	85	1004022	44.63	ug/l	99
3) Chloromethane	3.81	50	1228304	43.65	ug/l	99
4) Vinyl chloride	4.00	62	717859	41.30	ug/l	99
5) Bromomethane	4.76	94	587918	45.23	ug/l	99
6) Chloroethane	4.89	64	500911	46.75	ug/l	97
7) Trichlorofluoromethane	5.32	101	1158221	47.71	ug/l	99
9) Acrolein	5.98	56	529145	261.51	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	557893	47.14	ug/l	99
11) Acetone	6.08	43	1427712	190.68	ug/l	99
12) 1,1-Dichloroethene	6.31	61	1693111	46.20	ug/l	99
13) tert-Butyl alcohol	6.44	59	346568	261.61	ug/l	98
15) Iodomethane	6.81	142	948089	62.36	ug/l	99
16) Methyl acetate	6.80	43	113737	6.05	ug/l	99
17) Methylene chloride	7.05	49	1763056	48.32	ug/l	100
18) Carbon disulfide	7.12	76	2838558	54.52	ug/l	100
19) Acrylonitrile	7.21	53	1185298	195.62	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	1702902	45.93	ug/l	99
21) trans-1,2-Dichloroethene	7.52	61	1719814	48.90	ug/l	99
22) Isopropyl ether (DIPE)	7.98	45	4084159	52.87	ug/l	99
23) 1,1-Dichloroethane	8.18	63	1899543	49.45	ug/l	99
24) Vinyl acetate	8.13	43	2114667	51.35	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	2486947	48.74	ug/l	99
26) 2-Butanone	8.80	43	2037594	201.43	ug/l	100
27) 2,2-Dichloropropane	9.07	77	910827	54.52	ug/l	98
28) cis-1,2-Dichloroethene	9.14	61	1828137	48.94	ug/l	99
30) Chloroform	9.40	83	1743029	48.96	ug/l	99
31) Bromochloromethane	9.66	49	1008139	46.36	ug/l	99
32) Tetrahydrofuran	9.74	42	587977	97.52	ug/l	100
33) 1,1,1-Trichloroethane	10.05	97	1328403	50.01	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	1756698	50.29	ug/l	99
38) 1,1-Dichloropropene	10.30	77	444694	49.53	ug/l	99
39) Carbon tetrachloride	10.50	119	1023701	50.15	ug/l	99
40) 1,2-Dichloroethane	10.69	62	1582982	48.00	ug/l	100
41) Benzene	10.76	78	3325660	50.79	ug/l	99
42) Trichloroethene	11.76	130	830154	48.59	ug/l	99
44) 1,2-Dichloropropane	12.04	63	1051093	50.17	ug/l	98
45) Bromodichloromethane	12.46	83	1209694	49.45	ug/l	100
46) Dibromomethane	12.56	93	583435	48.57	ug/l	100

(#) = qualifier out of range (m) = manual integration
 RBB065.D VO03B03.M Mon Feb 06 19:28:40 2006

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2-06
 2073 Page 1

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
 Acq On : 3 Feb 2006 8:30 pm Operator: CGM
 Sample : IVO03B031 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Feb 6 13:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) 2-Chloroethyl vinyl ether	12.89	63	445218	53.64	ug/l	100
48) 4-Methyl-2-pentanone	12.95	43	4836823	208.17	ug/l	99
49) cis-1,3-Dichloropropene	13.38	75	1235270	45.87	ug/l	99
51) Toluene	14.03	91	3191719	49.94	ug/l	99
52) Ethyl methacrylate	14.21	69	1037826	50.30	ug/l	98
53) trans-1,3-Dichloropropene	14.30	75	992730	46.84	ug/l	99
54) 1,1,2-Trichloroethane	14.64	97	651523	47.52	ug/l	98
55) 2-Hexanone	14.58	43	3217769	208.12	ug/l	98
56) 1,3-Dichloropropane	15.13	76	1253311	48.77	ug/l	99
57) Tetrachloroethene	15.35	164	719117	48.90	ug/l	98
58) Dibromochloromethane	15.77	129	727566	45.38	ug/l	99
59) 1,2-Dibromoethane	16.22	107	618683	48.06	ug/l	96
60) 1-Chlorohexane	16.47	91	1188291	51.75	ug/l	99
61) Chlorobenzene	17.15	112	2014767	47.82	ug/l	98
62) 1,1,1,2-Tetrachloroethane	17.23	131	698721	50.75	ug/l	99
63) Ethylbenzene	17.24	91	3734719	49.79	ug/l	100
64) m-Xylene & p-Xylene	17.42	91	6342881	102.88	ug/l	100
65) o-Xylene	18.49	91	3245220	50.84	ug/l	99
66) Styrene	18.56	104	2145505	49.00	ug/l	100
68) Bromoform	19.49	173	442030	41.34	ug/l	99
69) Isopropylbenzene	19.40	105	3552553	56.95	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.81	83	888399	46.98	ug/l	100
72) 1,2,3-Trichloropropane	20.21	61	221884	43.53	ug/l	96
73) trans-1,4-Dichloro-2-buten	20.36	53	194236	61.38	ug/l	96
74) n-Propylbenzene	20.48	91	4672055	51.56	ug/l	99
75) Bromobenzene	20.66	156	933650	50.13	ug/l	100
76) 2-Chlorotoluene	21.02	91	2603868	45.85	ug/l	99
77) 1,3,5-Trimethylbenzene	20.93	105	3157994	52.28	ug/l	99
78) 4-Chlorotoluene	21.15	91	3188604	50.89	ug/l	98
79) tert-Butylbenzene	21.95	119	2515241	51.70	ug/l	98
80) 1,2,4-Trimethylbenzene	22.07	105	3114135	50.54	ug/l	100
81) sec-Butylbenzene	22.61	105	3836283	49.29	ug/l	99
82) p-Isopropyltoluene	22.99	119	3083309	54.58	ug/l	99
83) 1,3-Dichlorobenzene	23.26	146	1669201	49.33	ug/l	100
84) 1,4-Dichlorobenzene	23.53	146	1662288	48.45	ug/l	99
85) n-Butylbenzene	23.99	91	3430354	52.18	ug/l	100
86) 1,2-Dichlorobenzene	24.37	146	1585422	48.53	ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.93	157	143926	42.35	ug/l	97
88) 1,2,4-Trichlorobenzene	27.73	180	1291031	49.40	ug/l	99
89) Hexachlorobutadiene	28.01	225	1036359	48.27	ug/l	99
90) Naphthalene	28.28	128	2202291	50.15	ug/l	100
91) 1,2,3-Trichlorobenzene	28.80	180	1175973	49.60	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RBB065.D VO03B03.M Mon Feb 06 19:28:41 2006

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 2-9-06

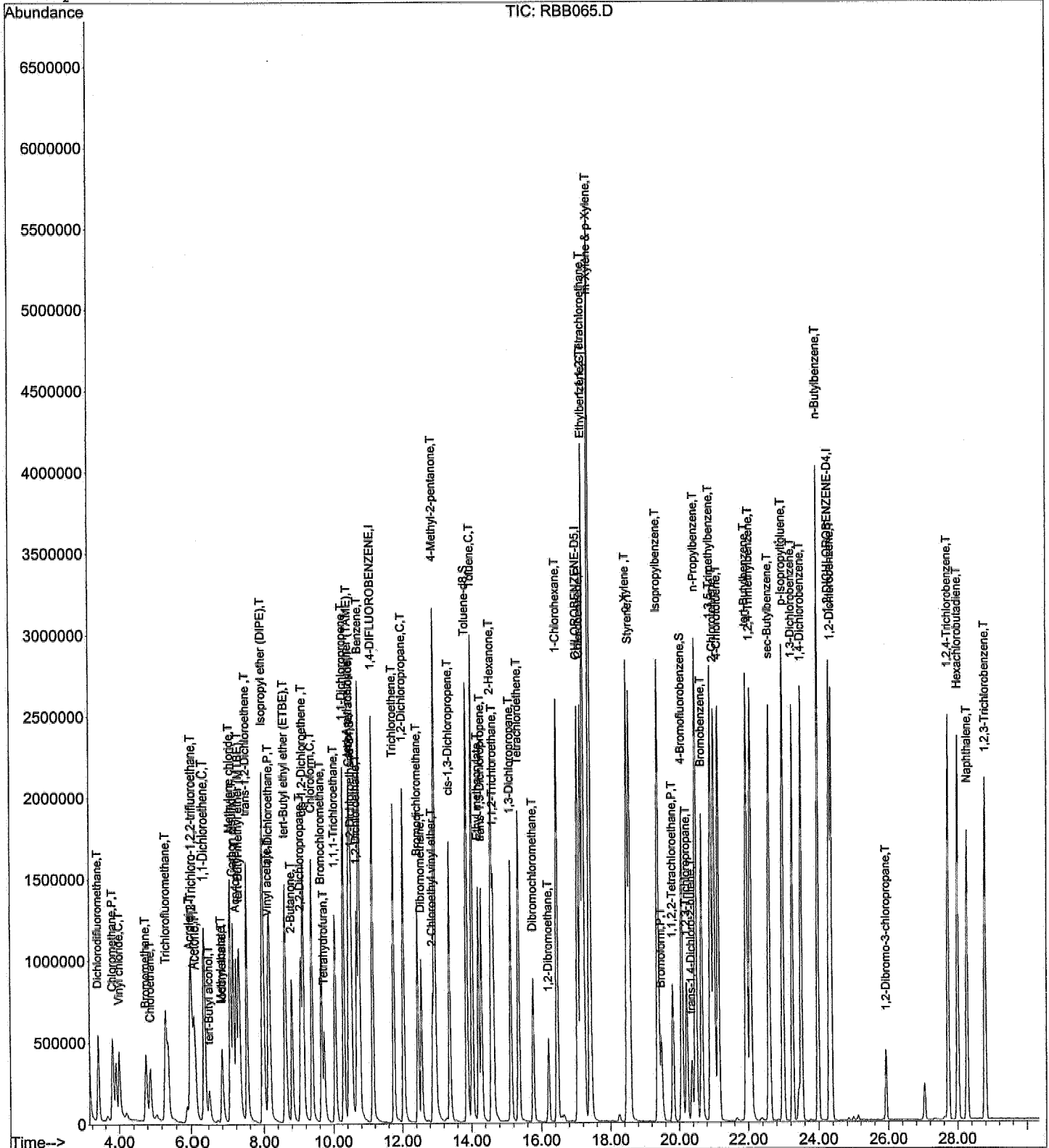
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D
Acq On : 3 Feb 2006 8:30 pm
Sample : IVO03B031 50/200/250
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA
MS Integration Params: 524INT.P
Quant Time: Feb 6 13:19 2006

Vial: 13
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



DAILY CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc Contract: UPGRADIENT INVESTIGATION, TRONOX
 Lab Code: EMXT Case No.: SAS No.: SDG No.: 06C119
 Lab File ID: RCB297 BFB Injection Date : 03/17/06
 Instrument ID: 1-003 BFB Injection Time : 16:52
 GC Column: RTX502.2ID:0.32mm (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.78
75	30.0 - 60.0% of mass 95	54.13
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.35
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	69.92
175	5.0 - 9.0% of mass 174	5.49(7.8)1
176	95.0 - 101.0% of mass 174	67.98(97.2)1
177	5.0 - 9.0% of mass 176	4.82(7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV003B0384	RCB298	03/17/06	17:29
2	MBLK1W	V003C26B	RCB304	03/17/06	21:12
3	LCS1W	V003C26L	RCB302	03/17/06	19:58
4	LCD1W	V003C26C	RCB303	03/17/06	20:35
5	TR-10A	C119-01	RCB310	03/18/06	00:54
6	PUMP BLANK	C119-02	RCB311	03/18/06	01:32

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc.
Lab Code: EMXT
Lab File ID: R88058
Instrument ID: I-003
GC Column: RTX502.2

ID: 0.32mm (mm)

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C119
Date Analyzed: 02/03/06
Time Analyzed: 16:09
Heated Purge: (Y/N) N

	IS1(DFB)		IS2(CBZ)		IS3(DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	2354321	11.16	2189381	17.07	1126337	24.32
UPPER LIMIT	4708642	11.66	4378762	17.57	2252674	24.82
LOWER LIMIT	1177161	10.66	1094691	16.57	563169	23.82
SAMPLE ID						
1 VSTD050	2696847	11.16	2501375	17.08	1337412	24.32
2 MBLK1W	2308513	11.17	2156394	17.08	1069293	24.32
3 LCS1W	2480958	11.15	2352083	17.08	1229388	24.32
4 LCD1W	2178004	11.15	2023723	17.08	1059504	24.32
5 TR-10A	2098171	11.17	2130926	17.08	1089474	24.32
6 PUMP BLANK	2327053	11.16	2215476	17.07	1106564	24.32

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

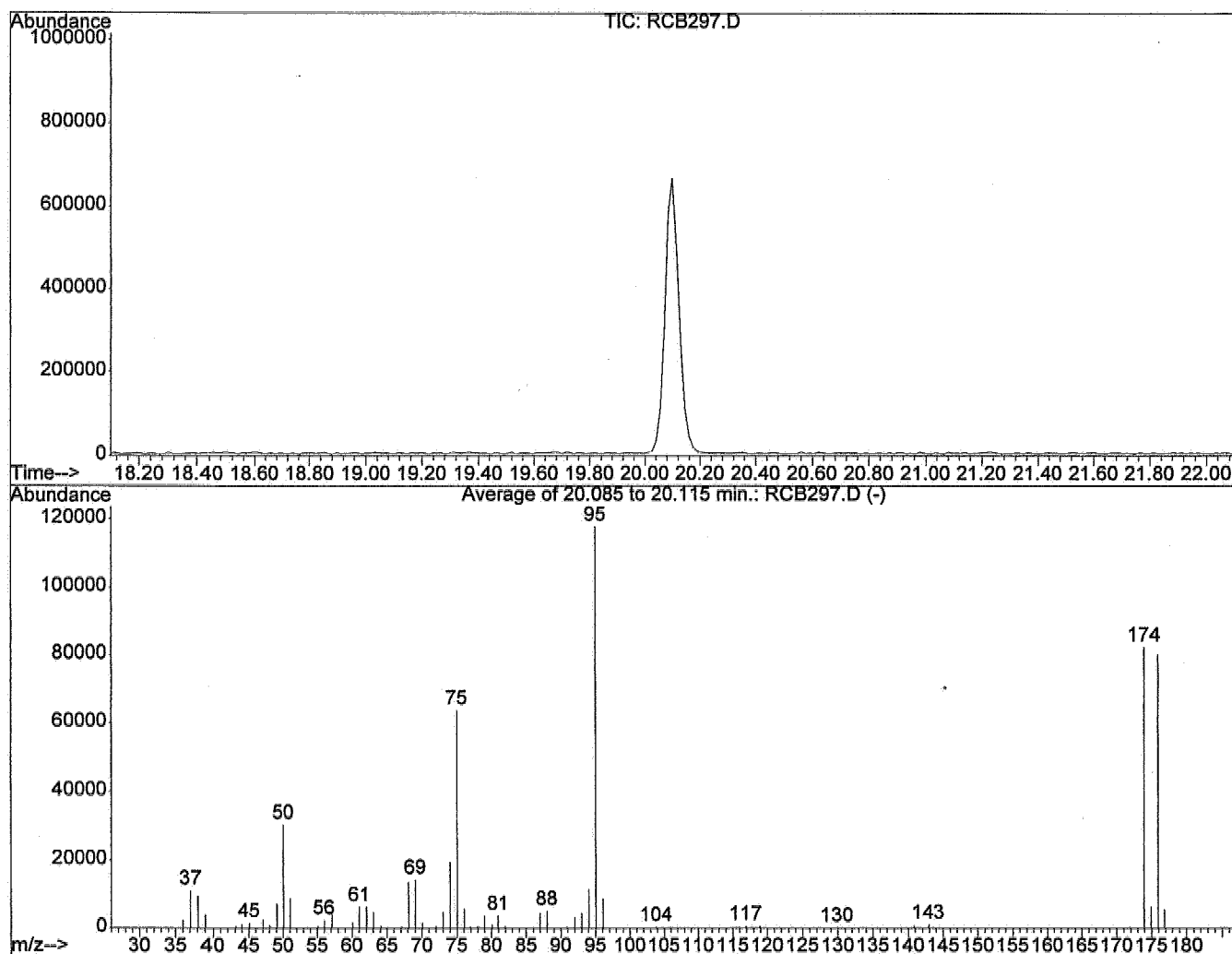
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

BFB

Data File : D:\HPCHEM\1\DATA\06C17\RCB297.D
Acq On : 17 Mar 2006 4:52 pm
Sample : BFB03C25
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260

Vial: 1
Operator: CGM
Inst : T003
Multiplr: 1.00



AutoFind: Scans 1142, 1143, 1144; Background Corrected with Scan 1135

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8 ✓	30363	PASS
75	95	30	60	54.1 ✓	63755	PASS
95	95	100	100	100.0 ✓	117787	PASS
96	95	5	9	7.4	8658	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.9	82360	PASS
175	174	5	9	7.8	6462	PASS
176	174	95	101	97.2	80069	PASS
177	176	5	9	7.1 ✓	5679	PASS

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
 Acq On : 17 Mar 2006 5:29 pm Operator: CGM
 Sample : CVO03B0384 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	115	0.00
2 T	Dichlorodifluoromethane	50.000	45.313	9.4	105	0.00
3 P,T	Chloromethane	50.000	44.530	10.9	111	0.00
4 C,T	Vinyl chloride	50.000	47.169	5.7	120	0.01
5 T	Bromomethane	50.000	49.161	1.7	112	0.00
6 T	Chloroethane	50.000	56.810	-13.6	131	0.00
7 T	Trichlorofluoromethane	50.000	56.521	-13.0	134	0.00
8 T	sec-Propyl alcohol	-1.000	0.000	0.0	58	0.00
9 T	Acrolein	200.000	227.587	-13.8	119	0.00
10 T	1,1,2-Trichloro-1,2,2-trifl	50.000	51.234	-2.5	113	0.00
11 T	Acetone	200.000	190.811	4.6	109	0.00
12 C,T	1,1-Dichloroethene	50.000	46.834	6.3	107	0.00
13 T	tert-Butyl alcohol	250.000	246.074	1.6	98	0.00
14 T	Acetonitrile	-1.000	0.000	0.0	134	0.00
15 T	Iodomethane	50.000	43.336	13.3	93	0.00
16 T	Methyl acetate	50.000	3.108	NT 93.8#	7	0.00
17 T	Methylene chloride	50.000	49.084	1.8	108	0.00
18 T	Carbon disulfide	50.000	44.325	11.3	96	0.00
19 T	Acrylonitrile	200.000	188.598	5.7	102	0.00
20 T	tert-Butyl methyl ether (MT)	50.000	49.124	1.8	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.757	0.5	109	0.00
22 T	Isopropyl ether (DIPE)	50.000	51.748	-3.5	110	0.00
23 P,T	1,1-Dichloroethane	50.000	50.432	-0.9	110	0.00
24 T	Vinyl acetate	50.000	56.258	-12.5	115	0.00
25 T	tert-Butyl ethyl ether (ETB)	50.000	52.374	-4.7	119	0.00
26 T	2-Butanone	200.000	194.339	2.8	102	0.00
27 T	2,2-Dichloropropane	50.000	60.938	-21.9#	121	0.01
28 T	cis-1,2-Dichloroethene	50.000	51.974	-3.9	113	0.00
29 T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	119	0.00
30 C,T	Chloroform	50.000	50.428	-0.9	111	0.00
31 T	Bromochloromethane	50.000	47.826	4.3	106	0.00
32 T	Tetrahydrofuran	100.000	0.643	NT 99.4#	1	0.07
33 T	1,1,1-Trichloroethane	50.000	52.219	-4.4	109	0.00
34 T	Cyclohexane	50.000	0.263	NT 99.5#	1	-0.05
35 T	tert-Amyl methyl ether (TAM)	50.000	54.613	-9.2	113	0.00
36 S	1,2-Dichloroethane-d4	50.000	51.697	-3.4	134	0.00
37 I	CHLOROBENZENE-D5	50.000	50.000	0.0	114	0.00
38 T	1,1-Dichloropropene	50.000	50.303	-0.6	107	0.00
39 T	Carbon tetrachloride	50.000	53.685	-7.4	112	0.00
40 T	1,2-Dichloroethane	50.000	50.133	-0.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
 Acq On : 17 Mar 2006 5:29 pm Operator: CGM
 Sample : CVO03B0384 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41 T	Benzene	50.000	50.270	-0.5	108	0.00
42 T	Trichloroethene	50.000	50.696	-1.4	110	0.00
43 T	Methylcyclohexane	50.000	0.503	NT	99.0#	1 -0.14
44 C,T	1,2-Dichloropropane	50.000	49.841	✓0.3	108	0.00
45 T	Bromodichloromethane	50.000	52.681	-5.4	108	0.00
46 T	Dibromomethane	50.000	50.536	-1.1	107	0.00
47 T	2-Chloroethyl vinyl ether	50.000	52.602	-5.2	114	0.01
48 T	4-Methyl-2-pentanone	200.000	202.336	-1.2	103	0.00
49 T	cis-1,3-Dichloropropene	50.000	50.650	-1.3	112	0.00
50 S	Toluene-d8	50.000	51.285	-2.6	127	0.00
51 C,T	Toluene	50.000	50.618	✓-1.2	109	0.00
52 T	Ethyl methacrylate	50.000	50.454	-0.9	105	0.00
53 T	trans-1,3-Dichloropropene	50.000	49.049	1.9	110	0.00
54 T	1,1,2-Trichloroethane	50.000	50.283	-0.6	107	0.00
55 T	2-Hexanone	200.000	201.078	-0.5	103	0.00
56 T	1,3-Dichloropropane	50.000	51.802	-3.6	108	0.00
57 T	Tetrachloroethene	50.000	50.853	-1.7	110	0.00
58 T	Dibromochloromethane	50.000	48.932	2.1	109	0.00
59 T	1,2-Dibromoethane	50.000	53.807	-7.6	110	0.00
60 T	1-Chlorohexane	50.000	53.838	-7.7	110	0.00
61 P	Chlorobenzene	50.000	50.916	-1.8	111	0.00
62 T	1,1,1,2-Tetrachloroethane	50.000	54.520	-9.0	110	0.00
63 C,T	Ethylbenzene	50.000	52.060	✓-4.1	110	0.00
64 T	m-Xylene & p-Xylene	100.000	104.287	-4.3	109	0.00
65 T	o-Xylene	50.000	52.122	-4.2	108	0.00
66 T	Styrene	50.000	52.928	-5.9	109	0.00
67 I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	119	0.00
68 P,T	Bromoform	50.000	43.470	13.1	104	0.00
69 T	Isopropylbenzene	50.000	50.856	-1.7	110	0.00
70 P,T	1,1,2,2-Tetrachloroethane	50.000	49.274	1.5	109	0.00
71 S	4-Bromofluorobenzene	50.000	52.081	-4.2	137	0.00
72 T	1,2,3-Trichloropropane	50.000	47.945	4.1	114	0.00
73 T	trans-1,4-Dichloro-2-butene	50.000	55.202	-10.4	131	0.00
74 T	n-Propylbenzene	50.000	50.543	-1.1	110	0.00
75 T	Bromobenzene	50.000	49.821	0.4	110	0.00
76 T	2-Chlorotoluene	50.000	45.342	9.3	107	0.00
77 T	1,3,5-Trimethylbenzene	50.000	51.154	-2.3	111	0.00
78 T	4-Chlorotoluene	50.000	49.636	0.7	111	0.00
79 T	tert-Butylbenzene	50.000	50.999	-2.0	112	0.00
80 T	1,2,4-Trimethylbenzene	50.000	49.846	0.3	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
 Acq On : 17 Mar 2006 5:29 pm Operator: CGM
 Sample : CVO03B0384 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81 T	sec-Butylbenzene	50.000	50.674	-1.3	111	0.00
82 T	p-Isopropyltoluene	50.000	52.138	-4.3	112	0.00
83 T	1,3-Dichlorobenzene	50.000	49.959	0.1	112	0.00
84 T	1,4-Dichlorobenzene	50.000	50.456	-0.9	112	0.00
85 T	n-Butylbenzene	50.000	51.763	-3.5	113	0.00
86 T	1,2-Dichlorobenzene	50.000	48.718	2.6	111	0.00
87 T	1,2-Dibromo-3-chloropropane	50.000	42.663	14.7	102	0.01
88 T	1,2,4-Trichlorobenzene	50.000	52.488	-5.0	120	0.00
89 T	Hexachlorobutadiene	50.000	50.985	-2.0	119	0.00
90 T	Naphthalene	50.000	50.977	-2.0	110	0.00
91 T	1,2,3-Trichlorobenzene	50.000	51.527	-3.1	117	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D
 Acq On : 17 Mar 2006 5:29 pm
 Sample : CVO03B0384 50/200/250
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA
 MS Integration Params: 524INT.P

Vial: 2
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	115	0.00
2 T	Dichlorodifluoromethane	0.465	0.421	9.5	105	0.00
3 P,T	Chloromethane	0.581	0.518	10.8	111	0.00
4 C,T	Vinyl chloride	0.352	0.329	6.5	120	0.01
5 T	Bromomethane	0.269	0.264	1.9	112	0.00
6 T	Chloroethane	0.221	0.252	-14.0	131	0.00
7 T	Trichlorofluoromethane	0.502	0.567	-12.9	134	0.00
8 T	sec-Propyl alcohol	0.000	0.000	0.0	58	0.00
9 T	Acrolein	0.042	0.048	-14.3	119	0.00
10 T	1,1,2-Trichloro-1,2,2-trifl	0.245	0.251	-2.4	113	0.00
11 T	Acetone	0.155	0.148	4.5	109	0.00
12 C,T	1,1-Dichloroethene	0.757	0.709	6.3	107	0.00
13 T	tert-Butyl alcohol	0.027	0.027	0.0	98	0.00
14 T	Acetonitrile	0.000	0.000	0.0	134	0.00
15 T	Iodomethane	0.314	0.272	13.4	93	0.00
16 T	Methyl acetate	0.388	0.024	93.8#	7#	0.00
17 T	Methylene chloride	0.829	0.739	10.9	108	0.00
18 T	Carbon disulfide	1.076	0.954	11.3	96	0.00
19 T	Acrylonitrile	0.125	0.118	5.6	102	0.00
20 T	tert-Butyl methyl ether (MT)	0.686	0.754	-9.9	112	0.00
21 T	trans-1,2-Dichloroethene	0.727	0.723	0.6	109	0.00
22 T	Isopropyl ether (DIPE)	1.596	1.652	-3.5	110	0.00
23 P,T	1,1-Dichloroethane	0.794	0.801	-0.9	110	0.00
24 T	Vinyl acetate	0.851	0.957	-12.5	115	0.00
25 T	tert-Butyl ethyl ether (ETB)	0.951	1.106	-16.3	119	0.00
26 T	2-Butanone	0.209	0.203	2.9	102	0.00
27 T	2,2-Dichloropropane	0.345	0.421	-22.0#	121	0.01
28 T	cis-1,2-Dichloroethene	0.772	0.802	-3.9	113	0.00
29 T	tert-Butyl formate (TBF)	0.000	0.000	0.0	119	0.00
30 C,T	Chloroform	0.736	0.742	-0.8	111	0.00
31 T	Bromochloromethane	0.449	0.430	4.2	106	0.00
32 T	Tetrahydrofuran	0.125	0.001	99.2#	1#	0.07
33 T	1,1,1-Trichloroethane	0.549	0.573	-4.4	109	0.00
34 T	Cyclohexane	0.740	0.004	99.5#	1#	-0.05
35 T	tert-Amyl methyl ether (TAM)	0.722	0.788	-9.1	113	0.00
36 S	1,2-Dichloroethane-d4	0.515	0.532	-3.3	134	0.00
37 I	CHLOROBENZENE-D5	1.000	1.000	0.0	114	0.00
38 T	1,1-Dichloropropene	0.205	0.206	-0.5	107	0.00
39 T	Carbon tetrachloride	0.466	0.500	-7.3	112	0.00
40 T	1,2-Dichloroethane	0.752	0.754	-0.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D
 Acq On : 17 Mar 2006 5:29 pm
 Sample : CVO03B0384 50/200/250
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA
 MS Integration Params: 524INT.P

Vial: 2
 Operator: CGM
 Inst : TO03
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41 T	Benzene	1.494	1.502	-0.5	108	0.00
42 T	Trichloroethene	0.390	0.395	-1.3	110	0.00
43 T	Methylcyclohexane	0.642	0.006	99.1#	1#	-0.14
44 C,T	1,2-Dichloropropane	0.478	0.476	0.4	108	0.00
45 T	Bromodichloromethane	0.558	0.588	-5.4	108	0.00
46 T	Dibromomethane	0.274	0.277	-1.1	107	0.00
47 T	2-Chloroethyl vinyl ether	0.189	0.199	-5.3	114	0.01
48 T	4-Methyl-2-pentanone	0.530	0.536	-1.1	103	0.00
49 T	cis-1,3-Dichloropropene	0.576	0.625	-8.5	112	0.00
50 S	Toluene-d8	1.131	1.160	-2.6	127	0.00
51 C,T	Toluene	1.458	1.476	-1.2	109	0.00
52 T	Ethyl methacrylate	0.471	0.475	-0.8	105	0.00
53 T	trans-1,3-Dichloropropene	0.434	0.476	-9.7	110	0.00
54 T	1,1,2-Trichloroethane	0.313	0.315	-0.6	107	0.00
55 T	2-Hexanone	0.353	0.355	-0.6	103	0.00
56 T	1,3-Dichloropropane	0.586	0.607	-3.6	108	0.00
57 T	Tetrachloroethene	0.335	0.341	-1.8	110	0.00
58 T	Dibromochloromethane	0.338	0.359	-6.2	109	0.00
59 T	1,2-Dibromoethane	0.294	0.316	-7.5	110	0.00
60 T	1-Chlorohexane	0.524	0.564	-7.6	110	0.00
61 P	Chlorobenzene	0.961	0.979	-1.9	111	0.00
62 T	1,1,1,2-Tetrachloroethane	0.314	0.342	-8.9	110	0.00
63 C,T	Ethylbenzene	1.711	1.782	-4.1	110	0.00
64 T	m-Xylene & p-Xylene	1.406	1.467	-4.3	109	0.00
65 T	o-Xylene	1.456	1.518	-4.3	108	0.00
66 T	Styrene	0.999	1.057	-5.8	109	0.00
67 I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	119	0.00
68 P,T	Bromoform	0.428	0.420	1.9	104	0.00
69 T	Isopropylbenzene	2.804	2.852	-1.7	110	0.00
70 P,T	1,1,2,2-Tetrachloroethane	0.850	0.838	1.4	109	0.00
71 S	4-Bromofluorobenzene	1.129	1.176	-4.2	137	0.00
72 T	1,2,3-Trichloropropane	0.229	0.220	3.9	114	0.00
73 T	trans-1,4-Dichloro-2-butene	0.127	0.156	-22.8#	131	0.00
74 T	n-Propylbenzene	4.073	4.117	-1.1	110	0.00
75 T	Bromobenzene	0.837	0.834	0.4	110	0.00
76 T	2-Chlorotoluene	2.553	2.315	9.3	107	0.00
77 T	1,3,5-Trimethylbenzene	2.715	2.778	-2.3	111	0.00
78 T	4-Chlorotoluene	2.816	2.796	0.7	111	0.00
79 T	tert-Butylbenzene	2.187	2.231	-2.0	112	0.00
80 T	1,2,4-Trimethylbenzene	2.770	2.761	0.3	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
 Acq On : 17 Mar 2006 5:29 pm Operator: CGM
 Sample : CVO03B0384 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 T	sec-Butylbenzene	3.498	3.545	-1.3	111	0.00
82 T	p-Isopropyltoluene	2.540	2.648	-4.3	112	0.00
83 T	1,3-Dichlorobenzene	1.521	1.520	0.1	112	0.00
84 T	1,4-Dichlorobenzene	1.542	1.556	-0.9	112	0.00
85 T	n-Butylbenzene	2.955	3.059	-3.5	113	0.00
86 T	1,2-Dichlorobenzene	1.469	1.431	2.6	111	0.00
87 T	1,2-Dibromo-3-chloropropane	0.137	0.130	5.1	102	0.01
88 T	1,2,4-Trichlorobenzene	1.175	1.233	-4.9	120	0.00
89 T	Hexachlorobutadiene	0.965	0.984	-2.0	119	0.00
90 T	Naphthalene	1.974	2.013	-2.0	110	0.00
91 T	1,2,3-Trichlorobenzene	1.066	1.098	-3.0	117	0.00

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
 Acq On : 17 Mar 2006 5:29 pm Operator: CGM
 Sample : CVO03B0384 50/200/250 Inst : TO03
 Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
 MS Integration Params: 524INT.P
 Quant Time: Mar 17 18:00 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Mon Feb 06 13:18:50 2006
 Response via : Initial Calibration
 DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2696847	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2501375	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1337412	50.00	ug/l	0.00

System Monitoring Compounds

36) 1,2-Dichloroethane-d4	10.54	65	1435951	51.70	ug/l	0.00
Spiked Amount						
						Recovery = 103.40%
50) Toluene-d8	13.88	98	2901812	51.29	ug/l	0.00
Spiked Amount						
						Recovery = 102.58%
71) 4-Bromofluorobenzene	20.10	95	1573451	52.08	ug/l	0.00
Spiked Amount						
						Recovery = 104.16%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.39	85	1135895	45.31	ug/l	98
3) Chloromethane	3.82	50	1396421	44.53	ug/l	97
4) Vinyl chloride	4.02	62	888164	47.17	ug/l	100
5) Bromomethane	4.78	94	712034	49.16	ug/l	97
6) Chloroethane	4.89	64	678260	56.81	ug/l	97
7) Trichlorofluoromethane	5.33	101	1528910	56.52	ug/l	99
9) Acrolein	5.99	56	513165	227.59	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	675681	51.23	ug/l	97
11) Acetone	6.10	43	1592092	190.81	ug/l	98
12) 1,1-Dichloroethene	6.31	61	1912634	46.83	ug/l	100
13) tert-Butyl alcohol	6.44	59	363271	246.07	ug/l	81
15) Iodomethane	6.81	142	734181	43.34	ug/l	99
16) Methyl acetate	6.80	43	65063	3.11	ug/l	94
17) Methylene chloride	7.05	49	1993866	49.08	ug/l	99
18) Carbon disulfide	7.14	76	2571515	44.33	ug/l	100
19) Acrylonitrile	7.21	53	1273428	188.60	ug/l	98
20) tert-Butyl methyl ether (M	7.30	73	2033562	49.12	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	1950286	49.76	ug/l	99
22) Isopropyl ether (DIPE)	7.98	45	4454547	51.75	ug/l	99
23) 1,1-Dichloroethane	8.18	63	2159014	50.43	ug/l	99
24) Vinyl acetate	8.13	43	2581926	56.26	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	2982994	52.37	ug/l	98
26) 2-Butanone	8.82	43	2190653	194.34	ug/l	100
27) 2,2-Dichloropropane	9.08	77	1134479	60.94	ug/l	93
28) cis-1,2-Dichloroethene	9.14	61	2163477	51.97	ug/l	99
30) Chloroform	9.40	83	2000507	50.43	ug/l	100
31) Bromochloromethane	9.66	49	1158972	47.83	ug/l	98
32) Tetrahydrofuran	9.81	42	4319	0.64	ug/l #	46
33) 1,1,1-Trichloroethane	10.07	97	1545651	52.22	ug/l	97

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D

Vial: 2

Acq On : 17 Mar 2006 5:29 pm

Operator: CGM

Sample : CVO03B0384 50/200/250

Inst : TO03

Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA

Multiplr: 1.00

MS Integration Params: 524INT.P

Quant Time: Mar 17 18:00 2006

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Feb 06 13:18:50 2006

Response via : Initial Calibration

DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35) tert-Amyl methyl ether (TA	10.47	73	2125718	54.61	ug/l	93
38) 1,1-Dichloropropene	10.32	77	515362	50.30	ug/l	96
39) Carbon tetrachloride	10.50	119	1250601	53.69	ug/l	99
40) 1,2-Dichloroethane	10.69	62	1886549	50.13	ug/l	99
41) Benzene	10.76	78	3756476	50.27	ug/l	99
42) Trichloroethene	11.77	130	988440	50.70	ug/l	99
43) Methylcyclohexane	11.77	83	16173	0.50	ug/l #	1
44) 1,2-Dichloropropane	12.06	63	1191667	49.84	ug/l	97
45) Bromodichloromethane	12.46	83	1470598	52.68	ug/l	99
46) Dibromomethane	12.56	93	692673	50.54	ug/l	99
47) 2-Chloroethyl vinyl ether	12.90	63	498203	52.60	ug/l	98
48) 4-Methyl-2-pentanone	12.96	43	5364836	202.34	ug/l	100
49) cis-1,3-Dichloropropene	13.38	75	1563605	50.65	ug/l	99
51) Toluene	14.03	91	3691869	50.62	ug/l	99
52) Ethyl methacrylate	14.23	69	1188017	50.45	ug/l	98
53) trans-1,3-Dichloropropene	14.30	75	1190508	49.05	ug/l	95
54) 1,1,2-Trichloroethane	14.64	97	786790	50.28	ug/l	99
55) 2-Hexanone	14.60	43	3547676	201.08	ug/l	98
56) 1,3-Dichloropropane	15.15	76	1519179	51.80	ug/l	100
57) Tetrachloroethene	15.37	164	853369	50.85	ug/l	99
58) Dibromochloromethane	15.77	129	899022	48.93	ug/l	99
59) 1,2-Dibromoethane	16.22	107	790407	53.81	ug/l	98
60) 1-Chlorohexane	16.47	91	1410661	53.84	ug/l	98
61) Chlorobenzene	17.17	112	2448167	50.92	ug/l	99
62) 1,1,1,2-Tetrachloroethane	17.24	131	856638	54.52	ug/l	99
63) Ethylbenzene	17.24	91	4456360	52.06	ug/l	98
64) m-Xylene & p-Xylene	17.42	91	7336842	104.29	ug/l	99
65) o-Xylene	18.51	91	3796708	52.12	ug/l	99
66) Styrene	18.58	104	2644709	52.93	ug/l	100
68) Bromoform	19.50	173	561581	43.47	ug/l	99
69) Isopropylbenzene	19.41	105	3814601	50.86	ug/l	99
70) 1,1,2,2-Tetrachloroethane	19.83	83	1120239	49.27	ug/l	98
72) 1,2,3-Trichloropropane	20.23	61	293836	47.94	ug/l	93
73) trans-1,4-Dichloro-2-buten	20.38	53	209224	55.20	ug/l	96
74) n-Propylbenzene	20.50	91	5506379	50.54	ug/l	100
75) Bromobenzene	20.67	156	1115607	49.82	ug/l	100
76) 2-Chlorotoluene	21.03	91	3095826	45.34	ug/l	100
77) 1,3,5-Trimethylbenzene	20.94	105	3715098	51.15	ug/l	100
78) 4-Chlorotoluene	21.15	91	3739158	49.64	ug/l	99
79) tert-Butylbenzene	21.97	119	2983216	51.00	ug/l	99
80) 1,2,4-Trimethylbenzene	22.09	105	3692808	49.85	ug/l	99

(#)= qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D

Vial: 2

Acq On : 17 Mar 2006 5:29 pm

Operator: CGM

Sample : CVO03B0384 50/200/250

Inst : TO03

Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA

Multiplr: 1.00

MS Integration Params: 524INT.P

Quant Time: Mar 17 18:00 2006

Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Feb 06 13:18:50 2006

Response via : Initial Calibration

DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) sec-Butylbenzene	22.61	105	4741731	50.67	ug/l	100
82) p-Isopropyltoluene	22.99	119	3541740	52.14	ug/l	100
83) 1,3-Dichlorobenzene	23.27	146	2032512	49.96	ug/l	100
84) 1,4-Dichlorobenzene	23.53	146	2081504	50.46	ug/l	100
85) n-Butylbenzene	24.00	91	4091378	51.76	ug/l	99
86) 1,2-Dichlorobenzene	24.37	146	1913726	48.72	ug/l	100
87) 1,2-Dibromo-3-chloropropan	25.95	157	174454	42.66	ug/l	99
88) 1,2,4-Trichlorobenzene	27.75	180	1649241	52.49	ug/l	99
89) Hexachlorobutadiene	28.02	225	1316115	50.98	ug/l	98
90) Naphthalene	28.30	128	2691716	50.98	ug/l	100
91) 1,2,3-Trichlorobenzene	28.80	180	1468844	51.53	ug/l	99

(#) = qualifier out of range (m) = manual integration

RCB298.D VO03B03.M Fri Mar 17 18:00:24 2006

Page 3

2088

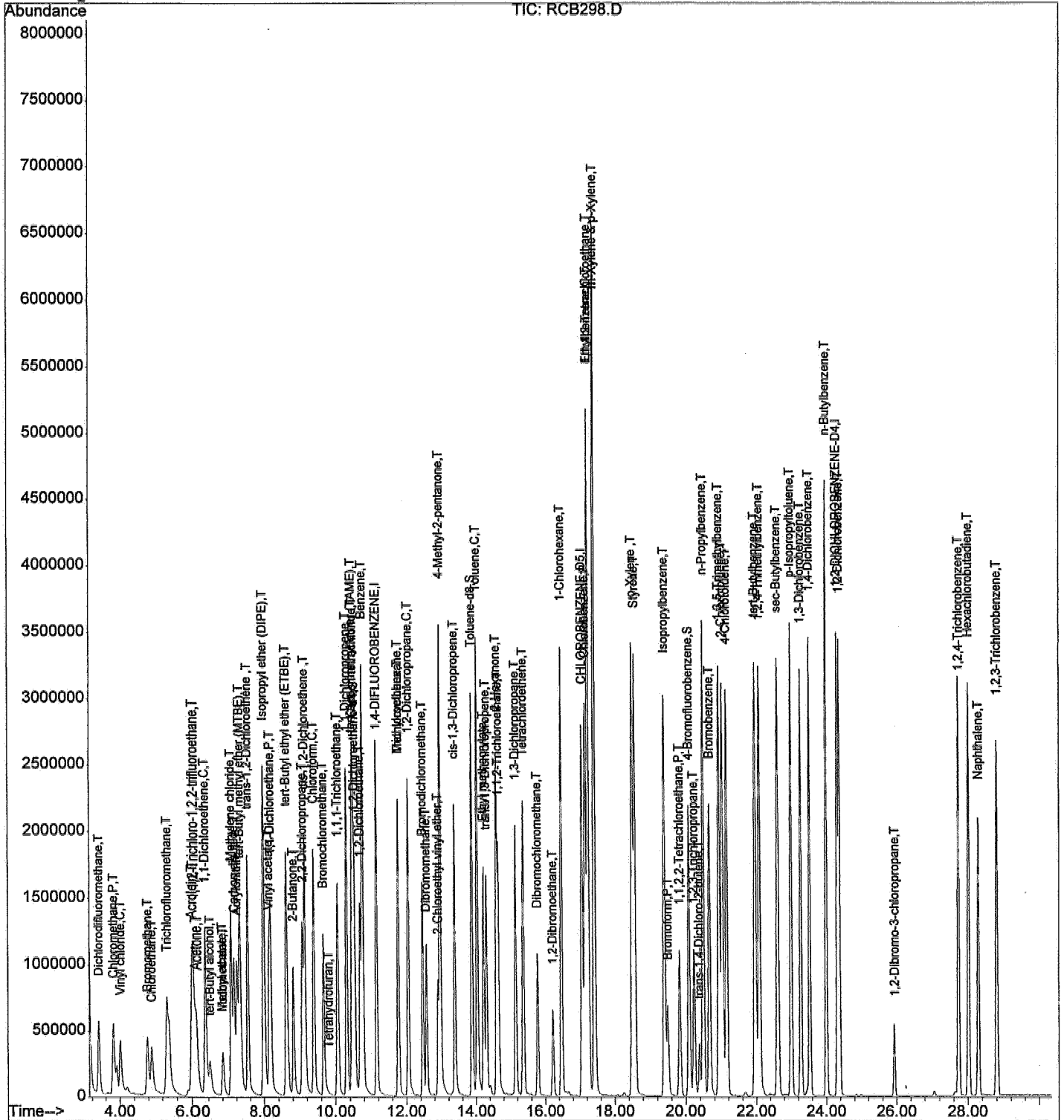
Quantitation Report

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D
Acq On : 17 Mar 2006 5:29 pm
Sample : CVO03B0384 50/200/250
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA
MS Integration Params: 524INT.P
Quant Time: Mar 17 18:00 2006

Vial: 2
Operator: CGM
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP EMAX-8260 Rev.No. 2 EMAX-524.2 Rev.No. 3 EMAX-CLP-VOA EMAX 624 Rev.No. 1

Start Date: 3/17/06 5-ml Purge 25-ml Purge

Book # A03 -025

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix		Notes
					pH-W	S	
01	RCB247	BFB03C25 ✓	2 µL				16:52
02	298	CV003B0384 ✓	2 µL				
03	299	constant ↓ 85	↓				
04	300	CV003C25L ✓	1-2 µL	50			
05	301	↓ C ✓	↓	50			
06	302	VO03C26L ✓	↓	1			
07	303	↓ C ✓	↓	1			
08	304	VO03C26B ✓	5 µL	1			
09	305	↓ Q	↓	1			
10	306	VO03C25B ✓	100 µL	50			
11	307	VMC004SB	100 µL	50			
12	308	06C081-12	5 µL	1		C2	
13	309	↓ 11	↓	1			
14	310	06C119-01	↓	1			
15	311	↓ 02	↓	1			
16	312	06C127-09	↓	1			
17	313	↓ 10	↓	1			
18	314	Dimz					
19	315	06C101-09T	100	71			3.59/5ml
20	316	VO03C25X	1-2 µL				
21	317	↓ Y	↓				
22							
23							
24							
25							C6M 3/17/06

BATCH CV003B0384

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/3/06
ICAL ID	VO03B03
STANDARDS	
NAME	ID
DOC	SMC-10-22-3
DOC	47-2
DOC	44-1
BFB	70-3
IS/SURR.	43-3
LCS	44-3
LCS	42-3
LCS	44-2
SOLVENT	ID
METHANOL	
DATA FILE	06C17
Electronic Data Archival	
Location	Date
HPCHEM_VOA/003 pages 6-31	C6M 3/20/06

Comments:

Analyzed By: C6M

Date Disposed:

Disposed By:

ANALYSIS LOG FOR VOLATILES

SOP EMAX-8260 Rev.No. 2 EMAX-524.2 Rev.No. 3 EMAX-CLP-VOA EMAX 624 Rev.No. 1
 Start Date: 2/3/06 5-ml Purge 25-ml Purge

Book # A03 -024

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/3/06
ICAL ID	V003B03
STANDARDS	
NAME	ID
DCC	SMIC - 10 - 45-2 28-3
DCC	22-3 42-2
DCC	44-1
BFB	70-3
IS/SURR.	45-3
LCS	25-3 24-1
LCS	44-3 42-3
LCS	41-2
SOLVENT	15 SMIC-10-45-2 ID
METHANOL SS	43-1 } 250ppm
DATA FILE	06803
Electronic Data Archival	
Location	
Date	
HPCHEM_VOA/T003	

Comments:

* Not valid for Acrolein

Analyzed By: CEM

Date Disposed:

Disposed By:

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix		Notes
					pH	S	
01	RBB03	BFB03B03	2 mL				2750 3000 3500
02	054	V003B031	.04 2 .08 mL				2 8 10 ppb
03	055	2	.1 5 .2 mL				5 70 25
04	056	3	.2 1 .4 mL				10 40 50
05	057	4	.4 2 .8 mL				70 80 100
06	058	5	1 5 2 mL				50 200 250
07	059	6	1.6 8 3.2 mL				80 320 400
08	060	7	2 10 4 mL				100 400 500
09	061	8	4 20 8 mL				200 800 1000
10	062	9	6 30 12 mL				300 1200 1500
11	063	15/SS check					
12	064	V003B03B					
13	065	V003B031 *	1 5 4 mL				CEM 2/3/06
14	066	2	↓				
15	067	3	5 mL				
16	068	4	↓				
17	069	Rinse					
18							
19							
20							
21							
22							
23							
24							
25							CEM 2/3/06

BATCH V003B035

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND
TRAP

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C119

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Two (2) water samples were received on 03/14/06 for Total Petroleum Hydrocarbons by purge and trap analysis by Method 5030B/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. The water samples were preserved.

2. Calibration

Initial calibration was seven points. %RSDs were within 20%. Continuing calibrations were carried out every 12 hours and at the end of the analysis sequence. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No sample was spiked.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Results were quantified from C6 to C10 using GRO (C6-C10) calibration factor.

Discrete peak(s) found in sample C119-01 was not reported.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : ENSR
Project : UPGRADE INVESTIGATION, TRONOX

SDG NO. : 06C119
Instrument ID : GCT039

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	WATER		Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis Date/Time	Extraction Date/Time					
MBLK1W	VA39C08B	1	NA	03/16/0614:33	03/16/0614:33	EC16003A	EC16002A	VA39C08	Method Blank	
LCSTW	VA39C08L	1	NA	03/16/0615:12	03/16/0615:12	EC16004A	EC16002A	VA39C08	Lab Control Sample (LCS)	
LCD1W	VA39C08C	1	NA	03/16/0615:50	03/16/0615:50	EC16005A	EC16002A	VA39C08	LCS Duplicate	
TR-10A	C119-01	1	NA	03/16/0622:52	03/16/0622:52	EC16016A	EC16014A	VA39C08	Field Sample	
PUMP BLANK	C119-02	1	NA	03/16/0623:30	03/16/0623:30	EC16017A	EC16014A	VA39C08	Field Sample	

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

=====
Client : ENSR Date Collected: 03/13/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/14/06
Batch No. : 06C119 Date Extracted: 03/16/06 22:52
Sample ID: TR-10A Date Analyzed: 03/16/06 22:52
Lab Samp ID: C119-01 Dilution Factor: 1
Lab File ID: EC16016A Matrix : WATER
Ext Btch ID: VA39C08 % Moisture : NA
Calib. Ref.: EC16014A Instrument ID : GCT039
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO **	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	91	60-140

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

** : Discrete peak(s) was not reported

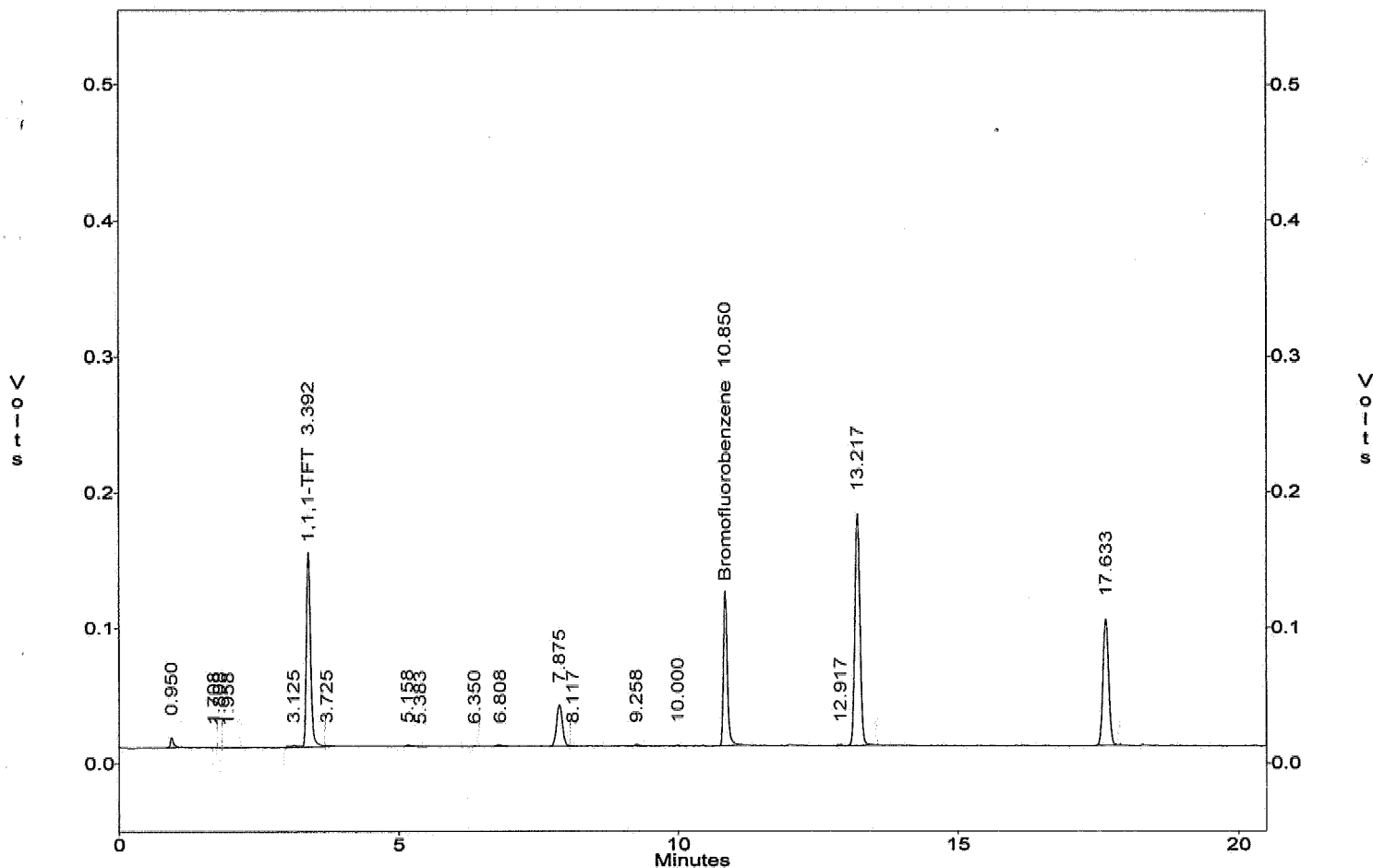
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.016
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : 06C119-01 5.0ML W
 Acquired : Mar 16, 2006 22:52:41
 Printed : Mar 16, 2006 23:13:13
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
6	1,1,1-TFT	3.392	760733.0	21531.8	35.33
16	Bromofluorobenzene	10.850	547482.0	15026.0	36.44
G1	GASOLINE (TOTAL)		2007412.0	15352.4	130.76
G2	GRO (C6-C10)		286163.0	12418.6	23.04
G3	GRO (2MP-124TMB)		286163.0	12455.2	22.98
G4	GRO (C5-C12)		2007412.0	15149.8	132.50

c:\ezchrom\chrom\ec16\Ec16.016 -- Channel A



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                               Date Collected: 03/13/06
Project     : UPGRADIENT INVESTIGATION, TRONOX  Date Received: 03/14/06
Batch No.   : 06C119                             Date Extracted: 03/16/06 23:30
Sample ID   : PUMP BLANK                         Date Analyzed: 03/16/06 23:30
Lab Samp ID: C119-02                             Dilution Factor: 1
Lab File ID: EC16017A                            Matrix          : WATER
Ext Btch ID: VA39C08                             % Moisture     : NA
Calib. Ref.: EC16014A                           Instrument ID   : GCT039
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	91	60-140

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

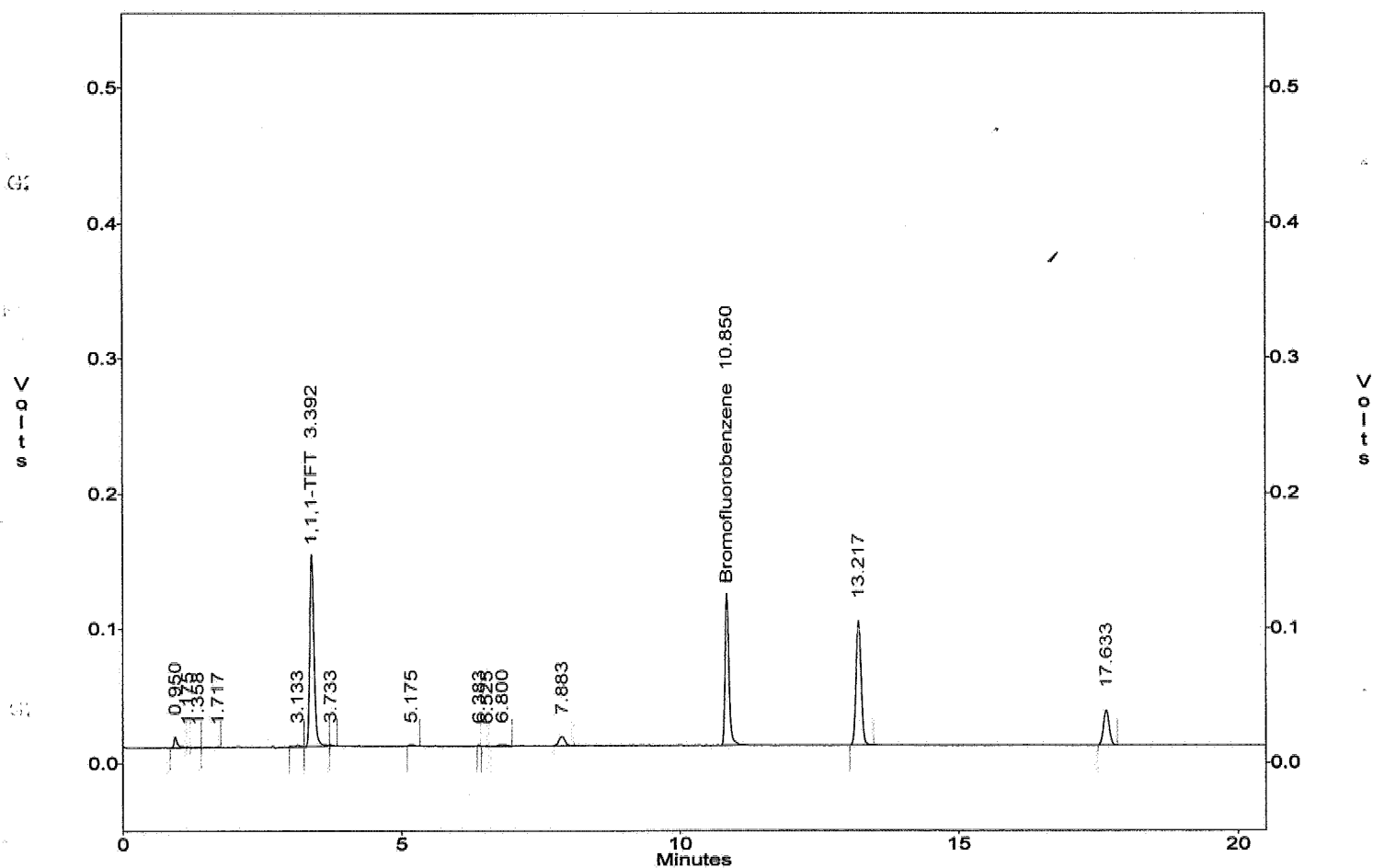
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.017
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : 06C119-02 5.0ML W
Acquired : Mar 16, 2006 23:30:55
Printed : Mar 16, 2006 23:51:27
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
6	1,1,1-TFT	3.392	757063.0	21531.8	35.16
13	Bromofluorobenzene	10.850	546846.0	15026.0	36.39
G1	GASOLINE (TOTAL)		859423.0	15352.4	55.98
G2	GRO (C6-C10)		95328.0	12418.6	7.68
G3	GRO (2MP-124TMB)		95328.0	12455.2	7.65
G4	GRO (C5-C12)		859423.0	15149.8	56.73

c:\ezchrom\chrom\ec16\Ec16.017 -- Channel A



QC SUMMARIES

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                               Date Collected: NA
Project     : UPGRADE INVESTIGATION, TRONOX    Date Received: 03/16/06
Batch No.   : 06C119                            Date Extracted: 03/16/06 14:33
Sample ID   : MBLK1W                            Date Analyzed: 03/16/06 14:33
Lab Samp ID: VA39C08B                          Dilution Factor: 1
Lab File ID: EC16003A                          Matrix          : WATER
Ext Btch ID: VA39C08                            % Moisture      : NA
Calib. Ref.: EC16002A                          Instrument ID   : GCT039
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	95	70-130

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD 5030B/8015B

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: VA39C08B VA39C08L VA39C08C
LAB FILE ID: EC16003A EC16004A EC16005A
DATE EXTRACTED: 03/16/0614:33 03/16/0615:12 03/16/0615:50 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0614:33 03/16/0615:12 03/16/0615:50 DATE RECEIVED: 03/16/06
PREP. BATCH: VA39C08 VA39C08 VA39C08
CALIB. REF: EC16002A EC16002A EC16002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
GRO	ND	.5	.521	104	.5	.537	107	3	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.04	.0436	109	.04	.0438	109	70-130

QC DATA

METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

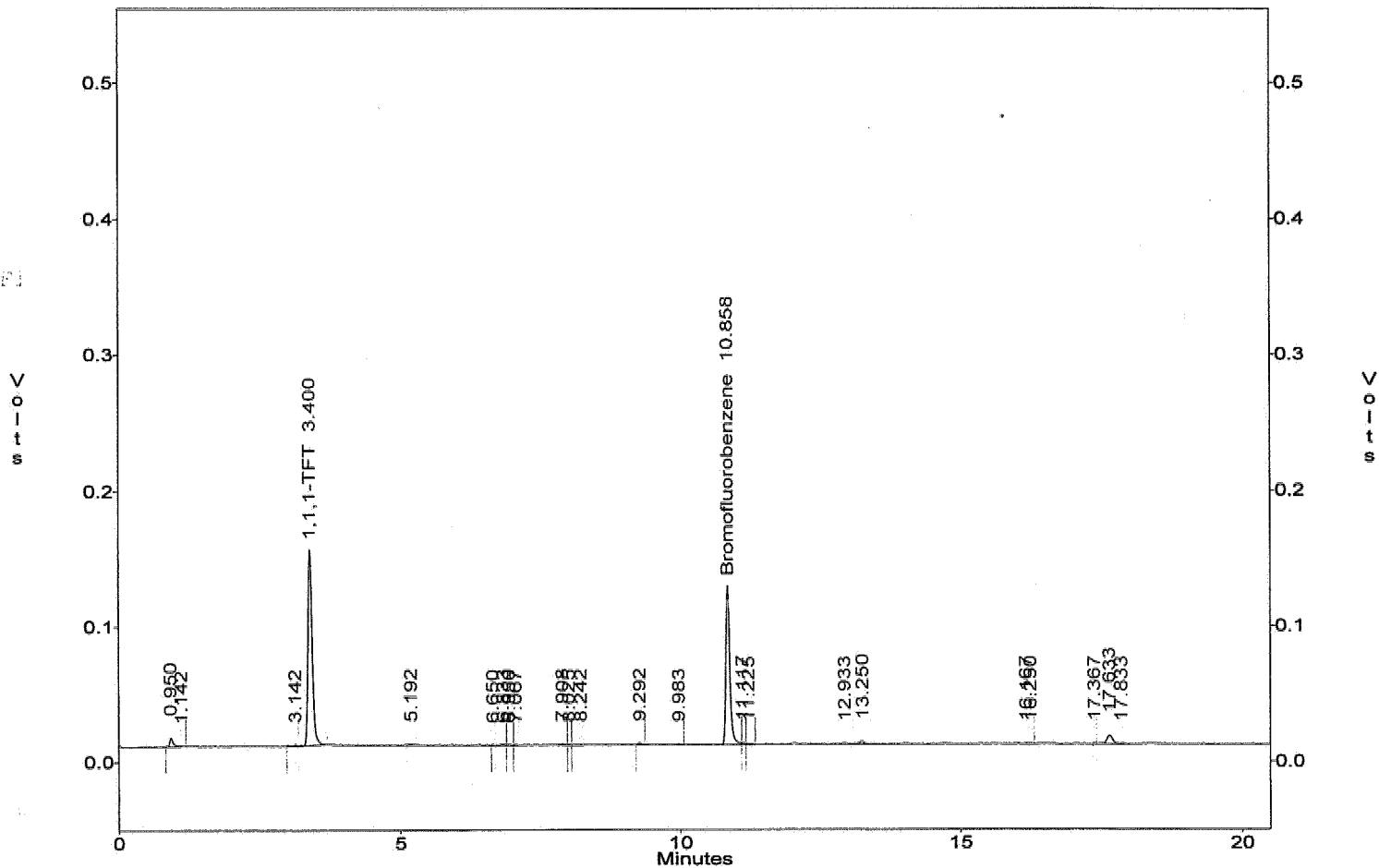
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 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : VA39C08B 5.0ML W
 Acquired : Mar 16, 2006 14:33:52
 Printed : Mar 16, 2006 14:54:23
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
4	1,1,1-TFT	3.400	774053.0	21531.8	35.95
15	Bromofluorobenzene	10.858	572041.0	15026.0	38.07
G1	GASOLINE (TOTAL)		128901.0	15352.4	8.40
G2	GRO (C6-C10)		59249.0	12418.6	4.77
G3	GRO (2MP-124TMB)		59249.0	12455.2	4.76
G4	GRO (C5-C12)		128901.0	15149.8	8.51

Fi

c:\ezchrom\chrom\ec16\Ec16.003 -- Channel A



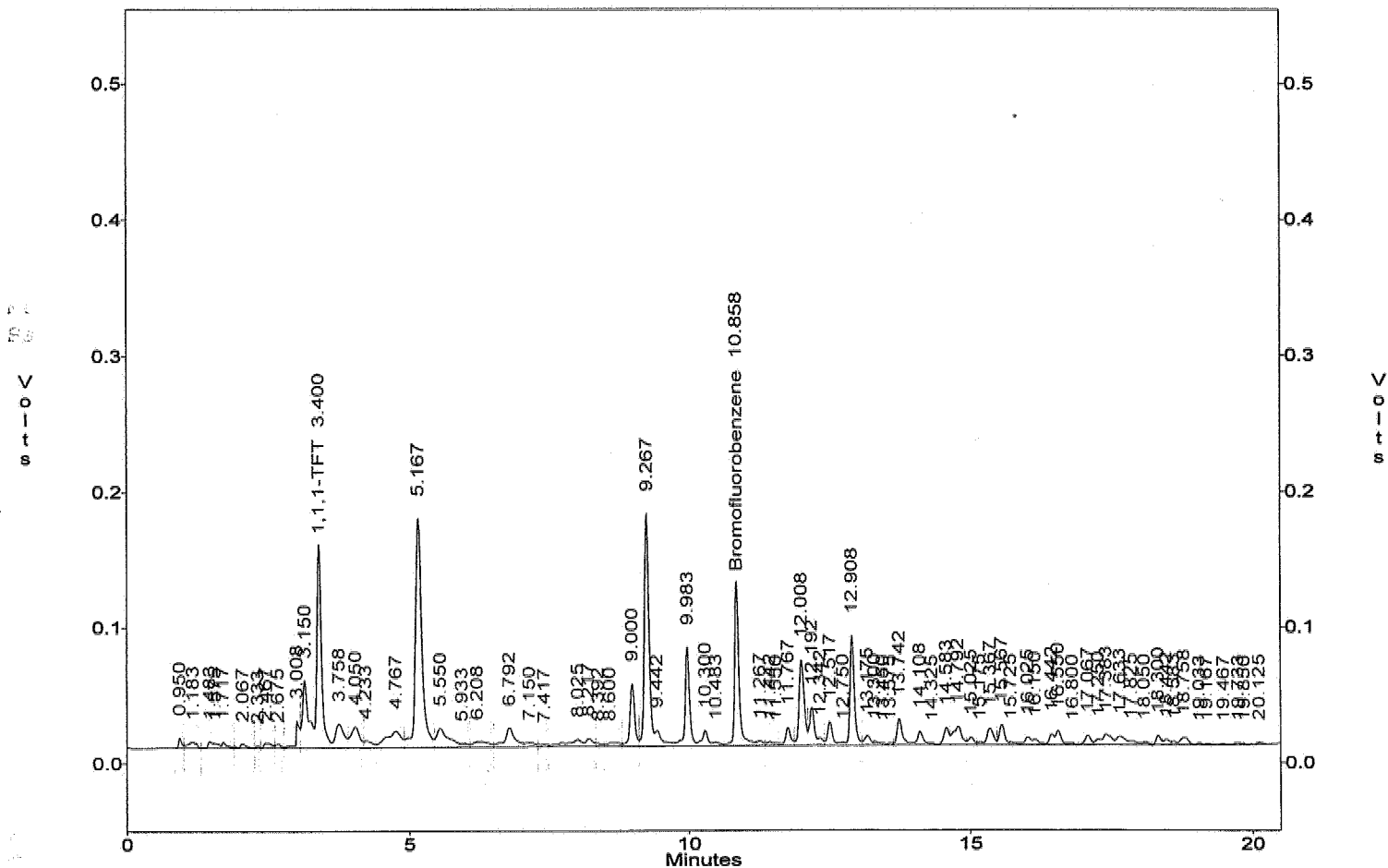
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.004
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : VA39C08L 5.0ML W
 Acquired : Mar 16, 2006 15:12:22
 Printed : Mar 16, 2006 15:32:54
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.400	878170.0	21531.8	40.78
34	Bromofluorobenzene	10.858	655458.0	15026.0	43.62
G1	GASOLINE (TOTAL)		8001482.0	15352.4	521.19
G2	GRO (C6-C10)		6469078.0	12418.6	520.92
G3	GRO (2MP-124TMB)		6520466.0	12455.2	523.51
G4	GRO (C5-C12)		7953796.0	15149.8	525.01

c:\ezchrom\chrom\ec16\Ec16.004 -- Channel A



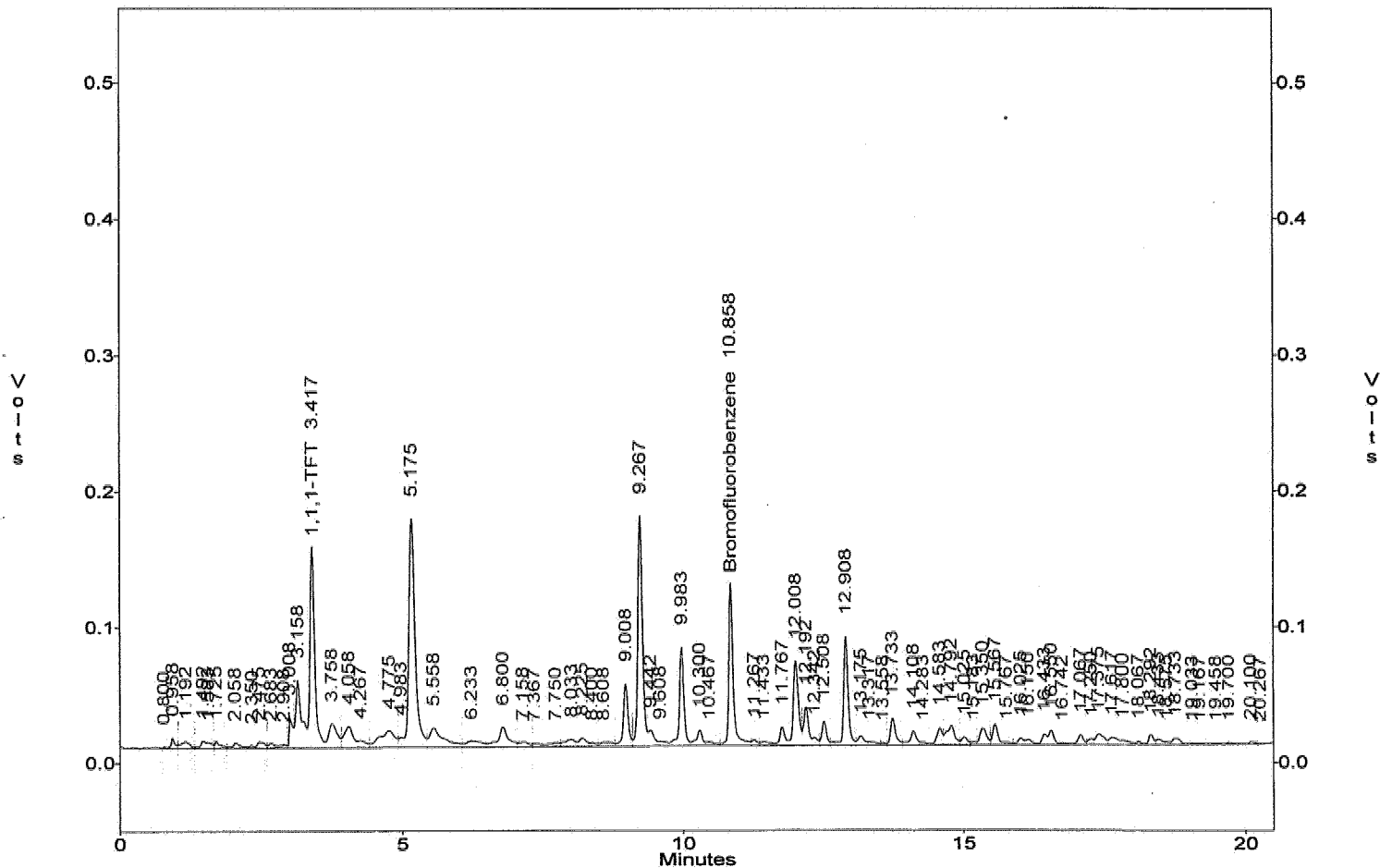
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.005
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : VA39C08C 5.0ML W
 Acquired : Mar 16, 2006 15:50:53
 Printed : Mar 16, 2006 16:11:25
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.417	880766.0	21531.8	40.91
38	Bromofluorobenzene	10.858	658123.0	15026.0	43.80
G1	GASOLINE (TOTAL)		8238055.0	15352.4	536.60
G2	GRO (C6-C10)		6673963.0	12418.6	537.42
G3	GRO (2MP-124TMB)		6735314.0	12455.2	540.76
G4	GRO (C5-C12)		8185415.0	15149.8	540.30

c:\ezchrom\chrom\ec16\Ec16.005 -- Channel A



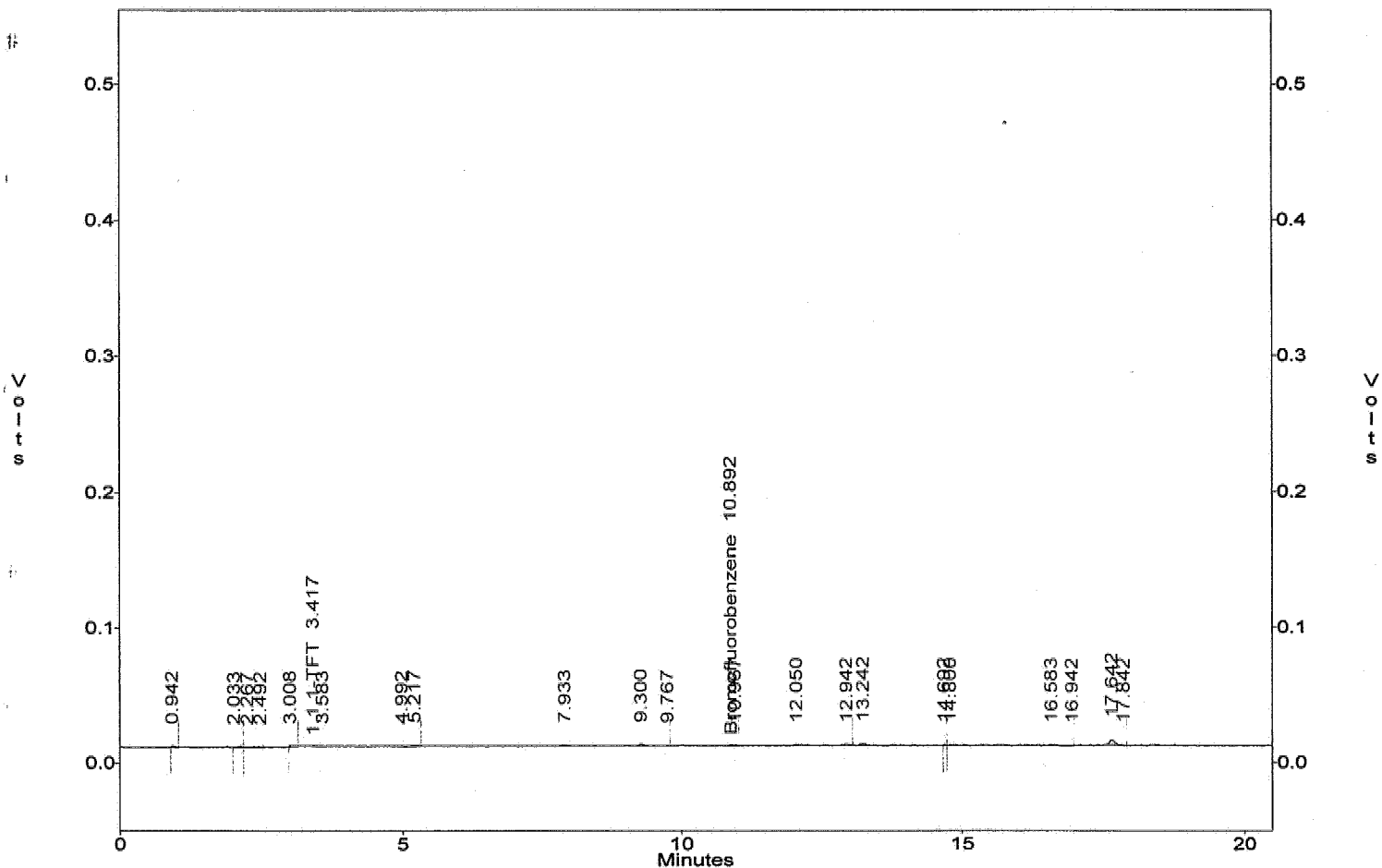
METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.001
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : IB39C774
 Acquired : Mar 16, 2006 13:16:58
 Printed : Mar 16, 2006 13:37:30
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
6	1,1,1-TFT	3.417	2850.0	21531.8	0.13
13	Bromofluorobenzene	10.892	3625.0	15026.0	0.24
G1	GASOLINE (TOTAL)		90080.0	15352.4	5.87
G2	GRO (C6-C10)		47780.0	12418.6	3.85
G3	GRO (2MP-124TMB)		47780.0	12455.2	3.84
G4	GRO (C5-C12)		90080.0	15149.8	5.95

c:\ezchrom\chrom\ec16\Ec16.001 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
50308/M8015

Lab Name : EMAX Inc
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 LFID & Datetime: EC03019A 03/03/06 23:46 ✓
 LFID & Datetime: EC03020A 03/04/06 00:24 ✓
 LFID & Datetime: EC03021A 03/04/06 01:02 ✓
 LFID & Datetime: EC03022A 03/04/06 01:40 ✓
 LFID & Datetime: EC03023A 03/04/06 02:18 ✓
 LFID & Datetime: EC03024A 03/04/06 02:57 ✓
 LFID & Datetime: EC03025A 03/04/06 03:35 ✓
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS						(AREA)/UNIT		MEAN	%RSD
		1.00X	2.50X	5.00X	25.00X	50.00X	100.00X	150.00X			
Gasoline(TOTAL)	20.00	✓ 12417	✓ 13454	✓ 15665	✓ 15778	✓ 16779	✓ 16708	✓ 16666	✓ 15352.4	11.3	✓
GRO(C6-C10)	20.00	✓ 9660	✓ 10361	✓ 13007	✓ 12779	✓ 13750	✓ 13695	✓ 13678	✓ 12418.6	13.7	✓
GRO(2MP-124TMB)	20.00	✓ 9660	✓ 10361	✓ 13148	✓ 12809	✓ 13777	✓ 13723	✓ 13709	✓ 12455.2	13.8	✓
GRO(C5-C12)	20.00	✓ 11591	✓ 13210	✓ 15575	✓ 15708	✓ 16713	✓ 16645	✓ 16607	✓ 15149.8	13.1	✓
SURROGATE	X	1.00X	2.00X	3.00X	4.00X	5.00X	7.50X	10.00X	MEAN	%RSD	
Bromofluorobenzene	10.00	✓ 12063	✓ 13106	✓ 13108	✓ 14879	✓ 17078	✓ 17312	✓ 17635	✓ 15026.0	15.5	✓
1,1,1-Trifluorotoluene	10.00	✓ 17166	✓ 19380	✓ 19227	✓ 21362	✓ 23275	✓ 24612	✓ 25700	✓ 21531.8	14.6	✓

VG39C03.MET

AA
03/06/06

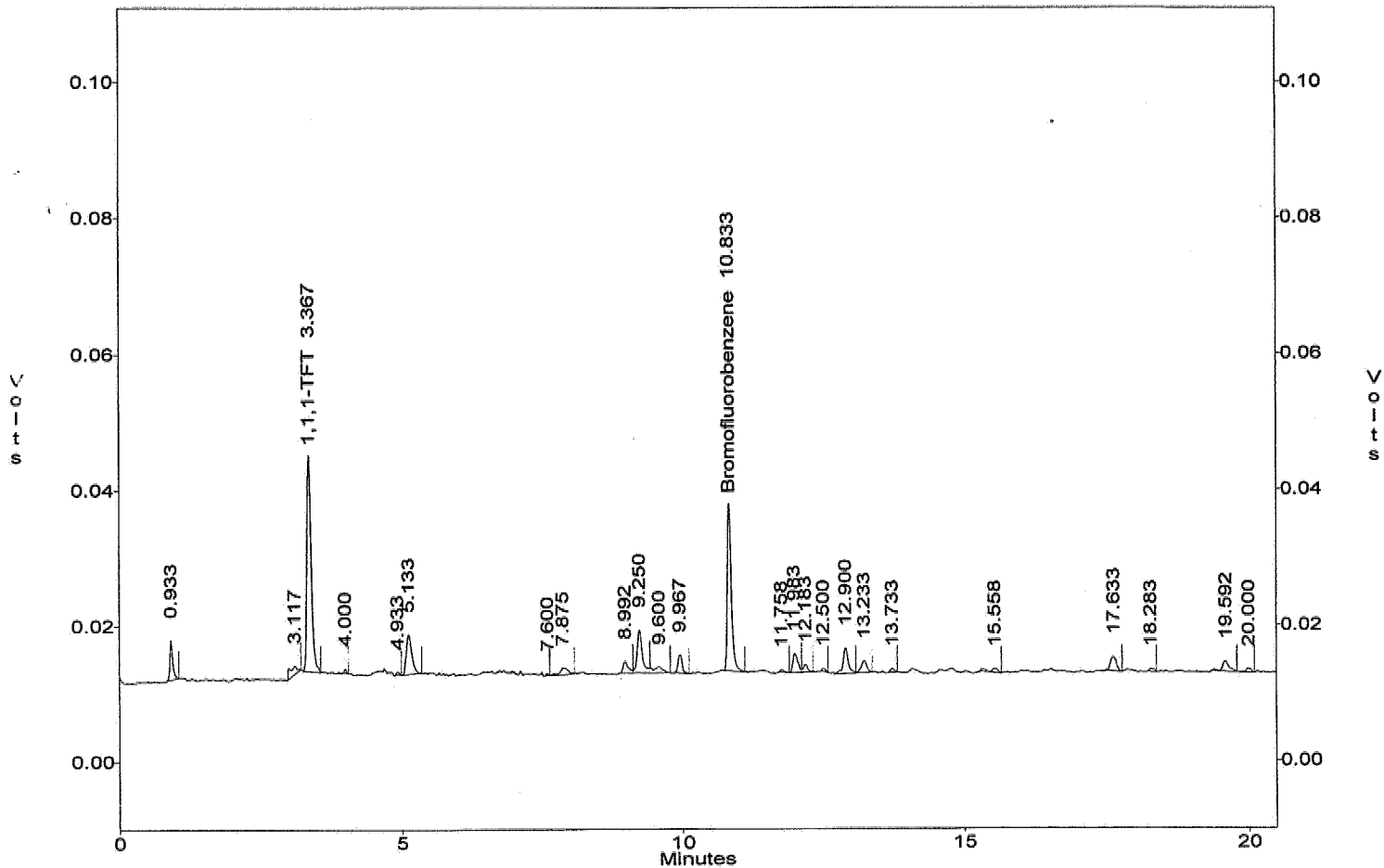
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.019 ✓
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-01 20/10
 Acquired : Mar 03, 2006 23:46:19 ✓
 Printed : Mar 06, 2006 12:14:18
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
3	1,1,1-TFT	3.367	171660.0	21531.8 ✓	10.00
13	Bromofluorobenzene	10.833	120632.0	15026.0 ✓	10.00
G1	GASOLINE (TOTAL)		248347.0	15352.4 ✓	20.00
G2	GRO (C6-C10)		193196.0	12418.6 ✓	20.00
G3	GRO (2MP-124TMB)		193196.0	12455.2 ✓	20.00
G4	GRO (C5-C12)		231819.0	15149.8 ✓	20.00

c:\ezchrom\chrom\ec03\ec03.019 -- Channel A



Ret
03/06/06
4018

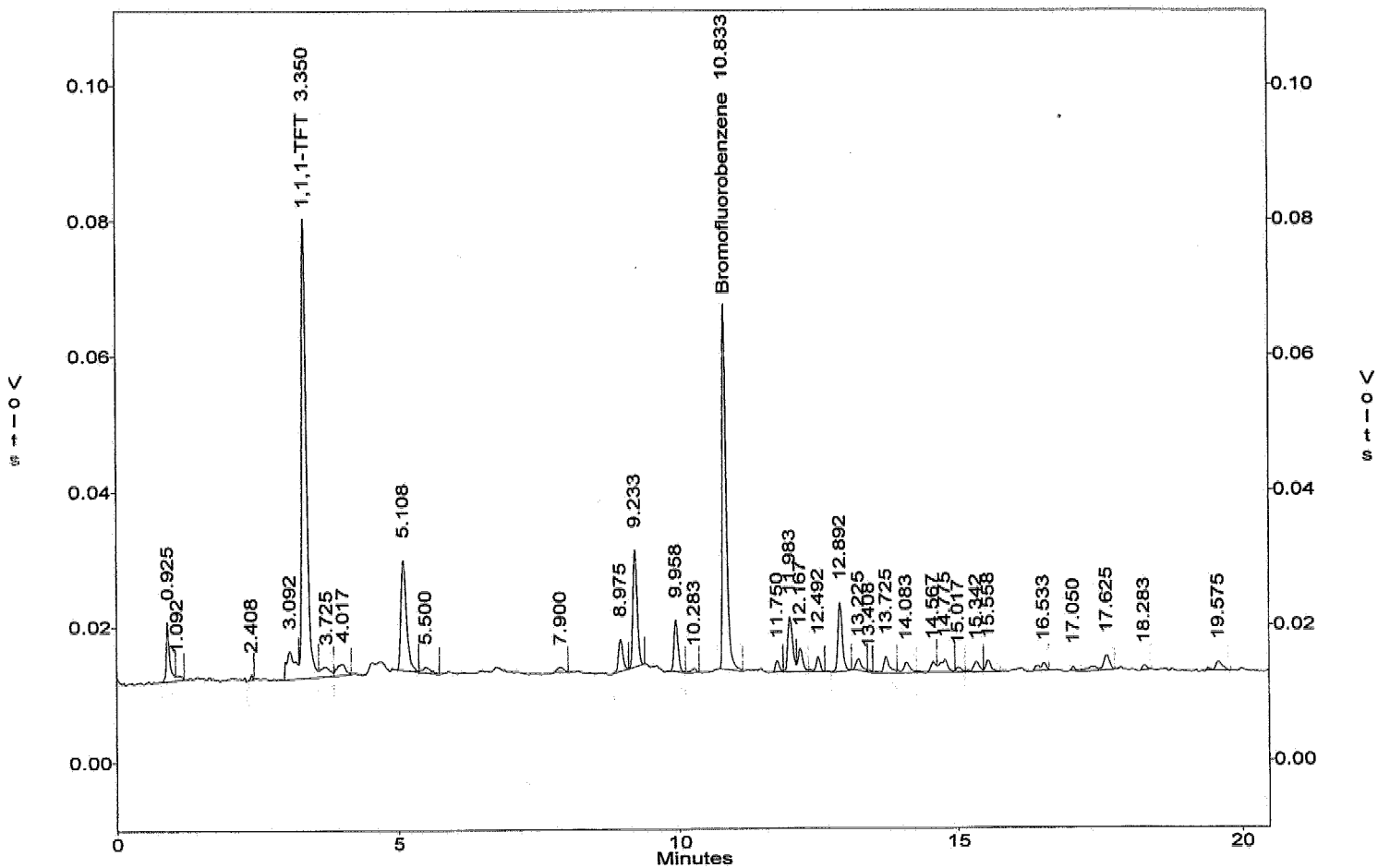
METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.020 ✓
 Method : c:\ezchrom\methods\vg39c03.met ✓
 Sample ID : VG39C03-02 50/20
 Acquired : Mar 04, 2006 00:24:42 ✓
 Printed : Mar 06, 2006 12:14:41
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
5	1,1,1-TFT	3.350	387603.0	21531.8	20.00
15	Bromofluorobenzene	10.833	262122.0	15026.0	20.00
G1	GASOLINE (TOTAL)		672683.0	15352.4	50.00
G2	GRO (C6-C10)		518064.0	12418.6	50.00
G3	GRO (2MP-124TMB)		518064.0	12455.2	50.00
G4	GRO (C5-C12)		660488.0	15149.8	50.00

c:\ezchrom\chrom\ec03\ec03.020 -- Channel A



RA
 03/06/06
 4019

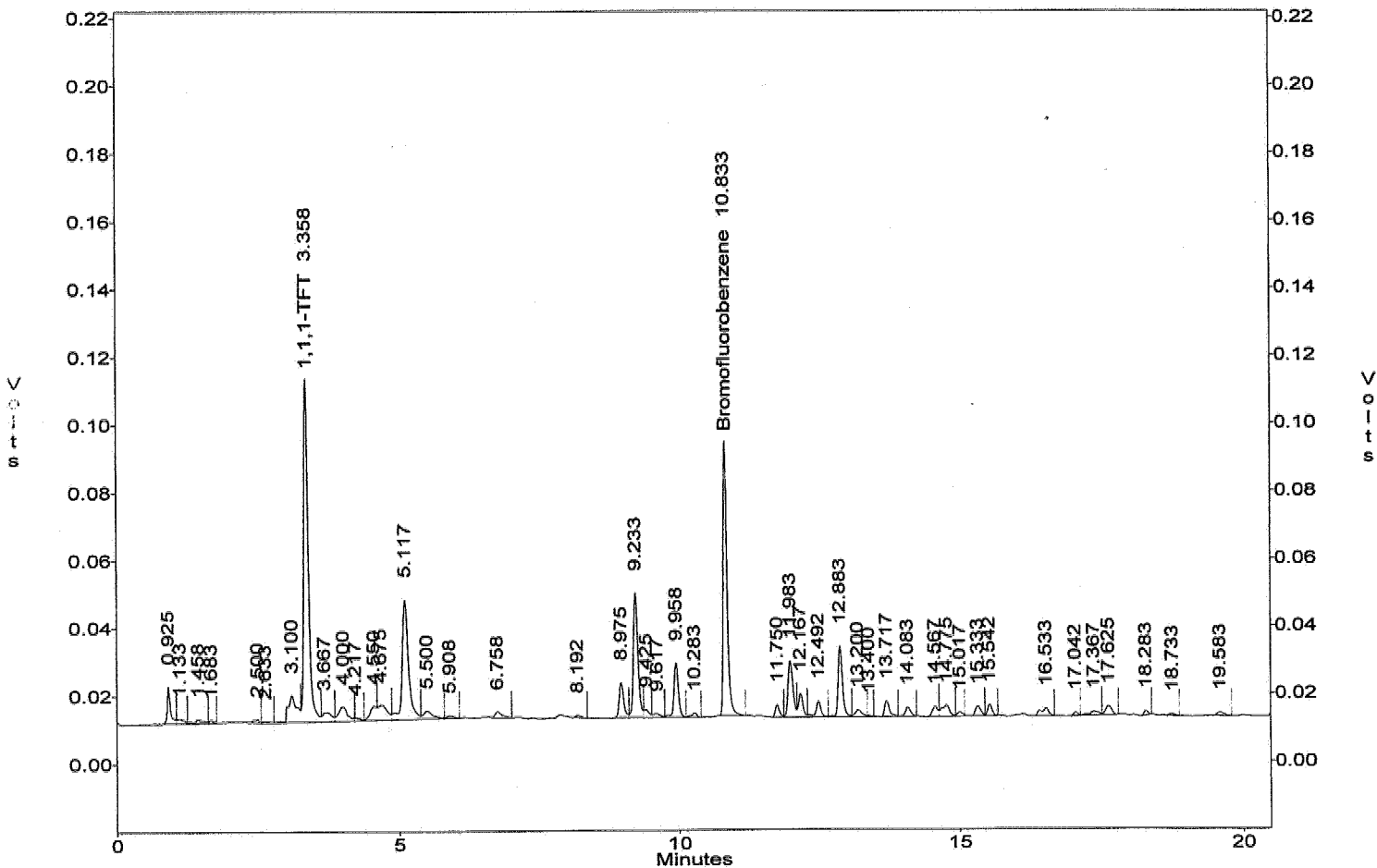
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.021
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-03 100/30
 Acquired : Mar 04, 2006 01:02:51
 Printed : Mar 06, 2006 12:17:19
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
8	1,1,1-TFT	3.358	576813.0	21531.8	30.00
25	Bromofluorobenzene	10.833	393242.0	15026.0	30.00
G1	GASOLINE (TOTAL)		1566460.0	15352.4	100.00
G2	GRO (C6-C10)		1300710.0	12418.6	100.00
G3	GRO (2MP-124TMB)		1314789.0	12455.2	100.00
G4	GRO (C5-C12)		1557478.0	15149.8	100.00

c:\ezchrom\chrom\ec03\ec03.021 -- Channel A



AS
03/06/06
4020

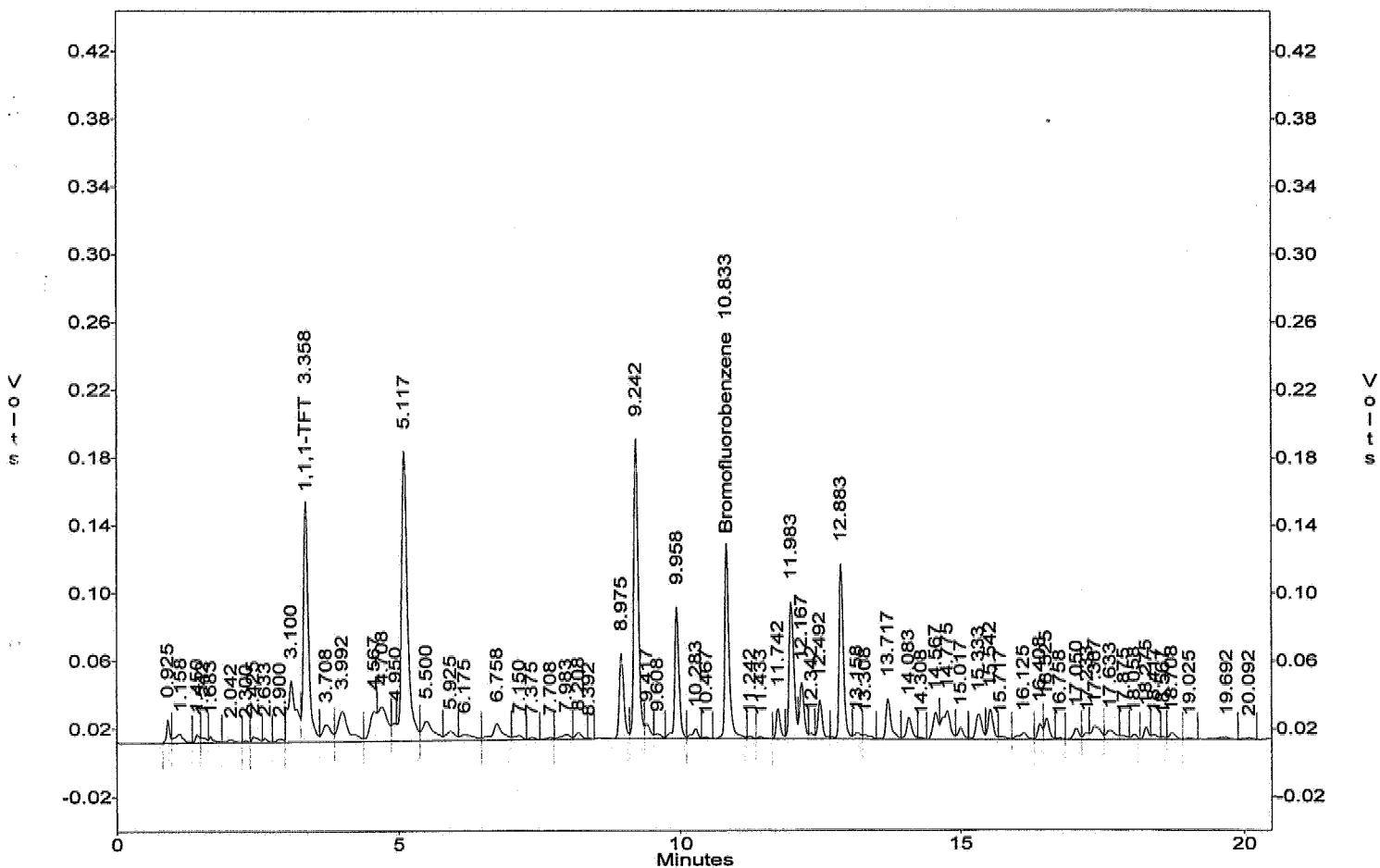
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.022
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-04 500/40
 Acquired : Mar 04, 2006 01:40:58
 Printed : Mar 06, 2006 12:18:47
 User : SERGIO

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.358	854497.0	21531.8	40.00
36	Bromofluorobenzene	10.833	595155.0	15026.0	40.00
G1	GASOLINE (TOTAL)		7888862.0	15352.4	500.00
G2	GRO (C6-C10)		6389639.0	12418.6	500.00
G3	GRO (2MP-124TMB)		6404459.0	12455.2	500.00
G4	GRO (C5-C12)		7853986.0	15149.8	500.00

c:\ezchrom\chrom\ec03\ec03.022 -- Channel A



RA
03/06/06
4021

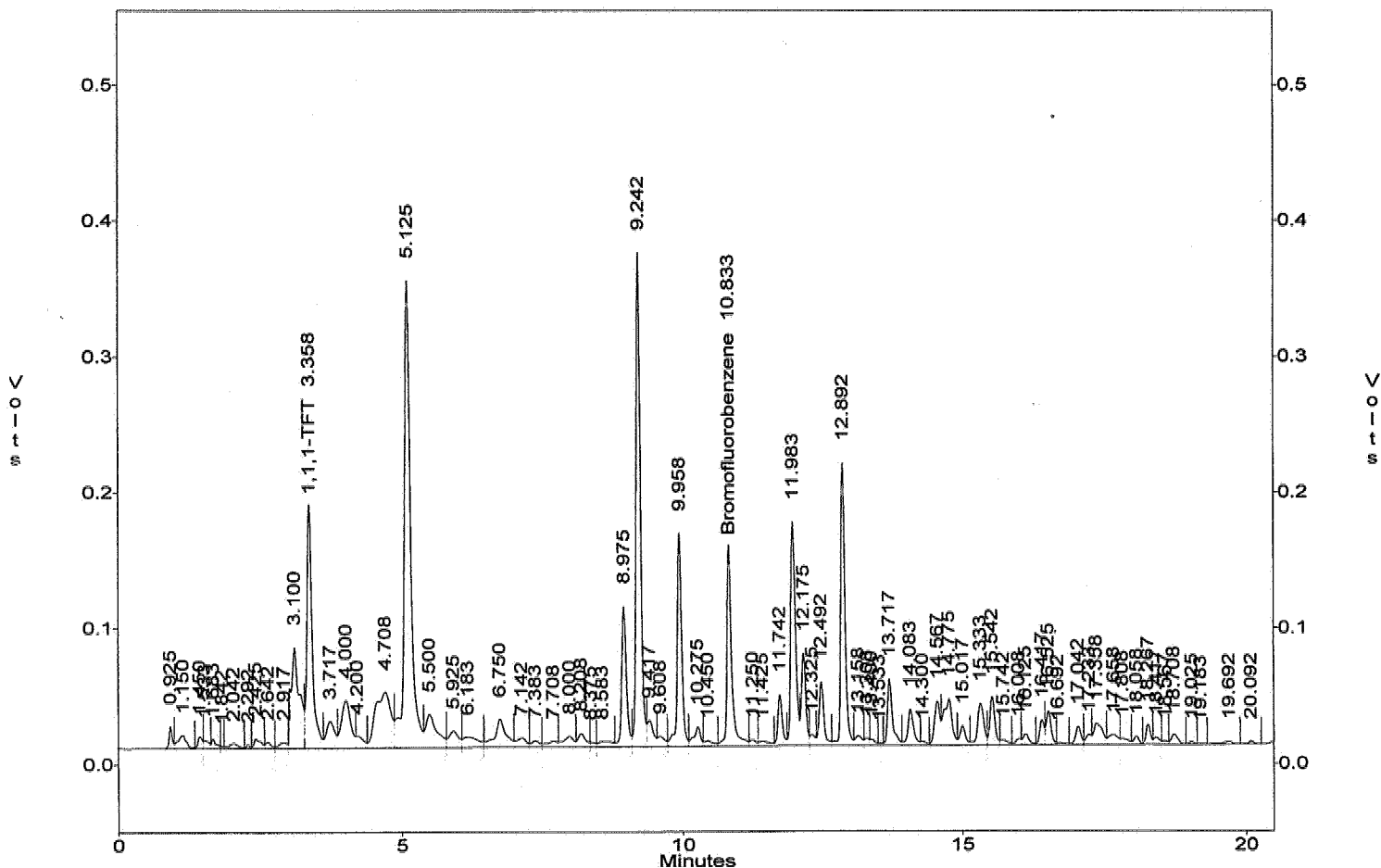
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.023
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-05 1000/50
Acquired : Mar 04, 2006 02:18:59
Printed : Mar 06, 2006 12:20:22
User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.358	1163757.0	21531.8	50.00
37	Bromofluorobenzene	10.833	853904.0	15026.0	50.00
G1	GASOLINE (TOTAL)		16778924.0	15352.4	1000.00
G2	GRO (C6-C10)		13749773.0	12418.6	1000.00
G3	GRO (2MP-124TMB)		13776743.0	12455.2	1000.00
G4	GRO (C5-C12)		16712874.0	15149.8	1000.00

c:\ezchrom\chrom\ec03\ec03.023 -- Channel A



Rt
03/06/06

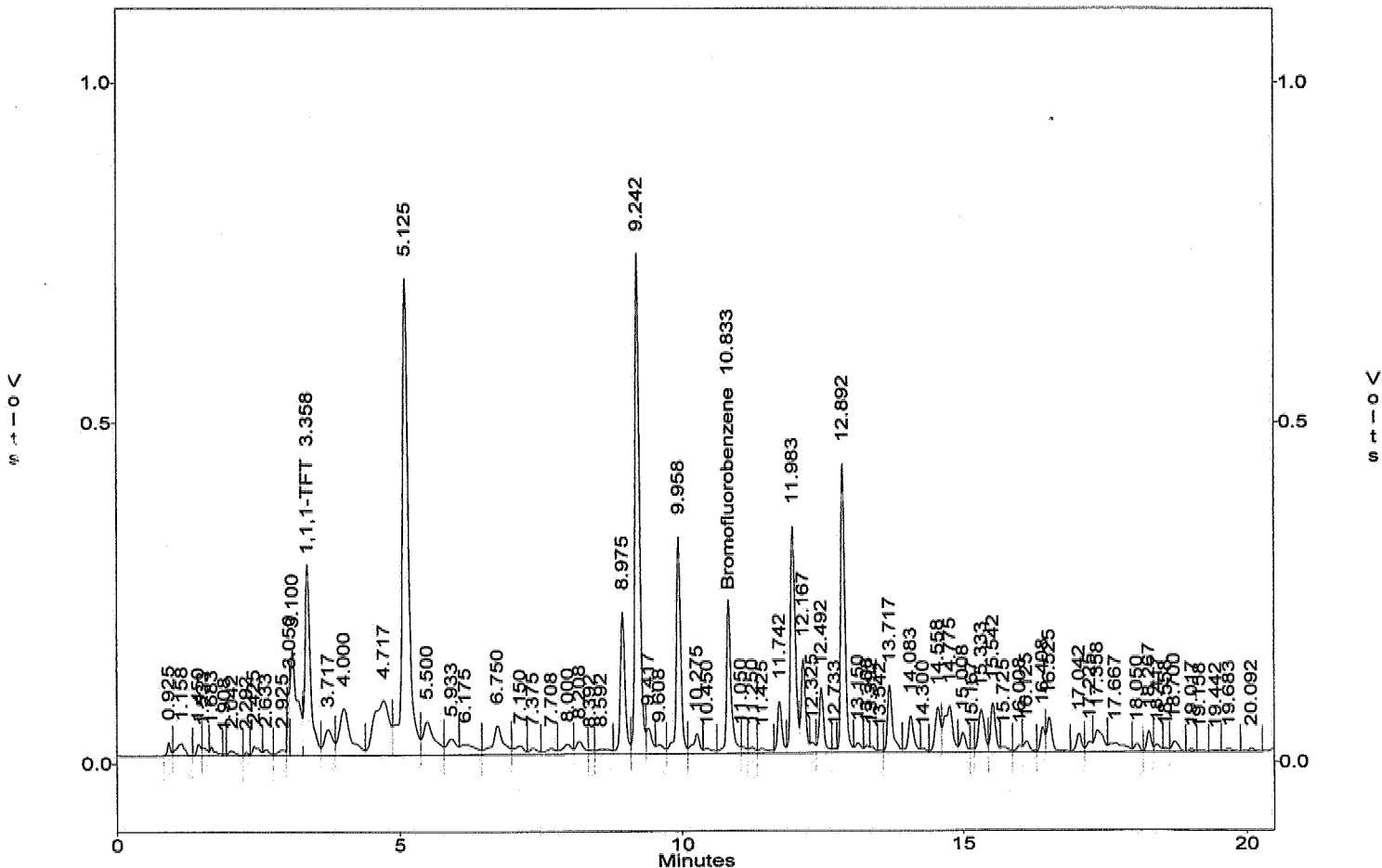
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.024
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-06 2000/75
 Acquired : Mar 04, 2006 02:57:07
 Printed : Mar 06, 2006 12:21:39
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.358	1845865.0	21531.8	75.00
37	Bromofluorobenzene	10.833	1298426.0	15026.0	75.00
G1	GASOLINE (TOTAL)		33415984.0	15352.4	2000.00
G2	GRO (C6-C10)		27390820.0	12418.6	2000.00
G3	GRO (2MP-124TMB)		27446880.0	12455.2	2000.00
G4	GRO (C5-C12)		33290400.0	15149.8	2000.00

c:\ezchrom\chrom\ec03\ec03.024 -- Channel A



At
02/06/06
1023

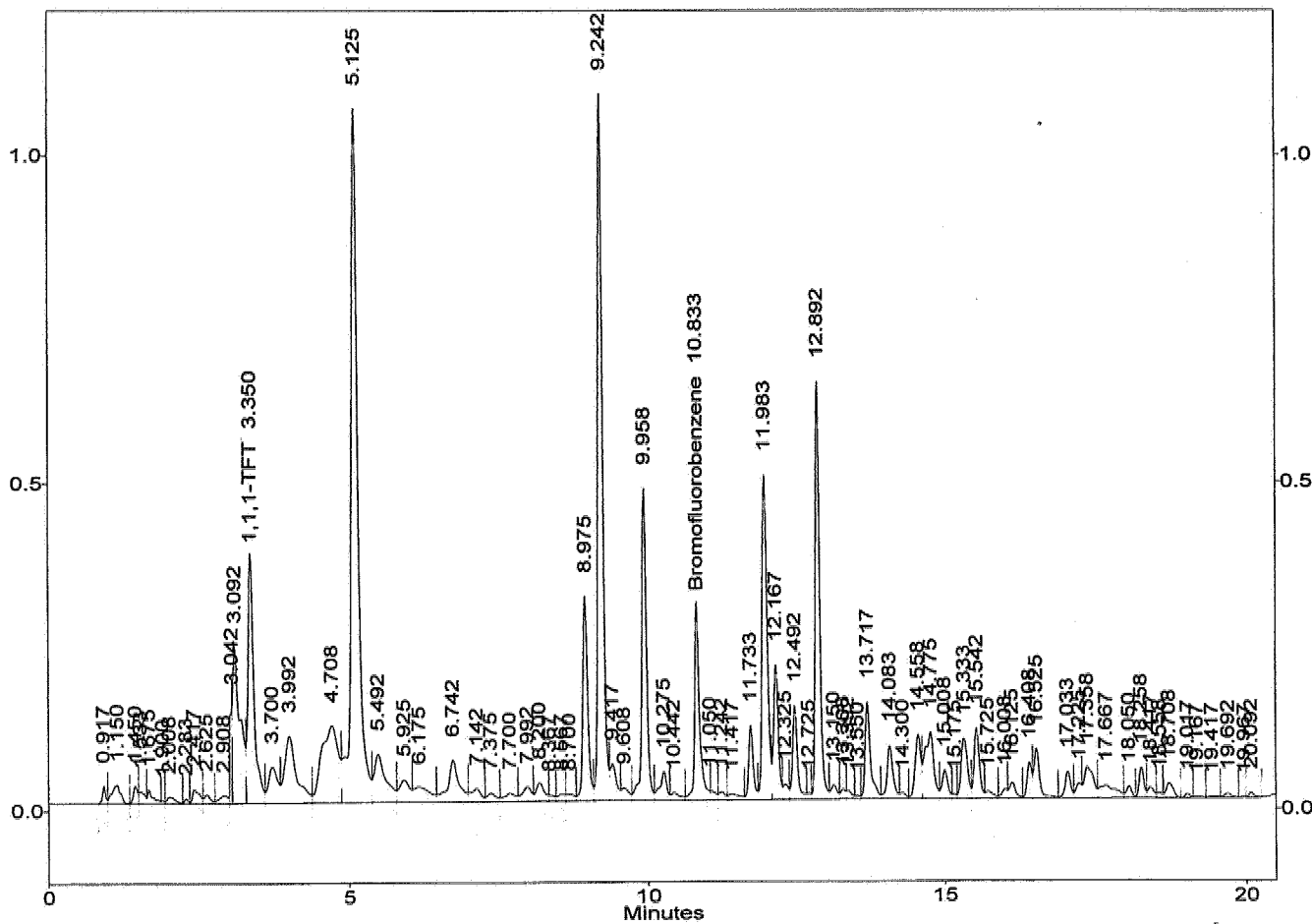
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.025 ✓
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-07 3000/100
 Acquired : Mar 04, 2006 03:35:22
 Printed : Mar 06, 2006 12:22:07
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.350	2570044.0	21531.8	100.00
38	Bromofluorobenzene	10.833	1763520.0	15026.0	100.00 ✓
G1	GASOLINE (TOTAL)		49999240.0	15352.4	3000.00
G2	GRO (C6-C10)		41032744.0	12418.6	3000.00
G3	GRO (2MP-124TMB)		41125540.0	12455.2	3000.00
G4	GRO (C5-C12)		49821432.0	15149.8	3000.00

c:\ezchrom\chrom\ec03\ec03.025 -- Channel A



St
03/06/06
4024

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40 ✓
 Conc Cont LFID & Datetime: EC03026A 03/04/2006 04:13 ✓
 CONC UNIT : ppb ✓

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7188130	468.21	-6		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5837213	470.04	-6		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5812679	466.69	-7		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7136784	471.08	-6		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.833	10.771	10.895	40.0	15026.0	621377	41.35	3		15
1,1,1-Trifluorotoluene	3.358	3.257	3.459	40.0	21531.8	834546	38.76	-3		15

VG39C03.MET

AA
03/06/04
4026

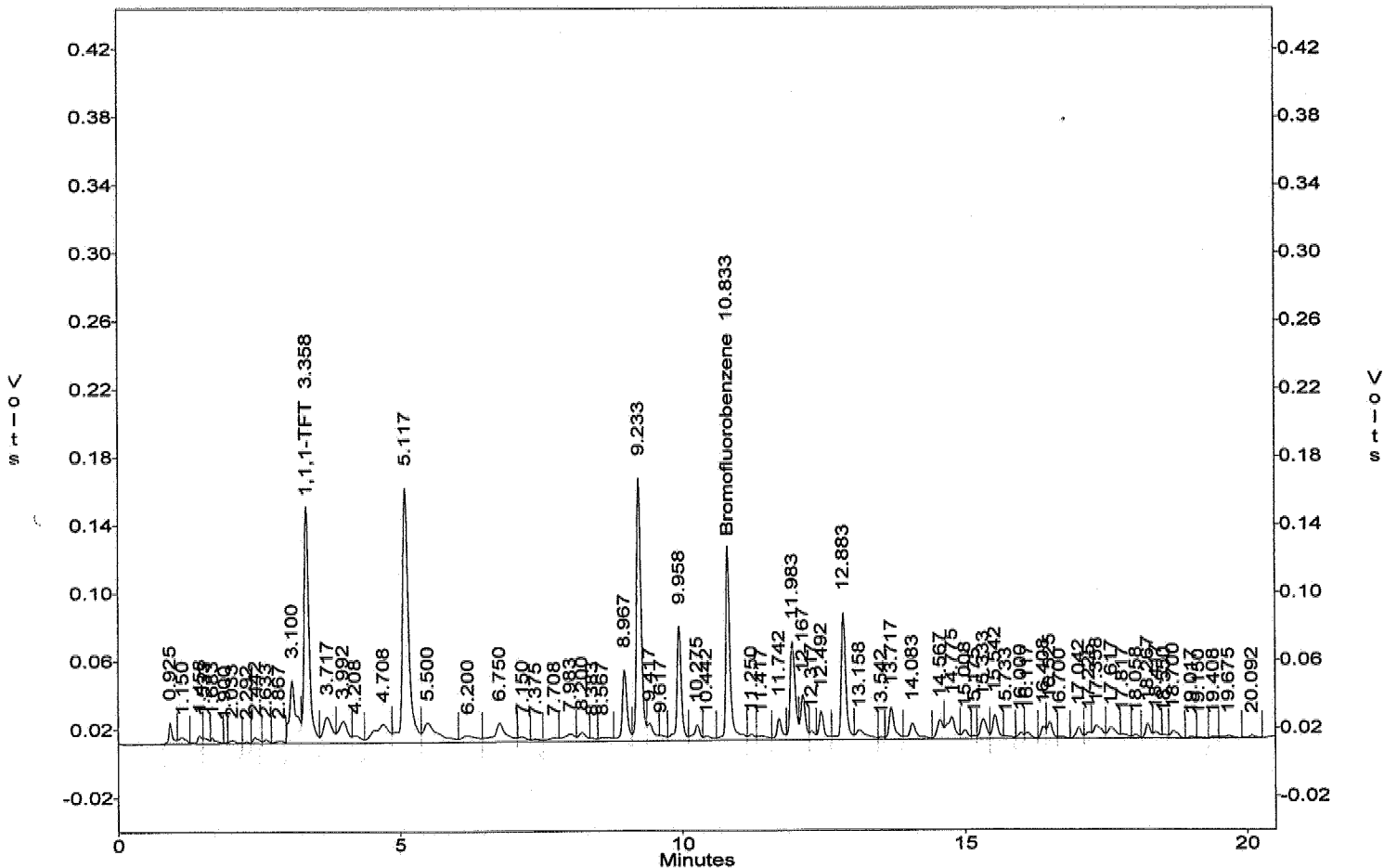
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.026
 Method : c:\ezchrom\methods\vg39c03.met ✓
 Sample ID : IVG39C0301 500/40
 Acquired : Mar 04, 2006 04:13:31
 Printed : Mar 06, 2006 12:24:44 ✓
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.358	834546.0	21531.8	38.76
36	Bromofluorobenzene	10.833	621377.0	15026.0	41.35
G1	GASOLINE (TOTAL)		7188130.0	15352.4	468.21
G2	GRO (C6-C10)		5837213.0	12418.6	470.04
G3	GRO (2MP-124TMB)		5812679.0	12455.2	466.69
G4	GRO (C5-C12)		7136784.0	15149.8	471.08

c:\ezchrom\chrom\ec03\ec03.026 - Channel A



DA
03/06/06
4027

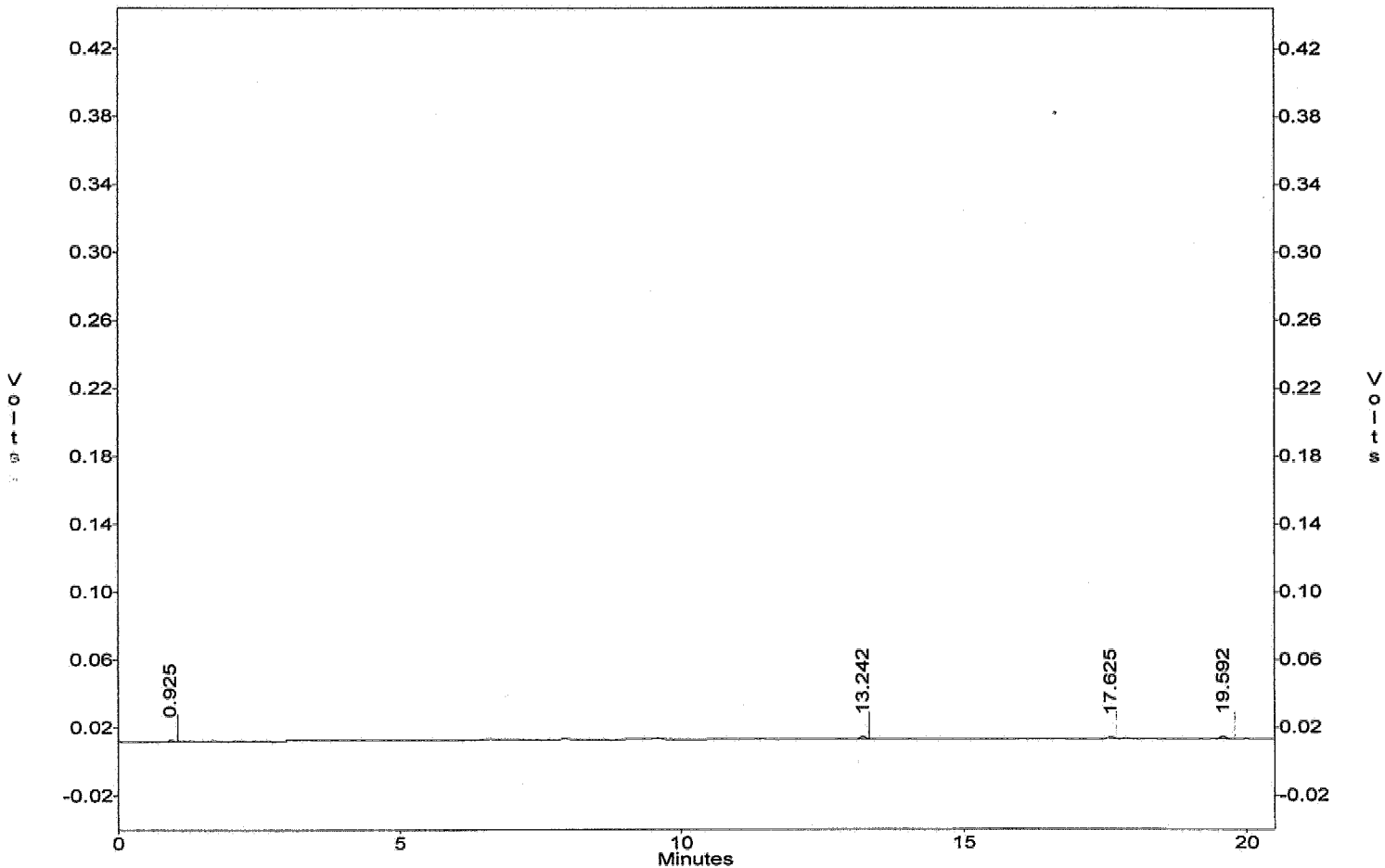
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.018
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : IB39C735
Acquired : Mar 03, 2006 23:07:55
Printed : Mar 06, 2006 12:25:52
User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE (TOTAL)		21778.0	15352.4	1.42
G2	GRO (C6-C10)		0.0	12418.6	0.00
G3	GRO (2MP-124TMB)		0.0	12455.2	0.00
G4	GRO (C5-C12)		12407.0	15149.8	0.82

c:\ezchrom\chrom\ec03\ec03.018 -- Channel A



S
03/06/06

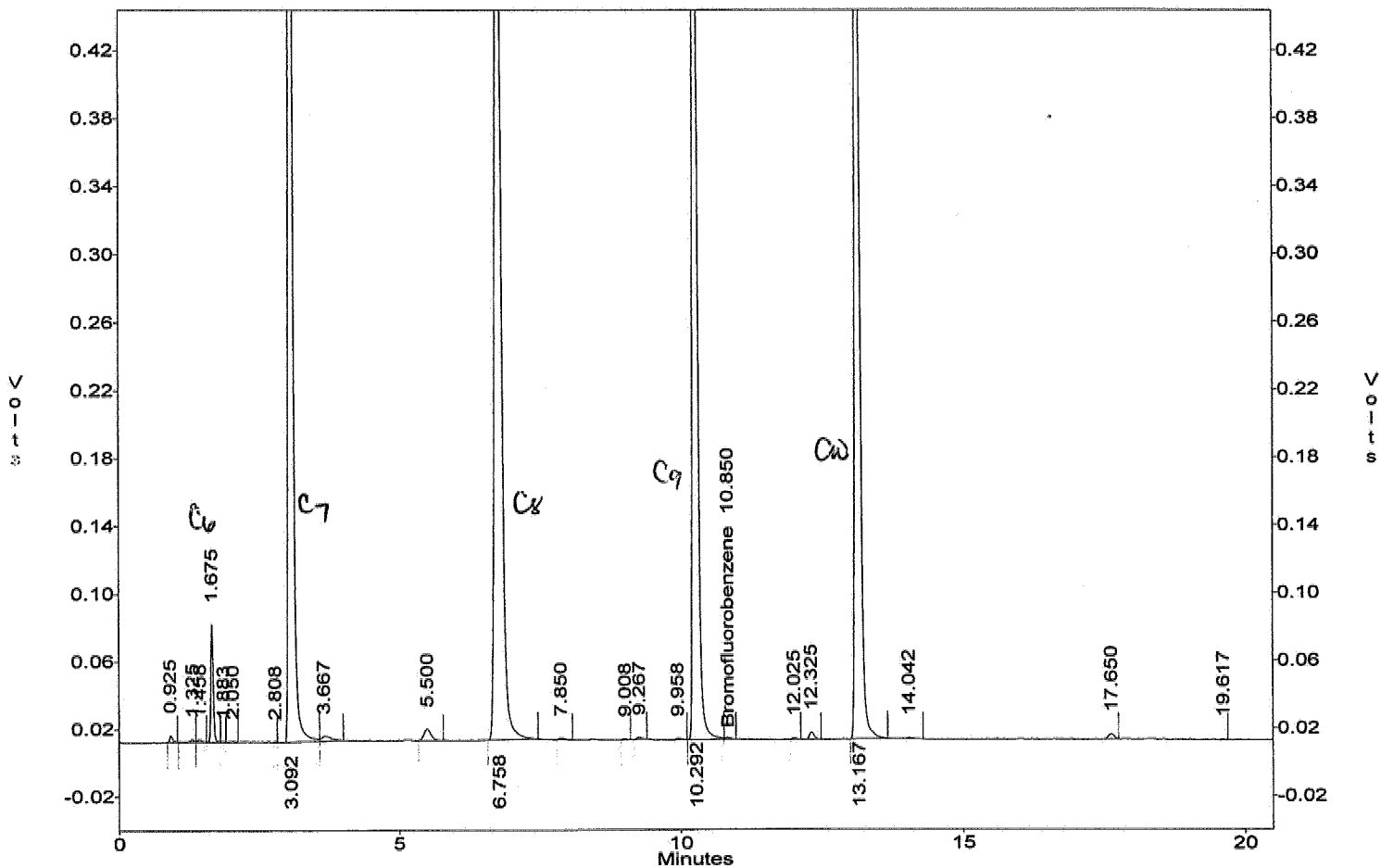
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.038
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : GRO
Acquired : Mar 04, 2006 11:51:49
Printed : Mar 07, 2006 09:10:15
User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
17	Bromofluorobenzene	10.850	7464.0	15026.0	0.50
G1	GASOLINE (TOTAL)		19320312.0	15352.4	1258.46
G2	GRO (C6-C10)		19276316.0	12418.6	1552.21
G3	GRO (2MP-124TMB)		14900208.0	12455.2	1196.30
G4	GRO (C5-C12)		19318510.0	15149.8	1275.17

c:\ezchrom\chrom\ec03\ec03.038 -- Channel A



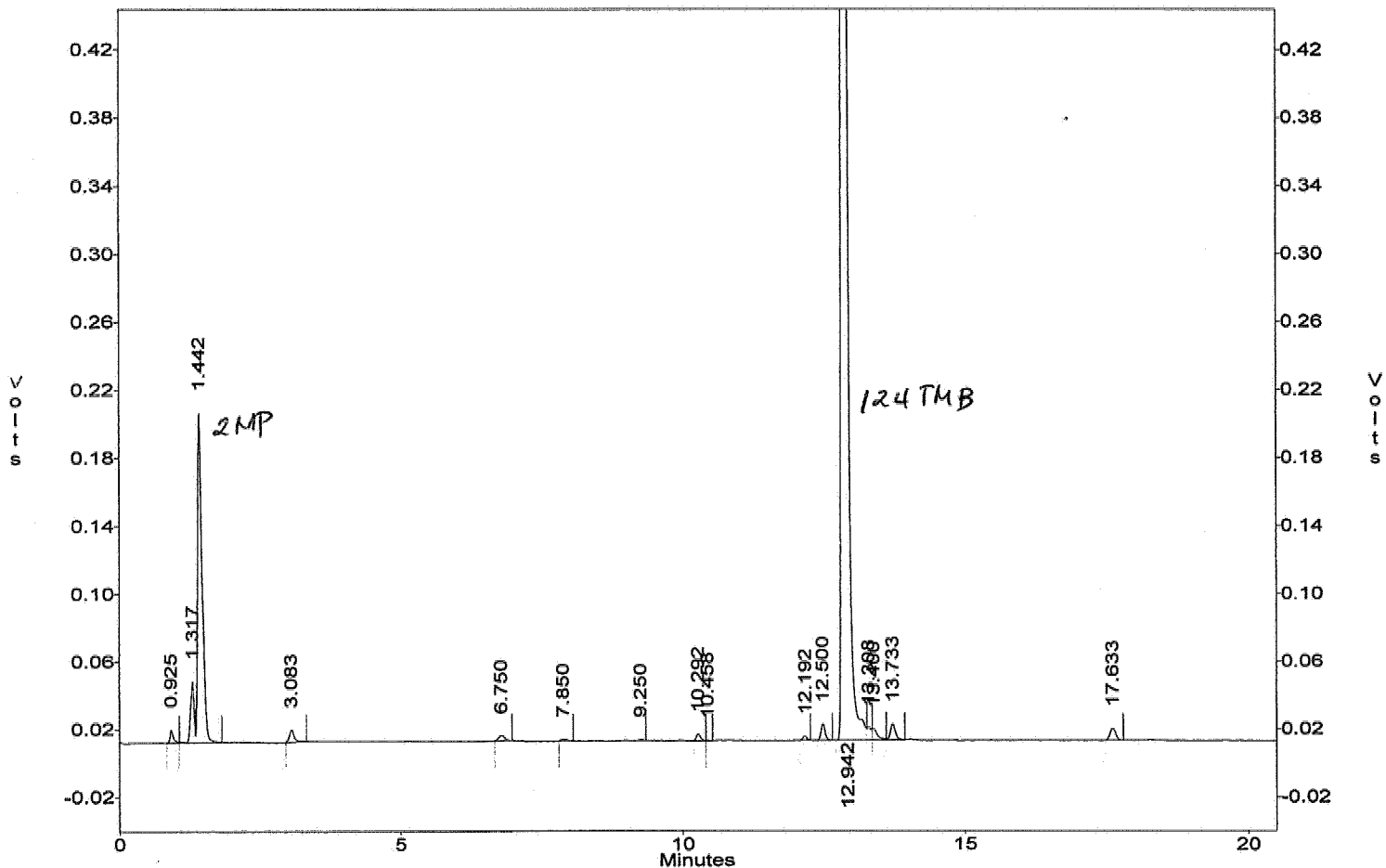
METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.039
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : 2MP/1,2,4-TMP *As 3/6/06*
 Acquired : Mar 04, 2006 12:30:00
 Printed : Mar 07, 2006 09:11:54
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE (TOTAL)		9695057.0	15352.4	631.50
G2	GRO (C6-C10)		8269772.0	12418.6	665.92
G3	GRO (2MP-124TMB)		8269772.0	12455.2	663.96
G4	GRO (C5-C12)		9695057.0	15149.8	639.95

c:\ezchrom\chrom\ec03\ec03.039 -- Channel A



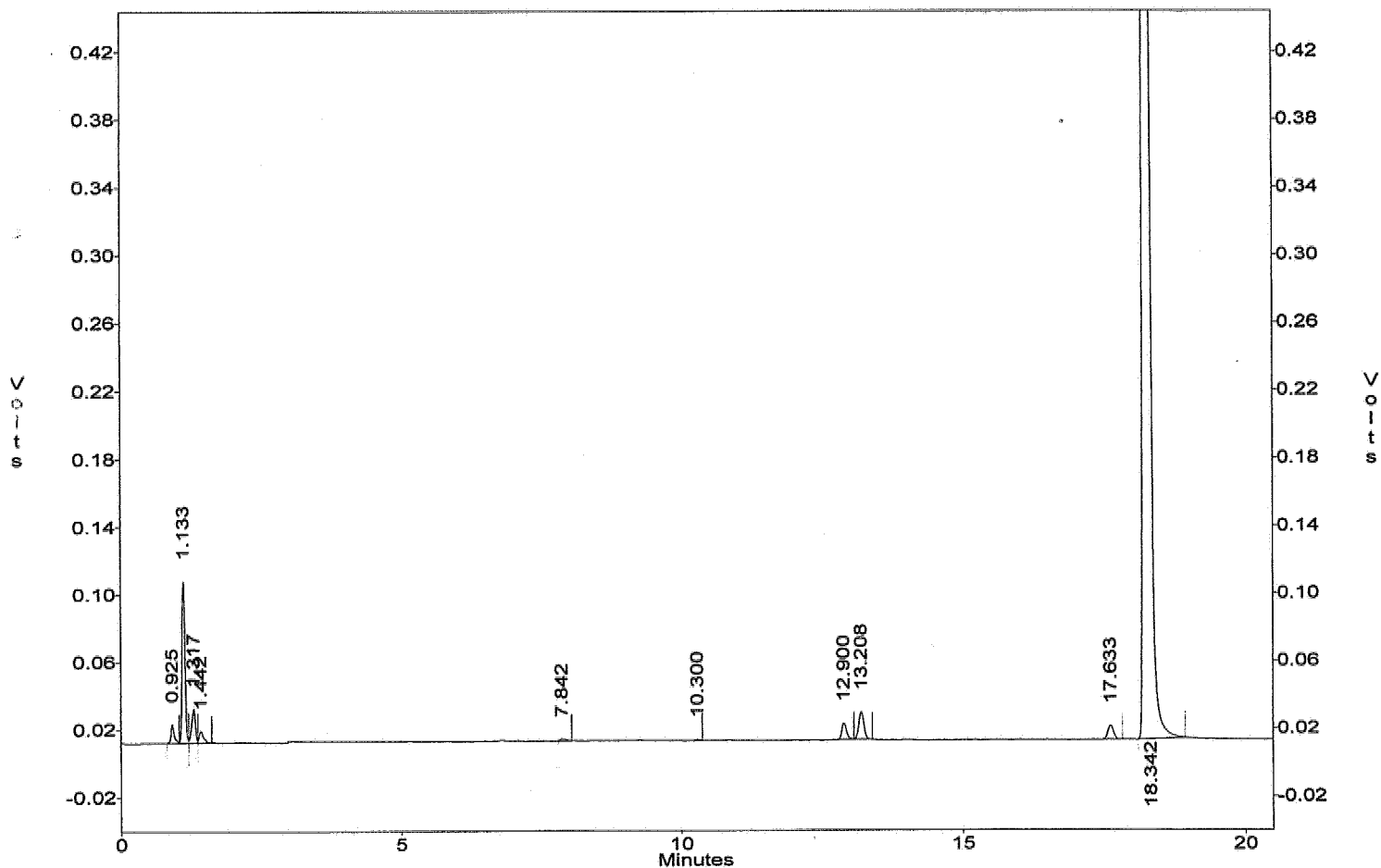
METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.040
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : PENTANE/NAPHTHALENE
 Acquired : Mar 04, 2006 13:08:05
 Printed : Mar 07, 2006 09:12:26
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE (TOTAL)		10242312.0	15352.4	667.15
G2	GRO (C6-C10)		66615.0	12418.6	5.36
G3	GRO (2MP-124TMB)		66615.0	12455.2	5.35
G4	GRO (C5-C12)		10242312.0	15149.8	676.07

c:\ezchrom\chrom\ec03\ec03.040 -- Channel A



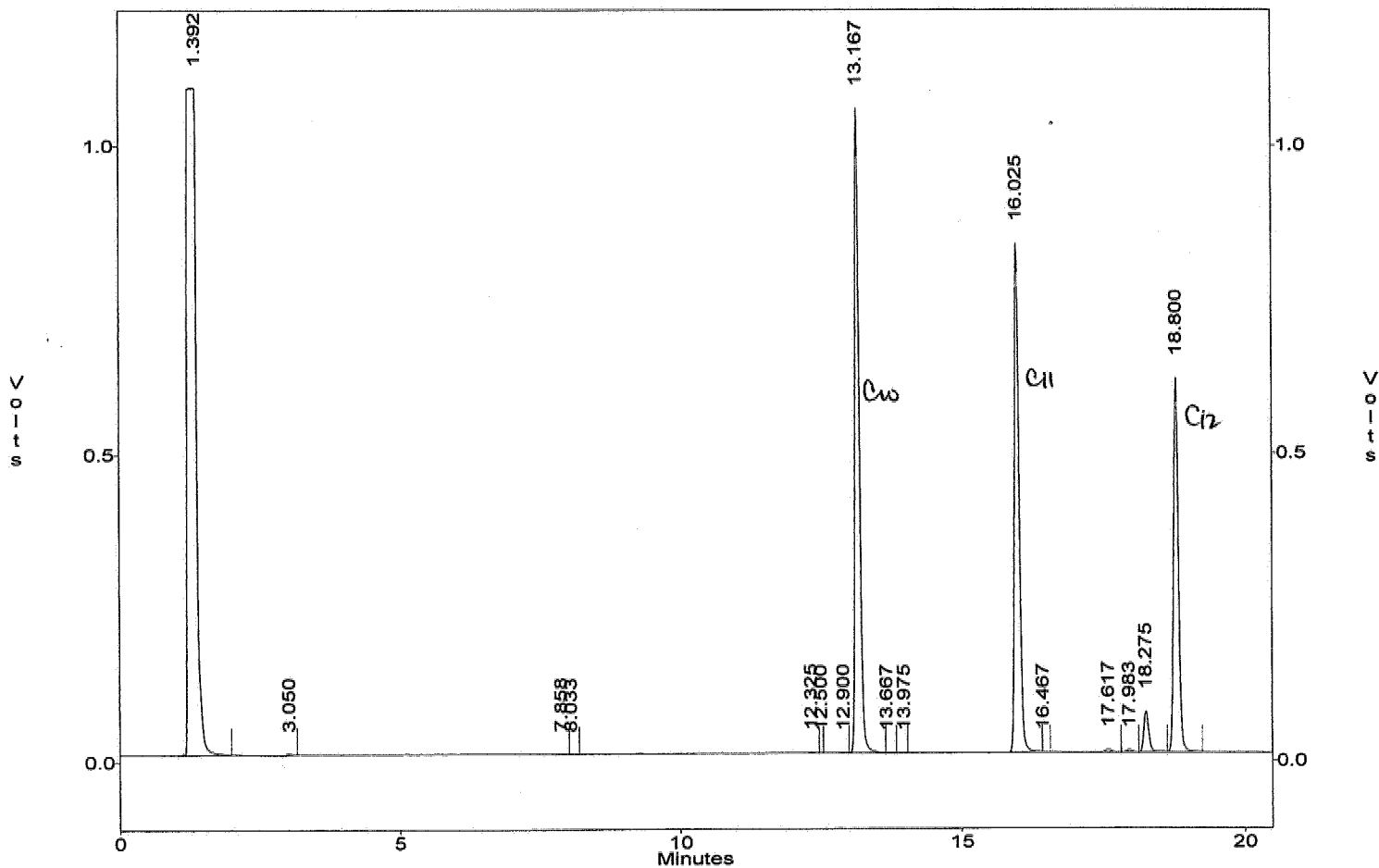
METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.041
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : DRO
 Acquired : Mar 04, 2006 13:46:12
 Printed : Mar 06, 2006 14:18:54
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE (TOTAL)		27431092.0	15352.4	1786.76
G2	GRO (C6-C10)		5737911.0	12418.6	462.04
G3	GRO (2MP-124TMB)		39041.0	12455.2	3.13
G4	GRO (C5-C12)		27431092.0	15149.8	1810.66

c:\ezchrom\chrom\ec03\ec03.041 -- Channel A



DAILY CALIBRATION

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
 Conc Cont LFID & Datetime: EC16002A 03/16/2006 13:55
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	8783483	572.13	14		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	7078166	569.97	14		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	7114184	571.18	14		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	8748073	577.44	15		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.858	10.796	10.920	40.0	15026.0	638271	42.48	6		15
1,1,1-Trifluorotoluene	3.408	3.307	3.509	40.0	21531.8	855542	39.73	-1		15

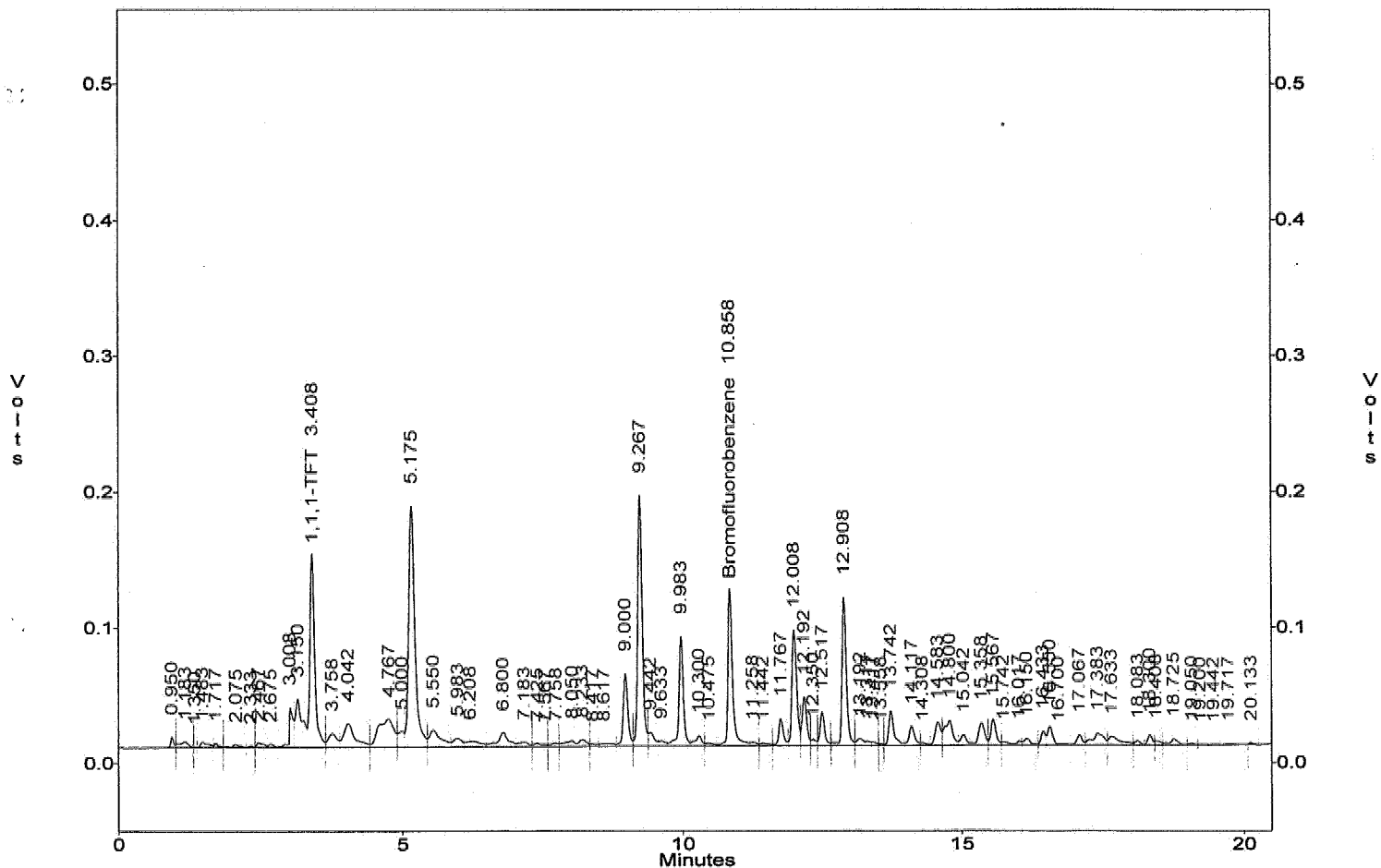
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.002
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : CVG39C03774 500/40
 Acquired : Mar 16, 2006 13:55:27
 Printed : Mar 16, 2006 14:15:59
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.408	855542.0	21531.8	39.73
37	Bromofluorobenzene	10.858	638271.0	15026.0	42.48
G1	GASOLINE (TOTAL)		8783483.0	15352.4	572.13
G2	GRO (C6-C10)		7078166.0	12418.6	569.96
G3	GRO (2MP-124TMB)		7114184.0	12455.2	571.18
G4	GRO (C5-C12)		8748073.0	15149.8	577.44

c:\ezchrom\chrom\ec16\Ec16.002 -- Channel A



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
 Conc Cont LFID & Datetime: EC16014A 03/16/2006 21:36
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	8130363	529.58	6		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	6556834	527.98	6		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	6585515	528.73	6		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	8087111	533.81	7		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.833	10.771	10.895	40.0	15026.0	582900	38.79	-3		15
1,1,1-Trifluorotoluene	3.392	3.291	3.493	40.0	21531.8	783130	36.37	-9		15

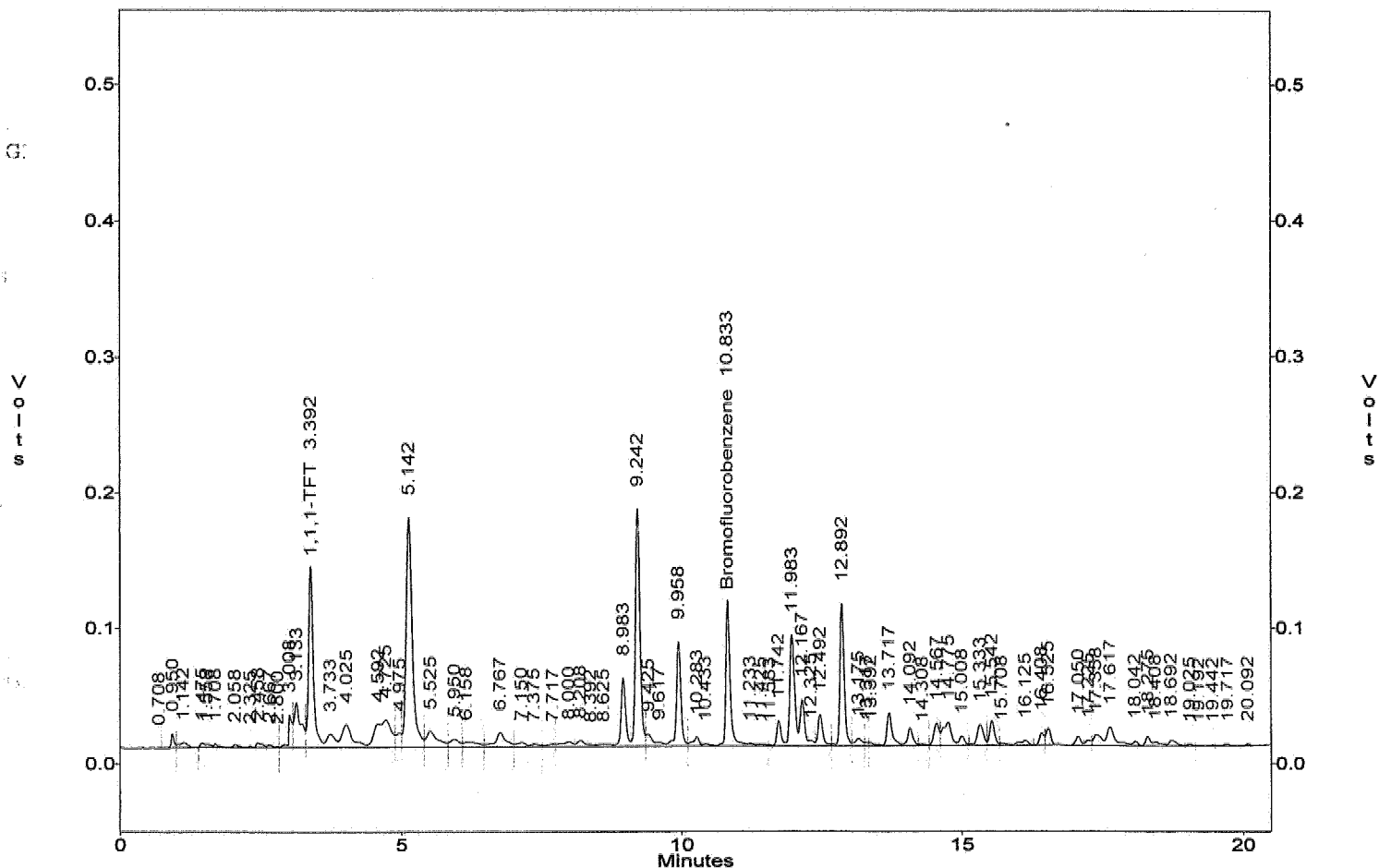
METHOD 8015 by FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.014
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : CVG39C03775 500/40
 Acquired : Mar 16, 2006 21:36:21
 Printed : Mar 16, 2006 21:56:52
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.392	783130.0	21531.8	36.37
39	Bromofluorobenzene	10.833	582900.0	15026.0	38.79
G1	GASOLINE (TOTAL)		8130363.0	15352.4	529.58
G2	GRO (C6-C10)		6556834.0	12418.6	527.98
G3	GRO (2MP-124TMB)		6585515.0	12455.2	528.74
G4	GRO (C5-C12)		8087111.0	15149.8	533.81

c:\ezchrom\chrom\ec16\Ec16.014 -- Channel A



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
 Conc Cont LFID & Datetime: EC16026A 03/17/2006 05:14
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7162239	466.52	-7		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5891643	474.42	-5		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5927071	475.87	-5		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7147860	471.81	-6		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.842	10.780	10.904	40.0	15026.0	561895	37.40	-7		15
1,1,1-Trifluorotoluene	3.375	3.274	3.476	40.0	21531.8	758055	35.21	-12		15

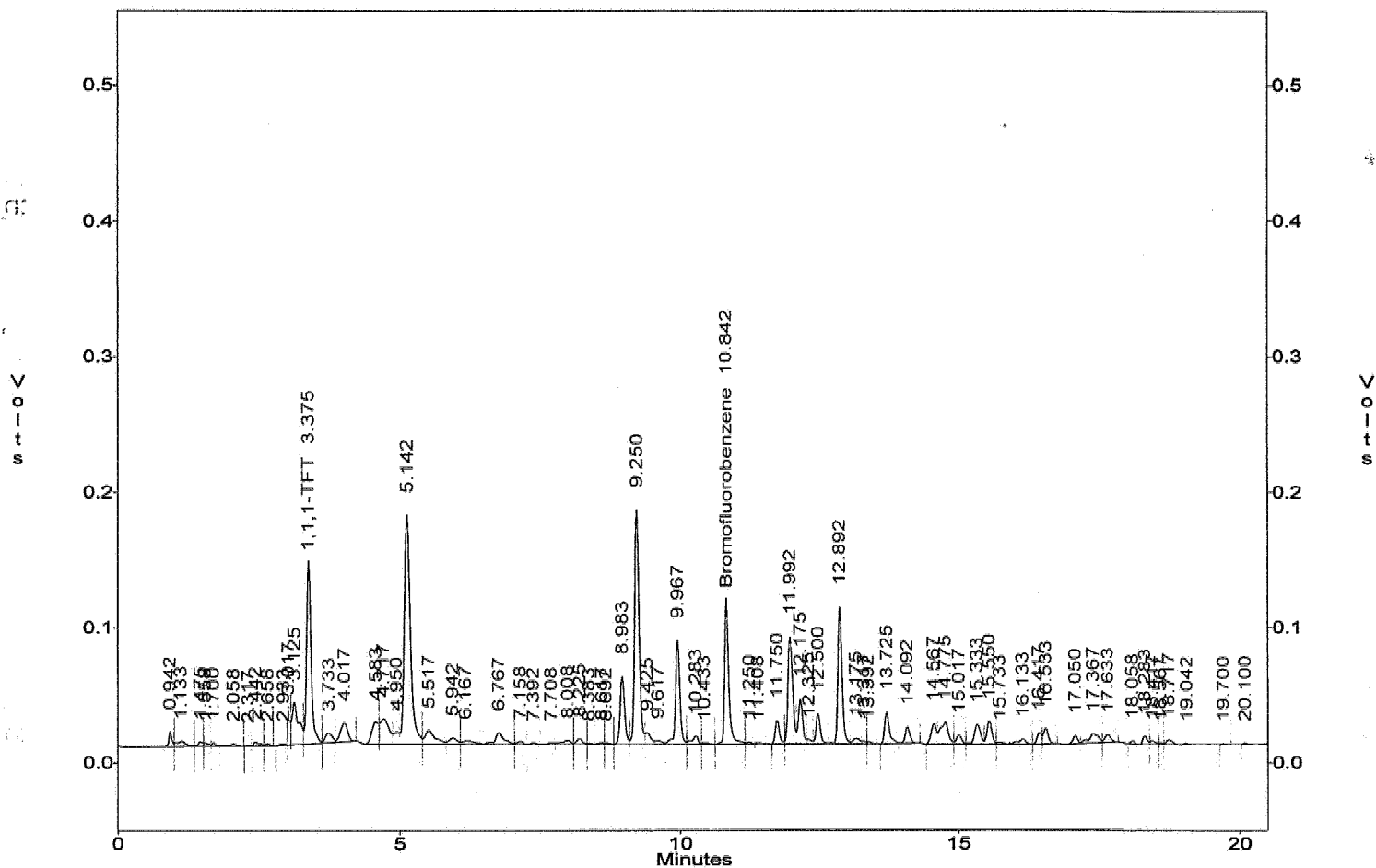
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.026
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : CVG39C03777 500/40
 Acquired : Mar 17, 2006 05:14:19
 Printed : Mar 17, 2006 05:34:51
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.375	758055.0	21531.8	35.21
39	Bromofluorobenzene	10.842	561895.0	15026.0	37.39
G1	GASOLINE (TOTAL)		7162239.0	15352.4	466.52
G2	GRO (C6-C10)		5891643.0	12418.6	474.42
G3	GRO (2MP-124TMB)		5927071.0	12455.2	475.87
G4	GRO (C5-C12)		7147860.0	15149.8	471.81

c:\ezchrom\chrom\ec16\Ec16.026 -- Channel A



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: EMAX-5030B Rev. No. 1 EMAX-BTEXM Rev. No. 1 EMAX-8015G Rev. No. 1 SC 3/06/04 Book # A39-024
 Starting Date: 3/03/06 Time: 23:07 Ending Date: 3/03/06 Time: 3:03/06
 13:46 Time: 22:29-3:06/04

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes	Instrument No:	39
*01	EC03-018	VB39C735	5.0ml	5.0ml	4/4	W		Initial Calibration Reference	
*02	-019	VB39C03-01	1.0ml/1.0ml				20/10	FID Channel A	PID Channel B
*03	-020	-02	1.0ml/2.0ml				50/20	Method File	VB39C03
*04	.021	-03	2.0ml/3.0ml				100/30	Date	3/03/06
*05	.022	-04	1.0ml/4.0ml				500/40	ICAL ID	VB39C03-GAS
*06	.023	-05	2.0ml/5.0ml				1000/50	ICAL ID	VA39C03-BTEXM
*07	.024	-06	4.0ml/7.5ml				2000/75	ICAL ID	VB39C0301/02 GAS
*08	.025	-07	6.0ml/10.0ml				3000/100	ICAL ID	VB39C0303/-04 BTEXM
*09	.026	VB39C0301	5.0ml/4.0ml				500/40	Std. ID	Conc. (mg/L)
*10	.027	VB39C0302	1.0ml/5.0ml				1000/50	DCC GAS	SV2A-04-58 2500
*11	.028	VB39C736	5.0ml				500/40	DCC BTEX	SV2C-04-30-3 50
*12	.029	VA39C03-01	.05ml				5 PPB	BFB/TFT	SV2C-04-31-3 50
*13	.030	-02	1.0ml				1 PPB	LCS/LCSD	SV2A-04-67 5000
*14	.031	-03	.5ml				5 PPB	MS/MSD	
*15	.032	-04	2.0ml				20 PPB	BTEX Los/lev	SV2C-04-31-1 50
*16	.033	-05	4.0ml				40 PPB	Solvent	ID
*17	.034	-06	7.5ml				75 PPB	Methanol	
*18	.035	-07	10.0ml				100 PPB	Electronic Data Archival	
*19	.036	VB39C0303	2.0ml				BTEX ICV 20/20	Location	Date
*20	.037	VB39C0304	4.0ml				BTEX ICV 40/40	EZC-3-BTEX	
*21	.038	GRO	.5ml						
*22	.039	ZMP/12.4-TMB	1.0ml/5.0ml						
*23	.040	PENTANIE/MARATHALENE	3.0ml/5.0ml						
*24	.041	DRO	.5ml						
*25									
*26									
*27									
*28									
*29									
*30									

Comments:

Analyzed By: SC
 Disposed on: 3/06/06 By: SC

ANALYTICAL BATCH # 2/A

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: EMAX-5030B Rev. No. 1 EMAX-BTEXM Rev. No. 1 EMAX-8015G Rev. No. 1 Time: 13:16 Ending Date: 3/17/06 Time: 7:47 Book # A39-024

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC16 .001	IB39C774	5.0mL	5.0mL	N/A	W	500/40 GAS
*02	.002	CV639C03774	1mL/1mL				
*03	.003	VA39C08B	5.0mL				
*04	.004	L					
*05	.005	C					
*06	.006	06C501-01			L2		
*07	.007	02					
*08	.008	03					
*09	.009	06C135-11					
*10	.010	11M					
*11	.011	11S					
*12	.012	12					
*13	.013	13					
*14	.014	CV639C03775	1mL/1mL		N/A		500/40 GAS
*15	.015	CV639C03776	1mL/1mL				500/40 GAS
*16	.016	06C119-01	5.0mL		L2		
*17	.017	02					
*18	.018	06C123-03					
*19	.019	06C127-09					
*20	.020	10					
*21	.021	NMCO105L	100mL		N/A	S	
*22	.022	C					
*23	.023	B					
*24	.024	06C120-01					
*25	.025	02					
*26	.026	CV639C03777	1mL/1mL				500/40 GAS
*27	.027	CV639C03778	1mL/1mL				500/40 GAS
*28	.028	06C120-03	100mL			S	
*29	.029	04					
*30	.030	04M					

Instrument No:	39
Initial Calibration Reference	
FIDChannel A	PIDChannel B
Method File	VA39C03
Date	03/03/06
ICAL ID	
ICV ID	
Std. ID	Conc. (mg/L)
DOC GAS	SVZA-04-58 2500
DOC BTEX	
BFB/TF	2VZC-04-32-2 200
LCS/LCSD	SVZA-04-67 5000
MS/MSD	SVZA-04-67 5000
Solvent	ID
Methanol	
Electronic Data Archival	
Location	Date
EZC-3-BTEX	

Comments:

Analyzed By: MPA | NJ
 Disposed on: 3/17/06 By: MPA

ANALYTICAL BATCH * VA39C08 ** NMCO105

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C119

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 03/14/06 for Total Petroleum Hydrocarbons by Extraction analysis by Method 3520C/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Extraction was performed on 03/16/06 and completed on 03/17/06.

2. Calibration

Initial calibration was seven points for Diesel and Motor Oil. %RSDs were within 20%. Continuing calibrations were carried out at every 12-hour interval and all recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Hexacosane recovery in the sample, both in the initial and re-analysis, was out of QC limit; however, Bromobenzene met the QC criteria.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No sample was designated for MS/MSD.

7. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception. Sample result was quantitated from C10 to C28 using Diesel (C10-C28) calibration factor and from C28 to C38 using Motor Oil calibration factor.

Discrete peak found in the sample was not reported.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : ENSR
 Project : UPGRAIDENT INVESTIGATION, TRONOX
 SDG NO. : 06C119
 Instrument ID : GCT050

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Date/Time	Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSC015WB	1	NA	03/20/0621:18	03/16/0615:30	TC20015A	TC200004A	DSC015W	Method Blank
LCST1W	DSC015WL	1	NA	03/20/0619:54	03/16/0615:30	TC20013A	TC200004A	DSC015W	Lab Control Sample (LCS)
LCD1W	DSC015WC	1	NA	03/20/0620:36	03/16/0615:30	TC20014A	TC200004A	DSC015W	LCS Duplicate
PUMP BLANK	C119-02	.94	NA	03/21/0600:05	03/16/0615:30	TC20019A	TC20017A	DSC015W	Field Sample

FN - Filename
 % Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : ENSR                               Date Collected: 03/13/06
Project    : UPGRADIENT INVESTIGATION, TRONOX   Date Received: 03/14/06
Batch No.  : 06C119                             Date Extracted: 03/16/06 15:30
Sample ID  : PUMP BLANK                         Date Analyzed: 03/21/06 00:05
Lab Samp ID: C119-02                           Dilution Factor: .94
Lab File ID: TC20019A                          Matrix          : WATER
Ext Btch ID: DSC015W                           % Moisture      : NA
Calib. Ref.: TC20017A                          Instrument ID   : GCT050
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	66	45-154
HEXACOSANE	62*	63-165

RL : Reporting Limit
Parameter H-C Range
DRO C10-C28
ORO C28-C38

* : Out of QC limits

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

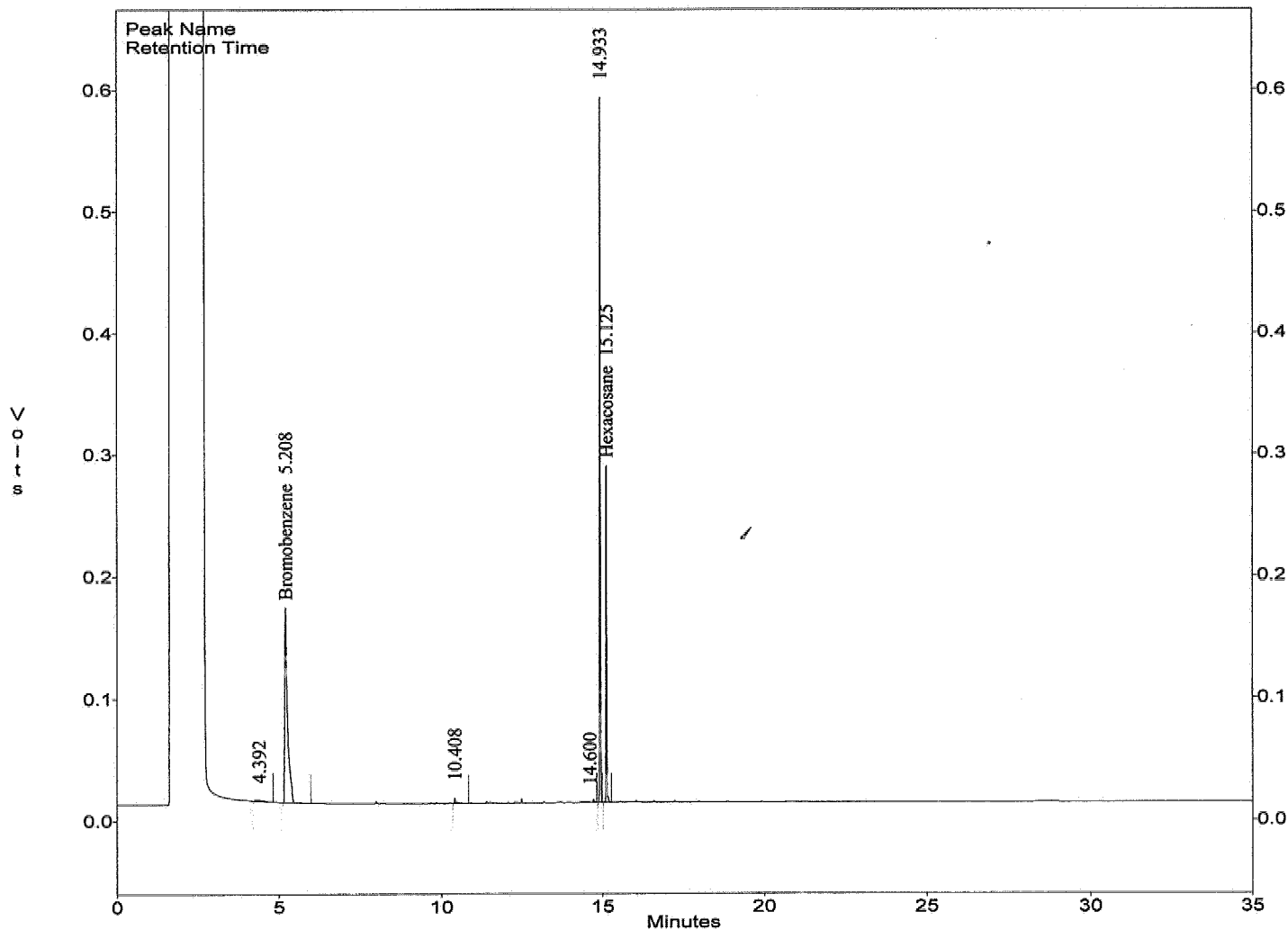
File : c:\ezchrom\chrom\tc20\tc20.019
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : 06C119-02
 Acquired : Mar 21, 2006 00:05:33
 Printed : Mar 21, 2006 09:36:56
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.208	931091	14214.3	65.5
6	Hexacosane	15.125	447076	28984.5	15.4
G1	Diesel (TOTAL)		1075925	26500.7	40.6
G2	Diesel (C10-C24)		13742	26460.6	0.5
G3	Diesel (C10-C28)		1057758	26478.8	39.9
G4	Dscrt Peak (14.933)		1028373	0.0	0.0

$$\text{Diesel (C10-C28)} = \frac{1057758 - 1028373}{264788} = 1.11$$

c:\ezchrom\chrom\tc20\tc20.019 -- Channel A



QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : ENSR                      Date Collected: NA
Project    : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/16/06
Batch No.  : 06C119                    Date Extracted: 03/16/06 15:30
Sample ID  : MBLK1W                     Date Analyzed: 03/20/06 21:18
Lab Samp ID: DSC015WB                   Dilution Factor: 1
Lab File ID: TC20015A                   Matrix          : WATER
Ext Btch ID: DSC015W                    % Moisture      : NA
Calib. Ref.: TC20004A                   Instrument ID   : GCT050
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.5	.1
ORO	ND	1	.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	68	50-140
HEXACOSANE	119	70-150

RL : Reporting Limit
Parameter H-C Range
DRO C10-C28
ORO C28-C38

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD 3520C/8015B

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: DSC015WB DSC015WL DSC015WC
LAB FILE ID: TC20015A TC20013A TC20014A
DATE EXTRACTED: 03/16/0615:30 03/16/0615:30 03/16/0615:30 DATE COLLECTED: NA
DATE ANALYZED: 03/20/0621:18 03/20/0619:54 03/20/0620:36 DATE RECEIVED: 03/16/06
PREP. BATCH: DSC015W DSC015W DSC015W
CALIB. REF: TC20004A TC20004A TC20004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
DRO	ND	5	4.35	87	5	4.64	93	6	60-140	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	.723	72	1	.787	79	50-140
Hexacosane	.25	.291	117	.25	.303	121	70-150

QC DATA

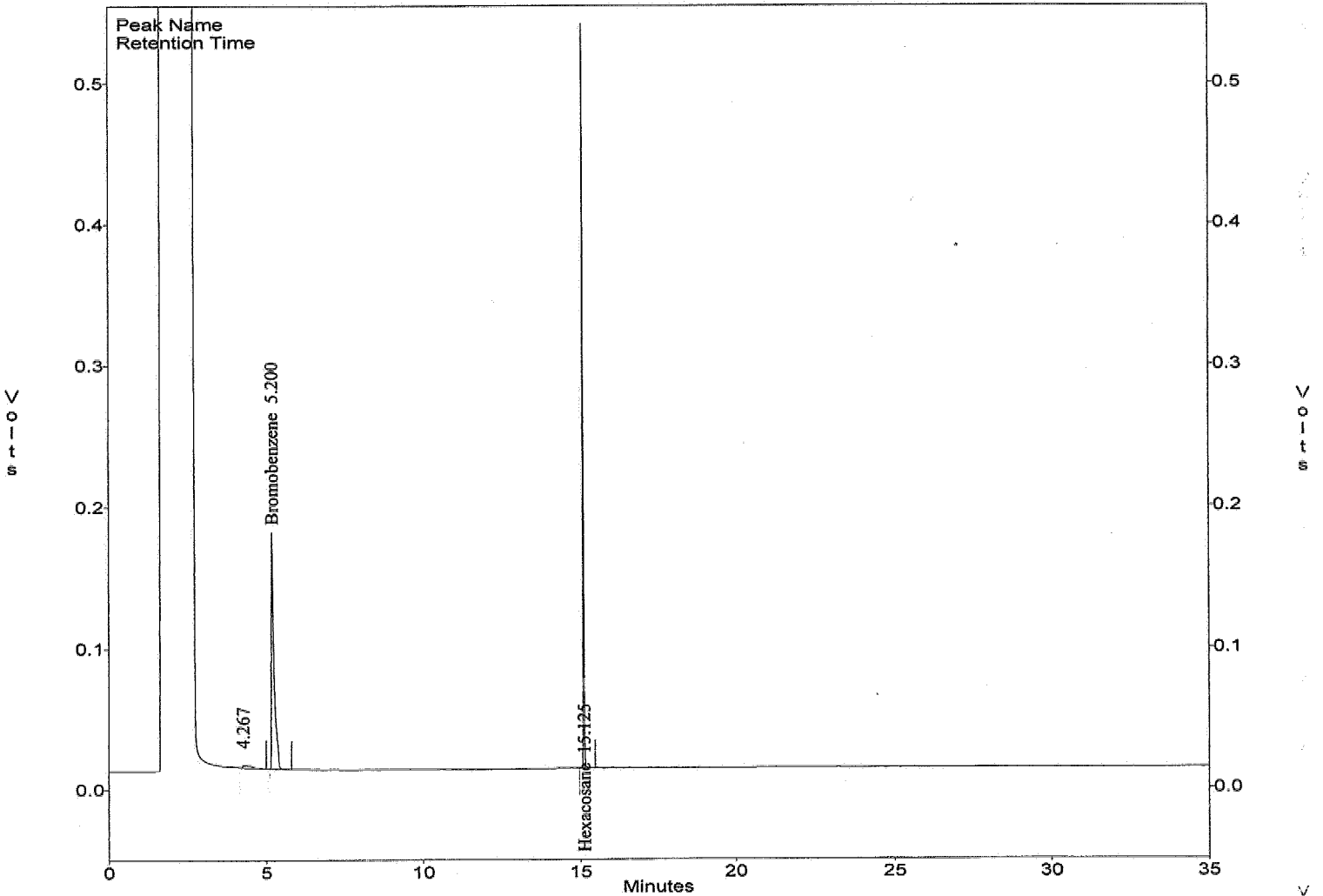
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.015
Method : c:\ezchrom\methods\Ds50a31.met
Sample ID : DSC015WB
Acquired : Mar 20, 2006 21:18:00 ✓
Printed : Mar 20, 2006 21:53:01
User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.200	966496	14214.3	68.0
3	Hexacosane	15.125	863807	28984.5	29.8
G1	Diesel (TOTAL)		37193	26500.7	1.4
G2	Diesel (C10-C24)		0	26460.6	0.0
G3	Diesel (C10-C28)		0	26478.8	0.0

c:\ezchrom\chrom\tc20\tc20.015 -- Channel A



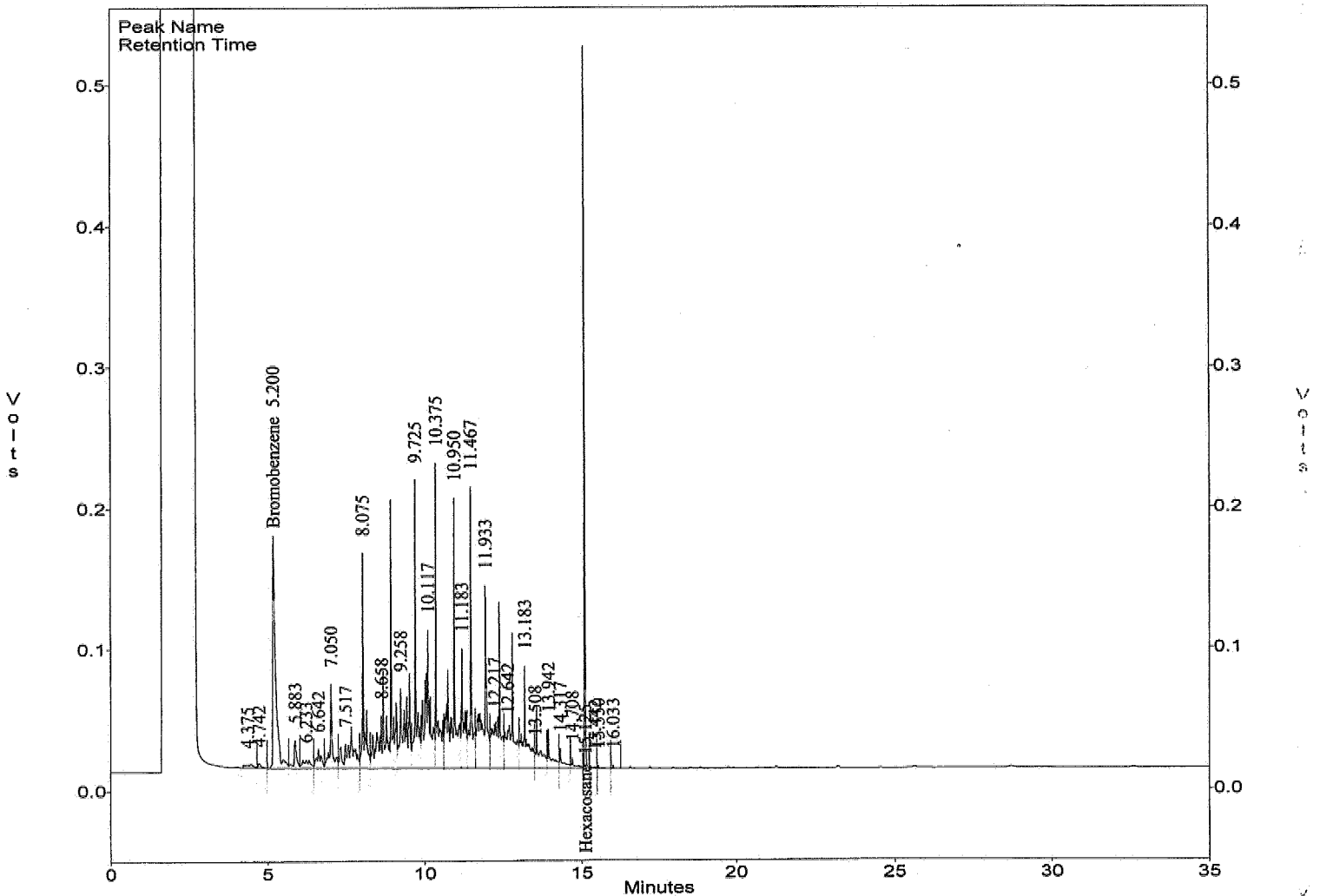
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.013
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DSC015WL
 Acquired : Mar 20, 2006 19:54:07
 Printed : Mar 21, 2006 09:32:44
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.200	1027297	14214.3	72.3
26	Hexacosane	15.125	844712	28984.5	29.1
G1	Diesel (TOTAL)		11707497	26500.7	441.8
G2	Diesel (C10-C24)		11459609	26460.6	433.1
G3	Diesel (C10-C28)		11513064	26478.8	434.8

c:\ezchrom\chrom\tc20\tc20.013 -- Channel A



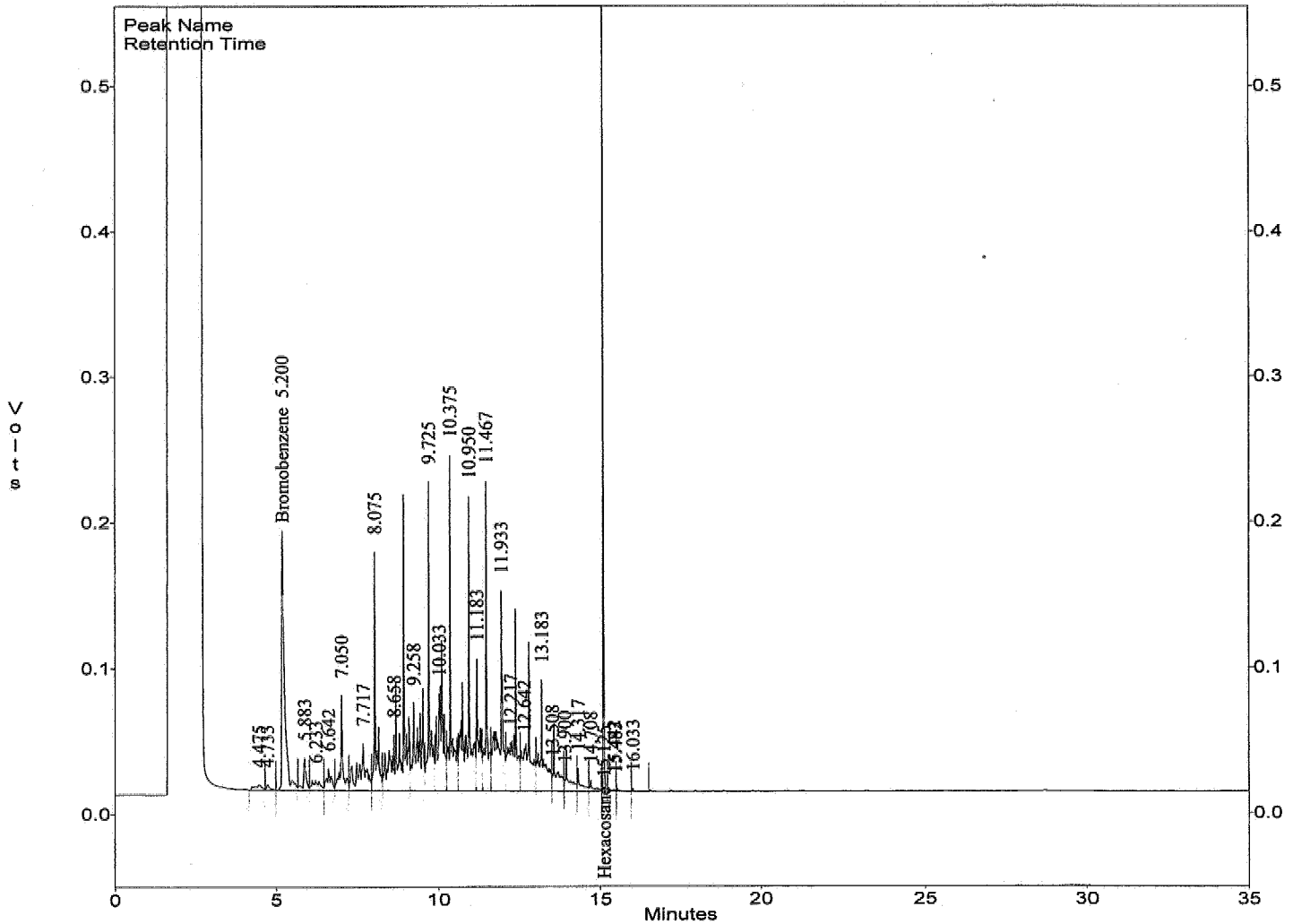
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.014
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DSC015WC
 Acquired : Mar 20, 2006 20:36:05 ✓
 Printed : Mar 21, 2006 09:32:58
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.200	1119283	14214.3	78.7
26	Hexacosane	15.125	878474	28984.5	30.3
G1	Diesel (TOTAL)		12495476	26500.7	471.5
G2	Diesel (C10-C24)		12215803	26460.6	461.7
G3	Diesel (C10-C28)		12273344	26478.8	463.5

c:\ezchrom\chrom\tc20\tc20.014 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 LFID & Datetime: TA31009A 01/31/06 19:57
 LFID & Datetime: TA31010A 01/31/06 20:39
 LFID & Datetime: TA31004A 01/31/06 16:26
 LFID & Datetime: TA31005A 01/31/06 17:08
 LFID & Datetime: TA31006A 01/31/06 17:51
 LFID & Datetime: TA31007A 01/31/06 18:33
 LFID & Datetime: TA31008A 01/31/06 19:15
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT							MEAN	%RSD
		1.00X	2.00X	10.00X	20.00X	100.00X	300.00X	600.00X		
DIESEL (TOTAL)	5.00	29695	33603	21928	26105	23350	24931	25894	26500.7	15.0
DIESEL (C10-C24)	5.00	29695	33603	21896	26080	23330	24845	25775	26460.6	15.1
DIESEL (C10-C28)	5.00	29695	33603	21928	26105	23350	24872	25800	26478.8	15.0
SURROGATE	X	0.50X	1.00X	2.00X	3.00X	5.00X	7.00X	11.00X	MEAN	%RSD
BROMOBENZENE	20.00	-1	13517	14356	15142	13341	14495	14436	14214.3	4.7
HEXACOSANE	5.00	-1	29580	29371	31178	27128	28544	28106	28984.5	4.8

DS50A31.MET

AT
2/1/06

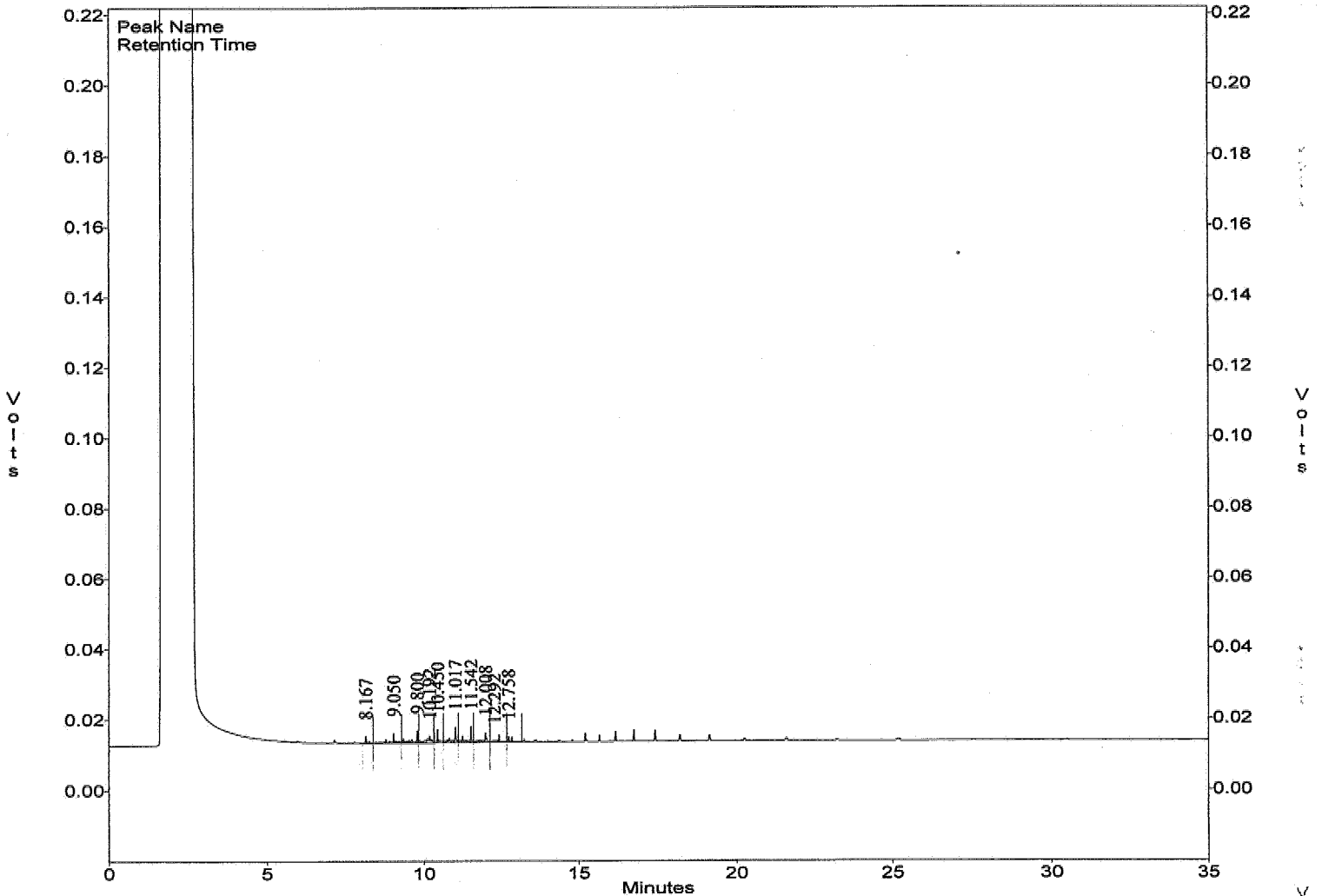
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.009
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3101 5PPM
Acquired : Jan 31, 2006 19:57:35
Printed : Feb 01, 2006 09:34:38
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Bromobenzene	5.283	0	0.0	0.0
--	Hexacosane	15.233	0	0.0	0.0
G1	Diesel (TOTAL)		148474	26500.7	5.0
G2	Diesel (C10-C24)		148474	26460.6	5.0
G3	Diesel (C10-C28)		148474	26478.8	5.0

c:\ezchrom\chrom\ta31\ta31.009 -- Channel A



Handwritten signature
02/01/06

5015

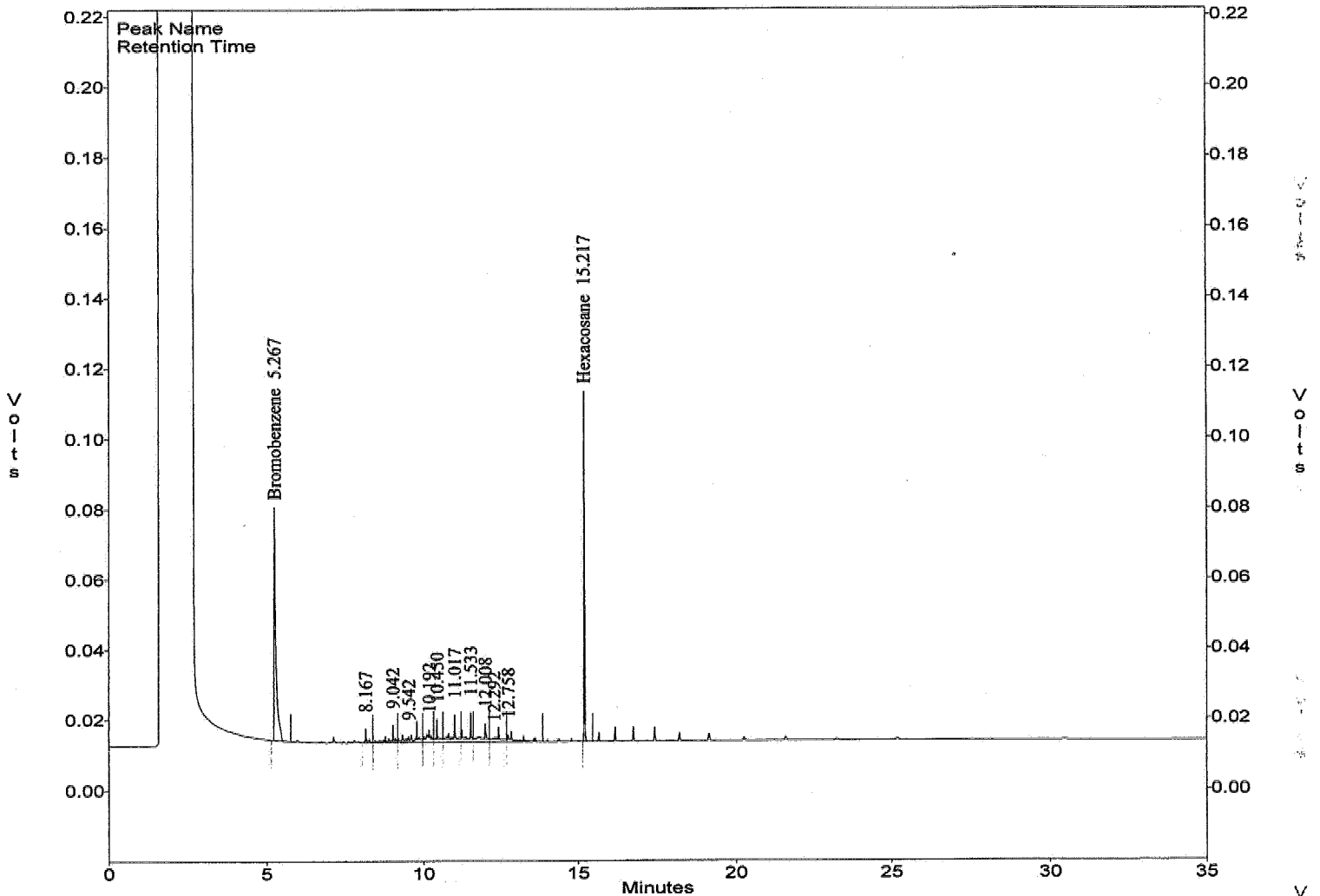
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.010
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3102 10/20/5
 Acquired : Jan 31, 2006 20:39:42
 Printed : Feb 01, 2006 09:34:43
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.267	270334	14214.3	20.0
12	Hexacosane	15.217	147901	28984.5	5.0
G1	Diesel (TOTAL)		336030	26500.7	10.0
G2	Diesel (C10-C24)		336030	26460.6	10.0
G3	Diesel (C10-C28)		336030	26478.8	10.0

c:\ezchrom\chrom\ta31\ta31.010 -- Channel A



DA
02/01/06

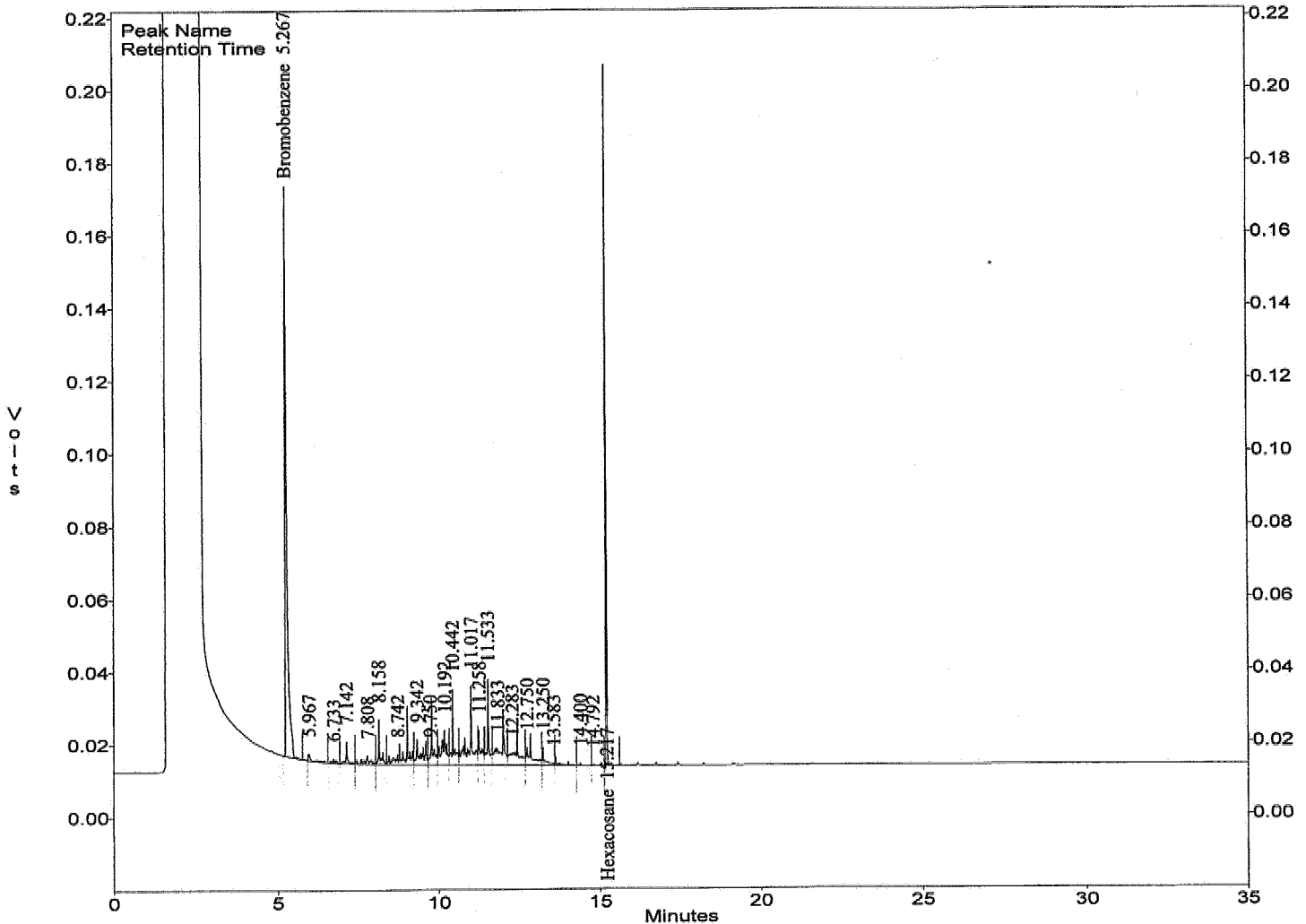
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.004
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3103 50/40/10
 Acquired : Jan 31, 2006 16:26:47
 Printed : Feb 01, 2006 09:34:49
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.267	574237	14214.3	40.0
22	Hexacosane	15.217	293707	28984.5	10.0
G1	Diesel (TOTAL)		1096379	26500.7	50.0
G2	Diesel (C10-C24)		1094793	26460.6	50.0
G3	Diesel (C10-C28)		1096379	26478.8	50.0

c:\ezchrom\chrom\ta31\ta31.004 -- Channel A



AS
02/01/06

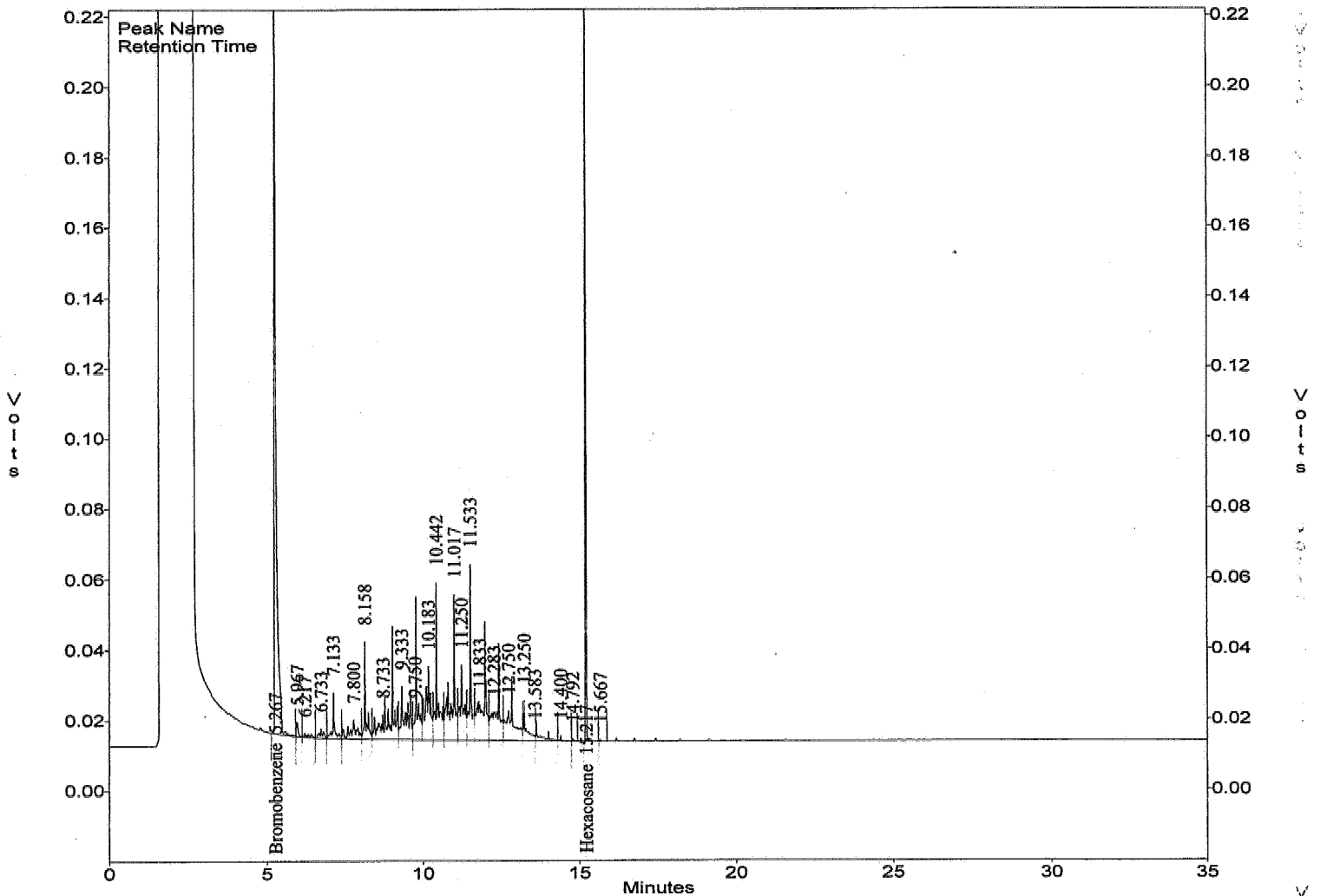
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.005
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3104 100/60/15
 Acquired : Jan 31, 2006 17:08:56
 Printed : Feb 01, 2006 09:35:08
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.267	908499	14214.3	60.0
23	Hexacosane	15.217	467670	28984.5	15.0
G1	Diesel (TOTAL)		2610524	26500.7	100.0
G2	Diesel (C10-C24)		2608042	26460.6	100.0
G3	Diesel (C10-C28)		2610524	26478.8	100.0

c:\ezchrom\chrom\ta31\ta31.005 -- Channel A



RA
02/01/06

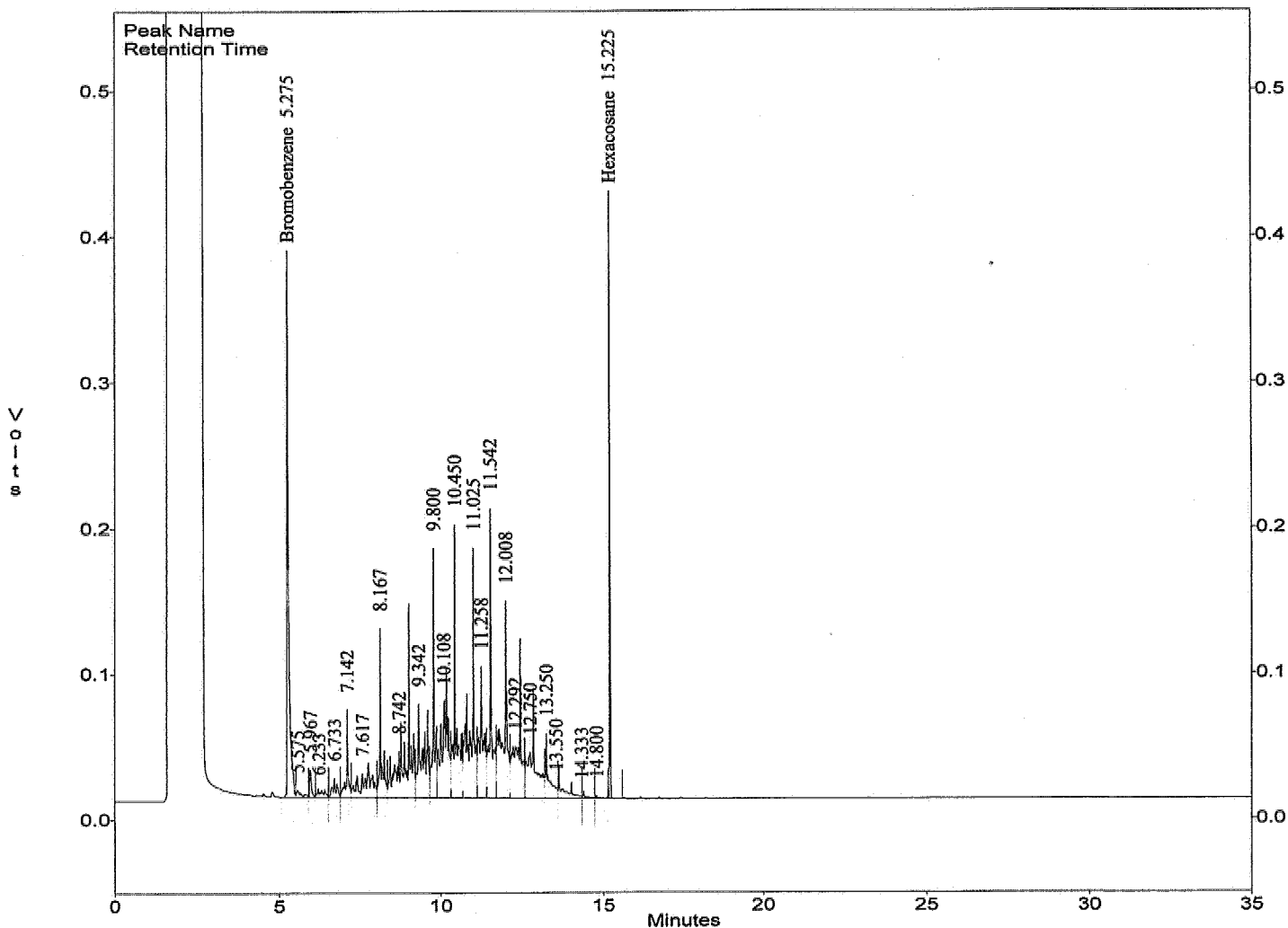
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.006
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3105 500/100/2
 Acquired : Jan 31, 2006 17:51:21
 Printed : Feb 01, 2006 09:35:17
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.275	1334115	14214.3	100.0
24	Hexacosane	15.225	678205	28984.5	25.0
G1	Diesel (TOTAL)		11674800	26500.7	500.0
G2	Diesel (C10-C24)		11665009	26460.6	500.0
G3	Diesel (C10-C28)		11674800	26478.8	500.0

c:\ezchrom\chrom\ta31\ta31.006 -- Channel A



AK
02/01/06
5019

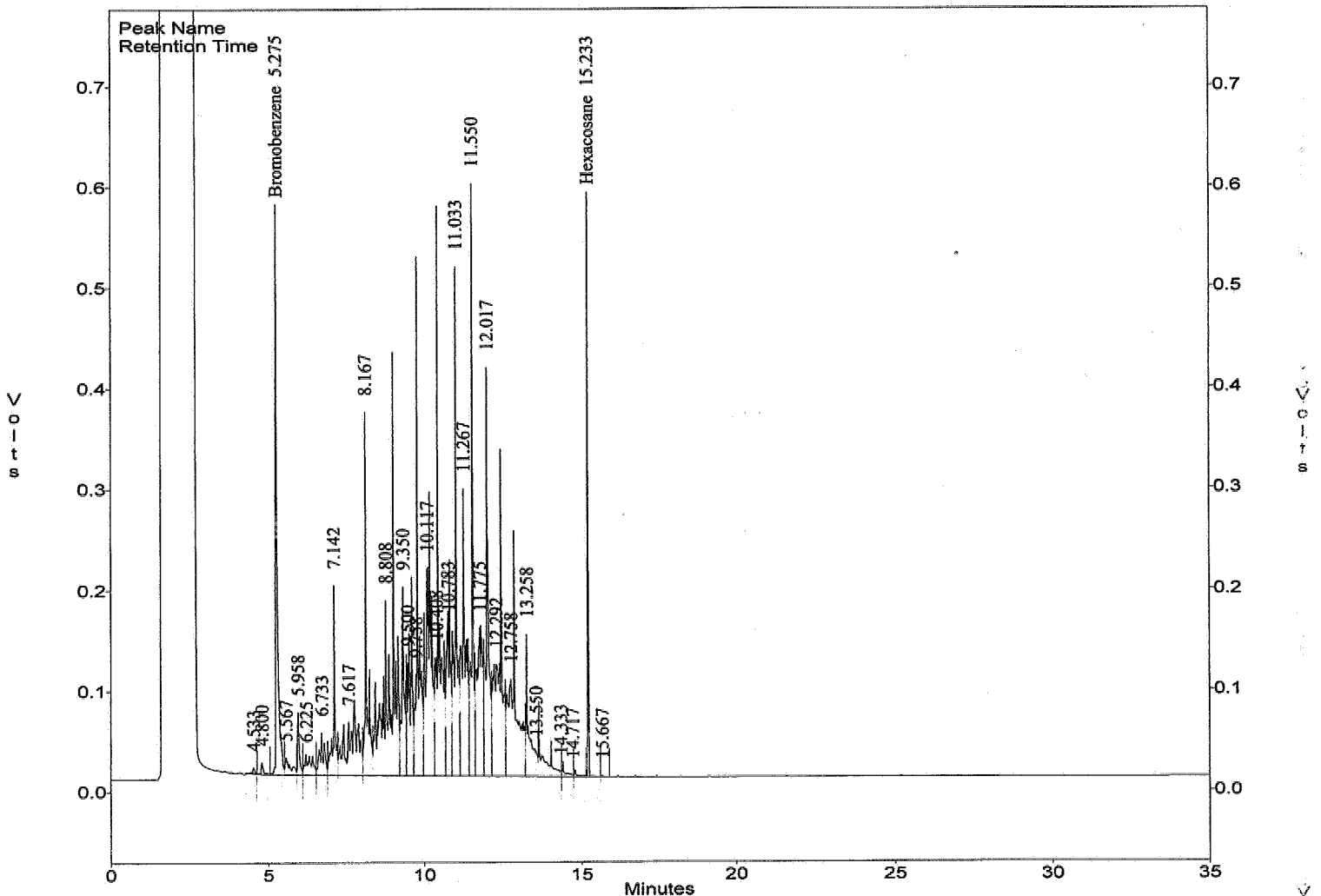
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.007
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3106 1500/140/
 Acquired : Jan 31, 2006 18:33:25
 Printed : Feb 01, 2006 09:35:43
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.275	2029250	14214.3	140.0
29	Hexacosane	15.233	999027	28984.5	35.0
G1	Diesel (TOTAL)		37395864	26500.7	1500.0
G2	Diesel (C10-C24)		37267404	26460.6	1500.0
G3	Diesel (C10-C28)		37307612	26478.8	1500.0

c:\ezchrom\chrom\ta31\ta31.007 -- Channel A



AA
02/01/06
5020

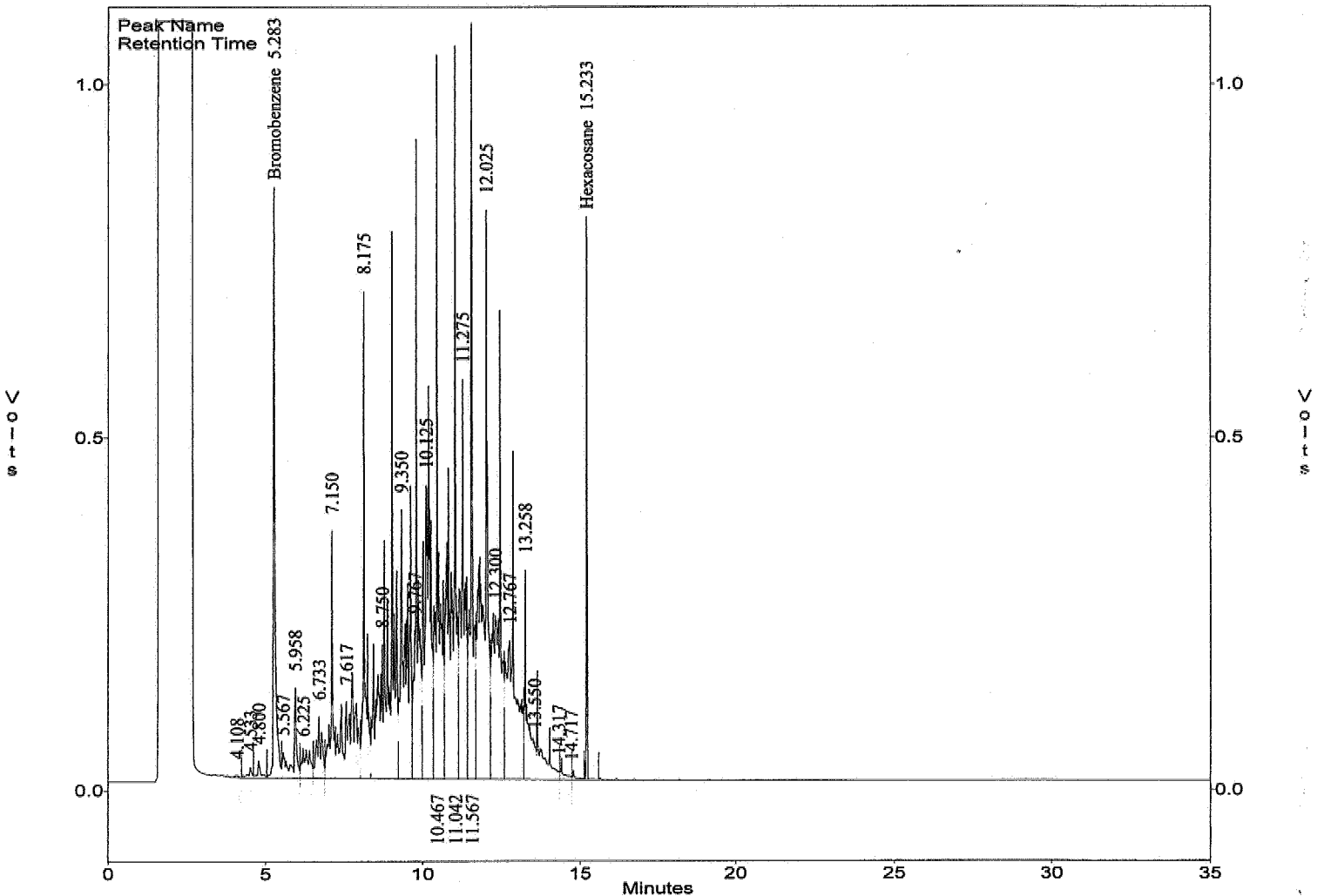
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.008
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3107 3000/220/
 Acquired : Jan 31, 2006 19:15:30
 Printed : Feb 01, 2006 09:35:51
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
4	Bromobenzene	5.283	3175897	14214.3	220.0
27	Hexacosane	15.233	1545839	28984.5	55.0
G1	Diesel (TOTAL)		77682664	26500.7	3000.0
G2	Diesel (C10-C24)		77324912	26460.6	3000.0
G3	Diesel (C10-C28)		77399448	26478.8	3000.0

c:\ezchrom\chrom\ta31\ta31.008 -- Channel A



DA
22/01/06

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 LFID & Datetime: TA05019A 01/05/06 23:55
 LFID & Datetime: TA05020A 01/06/06 00:37
 LFID & Datetime: TA05021A 01/06/06 01:19
 LFID & Datetime: TA05022A 01/06/06 02:01
 LFID & Datetime: TA05023A 01/06/06 02:43
 LFID & Datetime: TA05024A 01/06/06 03:25
 LFID & Datetime: TA05025A 01/06/06 04:07
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT							MEAN	%RSD
		1.00X	2.00X	5.00X	50.00X	100.00X	150.00X	300.00X		
JP5	10.00	✓19089	✓21129	✓20033	✓24716	✓24172	✓25573	✓26612	✓23046.2	✓12.7
5W30	10.00	✓33589	✓31968	✓34659	✓32099	✓30917	✓30603	✓31346	✓32168.8	✓4.6

J550A05M.MET

At
1/9/06

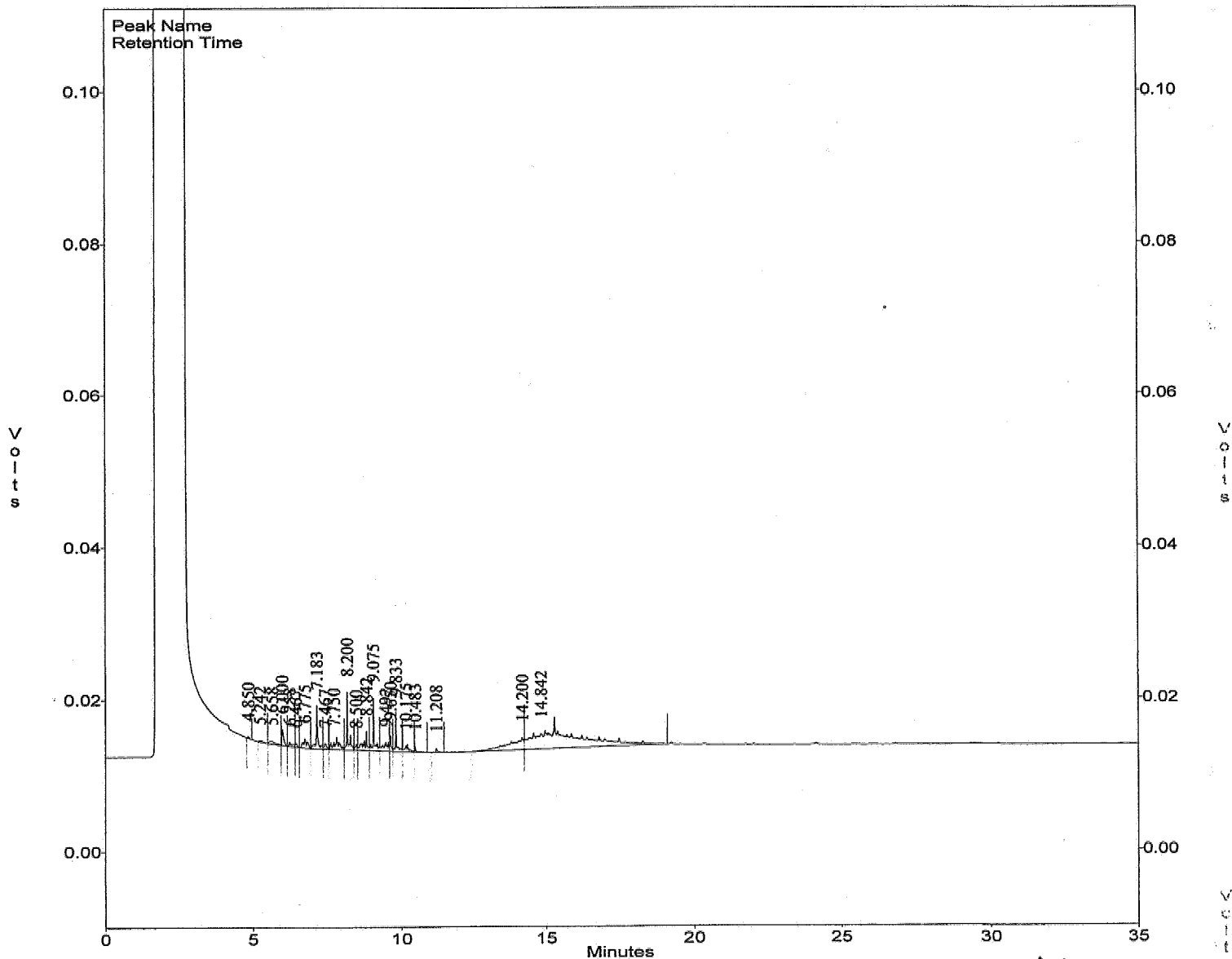
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.019 ✓
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M01 10PPM
 Acquired : Jan 05, 2006 23:55:57 ✓
 Printed : Jan 06, 2006 09:55:49
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		190889 ✓	23046.2	10.0
G2	5W30		335894 ✓	32168.8	10.0

c:\ezchrom\chrom\ta05\ta05.019 -- Channel A



Handwritten: 1/9/06
5023

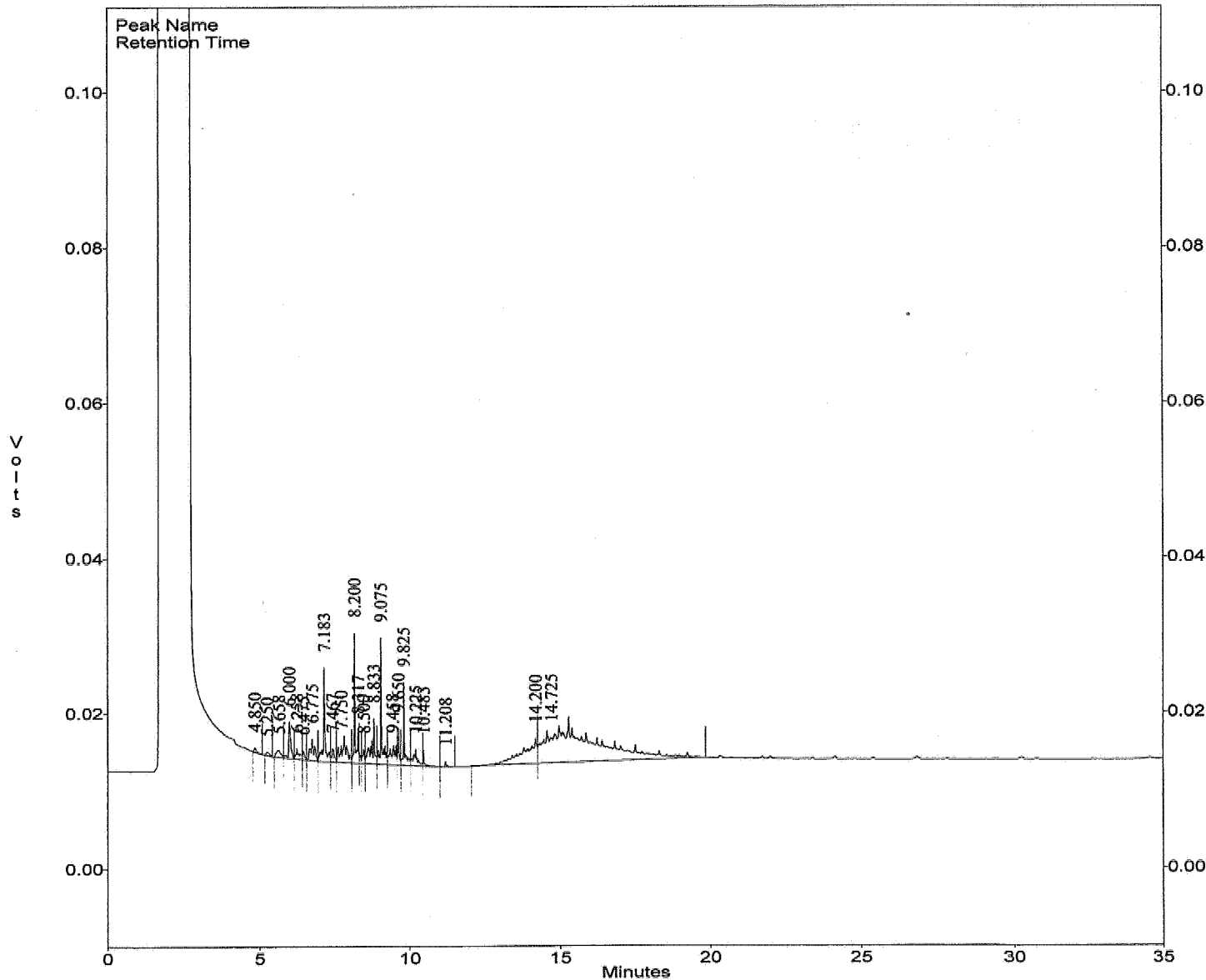
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.020
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M02 20PPM
Acquired : Jan 06, 2006 00:37:56
Printed : Jan 06, 2006 09:55:55
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		422586	23046.2	20.0
G2	5W30		639352	32168.8	20.0

c:\ezchrom\chrom\ta05\ta05.020 -- Channel A



AS
1/9/06
5024

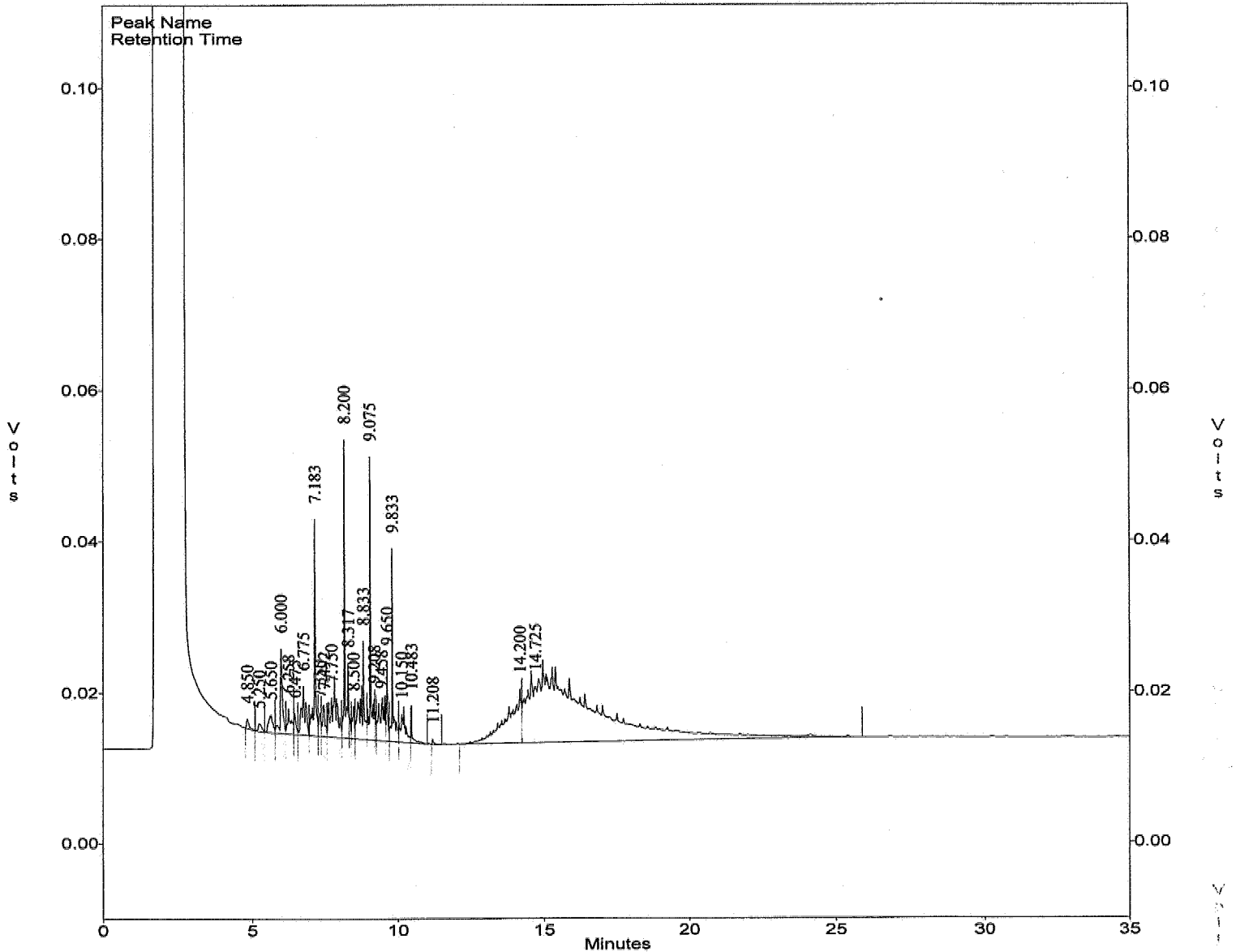
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.021
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M03 50PPM
Acquired : Jan 06, 2006 01:19:54
Printed : Jan 06, 2006 09:56:08
User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		1001658 ✓	23046.2	50.0
G2	5W30		1732935 ✓	32168.8	50.0

c:\ezchrom\chrom\ta05\ta05.021 -- Channel A



AS
5025/1/06

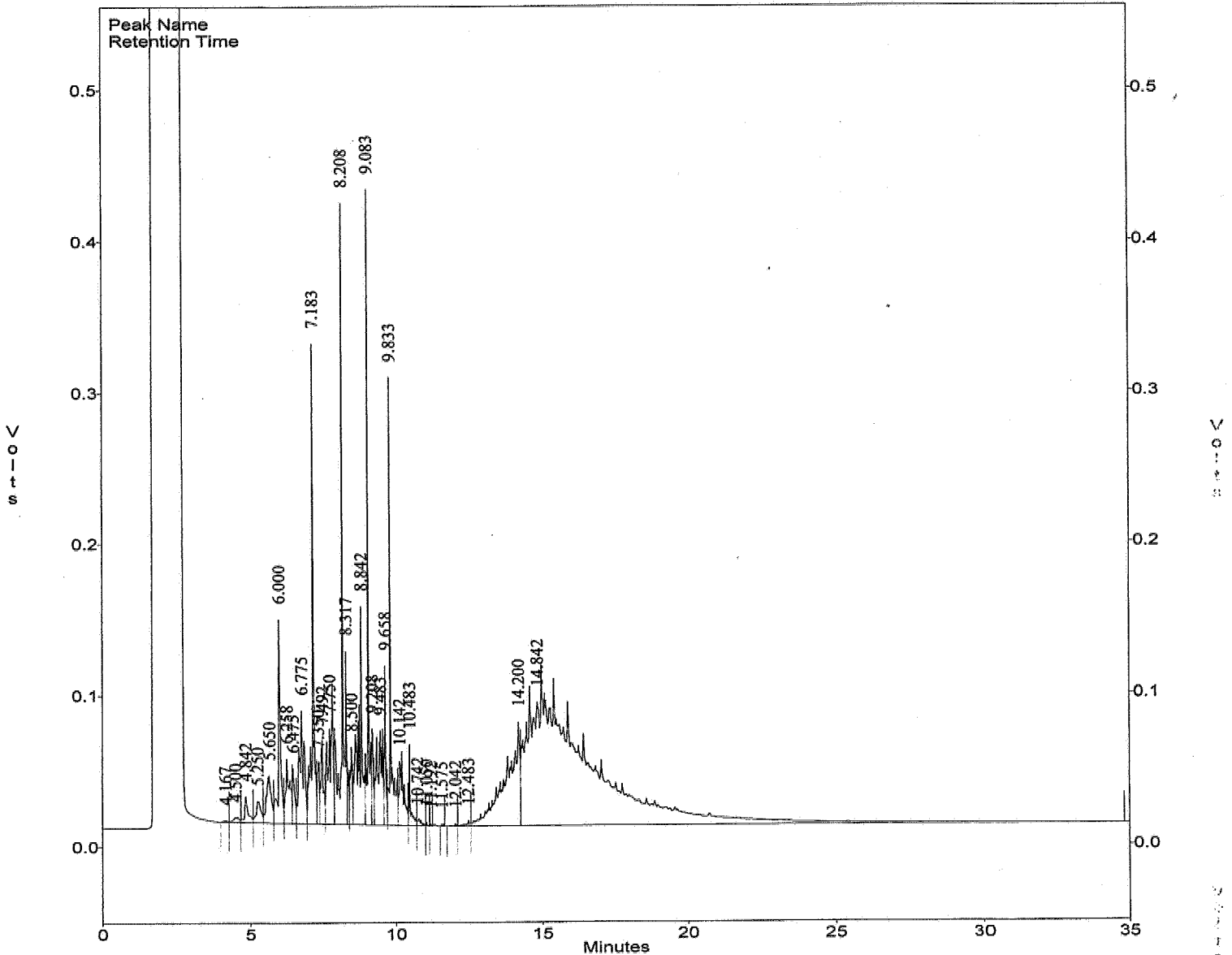
METHOD 8015 by GC/FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.022
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M04 500PPM
 Acquired : Jan 06, 2006 02:01:52
 Printed : Jan 06, 2006 09:56:41
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		12357981 ✓	23046.2	500.0
G2	5W30		16049524 ✓	32168.8	500.0

c:\ezchrom\chrom\ta05\ta05.022 -- Channel A



RA
 1/9/06
 5026

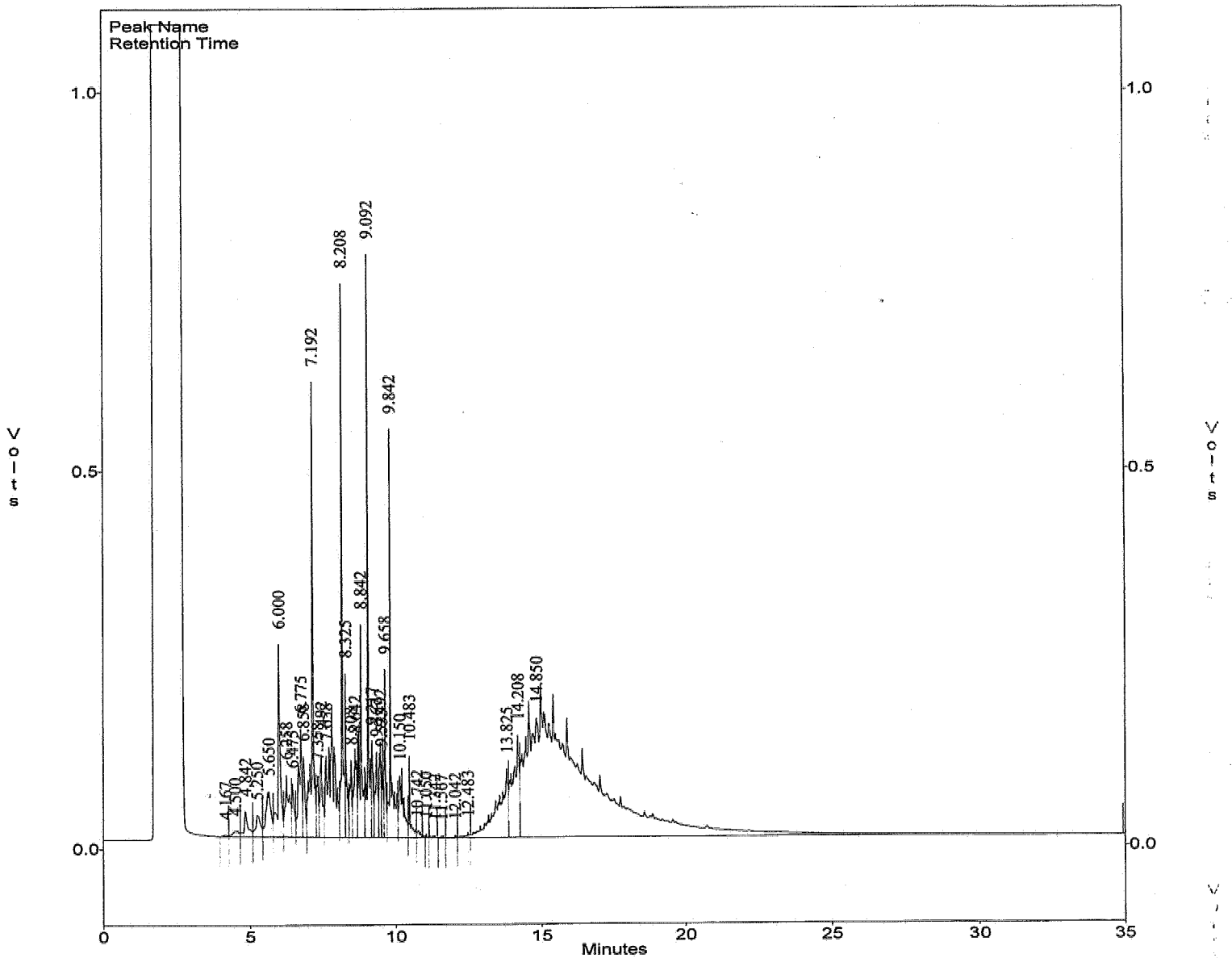
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.023
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M05 1000PPM
 Acquired : Jan 06, 2006 02:43:50
 Printed : Jan 06, 2006 09:57:19
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		24171588 ✓	23046.2	1000.0
G2	5W30		30917232 ✓	32168.8	1000.0

c:\ezchrom\chrom\ta05\ta05.023 -- Channel A



Handwritten signature
1/9/06
5027

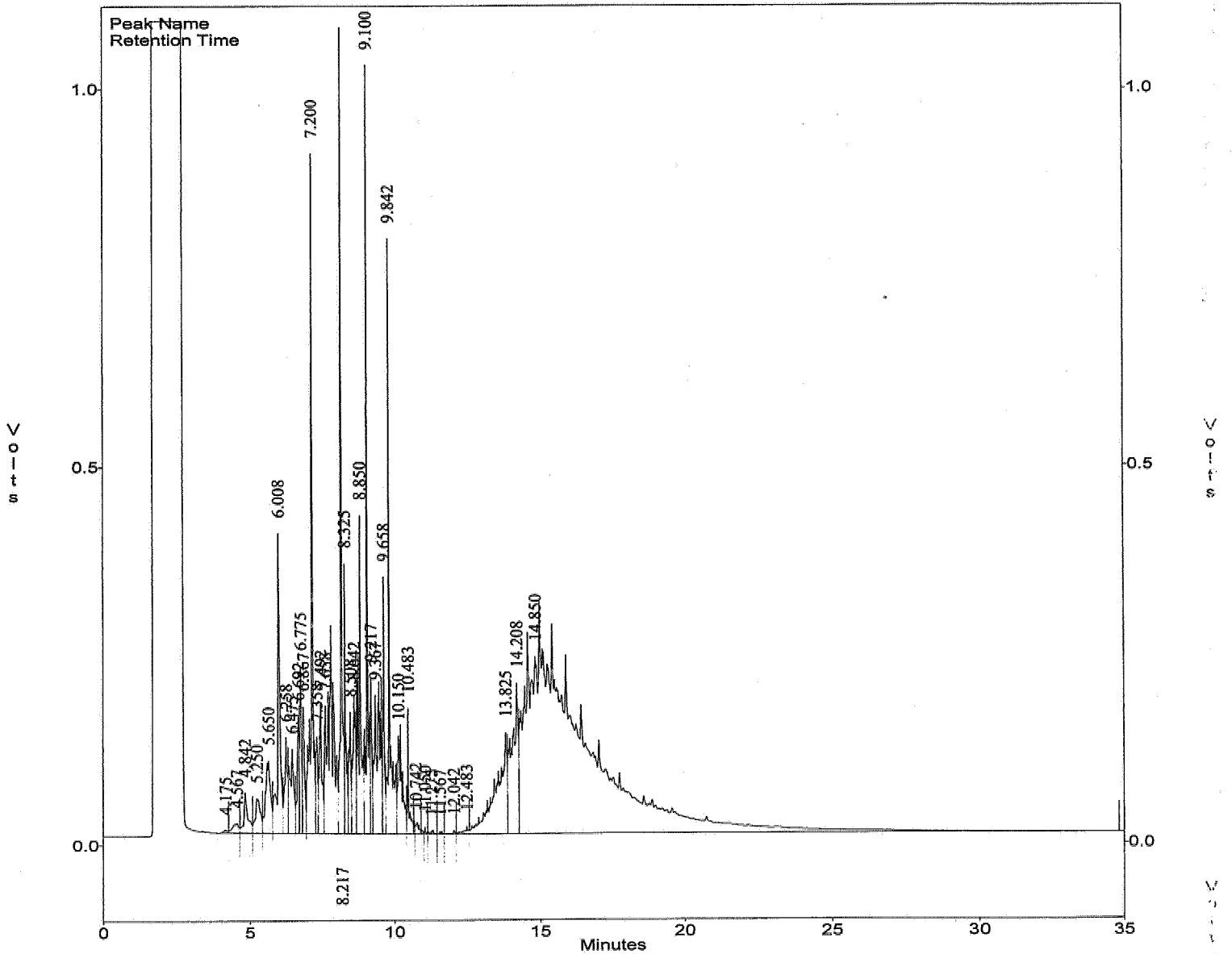
METHOD 8015 by GC/FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.024
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M06 1500PPM
 Acquired : Jan 06, 2006 03:25:48
 Printed : Jan 06, 2006 09:57:24
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		38358784	23046.2	1500.0
G2	5W30		45905100	32168.8	1500.0

c:\ezchrom\chrom\ta05\ta05.024 -- Channel A



AT 9/100
 5028

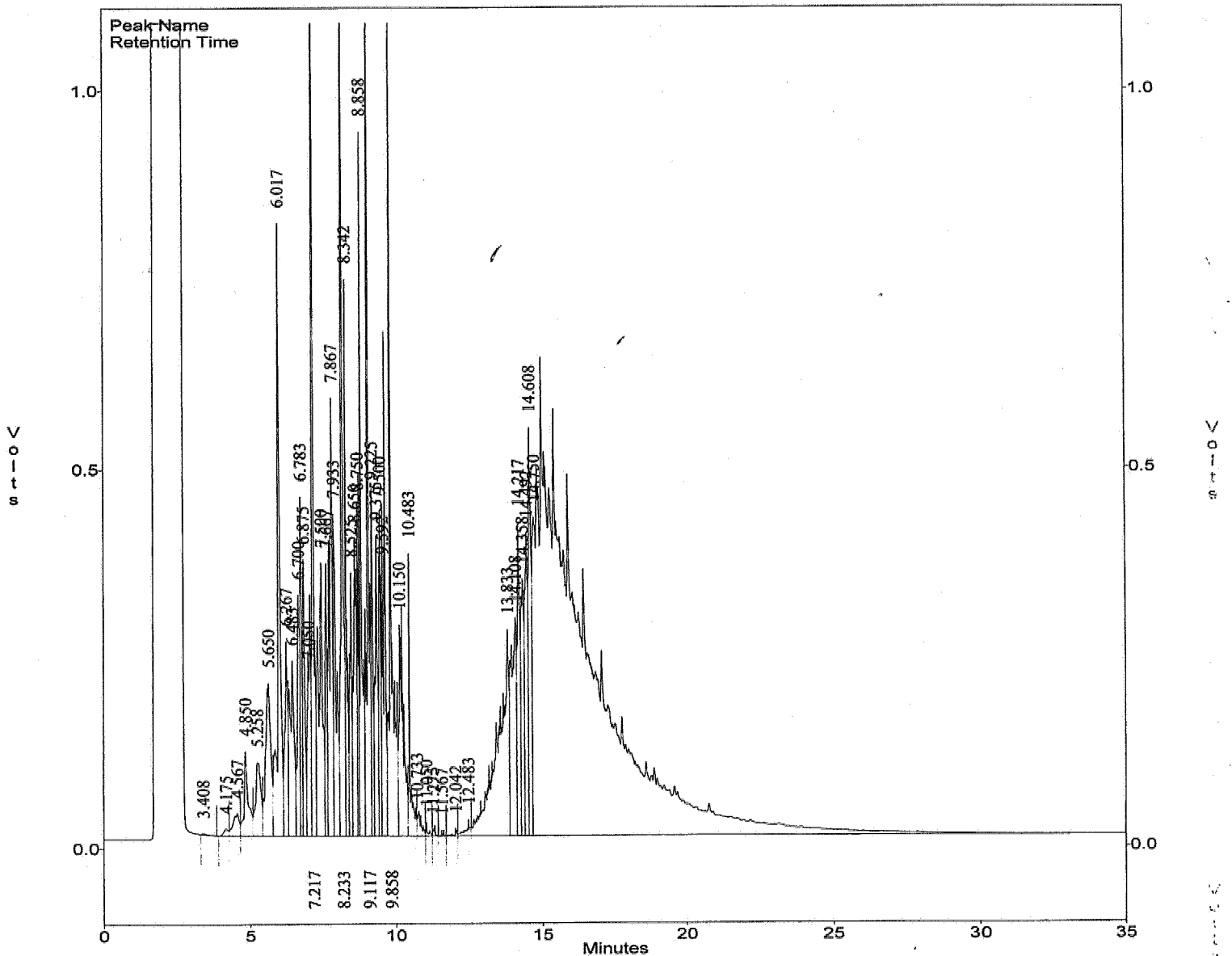
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.025
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M07 3000PPM
 Acquired : Jan 06, 2006 04:07:45
 Printed : Jan 06, 2006 09:57:28
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		79836656 ✓	23046.2	3000.0
G2	5W30		94039104 ✓	32168.8	3000.0

c:\ezchrom\chrom\ta05\ta05.025 -- Channel A



5029
 RA
 1/6/06

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TA31011A 01/31/2006 21:21
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	13255810	500.21	0		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	13131692	496.27	-1		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	13174570	497.55	-0		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.275	5.188	5.362	100.0	14214.3	1337667	94.11	-6		15
HEXACOSANE	15.225	14.892	15.558	25.0	28984.5	687118	23.71	-5		15

DS50A31.MET

RA
02/01/06
5001

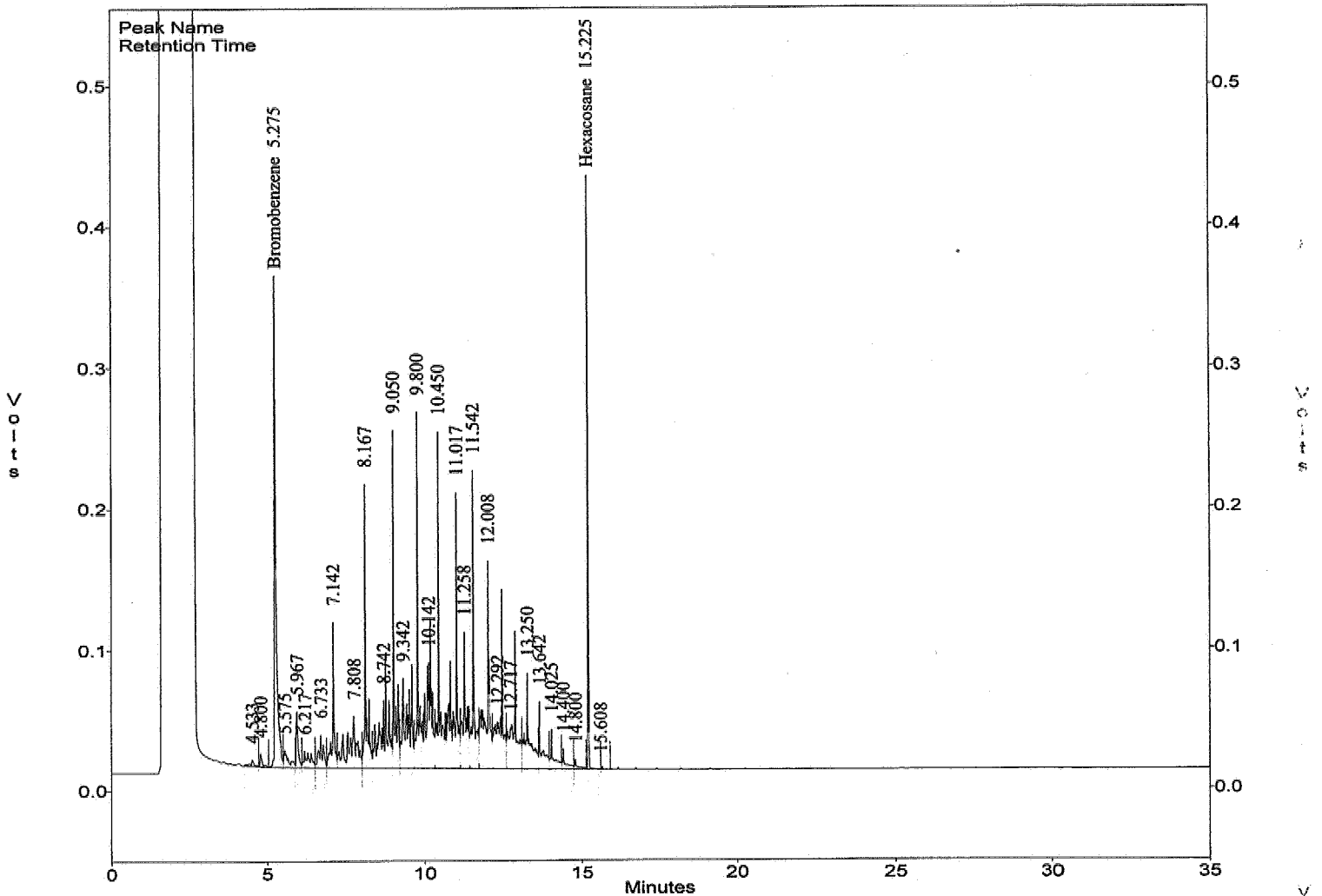
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.011
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : IDS50A3101 500PPM
 Acquired : Jan 31, 2006 21:21:44
 Printed : Feb 01, 2006 09:36:17
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.275	1337667	14214.3	94.1
28	Hexacosane	15.225	687118	28984.5	23.7
G1	Diesel (TOTAL)		13255810	26500.7	500.2
G2	Diesel (C10-C24)		13131692	26460.6	496.3
G3	Diesel (C10-C28)		13174570	26478.8	497.6

c:\ezchrom\chrom\ta31\ta31.011 -- Channel A



AS
02/01/06

5032

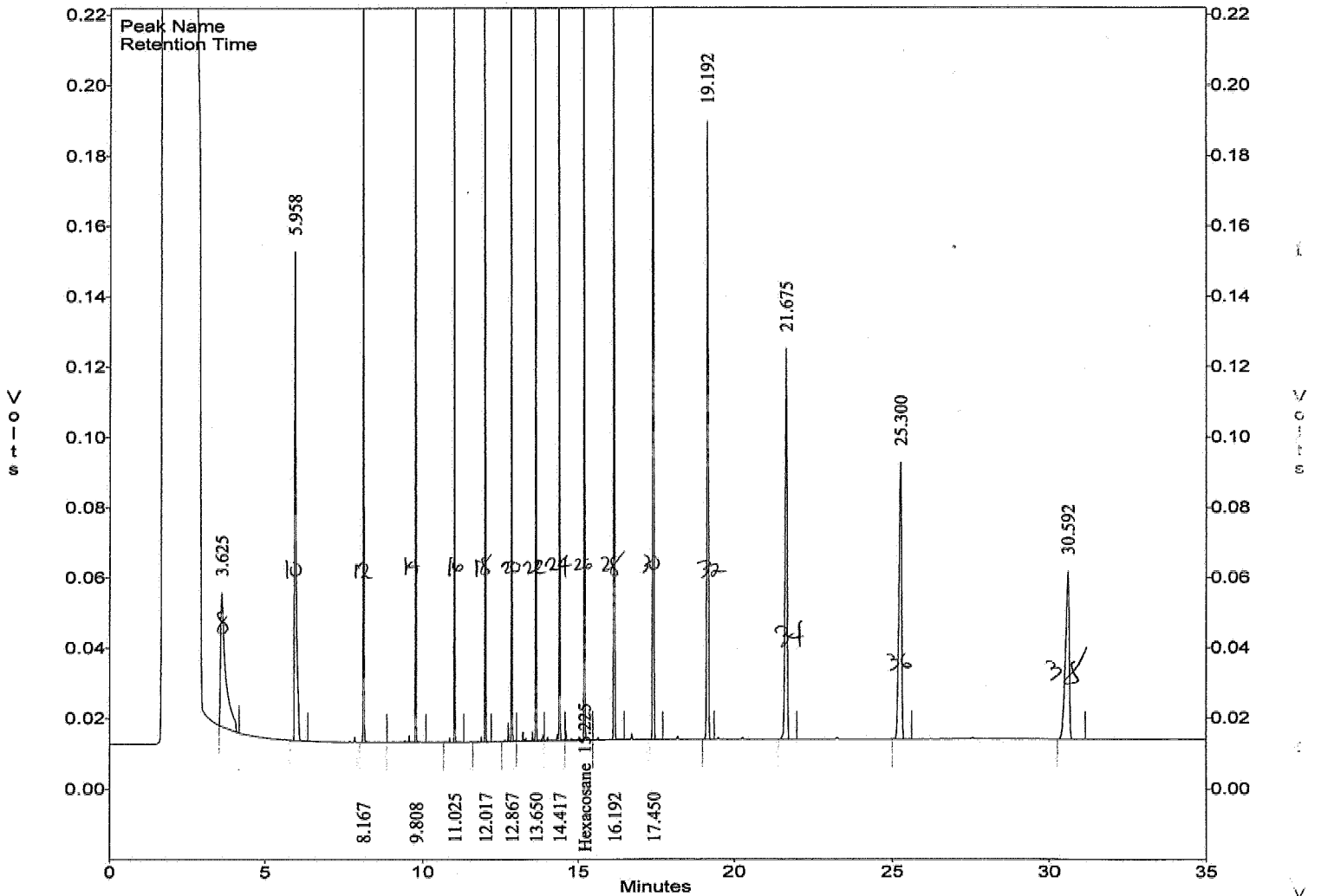
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.013
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : HC-CHAIN
 Acquired : Jan 31, 2006 22:45:44
 Printed : Feb 01, 2006 09:38:59
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Bromobenzene	5.283	0	0.0	0.0
10	Hexacosane	15.225	612551	28984.5	21.1
G1	Diesel (TOTAL)		7808933	26500.7	294.7
G2	Diesel (C10-C24)		4312145	26460.6	163.0
G3	Diesel (C10-C28)		4904687	26478.8	185.2

c:\ezchrom\chrom\ta31\ta31.013 -- Channel A



AT
02/01/06

5033

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TA05026A 01/06/2006 04:49
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JP5	0.000	0.000	0.000	500.0	23046.2	11649619	505.49	1		15
5W30	0.000	0.000	0.000	500.0	32168.8	16021303	498.04	-0		15

J550A05M.MET

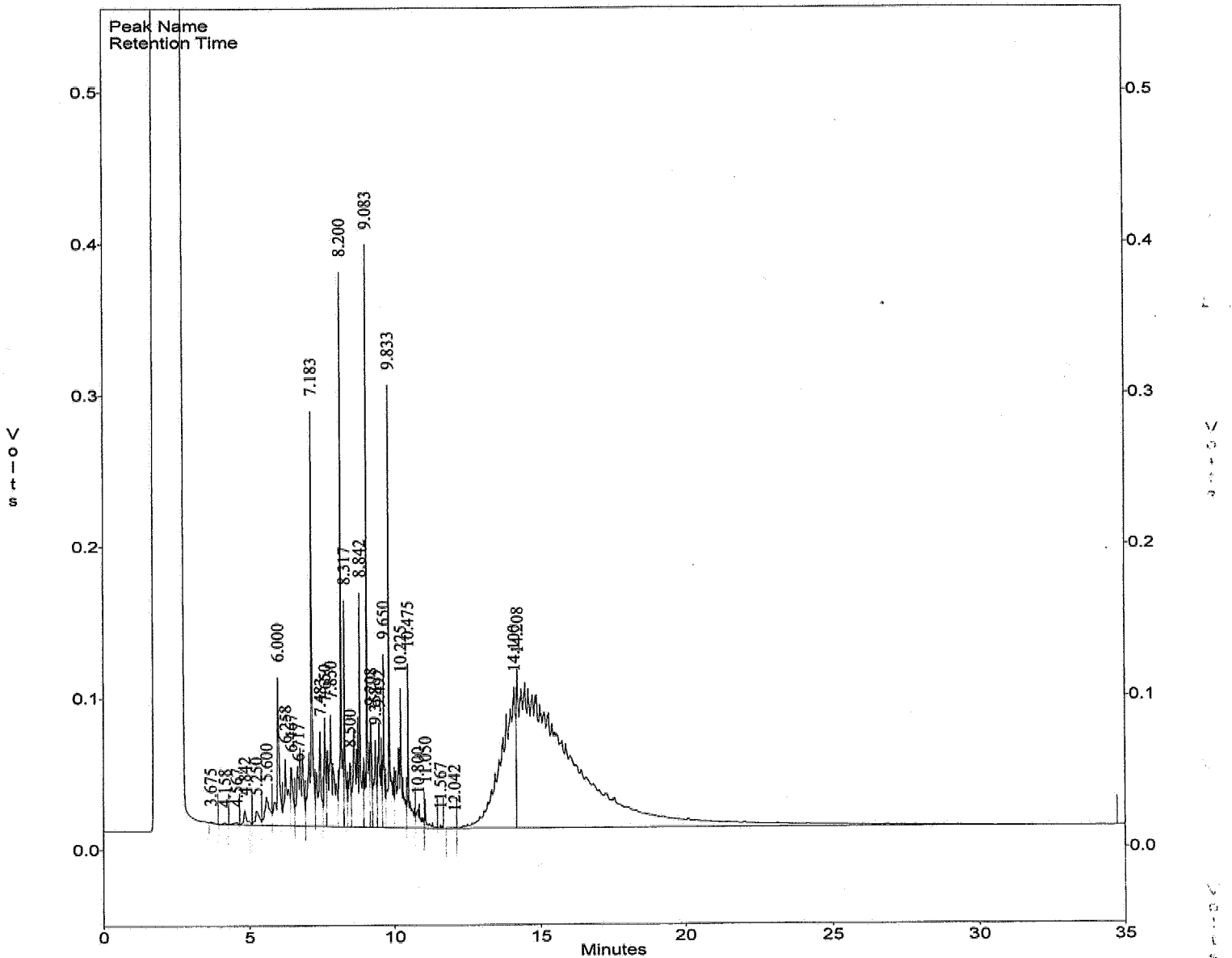
METHOD 8015 by GC/FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.026
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : IJ550A05M01 500PPM
 Acquired : Jan 06, 2006 04:49:39
 Printed : Jan 06, 2006 09:57:56
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		11649619	23046.2	505.5
G2	5W30		16021303	32168.8	498.0

c:\ezchrom\chrom\ta05\ta05.026 -- Channel A



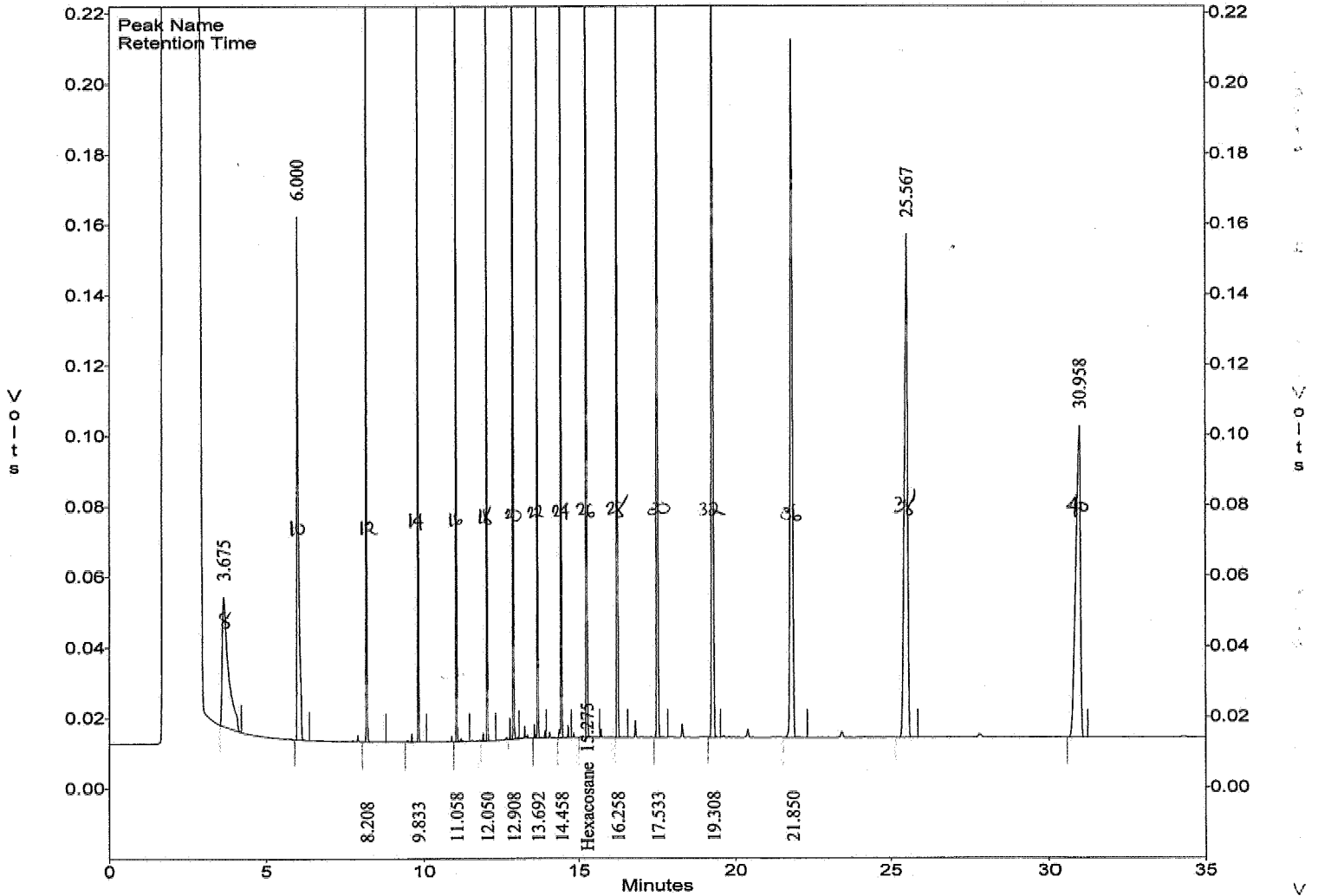
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.028
 Method : c:\ezchrom\methods\ds50k28.met
 Sample ID : HC-CHAIN
 Acquired : Jan 06, 2006 06:13:28
 Printed : Jan 06, 2006 09:49:23
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Bromobenzene	5.350	0	0.0	0.0
10	Hexacosane	15.275	785899	31441.2	25.0
G1	Diesel (TOTAL)		10840643	25617.3	423.2
G2	Diesel (C10-C24)		5027696	25569.5	196.6
G3	Diesel (C10-C28)		5789143	25586.1	226.3

c:\ezchrom\chrom\ta05\ta05.028 - Channel A



DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TC20004A 03/20/2006 13:35
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	15223950	574.47	15		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	15114713	571.22	14		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	15129331	571.38	14		15
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
BROMOBENZENE	5.192	5.105	5.279	100.0	14214.3	1369935	96.38	-4		15
HEXACOSANE	15.117	14.784	15.450	25.0	28984.5	822851	28.39	14		15

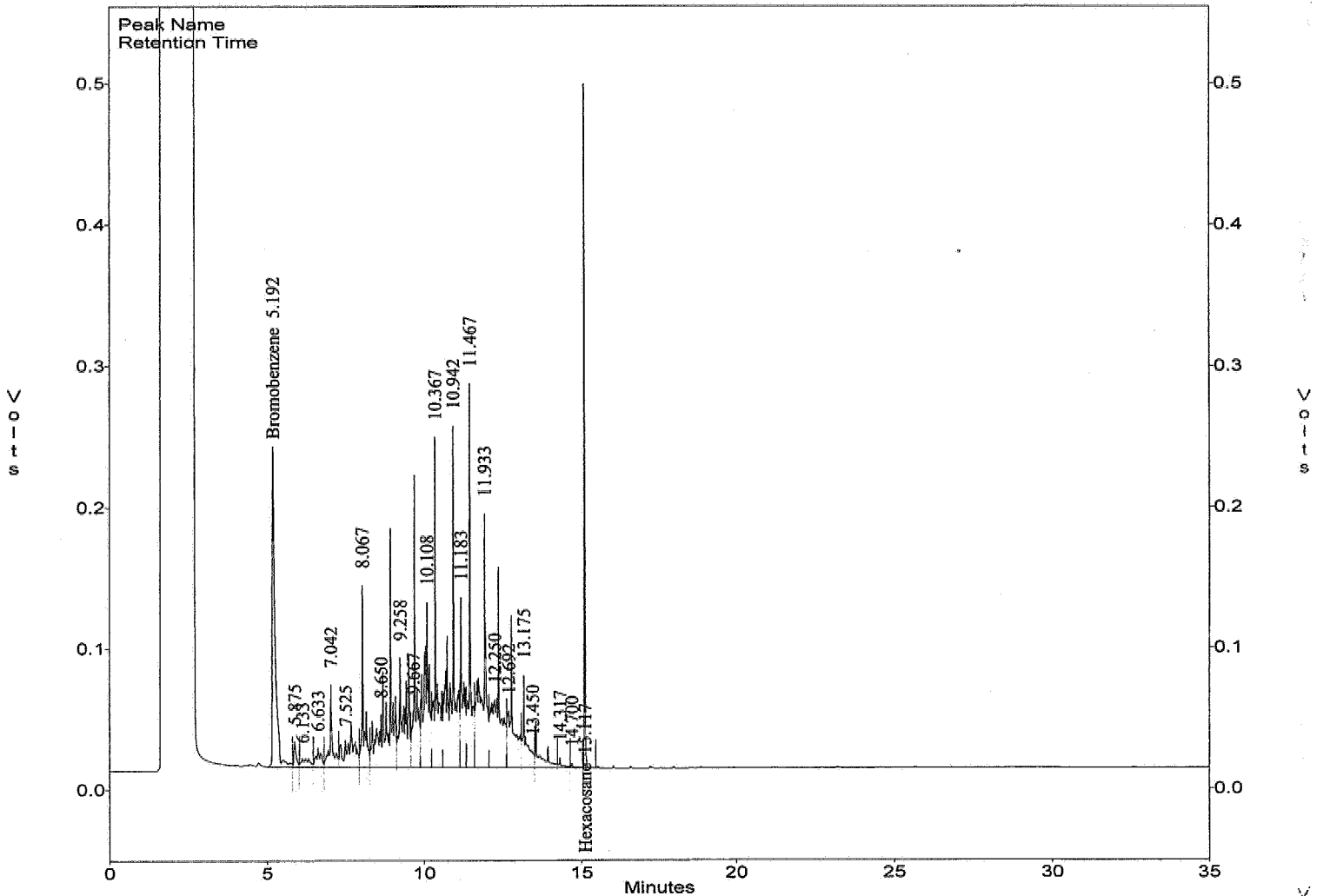
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.004
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : CDS50A31536 D500
 Acquired : Mar 20, 2006 13:35:44
 Printed : Mar 21, 2006 09:29:23
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.192	1369935	14214.3	96.4
23	Hexacosane	15.117	822851	28984.5	28.4
G1	Diesel (TOTAL)		15223950	26500.7	574.5
G2	Diesel (C10-C24)		15114713	26460.6	571.2
G3	Diesel (C10-C28)		15129331	26478.8	571.4

c:\ezchrom\chrom\tc20\tc20.004 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TC20005A 03/20/2006 14:17
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JP5	0.000	0.000	0.000	500.0	23046.2	11153328	483.95	-3		15
5W30	0.000	0.000	0.000	500.0	32168.8	15745428	489.46	-2		15

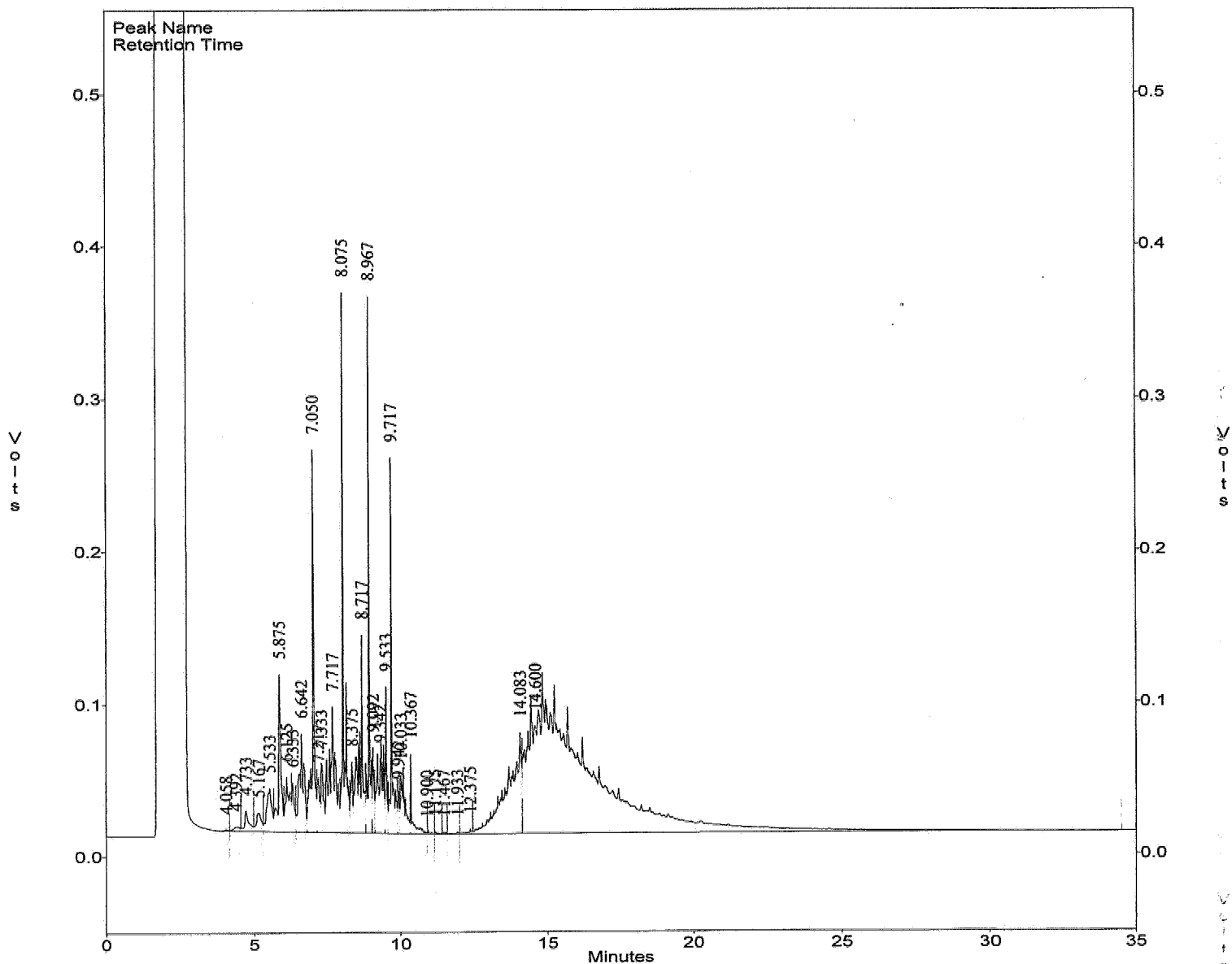
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.005
 Method : c:\ezchrom\methods\J550a05m.met
 Sample ID : CJ550A05M537 JP5/MO
 Acquired : Mar 20, 2006 14:17:43
 Printed : Mar 20, 2006 14:52:44
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		11153328	23046.2	484.0
G2	5W30		15745428	32168.8	489.5

c:\ezchrom\chrom\tc20\Tc20.005 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TC20017A 03/20/2006 22:41
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	14347084	541.39	8		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	14193006	536.38	7		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	14214289	536.82	7		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.200	5.113	5.287	100.0	14214.3	1256014	88.36	-12		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	740659	25.55	2		15

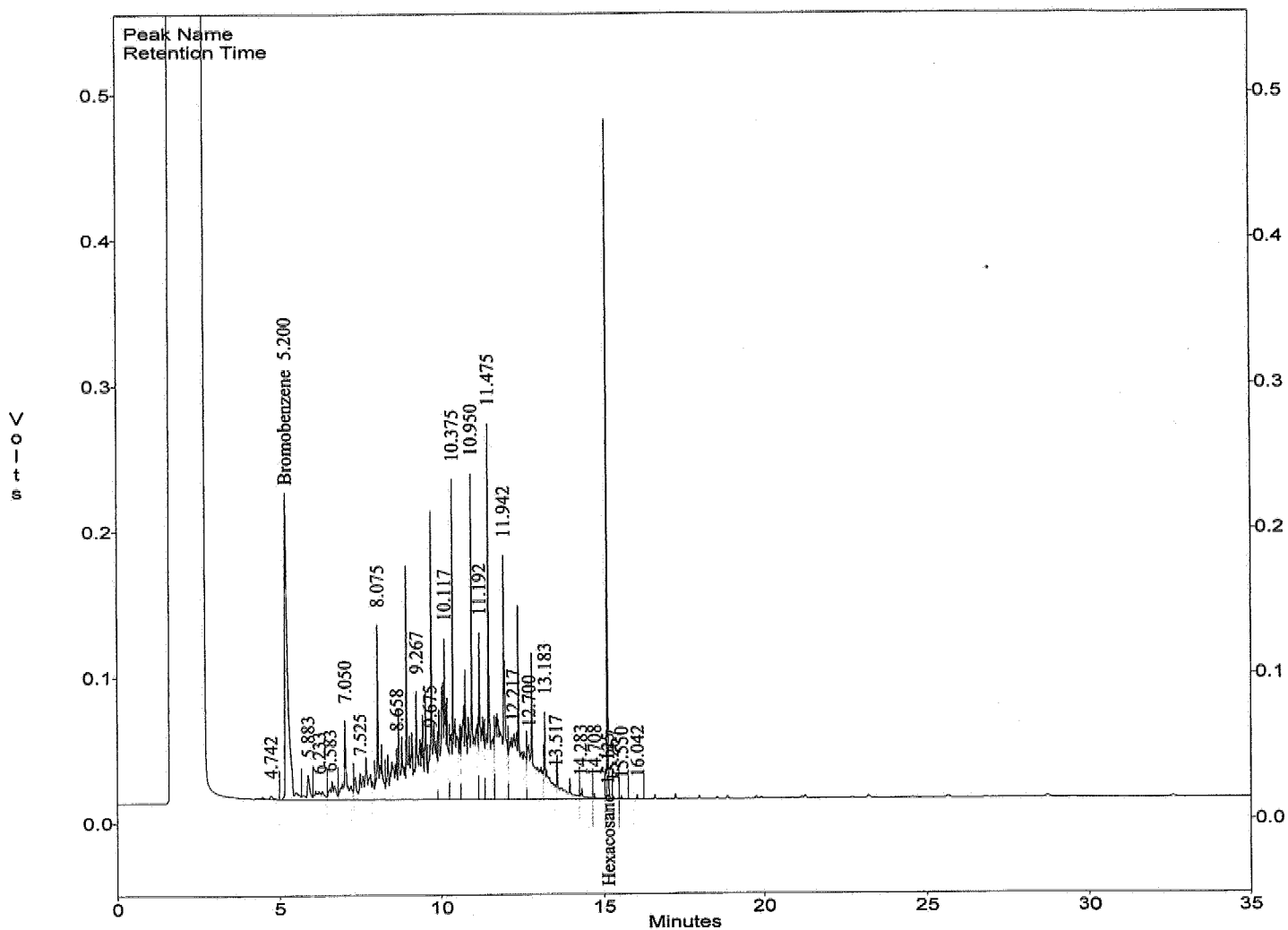
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.017
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : CDS50A31538 D500
 Acquired : Mar 20, 2006 22:41:49
 Printed : Mar 21, 2006 09:34:12
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.200	1256014	14214.3	88.4
24	Hexacosane	15.125	740659	28984.5	25.6
G1	Diesel (TOTAL)		14347084	26500.7	541.4
G2	Diesel (C10-C24)		14193006	26460.6	536.4
G3	Diesel (C10-C28)		14214289	26478.8	536.8

c:\ezchrom\chrom\tc20\tc20.017 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TC20018A 03/20/2006 23:23
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JP5	0.000	0.000	0.000	500.0	23046.2	11549974	501.17	0		15
5W30	0.000	0.000	0.000	500.0	32168.8	15440349	479.98	-4		15

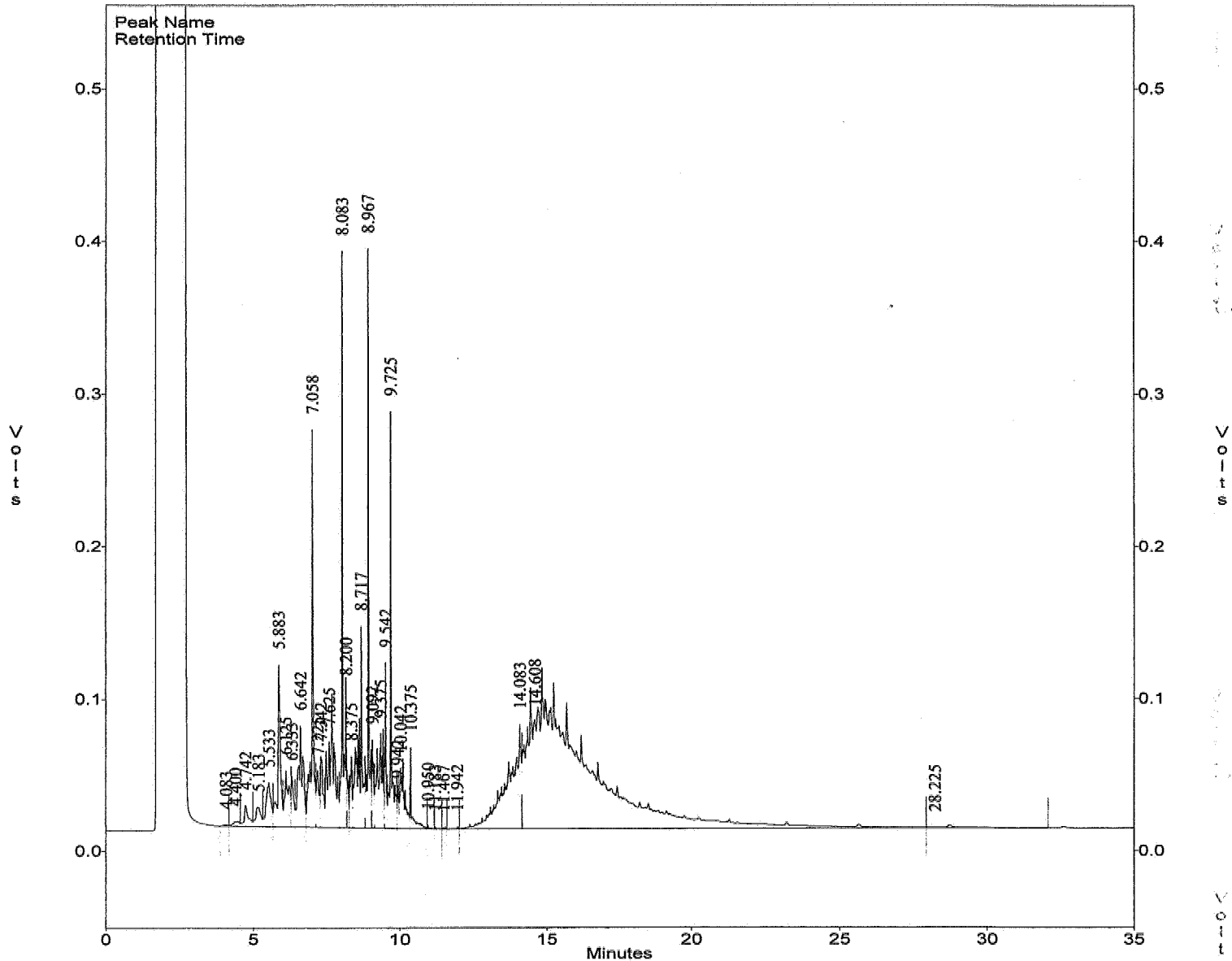
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.018
 Method : c:\ezchrom\methods\J550a05m.met
 Sample ID : CJ550A05M539 JP5/MO
 Acquired : Mar 20, 2006 23:23:42
 Printed : Mar 20, 2006 23:58:43
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		11549974	23046.2	501.2
G2	5W30		15440349	32168.8	480.0

c:\ezchrom\chrom\tc20\Tc20.018 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TC20030A 03/21/2006 07:45
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	12724171	480.14	-4		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	12589314	475.78	-5		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	12602339	475.94	-5		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.208	5.121	5.295	100.0	14214.3	1498204	105.40	5		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	824201	28.44	14		15

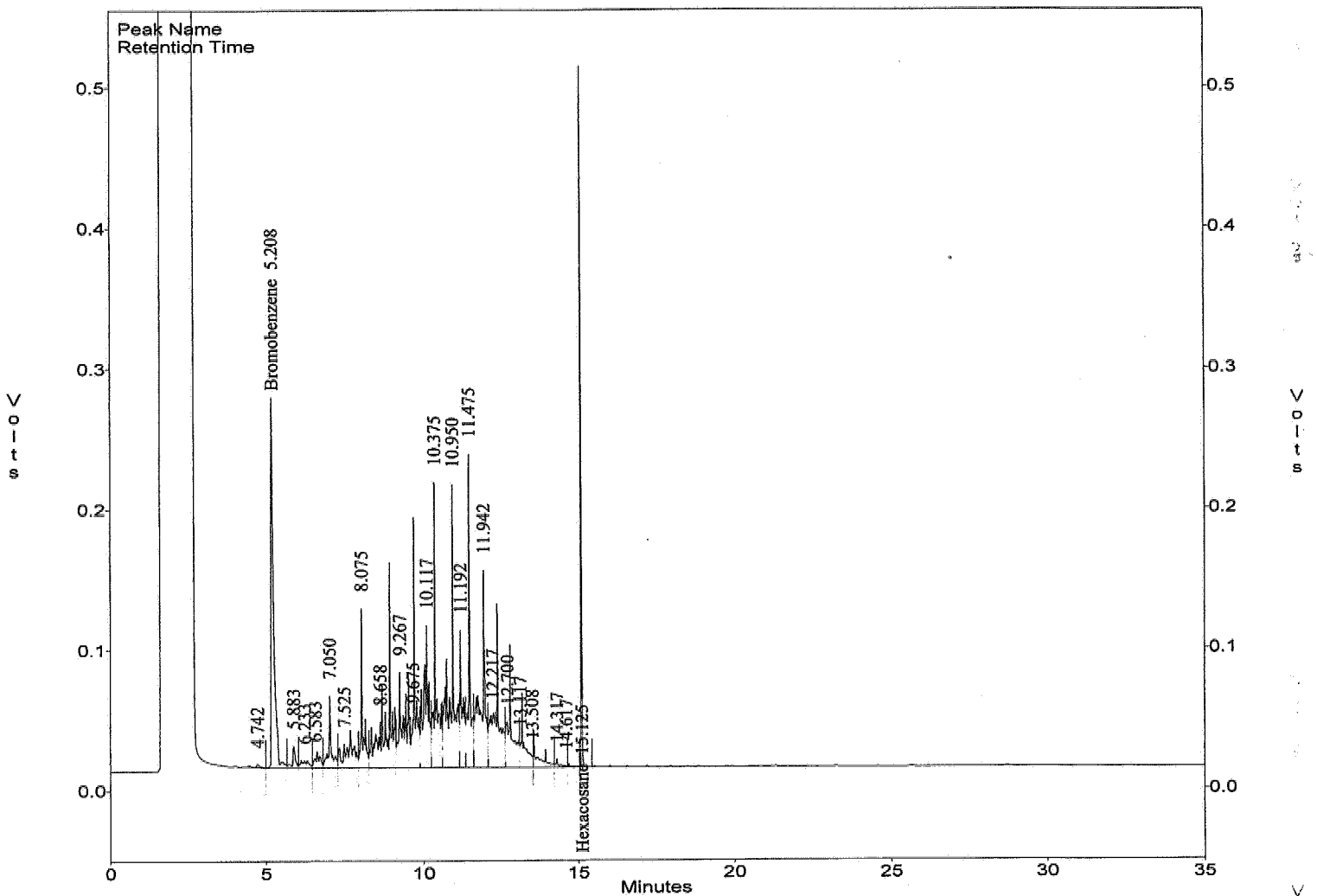
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.030
 Method : c:\ezchrom\methods\Ds50a31.met
 Sample ID : CDS50A31540 D500
 Acquired : Mar 21, 2006 07:45:01
 Printed : Mar 21, 2006 08:20:03
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.208	1498204	14214.3	105.4
24	Hexacosane	15.125	824201	28984.5	28.4
G1	Diesel (TOTAL)		12724171	26500.7	480.1
G2	Diesel (C10-C24)		12589314	26460.6	475.8
G3	Diesel (C10-C28)		12602339	26478.8	475.9

c:\ezchrom\chrom\tc20\Tc20.030 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TC20031A 03/21/2006 08:26
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JP5	0.000	0.000	0.000	500.0	23046.2	12533405	543.84	9		15
5W30	0.000	0.000	0.000	500.0	32168.8	15703274	488.15	-2		15

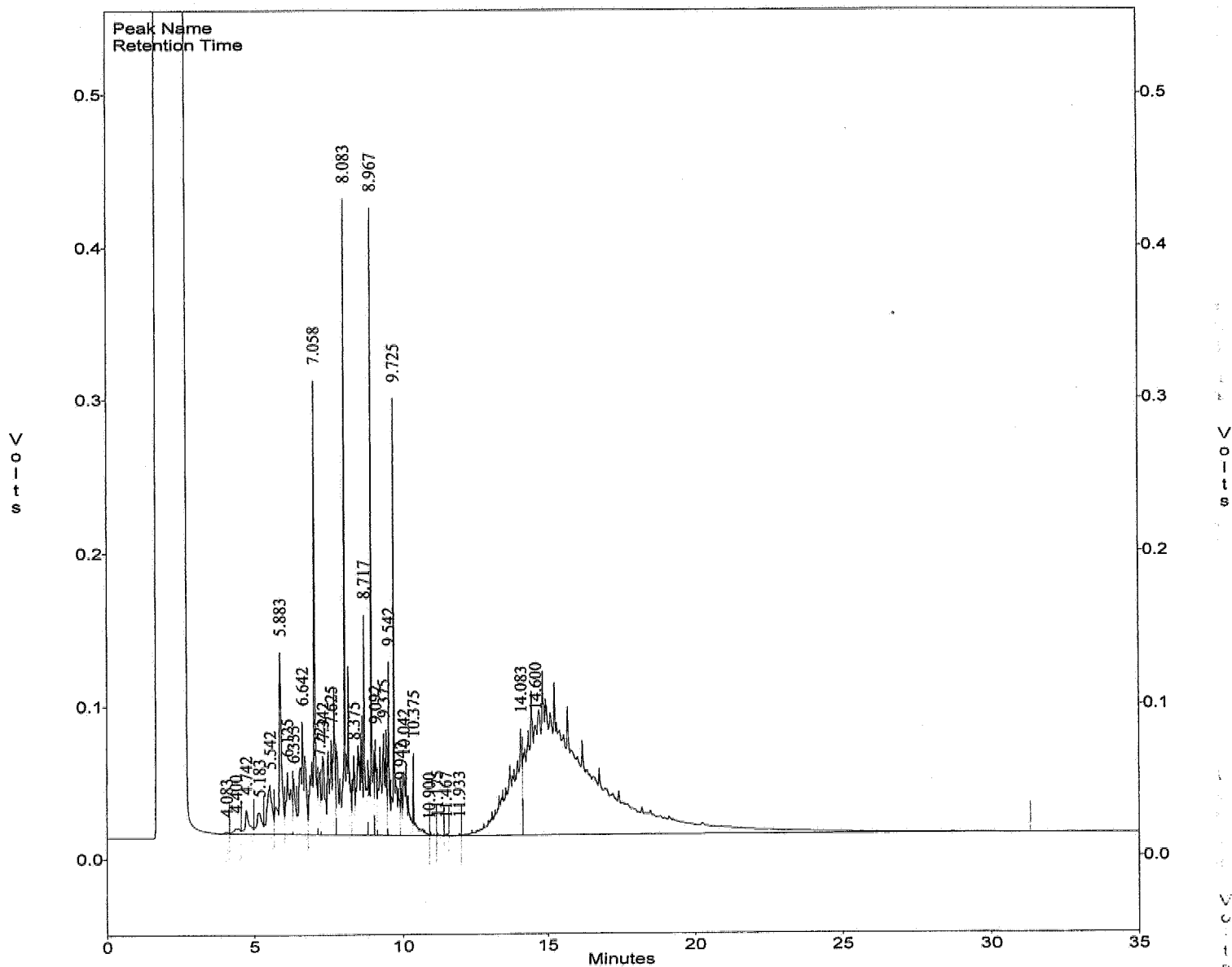
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.031
 Method : c:\ezchrom\methods\J550a05m.met
 Sample ID : CJ550A05M541 JP5/MO
 Acquired : Mar 21, 2006 08:26:49
 Printed : Mar 21, 2006 09:01:50
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		12533405	23046.2	543.8
G2	5W30		15703274	32168.8	488.2

c:\ezchrom\chrom\tc20\Tc20.031 -- Channel A



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3 Book # A50-021

Starting Date: 01-05-06 Time: 22:31 Ending Date: 01-06-06 Time: 07:37

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
	TA05-017 TEST					
	018	1B3DA233				
	019	U35DA05M01			10 RPM	
	020	02			20	
	021	03			50	
	022	04			500	
	023	05			1000	
	024	06			1500	
	025	07			3000	
	026	U35DA05M01			500	1 JP5 + 5W30 10W
	027	02			1500	↓
	028	HC-CHAIN				
	029	MeCl2				
	030	MeCl2				
NO DATA						

Instrument No: 50	
INITIAL CALIBRATION REFERENCE	
Diesel	ID
Motor oil	
JP 5	
JP5 + 5W30	U35DA05M
	01 05 06
Standards	
Name	ID
CH ₂ Cl ₂	45209
DCC	
JP5 + 5W30 10W	SS3B-07-01-1
JP5 10W	SS3B-06-35-3
5W30 10W	SS3B-06-69-3
Conc. (mg/L)	
	10,000
	50,000
	50,000
Electronic Data Archival	
Location	
Date	
<input type="checkbox"/> EZC_1_Diesel <input type="checkbox"/>	

Comments: _____

Analyzed By: SP

Disposed on: 01.06.06 By: 90

ANALYTICAL BATCH N/A

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTTE Revision No. 3 Book # A50-021

Starting Date: 01/31/06 Time: 4:20 Ending Date: 01/31/06 Time: 23:27

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	INITIAL CALIBRATION REFERENCE		
				S	W		Instrument No:	ID	Date
	TA31-001	1850A336				DSL (POM) SURR		50	
	'002	DS50A3101				bad injection	DS50A31	01/31/06	
	'003	02							
	'004	03				40/10			
	'005	04				60/15			
	'006	05				100/15			
	'007	06				140/15			
	'008	07				200/15			
	'009	01				5			
	'010	02				10			
	'011	1850A3101				900			
	'012	02				100/15; DSL 100			
	'013	HC-CHAIN				140/15			
	'014	MeCl2							
ANALYTICAL BATCH N/A									

Name		ID	Conc. (mg/L)
CH ₂ Cl ₂		45257	pure
DCC			
DSL 1 GAL			5.3000
T SURR		5536-07-04-2	2015.2015
DSL 100		553C-07-03-3	9000
Electronic Data Archival			
Location		Date	
<input type="checkbox"/> EZC_1_Diesel			
<input type="checkbox"/>			
Comments:			
Analyzed By: <u>g0</u>			
Disposed on: <u>02/01/06</u> By: <u>g0</u>			

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3

Starting Date: 03/20/06 Time: 12:11

Ending Date: 03/21/06

Time: 04:16

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
	TC20001	TEST				
	.002	18WDC53L				
	.003	DLG TEST				
	.004	COSD0A31538				
	.005	CUSDA00M1539				D800
DSC01TS	.006	DSC0175R	1	✓		JPS/SW30; SUD PPM
	.007	✓ L				
	.008	06C174.a				
	.009	03				
	.010	02				
	.011	02M				
	.012	025				
DSC01SN	.013	DSC01SN B				
	.014	C				
	.015	B				
	.016	COSD0A31538				D800; not evaluated
	.017	COSD0A31538				D800
DSC01SN	.018	CUSDA00M1539				JPS/SW30; SUD PPM
	.019	06C119.02	1			
	.020	06C115.06				
	.021	08				
	.022	10				
	.023	12				
	.024	14				
DSC014S	.025	06C108.09				99 03.21.06

ANALYTICAL BATCH COSD0A31536

INITIAL CALIBRATION REFERENCE			Instrument No:	50
Diesel	ID	Date		
D800	DSS0A31	7/3/06		
Motor oil				
JPS/SW30	USSDA USM	01-05-08		
Standards				
Name	ID	Conc. (mg/L)		
CH ₂ Cl ₂	45057	pure		
DCC 12L	SSXC 07-10-1	SUD		
JPS/SW30	SSXC-07-09-3	SUD		
Electronic Data Archival				
Location			Date	
<input type="checkbox"/> EZC_1_Diesel				
<input type="checkbox"/>				

Comments:

Analyzed By: GO

Disposed on: 03.21.06

By: GO

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3 Book # A50-023

Starting Date: 03-21-08 Time: 04:58 Ending Date: 03-21-08 Time: 16:08

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	Instrument No:	50				
				S	W							
DSC0145	TC20.026	06 C108-08	1	✓			DSC0145	07-31-06				
	.027	12	2	✓	571ML							
	.028	08T										
	.029	1800C370			DSC0							
	.030	C2550A31540										
	.031	C2550A05M541			JPS/SW30; 500 PPM							
	.032	26 C115-16	1	✓								
	.033	18										
	.034	20										
	.035	23										
DSC015W	.036	06C123-03				Standards	Name	ID	Conc. (mg/L)			
	.037	06C115-02								CH ₂ Cl ₂	4257	none
	.038	02M								DCC DL	6536-07-10-1	500
	.039	025								JPS/SW30DL	6536-07-09-3	500
	.040	04										
	.041	02M										
	.042	02M										
	.043	025										
	.044	04										
	.045	02M										
ANALYTICAL BATCH C2550A31536												

Comments:

Analyzed By: JP

Disposed on: 03-21-08

By: JP

EXTRACTION LOGS

EXTRACTION LOG FOR TPH

SOP EMAX-3550 Rev. No. 1 EMAX-3520 Rev. No. 1 EMAX-LUFT E Rev. No. 1 EMAX-3540 Rev. No. 9 EMAX-3510 Rev. No. 1

Matrix: WATER Start Date: 3/16/06 Time: 15:30 End Date: 3/17/06 Time: 9:30 Book # EDS-026

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g ml)	Extract Volume (ml)	Silica Gel Clean-up	Notes	Standards	ID	Lo# / ID	Amount Added (ml)
01	DSC015 - WB	NA	1000	10			Surrogate	5530-07-04-1		1.0
02	- WL		1000	10			LCS/MS	5530-07-04-3		1.0
03	- WC		1000	10			Reagent			
04	06C115 - 02		1020	10		dark yellow soh.	CH ₂ Cl ₂	45257		
05	- 02M		1060	10		yellow soh.	Na ₂ SO ₄	45045		
06	- 02S		1060	10		light yellow soh.	HCl	45105		
07	- 04		1030	10			Silica Sand	-		
08	- 06		1020	10				TUNING		
09	- 08		1030	10			Sonicator #	Reading		
10	- 10		1050	10				N/A		
11	- 12		1060	10						
12	- 14		1050	10		light yellow soh.				
13	- 16		1040	10		yellow soh.				
14	- 18		1030	10			Concentrator Water Bath Temp. (C)			
15	- 20		980	10			1	35	35	
16	- 23		1000	10		dark yellow soh.	2	35	35	
17	06C119 - 02		1060	10			3	35	35	
18	06C123 - 03	↓	960	10			4			
19							5			
20							6			
21							Comments: Test thermometer = T ₁			
22							Prepared By: JM / AB Standard Added By: JM			
23							Witnessed By: AB Checked By: ML			
24							Extract Received by: JP 03-20-06 Extract Location: SE06-07			
25							Disposal Date:			
26							Disposed By:			
27							This page is checked during data review.			

PREPARATION BATCH + DSC015 W

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ALCOHOLS BY GC

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C119

METHOD M8015 ALCOHOLS BY GC

Two (2) water samples were received on 03/14/06 for Alcohols by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Water samples were not preserved.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

No sample was requested for spike.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ALCOHOLS BY GC

Client : ENSR
Project : UPGRADE INVESTIGATION, TRONOX
SDG NO. : 06C119
Instrument ID : GCT043

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Date/Time	Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	MEC009WB	1	NA	03/17/0608:57	03/17/0608:57	DC17003A	DC17002A	MEC009W	Method Blank
LCS1W	MEC009WL	1	NA	03/17/0609:12	03/17/0609:12	DC17004A	DC17002A	MEC009W	Lab Control Sample (LCS)
LCD1W	MEC009WC	1	NA	03/17/0609:29	03/17/0609:29	DC17005A	DC17002A	MEC009W	LCS Duplicate
TR-10A	C119-01	1	NA	03/17/0609:45	03/17/0609:45	DC17006A	DC17002A	MEC009W	Field Sample
PUMP BLANK	C119-02	1	NA	03/17/0610:00	03/17/0610:00	DC17007A	DC17002A	MEC009W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: 03/13/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/14/06
Batch No. : 06C119 Date Extracted: 03/17/06 09:45
Sample ID: TR-10A Date Analyzed: 03/17/06 09:45
Lab Samp ID: C119-01 Dilution Factor: 1
Lab File ID: DC17006A Matrix : WATER
Ext Btch ID: MEC009W % Moisture : NA
Calib. Ref.: DC17002A Instrument ID : GCT043
=====

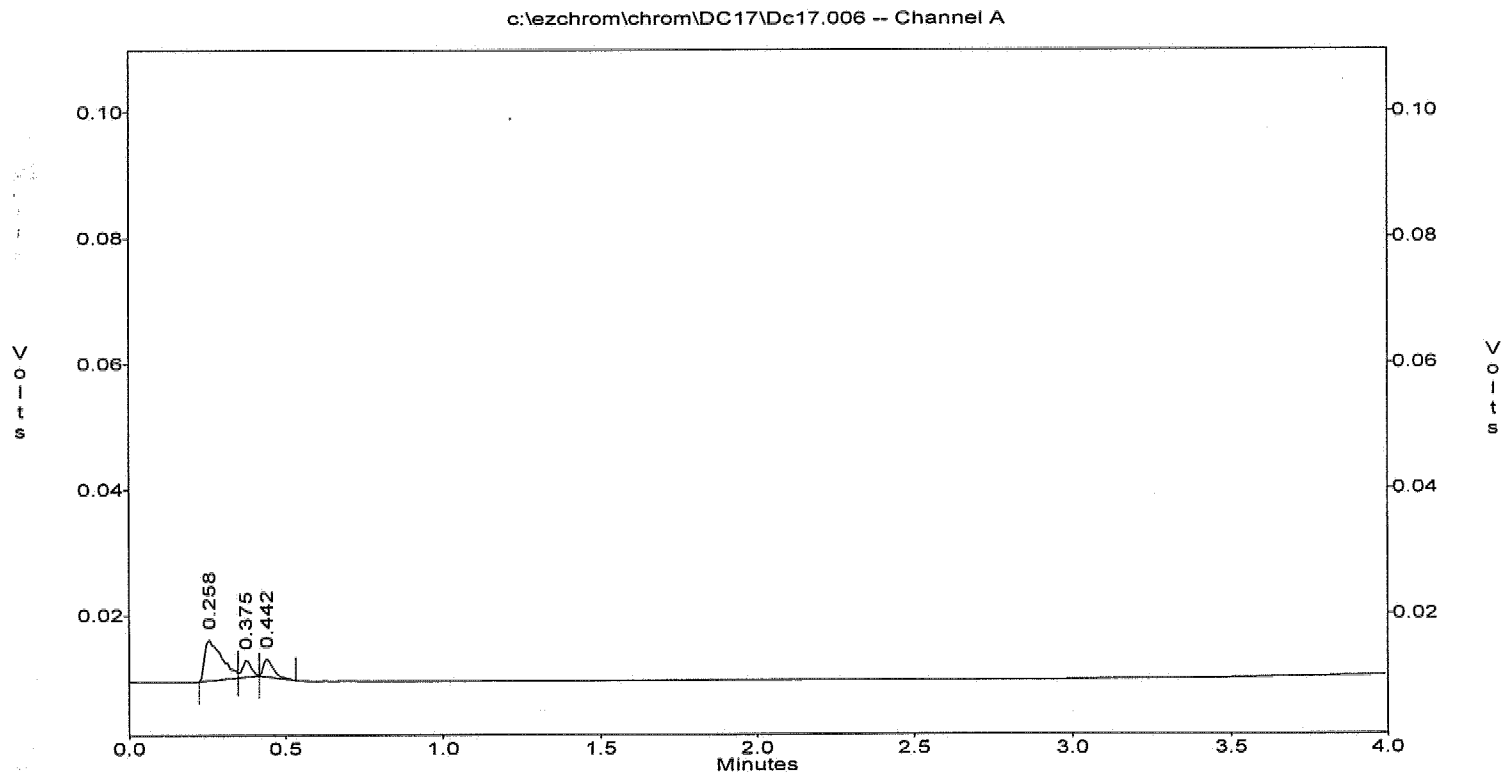
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.006
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C119-01
Acquired : Mar 17, 2006 09:45:16
Printed : Mar 17, 2006 09:49:17
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0



METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: 03/13/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/14/06
Batch No. : 06C119 Date Extracted: 03/17/06 10:00
Sample ID: PUMP BLANK Date Analyzed: 03/17/06 10:00
Lab Samp ID: C119-02 Dilution Factor: 1
Lab File ID: DC17007A Matrix : WATER
Ext Btch ID: MEC009W % Moisture : NA
Calib. Ref.: DC17002A Instrument ID : GCT043
=====

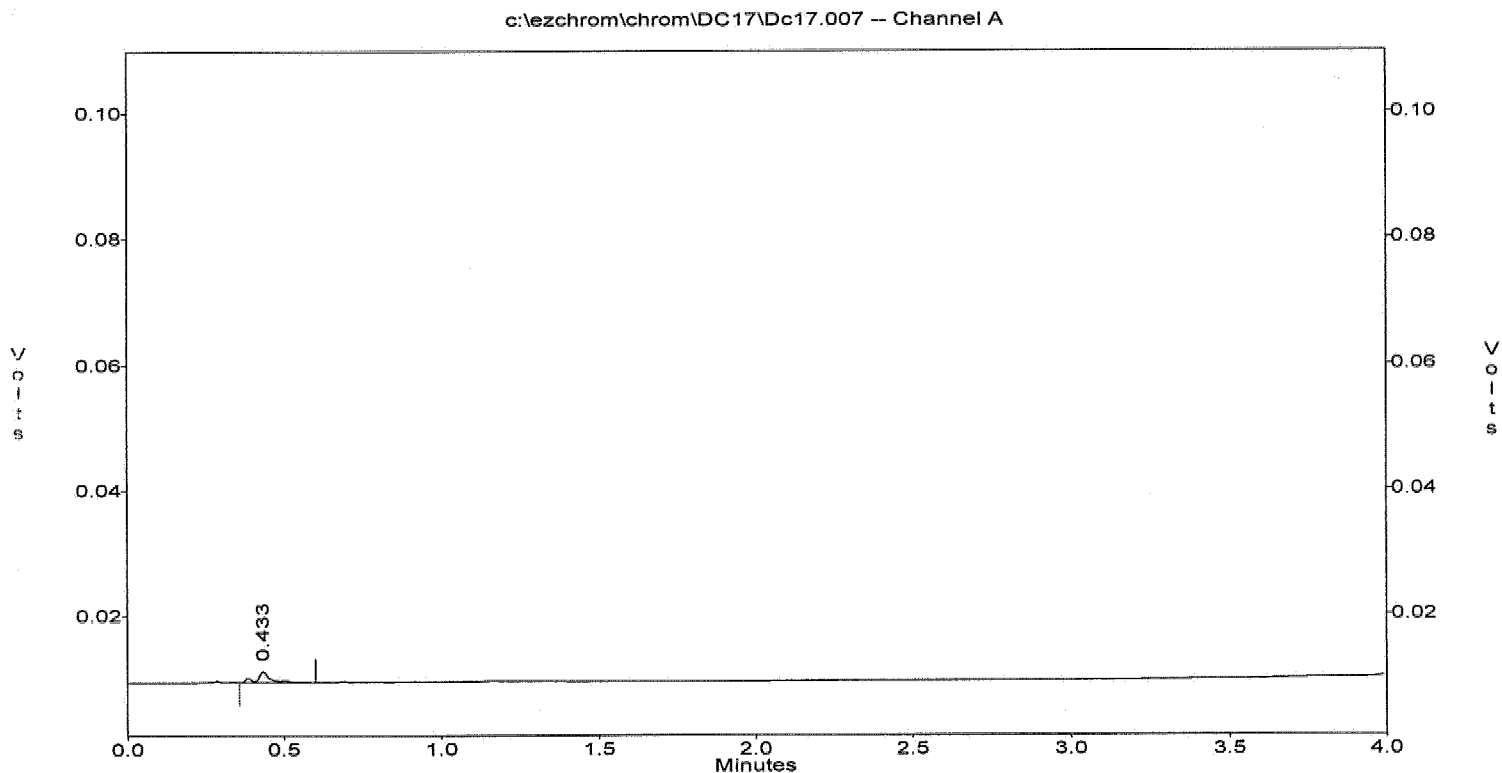
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.007
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C119-02
Acquired : Mar 17, 2006 10:00:44
Printed : Mar 17, 2006 10:04:45
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0



QC SUMMARIES

METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: NA
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/17/06
Batch No. : 06C119 Date Extracted: 03/17/06 08:57
Sample ID: MBLK1W Date Analyzed: 03/17/06 08:57
Lab Samp ID: MEC009WB Dilution Factor: 1
Lab File ID: DC17003A Matrix : WATER
Ext Btch ID: MEC009W % Moisture : NA
Calib. Ref.: DC17002A Instrument ID : GCT043
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD M8015

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: MEC009WB MEC009WL MEC009WC
LAB FILE ID: DC17003A DC17004A DC17005A
DATE EXTRACTED: 03/17/0608:57 03/17/0609:12 03/17/0609:29 DATE COLLECTED: NA
DATE ANALYZED: 03/17/0608:57 03/17/0609:12 03/17/0609:29 DATE RECEIVED: 03/17/06
PREP. BATCH: MEC009W MEC009W MEC009W
CALIB. REF: DC17002A DC17002A DC17002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Methanol	ND	10	10	100	10	10.3	103	3	60-130	30
Ethanol	ND	10	9.05	91	10	8.58	86	5	60-130	30

QC DATA

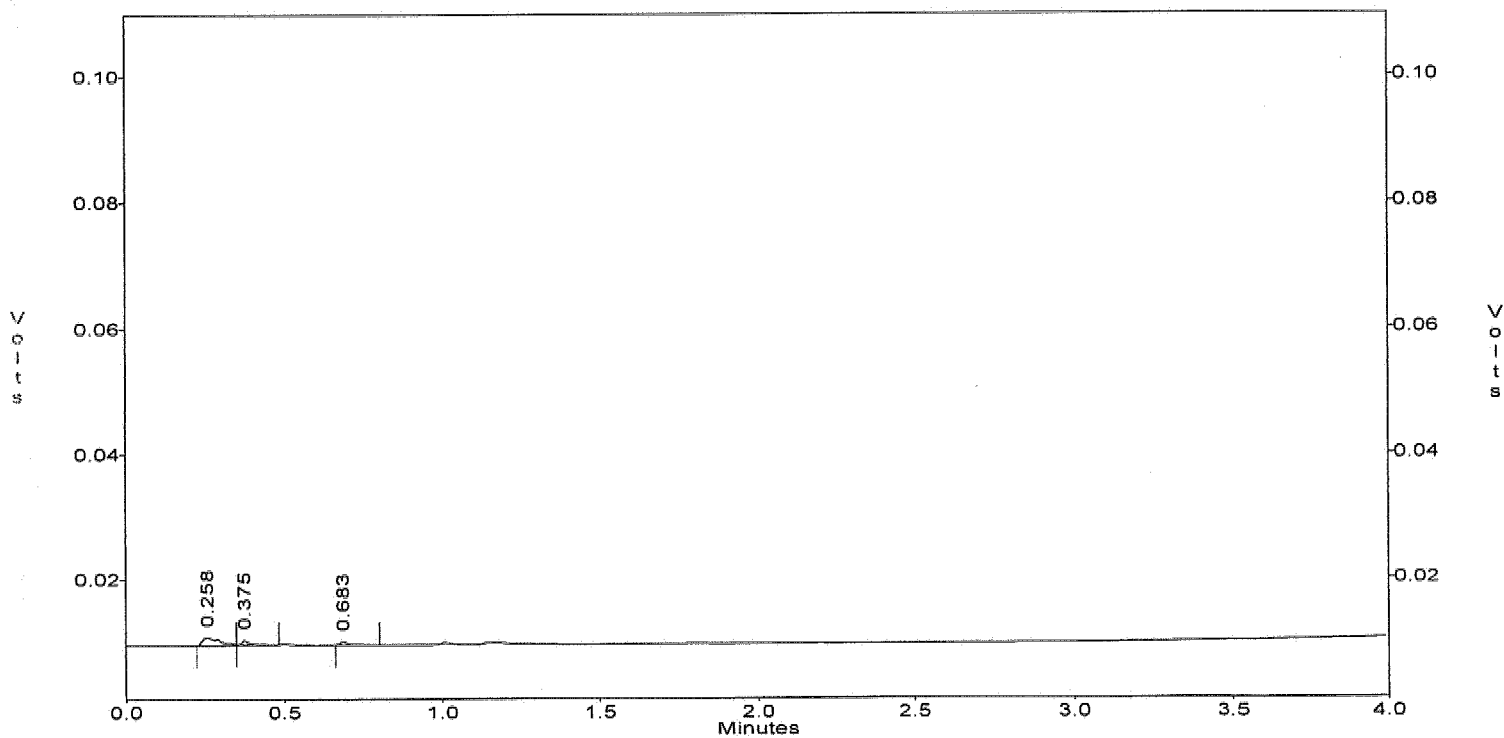
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.003
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : MEC009WB
Acquired : Mar 17, 2006 08:57:42
Printed : Mar 17, 2006 09:01:43
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0

c:\ezchrom\chrom\DC17\Dc17.003 -- Channel A



EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

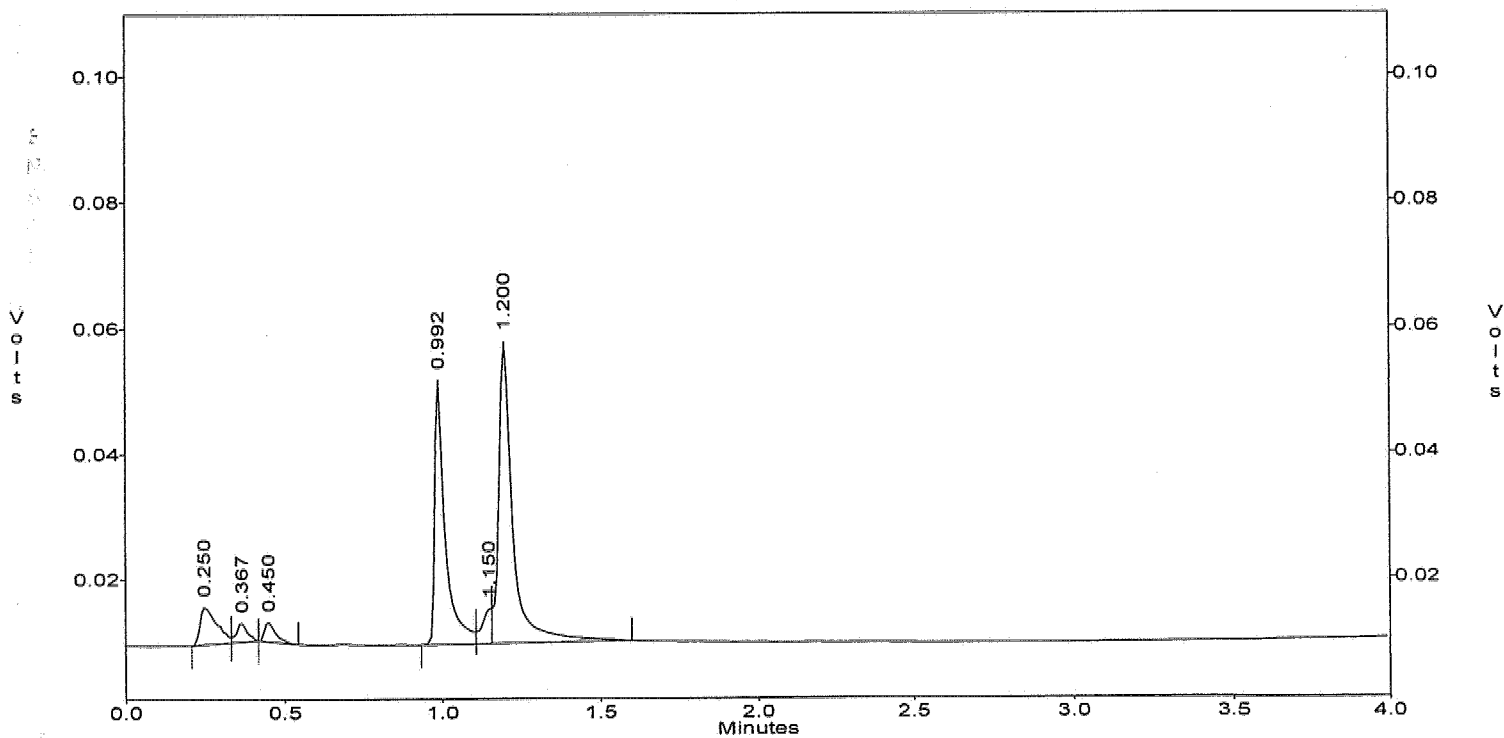
File : c:\ezchrom\chrom\dc17\dc17.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC009WL
Acquired : Mar 17, 2006 09:12:58
Printed : Mar 17, 2006 09:20:51
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	97776	9735.5	10.0
6	ETHANOL	1.200	147718	16319.3	9.1

F
M
S
V
E

c:\ezchrom\chrom\dc17\dc17.004 -- Channel A



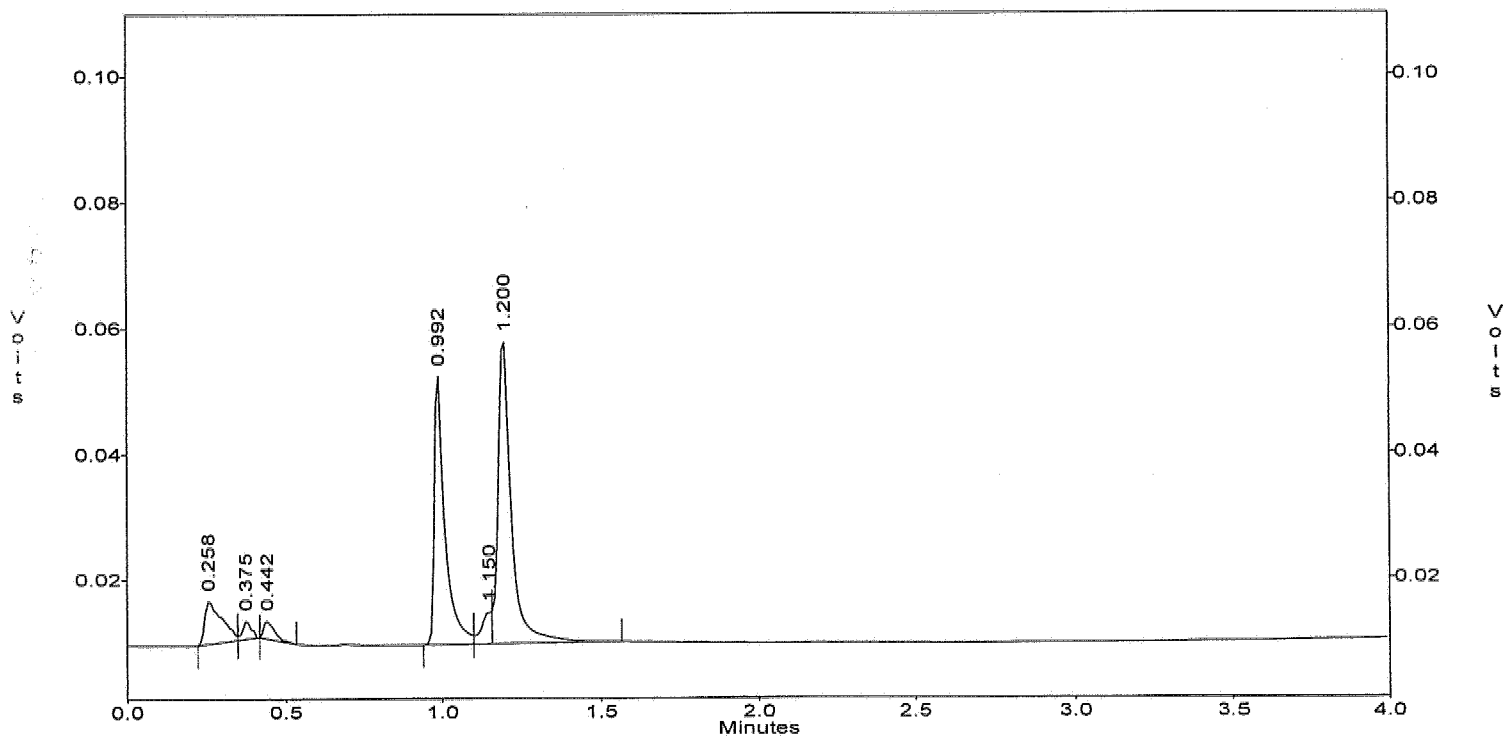
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc17\dc17.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC009WC
Acquired : Mar 17, 2006 09:29:48
Printed : Mar 17, 2006 09:40:27
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	100476	9735.5	10.3
6	ETHANOL	1.200	140014	16319.3	8.6

c:\ezchrom\chrom\dc17\dc17.005 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 LFID & Datetime: DC06002A 03/06/06 13:33 ✓
 LFID & Datetime: DC06003A 03/06/06 13:53 ✓
 LFID & Datetime: DC06004A 03/06/06 14:11 ✓
 LFID & Datetime: DC06005A 03/06/06 14:29 ✓
 LFID & Datetime: DC06006A 03/06/06 14:47 ✓
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT					MEAN	%RSD
		1.00X	5.00X	10.00X	15.00X	20.00X		
METHANOL	1.00	9358.00	9968.80	9945.50	9619.93	9785.45	9735.54	2.6
ETHANOL	1.00	14498	16802	17403	17481	15412	16319	8.0

ME43C06.MET

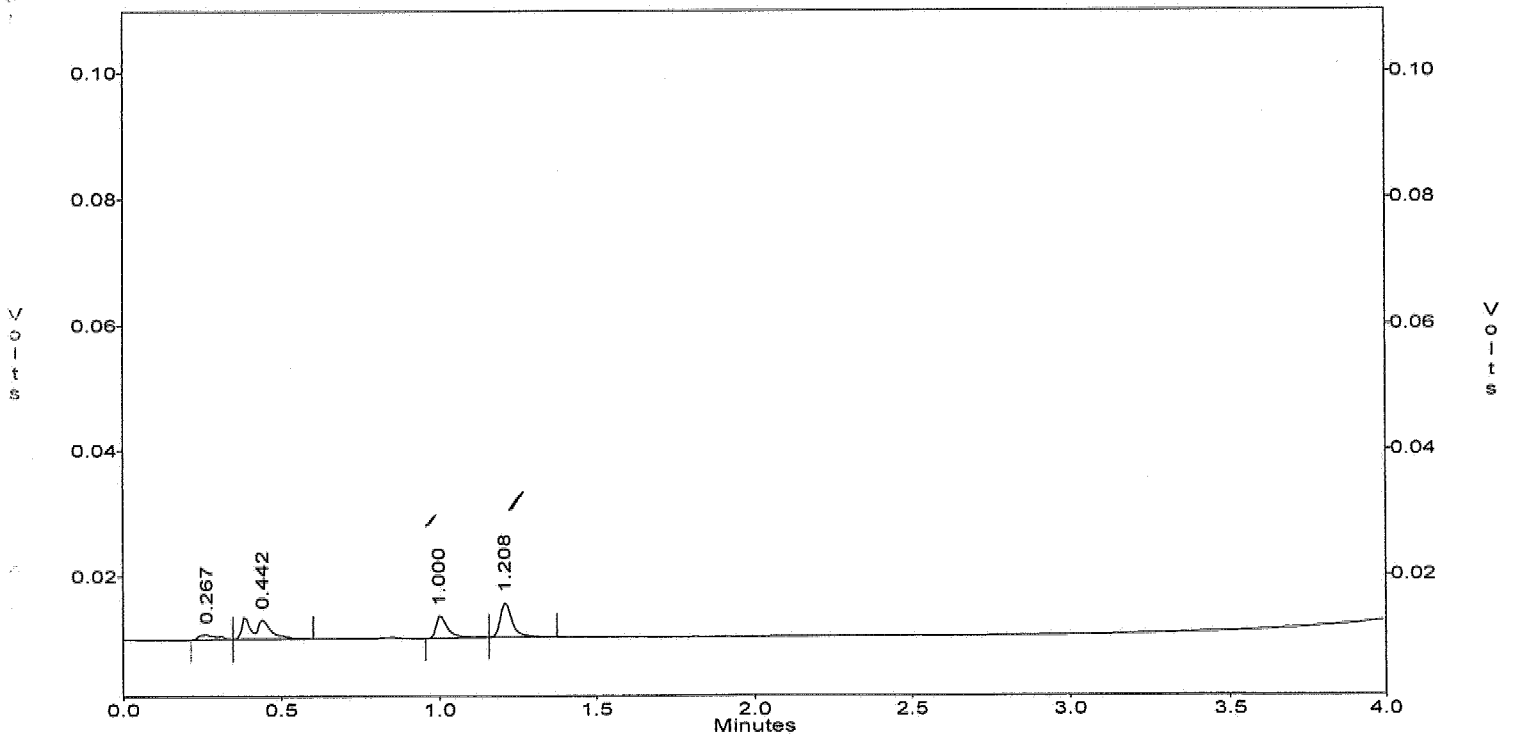
RA
03/08/06

File : c:\ezchrom\chrom\dc06\dc06.002
Method : c:\ezchrom\methods\me43c06.met ✓
Sample ID : ME43C0601 1PPM
Acquired : Mar 06, 2006 13:33:28 ✓
Printed : Mar 06, 2006 15:11:10
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	1.000	9358	9735.5	1.0
4	ETHANOL	1.208	14498	16319.3	1.0

c:\ezchrom\chrom\dc06\dc06.002 -- Channel A



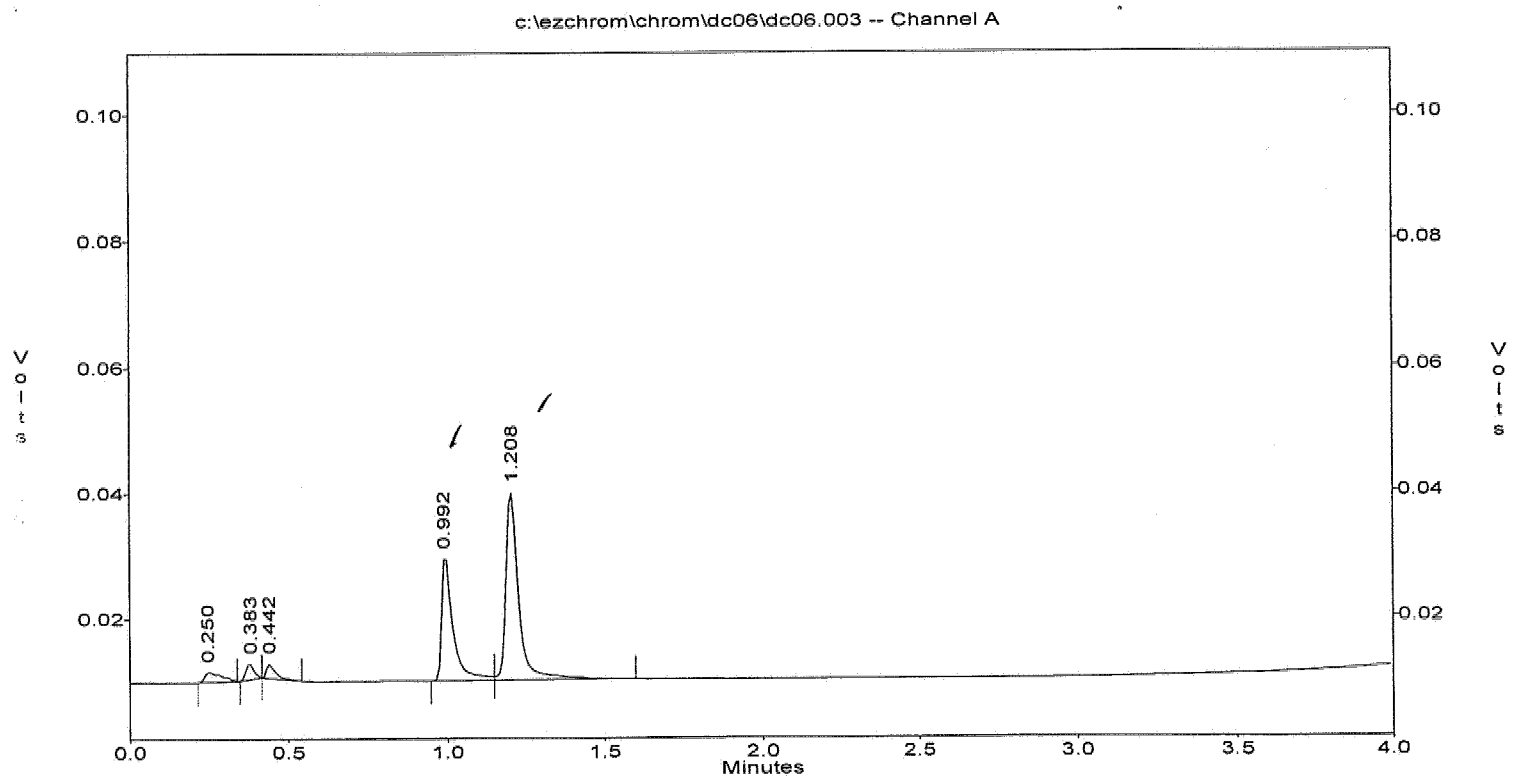
AS
03/08/06
5074

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.003
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0602 5PPM
Acquired : Mar 06, 2006 13:53:42
Printed : Mar 06, 2006 15:11:14
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	49844	9735.5	5.0
5	ETHANOL	1.208	84012	16319.3	5.0



AS
03/08/06
5075

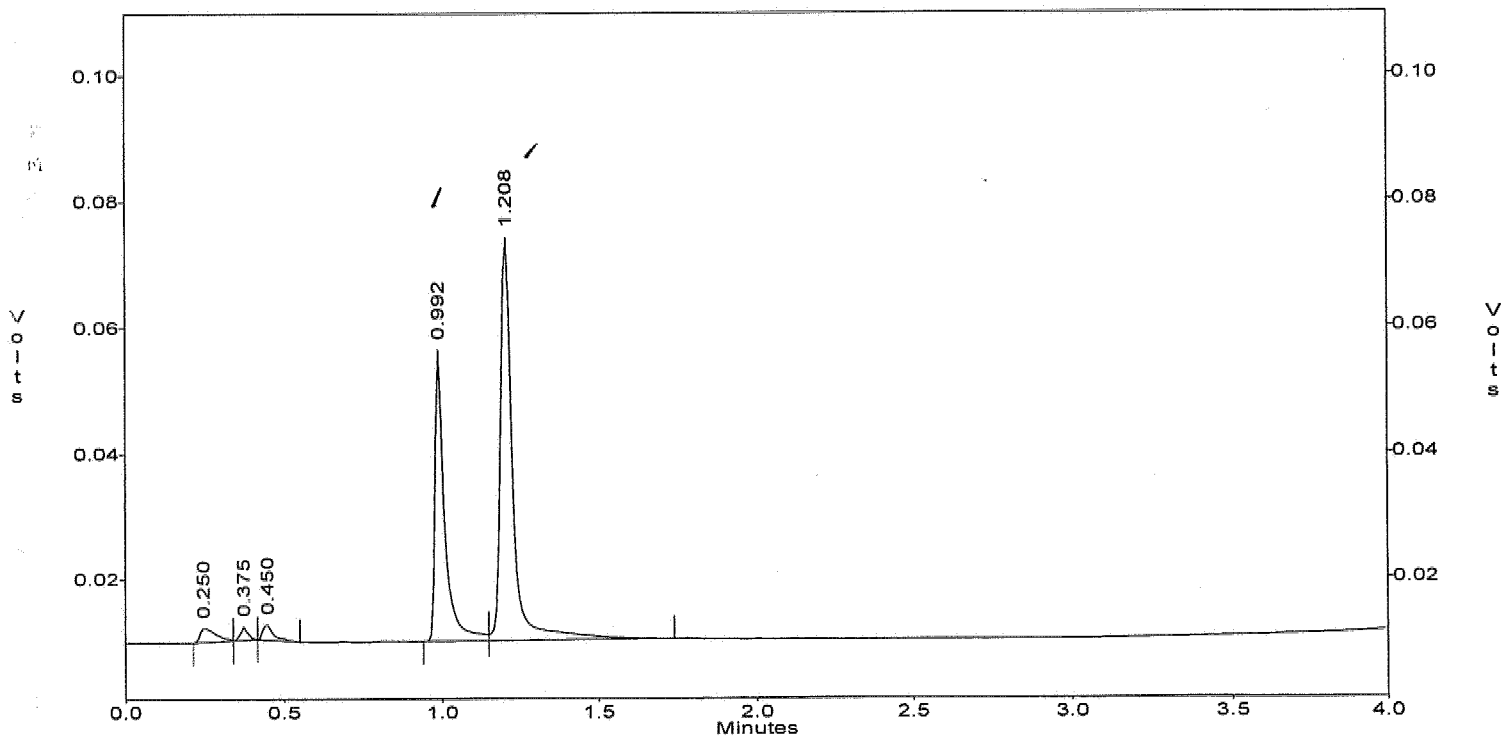
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0603 10PPM
Acquired : Mar 06, 2006 14:11:39
Printed : Mar 06, 2006 15:11:18
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	99455	9735.5	10.0
5	ETHANOL	1.208	174031	16319.3	10.0

c:\ezchrom\chrom\dc06\dc06.004 -- Channel A



RA
03/08/06

5076

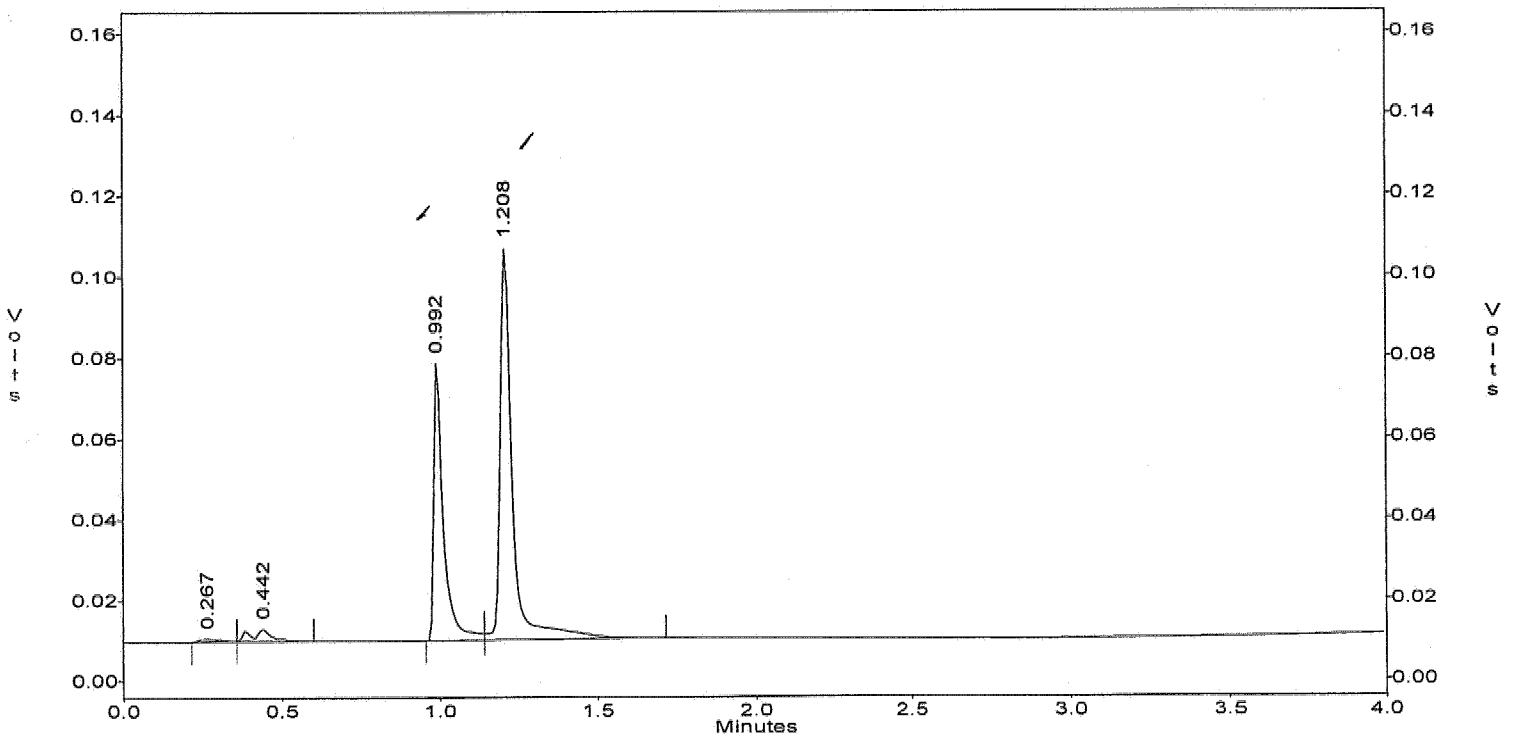
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0604 15PPM
Acquired : Mar 06, 2006 14:29:43
Printed : Mar 06, 2006 15:11:28
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.992	144299	9735.5	15.0
4	ETHANOL	1.208	262213	16319.3	15.0

c:\ezchrom\chrom\dc06\dc06.005 -- Channel A



RT
03/08/06
5077

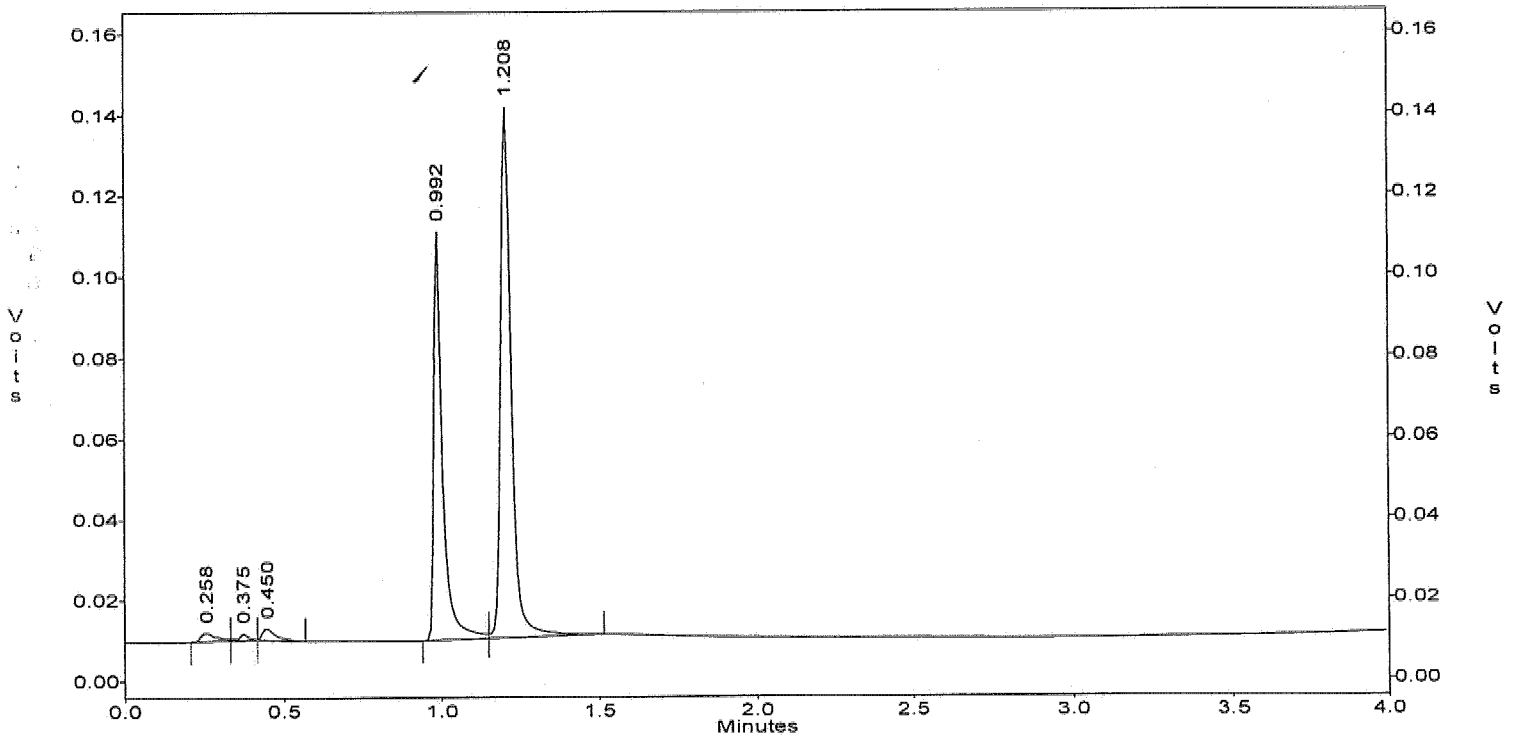
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.006
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0605 20PPM
Acquired : Mar 06, 2006 14:47:41
Printed : Mar 06, 2006 15:11:33
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	195709	9735.5	20.0
5	ETHANOL	1.208	308245	16319.3	20.0

c:\ezchrom\chrom\dc06\dc06.006 -- Channel A



At
03/08/06
5078

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
 Conc Cont LFID & Datetime: DC06007A 03/06/2006 15:04
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	1.008	0.982	1.034	10.0	9735.5	103117	10.59	6		15
ETHANOL	1.225	1.196	1.254	10.0	16319.3	164274	10.07	1		15

ME43C06.MET

LS
 03/08/06
 5080

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

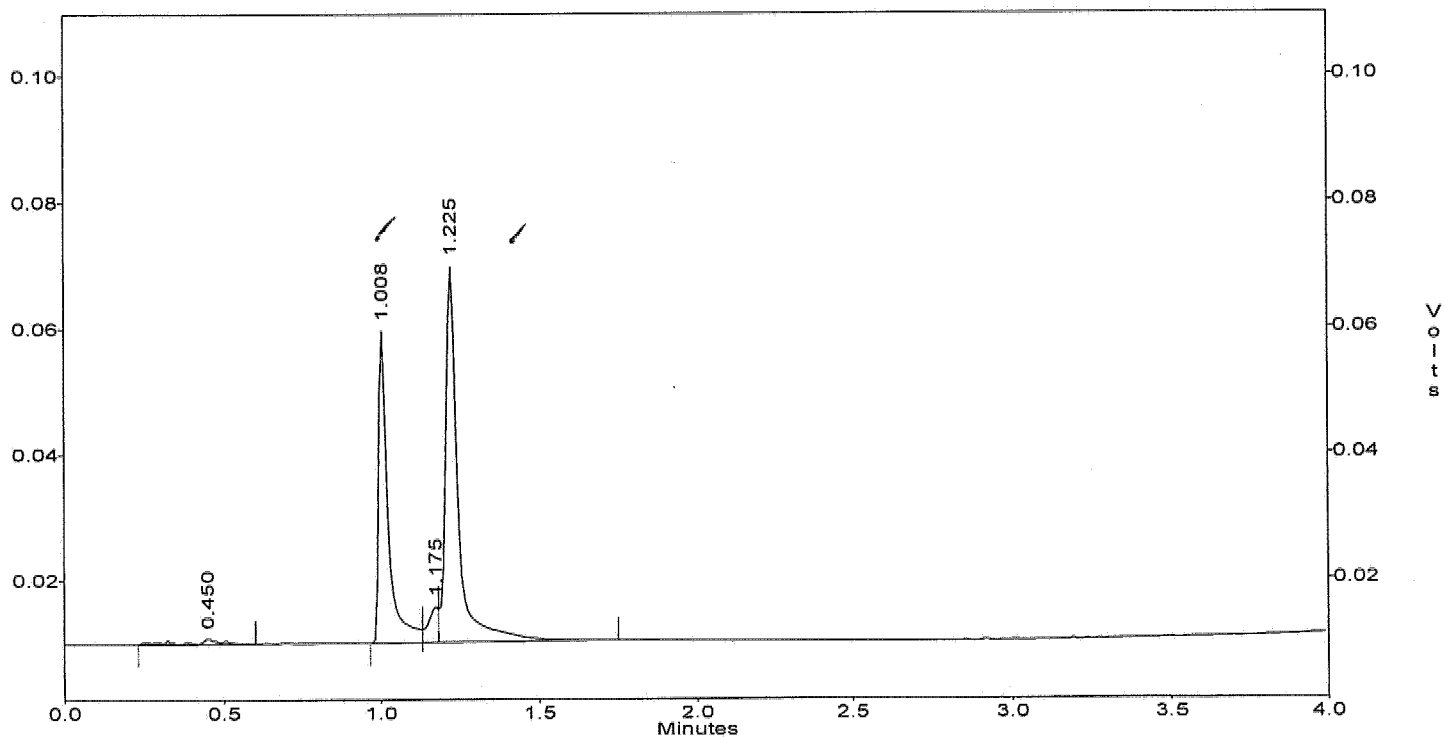
File : c:\ezchrom\chrom\dc06\dc06.007
Method : c:\ezchrom\methods\me43c06.met
Sample ID : IME43C0601 10PPM
Acquired : Mar 06, 2006 15:04:40
Printed : Mar 06, 2006 15:11:45
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	1.008	103117	9735.5	10.6
4	ETHANOL	1.225	164274	16319.3	10.1

0
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2
3
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50

c:\ezchrom\chrom\dc06\dc06.007 -- Channel A



At
03/08/06

5081

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
 Conc Cont LFID & Datetime: DC17002A 03/17/2006 08:42
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	0.992	0.966	1.018	10.0	9735.5	106767	10.97	10		15
ETHANOL	1.200	1.171	1.229	10.0	16319.3	178011	10.91	9		15

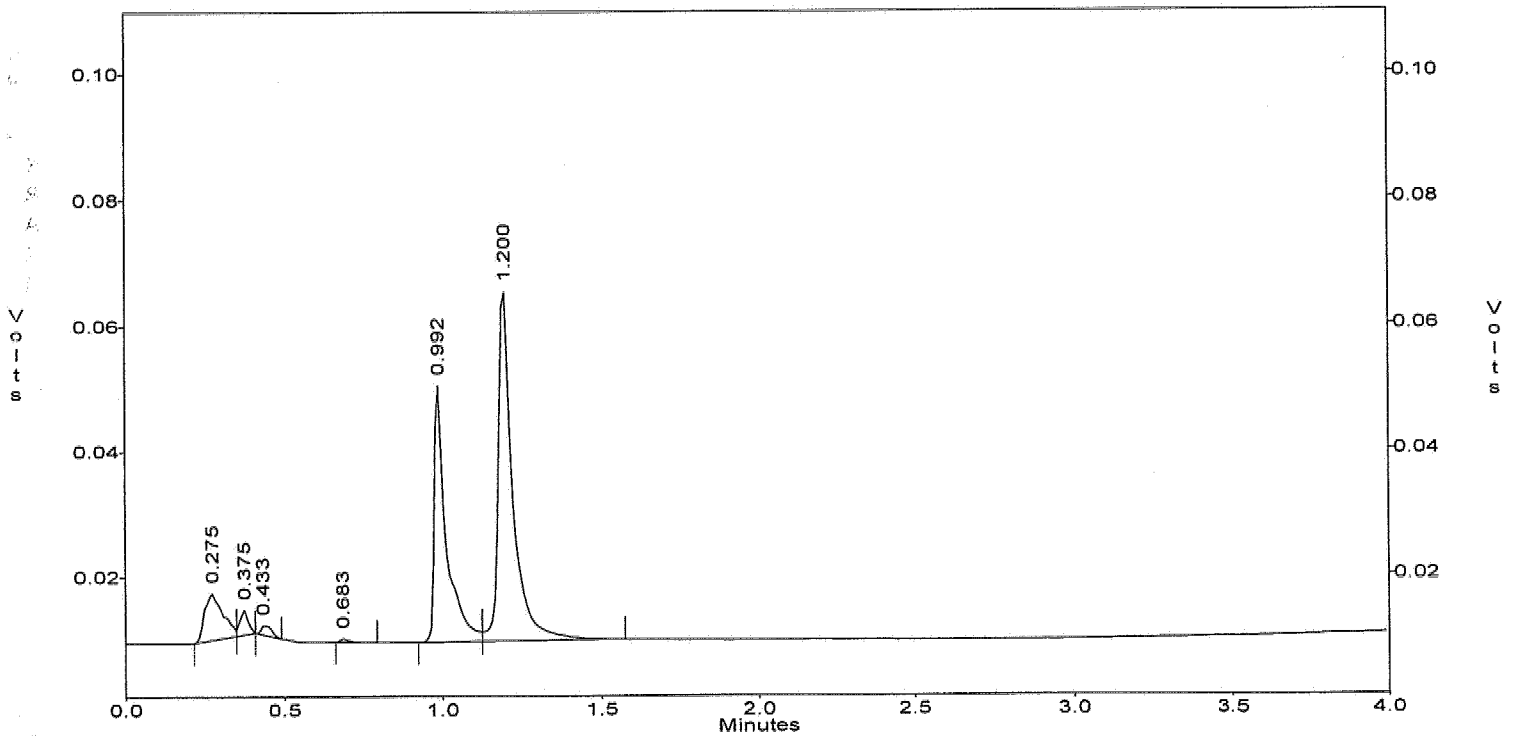
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.002
 Method : c:\ezchrom\methods\Me43c06.met
 Sample ID : CME43C06036 10PPM
 Acquired : Mar 17, 2006 08:42:32
 Printed : Mar 17, 2006 08:46:33
 User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
5	METHANOL	0.992	106767	9735.5	11.0
6	ETHANOL	1.200	178011	16319.3	10.9

c:\ezchrom\chrom\DC17\Dc17.002 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DCD6004A 03/06/2006 14:11
 Conc Cont LFID & Datetime: DC17010A 03/17/2006 10:48
 CONC UNIT : ppm

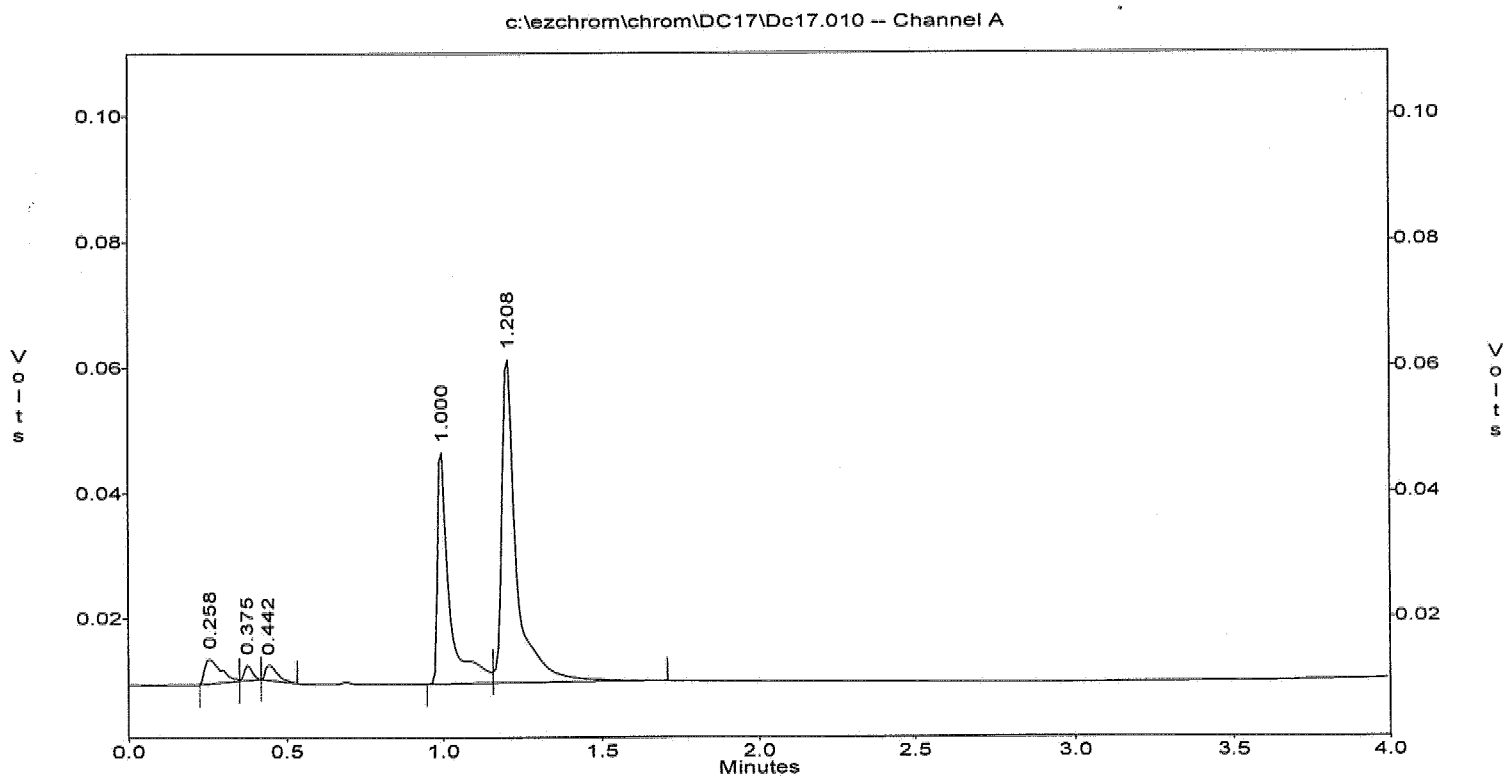
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	1.000	0.974	1.026	10.0	9735.5	97587	10.02	0		15
ETHANOL	1.208	1.179	1.237	10.0	16319.3	165411	10.14	1		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\DC17.010
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06037 10PPM
Acquired : Mar 17, 2006 10:48:54
Printed : Mar 17, 2006 10:52:56
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	1.000	97587	9735.5	10.0
5	ETHANOL	1.208	165411	16319.3	10.1



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

Book # A43-012

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LUFTE Revision No. 3 ✓ Methanol / Ethanol

Starting Date: 3/17/06 Time: 08:25

Ending Date: 3/17/06

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	Instrument No:	43
				S	W			
	DE17.001	IB49C07A6	10					
	2	MEU3C06036	1			10 ppm		
MEC009W	3	MEC009W3	1					
	4	L	1			10 ppm (10x)		
	5	C	1					
	6	06C119-01	1					
	7	02	1					
	8	06C127-09	1					
	9	10	1					
	10	MEU3C09037	10			10 ppm		

ANALYTICAL BATCH DC17002

INITIAL CALIBRATION REFERENCE		Instrument No:	43
Name	ID	Conc. (mg/L)	Date
CH ₂ Cl ₂			
DCC	553C-07-10-2	100	
LCS	553C-07-10-3	↓	
H ₂ O	organic free		

Comments:

Analyzed By: XP
Disposed on: 3/17/06 By: XP

This page is checked during the data review process.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ETHYLENE GLYCOL BY GC

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C119

METHOD M8015 ETHYLENE GLYCOL BY GC

Two (2) water samples were received on 03/14/06 for Ethylene Glycol by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Water samples were not preserved.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

No sample was requested for spike.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ETHYLENE GLYCOL

Client : ENSR
Project : UPGRAIDENT INVESTIGATION, TRONOX
SDG NO. : 06C119
Instrument ID : GCT043

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Date/Time	Extraction Date/Time	Sample Data FN	Calibration Prep.		Notes
							Data FN	Batch	
MBLK1W	EGC008WB	1	NA	03/16/0618:14	03/16/0618:14	DC16030A	DC16027A	EGC008W	Method Blank
LCS1W	EGC008WL	1	NA	03/16/0617:46	03/16/0617:46	DC16028A	DC16027A	EGC008W	Lab Control Sample (LCS)
LCD1W	EGC008WC	1	NA	03/16/0617:57	03/16/0617:57	DC16029A	DC16027A	EGC008W	LCS Duplicate
TR-10A	C119-01	1	NA	03/16/0618:33	03/16/0618:33	DC16031A	DC16027A	EGC008W	Field Sample
PUMP BLANK	C119-02	1	NA	03/16/0618:42	03/16/0618:42	DC16032A	DC16027A	EGC008W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ETHYLENE GLYCOL

```
=====  
Client      : ENSR                               Date Collected: 03/13/06  
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/14/06  
Batch No.   : 06C119                           Date Extracted: 03/16/06 18:33  
Sample ID   : TR-10A                            Date Analyzed: 03/16/06 18:33  
Lab Samp ID: C119-01                            Dilution Factor: 1  
Lab File ID: DC16031A                           Matrix          : WATER /  
Ext Btch ID: EGC008W                            % Moisture      : NA  
Calib. Ref.: DC16027A                           Instrument ID   : GCT043  
=====
```

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

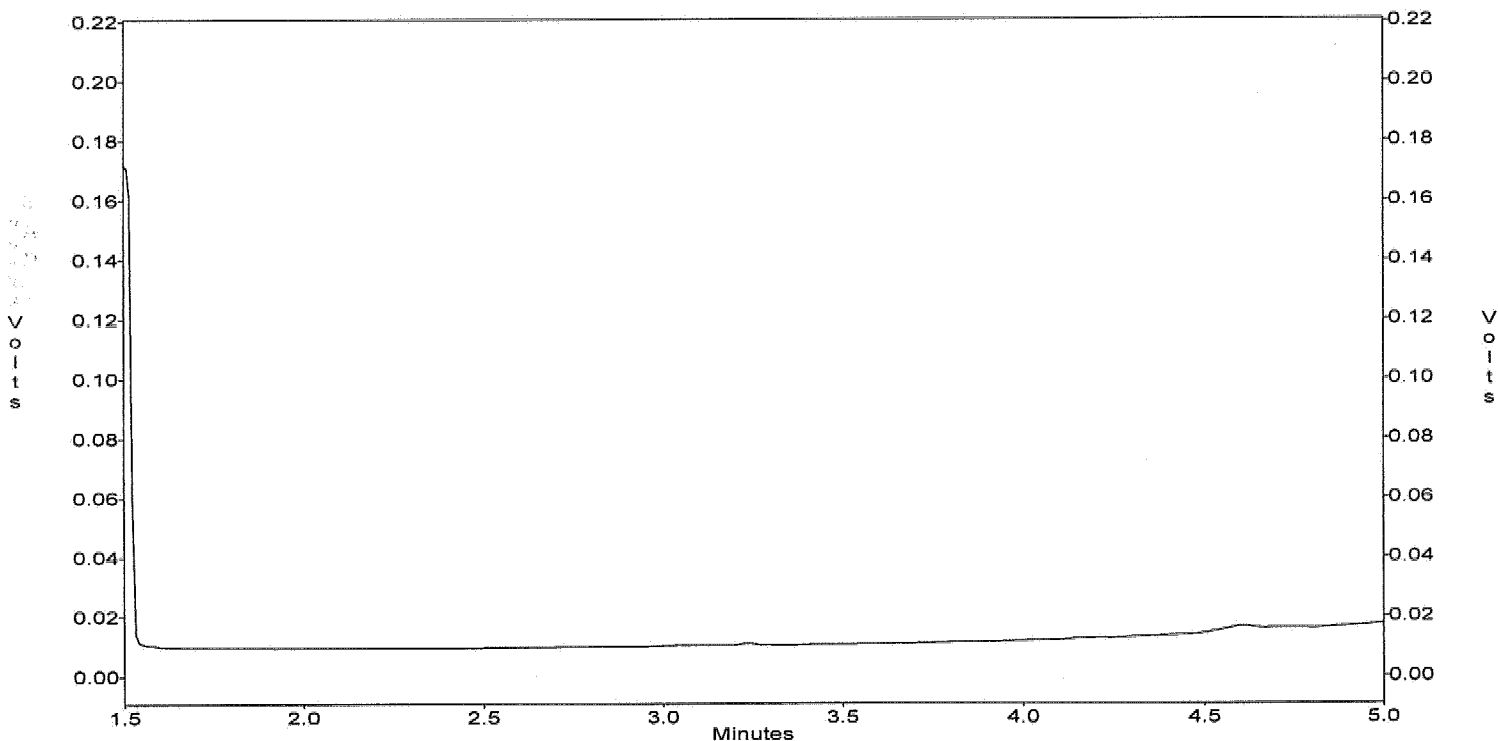
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.031
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C119-01
Acquired : Mar 16, 2006 18:33:52
Printed : Mar 16, 2006 18:40:47
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

c:\ezchrom\chrom\DC16\Dc16.031 -- Channel A



METHOD M8015
ETHYLENE GLYCOL

```

=====
Client      : ENSR                      Date Collected: 03/13/06
Project    : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/14/06
Batch No.  : 06C119                    Date Extracted: 03/16/06 18:42
Sample ID  : PUMP BLANK                 Date Analyzed: 03/16/06 18:42
Lab Samp ID: C119-02                   Dilution Factor: 1
Lab File ID: DC16032A                  Matrix          : WATER
Ext Btch ID: EGC008W                   % Moisture      : NA
Calib. Ref.: DC16027A                  Instrument ID   : GCT043
=====
  
```

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

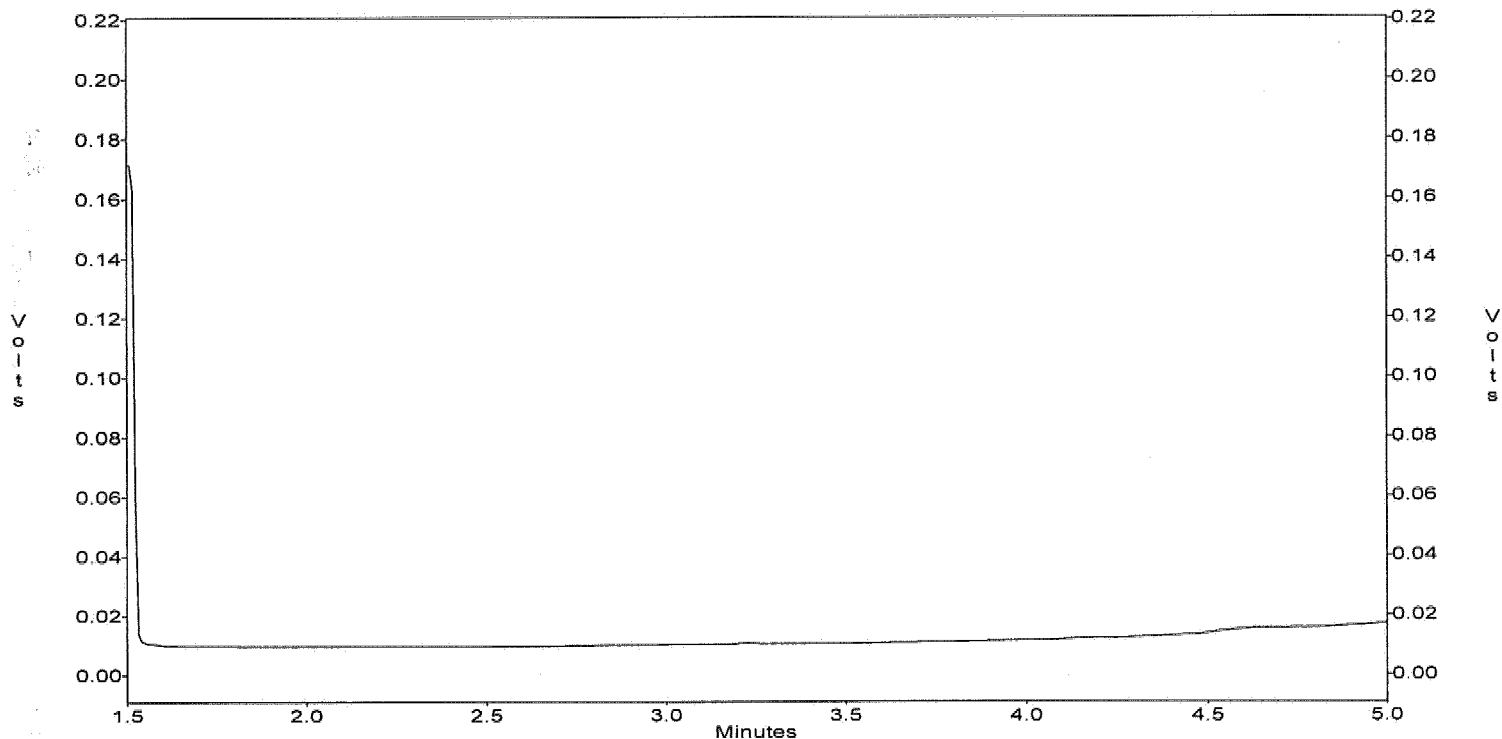
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.032
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C119-02
Acquired : Mar 16, 2006 18:42:38
Printed : Mar 16, 2006 18:49:39
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

c:\ezchrom\chrom\DC16\Dc16.032 -- Channel A



QC SUMMARIES

METHOD M8015
ETHYLENE GLYCOL

=====
Client : ENSR Date Collected: NA
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/16/06
Batch No. : 06C119 Date Extracted: 03/16/06 18:14
Sample ID: MBLK1W Date Analyzed: 03/16/06 18:14
Lab Samp ID: EGC008WB Dilution Factor: 1
Lab File ID: DC16030A Matrix : WATER
Ext Btch ID: EGC008W % Moisture : NA
Calib. Ref.: DC16027A Instrument ID : GCT043
=====

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD M8015

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: EGC008WB EGC008WL EGC008WC
LAB FILE ID: DC16030A DC16028A DC16029A
DATE EXTRACTED: 03/16/0618:14 03/16/0617:46 03/16/0617:57 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0618:14 03/16/0617:46 03/16/0617:57 DATE RECEIVED: 03/16/06
PREP. BATCH: EGC008W EGC008W EGC008W
CALIB. REF: DC16027A DC16027A DC16027A

ACCESSION:

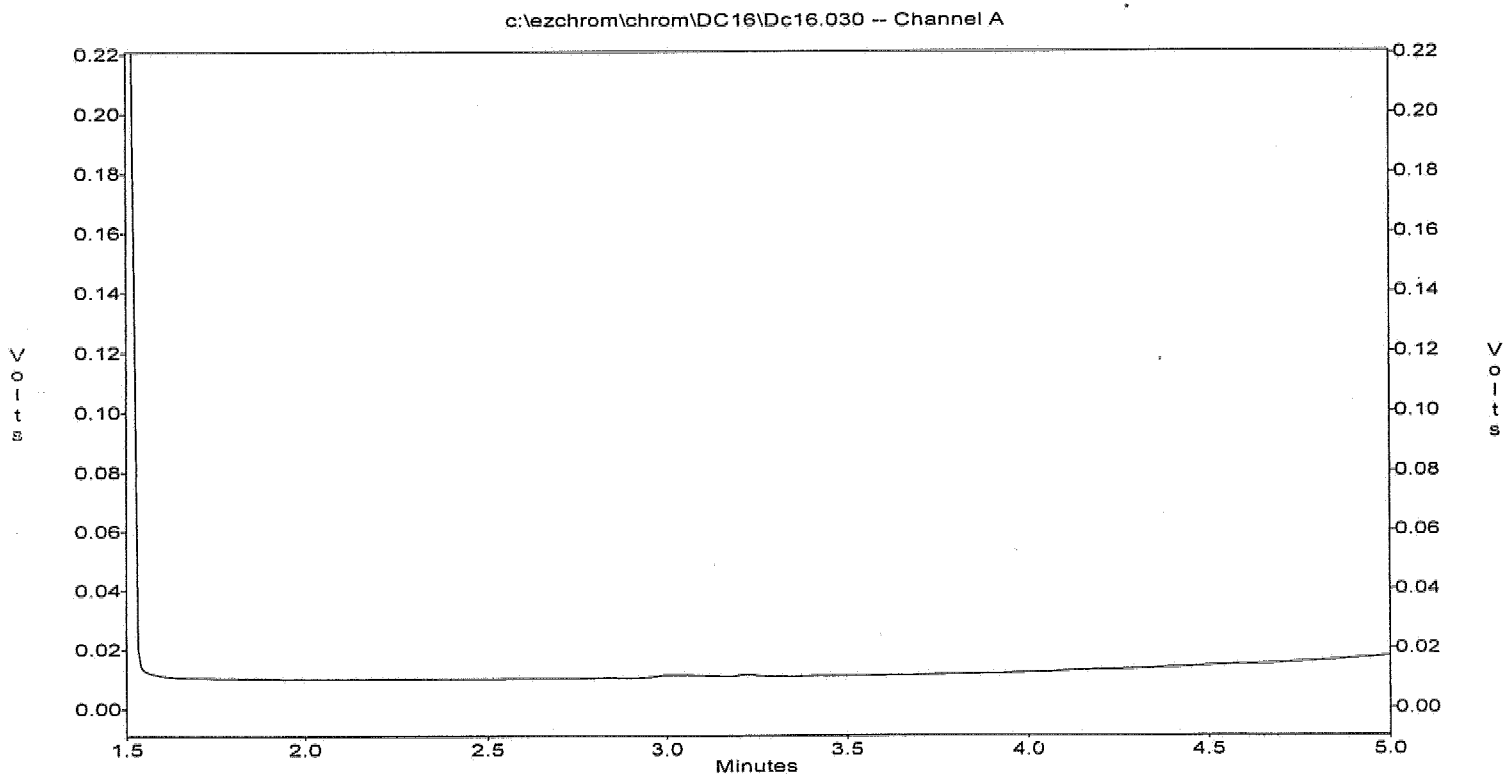
PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethylene Glycol	ND	50	52.2	104	50	61.6	123	16	40-140	50

QC DATA

File : c:\ezchrom\chrom\DC16\Dc16.030
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : EGC008WB
Acquired : Mar 16, 2006 18:14:37
Printed : Mar 16, 2006 18:24:38
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

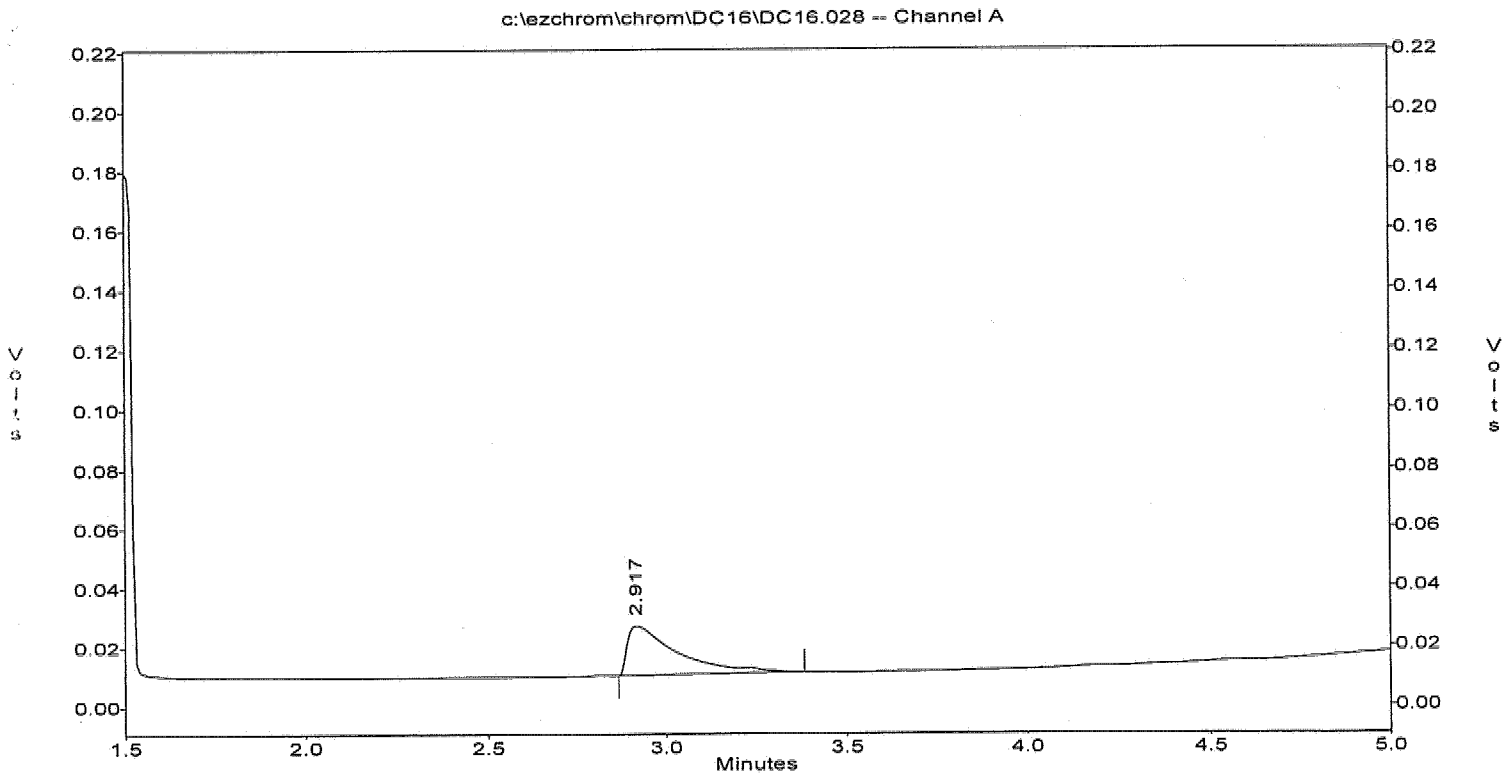


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\DC16.028
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC008WL
Acquired : Mar 16, 2006 17:46:42
Printed : Mar 16, 2006 17:58:47
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.917	159721	3058.1	52.2



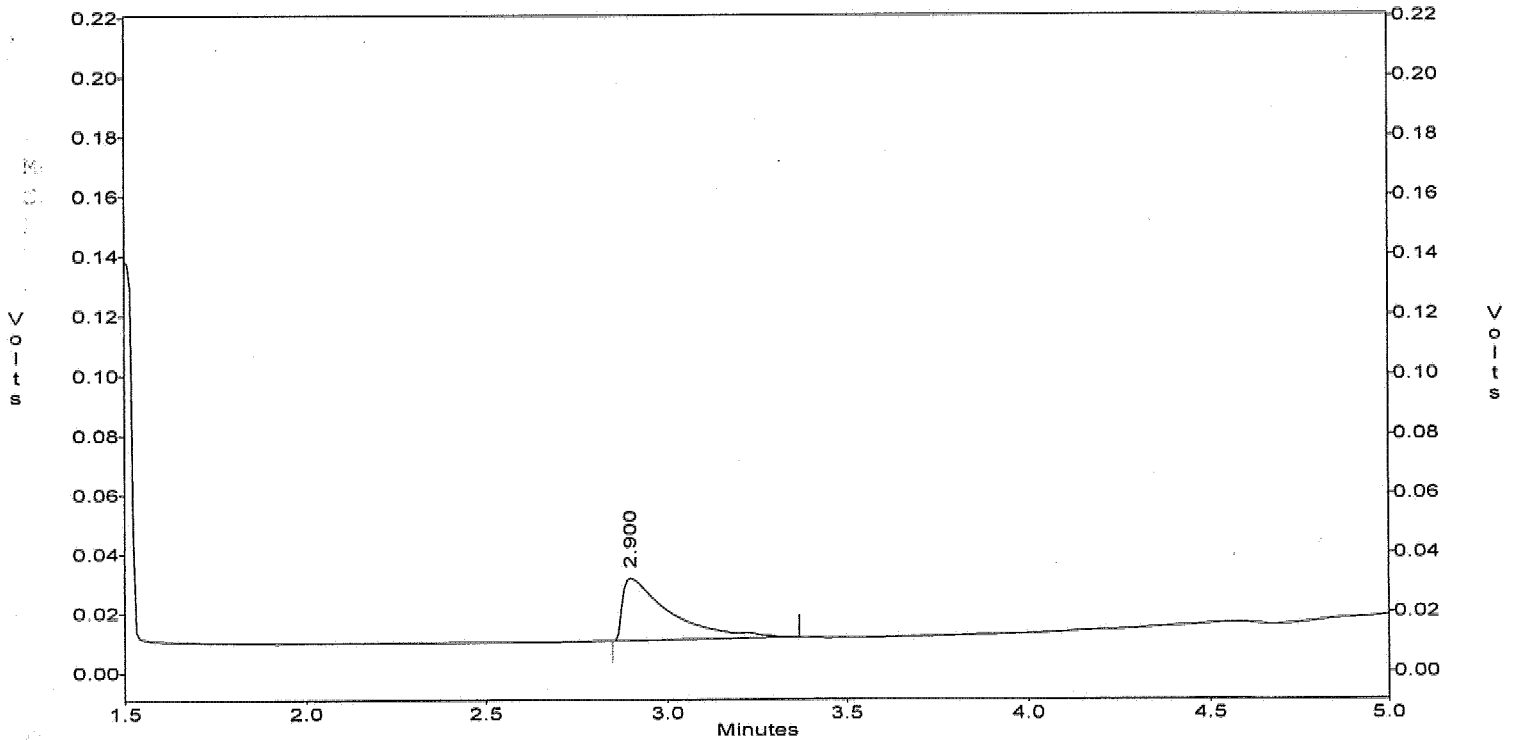
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc16\dc16.029
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC008WC
Acquired : Mar 16, 2006 17:57:26
Printed : Mar 16, 2006 18:11:01
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.900	188409	3058.1	61.6

c:\ezchrom\chrom\dc16\dc16.029 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015EG

Lab Name : EMAX Inc
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 LFID & Datetime: DC10024A 03/10/06 16:45
 LFID & Datetime: DC10025A 03/10/06 16:57
 LFID & Datetime: DC10026A 03/10/06 17:12
 LFID & Datetime: DC10029A 03/10/06 17:57
 LFID & Datetime: DC10028A 03/10/06 17:39
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT					MEAN	%RSD
		1.00X	2.00X	5.00X	7.50X	10.00X		
Ethylene Glycol	10.00	2634.70	2679.95	3055.42	3332.45	3588.02	3058.11	13.5

EG43C10.MET

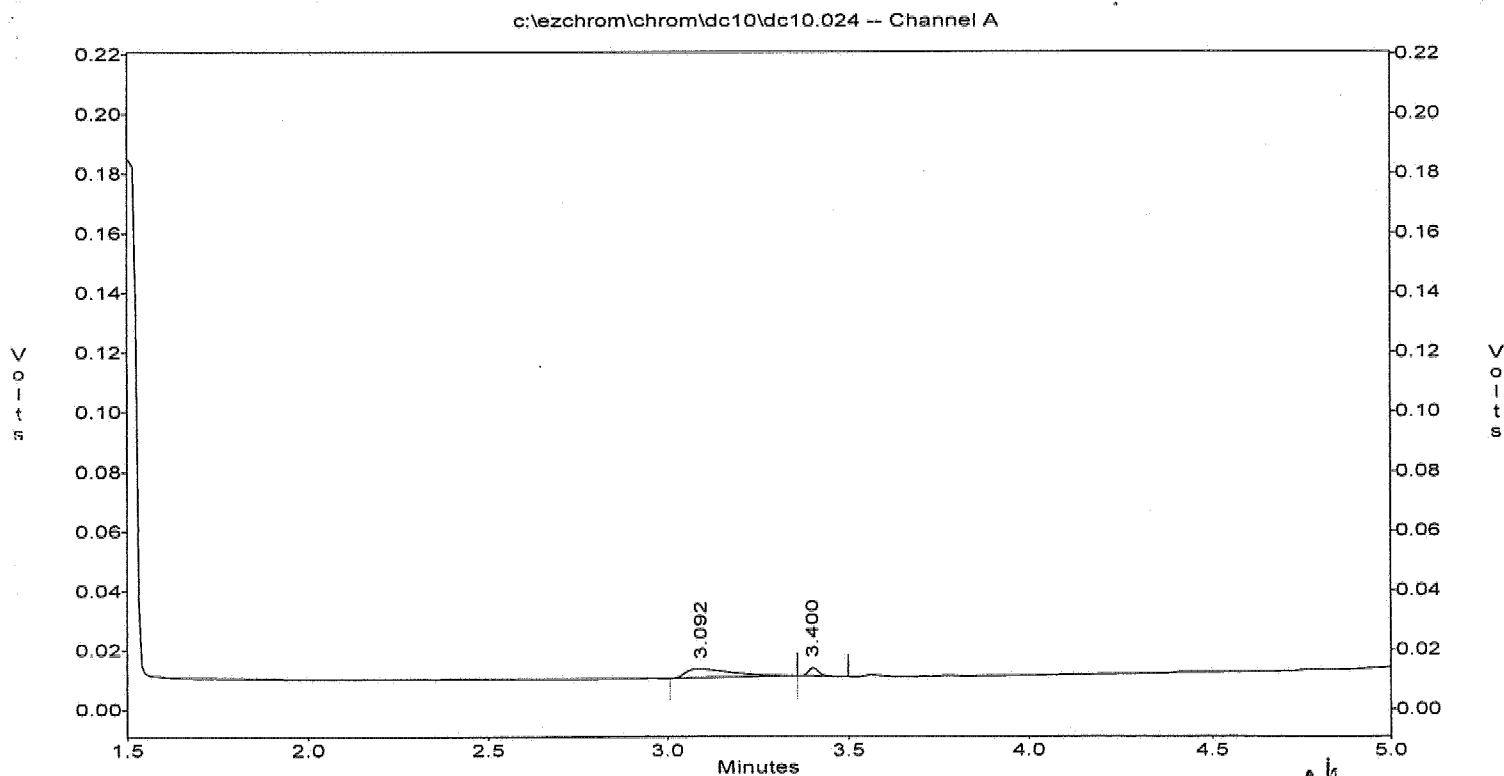
xv
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.024
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1001 10PPM
Acquired : Mar 10, 2006 16:45:04
Printed : Mar 15, 2006 17:09:13
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.092	26347	3058.1	10.0



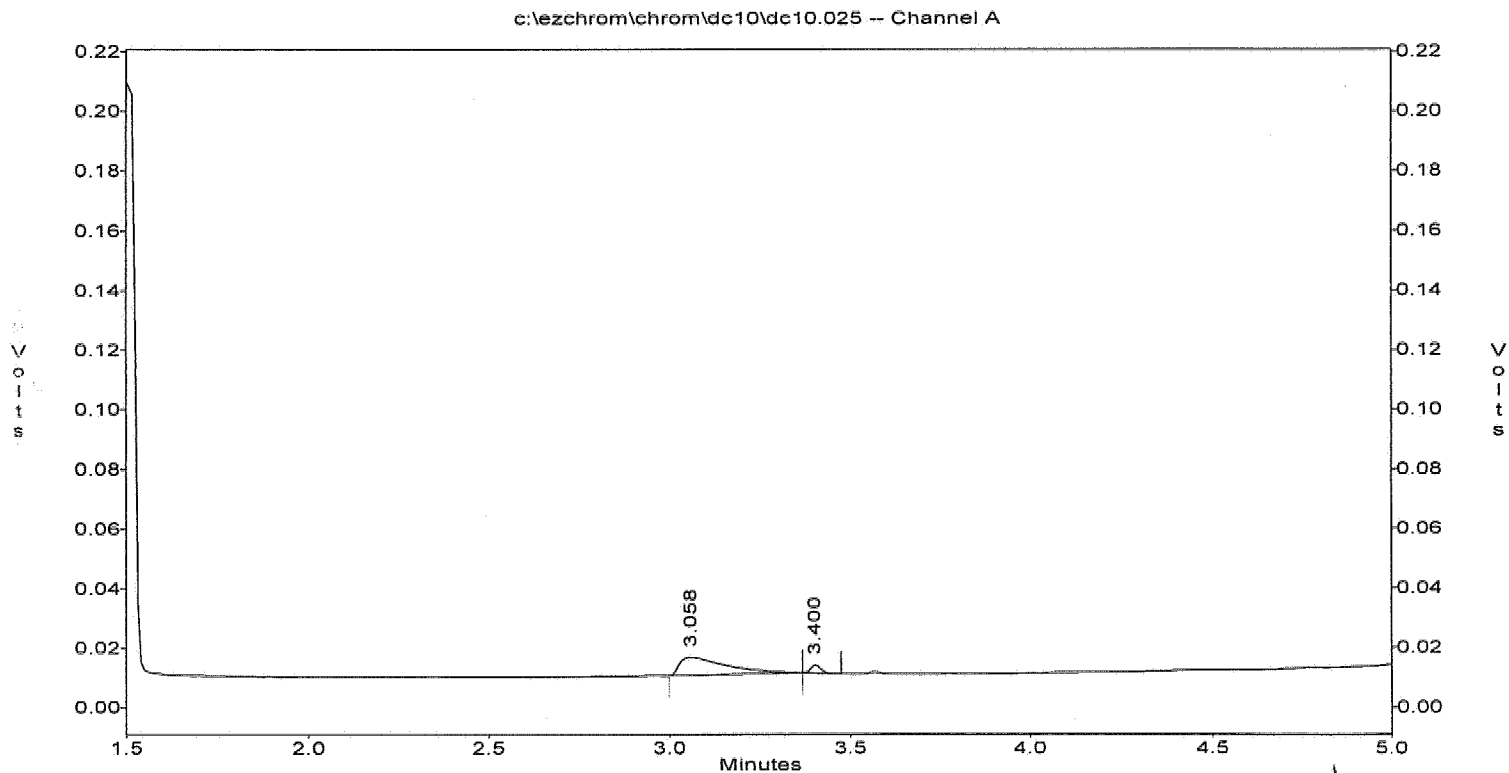
Handwritten: 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.025
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1002 20PPM
Acquired : Mar 10, 2006 16:57:52
Printed : Mar 15, 2006 17:09:44
User : LUCY

Channel A Results

#	Peak Name	Ret.Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.058	53599	3058.1	20.0



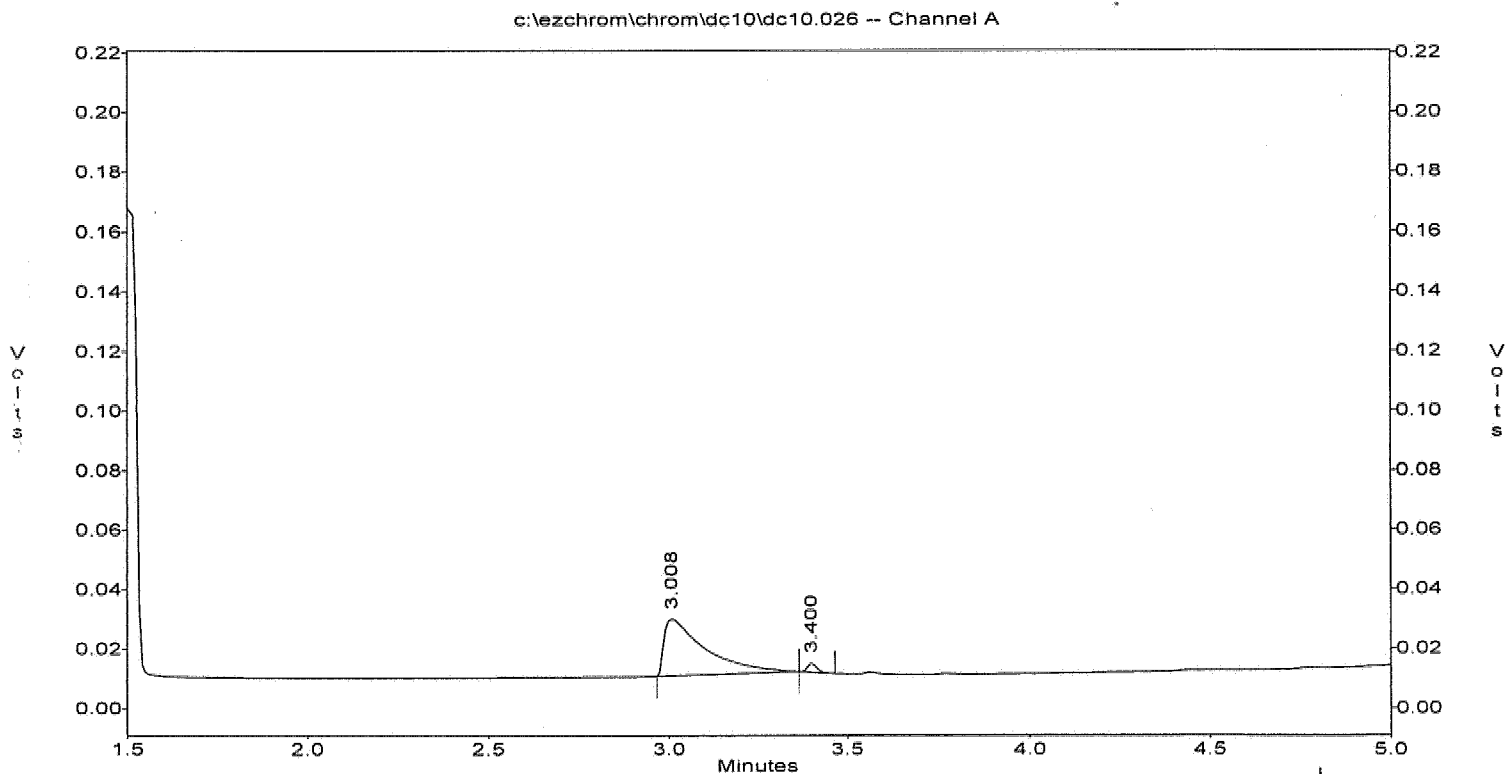
5108

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.026
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1003 50PPM
Acquired : Mar 10, 2006 17:12:34
Printed : Mar 15, 2006 17:09:57
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.008	152771	3058.1	50.0



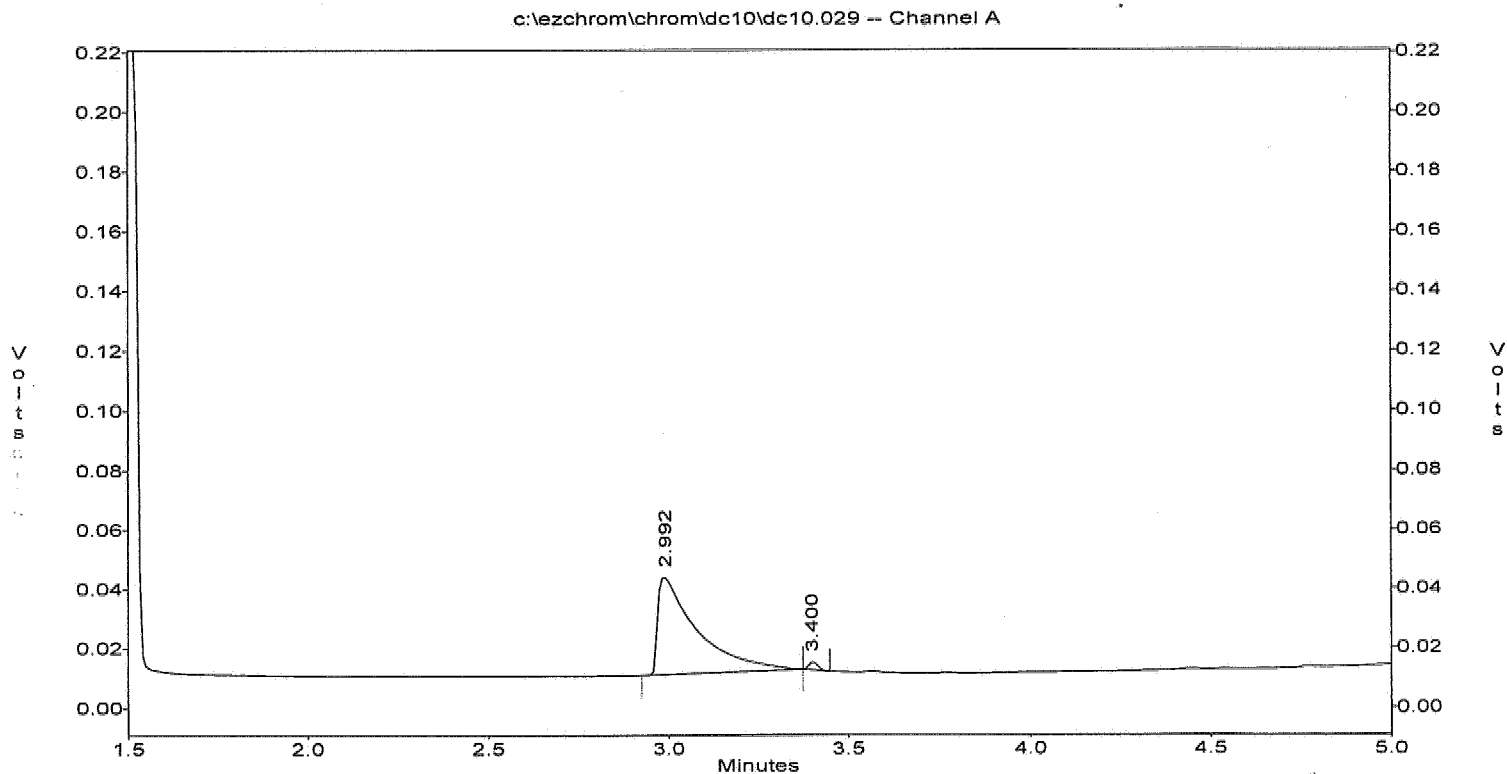
Handwritten: 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.029
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1004 75PPM
Acquired : Mar 10, 2006 17:57:02
Printed : Mar 15, 2006 17:10:07
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.992	249934	3058.1	75.0



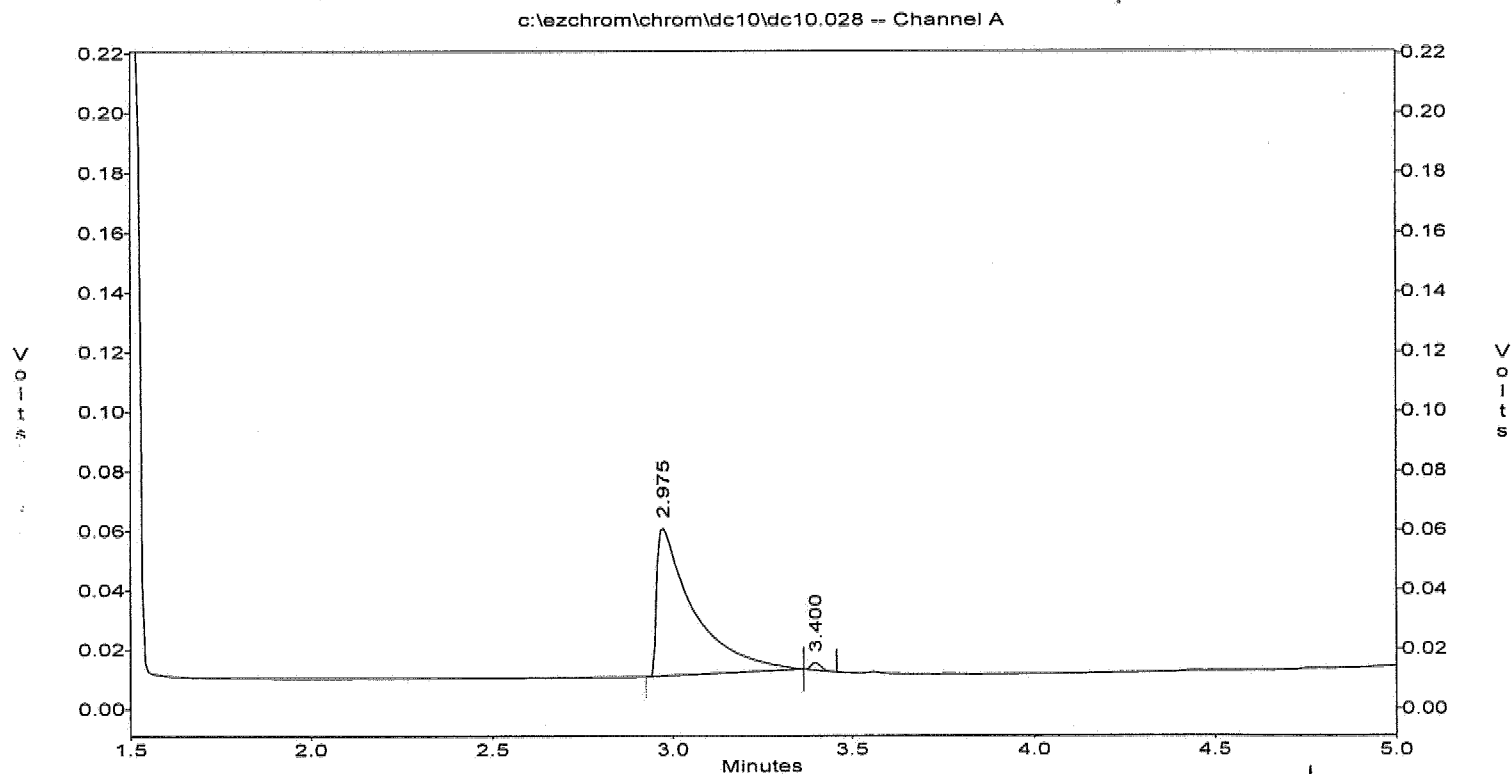
*for
3-22-06*

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.028
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1005 100PPM
Acquired : Mar 10, 2006 17:39:51
Printed : Mar 15, 2006 17:10:18
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.975	358802	3058.1	100.0



*40
3-22-06*

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015EG

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC10030A 03/10/2006 18:14
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			QL	%D LIMITS
		FROM	TO			AREA	CONC	%D		
Ethylene Glycol	3.008	2.769	3.247	50.0	3058.1	174073	56.92	14		15

EG43C10.MET

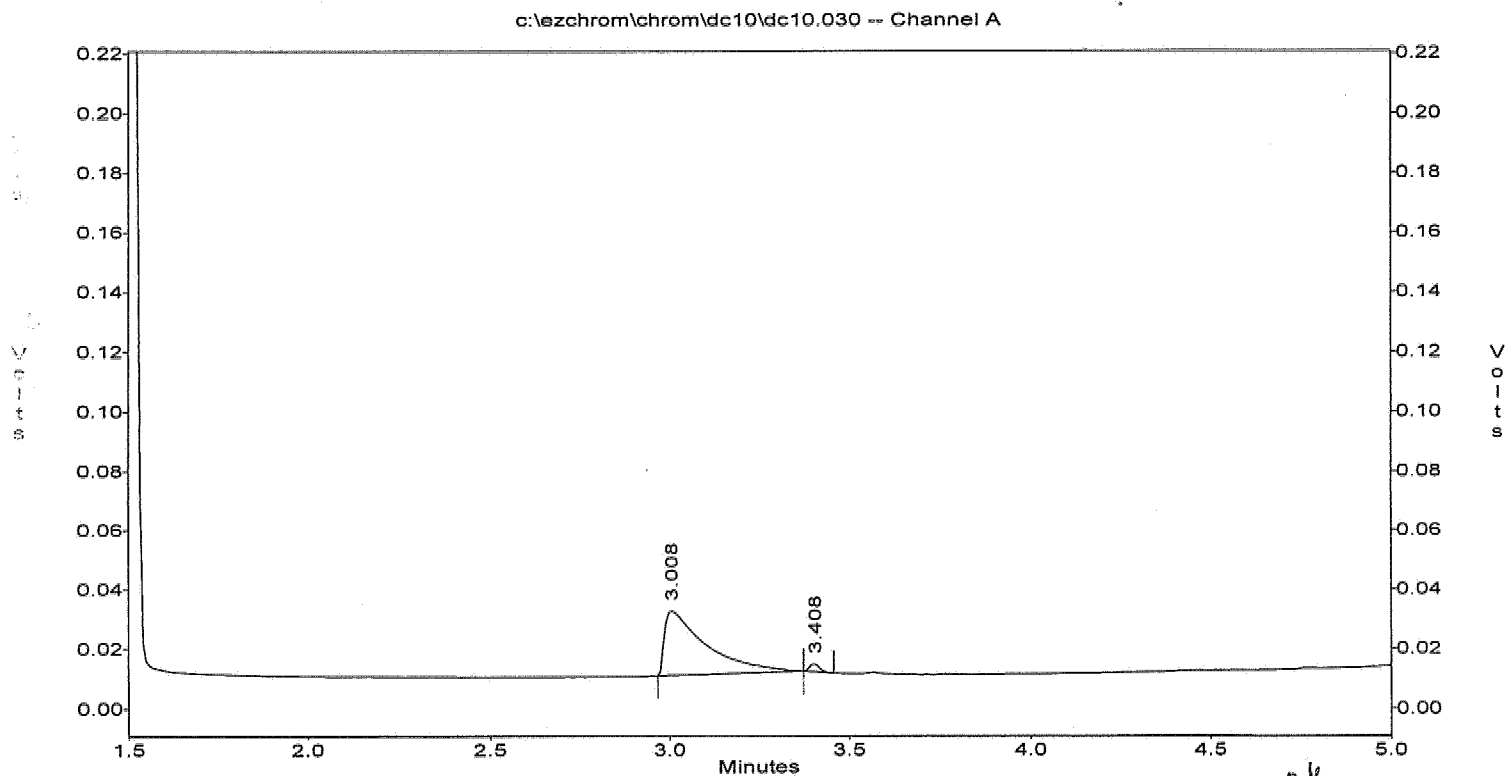
Handwritten:
 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.030
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : IEG43C1001 50PPM
Acquired : Mar 10, 2006 18:14:40
Printed : Mar 15, 2006 17:10:38
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.008	174073	3058.1	56.9



Handwritten: RW 3-22-06

5444

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015EG

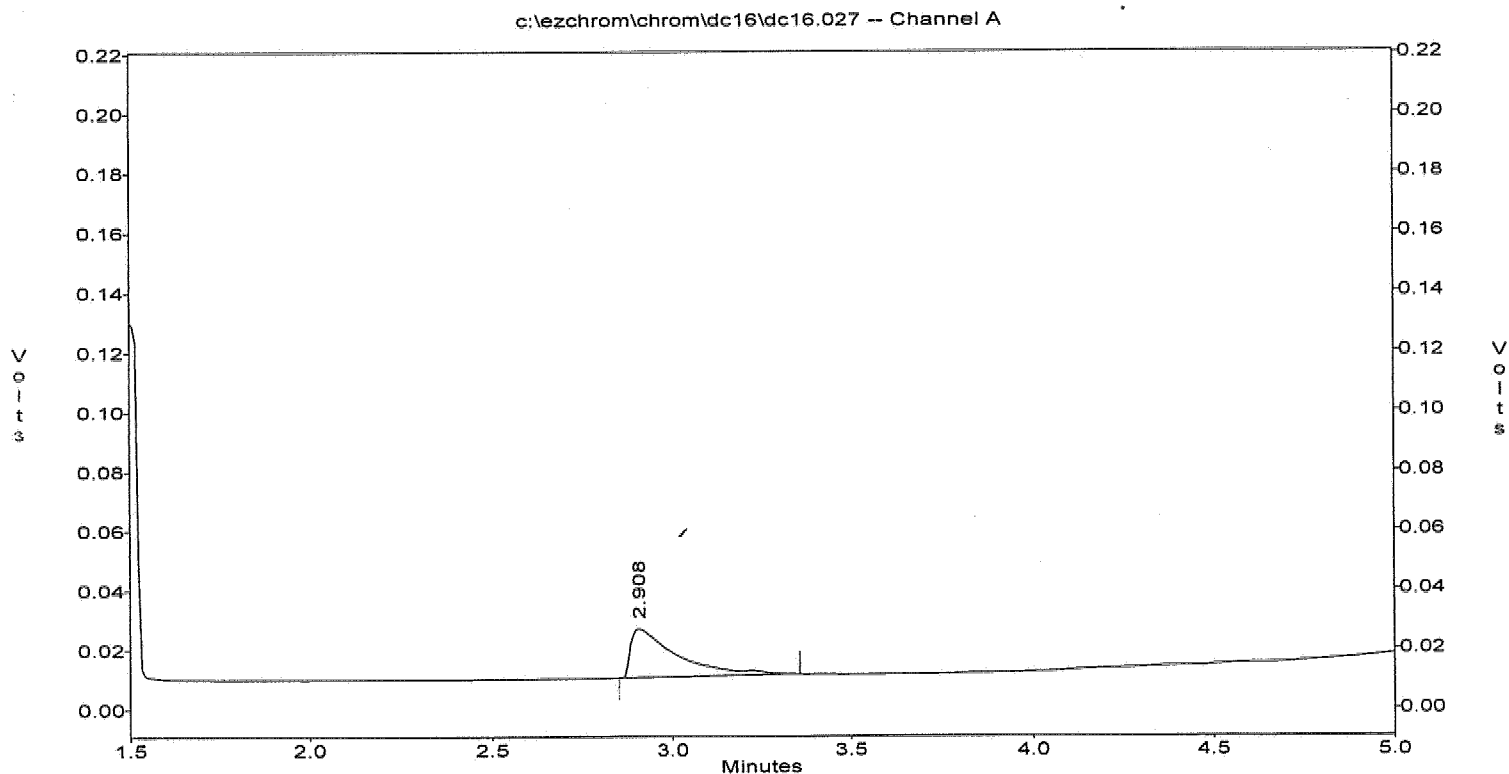
Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC16027A 03/16/2006 17:29
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Ethylene Glycol	2.908	2.669	3.147	50.0	3058.1	148360	48.51	-3		15

File : c:\ezchrom\chrom\dc16\dc16.027
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : CEG43C10034
Acquired : Mar 16, 2006 17:29:14
Printed : Mar 16, 2006 17:42:53
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.908	148360	3058.1	48.5



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC16033A 03/16/2006 18:50
 CONC UNIT : ppm

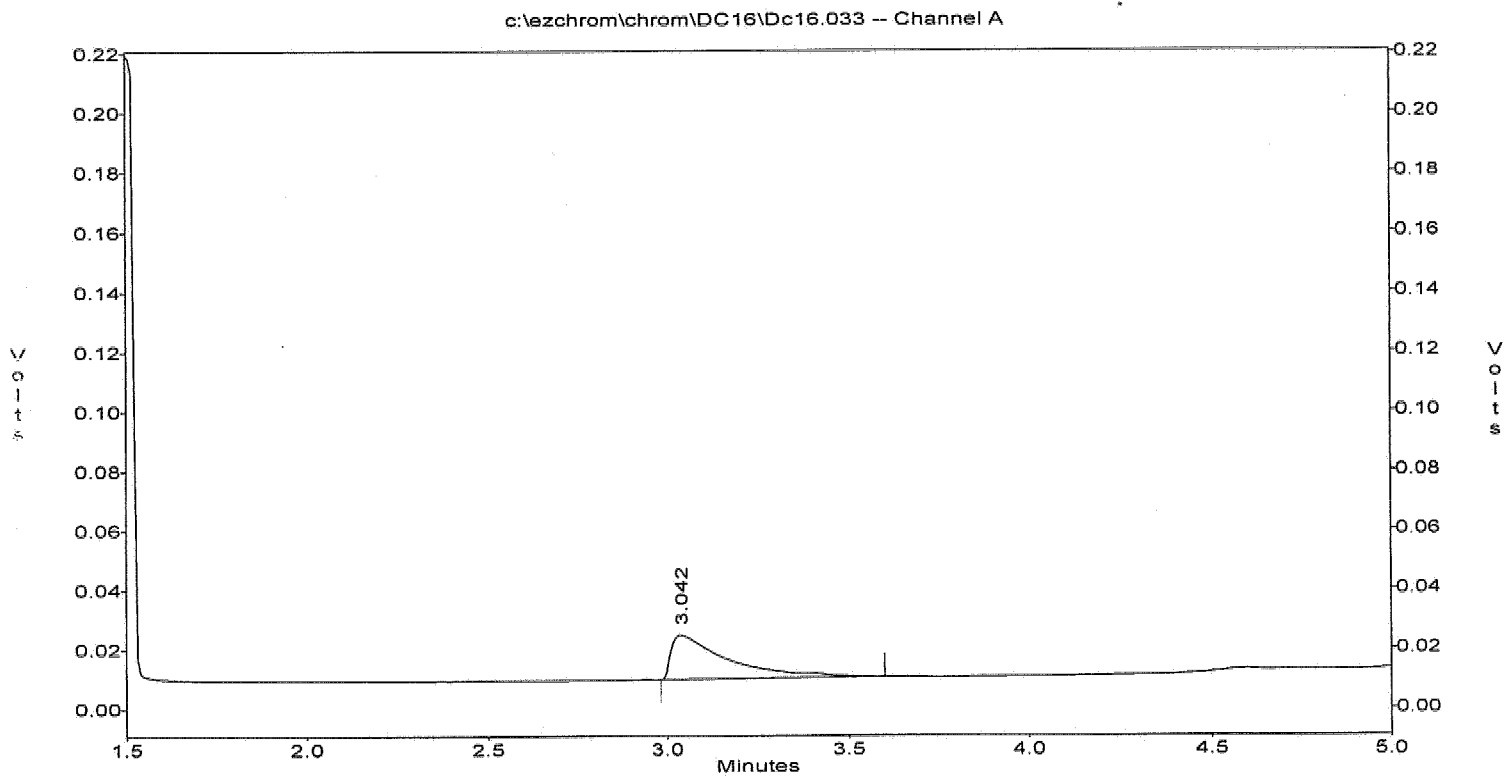
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Ethylene Glycol	3.042	2.803	3.281	50.0	3058.1	158360	51.78	4		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.033
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : CEG43C10035
Acquired : Mar 16, 2006 18:50:57
Printed : Mar 16, 2006 18:57:58
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.042	158360	3058.1	51.8



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LUFTE Revision No. 3 □ Ethenylene Glycol Book # A43-012

Starting Date: 3/10/06 Time: 16:33 Ending Date: 3/10/06 Time: 18:14

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
NA	DC10.023	ID43C021	NA			
	24	EG43C1001			10 ppm	
	25	02			20	
	26	03			50	
	27	04			75	→ Bad inj.
	28	05			100	
	29	04			75	
	30	IEG43C1001			50	
ANALYTICAL BATCH <u>NA</u>						

INITIAL CALIBRATION REFERENCE		Instrument No:	43
Diesel	ID		Date
Motor oil			
JP 5			
Alcohols			
Ethenylene Glycol	EG43C10		3/10/06

Standards		Name	ID	Conc. (mg/L)
CH ₂ Cl ₂				
DCC/Feal	SS9C-07-13-3			10-100
LCS/FCV	SS9C-07-14-1			50

Electronic Data Archival		Location	Date
EFZC_2_Diesel			3/13/06

Comments: _____

Analyzed By: KP

Disposed on: 3/10/06 By: KP

This page is checked during the data review process.

ANALYSIS RUN LOG FOR TPH

Book # A43-012

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LUFTE Revision No. 3 □ Ethylene Glycol

Starting Date: 3/16/06 Time: 17:18 Ending Date: 3/16/06 Time: 18:50

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	INITIAL CALIBRATION REFERENCE		
				S	W		ID	Date	
	DC16.0276	IBU3C034						Instrument No: 43	
EGC008W	27	CEG43C10034	2		50 ppm				
	28	EGC008W PL XP 3/16/06	1	X	50 ppm (20x)				
	29	C							
	30	B							
	31	06C119-01			PK7			Standards EGC43C10 3/10/06	
	32	02							
	33	CEG43C10035	2		50 ppm				
ANALYTICAL BATCH DC16 027									

Electronic Data Archival

Location: _____ Date: _____

Electronic Data Archival

Location: _____ Date: 3/25/06

IV/EZC 2_Diesel

□

Comments: _____

Analyzed By: XP

Disposed on: 3/17/06 By: XP

This page is checked during the data review process.