RTI LABORATORIES, INC.

Analytical Report

Level IV Data Package
RTI Work Order 1103389

Prepared by:

RTI Laboratories, Inc.
31628 Glendale
Livonia, MI 48150

Shaw Environmental & Infrastructure, Inc
Ms. Pamela Moss
74604 Technology Way
Denver, CO 80237

Project: Kirtland AFB
Task Order: 02

Reviewed and Approved By: _____ Date: April 18, 2011
Charles O'Bryan, Director Quality Management

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RTI Laboratories, Inc. Project # 1103389

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RTI Laboratories, Inc.

Date: *18-Apr.-11*

CLIENT: Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
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CASE NARRATIVE

SAMPLE RECEIPT:
Samples were received at the RTI Laboratory, Livonia, MI via commercial delivery on 3/11/2011. Samples were received in good condition. The sample set consisted of 38 air samples.

SAMPLE ANALYSIS:
Samples were analyzed at the RTI Livonia Laboratory for:
Volatile Organic Compounds – EPA Method TO15
Air-Phase Petroleum Hydrocarbons – MA_APH (Massachusetts DEP APH Method)
Fixed Gases (Noncondensable Gases/Light Hydrocarbons) – ASTM D2504

QUALITY CONTROL:

Volatile Organic Compounds Analyses:

All sample analyses included a Method Blank, CCV, RLVS (CRQL) and Duplicate. All QC parameters were within established control limits except where noted on the QC forms or below. Initial and continuing calibration results were within method specifications. MS tuning parameters were within the acceptable ranges for the method.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39600, 4/1/11: Recoveries for 1,1,2,2-Tetrachloroethane, 2-Hexanone, Benzyl Chloride, Bromomethane and Hexachlorobutadiene exceeded the 30% criteria.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39618, 4/2/11: Recoveries for 1,1,2,2-Tetrachloroethane, 2-Hexanone, Benzyl Chloride and Bromomethane exceeded the 30% criteria.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39639, 4/5/11: Recoveries for 1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, Benzyl Chloride, Bromomethane, Hexachlorobutadiene and Vinyl acetate exceeded the 30% criteria.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39665, 4/6/11: Recoveries for 1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, Benzyl Chloride, Bromomethane, Hexachlorobutadiene and Vinyl acetate exceeded the 30% criteria.

Surrogate recoveries were within established control limits.

Sample ID 1103389-022: Cyclohexane, Heptane and n-Hexane concentrations exceed the upper calibration range. Results are estimated.

RTI Laboratories, Inc. Date: *18-Apr.-11*

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CASE NARRATIVE

Sample ID 1103389-023: Cyclohexane and n-Hexane concentrations exceed the upper calibration range. Results are estimated.

Sample ID 1103389-027: Cyclohexane and Heptane concentrations exceed the upper calibration range. Results are estimated.

Sample ID 1103389-038: n-Hexane concentrations exceed the upper calibration range. Results are estimated.

Sample ID 1103389-037: Low internal standard responses for Bromochloromethane and 1,4-Difluorobenzene.

Analytical Sequence ID 39665:

- Analytical Comments for METHOD EPA_TO15-UG/M3, SAMPLE TO15 RLVS 40cc v, Batch ID R39665: Some compounds affected by carryover from high contamination of previously run sample. Recoveries elevated.

Air-Phase Petroleum Hydrocarbons Analyses:

All sample analyses included a Method Blank, LCS, LCSD and Duplicate, where applicable. All QC parameters were within established control limits except where noted on the QC summary forms or below. Initial and continuing calibration results were within method specifications.

Surrogate recoveries were within established control limits.

Analytical Sequence ID 39774:

- RLVS 4/9/2011 8:11:00pm: No injection of sample. Auto sampler program error. Reran RLVS later in run.
- Line 20 1103389-007B actually run after Line 27 1103389-014B. Injection log sorts by file name, not by time.

Fixed Gases (Noncondensable Gases/Light Hydrocarbons) Analyses:

All sample analyses included a Method Blank, LCS, LCSD and Duplicate, where applicable. All QC parameters were within established control limits except where noted on the QC summary forms or below. Initial and continuing calibration results were within method specifications.

Samples collected in Tedlar bags have a limited holding time as specified by the manufacturer for the collection of volatile organic compounds. There is no known stability data for the analytes of interest for this project collected in Tedlar bags. The standard holding time is 48 hours for Tedlar bags. Due to the nature of the project sample analysis within 48 hours was not feasible

RTI Laboratories, Inc.

Date: *18-Apr.-11*

CLIENT: Shaw Environmental & Infrastructure, Inc.
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CASE NARRATIVE

No other problems were noted during the analytical events associated with this project.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signed: _____ Date: 4/18/2011
Charles O'Bryan, Director, Quality Management

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Shaw E & I, Inc.

1103389

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705 SV002
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Project Number: 140705
Project Name: Hurlburt AFB
Sample Coordinator: Mark Tyson
Turnaround Time:

Samples Shipment Date: 07 MAR 2011
Lab Destination: RTI Laboratories
Lab Contact: Mike Trochen
Project Contact: Pamela Moss
Carrier/Waybill No: UPS/SHIP RECORD 1Z77 8230 00

Bill To: Shaw Environmental Inc. - Accounts P
PO Box 95519
Baton Rouge LA 70884

Report To: Pamela Moss
7004 Technology Way Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Identification:
Non-hazard | Flammable X | Skin Irritant | Poison B | Radiological Unknown

Sample Disposal:
Return to Client | Disposal by Lab X | Archive | (mos.)

1. Relinquished By (Signature/Affiliation): Mark Tyson Shaw E&I
Date: 3/7/2011
Time: 1630

1. Received By (Signature/Affiliation): RTI Labs
Date: 3-11-11
Time: 09:18

2. Relinquished By (Signature/Affiliation)
Date:
Time:

2. Received By (Signature/Affiliation)
Date:
Time:

3. Relinquished By (Signature/Affiliation)
Date:
Time:

3. Received By (Signature/Affiliation)
Date
Time

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fd	CID	Condition On Receipt
VA001	SWMU 5 GP5 VA001 1 FD	02 MAR 2011	09:01	1 L BOTTLE VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA001	SWMU 5 GP5 VA001 1 FD	02 MAR 2011	09:01	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA002	SWMU 5 GP5 VA002 1 FD	02 MAR 2011	09:46	1 L BOTTLE VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA002	SWMU 5 GP5 VA002 1 FD	02 MAR 2011	09:46	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA003	SWMU 5 GP5 VA003 1 FD	02 MAR 2011	10:45	1 L BOTTLE VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA003	SWMU 5 GP5 VA003 1 FD	02 MAR 2011	10:45	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA004	SWMU 5 GP5 VA004 1 FD	02 MAR 2011	11:14	1 L BOTTLE VAC	1	None Required	Air Phase Petroleum Hydrocarbons by			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No 140705-SV002

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							MA DEP VOCs / TPH by TO-15					
VA0004	SVMW-01-05 VA0004 REG	02 MAR 2011	11:14	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0005	SVMW-02-05 VA0005 REG	04 MAR 2011	14:13	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0006	SVMW-02-05 VA0006 REG	04 MAR 2011	14:13	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0007	SVMW-03-05 VA0007 FD	04 MAR 2011	14:50	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0008	SVMW-03-05 VA0008 FD	04 MAR 2011	14:50	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0009	SVMW-03-05 VA0009 REG	04 MAR 2011	15:26	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0010	SVMW-03-05 VA0010 REG	04 MAR 2011	15:26	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0011	SVMW-04-05 VA0011 REG	02 MAR 2011	12:27	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0012	SVMW-04-05 VA0012 REG	02 MAR 2011	12:27	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0013	SVMW-04-05 VA0013 FD	02 MAR 2011	12:27	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0014	SVMW-04-05 VA0014 FD	02 MAR 2011	12:27	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0015	SVMW-04-05 VA0015 REG	02 MAR 2011	13:13	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0016	SVMW-04-05 VA0016 REG	02 MAR 2011	13:13	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0017	SVMW-04-05 VA0017 REG	02 MAR 2011	13:49	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0018	SVMW-04-05 VA0018 REG	02 MAR 2011	13:49	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0019	SVMW-04-05 VA0019 REG	02 MAR 2011	14:21	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0020	SVMW-04-05 VA0020 REG	02 MAR 2011	14:21	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0021	SVMW-04-05 VA0021 REG	01 MAR 2011	12:34	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0022	SVMW-04-05 VA0022 REG	01 MAR 2011	12:34	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0023	SVMW-05-05 VA0023 REG	01 MAR 2011	13:09	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0024	SVMW-05-05 VA0024 REG	01 MAR 2011	13:09	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0025	SVMW-06-05 VA0025 REG	01 MAR 2011	13:44	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0026	SVMW-06-05 VA0026 REG	01 MAR 2011	13:44	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0027	SVMW-07-05 VA0027 REG	01 MAR 2011	14:17	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0028	SVMW-07-05 VA0028 REG	01 MAR 2011	14:17	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0029	SVMW-07-05 VA0029 REG	04 MAR 2011	08:51	1 L	BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP VOCs / TPH by TO-15			N		
VA0030	SVMW-07-05 VA0030 REG	04 MAR 2011	08:51	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV002

Sample No	Sample Name	Sample Date	Sample Time		Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	GID	Condition On Receipt
[illegible]	[illegible]	04 MAR 2011	09:30	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	04 MAR 2011	09:30	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	04 MAR 2011	10:05	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	04 MAR 2011	10:05	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	04 MAR 2011	10:05	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	04 MAR 2011	10:05	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	04 MAR 2011	12:05	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	04 MAR 2011	12:05	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	04 MAR 2011	13:00	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	04 MAR 2011	13:00	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	04 MAR 2011	13:45	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	04 MAR 2011	13:45	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	09:00	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	09:00	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	09:40	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	09:40	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	09:40	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	09:40	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	10:32	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	10:32	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	11:07	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	11:07	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	11:10	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	11:10	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	11:48	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	11:48	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
[illegible]	[illegible]	05 MAR 2011	12:35	1 L	BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
[illegible]	[illegible]	05 MAR 2011	12:35	1 L	Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV002

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
VA[illegible]	[illegible]	[illegible]	13:07	1 L	BOTTLE VAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA[illegible]	[illegible]	[illegible]	13:07	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA[illegible]	[illegible]	[illegible]	11:17	1 L	BOTTLE VAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA[illegible]	[illegible]	[illegible]	11:17	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA[illegible]	[illegible]	[illegible]	11:17	1 L	BOTTLE VAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA[illegible]	[illegible]	[illegible]	11:17	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA[illegible]	[illegible]	[illegible]	10:38	1 L	BOTTLE VAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA[illegible]	[illegible]	[illegible]	10:38	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA[illegible]	[illegible]	[illegible]	9:58	1 L	BOTTLE VAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA[illegible]	[illegible]	[illegible]	9:58	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA[illegible]	[illegible]	[illegible]	9:07	1 L	BOTTLE VAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA[illegible]	[illegible]	[illegible]	9:07	1 L	Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA[illegible] TB	[illegible]	[illegible]	12:00	1 L	BOTTLE VAC	1 None Required	VOCs / TPH by TO-15			N		

T - 10

UPST 743000

Door : 1249
MI 48150
MI 482 9-02

31628 GLENDALE ST

LIVONIA MI 48150

P: RED2 S: MNITE I: 3

19F – FL2

UPS GROUND

1Z66V6900340022217

P3C0044 0083267 Mar 10 03 26 30 2011 US 06059 N

CUSTODY SEAL

QEC

Quality Environmental Containers
800 255-3353 • 304 255-3900

DATE 3-7-11

SIGNATURE

Amber Bottle Vac's

T - 10 Door : 1249
MI 48150
UPST 743000 MI 482 9-02

UPS GROUND

1Z66V6900340940234

P300044 0083267 Mar 10 00 26 34 2011 US 05059 N

RTI LABORATORIES
31628 GLENDALE ST
LIVONIA MI 48150

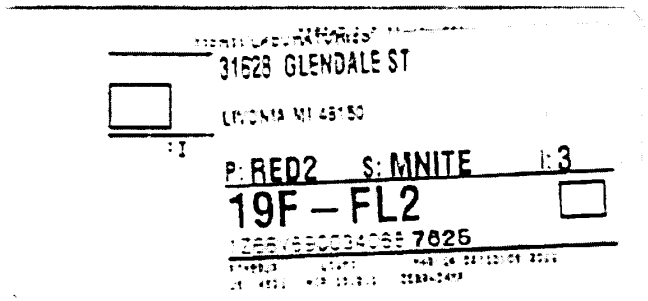
P: BED2 S: MNITE 1:3
19F – FL2

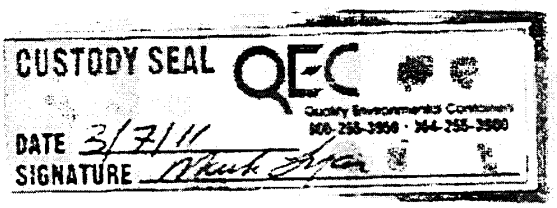
10234

CUSTODY SEAL QEC

DATE 3/2/11
SIGNATURE

Toddler Bags





31628 GLENDALE ST

LIVONIA MI 48150

P: RED2 S: MNITE I: 3

19F – FL2

1Z66V690034066 7625

CUSTODY SEAL QEC

Quality Environmental Containers

800-255-3950 · 364-255-3900

DATE 3/7/11

SIGNATURE [signature]

Sample Nos.
6, 20, 24
25, 26, 27

Bottle VAC 5 [illegible]

7, 29, 12
[illegible] 5

Rec. 3-14-11
09:20
[signature]

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Sample Receipt Checklist

Client Name: **SHA04** Date and Time Received: **3/14/2011 9:20:00 AM**

Work Order Number **1103389** RcptNo: **1** Received by: **Armando Flores**

Completed by: Reviewed by:

Completed Date: 3/14/2011 4:13:26 PM Reviewed Date:

Carrier name: UPS

Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Present	☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐		
Is it clear what analyses were requested?	Yes ☑	No ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present	☑
Samples in proper container/bottle?	Yes ☑	No ☐		
Were correct preservatives used and noted?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Was an attempt made to cool the samples?	Yes ☐	No ☑		
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑		
Response when temperature is outside of range:	Not required			
Preservative added to bottles:				
Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☑	To	°C
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials	☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA	☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	No Water	☑
Are Samples considered acceptable?	Yes ☑	No ☐		
Custody Seals present?	Yes ☑	No ☐		
Traffic Report or Packing Lists present?	Yes ☑	No ☐		
Airbill or Sticker?	Air Bill ☑	Sticker ☐	Not Present	☐
Airbill No:	1Z66V6900340022217			
Sample Tags Present?	Yes ☐	No ☑		
Sample Tags Listed on COC?	Yes ☐	No ☑		
Tag Numbers:				
Sample Condition?	Intact ☑	Broken ☐	Leaking	☐

Case Number: SDG: SAS:

Adjusted? _____ Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1103389-001A	Container-1 of 1	Bottle				
1103389-001B	Container-1 of 1	Bottle				
1103389-002A	Container-1 of 1	Bottle				
1103389-002B	Container-1 of 1	Bottle				
1103389-003A	Container-1 of 1	Bottle				
1103389-003B	Container-1 of 1	Bottle				
1103389-004A	Container-1 of 1	Bottle				
1103389-004B	Container-1 of 1	Bottle				
1103389-005A	Container-1 of 1	Bottle				
1103389-005B	Container-1 of 1	Bottle				
1103389-006A	Container-01 of 01	Bottle				
1103389-006B	Container-1 of 1	Bottle				
1103389-007A	Container-01 of 01	Bottle				
1103389-007B	Container-01 of 01	Bottle				
1103389-008A	Container-1 of 1	Bottle				
1103389-008B	Container-1 of 1	Bottle				
1103389-009A	Container-1 of 1	Bottle				
1103389-009B	Container-1 of 1	Bottle				
1103389-010A	Container-1 of 1	Bottle				
1103389-010B	Container-1 of 1	Bottle				
1103389-011A	Container-1 of 1	Bottle				
1103389-011B	Container-1 of 1	Bottle				
1103389-012A	Container-1 of 1	Bottle				
1103389-012B	Container-1 of 1	Bottle				
1103389-013A	Container-1 of 1	Bottle				
1103389-013B	Container-1 of 1	Bottle				
1103389-014A	Container-1 of 1	Bottle				
1103389-014B	Container-1 of 1	Bottle				
1103389-015A	Container-1 of 1	Bottle				
1103389-015B	Container-1 of 1	Bottle				
1103389-016A	Container-1 of 1	Bottle				
1103389-016B	Container-1 of 1	Bottle				
1103389-017A	Container-1 of 1	Bottle				
1103389-017B	Container-1 of 1	Bottle				

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1103389-018A	Container-1 of 1	Bottle				
1103389-018B	Container-1 of 1	Bottle				
1103389-019A	Container-1 of 1	Bottle				
1103389-019B	Container-1 of 1	Bottle				
1103389-020A	Container-1 of 1	Bottle				
1103389-020B	Container-1 of 1	Bottle				
1103389-021A	Container-1 of 1	Bottle				
1103389-021B	Container-1 of 1	Bottle				
1103389-022A	Container-1 of 1	Bottle				
1103389-022B	Container-1 of 1	Bottle				
1103389-023A	Container-01 of 01	Bottle				
1103389-023B	Container-01 of 01	Bottle				
1103389-024A	Container-01 of 01	Bottle				
1103389-024B	Container-1 of 1	Bottle				
1103389-025A	Container-01 of 01	Bottle				
1103389-025B	Container-1 of 1	Bottle				
1103389-026A	Container-01 of 01	Bottle				
1103389-026B	Container-1 of 1	Bottle				
1103389-027A	Container-01 of 01	Bottle				
1103389-027B	Container-1 of 1	Bottle				
1103389-028A	Container-1 of 1	Bottle				
1103389-028B	Container-1 of 1	Bottle				
1103389-029A	Container-1 of 1	Bottle				
1103389-029B	Container-1 of 1	Bottle				
1103389-030A	Container-1 of 1	Bottle				
1103389-030B	Container-1 of 1	Bottle				
1103389-031A	Container-1 of 1	Bottle				
1103389-031B	Container-1 of 1	Bottle				
1103389-032A	Container-1 of 1	Bottle				
1103389-032B	Container-1 of 1	Bottle				
1103389-033A	Container-1 of 1	Bottle				
1103389-033B	Container-1 of 1	Bottle				
1103389-034A	Container-1 of 1	Bottle				
1103389-034B	Container-1 of 1	Bottle				

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1103389-035A	Container-1 of 1	Bottle				
1103389-035B	Container-1 of 1	Bottle				
1103389-036A	Container-1 of 1	Bottle				
1103389-036B	Container-1 of 1	Bottle				
1103389-037A	Container-1 of 1	Bottle				
1103389-037B	Container-1 of 1	Bottle				
1103389-038A	Container-01 of 01	Bottle				

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
Cardboard B	n/a	Good	Yes		3/7/2011	See COC

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client Contacted? ☐ Yes ☑ No ☐ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Comments: Amber Bottle Vac's

Client Instructions:

Date Contacted: Contacted By:

Regarding:

CorrectiveAction:

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Workorder Sample Summary

WO#: 1103389

17-Apr-11

CLIENT: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1103389-001	SVMW-01-GS-VA0001-REG		3/2/2011 9:01:00 AM	3/11/2011 9:18:00 AM	Air
1103389-001	SVMW-01-GS-VA0001-REG		3/2/2011 9:01:00 AM	3/11/2011 9:18:00 AM	Air
1103389-002	SVMW-01-GS-VA0002-REG		3/2/2011 9:46:00 AM	3/11/2011 9:18:00 AM	Air
1103389-002	SVMW-01-GS-VA0002-REG		3/2/2011 9:46:00 AM	3/11/2011 9:18:00 AM	Air
1103389-003	SVMW-01-GS-VA0003-REG		3/2/2011 10:45:00 AM	3/11/2011 9:18:00 AM	Air
1103389-003	SVMW-01-GS-VA0003-REG		3/2/2011 10:45:00 AM	3/11/2011 9:18:00 AM	Air
1103389-004	SVMW-01-GS-VA0004-REG		3/2/2011 11:14:00 AM	3/11/2011 9:18:00 AM	Air
1103389-004	SVMW-01-GS-VA0004-REG		3/2/2011 11:14:00 AM	3/11/2011 9:18:00 AM	Air
1103389-005	SVMW-02-GS-VA0005-REG		3/4/2011 2:13:00 PM	3/11/2011 9:18:00 AM	Air
1103389-005	SVMW-02-GS-VA0005-REG		3/4/2011 2:13:00 PM	3/11/2011 9:18:00 AM	Air
1103389-006	SVMW-02-GS-VA0007-FD		3/4/2011 2:50:00 PM	3/11/2011 9:18:00 AM	Air
1103389-006	SVMW-02-GS-VA0007-FD		3/4/2011 2:50:00 PM	3/14/2011 9:20:00 AM	Air
1103389-007	SVMW-02-GS-VA0008-REG		3/4/2011 3:26:00 PM	3/11/2011 9:18:00 AM	Air
1103389-007	SVMW-02-GS-VA0008-REG		3/4/2011 3:26:00 PM	3/11/2011 9:18:00 AM	Air
1103389-008	SVMW-04-GS-VA0013-REG		3/2/2011 12:27:00 PM	3/11/2011 9:18:00 AM	Air
1103389-008	SVMW-04-GS-VA0013-REG		3/2/2011 12:27:00 PM	3/11/2011 9:18:00 AM	Air
1103389-009	SVMW-04-GS-VA0014-FD		3/2/2011 12:27:00 PM	3/11/2011 9:18:00 AM	Air
1103389-009	SVMW-04-GS-VA0014-FD		3/2/2011 12:27:00 PM	3/11/2011 9:18:00 AM	Air
1103389-010	SVMW-04-GS-VA0015-REG		3/2/2011 1:13:00 PM	3/11/2011 9:18:00 AM	Air
1103389-010	SVMW-04-GS-VA0015-REG		3/2/2011 1:13:00 PM	3/11/2011 9:18:00 AM	Air
1103389-011	SVMW-04-GS-VA0016-REG		3/2/2011 1:49:00 PM	3/11/2011 9:18:00 AM	Air
1103389-011	SVMW-04-GS-VA0016-REG		3/2/2011 1:49:00 PM	3/11/2011 9:18:00 AM	Air
1103389-012	SVMW-04-GS-VA0017-REG		3/2/2011 2:21:00 PM	3/11/2011 9:18:00 AM	Air
1103389-012	SVMW-04-GS-VA0017-REG		3/2/2011 2:21:00 PM	3/11/2011 9:18:00 AM	Air
1103389-013	SVMW-05-GS-VA0018-REG		3/1/2011 12:34:00 PM	3/11/2011 9:18:00 AM	Air
1103389-013	SVMW-05-GS-VA0018-REG		3/1/2011 12:34:00 PM	3/11/2011 9:18:00 AM	Air
1103389-014	SVMW-05-GS-VA0019-REG		3/1/2011 1:09:00 PM	3/11/2011 9:18:00 AM	Air
1103389-014	SVMW-05-GS-VA0019-REG		3/1/2011 1:09:00 PM	3/11/2011 9:18:00 AM	Air
1103389-015	SVMW-05-GS-VA0020-REG		3/1/2011 1:44:00 PM	3/11/2011 9:18:00 AM	Air
1103389-015	SVMW-05-GS-VA0020-REG		3/1/2011 1:44:00 PM	3/11/2011 9:18:00 AM	Air
1103389-016	SVMW-05-GS-VA0021-REG		3/1/2011 2:17:00 PM	3/11/2011 9:18:00 AM	Air
1103389-016	SVMW-05-GS-VA0021-REG		3/1/2011 2:17:00 PM	3/11/2011 9:18:00 AM	Air
1103389-017	SVMW-07-GS-VA0026-REG		3/4/2011 8:51:00 AM	3/11/2011 9:18:00 AM	Air
1103389-017	SVMW-07-GS-VA0026-REG		3/4/2011 8:51:00 AM	3/11/2011 9:18:00 AM	Air

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Workorder Sample Summary

WO#: 1103389

17-Apr-11

CLIENT: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1103389-018	SVMW-07-GS-VA0027-REG		3/4/2011 9:30:00 AM	3/11/2011 9:18:00 AM	Air
1103389-018	SVMW-07-GS-VA0027-REG		3/4/2011 9:30:00 AM	3/11/2011 9:18:00 AM	Air
1103389-019	SVMW-07-GS-VA0028-REG		3/4/2011 10:05:00 AM	3/11/2011 9:18:00 AM	Air
1103389-019	SVMW-07-GS-VA0028-REG		3/4/2011 10:05:00 AM	3/11/2011 9:18:00 AM	Air
1103389-020	SVMW-07-GS-VA0029-FD		3/4/2011 10:05:00 AM	3/11/2011 9:18:00 AM	Air
1103389-020	SVMW-07-GS-VA0029-FD		3/4/2011 10:05:00 AM	3/14/2011 9:20:00 AM	Air
1103389-021	SVMW-10-GS-VA0038-REG		3/3/2011 12:05:00 PM	3/11/2011 9:18:00 AM	Air
1103389-021	SVMW-10-GS-VA0038-REG		3/3/2011 12:05:00 PM	3/11/2011 9:18:00 AM	Air
1103389-022	SVMW-10-GS-VA0039-REG		3/3/2011 1:00:00 PM	3/11/2011 9:18:00 AM	Air
1103389-022	SVMW-10-GS-VA0039-REG		3/3/2011 1:00:00 PM	3/11/2011 9:18:00 AM	Air
1103389-023	SVMW-10-GS-VA0040-REG		3/3/2011 1:45:00 PM	3/11/2011 9:18:00 AM	Air
1103389-023	SVMW-10-GS-VA0040-REG		3/3/2011 1:45:00 PM	3/11/2011 9:18:00 AM	Air
1103389-024	SVMW-11-GS-VA0042-REG		3/4/2011 9:00:00 AM	3/11/2011 9:18:00 AM	Air
1103389-024	SVMW-11-GS-VA0042-REG		3/4/2011 9:00:00 AM	3/14/2011 9:20:00 AM	Air
1103389-025	SVMW-11-GS-VA0043-REG		3/4/2011 9:40:00 AM	3/11/2011 9:18:00 AM	Air
1103389-025	SVMW-11-GS-VA0043-REG		3/4/2011 9:40:00 AM	3/14/2011 9:20:00 AM	Air
1103389-026	SVMW-11-GS-VA0044-FD		3/4/2011 9:40:00 AM	3/11/2011 9:18:00 AM	Air
1103389-026	SVMW-11-GS-VA0044-FD		3/4/2011 9:40:00 AM	3/14/2011 9:20:00 AM	Air
1103389-027	SVMW-11-GS-VA0045-REG		3/4/2011 10:32:00 AM	3/11/2011 9:18:00 AM	Air
1103389-027	SVMW-11-GS-VA0045-REG		3/4/2011 10:32:00 AM	3/14/2011 9:20:00 AM	Air
1103389-028	SVMW-11-GS-VA0046-REG		3/3/2011 11:07:00 AM	3/11/2011 9:18:00 AM	Air
1103389-028	SVMW-11-GS-VA0046-REG		3/3/2011 11:07:00 AM	3/11/2011 9:18:00 AM	Air
1103389-029	SVMW-12-GS-VA0047-REG		3/4/2011 11:10:00 AM	3/11/2011 9:18:00 AM	Air
1103389-029	SVMW-12-GS-VA0047-REG		3/4/2011 11:10:00 AM	3/11/2011 9:18:00 AM	Air
1103389-030	SVMW-12-GS-VA0048-REG		3/4/2011 11:48:00 AM	3/11/2011 9:18:00 AM	Air
1103389-030	SVMW-12-GS-VA0048-REG		3/4/2011 11:48:00 AM	3/11/2011 9:18:00 AM	Air
1103389-031	SVMW-12-GS-VA0049-REG		3/4/2011 12:35:00 PM	3/11/2011 9:18:00 AM	Air
1103389-031	SVMW-12-GS-VA0049-REG		3/4/2011 12:35:00 PM	3/11/2011 9:18:00 AM	Air
1103389-032	SVMW-12-GS-VA0050-REG		3/4/2011 1:07:00 PM	3/11/2011 9:18:00 AM	Air
1103389-032	SVMW-12-GS-VA0050-REG		3/4/2011 1:07:00 PM	3/11/2011 9:18:00 AM	Air
1103389-033	SVMW-14-GS-VA0056-REG		3/1/2011 11:17:00 AM	3/11/2011 9:18:00 AM	Air
1103389-033	SVMW-14-GS-VA0056-REG		3/1/2011 11:17:00 AM	3/11/2011 9:18:00 AM	Air
1103389-034	SVMW-14-GS-VA0057-FD		3/1/2011 11:17:00 AM	3/11/2011 9:18:00 AM	Air
1103389-034	SVMW-14-GS-VA0057-FD		3/1/2011 11:17:00 AM	3/11/2011 9:18:00 AM	Air

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Workorder Sample Summary

WO#: 1103389

17-Apr-11

CLIENT: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1103389-035	SVMW-14-GS-VA0058-REG		3/1/2011 10:38:00 AM	3/11/2011 9:18:00 AM	Air
1103389-035	SVMW-14-GS-VA0058-REG		3/1/2011 10:38:00 AM	3/11/2011 9:18:00 AM	Air
1103389-036	SVMW-14-GS-VA0059-REG		3/1/2011 9:58:00 AM	3/11/2011 9:18:00 AM	Air
1103389-036	SVMW-14-GS-VA0059-REG		3/1/2011 9:58:00 AM	3/11/2011 9:18:00 AM	Air
1103389-037	SVMW-14-GS-VA0060-REG		3/1/2011 9:07:00 AM	3/11/2011 9:18:00 AM	Air
1103389-037	SVMW-14-GS-VA0060-REG		3/1/2011 9:07:00 AM	3/11/2011 9:18:00 AM	Air
1103389-038	FIELDQC-AQ-VA8002-TB-TB		2/24/2011 12:00:00 PM	3/11/2011 9:18:00 AM	Air

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-001A	SVMW-01-GS-VA0001-REG	3/2/2011 9:01:00 AM	Air	Noncondensable Gases and Light Hydrocarbons			3/22/2011 4:35:00 AM
1103389-001B				Air-Phase Petroleum Hydrocarbons			4/9/2011 9:35:00 PM
				Volatile Organic Compounds			4/2/2011 2:11:00 PM
				Volatile Organic Compounds			4/1/2011 3:47:00 PM
1103389-002A	SVMW-01-GS-VA0002-REG	3/2/2011 9:46:00 AM		Noncondensable Gases and Light Hydrocarbons			3/22/2011 4:55:00 AM
1103389-002B				Air-Phase Petroleum Hydrocarbons			4/9/2011 10:16:00 PM
				Volatile Organic Compounds			4/2/2011 4:56:00 PM
				Volatile Organic Compounds			4/2/2011 4:14:00 PM
				Volatile Organic Compounds			4/2/2011 1:35:00 AM
1103389-003A	SVMW-01-GS-VA0003-REG	3/2/2011 10:45:00 AM		Noncondensable Gases and Light Hydrocarbons			3/22/2011 5:16:00 AM
1103389-003B				Air-Phase Petroleum Hydrocarbons			4/9/2011 11:41:00 PM
				Volatile Organic Compounds			4/2/2011 5:39:00 PM
				Volatile Organic Compounds			4/1/2011 4:32:00 PM
1103389-004A	SVMW-01-GS-VA0004-REG	3/2/2011 11:14:00 AM		Noncondensable Gases and Light Hydrocarbons			3/22/2011 5:38:00 AM
1103389-004B				Air-Phase Petroleum Hydrocarbons			4/10/2011 12:23:00 AM
				Volatile Organic Compounds			4/2/2011 6:21:00 PM
				Volatile Organic Compounds			4/1/2011 6:40:00 PM
1103389-005A	SVMW-02-GS-VA0005-REG	3/4/2011 2:13:00 PM		Noncondensable Gases and Light Hydrocarbons			3/22/2011 5:57:00 AM
1103389-005B				Air-Phase Petroleum Hydrocarbons			4/10/2011 1:05:00 AM
				Volatile Organic Compounds			4/1/2011 7:23:00 PM
				Volatile Organic Compounds			4/2/2011 7:02:00 PM

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DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-006A	SVMW-02-GS-VA0007-FD	3/4/2011 2:50:00 PM	Air	Noncondensable Gases and Light Hydrocarbons			3/22/2011 6:20:00 AM
1103389-006B				Air-Phase Petroleum Hydrocarbons			4/10/2011 1:47:00 AM
				Volatile Organic Compounds			4/1/2011 8:05:00 PM
				Volatile Organic Compounds			4/2/2011 7:43:00 PM
1103389-007A	SVMW-02-GS-VA0008-REG	3/4/2011 3:26:00 PM		Noncondensable Gases and Light Hydrocarbons			3/22/2011 6:39:00 AM
1103389-007B				Air-Phase Petroleum Hydrocarbons			4/10/2011 7:15:00 AM
				Volatile Organic Compounds			4/2/2011 8:24:00 PM
				Volatile Organic Compounds			4/1/2011 8:45:00 PM
1103389-008A	SVMW-04-GS-VA0013-REG	3/2/2011 12:27:00 PM		Noncondensable Gases and Light Hydrocarbons			3/22/2011 6:59:00 AM
1103389-008B				Air-Phase Petroleum Hydrocarbons			4/10/2011 2:28:00 AM
				Volatile Organic Compounds			4/1/2011 9:26:00 PM
1103389-009A	SVMW-04-GS-VA0014-FD			Noncondensable Gases and Light Hydrocarbons			3/23/2011 1:01:00 AM
1103389-009B				Air-Phase Petroleum Hydrocarbons			4/10/2011 3:09:00 AM
				Volatile Organic Compounds			4/1/2011 10:07:00 PM
1103389-010A	SVMW-04-GS-VA0015-REG	3/2/2011 1:13:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 1:21:00 AM
1103389-010B				Air-Phase Petroleum Hydrocarbons			4/10/2011 3:49:00 AM
				Volatile Organic Compounds			4/1/2011 10:47:00 PM
				Volatile Organic Compounds			4/5/2011 3:06:00 PM
				Volatile Organic Compounds			4/2/2011 9:05:00 PM
1103389-011A	SVMW-04-GS-VA0016-REG	3/2/2011 1:49:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 2:14:00 AM
1103389-011B				Air-Phase Petroleum Hydrocarbons			4/10/2011 10:57:00 AM

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-011B	SVMW-04-GS-VA0016-REG	3/2/2011 1:49:00 PM	Air	Volatile Organic Compounds			4/1/2011 11:28:00 PM
1103389-012A	SVMW-04-GS-VA0017-REG	3/2/2011 2:21:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 2:51:00 AM
1103389-012B				Air-Phase Petroleum Hydrocarbons			4/10/2011 5:12:00 AM
				Volatile Organic Compounds			4/2/2011 10:28:00 PM
				Volatile Organic Compounds			4/2/2011 12:11:00 AM
1103389-013A	SVMW-05-GS-VA0018-REG	3/1/2011 12:34:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 3:11:00 AM
1103389-013B				Air-Phase Petroleum Hydrocarbons			4/10/2011 5:53:00 AM
				Volatile Organic Compounds			4/1/2011 5:14:00 PM
1103389-014A	SVMW-05-GS-VA0019-REG	3/1/2011 1:09:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 3:32:00 AM
1103389-014B				Air-Phase Petroleum Hydrocarbons			4/10/2011 6:34:00 AM
				Volatile Organic Compounds			4/2/2011 11:09:00 PM
				Volatile Organic Compounds			4/2/2011 12:54:00 AM
1103389-015A	SVMW-05-GS-VA0020-REG	3/1/2011 1:44:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 3:53:00 AM
1103389-015B				Air-Phase Petroleum Hydrocarbons			4/10/2011 11:38:00 AM
				Volatile Organic Compounds			4/2/2011 2:52:00 PM
1103389-016A	SVMW-05-GS-VA0021-REG	3/1/2011 2:17:00 PM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 4:23:00 AM
1103389-016B				Air-Phase Petroleum Hydrocarbons			4/10/2011 1:00:00 PM
				Volatile Organic Compounds			4/2/2011 11:51:00 PM
1103389-017A	SVMW-07-GS-VA0026-REG	3/4/2011 8:51:00 AM		Noncondensable Gases and Light Hydrocarbons			3/23/2011 4:55:00 AM
1103389-017B				Air-Phase Petroleum Hydrocarbons			4/10/2011 1:42:00 PM
				Volatile Organic Compounds			4/3/2011 12:33:00 AM

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DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-018A	SVMW-07-GS-VA0027-REG	3/4/2011 9:30:00 AM	Air	Noncondensable Gases and Light Hydrocarbons			3/23/2011 5:22:00 AM
1103389-018B				Air-Phase Petroleum Hydrocarbons			4/10/2011 2:23:00 PM
				Volatile Organic Compounds			4/6/2011 4:27:00 PM
1103389-019A	SVMW-07-GS-VA0028-REG	3/4/2011 10:05:00 AM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 12:42:00 AM
1103389-019B				Air-Phase Petroleum Hydrocarbons			4/10/2011 3:04:00 PM
				Volatile Organic Compounds			4/6/2011 5:50:00 PM
1103389-020A	SVMW-07-GS-VA0029-FD			Noncondensable Gases and Light Hydrocarbons			3/24/2011 1:04:00 AM
1103389-020B				Air-Phase Petroleum Hydrocarbons			4/10/2011 3:47:00 PM
				Volatile Organic Compounds			4/6/2011 7:15:00 PM
1103389-021A	SVMW-10-GS-VA0038-REG	3/3/2011 12:05:00 PM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 1:28:00 AM
1103389-021B				Air-Phase Petroleum Hydrocarbons			4/10/2011 4:28:00 PM
				Volatile Organic Compounds			4/6/2011 7:58:00 PM
				Volatile Organic Compounds			4/5/2011 4:30:00 PM
1103389-022A	SVMW-10-GS-VA0039-REG	3/3/2011 1:00:00 PM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 1:53:00 AM
1103389-022B				Air-Phase Petroleum Hydrocarbons			4/10/2011 5:09:00 PM
				Volatile Organic Compounds			4/5/2011 8:04:00 PM
				Volatile Organic Compounds			4/6/2011 9:23:00 PM
1103389-023A	SVMW-10-GS-VA0040-REG	3/3/2011 1:45:00 PM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 2:14:00 AM
1103389-023B				Air-Phase Petroleum Hydrocarbons			4/10/2011 5:50:00 PM
				Volatile Organic Compounds			4/5/2011 8:49:00 PM
				Volatile Organic Compounds			4/6/2011 10:06:00 PM

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DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-024A	SVMW-11-GS-VA0042-REG	3/4/2011 9:00:00 AM	Air	Noncondensable Gases and Light Hydrocarbons			3/24/2011 3:13:00 AM
1103389-024B				Air-Phase Petroleum Hydrocarbons			4/10/2011 6:31:00 PM
				Volatile Organic Compounds			4/5/2011 9:34:00 PM
1103389-025A	SVMW-11-GS-VA0043-REG	3/4/2011 9:40:00 AM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 3:39:00 AM
1103389-025B				Air-Phase Petroleum Hydrocarbons			4/11/2011 1:24:00 PM
				Volatile Organic Compounds			4/5/2011 10:19:00 PM
				Volatile Organic Compounds			4/6/2011 10:48:00 PM
1103389-026A	SVMW-11-GS-VA0044-FD			Noncondensable Gases and Light Hydrocarbons			3/24/2011 4:08:00 AM
1103389-026B				Air-Phase Petroleum Hydrocarbons			4/11/2011 2:45:00 PM
				Volatile Organic Compounds			4/6/2011 11:31:00 PM
				Volatile Organic Compounds			4/5/2011 11:04:00 PM
1103389-027A	SVMW-11-GS-VA0045-REG	3/4/2011 10:32:00 AM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 4:29:00 AM
1103389-027B				Air-Phase Petroleum Hydrocarbons			4/11/2011 3:25:00 PM
				Volatile Organic Compounds			4/6/2011 12:33:00 AM
				Volatile Organic Compounds			4/7/2011 12:13:00 AM
1103389-028A	SVMW-11-GS-VA0046-REG	3/3/2011 11:07:00 AM		Noncondensable Gases and Light Hydrocarbons			3/24/2011 4:55:00 AM
1103389-028B				Air-Phase Petroleum Hydrocarbons			4/11/2011 4:06:00 PM
				Volatile Organic Compounds			4/6/2011 1:18:00 AM
1103389-029A	SVMW-12-GS-VA0047-REG	3/4/2011 11:10:00 AM		Noncondensable Gases and Light Hydrocarbons			3/25/2011 1:21:00 AM
1103389-029B				Air-Phase Petroleum Hydrocarbons			4/11/2011 4:47:00 PM
				Volatile Organic Compounds			4/6/2011 2:49:00 AM

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DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-030A	SVMW-12-GS-VA0048-REG	3/4/2011 11:48:00 AM	Air	Noncondensable Gases and Light Hydrocarbons			3/25/2011 1:51:00 AM
1103389-030B				Air-Phase Petroleum Hydrocarbons			4/11/2011 5:27:00 PM
				Volatile Organic Compounds			4/6/2011 3:33:00 AM
1103389-031A	SVMW-12-GS-VA0049-REG	3/4/2011 12:35:00 PM		Noncondensable Gases and Light Hydrocarbons			3/25/2011 2:12:00 AM
1103389-031B				Air-Phase Petroleum Hydrocarbons			4/11/2011 6:08:00 PM
				Volatile Organic Compounds			4/2/2011 2:16:00 AM
1103389-032A	SVMW-12-GS-VA0050-REG	3/4/2011 1:07:00 PM		Noncondensable Gases and Light Hydrocarbons			3/25/2011 2:31:00 AM
1103389-032B				Air-Phase Petroleum Hydrocarbons			4/11/2011 6:47:00 PM
				Volatile Organic Compounds			4/2/2011 9:11:00 AM
1103389-033A	SVMW-14-GS-VA0056-REG	3/1/2011 11:17:00 AM		Noncondensable Gases and Light Hydrocarbons			3/25/2011 3:37:00 AM
1103389-033B				Air-Phase Petroleum Hydrocarbons			4/11/2011 7:28:00 PM
				Volatile Organic Compounds			4/2/2011 8:28:00 AM
1103389-034A	SVMW-14-GS-VA0057-FD			Noncondensable Gases and Light Hydrocarbons			3/25/2011 4:30:00 AM
1103389-034B				Air-Phase Petroleum Hydrocarbons			4/11/2011 8:09:00 PM
				Volatile Organic Compounds			4/5/2011 5:13:00 PM
1103389-035A	SVMW-14-GS-VA0058-REG	3/1/2011 10:38:00 AM		Noncondensable Gases and Light Hydrocarbons			3/25/2011 4:54:00 AM
1103389-035B				Air-Phase Petroleum Hydrocarbons			4/11/2011 8:49:00 PM
				Volatile Organic Compounds			4/5/2011 5:54:00 PM
1103389-036A	SVMW-14-GS-VA0059-REG	3/1/2011 9:58:00 AM		Noncondensable Gases and Light Hydrocarbons			3/25/2011 5:16:00 AM
1103389-036B				Air-Phase Petroleum Hydrocarbons			4/14/2011 11:11:00 AM
				Volatile Organic Compounds			4/5/2011 6:36:00 PM

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DATES REPORT

WO#: 1103389

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103389-037A	SVMW-14-GS-VA0060-REG	3/1/2011 9:07:00 AM	Air	Noncondensable Gases and Light Hydrocarbons			3/25/2011 5:36:00 AM
1103389-037B				Air-Phase Petroleum Hydrocarbons			4/14/2011 2:00:00 PM
				Volatile Organic Compounds			4/5/2011 7:19:00 PM
1103389-038A	FIELDQC-AQ-VA8002-TB-TB	2/24/2011 12:00:00 PM		Volatile Organic Compounds			4/6/2011 2:04:00 AM

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 9:01:00 AM

Project: Kirtland AFB

Lab ID: 1103389-001 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0001-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.9	0.30	H	%	1	3/22/2011 4:35:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 4:35:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 4:35:00 AM
Nitrogen	81	1.4	H	%	1	3/22/2011 4:35:00 AM
Oxygen	11	0.080	H	%	1	3/22/2011 4:35:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,1,2,2-Tetrachloroethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	13	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,1,2-Trichloroethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,1-Dichloroethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,1-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,2,4-Trichlorobenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,2,4-Trimethylbenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,2-Dibromoethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,2-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,2-Dichloroethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,2-Dichloropropane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,3,5-Trimethylbenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,3-Butadiene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,3-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,4-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
1,4-Dioxane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
2-Butanone	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
2-Hexanone	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
2-Propanol	110	10	H	ppbv	10	4/1/2011 3:47:00 PM
4-Ethyltoluene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
4-Methyl-2-pentanone	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Acetone	140	10	H	ppbv	10	4/1/2011 3:47:00 PM
Benzene	150	10	H	ppbv	10	4/1/2011 3:47:00 PM
Benzyl chloride	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Bromodichloromethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 9:01:00 AM

Project: Kirtland AFB

Lab ID: 1103389-001 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0001-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Bromomethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Carbon disulfide	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Carbon tetrachloride	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Chlorobenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Chlorodibromomethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Chloroethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Chloroform	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Chloromethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
cis-1,2-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
cis-1,3-dichloropropene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Cyclohexane	230	20	H	ppbv	20	4/2/2011 2:11:00 PM
Dichlorodifluoromethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Ethanol	11	10	H	ppbv	10	4/1/2011 3:47:00 PM
Ethyl acetate	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Ethylbenzene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Heptane	69	10	H	ppbv	10	4/1/2011 3:47:00 PM
Hexachlorobutadiene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
m,p-Xylene	ND	20	H	ppbv	10	4/1/2011 3:47:00 PM
Methylene chloride	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Naphthalene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
n-Hexane	210	20	H	ppbv	20	4/2/2011 2:11:00 PM
o-Xylene	11	10	H	ppbv	10	4/1/2011 3:47:00 PM
Propylene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Styrene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
tert-Butyl Methyl Ether	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Tetrachloroethene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Tetrahydrofuran	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Toluene	98	10	H	ppbv	10	4/1/2011 3:47:00 PM
trans-1,2-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
trans-1,3-dichloropropene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Trichloroethene	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Trichlorofluoromethane	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Vinyl acetate	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 9:01:00 AM

Project: Kirtland AFB

Lab ID: 1103389-001 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0001-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	10	H	ppbv	10	4/1/2011 3:47:00 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	H	%REC	10	4/1/2011 3:47:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	28,000	9,400	H	µg/m³	80	4/9/2011 9:35:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000	H	µg/m³	80	4/9/2011 9:35:00 PM
C9-C12 Aliphatic Hydrocarbons	47,000	20,000	H	µg/m³	80	4/9/2011 9:35:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	80	4/9/2011 9:35:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 9:46:00 AM

Project: Kirtland AFB

Lab ID: 1103389-002 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0002-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	8.2	0.30	H	%	1	3/22/2011 4:55:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 4:55:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 4:55:00 AM
Nitrogen	81	1.4	H	%	1	3/22/2011 4:55:00 AM
Oxygen	6.6	0.080	H	%	1	3/22/2011 4:55:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Acetone	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Benzene	61,000	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 9:46:00 AM

Project: Kirtland AFB

Lab ID: 1103389-002 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0002-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Cyclohexane	510,000	40,000	H	ppbv	40000	4/2/2011 4:56:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Heptane	190,000	20,000	H	ppbv	20000	4/2/2011 4:14:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Methylene chloride	9,000	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
n-Hexane	610,000	40,000	H	ppbv	40000	4/2/2011 4:56:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Propylene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Toluene	49,000	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/2/2011 1:35:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 9:46:00 AM

Project: Kirtland AFB

Lab ID: 1103389-002 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0002-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8.000	H	ppbv	8000	4/2/2011 1:35:00 AM
Surr: 4-Bromofluorobenzene	96.9	70-130	H	%REC	8000	4/2/2011 1:35:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	18,000,000	4,700,000	H	µg/m³	40000	4/9/2011 10:16:00 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	H	µg/m³	40000	4/9/2011 10:16:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	10,000,000	H	µg/m³	40000	4/9/2011 10:16:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	40000	4/9/2011 10:16:00 PM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 10:45:00 AM

Project: Kirtland AFB

Lab ID: 1103389-003 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0003-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.66	0.30	H	%	1	3/22/2011 5:16:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 5:16:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 5:16:00 AM
Nitrogen	77	1.4	H	%	1	3/22/2011 5:16:00 AM
Oxygen	19	0.080	H	%	1	3/22/2011 5:16:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,1,2,2-Tetrachloroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,1,2-Trichloroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,1-Dichloroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,1-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,2,4-Trichlorobenzene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,2,4-Trimethylbenzene	30	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,2-Dibromoethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,2-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,2-Dichloroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,2-Dichloropropane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,3,5-Trimethylbenzene	16	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,3-Butadiene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,3-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,4-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
1,4-Dioxane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
2-Butanone	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
2-Hexanone	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
2-Propanol	16	10	H	ppbv	10	4/1/2011 4:32:00 PM
4-Ethyltoluene	19	10	H	ppbv	10	4/1/2011 4:32:00 PM
4-Methyl-2-pentanone	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Acetone	37	10	H	ppbv	10	4/1/2011 4:32:00 PM
Benzene	600	200	H	ppbv	200	4/2/2011 5:39:00 PM
Benzyl chloride	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Bromodichloromethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 10:45:00 AM

Project: Kirtland AFB

Lab ID: 1103389-003 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0003-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Bromomethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Carbon disulfide	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Carbon tetrachloride	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Chlorobenzene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Chlorodibromomethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Chloroethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Chloroform	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Chloromethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
cis-1,2-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
cis-1,3-dichloropropene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Cyclohexane	1,700	200	H	ppbv	200	4/2/2011 5:39:00 PM
Dichlorodifluoromethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Ethanol	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Ethyl acetate	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Ethylbenzene	56	10	H	ppbv	10	4/1/2011 4:32:00 PM
Heptane	1,500	200	H	ppbv	200	4/2/2011 5:39:00 PM
Hexachlorobutadiene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
m,p-Xylene	180	20	H	ppbv	10	4/1/2011 4:32:00 PM
Methylene chloride	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Naphthalene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
n-Hexane	1,600	200	H	ppbv	200	4/2/2011 5:39:00 PM
o-Xylene	66	10	H	ppbv	10	4/1/2011 4:32:00 PM
Propylene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Styrene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
tert-Butyl Methyl Ether	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Tetrachloroethene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Tetrahydrofuran	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Toluene	1,900	200	H	ppbv	200	4/2/2011 5:39:00 PM
trans-1,2-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
trans-1,3-dichloropropene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Trichloroethene	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Trichlorofluoromethane	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Vinyl acetate	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 10:45:00 AM

Project: Kirtland AFB

Lab ID: 1103389-003 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0003-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	10	H	ppbv	10	4/1/2011 4:32:00 PM
Surr: 4-Bromofluorobenzene	117	70-130	H	%REC	10	4/1/2011 4:32:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	110,000	23,000	H	µg/m³	200	4/9/2011 11:41:00 PM
C9-C10 Aromatic Hydrocarbons	ND	27,000	H	µg/m³	200	4/9/2011 11:41:00 PM
C9-C12 Aliphatic Hydrocarbons	56,000	50,000	H	µg/m³	200	4/9/2011 11:41:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	H	%REC	200	4/9/2011 11:41:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 11:14:00 AM

Project: Kirtland AFB

Lab ID: 1103389-004 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0004-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.44	0.30	H	%	1	3/22/2011 5:38:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 5:38:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 5:38:00 AM
Nitrogen	77	1.4	H	%	1	3/22/2011 5:38:00 AM
Oxygen	19	0.080	H	%	1	3/22/2011 5:38:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,1,2,2-Tetrachloroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,1,2-Trichloroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,1-Dichloroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,1-Dichloroethene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,2,4-Trichlorobenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,2,4-Trimethylbenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,2-Dibromoethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,2-Dichlorobenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,2-Dichloroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,2-Dichloropropane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,3,5-Trimethylbenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,3-Butadiene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,3-Dichlorobenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,4-Dichlorobenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
1,4-Dioxane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
2-Butanone	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
2-Hexanone	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
2-Propanol	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
4-Ethyltoluene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
4-Methyl-2-pentanone	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Acetone	950	400	H	ppbv	400	4/1/2011 6:40:00 PM
Benzene	14,000	1,600	H	ppbv	1600	4/2/2011 6:21:00 PM
Benzyl chloride	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Bromodichloromethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 11:14:00 AM

Project: Kirtland AFB

Lab ID: 1103389-004 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0004-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Bromomethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Carbon disulfide	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Carbon tetrachloride	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Chlorobenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Chlorodibromomethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Chloroethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Chloroform	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Chloromethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
cis-1,2-Dichloroethene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
cis-1,3-dichloropropene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Cyclohexane	17,000	1,600	H	ppbv	1600	4/2/2011 6:21:00 PM
Dichlorodifluoromethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Ethanol	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Ethyl acetate	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Ethylbenzene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Heptane	4,500	400	H	ppbv	400	4/1/2011 6:40:00 PM
Hexachlorobutadiene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
m,p-Xylene	1,500	800	H	ppbv	400	4/1/2011 6:40:00 PM
Methylene chloride	2,700	400	H	ppbv	400	4/1/2011 6:40:00 PM
Naphthalene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
n-Hexane	19,000	1,600	H	ppbv	1600	4/2/2011 6:21:00 PM
o-Xylene	650	400	H	ppbv	400	4/1/2011 6:40:00 PM
Propylene	1,700	400	H	ppbv	400	4/1/2011 6:40:00 PM
Styrene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
tert-Butyl Methyl Ether	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Tetrachloroethene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Tetrahydrofuran	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Toluene	3,600	400	H	ppbv	400	4/1/2011 6:40:00 PM
trans-1,2-Dichloroethene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
trans-1,3-dichloropropene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Trichloroethene	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Trichlorofluoromethane	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Vinyl acetate	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 11:14:00 AM

Project: Kirtland AFB

Lab ID: 1103389-004 **Matrix:** AIR

Client Sample ID SVMW-01-GS-VA0004-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	400	H	ppbv	400	4/1/2011 6:40:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	400	4/1/2011 6:40:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	2,100,000	230,000	H	µg/m³	2000	4/10/2011 12:23:00 AM
C9-C10 Aromatic Hydrocarbons	ND	270,000	H	µg/m³	2000	4/10/2011 12:23:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	500,000	H	µg/m³	2000	4/10/2011 12:23:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	2000	4/10/2011 12:23:00 AM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:13:00 PM

Project: Kirtland AFB

Lab ID: 1103389-005 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0005-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.8	0.30	H	%	1	3/22/2011 5:57:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 5:57:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 5:57:00 AM
Nitrogen	80	1.4	H	%	1	3/22/2011 5:57:00 AM
Oxygen	12	0.080	H	%	1	3/22/2011 5:57:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,1,2,2-Tetrachloroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,1,2-Trichloroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,1-Dichloroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,1-Dichloroethene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,2,4-Trichlorobenzene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,2,4-Trimethylbenzene	590	400		ppbv	400	4/1/2011 7:23:00 PM
1,2-Dibromoethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,2-Dichlorobenzene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,2-Dichloroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,2-Dichloropropane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,3,5-Trimethylbenzene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,3-Butadiene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,3-Dichlorobenzene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,4-Dichlorobenzene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
1,4-Dioxane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
2-Butanone	720	400		ppbv	400	4/1/2011 7:23:00 PM
2-Hexanone	ND	400		ppbv	400	4/1/2011 7:23:00 PM
2-Propanol	ND	400		ppbv	400	4/1/2011 7:23:00 PM
4-Ethyltoluene	480	400		ppbv	400	4/1/2011 7:23:00 PM
4-Methyl-2-pentanone	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Acetone	2,700	400		ppbv	400	4/1/2011 7:23:00 PM
Benzene	9,300	1,600		ppbv	1600	4/2/2011 7:02:00 PM
Benzyl chloride	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Bromodichloromethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:13:00 PM

Project: Kirtland AFB

Lab ID: 1103389-005 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0005-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Bromomethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Carbon disulfide	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Carbon tetrachloride	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Chlorobenzene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Chlorodibromomethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Chloroethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Chloroform	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Chloromethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
cis-1,2-Dichloroethene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
cis-1,3-dichloropropene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Cyclohexane	13,000	1,600		ppbv	1600	4/2/2011 7:02:00 PM
Dichlorodifluoromethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Ethanol	740	400		ppbv	400	4/1/2011 7:23:00 PM
Ethyl acetate	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Ethylbenzene	1,900	400		ppbv	400	4/1/2011 7:23:00 PM
Heptane	14,000	1,600		ppbv	1600	4/2/2011 7:02:00 PM
Hexachlorobutadiene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
m,p-Xylene	5,800	800		ppbv	400	4/1/2011 7:23:00 PM
Methylene chloride	6,200	400		ppbv	400	4/1/2011 7:23:00 PM
Naphthalene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
n-Hexane	8,400	1,600		ppbv	1600	4/2/2011 7:02:00 PM
o-Xylene	1,700	400		ppbv	400	4/1/2011 7:23:00 PM
Propylene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Styrene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
tert-Butyl Methyl Ether	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Tetrachloroethene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Tetrahydrofuran	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Toluene	20,000	1,600		ppbv	1600	4/2/2011 7:02:00 PM
trans-1,2-Dichloroethene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
trans-1,3-dichloropropene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Trichloroethene	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Trichlorofluoromethane	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Vinyl acetate	ND	400		ppbv	400	4/1/2011 7:23:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:13:00 PM

Project: Kirtland AFB

Lab ID: 1103389-005 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0005-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	400		ppbv	400	4/1/2011 7:23:00 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	400	4/1/2011 7:23:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,600,000	230,000	H	µg/m³	2000	4/10/2011 1:05:00 AM
C9-C10 Aromatic Hydrocarbons	ND	270,000	H	µg/m³	2000	4/10/2011 1:05:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	500,000	H	µg/m³	2000	4/10/2011 1:05:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	2000	4/10/2011 1:05:00 AM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:50:00 PM

Project: Kirtland AFB

Lab ID: 1103389-006 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0007-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.4	0.30	H	%	1	3/22/2011 6:20:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 6:20:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 6:20:00 AM
Nitrogen	79	1.4	H	%	1	3/22/2011 6:20:00 AM
Oxygen	14	0.080	H	%	1	3/22/2011 6:20:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,3-Butadiene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
1,4-Dioxane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
2-Butanone	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
2-Hexanone	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
2-Propanol	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
4-Methyl-2-pentanone	13,000	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Acetone	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Benzene	66,000	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Bromodichloromethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:50:00 PM

Project: Kirtland AFB

Lab ID: 1103389-006 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0007-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Bromomethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Carbon disulfide	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Chlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Chloroethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Chloroform	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Chloromethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Cyclohexane	150,000	20,000		ppbv	20000	4/2/2011 7:43:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Ethanol	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Ethyl acetate	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Ethylbenzene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Heptane	80,000	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
m,p-Xylene	ND	16,000		ppbv	8000	4/1/2011 8:05:00 PM
Methylene chloride	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Naphthalene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
n-Hexane	120,000	20,000		ppbv	20000	4/2/2011 7:43:00 PM
o-Xylene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Propylene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Styrene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Tetrachloroethene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Toluene	87,000	8,000		ppbv	8000	4/1/2011 8:05:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Trichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Vinyl acetate	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:50:00 PM

Project: Kirtland AFB

Lab ID: 1103389-006 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0007-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/1/2011 8:05:00 PM
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	8000	4/1/2011 8:05:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	11,000,000	2,300,000	H	µg/m³	20000	4/10/2011 1:47:00 AM
C9-C10 Aromatic Hydrocarbons	ND	2,700,000	H	µg/m³	20000	4/10/2011 1:47:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	5,000,000	H	µg/m³	20000	4/10/2011 1:47:00 AM
Surr: 4-Bromofluorobenzene	111	70-130	H	%REC	20000	4/10/2011 1:47:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 3:26:00 PM

Project: Kirtland AFB

Lab ID: 1103389-007 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0008-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.0	0.30	H	%	1	3/22/2011 6:39:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 6:39:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 6:39:00 AM
Nitrogen	78	1.4	H	%	1	3/22/2011 6:39:00 AM
Oxygen	17	0.080	H	%	1	3/22/2011 6:39:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,3-Butadiene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
1,4-Dioxane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
2-Butanone	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
2-Hexanone	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
2-Propanol	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Acetone	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Benzene	92,000	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Bromodichloromethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 3:26:00 PM

Project: Kirtland AFB

Lab ID: 1103389-007 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0008-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Bromomethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Carbon disulfide	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Chlorobenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Chloroethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Chloroform	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Chloromethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Cyclohexane	170,000	20,000		ppbv	20000	4/2/2011 8:24:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Ethanol	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Ethyl acetate	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Ethylbenzene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Heptane	80,000	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
m,p-Xylene	ND	16,000		ppbv	8000	4/1/2011 8:45:00 PM
Methylene chloride	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Naphthalene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
n-Hexane	180,000	20,000		ppbv	20000	4/2/2011 8:24:00 PM
o-Xylene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Propylene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Styrene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Tetrachloroethene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Toluene	120,000	8,000		ppbv	8000	4/1/2011 8:45:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Trichloroethene	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Vinyl acetate	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 3:26:00 PM

Project: Kirtland AFB

Lab ID: 1103389-007 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0008-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/1/2011 8:45:00 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%REC	8000	4/1/2011 8:45:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	12,000,000	2,300,000	H	µg/m³	20000	4/10/2011 7:15:00 AM
C9-C10 Aromatic Hydrocarbons	ND	2,700,000	H	µg/m³	20000	4/10/2011 7:15:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	5,000,000	H	µg/m³	20000	4/10/2011 7:15:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	20000	4/10/2011 7:15:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 12:27:00 PM

Project: Kirtland AFB

Lab ID: 1103389-008 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0013-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	5.2	0.30	H	%	1	3/22/2011 6:59:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/22/2011 6:59:00 AM
Methane	ND	0.090	H	%	1	3/22/2011 6:59:00 AM
Nitrogen	79	1.4	H	%	1	3/22/2011 6:59:00 AM
Oxygen	11	0.080	H	%	1	3/22/2011 6:59:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Benzene	23,000	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 12:27:00 PM

Project: Kirtland AFB

Lab ID: 1103389-008 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0013-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Cyclohexane	25,000	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Heptane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
n-Hexane	17,000	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Propylene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Toluene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 12:27:00 PM

Project: Kirtland AFB

Lab ID: 1103389-008 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0013-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 9:26:00 PM
Surr: 4-Bromofluorobenzene	95.7	70-130	H	%REC	8000	4/1/2011 9:26:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	5,300,000	1,200,000	H	µg/m³	10000	4/10/2011 2:28:00 AM
C9-C10 Aromatic Hydrocarbons	ND	1,300,000	H	µg/m³	10000	4/10/2011 2:28:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	2,500,000	H	µg/m³	10000	4/10/2011 2:28:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	H	%REC	10000	4/10/2011 2:28:00 AM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

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WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 12:27:00 PM

Project: Kirtland AFB

Lab ID: 1103389-009 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0014-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	6.9	0.30	H	%	1	3/23/2011 1:01:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 1:01:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 1:01:00 AM
Nitrogen	83	1.4	H	%	1	3/23/2011 1:01:00 AM
Oxygen	8.1	0.080	H	%	1	3/23/2011 1:01:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Benzene	30,000	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM

Qualifiers:

*IX	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 12:27:00 PM

Project: Kirtland AFB

Lab ID: 1103389-009 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0014-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Cyclohexane	30,000	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Heptane	9,500	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
n-Hexane	19,000	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Propylene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Toluene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 12:27:00 PM

Project: Kirtland AFB

Lab ID: 1103389-009 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0014-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 10:07:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	H	%REC	8000	4/1/2011 10:07:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	5,100,000	1,200,000	H	µg/m³	10000	4/10/2011 3:09:00 AM
C9-C10 Aromatic Hydrocarbons	ND	1,300,000	H	µg/m³	10000	4/10/2011 3:09:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	2,500,000	H	µg/m³	10000	4/10/2011 3:09:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	10000	4/10/2011 3:09:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 1:13:00 PM

Project: Kirtland AFB

Lab ID: 1103389-010 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0015-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	7.2	0.30	H	%	1	3/23/2011 1:21:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 1:21:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 1:21:00 AM
Nitrogen	83	1.4	H	%	1	3/23/2011 1:21:00 AM
Oxygen	5.9	0.080	H	%	1	3/23/2011 1:21:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Benzene	290,000	40,000	H	ppbv	40000	4/2/2011 9:05:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 1:13:00 PM

Project: Kirtland AFB

Lab ID: 1103389-010 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0015-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Cyclohexane	1,300,000	80,000	H	ppbv	80000	4/5/2011 3:06:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Ethylbenzene	20,000	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Heptane	560,000	40,000	H	ppbv	40000	4/2/2011 9:05:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
m,p-Xylene	59,000	16,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
n-Hexane	1,200,000	80,000	H	ppbv	80000	4/5/2011 3:06:00 PM
o-Xylene	19,000	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Propylene	18,000	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Toluene	420,000	40,000	H	ppbv	40000	4/2/2011 9:05:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 1:13:00 PM

Project: Kirtland AFB

Lab ID: 1103389-010 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0015-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 10:47:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130	H	%REC	8000	4/1/2011 10:47:00 PM
MASS APH AIR **AIR-PHASE PETROLEUM HYDROCARBONS**				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	76,000,000	9,400,000	H	µg/m³	80000	4/10/2011 3:49:00 AM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/10/2011 3:49:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/10/2011 3:49:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	80000	4/10/2011 3:49:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 1:49:00 PM

Project: Kirtland AFB

Lab ID: 1103389-011 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0016-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.78	0.30	H	%	1	3/23/2011 2:14:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 2:14:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 2:14:00 AM
Nitrogen	78	1.4	H	%	1	3/23/2011 2:14:00 AM
Oxygen	19	0.080	H	%	1	3/23/2011 2:14:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Benzene	57,000	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 1:49:00 PM

Project: Kirtland AFB

Lab ID: 1103389-011 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0016-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Cyclohexane	96,000	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Heptane	110,000	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
n-Hexane	64,000	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Propylene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Toluene	75,000	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/1/2011 11:28:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 1:49:00 PM

Project: Kirtland AFB

Lab ID: 1103389-011 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0016-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8.000	H	ppbv	8000	4/1/2011 11:28:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	H	%REC	8000	4/1/2011 11:28:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	370,000	94,000	H	µg/m³	800	4/10/2011 10:57:00 AM
C9-C10 Aromatic Hydrocarbons	ND	110,000	H	µg/m³	800	4/10/2011 10:57:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	200,000	H	µg/m³	800	4/10/2011 10:57:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	800	4/10/2011 10:57:00 AM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 2:21:00 PM

Project: Kirtland AFB

Lab ID: 1103389-012 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0017-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.47	0.30	H	%	1	3/23/2011 2:51:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 2:51:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 2:51:00 AM
Nitrogen	78	1.4	H	%	1	3/23/2011 2:51:00 AM
Oxygen	19	0.080	H	%	1	3/23/2011 2:51:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,1,2-Trichloroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,1-Dichloroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,1-Dichloroethene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,2,4-Trichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,2,4-Trimethylbenzene	480	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,2-Dibromoethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,2-Dichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,2-Dichloroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,2-Dichloropropane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,3,5-Trimethylbenzene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,3-Butadiene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,3-Dichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,4-Dichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
1,4-Dioxane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
2-Butanone	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
2-Hexanone	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
2-Propanol	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
4-Ethyltoluene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
4-Methyl-2-pentanone	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Acetone	910	400	H	ppbv	400	4/2/2011 12:11:00 AM
Benzene	8,900	1,600	H	ppbv	1600	4/2/2011 10:28:00 PM
Benzyl chloride	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Bromodichloromethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 2:21:00 PM

Project: Kirtland AFB

Lab ID: 1103389-012 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0017-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
Bromoform	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Bromomethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Carbon disulfide	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Carbon tetrachloride	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Chlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Chlorodibromomethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Chloroethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Chloroform	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Chloromethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
cis-1,2-Dichloroethene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
cis-1,3-dichloropropene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Cyclohexane	9,200	1,600	H	ppbv	1600	4/2/2011 10:28:00 PM
Dichlorodifluoromethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Ethanol	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Ethyl acetate	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Ethylbenzene	830	400	H	ppbv	400	4/2/2011 12:11:00 AM
Heptane	6,900	400	H	ppbv	400	4/2/2011 12:11:00 AM
Hexachlorobutadiene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
m,p-Xylene	3,400	800	H	ppbv	400	4/2/2011 12:11:00 AM
Methylene chloride	1,500	400	H	ppbv	400	4/2/2011 12:11:00 AM
Naphthalene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
n-Hexane	7,200	400	H	ppbv	400	4/2/2011 12:11:00 AM
o-Xylene	1,200	400	H	ppbv	400	4/2/2011 12:11:00 AM
Propylene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Styrene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
tert-Butyl Methyl Ether	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Tetrachloroethene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Tetrahydrofuran	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Toluene	10,000	1,600	H	ppbv	1600	4/2/2011 10:28:00 PM
trans-1,2-Dichloroethene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
trans-1,3-dichloropropene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Trichloroethene	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Trichlorofluoromethane	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Vinyl acetate	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM

Qualifiers:

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J	Estimated concentration	M	Manual Integration used to determine area response
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RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/2/2011 2:21:00 PM

Project: Kirtland AFB

Lab ID: 1103389-012 **Matrix:** AIR

Client Sample ID SVMW-04-GS-VA0017-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	400	H	ppbv	400	4/2/2011 12:11:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	400	4/2/2011 12:11:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	750,000	190,000	H	µg/m³	1600	4/10/2011 5:12:00 AM
C9-C10 Aromatic Hydrocarbons	ND	210,000	H	µg/m³	1600	4/10/2011 5:12:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	400,000	H	µg/m³	1600	4/10/2011 5:12:00 AM
Surr: 4-Bromofluorobenzene	120	70-130	H	%REC	1600	4/10/2011 5:12:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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	J	Estimated concentration	M	Manual Integration used to determine area response
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 12:34:00 PM

Project: Kirtland AFB

Lab ID: 1103389-013 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0018-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	3.2	0.30	H	%	1	3/23/2011 3:11:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 3:11:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 3:11:00 AM
Nitrogen	79	1.4	H	%	1	3/23/2011 3:11:00 AM
Oxygen	15	0.080	H	%	1	3/23/2011 3:11:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,1,2,2-Tetrachloroethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	13	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,1,2-Trichloroethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,1-Dichloroethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,1-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,2,4-Trichlorobenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,2,4-Trimethylbenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,2-Dibromoethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,2-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,2-Dichloroethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,2-Dichloropropane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,3,5-Trimethylbenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,3-Butadiene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,3-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,4-Dichlorobenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
1,4-Dioxane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
2-Butanone	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
2-Hexanone	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
2-Propanol	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
4-Ethyltoluene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
4-Methyl-2-pentanone	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Acetone	93	10	H	ppbv	10	4/1/2011 5:14:00 PM
Benzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Benzyl chloride	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Bromodichloromethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM

Qualifiers:

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J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 12:34:00 PM

Project: Kirtland AFB

Lab ID: 1103389-013 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0018-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Bromomethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Carbon disulfide	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Carbon tetrachloride	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Chlorobenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Chlorodibromomethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Chloroethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Chloroform	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Chloromethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
cis-1,2-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
cis-1,3-dichloropropene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Cyclohexane	10	10	H	ppbv	10	4/1/2011 5:14:00 PM
Dichlorodifluoromethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Ethanol	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Ethyl acetate	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Ethylbenzene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Heptane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Hexachlorobutadiene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
m,p-Xylene	ND	20	H	ppbv	10	4/1/2011 5:14:00 PM
Methylene chloride	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Naphthalene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
n-Hexane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
o-Xylene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Propylene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Styrene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
tert-Butyl Methyl Ether	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Tetrachloroethene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Tetrahydrofuran	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Toluene	15	10	H	ppbv	10	4/1/2011 5:14:00 PM
trans-1,2-Dichloroethene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
trans-1,3-dichloropropene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Trichloroethene	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Trichlorofluoromethane	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Vinyl acetate	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc
Collection Date: 3/1/2011 12:34:00 PM
Project: Kirtland AFB
Lab ID: 1103389-013
Matrix: AIR
Client Sample ID SVMW-05-GS-VA0018-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	10	H	ppbv	10	4/1/2011 5:14:00 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	H	%REC	10	4/1/2011 5:14:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	18,000	4,700	H	µg/m³	40	4/10/2011 5:53:00 AM
C9-C10 Aromatic Hydrocarbons	ND	5,300	H	µg/m³	40	4/10/2011 5:53:00 AM
C9-C12 Aliphatic Hydrocarbons	32,000	10,000	H	µg/m³	40	4/10/2011 5:53:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	40	4/10/2011 5:53:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 1:09:00 PM

Project: Kirtland AFB

Lab ID: 1103389-014 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0019-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	5.0	0.30	H	%	1	3/23/2011 3:32:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 3:32:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 3:32:00 AM
Nitrogen	80	1.4	H	%	1	3/23/2011 3:32:00 AM
Oxygen	12	0.080	H	%	1	3/23/2011 3:32:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,1,2,2-Tetrachloroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,1,2-Trichloroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,1-Dichloroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,1-Dichloroethene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,2,4-Trichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,2,4-Trimethylbenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,2-Dibromoethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,2-Dichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,2-Dichloroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,2-Dichloropropane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,3,5-Trimethylbenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,3-Butadiene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,3-Dichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,4-Dichlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
1,4-Dioxane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
2-Butanone	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
2-Hexanone	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
2-Propanol	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
4-Ethyltoluene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
4-Methyl-2-pentanone	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Acetone	500	400	H	ppbv	400	4/2/2011 12:54:00 AM
Benzene	1,800	400	H	ppbv	400	4/2/2011 12:54:00 AM
Benzyl chloride	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Bromodichloromethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 1:09:00 PM

Project: Kirtland AFB

Lab ID: 1103389-014 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0019-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Bromomethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Carbon disulfide	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Carbon tetrachloride	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Chlorobenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Chlorodibromomethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Chloroethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Chloroform	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Chloromethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
cis-1,2-Dichloroethene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
cis-1,3-dichloropropene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Cyclohexane	20,000	1,600	H	ppbv	1600	4/2/2011 11:09:00 PM
Dichlorodifluoromethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Ethanol	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Ethyl acetate	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Ethylbenzene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Heptane	2,400	400	H	ppbv	400	4/2/2011 12:54:00 AM
Hexachlorobutadiene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
m,p-Xylene	ND	800	H	ppbv	400	4/2/2011 12:54:00 AM
Methylene chloride	750	400	H	ppbv	400	4/2/2011 12:54:00 AM
Naphthalene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
n-Hexane	11,000	1,600	H	ppbv	1600	4/2/2011 11:09:00 PM
o-Xylene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Propylene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Styrene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
tert-Butyl Methyl Ether	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Tetrachloroethene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Tetrahydrofuran	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Toluene	920	400	H	ppbv	400	4/2/2011 12:54:00 AM
trans-1,2-Dichloroethene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
trans-1,3-dichloropropene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Trichloroethene	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Trichlorofluoromethane	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Vinyl acetate	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Estimated concentration
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits

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WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 1:09:00 PM

Project: Kirtland AFB

Lab ID: 1103389-014 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0019-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	400	H	ppbv	400	4/2/2011 12:54:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	400	4/2/2011 12:54:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	770,000	190,000	H	µg/m³	1600	4/10/2011 6:34:00 AM
C9-C10 Aromatic Hydrocarbons	ND	210,000	H	µg/m³	1600	4/10/2011 6:34:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	400,000	H	µg/m³	1600	4/10/2011 6:34:00 AM
Surr: 4-Bromofluorobenzene	118	70-130	H	%REC	1600	4/10/2011 6:34:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 1:44:00 PM

Project: Kirtland AFB

Lab ID: 1103389-015 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0020-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.49	0.30	H	%	1	3/23/2011 3:53:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 3:53:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 3:53:00 AM
Nitrogen	77	1.4	H	%	1	3/23/2011 3:53:00 AM
Oxygen	19	0.080	H	%	1	3/23/2011 3:53:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,3-Butadiene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
1,4-Dioxane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
2-Butanone	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
2-Hexanone	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
2-Propanol	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
4-Ethyltoluene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Acetone	140	40	H	ppbv	40	4/2/2011 2:52:00 PM
Benzene	230	40	H	ppbv	40	4/2/2011 2:52:00 PM
Benzyl chloride	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Bromodichloromethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

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WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 1:44:00 PM

Project: Kirtland AFB

Lab ID: 1103389-015 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0020-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Bromomethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Carbon disulfide	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Carbon tetrachloride	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Chlorobenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Chlorodibromomethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Chloroethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Chloroform	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Chloromethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Cyclohexane	250	40	H	ppbv	40	4/2/2011 2:52:00 PM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Ethanol	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Ethyl acetate	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Ethylbenzene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Heptane	45	40	H	ppbv	40	4/2/2011 2:52:00 PM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
m,p-Xylene	ND	80	H	ppbv	40	4/2/2011 2:52:00 PM
Methylene chloride	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Naphthalene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
n-Hexane	120	40	H	ppbv	40	4/2/2011 2:52:00 PM
o-Xylene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Propylene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Styrene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Tetrachloroethene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Tetrahydrofuran	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Toluene	47	40	H	ppbv	40	4/2/2011 2:52:00 PM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Trichloroethene	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Vinyl acetate	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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Analytical Report

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WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 1:44:00 PM

Project: Kirtland AFB

Lab ID: 1103389-015 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0020-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40	H	ppbv	40	4/2/2011 2:52:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	40	4/2/2011 2:52:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	25,000	4,700	H	µg/m³	40	4/10/2011 11:38:00 AM
C9-C10 Aromatic Hydrocarbons	ND	5,300	H	µg/m³	40	4/10/2011 11:38:00 AM
C9-C12 Aliphatic Hydrocarbons	39,000	10,000	H	µg/m³	40	4/10/2011 11:38:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	H	%REC	40	4/10/2011 11:38:00 AM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 2:17:00 PM

Project: Kirtland AFB

Lab ID: 1103389-016 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0021-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.62	0.30	H	%	1	3/23/2011 4:23:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 4:23:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 4:23:00 AM
Nitrogen	78	1.4	H	%	1	3/23/2011 4:23:00 AM
Oxygen	19	0.080	H	%	1	3/23/2011 4:23:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,1,2,2-Tetrachloroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,1,2-Trichloroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,1-Dichloroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,1-Dichloroethene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,2,4-Trichlorobenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,2,4-Trimethylbenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,2-Dibromoethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,2-Dichlorobenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,2-Dichloroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,2-Dichloropropane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,3,5-Trimethylbenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,3-Butadiene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,3-Dichlorobenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,4-Dichlorobenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
1,4-Dioxane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
2-Butanone	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
2-Hexanone	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
2-Propanol	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
4-Ethyltoluene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
4-Methyl-2-pentanone	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Acetone	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Benzene	3,900	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Benzyl chloride	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Bromodichloromethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 2:17:00 PM

Project: Kirtland AFB

Lab ID: 1103389-016 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0021-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Bromomethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Carbon disulfide	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Carbon tetrachloride	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Chlorobenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Chlorodibromomethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Chloroethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Chloroform	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Chloromethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
cis-1,2-Dichloroethene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
cis-1,3-dichloropropene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Cyclohexane	4,600	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Dichlorodifluoromethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Ethanol	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Ethyl acetate	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Ethylbenzene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Heptane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Hexachlorobutadiene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
m,p-Xylene	ND	3,200	H	ppbv	1600	4/2/2011 11:51:00 PM
Methylene chloride	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Naphthalene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
n-Hexane	3,700	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
o-Xylene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Propylene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Styrene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
tert-Butyl Methyl Ether	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Tetrachloroethene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Tetrahydrofuran	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Toluene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
trans-1,2-Dichloroethene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
trans-1,3-dichloropropene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Trichloroethene	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Trichlorofluoromethane	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Vinyl acetate	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 2:17:00 PM

Project: Kirtland AFB

Lab ID: 1103389-016 **Matrix:** AIR

Client Sample ID SVMW-05-GS-VA0021-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	1,600	H	ppbv	1600	4/2/2011 11:51:00 PM
Surr: 4-Bromofluorobenzene	99.9	70-130	H	%REC	1600	4/2/2011 11:51:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	680,000	190,000	H	µg/m³	1600	4/10/2011 1:00:00 PM
C9-C10 Aromatic Hydrocarbons	ND	210,000	H	µg/m³	1600	4/10/2011 1:00:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	400,000	H	µg/m³	1600	4/10/2011 1:00:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	1600	4/10/2011 1:00:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 8:51:00 AM

Project: Kirtland AFB

Lab ID: 1103389-017 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0026-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.47	0.30	H	%	1	3/23/2011 4:55:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 4:55:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 4:55:00 AM
Nitrogen	80	1.4	H	%	1	3/23/2011 4:55:00 AM
Oxygen	18	0.080	H	%	1	3/23/2011 4:55:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,1,2,2-Tetrachloroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,1,2-Trichloroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,1-Dichloroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,1-Dichloroethene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,2,4-Trichlorobenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,2,4-Trimethylbenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,2-Dibromoethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,2-Dichlorobenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,2-Dichloroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,2-Dichloropropane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,3,5-Trimethylbenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,3-Butadiene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,3-Dichlorobenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,4-Dichlorobenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
1,4-Dioxane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
2-Butanone	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
2-Hexanone	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
2-Propanol	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
4-Ethyltoluene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
4-Methyl-2-pentanone	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Acetone	2,100	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Benzene	13,000	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Benzyl chloride	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Bromodichloromethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 8:51:00 AM

Project: Kirtland AFB

Lab ID: 1103389-017 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0026-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Bromomethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Carbon disulfide	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Carbon tetrachloride	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Chlorobenzene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Chlorodibromomethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Chloroethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Chloroform	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Chloromethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
cis-1,2-Dichloroethene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
cis-1,3-dichloropropene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Cyclohexane	16,000	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Dichlorodifluoromethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Ethanol	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Ethyl acetate	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Ethylbenzene	2,600	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Heptane	18,000	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Hexachlorobutadiene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
m,p-Xylene	7,300	3,200		ppbv	1600	4/3/2011 12:33:00 AM
Methylene chloride	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Naphthalene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
n-Hexane	11,000	1,600		ppbv	1600	4/3/2011 12:33:00 AM
o-Xylene	2,100	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Propylene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Styrene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
tert-Butyl Methyl Ether	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Tetrachloroethene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Tetrahydrofuran	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Toluene	29,000	1,600		ppbv	1600	4/3/2011 12:33:00 AM
trans-1,2-Dichloroethene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
trans-1,3-dichloropropene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Trichloroethene	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Trichlorofluoromethane	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Vinyl acetate	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 8:51:00 AM

Project: Kirtland AFB

Lab ID: 1103389-017 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0026-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	1,600		ppbv	1600	4/3/2011 12:33:00 AM
Surr: 4-Bromofluorobenzene	99.9	70-130		%REC	1600	4/3/2011 12:33:00 AM
MASS APH AIR				**MA_APH**		Analyst: **MT3**
AIR-PHASE PETROLEUM HYDROCARBONS						
C5-C8 Aliphatic Hydrocarbons	990,000	190,000	H	µg/m³	1600	4/10/2011 1:42:00 PM
C9-C10 Aromatic Hydrocarbons	ND	210,000	H	µg/m³	1600	4/10/2011 1:42:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	400,000	H	µg/m³	1600	4/10/2011 1:42:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	1600	4/10/2011 1:42:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:30:00 AM

Project: Kirtland AFB

Lab ID: 1103389-018 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0027-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.0	0.30	H	%	1	3/23/2011 5:22:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/23/2011 5:22:00 AM
Methane	ND	0.090	H	%	1	3/23/2011 5:22:00 AM
Nitrogen	80	1.4	H	%	1	3/23/2011 5:22:00 AM
Oxygen	14	0.080	H	%	1	3/23/2011 5:22:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Benzene	57,000	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:30:00 AM

Project: Kirtland AFB

Lab ID: 1103389-018 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0027-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Cyclohexane	140,000	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Heptane	55,000	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
n-Hexane	110,000	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Propylene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Toluene	100,000	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:30:00 AM

Project: Kirtland AFB

Lab ID: 1103389-018 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0027-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 4:27:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	8000	4/6/2011 4:27:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	7,300,000	1,200,000	H	µg/m³	10000	4/10/2011 2:23:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,300,000	H	µg/m³	10000	4/10/2011 2:23:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,500,000	H	µg/m³	10000	4/10/2011 2:23:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	10000	4/10/2011 2:23:00 PM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:05:00 AM

Project: Kirtland AFB

Lab ID: 1103389-019 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0028-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	3.5	0.30	H	%	1	3/24/2011 12:42:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 12:42:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 12:42:00 AM
Nitrogen	78	1.4	H	%	1	3/24/2011 12:42:00 AM
Oxygen	14	0.080	H	%	1	3/24/2011 12:42:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Benzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:05:00 AM

Project: Kirtland AFB

Lab ID: 1103389-019 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0028-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Cyclohexane	18,000	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Heptane	20,000	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
n-Hexane	13,000	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Propylene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Toluene	31,000	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 5:50:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc

Collection Date: 3/4/2011 10:05:00 AM

Project: Kirtland AFB

Lab ID: 1103389-019

Matrix: AIR

Client Sample ID SVMW-07-GS-VA0028-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8.000	H	ppbv	8000	4/6/2011 5:50:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	8000	4/6/2011 5:50:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	970,000	94,000	H	µg/m³	800	4/10/2011 3:04:00 PM
C9-C10 Aromatic Hydrocarbons	ND	110,000	H	µg/m³	800	4/10/2011 3:04:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	200,000	H	µg/m³	800	4/10/2011 3:04:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	800	4/10/2011 3:04:00 PM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:05:00 AM

Project: Kirtland AFB

Lab ID: 1103389-020 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0029-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	2.9	0.30	H	%	1	3/24/2011 1:04:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 1:04:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 1:04:00 AM
Nitrogen	78	1.4	H	%	1	3/24/2011 1:04:00 AM
Oxygen	15	0.080	H	%	1	3/24/2011 1:04:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
2-Butanone	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Acetone	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Benzene	21,000	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:05:00 AM

Project: Kirtland AFB

Lab ID: 1103389-020 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0029-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Cyclohexane	62,000	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Ethanol	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Heptane	68,000	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Methylene chloride	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
n-Hexane	42,000	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
o-Xylene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Propylene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Toluene	67,000	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:05:00 AM

Project: Kirtland AFB

Lab ID: 1103389-020 **Matrix:** AIR

Client Sample ID SVMW-07-GS-VA0029-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 7:15:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	8000	4/6/2011 7:15:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	3,400,000	940,000	H	µg/m³	8000	4/10/2011 3:47:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/10/2011 3:47:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/10/2011 3:47:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	H	%REC	8000	4/10/2011 3:47:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 12:05:00 PM

Project: Kirtland AFB

Lab ID: 1103389-021 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0038-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	5.6	0.30	H	%	1	3/24/2011 1:28:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 1:28:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 1:28:00 AM
Nitrogen	79	1.4	H	%	1	3/24/2011 1:28:00 AM
Oxygen	11	0.080	H	%	1	3/24/2011 1:28:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
2-Butanone	270,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
2-Hexanone	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
2-Propanol	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Acetone	1,100,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
Benzene	730,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 12:05:00 PM

Project: Kirtland AFB

Lab ID: 1103389-021 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0038-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Bromomethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Chloroethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Chloroform	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Chloromethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Cyclohexane	3,000,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Ethanol	30,000	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Ethylbenzene	37,000	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Heptane	2,200,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
m,p-Xylene	75,000	16,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Methylene chloride	30,000	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Naphthalene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
n-Hexane	2,100,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
o-Xylene	19,000	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Propylene	14,000	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Styrene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Toluene	1,800,000	160,000	H	ppbv	160000	4/6/2011 7:58:00 PM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Trichloroethene	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 12:05:00 PM

Project: Kirtland AFB

Lab ID: 1103389-021 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0038-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/5/2011 4:30:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	H	%REC	8000	4/5/2011 4:30:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	140,000,000	19,000,000	H	µg/m³	160000	4/10/2011 4:28:00 PM
C9-C10 Aromatic Hydrocarbons	ND	21,000,000	H	µg/m³	160000	4/10/2011 4:28:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	40,000,000	H	µg/m³	160000	4/10/2011 4:28:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	H	%REC	160000	4/10/2011 4:28:00 PM

Qualifiers:			
	*/X	Value exceeds Maximum Contaminant Level	
	E	Value above quantitation range	
	J	Estimated concentration	
	ND	Not Detected at the Reporting Limit	
	RL	Reporting Limit	
	B	Analyte detected in the associated Method Blank	
	H	Holding times for preparation or analysis exceeded	
	M	Manual Integration used to determine area response	
	PL	Permit Limit	
	S	Spike Recovery outside accepted recovery limits	

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc
Collection Date: 3/3/2011 1:00:00 PM
Project: Kirtland AFB
Lab ID: 1103389-022
Matrix: AIR
Client Sample ID SVMW-10-GS-VA0039-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.0	0.30	H	%	1	3/24/2011 1:53:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 1:53:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 1:53:00 AM
Nitrogen	82	1.4	H	%	1	3/24/2011 1:53:00 AM
Oxygen	10	0.080	H	%	1	3/24/2011 1:53:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,1,2,2-Tetrachloroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,1,2-Trichloroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,1-Dichloroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,1-Dichloroethene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,2,4-Trichlorobenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,2,4-Trimethylbenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,2-Dibromoethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,2-Dichlorobenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,2-Dichloroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,2-Dichloropropane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,3,5-Trimethylbenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,3-Butadiene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,3-Dichlorobenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,4-Dichlorobenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
1,4-Dioxane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
2-Butanone	81,000	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
2-Hexanone	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
2-Propanol	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
4-Ethyltoluene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
4-Methyl-2-pentanone	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Acetone	740,000	40,000	H	ppbv	40000	4/6/2011 9:23:00 PM
Benzene	320,000	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Benzyl chloride	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Bromodichloromethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 1:00:00 PM

Project: Kirtland AFB

Lab ID: 1103389-022 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0039-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Bromomethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Carbon disulfide	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Carbon tetrachloride	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Chlorobenzene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Chlorodibromomethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Chloroethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Chloroform	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Chloromethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
cis-1,2-Dichloroethene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
cis-1,3-dichloropropene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Cyclohexane	1,400,000	40,000	EH	ppbv	40000	4/6/2011 9:23:00 PM
Dichlorodifluoromethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Ethanol	28,000	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Ethyl acetate	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Ethylbenzene	30,000	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Heptane	960,000	40,000	EH	ppbv	40000	4/6/2011 9:23:00 PM
Hexachlorobutadiene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
m,p-Xylene	64,000	40,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Methylene chloride	21,000	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Naphthalene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
n-Hexane	1,800,000	40,000	EH	ppbv	40000	4/6/2011 9:23:00 PM
o-Xylene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Propylene	42,000	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Styrene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
tert-Butyl Methyl Ether	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Tetrachloroethene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Tetrahydrofuran	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Toluene	730,000	40,000	H	ppbv	40000	4/6/2011 9:23:00 PM
trans-1,2-Dichloroethene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
trans-1,3-dichloropropene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Trichloroethene	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Trichlorofluoromethane	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Vinyl acetate	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 1:00:00 PM

Project: Kirtland AFB

Lab ID: 1103389-022 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0039-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	20,000	H	ppbv	20000	4/5/2011 8:04:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	20000	4/5/2011 8:04:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	100,000,000	9,400,000	H	µg/m³	80000	4/10/2011 5:09:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/10/2011 5:09:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/10/2011 5:09:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	80000	4/10/2011 5:09:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 1:45:00 PM

Project: Kirtland AFB

Lab ID: 1103389-023 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0040-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.1	0.30	H	%	1	3/24/2011 2:14:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 2:14:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 2:14:00 AM
Nitrogen	81	1.4	H	%	1	3/24/2011 2:14:00 AM
Oxygen	10	0.080	H	%	1	3/24/2011 2:14:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,1,2,2-Tetrachloroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,1,2-Trichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,1-Dichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,1-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,2,4-Trichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,2,4-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,2-Dibromoethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,2-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,2-Dichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,2-Dichloropropane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,3,5-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,3-Butadiene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,3-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,4-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
1,4-Dioxane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
2-Butanone	96,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
2-Hexanone	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
2-Propanol	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
4-Ethyltoluene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
4-Methyl-2-pentanone	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Acetone	620,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Benzene	390,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Benzyl chloride	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Bromodichloromethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 1:45:00 PM

Project: Kirtland AFB

Lab ID: 1103389-023 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0040-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Bromomethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Carbon disulfide	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Carbon tetrachloride	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Chlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Chlorodibromomethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Chloroethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Chloroform	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Chloromethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
cis-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
cis-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Cyclohexane	1,700,000	80,000	EH	ppbv	80000	4/6/2011 10:06:00 PM
Dichlorodifluoromethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Ethanol	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Ethyl acetate	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Ethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Heptane	680,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Hexachlorobutadiene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
m,p-Xylene	ND	80,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Methylene chloride	86,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Naphthalene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
n-Hexane	2,300,000	80,000	EH	ppbv	80000	4/6/2011 10:06:00 PM
o-Xylene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Propylene	44,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Styrene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
tert-Butyl Methyl Ether	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Tetrachloroethene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Tetrahydrofuran	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Toluene	570,000	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
trans-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
trans-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Trichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Trichlorofluoromethane	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Vinyl acetate	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 1:45:00 PM

Project: Kirtland AFB

Lab ID: 1103389-023 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0040-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40,000	H	ppbv	40000	4/5/2011 8:49:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	40000	4/5/2011 8:49:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	110,000,000	9,400,000	H	µg/m³	80000	4/10/2011 5:50:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/10/2011 5:50:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/10/2011 5:50:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	H	%REC	80000	4/10/2011 5:50:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:00:00 AM

Project: Kirtland AFB

Lab ID: 1103389-024 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0042-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	8.6	0.30	H	%	1	3/24/2011 3:13:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 3:13:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 3:13:00 AM
Nitrogen	83	1.4	H	%	1	3/24/2011 3:13:00 AM
Oxygen	5.2	0.080	H	%	1	3/24/2011 3:13:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,1,2,2-Tetrachloroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,1,2-Trichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,1-Dichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,1-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,2,4-Trichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,2,4-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,2-Dibromoethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,2-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,2-Dichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,2-Dichloropropane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,3,5-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,3-Butadiene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,3-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,4-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
1,4-Dioxane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
2-Butanone	54,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
2-Hexanone	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
2-Propanol	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
4-Ethyltoluene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
4-Methyl-2-pentanone	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Acetone	240,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Benzene	150,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Benzyl chloride	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Bromodichloromethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:00:00 AM

Project: Kirtland AFB

Lab ID: 1103389-024 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0042-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Bromomethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Carbon disulfide	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Carbon tetrachloride	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Chlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Chlorodibromomethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Chloroethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Chloroform	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Chloromethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
cis-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
cis-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Cyclohexane	700,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Dichlorodifluoromethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Ethanol	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Ethyl acetate	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Ethylbenzene	42,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Heptane	550,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Hexachlorobutadiene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
m,p-Xylene	89,000	80,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Methylene chloride	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Naphthalene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
n-Hexane	370,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
o-Xylene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Propylene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Styrene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
tert-Butyl Methyl Ether	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Tetrachloroethene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Tetrahydrofuran	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Toluene	670,000	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
trans-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
trans-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Trichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Trichlorofluoromethane	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Vinyl acetate	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:00:00 AM

Project: Kirtland AFB

Lab ID: 1103389-024 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0042-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40,000	H	ppbv	40000	4/5/2011 9:34:00 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	H	%REC	40000	4/5/2011 9:34:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	39,000,000	9,400,000	H	µg/m³	80000	4/10/2011 6:31:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/10/2011 6:31:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/10/2011 6:31:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	H	%REC	80000	4/10/2011 6:31:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:40:00 AM

Project: Kirtland AFB

Lab ID: 1103389-025 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0043-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	7.5	0.30	H	%	1	3/24/2011 3:39:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 3:39:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 3:39:00 AM
Nitrogen	83	1.4	H	%	1	3/24/2011 3:39:00 AM
Oxygen	4.5	0.080	H	%	1	3/24/2011 3:39:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,1,2,2-Tetrachloroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,1,2-Trichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,1-Dichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,1-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,2,4-Trichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,2,4-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,2-Dibromoethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,2-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,2-Dichloroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,2-Dichloropropane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,3,5-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,3-Butadiene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,3-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,4-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
1,4-Dioxane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
2-Butanone	170,000	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
2-Hexanone	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
2-Propanol	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
4-Ethyltoluene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
4-Methyl-2-pentanone	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Acetone	760,000	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Benzene	510,000	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Benzyl chloride	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Bromodichloromethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:40:00 AM

Project: Kirtland AFB

Lab ID: 1103389-025 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0043-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Bromomethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Carbon disulfide	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Carbon tetrachloride	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Chlorobenzene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Chlorodibromomethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Chloroethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Chloroform	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Chloromethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
cis-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
cis-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Cyclohexane	520,000	160,000	H	ppbv	160000	4/6/2011 10:48:00 PM
Dichlorodifluoromethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Ethanol	45,000	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Ethyl acetate	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Ethylbenzene	47,000	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Heptane	310,000	160,000	H	ppbv	160000	4/6/2011 10:48:00 PM
Hexachlorobutadiene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
m,p-Xylene	92,000	80,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Methylene chloride	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Naphthalene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
n-Hexane	580,000	160,000	H	ppbv	160000	4/6/2011 10:48:00 PM
o-Xylene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Propylene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Styrene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
tert-Butyl Methyl Ether	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Tetrachloroethene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Tetrahydrofuran	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Toluene	280,000	160,000	H	ppbv	160000	4/6/2011 10:48:00 PM
trans-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
trans-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Trichloroethene	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Trichlorofluoromethane	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Vinyl acetate	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:40:00 AM

Project: Kirtland AFB

Lab ID: 1103389-025 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0043-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40,000	H	ppbv	40000	4/5/2011 10:19:00 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	H	%REC	40000	4/5/2011 10:19:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	20,000,000	9,400,000	H	µg/m³	80000	4/11/2011 1:24:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/11/2011 1:24:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/11/2011 1:24:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	80000	4/11/2011 1:24:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:40:00 AM

Project: Kirtland AFB

Lab ID: 1103389-026 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0044-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	8.5	0.30	H	%	1	3/24/2011 4:08:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 4:08:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 4:08:00 AM
Nitrogen	84	1.4	H	%	1	3/24/2011 4:08:00 AM
Oxygen	2.8	0.080	H	%	1	3/24/2011 4:08:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,1,2,2-Tetrachloroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,1,2-Trichloroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,1-Dichloroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,1-Dichloroethene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,2,4-Trichlorobenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,2,4-Trimethylbenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,2-Dibromoethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,2-Dichlorobenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,2-Dichloroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,2-Dichloropropane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,3,5-Trimethylbenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,3-Butadiene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,3-Dichlorobenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,4-Dichlorobenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
1,4-Dioxane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
2-Butanone	160,000	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
2-Hexanone	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
2-Propanol	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
4-Ethyltoluene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
4-Methyl-2-pentanone	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Acetone	780,000	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Benzene	580,000	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Benzyl chloride	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Bromodichloromethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:40:00 AM

Project: Kirtland AFB

Lab ID: 1103389-026 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0044-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Bromomethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Carbon disulfide	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Carbon tetrachloride	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Chlorobenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Chlorodibromomethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Chloroethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Chloroform	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Chloromethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
cis-1,2-Dichloroethene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
cis-1,3-dichloropropene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Cyclohexane	3,000,000	160,000	H	ppbv	160000	4/6/2011 11:31:00 PM
Dichlorodifluoromethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Ethanol	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Ethyl acetate	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Ethylbenzene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Heptane	1,100,000	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Hexachlorobutadiene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
m,p-Xylene	ND	160,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Methylene chloride	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Naphthalene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
n-Hexane	3,200,000	160,000	H	ppbv	160000	4/6/2011 11:31:00 PM
o-Xylene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Propylene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Styrene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
tert-Butyl Methyl Ether	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Tetrachloroethene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Tetrahydrofuran	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Toluene	1,000,000	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
trans-1,2-Dichloroethene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
trans-1,3-dichloropropene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Trichloroethene	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Trichlorofluoromethane	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Vinyl acetate	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 9:40:00 AM

Project: Kirtland AFB

Lab ID: 1103389-026 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0044-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	80,000	H	ppbv	80000	4/5/2011 11:04:00 PM
Surr: 4-Bromofluorobenzene	97.3	70-130	H	%REC	80000	4/5/2011 11:04:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	120,000,000	19,000,000	H	µg/m³	160000	4/11/2011 2:45:00 PM
C9-C10 Aromatic Hydrocarbons	ND	21,000,000	H	µg/m³	160000	4/11/2011 2:45:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	40,000,000	H	µg/m³	160000	4/11/2011 2:45:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	160000	4/11/2011 2:45:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:32:00 AM

Project: Kirtland AFB

Lab ID: 1103389-027 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0045-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.6	0.30	H	%	1	3/24/2011 4:29:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 4:29:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 4:29:00 AM
Nitrogen	76	1.4	H	%	1	3/24/2011 4:29:00 AM
Oxygen	17	0.080	H	%	1	3/24/2011 4:29:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,1,2,2-Tetrachloroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,1,2-Trichloroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,1-Dichloroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,1-Dichloroethene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,2,4-Trichlorobenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,2,4-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,2-Dibromoethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,2-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,2-Dichloroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,2-Dichloropropane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,3,5-Trimethylbenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,3-Butadiene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,3-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,4-Dichlorobenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
1,4-Dioxane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
2-Butanone	160,000	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
2-Hexanone	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
2-Propanol	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
4-Ethyltoluene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
4-Methyl-2-pentanone	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Acetone	660,000	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Benzene	450,000	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Benzyl chloride	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Bromodichloromethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:32:00 AM

Project: Kirtland AFB

Lab ID: 1103389-027 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0045-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Bromomethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Carbon disulfide	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Carbon tetrachloride	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Chlorobenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Chlorodibromomethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Chloroethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Chloroform	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Chloromethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
cis-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
cis-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Cyclohexane	2,000,000	80,000	EH	ppbv	80000	4/7/2011 12:13:00 AM
Dichlorodifluoromethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Ethanol	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Ethyl acetate	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Ethylbenzene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Heptane	1,600,000	80,000	EH	ppbv	80000	4/7/2011 12:13:00 AM
Hexachlorobutadiene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
m,p-Xylene	84,000	80,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Methylene chloride	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Naphthalene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
n-Hexane	1,500,000	80,000	H	ppbv	80000	4/7/2011 12:13:00 AM
o-Xylene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Propylene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Styrene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
tert-Butyl Methyl Ether	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Tetrachloroethene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Tetrahydrofuran	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Toluene	780,000	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
trans-1,2-Dichloroethene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
trans-1,3-dichloropropene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Trichloroethene	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Trichlorofluoromethane	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Vinyl acetate	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 10:32:00 AM

Project: Kirtland AFB

Lab ID: 1103389-027 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0045-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40,000	H	ppbv	40000	4/6/2011 12:33:00 AM
Surr: 4-Bromofluorobenzene	99.4	70-130	H	%REC	40000	4/6/2011 12:33:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	75,000,000	9,400,000	H	µg/m³	80000	4/11/2011 3:25:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/11/2011 3:25:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/11/2011 3:25:00 PM
Surr: 4-Bromofluorobenzene	98.5	70-130	H	%REC	80000	4/11/2011 3:25:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 11:07:00 AM

Project: Kirtland AFB

Lab ID: 1103389-028 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0046-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	ND	0.30	H	%	1	3/24/2011 4:55:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/24/2011 4:55:00 AM
Methane	ND	0.090	H	%	1	3/24/2011 4:55:00 AM
Nitrogen	76	1.4	H	%	1	3/24/2011 4:55:00 AM
Oxygen	20	0.080	H	%	1	3/24/2011 4:55:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,1,2,2-Tetrachloroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,1,2-Trichloroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,1-Dichloroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,1-Dichloroethene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,2,4-Trichlorobenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,2,4-Trimethylbenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,2-Dibromoethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,2-Dichlorobenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,2-Dichloroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,2-Dichloropropane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,3,5-Trimethylbenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,3-Butadiene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,3-Dichlorobenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,4-Dichlorobenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
1,4-Dioxane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
2-Butanone	37,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
2-Hexanone	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
2-Propanol	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
4-Ethyltoluene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
4-Methyl-2-pentanone	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Acetone	140,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Benzene	130,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Benzyl chloride	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Bromodichloromethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 11:07:00 AM

Project: Kirtland AFB

Lab ID: 1103389-028 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0046-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Bromomethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Carbon disulfide	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Carbon tetrachloride	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Chlorobenzene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Chlorodibromomethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Chloroethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Chloroform	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Chloromethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
cis-1,2-Dichloroethene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
cis-1,3-dichloropropene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Cyclohexane	380,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Dichlorodifluoromethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Ethanol	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Ethyl acetate	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Ethylbenzene	22,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Heptane	340,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Hexachlorobutadiene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
m,p-Xylene	53,000	40,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Methylene chloride	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Naphthalene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
n-Hexane	280,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
o-Xylene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Propylene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Styrene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
tert-Butyl Methyl Ether	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Tetrachloroethene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Tetrahydrofuran	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Toluene	320,000	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
trans-1,2-Dichloroethene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
trans-1,3-dichloropropene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Trichloroethene	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Trichlorofluoromethane	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Vinyl acetate	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 11:07:00 AM

Project: Kirtland AFB

Lab ID: 1103389-028 **Matrix:** AIR

Client Sample ID SVMW-11-GS-VA0046-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	20,000	H	ppbv	20000	4/6/2011 1:18:00 AM
Surr: 4-Bromofluorobenzene	98.5	70-130	H	%REC	20000	4/6/2011 1:18:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	18,000,000	9,400,000	H	µg/m³	80000	4/11/2011 4:06:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/11/2011 4:06:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/11/2011 4:06:00 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	H	%REC	80000	4/11/2011 4:06:00 PM

Qualifiers:				
	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 11:10:00 AM

Project: Kirtland AFB

Lab ID: 1103389-029 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0047-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.13	0.30	JH	%	1	3/25/2011 1:21:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 1:21:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 1:21:00 AM
Nitrogen	77	1.4	H	%	1	3/25/2011 1:21:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 1:21:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Acetone	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Benzene	8,200	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 11:10:00 AM

Project: Kirtland AFB

Lab ID: 1103389-029 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0047-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Cyclohexane	23,000	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Heptane	24,000	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Methylene chloride	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
n-Hexane	18,000	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
o-Xylene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Propylene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Toluene	33,000	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 11:10:00 AM

Project: Kirtland AFB

Lab ID: 1103389-029 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0047-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 2:49:00 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	H	%REC	8000	4/6/2011 2:49:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,200,000	940,000	H	µg/m³	8000	4/11/2011 4:47:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/11/2011 4:47:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/11/2011 4:47:00 PM
Surr: 4-Bromofluorobenzene	97.4	70-130	H	%REC	8000	4/11/2011 4:47:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 11:48:00 AM

Project: Kirtland AFB

Lab ID: 1103389-030 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0048-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.20	0.30	JH	%	1	3/25/2011 1:51:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 1:51:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 1:51:00 AM
Nitrogen	78	1.4	H	%	1	3/25/2011 1:51:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 1:51:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Acetone	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Benzene	17,000	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 11:48:00 AM

Project: Kirtland AFB

Lab ID: 1103389-030 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0048-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Cyclohexane	48,000	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Heptane	38,000	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Methylene chloride	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
n-Hexane	35,000	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
o-Xylene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Propylene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Toluene	43,000	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 3:33:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 11:48:00 AM

Project: Kirtland AFB

Lab ID: 1103389-030 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0048-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8.000	H	ppbv	8000	4/6/2011 3:33:00 AM
Surr: 4-Bromofluorobenzene	98.2	70-130	H	%REC	8000	4/6/2011 3:33:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	3,400,000	940,000	H	µg/m³	8000	4/11/2011 5:27:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/11/2011 5:27:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/11/2011 5:27:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	8000	4/11/2011 5:27:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 12:35:00 PM

Project: Kirtland AFB

Lab ID: 1103389-031 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0049-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.60	0.30	H	%	1	3/25/2011 2:12:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 2:12:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 2:12:00 AM
Nitrogen	79	1.4	H	%	1	3/25/2011 2:12:00 AM
Oxygen	17	0.080	H	%	1	3/25/2011 2:12:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Acetone	16,000	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Benzene	30,000	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 12:35:00 PM

Project: Kirtland AFB

Lab ID: 1103389-031 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0049-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Chloroform	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Cyclohexane	100,000	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Ethanol	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Ethylbenzene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Heptane	68,000	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
m,p-Xylene	ND	16,000		ppbv	8000	4/2/2011 2:16:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
n-Hexane	110,000	8,000		ppbv	8000	4/2/2011 2:16:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Propylene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Styrene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Toluene	63,000	8,000		ppbv	8000	4/2/2011 2:16:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 12:35:00 PM

Project: Kirtland AFB

Lab ID: 1103389-031 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0049-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/2/2011 2:16:00 AM
Surr: 4-Bromofluorobenzene	95.4	70-130		%REC	8000	4/2/2011 2:16:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,900,000	940,000	H	µg/m³	8000	4/11/2011 6:08:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/11/2011 6:08:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/11/2011 6:08:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	H	%REC	8000	4/11/2011 6:08:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 1:07:00 PM

Project: Kirtland AFB

Lab ID: 1103389-032 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0050-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.15	0.30	JH	%	1	3/25/2011 2:31:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 2:31:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 2:31:00 AM
Nitrogen	77	1.4	H	%	1	3/25/2011 2:31:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 2:31:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Acetone	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Benzene	13,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 1:07:00 PM

Project: Kirtland AFB

Lab ID: 1103389-032 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0050-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Chloroform	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Cyclohexane	50,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Ethanol	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Ethylbenzene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Heptane	28,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
m,p-Xylene	ND	16,000		ppbv	8000	4/2/2011 9:11:00 AM
Methylene chloride	18,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
n-Hexane	37,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Propylene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Styrene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Tetrahydrofuran	12,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Toluene	32,000	8,000		ppbv	8000	4/2/2011 9:11:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 1:07:00 PM

Project: Kirtland AFB

Lab ID: 1103389-032 **Matrix:** AIR

Client Sample ID SVMW-12-GS-VA0050-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/2/2011 9:11:00 AM
Surr: 4-Bromofluorobenzene	96.9	70-130		%REC	8000	4/2/2011 9:11:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	4,900,000	940,000	H	µg/m³	8000	4/11/2011 6:47:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/11/2011 6:47:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/11/2011 6:47:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	H	%REC	8000	4/11/2011 6:47:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 11:17:00 AM

Project: Kirtland AFB

Lab ID: 1103389-033 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0056-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	ND	0.30	H	%	1	3/25/2011 3:37:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 3:37:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 3:37:00 AM
Nitrogen	78	1.4	H	%	1	3/25/2011 3:37:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 3:37:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,1,2,2-Tetrachloroethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	68	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,1,2-Trichloroethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,1-Dichloroethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,1-Dichloroethene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,2,4-Trichlorobenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,2,4-Trimethylbenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,2-Dibromoethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,2-Dichlorobenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,2-Dichloroethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,2-Dichloropropane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,3,5-Trimethylbenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,3-Butadiene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,3-Dichlorobenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,4-Dichlorobenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
1,4-Dioxane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
2-Butanone	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
2-Hexanone	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
2-Propanol	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
4-Ethyltoluene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
4-Methyl-2-pentanone	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Acetone	60	10	H	ppbv	10	4/2/2011 8:28:00 AM
Benzene	53	10	H	ppbv	10	4/2/2011 8:28:00 AM
Benzyl chloride	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Bromodichloromethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 11:17:00 AM

Project: Kirtland AFB

Lab ID: 1103389-033 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0056-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Bromomethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Carbon disulfide	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Carbon tetrachloride	130	10	H	ppbv	10	4/2/2011 8:28:00 AM
Chlorobenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Chlorodibromomethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Chloroethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Chloroform	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Chloromethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
cis-1,2-Dichloroethene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
cis-1,3-dichloropropene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Cyclohexane	13	10	H	ppbv	10	4/2/2011 8:28:00 AM
Dichlorodifluoromethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Ethanol	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Ethyl acetate	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Ethylbenzene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Heptane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Hexachlorobutadiene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
m,p-Xylene	ND	20	H	ppbv	10	4/2/2011 8:28:00 AM
Methylene chloride	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Naphthalene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
n-Hexane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
o-Xylene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Propylene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Styrene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
tert-Butyl Methyl Ether	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Tetrachloroethene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Tetrahydrofuran	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Toluene	36	10	H	ppbv	10	4/2/2011 8:28:00 AM
trans-1,2-Dichloroethene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
trans-1,3-dichloropropene	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Trichloroethene	22	10	H	ppbv	10	4/2/2011 8:28:00 AM
Trichlorofluoromethane	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Vinyl acetate	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 11:17:00 AM

Project: Kirtland AFB

Lab ID: 1103389-033 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0056-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	10	H	ppbv	10	4/2/2011 8:28:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	10	4/2/2011 8:28:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	27,000	4,700	H	µg/m³	40	4/11/2011 7:28:00 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	H	µg/m³	40	4/11/2011 7:28:00 PM
C9-C12 Aliphatic Hydrocarbons	25,000	10,000	H	µg/m³	40	4/11/2011 7:28:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	40	4/11/2011 7:28:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 11:17:00 AM

Project: Kirtland AFB

Lab ID: 1103389-034 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0057-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.14	0.30	JH	%	1	3/25/2011 4:30:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 4:30:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 4:30:00 AM
Nitrogen	78	1.4	H	%	1	3/25/2011 4:30:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 4:30:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	100	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,3-Butadiene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
1,4-Dioxane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
2-Butanone	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
2-Hexanone	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
2-Propanol	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
4-Ethyltoluene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Acetone	93	40	H	ppbv	40	4/5/2011 5:13:00 PM
Benzene	52	40	H	ppbv	40	4/5/2011 5:13:00 PM
Benzyl chloride	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Bromodichloromethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 11:17:00 AM

Project: Kirtland AFB

Lab ID: 1103389-034 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0057-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Bromomethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Carbon disulfide	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Carbon tetrachloride	110	40	H	ppbv	40	4/5/2011 5:13:00 PM
Chlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Chlorodibromomethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Chloroethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Chloroform	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Chloromethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Cyclohexane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Ethanol	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Ethyl acetate	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Ethylbenzene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Heptane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
m,p-Xylene	ND	80	H	ppbv	40	4/5/2011 5:13:00 PM
Methylene chloride	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Naphthalene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
n-Hexane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
o-Xylene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Propylene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Styrene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Tetrachloroethene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Tetrahydrofuran	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Toluene	47	40	H	ppbv	40	4/5/2011 5:13:00 PM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Trichloroethene	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Vinyl acetate	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 11:17:00 AM

Project: Kirtland AFB

Lab ID: 1103389-034 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0057-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40	H	ppbv	40	4/5/2011 5:13:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	40	4/5/2011 5:13:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	45,000	4,700	H	µg/m³	40	4/11/2011 8:09:00 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	H	µg/m³	40	4/11/2011 8:09:00 PM
C9-C12 Aliphatic Hydrocarbons	18,000	10,000	H	µg/m³	40	4/11/2011 8:09:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	H	%REC	40	4/11/2011 8:09:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 10:38:00 AM

Project: Kirtland AFB

Lab ID: 1103389-035 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0058-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.16	0.30	JH	%	1	3/25/2011 4:54:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 4:54:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 4:54:00 AM
Nitrogen	78	1.4	H	%	1	3/25/2011 4:54:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 4:54:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	71	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,3-Butadiene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
1,4-Dioxane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
2-Butanone	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
2-Hexanone	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
2-Propanol	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
4-Ethyltoluene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Acetone	68	40	H	ppbv	40	4/5/2011 5:54:00 PM
Benzene	670	40	H	ppbv	40	4/5/2011 5:54:00 PM
Benzyl chloride	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Bromodichloromethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 10:38:00 AM

Project: Kirtland AFB

Lab ID: 1103389-035 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0058-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Bromomethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Carbon disulfide	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Carbon tetrachloride	110	40	H	ppbv	40	4/5/2011 5:54:00 PM
Chlorobenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Chlorodibromomethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Chloroethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Chloroform	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Chloromethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Cyclohexane	60	40	mH	ppbv	40	4/5/2011 5:54:00 PM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Ethanol	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Ethyl acetate	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Ethylbenzene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Heptane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
m,p-Xylene	ND	80	H	ppbv	40	4/5/2011 5:54:00 PM
Methylene chloride	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Naphthalene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
n-Hexane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
o-Xylene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Propylene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Styrene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Tetrachloroethene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Tetrahydrofuran	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Toluene	570	40	H	ppbv	40	4/5/2011 5:54:00 PM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Trichloroethene	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Vinyl acetate	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 10:38:00 AM

Project: Kirtland AFB

Lab ID: 1103389-035 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0058-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40	H	ppbv	40	4/5/2011 5:54:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	40	4/5/2011 5:54:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	48,000	4,700	H	µg/m³	40	4/11/2011 8:49:00 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	H	µg/m³	40	4/11/2011 8:49:00 PM
C9-C12 Aliphatic Hydrocarbons	25,000	10,000	H	µg/m³	40	4/11/2011 8:49:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	H	%REC	40	4/11/2011 8:49:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 9:58:00 AM

Project: Kirtland AFB

Lab ID: 1103389-036 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0059-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	ND	0.30	H	%	1	3/25/2011 5:16:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 5:16:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 5:16:00 AM
Nitrogen	78	1.4	H	%	1	3/25/2011 5:16:00 AM
Oxygen	20	0.080	H	%	1	3/25/2011 5:16:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,3-Butadiene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
1,4-Dioxane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
2-Butanone	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
2-Hexanone	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
2-Propanol	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
4-Ethyltoluene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Acetone	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Benzene	45	40	H	ppbv	40	4/5/2011 6:36:00 PM
Benzyl chloride	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Bromodichloromethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 9:58:00 AM

Project: Kirtland AFB

Lab ID: 1103389-036 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0059-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Bromomethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Carbon disulfide	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Carbon tetrachloride	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Chlorobenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Chlorodibromomethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Chloroethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Chloroform	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Chloromethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Cyclohexane	350	40	H	ppbv	40	4/5/2011 6:36:00 PM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Ethanol	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Ethyl acetate	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Ethylbenzene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Heptane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
m,p-Xylene	ND	80	H	ppbv	40	4/5/2011 6:36:00 PM
Methylene chloride	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Naphthalene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
n-Hexane	54	40	H	ppbv	40	4/5/2011 6:36:00 PM
o-Xylene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Propylene	69	40	H	ppbv	40	4/5/2011 6:36:00 PM
Styrene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Tetrachloroethene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Tetrahydrofuran	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Toluene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Trichloroethene	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Vinyl acetate	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 9:58:00 AM

Project: Kirtland AFB

Lab ID: 1103389-036 **Matrix:** AIR

Client Sample ID SVMW-I4-GS-VA0059-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40	H	ppbv	40	4/5/2011 6:36:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	H	%REC	40	4/5/2011 6:36:00 PM
MASS APH AIR				**MA_APH**		Analyst: **MT3**
AIR-PHASE PETROLEUM HYDROCARBONS						
C5-C8 Aliphatic Hydrocarbons	170,000	120,000	H	µg/m³	1000	4/14/2011 11:11:00 AM
C9-C10 Aromatic Hydrocarbons	ND	130,000	H	µg/m³	1000	4/14/2011 11:11:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	250,000	H	µg/m³	1000	4/14/2011 11:11:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	1000	4/14/2011 11:11:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 9:07:00 AM

Project: Kirtland AFB

Lab ID: 1103389-037 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0060-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.3	0.30	H	%	1	3/25/2011 5:36:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/25/2011 5:36:00 AM
Methane	ND	0.090	H	%	1	3/25/2011 5:36:00 AM
Nitrogen	83	1.4	H	%	1	3/25/2011 5:36:00 AM
Oxygen	12	0.080	H	%	1	3/25/2011 5:36:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,3-Butadiene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
1,4-Dioxane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
2-Butanone	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
2-Hexanone	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
2-Propanol	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
4-Ethyltoluene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Acetone	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Benzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Benzyl chloride	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Bromodichloromethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 9:07:00 AM

Project: Kirtland AFB

Lab ID: 1103389-037 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0060-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Bromomethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Carbon disulfide	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Carbon tetrachloride	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Chlorobenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Chlorodibromomethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Chloroethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Chloroform	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Chloromethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Cyclohexane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Ethanol	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Ethyl acetate	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Ethylbenzene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Heptane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
m,p-Xylene	ND	80	H	ppbv	40	4/5/2011 7:19:00 PM
Methylene chloride	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Naphthalene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
n-Hexane	200	40	H	ppbv	40	4/5/2011 7:19:00 PM
o-Xylene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Propylene	740	40	H	ppbv	40	4/5/2011 7:19:00 PM
Styrene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Tetrachloroethene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Tetrahydrofuran	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Toluene	76	40	H	ppbv	40	4/5/2011 7:19:00 PM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Trichloroethene	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Vinyl acetate	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/1/2011 9:07:00 AM

Project: Kirtland AFB

Lab ID: 1103389-037 **Matrix:** AIR

Client Sample ID SVMW-14-GS-VA0060-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40	H	ppbv	40	4/5/2011 7:19:00 PM
Surr: 4-Bromofluorobenzene	125	70-130	H	%REC	40	4/5/2011 7:19:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	5,100,000	470,000	H	µg/m³	4000	4/14/2011 2:00:00 PM
C9-C10 Aromatic Hydrocarbons	ND	530,000	H	µg/m³	4000	4/14/2011 2:00:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000	H	µg/m³	4000	4/14/2011 2:00:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	4000	4/14/2011 2:00:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc

Collection Date: 2/24/2011 12:00:00 PM

Project: Kirtland AFB

Lab ID: 1103389-038

Matrix: AIR

Client Sample ID FIELDQC-AQ-VA8002-TB-TB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TO-15 ANALYSIS VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,1,2,2-Tetrachloroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,1,2-Trichloroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,1-Dichloroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,1-Dichloroethene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,2,4-Trichlorobenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,2,4-Trimethylbenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,2-Dibromoethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,2-Dichlorobenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,2-Dichloroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,2-Dichloropropane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,3,5-Trimethylbenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,3-Butadiene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,3-Dichlorobenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,4-Dichlorobenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
1,4-Dioxane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
2-Butanone	42	24	H	ppbv	24	4/6/2011 2:04:00 AM
2-Hexanone	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
2-Propanol	45	24	H	ppbv	24	4/6/2011 2:04:00 AM
4-Ethyltoluene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
4-Methyl-2-pentanone	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Acetone	210	24	H	ppbv	24	4/6/2011 2:04:00 AM
Benzene	160	24	H	ppbv	24	4/6/2011 2:04:00 AM
Benzyl chloride	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Bromodichloromethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Bromoform	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Bromomethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Carbon disulfide	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Carbon tetrachloride	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Chlorobenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Chlorodibromomethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Chloroethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Chloroform	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM

Qualifiers:

*IX	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103389

Date Reported: 4/19/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 2/24/2011 12:00:00 PM

Project: Kirtland AFB

Lab ID: 1103389-038 **Matrix:** AIR

Client Sample ID FIELDQC-AQ-VA8002-TB-TB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TO-15 ANALYSIS VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Chloromethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
cis-1,2-Dichloroethene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
cis-1,3-dichloropropene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Cyclohexane	430	24	H	ppbv	24	4/6/2011 2:04:00 AM
Dichlorodifluoromethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Ethanol	75	24	H	ppbv	24	4/6/2011 2:04:00 AM
Ethyl acetate	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Ethylbenzene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Heptane	260	24	H	ppbv	24	4/6/2011 2:04:00 AM
Hexachlorobutadiene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
m,p-Xylene	ND	48	H	ppbv	24	4/6/2011 2:04:00 AM
Methylene chloride	170	24	H	ppbv	24	4/6/2011 2:04:00 AM
Naphthalene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
n-Hexane	540	24	EH	ppbv	24	4/6/2011 2:04:00 AM
o-Xylene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Propylene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Styrene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
tert-Butyl Methyl Ether	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Tetrachloroethene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Tetrahydrofuran	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Toluene	250	24	H	ppbv	24	4/6/2011 2:04:00 AM
trans-1,2-Dichloroethene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
trans-1,3-dichloropropene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Trichloroethene	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Trichlorofluoromethane	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Vinyl acetate	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Vinyl chloride	ND	24	H	ppbv	24	4/6/2011 2:04:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	24	4/6/2011 2:04:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39442

Sample ID: lcs SampType: LCS TestCode: ASTM-D2504 Units: % Prep Date: RunNo: 39442
Client ID: ZZZZZZ Batch ID: R39442 TestNo: ASTM-D2504 Analysis Date: 3/22/2011 SeqNo: 748316

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.3	0.10	2.500	0	92.3	70	130				
Carbon Monoxide	2.1	0.10	2.500	0	82.7	70	130				
Methane	2.0	0.50	2.000	0	99.4	70	130				
Nitrogen	2.7	0.10	2.500	0	107	70	130				
Oxygen	2.4	0.10	2.500	0	94.7	70	130				

Sample ID: lcsd SampType: LCSD TestCode: ASTM-D2504 Units: % Prep Date: RunNo: 39442
Client ID: ZZZZZZ Batch ID: R39442 TestNo: ASTM-D2504 Analysis Date: 3/22/2011 SeqNo: 748317

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.4	0.10	2.500	0	96.9	70	130	2.307	4.86	20	
Carbon Monoxide	2.5	0.10	2.500	0	99.6	70	130	2.067	18.5	20	
Methane	2.0	0.50	2.000	0	101	70	130	1.987	1.45	20	
Nitrogen	3.2	0.10	2.500	0	128	70	130	2.686	17.5	20	
Oxygen	2.6	0.10	2.500	0	105	70	130	2.367	10.2	20	

Sample ID: mb SampType: MBLK TestCode: ASTM-D2504 Units: % Prep Date: RunNo: 39442
Client ID: ZZZZZZ Batch ID: R39442 TestNo: ASTM-D2504 Analysis Date: 3/22/2011 SeqNo: 748318

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30									
Carbon Monoxide	ND	0.14									
Methane	ND	0.090									
Nitrogen	ND	1.4									
Oxygen	ND	0.080									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39442

Sample ID: **1103389-008adup** SampType: **DUP** TestCode: **ASTM-D2504** Units: **%** Prep Date: RunNo: **39442**

Client ID: **SVMW-04-GS-VA001** Batch ID: **R39442** TestNo: **ASTM-D2504** Analysis Date: **3/22/2011** SeqNo: **748327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	5.1	0.30						5.167	0.543	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	79	1.4						79.34	0.342	20	H
Oxygen	11	0.080						11.42	0.333	20	H

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39444

Sample ID: lcs	SampType: LCS	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39444
Client ID: ZZZZZZ	Batch ID: R39444	TestNo: ASTM-D2504		Analysis Date: 3/23/2011	SeqNo: 748349

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.4	0.10	2.500	0	94.6	70	130				
Carbon Monoxide	2.5	0.10	2.500	0	102	70	130				
Methane	2.0	0.50	2.000	0	98.6	70	130				
Nitrogen	2.8	0.10	2.500	0	113	70	130				
Oxygen	2.5	0.10	2.500	0	99.3	70	130				

Sample ID: lcsd	SampType: LCSD	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39444
Client ID: ZZZZZZ	Batch ID: R39444	TestNo: ASTM-D2504		Analysis Date: 3/23/2011	SeqNo: 748350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.3	0.10	2.500	0	91.9	70	130	2.365	2.92	20	
Carbon Monoxide	2.5	0.10	2.500	0	99.9	70	130	2.539	1.63	20	
Methane	2.0	0.50	2.000	0	98.8	70	130	1.972	0.152	20	
Nitrogen	3.0	0.10	2.500	0	120	70	130	2.826	6.07	20	
Oxygen	2.6	0.10	2.500	0	103	70	130	2.483	3.64	20	

Sample ID: mb	SampType: MBLK	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39444
Client ID: ZZZZZZ	Batch ID: R39444	TestNo: ASTM-D2504		Analysis Date: 3/24/2011	SeqNo: 748351

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30									
Carbon Monoxide	ND	0.14									
Methane	ND	0.090									
Nitrogen	ND	1.4									
Oxygen	ND	0.080									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39444

Sample ID: **1103389-028adup** SampType: **DUP** TestCode: **ASTM-D2504** Units: **%** Prep Date: RunNo: **39444**

Client ID: **SVMW-11-GS-VA004** Batch ID: **R39444** TestNo: **ASTM-D2504** Analysis Date: **3/24/2011** SeqNo: **748362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30						0	0	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	76	1.4						76.05	0.501	20	H
Oxygen	20	0.080						20.44	0.466	20	H

Sample ID: **1103389-037adup** SampType: **DUP** TestCode: **ASTM-D2504** Units: **%** Prep Date: RunNo: **39445**

Client ID: **SVMW-14-GS-VA006** Batch ID: **R39444** TestNo: **ASTM-D2504** Analysis Date: **3/25/2011** SeqNo: **748377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	1.3	0.30						1.283	1.39	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	84	1.4						83.34	0.661	20	H
Oxygen	12	0.080						12.27	0.666	20	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: **1103389**
19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB **BatchID:** **R39444**

Sample ID: **lcs**	SampType: **LCS**	TestCode: **ASTM-D2504**	Units: **%**	Prep Date:	RunNo: **39444**
Client ID: **ZZZZZZ**	Batch ID: **R39444**	TestNo: **ASTM-D2504**		Analysis Date: **3/23/2011**	SeqNo: **748349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.4	0.10	2.500	0	94.6	70	130				
Carbon Monoxide	2.5	0.10	2.500	0	102	70	130				
Methane	2.0	0.50	2.000	0	98.6	70	130				
Nitrogen	2.8	0.10	2.500	0	113	70	130				
Oxygen	2.5	0.10	2.500	0	99.3	70	130				

Sample ID: **lcsd**	SampType: **LCSD**	TestCode: **ASTM-D2504**	Units: **%**	Prep Date:	RunNo: **39444**
Client ID: **ZZZZZZ**	Batch ID: **R39444**	TestNo: **ASTM-D2504**		Analysis Date: **3/23/2011**	SeqNo: **748350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.3	0.10	2.500	0	91.9	70	130	2.365	2.92	20	
Carbon Monoxide	2.5	0.10	2.500	0	99.9	70	130	2.539	1.63	20	
Methane	2.0	0.50	2.000	0	98.8	70	130	1.972	0.152	20	
Nitrogen	3.0	0.10	2.500	0	120	70	130	2.826	6.07	20	
Oxygen	2.6	0.10	2.500	0	103	70	130	2.483	3.64	20	

Sample ID: **mb**	SampType: **MBLK**	TestCode: **ASTM-D2504**	Units: **%**	Prep Date:	RunNo: **39444**
Client ID: **ZZZZZZ**	Batch ID: **R39444**	TestNo: **ASTM-D2504**		Analysis Date: **3/24/2011**	SeqNo: **748351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30									
Carbon Monoxide	ND	0.14									
Methane	ND	0.090									
Nitrogen	ND	1.4									
Oxygen	ND	0.080									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39444

Sample ID: **1103389-028adup** SampType: **DUP** TestCode: **ASTM-D2504** Units: **%** Prep Date: RunNo: **39444**
Client ID: **SVMW-11-GS-VA004** Batch ID: **R39444** TestNo: **ASTM-D2504** Analysis Date: **3/24/2011** SeqNo: **748362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30						0	0	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	76	1.4						76.05	0.501	20	H
Oxygen	20	0.080						20.44	0.466	20	H

Sample ID: **1103389-037adup** SampType: **DUP** TestCode: **ASTM-D2504** Units: **%** Prep Date: RunNo: **39445**
Client ID: **SVMW-14-GS-VA006** Batch ID: **R39444** TestNo: **ASTM-D2504** Analysis Date: **3/25/2011** SeqNo: **748377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	1.3	0.30						1.283	1.39	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	84	1.4						83.34	0.661	20	H
Oxygen	12	0.080						12.27	0.666	20	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39600

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39600**

Client ID: **ZZZZZZ** Batch ID: **R39600** TestNo: **TO-15M** Analysis Date: **4/1/2011** SeqNo: **752016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: **1103389**

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB **BatchID:** **R39600**

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39600**
Client ID: **ZZZZZZ** Batch ID: **R39600** TestNo: **TO-15M** Analysis Date: **4/1/2011** SeqNo: **752016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39600

Sample ID: MBLK	SampType: MBLK	TestCode: EPA_TO15-U	Units: ppbv	Prep Date:	RunNo: 39600
Client ID: ZZZZZZ	Batch ID: R39600	TestNo: TO-15M		Analysis Date: 4/1/2011	SeqNo: 752016

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	11		12.50		91.8	70	130				

Sample ID: 1103389-013BDUP	SampType: DUP	TestCode: EPA_TO15-U	Units: ppbv	Prep Date:	RunNo: 39600
Client ID: SVMW-05-GS-VA001	Batch ID: R39600	TestNo: TO-15M		Analysis Date: 4/1/2011	SeqNo: 752020

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	10						0	0	25	H
1,1,2,2-Tetrachloroethane	ND	10						0	0	25	H
1,1,2-Trichloro-1,2,2-trifluoroethane	13	10						12.70	2.33	25	H
1,1,2-Trichloroethane	ND	10						0	0	25	H
1,1-Dichloroethane	ND	10						0	0	25	H
1,1-Dichloroethene	ND	10						0	0	25	H
1,2,4-Trichlorobenzene	ND	10						0	0	25	H
1,2,4-Trimethylbenzene	ND	10						0	0	25	H
1,2-Dibromoethane	ND	10						0	0	25	H
1,2-Dichlorobenzene	ND	10						0	0	25	H
1,2-Dichloroethane	ND	10						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39600

Sample ID: **1103389-013BDUP** SampType: **DUP** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39600**

Client ID: **SVMW-05-GS-VA001** Batch ID: **R39600** TestNo: **TO-15M** Analysis Date: **4/1/2011** SeqNo: **752020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	10						0	0	25	H
1,3,5-Trimethylbenzene	ND	10						0	0	25	H
1,3-Butadiene	ND	10						0	0	25	H
1,3-Dichlorobenzene	ND	10						0	0	25	H
1,4-Dichlorobenzene	ND	10						0	0	25	H
1,4-Dioxane	ND	10						0	0	25	H
2-Butanone	ND	10						0	0	25	H
2-Hexanone	ND	10						0	0	25	H
2-Propanol	16	10						0	200	25	RH
4-Ethyltoluene	ND	10						0	0	25	H
4-Methyl-2-pentanone	ND	10						0	0	25	H
Acetone	91	10						93.00	2.50	25	H
Benzene	ND	10						0	0	25	H
Benzyl chloride	ND	10						0	0	25	H
Bromodichloromethane	ND	10						0	0	25	H
Bromoform	ND	10						0	0	25	H
Bromomethane	ND	10						0	0	25	H
Carbon disulfide	ND	10						0	0	25	H
Carbon tetrachloride	ND	10						0	0	25	H
Chlorobenzene	ND	10						0	0	25	H
Chlorodibromomethane	ND	10						0	0	25	H
Chloroethane	ND	10						0	0	25	H
Chloroform	ND	10						0	0	25	H
Chloromethane	ND	10						0	0	25	H
cis-1,2-Dichloroethene	ND	10						0	0	25	H
cis-1,3-dichloropropene	ND	10						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: **1103389**

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** **R39600**

Sample ID: **1103389-013BDUP** SampType: **DUP** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39600**

Client ID: **SVMW-05-GS-VA001** Batch ID: **R39600** TestNo: **TO-15M** Analysis Date: **4/1/2011** SeqNo: **752020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	11	10						10.10	9.43	25	H
Dichlorodifluoromethane	ND	10						0	0	25	H
Ethanol	ND	10						0	0	25	H
Ethyl acetate	ND	10						0	0	25	H
Ethylbenzene	ND	10						0	0	25	H
Heptane	ND	10						0	0	25	H
Hexachlorobutadiene	ND	10						0	0	25	H
m,p-Xylene	ND	20						0	0	25	H
Methylene chloride	ND	10						0	0	25	H
Naphthalene	ND	10						0	0	25	H
n-Hexane	ND	10						0	0	25	H
o-Xylene	ND	10						0	0	25	H
Propylene	ND	10						0	0	25	H
Styrene	ND	10						0	0	25	H
tert-Butyl Methyl Ether	ND	10						0	0	25	H
Tetrachloroethene	ND	10						0	0	25	H
Tetrahydrofuran	ND	10						0	0	25	H
Toluene	16	10						15.30	1.30	25	H
trans-1,2-Dichloroethene	ND	10						0	0	25	H
trans-1,3-dichloropropene	ND	10						0	0	25	H
Trichloroethene	ND	10						0	0	25	H
Trichlorofluoromethane	ND	10						0	0	25	H
Vinyl acetate	ND	10						0	0	25	H
Vinyl chloride	ND	10						0	0	25	H
Surr: 4-Bromofluorobenzene	120		125.0		98.1	70	130		0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39618

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39618**

Client ID: **ZZZZZZ** Batch ID: **R39618** TestNo: **TO-15M** Analysis Date: **4/2/2011** SeqNo: **752550**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39618

Sample ID: MBLK	SampType: MBLK	TestCode: EPA_TO15-U	Units: ppbv	Prep Date:	RunNo: 39618
Client ID: ZZZZZZ	Batch ID: R39618	TestNo: TO-15M		Analysis Date: 4/2/2011	SeqNo: 752550

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39618

Sample ID: MBLK SampType: MBLK TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39618
Client ID: ZZZZZZ Batch ID: R39618 TestNo: TO-15M Analysis Date: 4/2/2011 SeqNo: 752550

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	12		12.50		92.8	70	130				

Sample ID: 1103389-015BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39618
Client ID: SVMW-05-GS-VA002 Batch ID: R39618 TestNo: TO-15M Analysis Date: 4/2/2011 SeqNo: 752553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	40						0	0	25	H
1,1,2,2-Tetrachloroethane	ND	40						0	0	25	H
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40						0	0	25	H
1,1,2-Trichloroethane	ND	40						0	0	25	H
1,1-Dichloroethane	ND	40						0	0	25	H
1,1-Dichloroethene	ND	40						0	0	25	H
1,2,4-Trichlorobenzene	ND	40						0	0	25	H
1,2,4-Trimethylbenzene	ND	40						0	0	25	H
1,2-Dibromoethane	ND	40						0	0	25	H
1,2-Dichlorobenzene	ND	40						0	0	25	H
1,2-Dichloroethane	ND	40						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39618

Sample ID: 1103389-015BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39618

Client ID: SVMW-05-GS-VA002 Batch ID: R39618 TestNo: TO-15M Analysis Date: 4/2/2011 SeqNo: 752553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	40						0	0	25	H
1,3,5-Trimethylbenzene	ND	40						0	0	25	H
1,3-Butadiene	ND	40						0	0	25	H
1,3-Dichlorobenzene	ND	40						0	0	25	H
1,4-Dichlorobenzene	ND	40						0	0	25	H
1,4-Dioxane	ND	40						0	0	25	H
2-Butanone	ND	40						0	0	25	H
2-Hexanone	ND	40						0	0	25	H
2-Propanol	ND	40						0	0	25	H
4-Ethyltoluene	ND	40						0	0	25	H
4-Methyl-2-pentanone	ND	40						0	0	25	H
Acetone	110	40						136.8	20.3	25	H
Benzene	200	40						232.8	13.4	25	H
Benzyl chloride	ND	40						0	0	25	H
Bromodichloromethane	ND	40						0	0	25	H
Bromoform	ND	40						0	0	25	H
Bromomethane	ND	40						0	0	25	H
Carbon disulfide	ND	40						0	0	25	H
Carbon tetrachloride	ND	40						0	0	25	H
Chlorobenzene	ND	40						0	0	25	H
Chlorodibromomethane	ND	40						0	0	25	H
Chloroethane	ND	40						0	0	25	H
Chloroform	ND	40						0	0	25	H
Chloromethane	ND	40						0	0	25	H
cis-1,2-Dichloroethene	ND	40						0	0	25	H
cis-1,3-dichloropropene	ND	40						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39618

Sample ID: 1103389-015BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39618

Client ID: SVMW-05-GS-VA002 Batch ID: R39618 TestNo: TO-15M Analysis Date: 4/2/2011 SeqNo: 752553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	210	40						251.2	15.6	25	H
Dichlorodifluoromethane	ND	40						0	0	25	H
Ethanol	ND	40						0	0	25	H
Ethyl acetate	ND	40						0	0	25	H
Ethylbenzene	ND	40						0	0	25	H
Heptane	40	40						45.20	12.2	25	H
Hexachlorobutadiene	ND	40						0	0	25	H
m,p-Xylene	ND	80						0	0	25	H
Methylene chloride	ND	40						0	0	25	H
Naphthalene	ND	40						0	0	25	H
n-Hexane	100	40						119.6	14.0	25	H
o-Xylene	ND	40						0	0	25	H
Propylene	ND	40						0	0	25	H
Styrene	ND	40						0	0	25	H
tert-Butyl Methyl Ether	ND	40						0	0	25	H
Tetrachloroethene	ND	40						0	0	25	H
Tetrahydrofuran	ND	40						0	0	25	H
Toluene	43	40						47.20	9.78	25	H
trans-1,2-Dichloroethene	ND	40						0	0	25	H
trans-1,3-dichloropropene	ND	40						0	0	25	H
Trichloroethene	ND	40						0	0	25	H
Trichlorofluoromethane	ND	40						0	0	25	H
Vinyl acetate	ND	40						0	0	25	H
Vinyl chloride	ND	40						0	0	25	H
Surr: 4-Bromofluorobenzene	530		500.0		106	70	130		0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39639

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39639**

Client ID: **ZZZZZZ** Batch ID: **R39639** TestNo: **TO-15M** Analysis Date: **4/5/2011** SeqNo: **752963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39639

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39639**

Client ID: **ZZZZZZ** Batch ID: **R39639** TestNo: **TO-15M** Analysis Date: **4/5/2011** SeqNo: **752963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39639

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39639**

Client ID: **ZZZZZZ** Batch ID: **R39639** TestNo: **TO-15M** Analysis Date: **4/5/2011** SeqNo: **752963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	12		12.50		94.2	70	130				

Sample ID: **1103389-010BDUP** SampType: **DUP** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39639**

Client ID: **SVMW-04-GS-VA001** Batch ID: **R39639** TestNo: **TO-15M** Analysis Date: **4/5/2011** SeqNo: **752965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	80,000						0	0	25	H
1,1,2,2-Tetrachloroethane	ND	80,000						0	0	25	H
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	80,000						0	0	25	H
1,1,2-Trichloroethane	ND	80,000						0	0	25	H
1,1-Dichloroethane	ND	80,000						0	0	25	H
1,1-Dichloroethene	ND	80,000						0	0	25	H
1,2,4-Trichlorobenzene	ND	80,000						0	0	25	H
1,2,4-Trimethylbenzene	ND	80,000						0	0	25	H
1,2-Dibromoethane	ND	80,000						0	0	25	H
1,2-Dichlorobenzene	ND	80,000						0	0	25	H
1,2-Dichloroethane	ND	80,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39639

Sample ID: 1103389-010BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639

Client ID: SVMW-04-GS-VA001 Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	80,000						0	0	25	H
1,3,5-Trimethylbenzene	ND	80,000						0	0	25	H
1,3-Butadiene	ND	80,000						0	0	25	H
1,3-Dichlorobenzene	ND	80,000						0	0	25	H
1,4-Dichlorobenzene	ND	80,000						0	0	25	H
1,4-Dioxane	ND	80,000						0	0	25	H
2-Butanone	ND	80,000						0	0	25	H
2-Hexanone	ND	80,000						0	0	25	H
2-Propanol	ND	80,000						0	0	25	H
4-Ethyltoluene	ND	80,000						0	0	25	H
4-Methyl-2-pentanone	ND	80,000						0	0	25	H
Acetone	ND	80,000						0	0	25	H
Benzene	320,000	80,000						316,000	0	25	H
Benzyl chloride	ND	80,000						0	0	25	H
Bromodichloromethane	ND	80,000						0	0	25	H
Bromoform	ND	80,000						0	0	25	H
Bromomethane	ND	80,000						0	0	25	H
Carbon disulfide	ND	80,000						0	0	25	H
Carbon tetrachloride	ND	80,000						0	0	25	H
Chlorobenzene	ND	80,000						0	0	25	H
Chlorodibromomethane	ND	80,000						0	0	25	H
Chloroethane	ND	80,000						0	0	25	H
Chloroform	ND	80,000						0	0	25	H
Chloromethane	ND	80,000						0	0	25	H
cis-1,2-Dichloroethene	ND	80,000						0	0	25	H
cis-1,3-dichloropropene	ND	80,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39639

Sample ID: 1103389-010BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639

Client ID: SVMW-04-GS-VA001 Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	1,200,000	80,000						1,263,000	3.22	25	H
Dichlorodifluoromethane	ND	80,000						0	0	25	H
Ethanol	ND	80,000						0	0	25	H
Ethyl acetate	ND	80,000						0	0	25	H
Ethylbenzene	ND	80,000						0	0	25	H
Heptane	610,000	80,000						608,000	0.656	25	H
Hexachlorobutadiene	ND	80,000						0	0	25	H
m,p-Xylene	ND	160,000						0	0	25	H
Methylene chloride	ND	80,000						0	0	25	H
Naphthalene	ND	80,000						0	0	25	H
n-Hexane	1,200,000	80,000						1,239,000	5.23	25	H
o-Xylene	ND	80,000						0	0	25	H
Propylene	ND	80,000						0	0	25	H
Styrene	ND	80,000						0	0	25	H
tert-Butyl Methyl Ether	ND	80,000						0	0	25	H
Tetrachloroethene	ND	80,000						0	0	25	H
Tetrahydrofuran	ND	80,000						0	0	25	H
Toluene	440,000	80,000						436,800	1.45	25	H
trans-1,2-Dichloroethene	ND	80,000						0	0	25	H
trans-1,3-dichloropropene	ND	80,000						0	0	25	H
Trichloroethene	ND	80,000						0	0	25	H
Trichlorofluoromethane	ND	80,000						0	0	25	H
Vinyl acetate	ND	80,000						0	0	25	H
Vinyl chloride	ND	80,000						0	0	25	H
Surr: 4-Bromofluorobenzene	970,000		1,000,000		96.7	70	130		0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39665

Sample ID: MBLK SampType: MBLK TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39665

Client ID: ZZZZZZ Batch ID: R39665 TestNo: TO-15M Analysis Date: 4/6/2011 SeqNo: 753230

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39665

Sample ID: MBLK SampType: MBLK TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39665

Client ID: ZZZZZZ Batch ID: R39665 TestNo: TO-15M Analysis Date: 4/6/2011 SeqNo: 753230

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39665

Sample ID: MBLK	SampType: MBLK	TestCode: EPA_TO15-U	Units: ppbv	Prep Date:	RunNo: 39665
Client ID: ZZZZZZ	Batch ID: R39665	TestNo: TO-15M		Analysis Date: 4/6/2011	SeqNo: 753230

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	12		12.50		97.5	70	130				

Sample ID: 1103389-019BDUP	SampType: DUP	TestCode: EPA_TO15-U	Units: ppbv	Prep Date:	RunNo: 39665
Client ID: SVMW-07-GS-VA002	Batch ID: R39665	TestNo: TO-15M		Analysis Date: 4/6/2011	SeqNo: 753233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	8,000						0	0	25	H
1,1,2,2-Tetrachloroethane	ND	8,000						0	0	25	H
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000						0	0	25	H
1,1,2-Trichloroethane	ND	8,000						0	0	25	H
1,1-Dichloroethane	ND	8,000						0	0	25	H
1,1-Dichloroethene	ND	8,000						0	0	25	H
1,2,4-Trichlorobenzene	ND	8,000						0	0	25	H
1,2,4-Trimethylbenzene	ND	8,000						0	0	25	H
1,2-Dibromoethane	ND	8,000						0	0	25	H
1,2-Dichlorobenzene	ND	8,000						0	0	25	H
1,2-Dichloroethane	ND	8,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39665

Sample ID: 1103389-019BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39665

Client ID: SVMW-07-GS-VA002 Batch ID: R39665 TestNo: TO-15M Analysis Date: 4/6/2011 SeqNo: 753233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	8,000						0	0	25	H
1,3,5-Trimethylbenzene	ND	8,000						0	0	25	H
1,3-Butadiene	ND	8,000						0	0	25	H
1,3-Dichlorobenzene	ND	8,000						0	0	25	H
1,4-Dichlorobenzene	ND	8,000						0	0	25	H
1,4-Dioxane	ND	8,000						0	0	25	H
2-Butanone	ND	8,000						0	0	25	H
2-Hexanone	ND	8,000						0	0	25	H
2-Propanol	ND	8,000						0	0	25	H
4-Ethyltoluene	ND	8,000						0	0	25	H
4-Methyl-2-pentanone	ND	8,000						0	0	25	H
Acetone	ND	8,000						0	0	25	H
Benzene	ND	8,000						0	0	25	H
Benzyl chloride	ND	8,000						0	0	25	H
Bromodichloromethane	ND	8,000						0	0	25	H
Bromoform	ND	8,000						0	0	25	H
Bromomethane	ND	8,000						0	0	25	H
Carbon disulfide	ND	8,000						0	0	25	H
Carbon tetrachloride	ND	8,000						0	0	25	H
Chlorobenzene	ND	8,000						0	0	25	H
Chlorodibromomethane	ND	8,000						0	0	25	H
Chloroethane	ND	8,000						0	0	25	H
Chloroform	ND	8,000						0	0	25	H
Chloromethane	ND	8,000						0	0	25	H
cis-1,2-Dichloroethene	ND	8,000						0	0	25	H
cis-1,3-dichloropropene	ND	8,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39665

Sample ID: **1103389-019BDUP** SampType: **DUP** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39665**

Client ID: **SVMW-07-GS-VA002** Batch ID: **R39665** TestNo: **TO-15M** Analysis Date: **4/6/2011** SeqNo: **753233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	17,000	8,000						17,920	3.64	25	H
Dichlorodifluoromethane	ND	8,000						0	0	25	H
Ethanol	ND	8,000						0	0	25	H
Ethyl acetate	ND	8,000						0	0	25	H
Ethylbenzene	ND	8,000						0	0	25	H
Heptane	19,000	8,000						19,760	2.04	25	H
Hexachlorobutadiene	ND	8,000						0	0	25	H
m,p-Xylene	ND	16,000						0	0	25	H
Methylene chloride	ND	8,000						0	0	25	H
Naphthalene	ND	8,000						0	0	25	H
n-Hexane	13,000	8,000						13,120	1.23	25	H
o-Xylene	ND	8,000						0	0	25	H
Propylene	ND	8,000						0	0	25	H
Styrene	ND	8,000						0	0	25	H
tert-Butyl Methyl Ether	ND	8,000						0	0	25	H
Tetrachloroethene	ND	8,000						0	0	25	H
Tetrahydrofuran	ND	8,000						0	0	25	H
Toluene	30,000	8,000						30,720	1.05	25	H
trans-1,2-Dichloroethene	ND	8,000						0	0	25	H
trans-1,3-dichloropropene	ND	8,000						0	0	25	H
Trichloroethene	ND	8,000						0	0	25	H
Trichlorofluoromethane	ND	8,000						0	0	25	H
Vinyl acetate	ND	8,000						0	0	25	H
Vinyl chloride	ND	8,000						0	0	25	H
Surr: 4-Bromofluorobenzene	99,000		100,000		99.3	70	130		0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
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QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39774

Sample ID: 1103389-002BDUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39774
Client ID: SVMW-01-GS-VA000	Batch ID: R39774	TestNo: MA_APH		Analysis Date: 4/9/2011	SeqNo: 755799

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	16,000,000	4,700,000						17,610,000	7.14	30	H
C9-C10 Aromatic Hydrocarbons	ND	5,300,000						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	10,000,000						0	0	30	H
Surr: 4-Bromofluorobenzene	3,600,000		3,580,000		102	70	130		0	30	H

Sample ID: MBLK 4/09/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39774
Client ID: ZZZZZZ	Batch ID: R39774	TestNo: MA_APH		Analysis Date: 4/10/2011	SeqNo: 755812

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	89		89.50		99.8	70	130				

Sample ID: MBLK 4/10/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39774
Client ID: ZZZZZZ	Batch ID: R39774	TestNo: MA_APH		Analysis Date: 4/10/2011	SeqNo: 755813

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	89		89.50		99.1	70	130				

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39774

Sample ID: 1103389-015BDUP SampType: DUP TestCode: MA_APH Units: µg/m³ Prep Date: RunNo: 39774

Client ID: SVMW-05-GS-VA002 Batch ID: R39774 TestNo: MA_APH Analysis Date: 4/10/2011 SeqNo: 755863

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	25,000	4,700						24,960	1.07	30	H
C9-C10 Aromatic Hydrocarbons	ND	5,300						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	38,000	10,000						39,470	3.77	30	H
Surr: 4-Bromofluorobenzene	4,000		3,580		111	70	130		0	30	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39776

Sample ID: MBLK 4/11/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: ZZZZZZ	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/11/2011	SeqNo: 755878

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	89		89.50		99.7	70	130				

Sample ID: 1103389-025BDUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: SVMW-11-GS-VA004	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/11/2011	SeqNo: 755880

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	17,000,000	9,400,000						19,540,000	14.5	30	H
C9-C10 Aromatic Hydrocarbons	ND	11,000,000						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000						0	0	30	H
Surr: 4-Bromofluorobenzene	7,300,000		7,160,000		102	70	130		0	30	H

Sample ID: MBLK(2) 4/1/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: ZZZZZZ	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/11/2011	SeqNo: 755892

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	88		89.50		98.3	70	130				

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39776

Sample ID: 1103609-001ADUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: ZZZZZZ	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/12/2011	SeqNo: 755894

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	2,000,000	470,000						2,038,000	1.59	30	H
C9-C10 Aromatic Hydrocarbons	ND	530,000						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000						0	0	30	H
Surr: 4-Bromofluorobenzene	380,000		358,000		106	70	130		0	30	H

167 of 1887

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103389

19-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **BatchID:** R39813

Sample ID: MBLK 4/13/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39813
Client ID: ZZZZZZ	Batch ID: R39813	TestNo: MA_APH		Analysis Date: 4/13/2011	SeqNo: 756896

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	85		89.50		94.7	70	130				

Sample ID: 1103609-004ADUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39813
Client ID: ZZZZZZ	Batch ID: R39813	TestNo: MA_APH		Analysis Date: 4/13/2011	SeqNo: 756898

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	850,000	47,000						852,800	0.768	30	H
C9-C10 Aromatic Hydrocarbons	ND	53,000						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	100,000						0	0	30	H
Surr: 4-Bromofluorobenzene	36,000		35,800		101	70	130		0	30	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI Laboratories

Run ID: VOA1_110401A **Run No.:** 39600

Analytical Run Date: 4/1/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39600	4/1/2011 11:12:00 AM	Charles O'Bryan		
TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39600	4/1/2011 11:53:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	4/1/2011 2:22:00 PM	Charles O'Bryan		
MBLK	EPA_TO15-UG/M3	MBLK	R39600	4/1/2011 3:05:00 PM	Charles O'Bryan		
1103389-001B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 3:47:00 PM	Charles O'Bryan	H	
1103389-003B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 4:32:00 PM	Charles O'Bryan	H	
1103389-013B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 5:14:00 PM	Charles O'Bryan	H	
1103389-013BDUP	EPA_TO15-UG/M3	DUP	R39600	4/1/2011 5:57:00 PM	Charles O'Bryan	H	
1103389-004B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 6:40:00 PM	Charles O'Bryan	H	
1103389-005B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 7:23:00 PM	Charles O'Bryan		
1103389-006B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 8:05:00 PM	Charles O'Bryan		
1103389-007B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 8:45:00 PM	Charles O'Bryan		
1103389-008B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 9:26:00 PM	Charles O'Bryan	H	
1103389-009B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 10:07:00 PM	Charles O'Bryan	H	
1103389-010B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 10:47:00 PM	Charles O'Bryan	H	
1103389-011B	EPA_TO15-UG/M3	SAMP	R39600	4/1/2011 11:28:00 PM	Charles O'Bryan	H	
1103389-012B	EPA_TO15-UG/M3	SAMP	R39600	4/2/2011 12:11:00 AM	Charles O'Bryan	H	
1103389-014B	EPA_TO15-UG/M3	SAMP	R39600	4/2/2011 12:54:00 AM	Charles O'Bryan	H	
1103389-002B	EPA_TO15-UG/M3	SAMP	R39600	4/2/2011 1:35:00 AM	Charles O'Bryan	H	
1103389-031B	EPA_TO15-UG/M3	SAMP	R39600	4/2/2011 2:16:00 AM	Charles O'Bryan		
1103389-033B	EPA_TO15-UG/M3	SAMP	R39600	4/2/2011 8:28:00 AM	Charles O'Bryan	H	
1103389-032B	EPA_TO15-UG/M3	SAMP	R39600	4/2/2011 9:11:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	4/2/2011 9:56:00 AM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110402A **Run No.:** 39618

Analytical Run Date: 4/2/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39618	4/2/2011 10:40:00 AM	Charles O'Bryan		
TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39618	4/2/2011 11:19:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	4/2/2011 12:00:00 PM	Charles O'Bryan		
MBLK	EPA_TO15-UG/M3	MBLK	R39618	4/2/2011 12:43:00 PM	Charles O'Bryan		
1103389-001B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 2:11:00 PM	Charles O'Bryan	H	
1103389-015B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 2:52:00 PM	Charles O'Bryan	H	
1103389-015BDUP	EPA_TO15-UG/M3	DUP	R39618	4/2/2011 3:33:00 PM	Charles O'Bryan	H	
1103389-002B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 4:14:00 PM	Charles O'Bryan	H	
1103389-002B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 4:56:00 PM	Charles O'Bryan	H	
1103389-003B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 5:39:00 PM	Charles O'Bryan	H	
1103389-004B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 6:21:00 PM	Charles O'Bryan	H	
1103389-005B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 7:02:00 PM	Charles O'Bryan		
1103389-006B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 7:43:00 PM	Charles O'Bryan		
1103389-007B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 8:24:00 PM	Charles O'Bryan		
1103389-010B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 9:05:00 PM	Charles O'Bryan	H	
1103389-012B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 10:28:00 PM	Charles O'Bryan	H	
1103389-014B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 11:09:00 PM	Charles O'Bryan	H	
1103389-016B	EPA_TO15-UG/M3	SAMP	R39618	4/2/2011 11:51:00 PM	Charles O'Bryan	H	
1103389-017B	EPA_TO15-UG/M3	SAMP	R39618	4/3/2011 12:33:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	4/3/2011 1:14:00 AM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110405A **Run No.:** 39639

Analytical Run Date: 4/5/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39639	4/5/2011 10:02:00 AM	Charles O'Bryan		
TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	4/5/2011 11:27:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	4/5/2011 12:10:00 PM	Charles O'Bryan		
MBLK	EPA_TO15-UG/M3	MBLK	R39639	4/5/2011 12:54:00 PM	Charles O'Bryan		
1103389-010B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 3:06:00 PM	Charles O'Bryan	H	
1103389-010BDUP	EPA_TO15-UG/M3	DUP	R39639	4/5/2011 3:48:00 PM	Charles O'Bryan	H	
1103389-021B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 4:30:00 PM	Charles O'Bryan	H	
1103389-034B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 5:13:00 PM	Charles O'Bryan	H	
1103389-035B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 5:54:00 PM	Charles O'Bryan	H	
1103389-036B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 6:36:00 PM	Charles O'Bryan	H	
1103389-037B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 7:19:00 PM	Charles O'Bryan	H	
1103389-022B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 8:04:00 PM	Charles O'Bryan	H	
1103389-023B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 8:49:00 PM	Charles O'Bryan	H	
1103389-024B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 9:34:00 PM	Charles O'Bryan	H	
1103389-025B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 10:19:00 PM	Charles O'Bryan	H	
1103389-026B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 11:04:00 PM	Charles O'Bryan	H	
1103389-027B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 12:33:00 AM	Charles O'Bryan	H	
1103389-028B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 1:18:00 AM	Charles O'Bryan	H	
1103389-038A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 2:04:00 AM	Charles O'Bryan	H	
1103389-029B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 2:49:00 AM	Charles O'Bryan	H	
1103389-030B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 3:33:00 AM	Charles O'Bryan	H	
1103609-001A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 4:18:00 AM	Charles O'Bryan	H	
1103609-006A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 5:46:00 AM	Charles O'Bryan		
1103609-007A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 6:31:00 AM	Charles O'Bryan		
1103609-008A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 7:15:00 AM	Charles O'Bryan		
1103609-009A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 7:59:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	4/6/2011 9:31:00 AM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110406A **Run No.:** 39665

Analytical Run Date: 4/6/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39665	4/6/2011 10:17:00 AM	Charles O'Bryan		
TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	4/6/2011 11:09:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	4/6/2011 11:53:00 AM	Charles O'Bryan		
MBLK	EPA_TO15-UG/M3	MBLK	R39665	4/6/2011 1:20:00 PM	Charles O'Bryan		
1103389-018B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 4:27:00 PM	Charles O'Bryan	H	
1103389-019B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 5:50:00 PM	Charles O'Bryan	H	
1103389-019BDUP	EPA_TO15-UG/M3	DUP	R39665	4/6/2011 6:33:00 PM	Charles O'Bryan	H	
1103389-020B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 7:15:00 PM	Charles O'Bryan	H	
1103389-021B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 7:58:00 PM	Charles O'Bryan	H	
1103389-022B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 9:23:00 PM	Charles O'Bryan	H	
1103389-023B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 10:06:00 PM	Charles O'Bryan	H	
1103389-025B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 10:48:00 PM	Charles O'Bryan	H	
1103389-026B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 11:31:00 PM	Charles O'Bryan	H	
1103389-027B	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 12:13:00 AM	Charles O'Bryan	H	
1103609-017A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 12:56:00 AM	Charles O'Bryan	H	
1103609-008A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 1:39:00 AM	Charles O'Bryan	H	
1103609-009A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 2:21:00 AM	Charles O'Bryan	H	
1103609-005A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 5:12:00 AM	Charles O'Bryan		
1103609-010A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 9:32:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	4/7/2011 10:15:00 AM	Charles O'Bryan		Some compound are high due to carryover from high contamination of previoulsy ran sample.

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39600

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752013	BFB 50cc voa020211c	BFB_TUNE	TUNE	\\1\DATA\040111	4/1/2011 11:12:0	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.5	0.5		0	0	0	0	0	0	0%	0	2	0%	
174	M		86.5	86.5		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.4	7.4		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.6	97.6		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.3	17.3		0	0	0	0	0	0	0%	8	40	0%	
75	M		45.8	45.8		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752014	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\1\DATA\040111	4/1/2011 11:53:0	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	9.33	9.33		10	0	0	1	1	0	93%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.51	1.51		4.17	0	0	1	1	0	36%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	9.63	9.63		9.8	0	0	1	1	0	98%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	8.46	8.46		10	0	0	1	1	0	85%	70	130	0%	
1,1-Dichloroethane	A	ppbv	9.91	9.91		10	0	0	1	1	0	99%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.95	8.95		10	0	0	1	1	0	90%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	8.64	8.64		10.6	0	0	1	1	0	82%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	8.36	8.36		10	0	0	1	1	0	84%	70	130	0%	
1,2-Dibromoethane	A	ppbv	7.37	7.37		10	0	0	1	1	0	74%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	8.54	8.54		10	0	0	1	1	0	85%	70	130	0%	
1,2-Dichloroethane	A	ppbv	9.21	9.21		10	0	0	1	1	0	92%	70	130	0%	
1,2-Dichloropropane	A	ppbv	8.74	8.74		10	0	0	1	1	0	87%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	8.13	8.13		10	0	0	1	1	0	81%	70	130	0%	
1,3-Butadiene	A	ppbv	9.84	9.84		10	0	0	1	1	0	98%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	8.51	8.51		10	0	0	1	1	0	85%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752014	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\1\DATA\040111\4/1/2011 11:53:0		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	8.57	8.57		10.2	0	0	1	1	0	84%	70	130	0%	
1,4-Dioxane	A	ppbv	8.8	8.8		10	0	0	1	1	0	88%	70	130	0%	
2-Butanone	A	ppbv	9.64	9.64		10.2	0	0	1	1	0	95%	70	130	0%	
2-Hexanone	A	ppbv	14.76	14.76		10	0	0	1	1	0	148%	70	130	0%	S
2-Propanol	A	ppbv	10.55	10.55		10	0	0	1	1	0	106%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	11.13	11.13		10.6	0	0	1	1	0	105%	70	130	0%	
Acetone	A	ppbv	8.82	8.82		10	0	0	1	1	0	88%	70	130	0%	
Benzene	A	ppbv	8.88	8.88		10	0	0	1	1	0	89%	70	130	0%	
Benzyl chloride	A	ppbv	2.82	2.82		5.4	0	0	1	1	0	52%	70	130	0%	S
Bromodichloromethane	A	ppbv	9.14	9.14		10.2	0	0	1	1	0	90%	70	130	0%	
Bromoform	A	ppbv	8.4	8.4		9.8	0	0	1	1	0	86%	70	130	0%	
Bromomethane	A	ppbv	5.35	5.35		10	0	0	1	1	0	54%	70	130	0%	S
Carbon disulfide	A	ppbv	8.94	8.94		10	0	0	1	1	0	89%	70	130	0%	
Carbon tetrachloride	A	ppbv	9.57	9.57		10	0	0	1	1	0	96%	70	130	0%	
Chlorobenzene	A	ppbv	8.14	8.14		10	0	0	1	1	0	81%	70	130	0%	
Chlorodibromomethane	A	ppbv	9	9		10	0	0	1	1	0	90%	70	130	0%	
Chloroethane	A	ppbv	7.65	7.65		10	0	0	1	1	0	77%	70	130	0%	
Chloroform	A	ppbv	9.34	9.34		10.2	0	0	1	1	0	92%	70	130	0%	
Chloromethane	A	ppbv	12	12		10.2	0	0	1	1	0	118%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	9.68	9.68		10	0	0	1	1	0	97%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	8.47	8.47		10.6	0	0	1	1	0	80%	70	130	0%	
Cyclohexane	A	ppbv	9.55	9.55		10.2	0	0	1	1	0	94%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	9.18	9.18		10	0	0	1	1	0	92%	70	130	0%	
Ethanol	A	ppbv	10.23	10.23		12.2	0	0	1	1	0	84%	70	130	0%	
Ethyl acetate	A	ppbv	9.68	9.68		10	0	0	1	1	0	97%	70	130	0%	
Ethylbenzene	A	ppbv	8.65	8.65		10	0	0	1	1	0	87%	70	130	0%	
Heptane	A	ppbv	9.12	9.12		10	0	0	1	1	0	91%	70	130	0%	
Hexachlorobutadiene	A	ppbv	6.71	6.71		9.8	0	0	1	1	0	68%	70	130	0%	S
m,p-Xylene	A	ppbv	16.28	16.28		20	0	0	2	2	0	81%	70	130	0%	
Methylene chloride	A	ppbv	9.29	9.29		9.8	0	0	1	1	0	95%	70	130	0%	
n-Hexane	A	ppbv	9.12	9.12		10.2	0	0	1	1	0	89%	70	130	0%	
Naphthalene	A	ppbv	9.02	9.02		10	0	0	1	1	0	90%	70	130	0%	
o-Xylene	A	ppbv	8.72	8.72		10	0	0	1	1	0	87%	70	130	0%	
p-Ethyltoluene	A	ppbv	8.01	8.01		10.6	0	0	1	1	0	76%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752014	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\1\DATA\040111	4/1/2011 11:53:0	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	10.6	10.6		10	0	0	1	1	0	106%	70	130	0%	
Styrene	A	ppbv	9.14	9.14		10	0	0	1	1	0	91%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	8.53	8.53		10	0	0	1	1	0	85%	70	130	0%	
Tetrachloroethene	A	ppbv	9.08	9.08		10	0	0	1	1	0	91%	70	130	0%	
Tetrahydrofuran	A	ppbv	10.32	10.32		10	0	0	1	1	0	103%	70	130	0%	
Toluene	A	ppbv	8.97	8.97		10	0	0	1	1	0	90%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	9.61	9.61		10	0	0	1	1	0	96%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	7.86	7.86		9.4	0	0	1	1	0	84%	70	130	0%	
Trichloroethene	A	ppbv	15.01	15.01		13.6	0	0	1	1	0	110%	70	130	0%	
Trichlorofluoromethane	A	ppbv	9.39	9.39		10	0	0	1	1	0	94%	70	130	0%	
Vinyl acetate	A	ppbv	7.7	7.7		10	0	0	1	1	0	77%	70	130	0%	
Vinyl chloride	A	ppbv	9.43	9.43		10	0	0	1	1	0	94%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	50.90448	50.90448		54.56	0	0	5.456	5.456	0	93%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	10.36615	10.36615		28.62705	0	0	6.865	6.865	0	36%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	73.80432	73.80432		75.1072	0	0	7.664	7.664	0	98%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	46.15776	46.15776		54.56	0	0	5.456	5.456	0	85%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	40.10577	40.10577		40.47	0	0	4.047	4.047	0	99%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	35.48675	35.48675		39.65	0	0	3.965	3.965	0	90%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	64.11744	64.11744		78.6626	0	0	7.421	7.421	0	82%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	41.09776	41.09776		49.16	0	0	4.916	4.916	0	84%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	56.66056	56.66056		76.88	0	0	7.688	7.688	0	74%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	51.34248	51.34248		60.12	0	0	6.012	6.012	0	85%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	37.27287	37.27287		40.47	0	0	4.047	4.047	0	92%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	40.38754	40.38754		46.21	0	0	4.621	4.621	0	87%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	39.96708	39.96708		49.16	0	0	4.916	4.916	0	81%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	21.76608	21.76608		22.12	0	0	2.212	2.212	0	98%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	51.16212	51.16212		60.12	0	0	6.012	6.012	0	85%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	51.52284	51.52284		61.3224	0	0	6.012	6.012	0	84%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	31.7152	31.7152		36.04	0	0	3.604	3.604	0	88%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	28.42836	28.42836		30.0798	0	0	2.949	2.949	0	95%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	60.47172	60.47172		40.97	0	0	4.097	4.097	0	148%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	25.9319	25.9319		24.58	0	0	2.458	2.458	0	106%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	45.61074	45.61074		43.4388	0	0	4.098	4.098	0	105%	70	130	0%	
Acetone-ug/m3	C	µg/m³	20.9475	20.9475		23.75	0	0	2.375	2.375	0	88%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752014	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040111\4/1/2011 11:53:0		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	28.3716	28.3716		31.95	0	0	3.195	3.195	0	89%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	14.59914	14.59914		27.9558	0	0	5.177	5.177	0	52%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	61.22886	61.22886		68.3298	0	0	6.699	6.699	0	90%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	86.8308	86.8308		101.3026	0	0	10.337	10.337	0	86%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	20.77405	20.77405		38.83	0	0	3.883	3.883	0	54%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	27.83916	27.83916		31.14	0	0	3.114	3.114	0	89%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	60.20487	60.20487		62.91	0	0	6.291	6.291	0	96%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	37.47656	37.47656		46.04	0	0	4.604	4.604	0	81%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	76.671	76.671		85.19	0	0	8.519	8.519	0	90%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	20.1807	20.1807		26.38	0	0	2.638	2.638	0	77%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	45.60722	45.60722		49.8066	0	0	4.883	4.883	0	92%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	24.78	24.78		21.063	0	0	2.065	2.065	0	118%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	38.3812	38.3812		39.65	0	0	3.965	3.965	0	97%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	38.44533	38.44533		48.1134	0	0	4.539	4.539	0	80%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	32.8711	32.8711		35.1084	0	0	3.442	3.442	0	94%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	45.3951	45.3951		49.45	0	0	4.945	4.945	0	92%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	19.27332	19.27332		22.9848	0	0	1.884	1.884	0	84%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	34.87704	34.87704		36.03	0	0	3.603	3.603	0	97%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	37.5583	37.5583		43.42	0	0	4.342	4.342	0	87%	70	130	0%	
Heptane-ug/m3	C	µg/m³	37.38288	37.38288		40.99	0	0	4.099	4.099	0	91%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	71.56215	71.56215		104.517	0	0	10.665	10.665	0	68%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	141.37552	141.37552		173.68	0	0	17.368	17.368	0	81%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	32.27346	32.27346		34.0452	0	0	3.474	3.474	0	95%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	32.148	32.148		35.955	0	0	3.525	3.525	0	89%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	47.28284	47.28284		52.42	0	0	5.242	5.242	0	90%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	37.86224	37.86224		43.42	0	0	4.342	4.342	0	87%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	39.37716	39.37716		52.1096	0	0	4.916	4.916	0	76%	70	130	0%	
Propylene-ug/m3	C	µg/m³	18.2426	18.2426		17.21	0	0	1.721	1.721	0	106%	70	130	0%	
Styrene-ug/m3	C	µg/m³	38.9364	38.9364		42.6	0	0	4.26	4.26	0	91%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	30.75065	30.75065		36.05	0	0	3.605	3.605	0	85%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	61.58056	61.58056		67.82	0	0	6.782	6.782	0	91%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	30.43368	30.43368		29.49	0	0	2.949	2.949	0	103%	70	130	0%	
Toluene-ug/m3	C	µg/m³	33.80793	33.80793		37.69	0	0	3.769	3.769	0	90%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	38.10365	38.10365		39.65	0	0	3.965	3.965	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752014	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040111\4/1/2011 11:53:0		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	35.67654	35.67654		42.6666	0	0	4.539	4.539	0	84%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	80.66374	80.66374		73.0864	0	0	5.374	5.374	0	110%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	52.75302	52.75302		56.18	0	0	5.618	5.618	0	94%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	27.1117	27.1117		35.21	0	0	3.521	3.521	0	77%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	24.10308	24.10308		25.56	0	0	2.556	2.556	0	94%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.93	11.93		12.5	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752015	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111\4/1/2011 2:22:00		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.13	1.13		0.96	0	0	1	1	0	118%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.17	1.17		1	0	0	1	1	0	117%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.08	1.08		0.98	0	0	1	1	0	110%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1.22	1.22		0.98	0	0	1	1	0	124%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.13	1.13		0.97	0	0	1	1	0	116%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.12	1.12		0.99	0	0	1	1	0	113%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.98	0.98		0.91	0	0	1	1	0	108%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.33	1.33		0.98	0	0	1	1	0	136%	70	130	0%	S
1,2-Dibromoethane	A	ppbv	1.23	1.23		0.96	0	0	1	1	0	128%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.3	1.3		0.97	0	0	1	1	0	134%	70	130	0%	S
1,2-Dichloroethane	A	ppbv	1.28	1.28		0.97	0	0	1	1	0	132%	70	130	0%	S
1,2-Dichloropropane	A	ppbv	1.22	1.22		0.98	0	0	1	1	0	124%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.31	1.31		0.97	0	0	1	1	0	135%	70	130	0%	S
1,3-Butadiene	A	ppbv	1.17	1.17		0.98	0	0	1	1	0	119%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	1.33	1.33		0.97	0	0	1	1	0	137%	70	130	0%	S
1,4-Dichlorobenzene	A	ppbv	1.32	1.32		0.96	0	0	1	1	0	138%	70	130	0%	S
1,4-Dioxane	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
2-Butanone	A	ppbv	1.27	1.27		0.99	0	0	1	1	0	128%	70	130	0%	
2-Hexanone	A	ppbv	0.71	0.71		0.98	0	0	1	1	0	72%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752015	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111\4/1/2011 2:22:00		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	0.85	0.85		1.01	0	0	1	1	0	84%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.9	0.9		1	0	0	1	1	0	90%	70	130	0%	
Acetone	A	ppbv	1.22	1.22		1	0	0	1	1	0	122%	70	130	0%	
Benzene	A	ppbv	1.19	1.19		0.96	0	0	1	1	0	124%	70	130	0%	
Benzyl chloride	A	ppbv	1.6	1.6		0.97	0	0	1	1	0	165%	70	130	0%	S
Bromodichloromethane	A	ppbv	1.16	1.16		0.96	0	0	1	1	0	121%	70	130	0%	
Bromoform	A	ppbv	1.23	1.23		0.96	0	0	1	1	0	128%	70	130	0%	
Bromomethane	A	ppbv	1.02	1.02		0.93	0	0	1	1	0	110%	70	130	0%	
Carbon disulfide	A	ppbv	1.07	1.07		0.97	0	0	1	1	0	110%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.12	1.12		0.95	0	0	1	1	0	118%	70	130	0%	
Chlorobenzene	A	ppbv	1.2	1.2		0.99	0	0	1	1	0	121%	70	130	0%	
Chlorodibromomethane	A	ppbv	1.19	1.19		0.98	0	0	1	1	0	121%	70	130	0%	
Chloroethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Chloroform	A	ppbv	1.16	1.16		0.98	0	0	1	1	0	118%	70	130	0%	
Chloromethane	A	ppbv	1.07	1.07		0.95	0	0	1	1	0	113%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	1.1	1.1		0.98	0	0	1	1	0	112%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	1.18	1.18		0.95	0	0	1	1	0	124%	70	130	0%	
Cyclohexane	A	ppbv	1.11	1.11		0.98	0	0	1	1	0	113%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	1.04	1.04		0.92	0	0	1	1	0	113%	70	130	0%	
Ethanol	A	ppbv	0.81	0.81		0.92	0	0	1	1	0	88%	70	130	0%	
Ethyl acetate	A	ppbv	1.19	1.19		0.98	0	0	1	1	0	121%	70	130	0%	
Ethylbenzene	A	ppbv	1.22	1.22		0.98	0	0	1	1	0	124%	70	130	0%	
Heptane	A	ppbv	1.17	1.17		0.99	0	0	1	1	0	118%	70	130	0%	
Hexachlorobutadiene	A	ppbv	1.13	1.13		0.94	0	0	1	1	0	120%	70	130	0%	
m,p-Xylene	A	ppbv	2.44	2.44		1.92	0	0	2	2	0	127%	70	130	0%	
Methylene chloride	A	ppbv	1.18	1.18		1	0	0	1	1	0	118%	70	130	0%	
n-Hexane	A	ppbv	1.15	1.15		1.01	0	0	1	1	0	114%	70	130	0%	
Naphthalene	A	ppbv	0.99	0.99		0.92	0	0	1	1	0	108%	70	130	0%	
o-Xylene	A	ppbv	1.24	1.24		1	0	0	1	1	0	124%	70	130	0%	
p-Ethyltoluene	A	ppbv	1.3	1.3		0.98	0	0	1	1	0	133%	70	130	0%	S
Propylene	A	ppbv	1.16	1.16		1.02	0	0	1	1	0	114%	70	130	0%	
Styrene	A	ppbv	1.26	1.26		0.98	0	0	1	1	0	129%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.29	1.29		0.99	0	0	1	1	0	130%	70	130	0%	S
Tetrachloroethene	A	ppbv	1.17	1.17		0.96	0	0	1	1	0	122%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752015	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\1\DATA\040111	4/1/2011 2:22:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	1.08	1.08		1	0	0	1	1	0	108%	70	130	0%	
Toluene	A	ppbv	1.24	1.24		0.98	0	0	1	1	0	127%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	1.12	1.12		0.98	0	0	1	1	0	114%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	1.13	1.13		0.91	0	0	1	1	0	124%	70	130	0%	
Trichloroethene	A	ppbv	1.09	1.09		0.96	0	0	1	1	0	114%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.08	1.08		0.96	0	0	1	1	0	113%	70	130	0%	
Vinyl acetate	A	ppbv	1.34	1.34		0.99	0	0	1	1	0	135%	70	130	0%	S
Vinyl chloride	A	ppbv	1.06	1.06		0.94	0	0	1	1	0	113%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	6.16528	6.16528		5.23776	0	0	5.456	5.456	0	118%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	8.03205	8.03205		6.865	0	0	6.865	6.865	0	117%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	8.27712	8.27712		7.51072	0	0	7.664	7.664	0	110%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	6.65632	6.65632		5.34688	0	0	5.456	5.456	0	124%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	4.57311	4.57311		3.92559	0	0	4.047	4.047	0	116%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.4408	4.4408		3.92535	0	0	3.965	3.965	0	113%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	7.27258	7.27258		6.75311	0	0	7.421	7.421	0	108%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	6.53828	6.53828		4.81768	0	0	4.916	4.916	0	136%	70	130	0%	S
1,2-Dibromoethane-ug/m3	C	µg/m³	9.45624	9.45624		7.38048	0	0	7.688	7.688	0	128%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	7.8156	7.8156		5.83164	0	0	6.012	6.012	0	134%	70	130	0%	S
1,2-Dichloroethane-ug/m3	C	µg/m³	5.18016	5.18016		3.92559	0	0	4.047	4.047	0	132%	70	130	0%	S
1,2-Dichloropropane-ug/m3	C	µg/m³	5.63762	5.63762		4.52858	0	0	4.621	4.621	0	124%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	6.43996	6.43996		4.76852	0	0	4.916	4.916	0	135%	70	130	0%	S
1,3-Butadiene-ug/m3	C	µg/m³	2.58804	2.58804		2.16776	0	0	2.212	2.212	0	119%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	7.99596	7.99596		5.83164	0	0	6.012	6.012	0	137%	70	130	0%	S
1,4-Dichlorobenzene-ug/m3	C	µg/m³	7.93584	7.93584		5.77152	0	0	6.012	6.012	0	138%	70	130	0%	S
1,4-Dioxane-ug/m3	C	µg/m³	3.604	3.604		3.45984	0	0	3.604	3.604	0	104%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	3.74523	3.74523		2.91951	0	0	2.949	2.949	0	128%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.90887	2.90887		4.01506	0	0	4.097	4.097	0	72%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	2.0893	2.0893		2.48258	0	0	2.458	2.458	0	84%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	3.6882	3.6882		4.098	0	0	4.098	4.098	0	90%	70	130	0%	
Acetone-ug/m3	C	µg/m³	2.8975	2.8975		2.375	0	0	2.375	2.375	0	122%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.80205	3.80205		3.0672	0	0	3.195	3.195	0	124%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	8.2832	8.2832		5.02169	0	0	5.177	5.177	0	165%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	7.77084	7.77084		6.43104	0	0	6.699	6.699	0	121%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	12.71451	12.71451		9.92352	0	0	10.337	10.337	0	128%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752015	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040111\4/1/2011 2:22:00		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	3.96066	3.96066		3.61119	0	0	3.883	3.883	0	110%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.33198	3.33198		3.02058	0	0	3.114	3.114	0	110%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	7.04592	7.04592		5.97645	0	0	6.291	6.291	0	118%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	5.5248	5.5248		4.55796	0	0	4.604	4.604	0	121%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	10.13761	10.13761		8.34862	0	0	8.519	8.519	0	121%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.638	2.638		2.42696	0	0	2.638	2.638	0	109%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	5.66428	5.66428		4.78534	0	0	4.883	4.883	0	118%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.20955	2.20955		1.96175	0	0	2.065	2.065	0	113%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	4.3615	4.3615		3.8857	0	0	3.965	3.965	0	112%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	5.35602	5.35602		4.31205	0	0	4.539	4.539	0	124%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.82062	3.82062		3.37316	0	0	3.442	3.442	0	113%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	5.1428	5.1428		4.5494	0	0	4.945	4.945	0	113%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.52604	1.52604		1.73328	0	0	1.884	1.884	0	88%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	4.28757	4.28757		3.53094	0	0	3.603	3.603	0	121%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	5.29724	5.29724		4.25516	0	0	4.342	4.342	0	124%	70	130	0%	
Heptane-ug/m3	C	µg/m³	4.79583	4.79583		4.05801	0	0	4.099	4.099	0	118%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	12.05145	12.05145		10.0251	0	0	10.665	10.665	0	120%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	21.18896	21.18896		16.67328	0	0	17.368	17.368	0	127%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	4.09932	4.09932		3.474	0	0	3.474	3.474	0	118%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	4.05375	4.05375		3.56025	0	0	3.525	3.525	0	114%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	5.18958	5.18958		4.82264	0	0	5.242	5.242	0	108%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	5.38408	5.38408		4.342	0	0	4.342	4.342	0	124%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	6.3908	6.3908		4.81768	0	0	4.916	4.916	0	133%	70	130	0%	S
Propylene-ug/m3	C	µg/m³	1.99636	1.99636		1.75542	0	0	1.721	1.721	0	114%	70	130	0%	
Styrene-ug/m3	C	µg/m³	5.3676	5.3676		4.1748	0	0	4.26	4.26	0	129%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	4.65045	4.65045		3.56895	0	0	3.605	3.605	0	130%	70	130	0%	S
Tetrachloroethene-ug/m3	C	µg/m³	7.93494	7.93494		6.51072	0	0	6.782	6.782	0	122%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	3.18492	3.18492		2.949	0	0	2.949	2.949	0	108%	70	130	0%	
Toluene-ug/m3	C	µg/m³	4.67356	4.67356		3.69362	0	0	3.769	3.769	0	127%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.4408	4.4408		3.8857	0	0	3.965	3.965	0	114%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	5.12907	5.12907		4.13049	0	0	4.539	4.539	0	124%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.85766	5.85766		5.15904	0	0	5.374	5.374	0	114%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	6.06744	6.06744		5.39328	0	0	5.618	5.618	0	113%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	4.71814	4.71814		3.48579	0	0	3.521	3.521	0	135%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752015	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111	4/1/2011 2:22:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	2.70936	2.70936		2.40264	0	0	2.556	2.556	0	113%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.8	11.8		12.5	0	0	0	0	0	94%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752016	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040111	4/1/2011 3:05:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752016	MBLK	EPA_TO15-UG/	MBLK	\\DATA\040111	4/1/2011 3:05:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752016	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040111	4/1/2011 3:05:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752016	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040111\4/1/2011 3:05:00		1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.48	11.48		12.5	0	0	0	0	0	92%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752017	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\4/1/2011 3:47:00		10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.26	12.6		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Butanone	A	ppbv	0.64	0		0	0	0	10	10	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Propanol	A	ppbv	10.6	106		0	0	0	10	10	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Acetone	A	ppbv	13.91	139.1		0	0	0	10	10	0	0%	0	0	0%	
Benzene	A	ppbv	14.9	149		0	0	0	10	10	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0.89	0		0	0	0	10	10	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752017	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 3:47:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Cyclohexane	A	ppbv	24.01	240.1		0	0	0	10	10	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethanol	A	ppbv	1.09	10.9		0	0	0	10	10	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Heptane	A	ppbv	6.92	69.2		0	0	0	10	10	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.49	0		0	0	0	20	20	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
n-Hexane	A	ppbv	21.03	210.3		0	0	0	10	10	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.14	11.4		0	0	0	10	10	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Toluene	A	ppbv	9.82	98.2		0	0	0	10	10	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	68.65	68.65	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	9.65664	96.5664		0	0	0	76.64	76.64	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752017	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111\4/1/2011 3:47:00		10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	74.21	74.21	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	76.88	76.88	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	46.21	46.21	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	22.12	22.12	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	36.04	36.04	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	1.88736	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	40.97	40.97	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	26.0548	260.548		0	0	0	24.58	24.58	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	40.98	40.98	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	33.03625	330.3625		0	0	0	23.75	23.75	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	47.6055	476.055		0	0	0	31.95	31.95	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51.77	51.77	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	5.96211	0		0	0	0	66.99	66.99	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	103.37	103.37	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	38.83	38.83	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	31.14	31.14	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	62.91	62.91	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	46.04	46.04	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	85.19	85.19	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	26.38	26.38	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	48.83	48.83	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	20.65	20.65	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	82.64242	826.4242		0	0	0	34.42	34.42	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	49.45	49.45	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752017	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 3:47:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	2.05356	20.5356		0	0	0	18.84	18.84	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	36.03	36.03	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	28.36508	283.6508		0	0	0	40.99	40.99	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	106.65	106.65	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	12.93916	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	34.74	34.74	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	74.13075	741.3075		0	0	0	35.25	35.25	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	52.42	52.42	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.94988	49.4988		0	0	0	43.42	43.42	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	17.21	17.21	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	42.6	42.6	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	36.05	36.05	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	67.82	67.82	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	37.01158	370.1158		0	0	0	37.69	37.69	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	53.74	53.74	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	56.18	56.18	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	35.21	35.21	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	25.56	25.56	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.25	122.5		125	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752018	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\	4/1/2011 4:32:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	3.04	30.4		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.65	16.5		0	0	0	10	10	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Propanol	A	ppbv	1.55	15.5		0	0	0	10	10	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Acetone	A	ppbv	3.73	37.3		0	0	0	10	10	0	0%	0	0	0%	
Benzene	A	ppbv	28.81	288.1		0	0	0	10	10	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752018	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 4:32:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Cyclohexane	A	ppbv	64.98	649.8		0	0	0	10	10	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethanol	A	ppbv	0.55	0		0	0	0	10	10	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	5.61	56.1		0	0	0	10	10	0	0%	0	0	0%	
Heptane	A	ppbv	49.49	494.9		0	0	0	10	10	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	17.52	175.2		0	0	0	20	20	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
n-Hexane	A	ppbv	72.46	724.6		0	0	0	10	10	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
o-Xylene	A	ppbv	6.57	65.7		0	0	0	10	10	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	1.94	19.4		0	0	0	10	10	0	0%	0	0	0%	
Propylene	A	ppbv	0.53	0		0	0	0	10	10	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Toluene	A	ppbv	37.52	375.2		0	0	0	10	10	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	68.65	68.65	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	76.64	76.64	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752018	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 4:32:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	74.21	74.21	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	14.94464	149.4464		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	76.88	76.88	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	46.21	46.21	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	8.1114	81.114		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	22.12	22.12	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	36.04	36.04	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	40.97	40.97	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	3.8099	38.099		0	0	0	24.58	24.58	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	40.98	40.98	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	8.85875	88.5875		0	0	0	23.75	23.75	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	92.04795	920.4795		0	0	0	31.95	31.95	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51.77	51.77	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	66.99	66.99	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	103.37	103.37	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	38.83	38.83	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	31.14	31.14	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	62.91	62.91	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	46.04	46.04	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	85.19	85.19	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	26.38	26.38	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	48.83	48.83	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	20.65	20.65	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	223.66116	2236.6116		0	0	0	34.42	34.42	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	49.45	49.45	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752018	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040111	4/1/2011 4:32:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.0362	0		0	0	0	18.84	18.84	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	36.03	36.03	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	24.35862	243.5862		0	0	0	43.42	43.42	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	202.85951	2028.5951		0	0	0	40.99	40.99	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	106.65	106.65	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	152.14368	1521.4368		0	0	0	173.68	173.68	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	34.74	34.74	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	255.4215	2554.215		0	0	0	35.25	35.25	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	52.42	52.42	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	28.52694	285.2694		0	0	0	43.42	43.42	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	9.53704	95.3704		0	0	0	49.16	49.16	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0.91213	0		0	0	0	17.21	17.21	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	42.6	42.6	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	36.05	36.05	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	67.82	67.82	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	141.41288	1414.1288		0	0	0	37.69	37.69	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	53.74	53.74	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	56.18	56.18	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	35.21	35.21	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	25.56	25.56	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	14.66	146.6		125	0	0	0	0	0	117%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752019	1103389-013B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 5:14:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.27	12.7		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Acetone	A	ppbv	9.3	93		0	0	0	10	10	0	0%	0	0	0%	
Benzene	A	ppbv	0.53	0		0	0	0	10	10	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752019	1103389-013B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 5:14:00		10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Cyclohexane	A	ppbv	1.01	10.1		0	0	0	10	10	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethanol	A	ppbv	0.53	0		0	0	0	10	10	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Toluene	A	ppbv	1.53	15.3		0	0	0	10	10	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	68.65	68.65	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	9.73328	97.3328		0	0	0	76.64	76.64	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752019	1103389-013B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/1/2011 5:14:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	74.21	74.21	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	76.88	76.88	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	46.21	46.21	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	22.12	22.12	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	36.04	36.04	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	40.97	40.97	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	24.58	24.58	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	40.98	40.98	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	22.0875	220.875		0	0	0	23.75	23.75	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	1.69335	0		0	0	0	31.95	31.95	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51.77	51.77	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	66.99	66.99	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	103.37	103.37	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	38.83	38.83	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	31.14	31.14	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	62.91	62.91	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	46.04	46.04	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	85.19	85.19	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	26.38	26.38	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	48.83	48.83	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	20.65	20.65	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	3.47642	34.7642		0	0	0	34.42	34.42	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	49.45	49.45	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752019	1103389-013B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 5:14:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0.99852	0		0	0	0	18.84	18.84	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	36.03	36.03	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	40.99	40.99	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	106.65	106.65	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	34.74	34.74	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	35.25	35.25	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	52.42	52.42	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	17.21	17.21	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	42.6	42.6	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	36.05	36.05	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	67.82	67.82	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	5.76657	57.6657		0	0	0	37.69	37.69	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	53.74	53.74	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	56.18	56.18	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	35.21	35.21	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	25.56	25.56	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.12	121.2		125	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752020	1103389-013BDUP	EPA_TO15-UG/	DUP	\I\DATA\040111	4/1/2011 5:57:00	10	R39600		0	752019	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752020	1103389-013BDUP	EPA_TO15-UG/	DUP	\\DATA\040111	4/1/2011 5:57:00	10	R39600		0	752019	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.3	13		0	0	12.7	10	10	0	0%	0	0	2%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Propanol	A	ppbv	1.6	16		0	0	0	10	10	0	0%	0	0	200%	R
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Acetone	A	ppbv	9.07	90.7		0	0	93	10	10	0	0%	0	0	3%	
Benzene	A	ppbv	0.56	0		0	0	0	10	10	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752020	1103389-013BDUP	EPA_TO15-UG/	DUP	\I\DATA\040111\4/1/2011 5:57:00		10	R39600		0	752019	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Cyclohexane	A	ppbv	1.11	11.1		0	0	10.1	10	10	0	0%	0	0	9%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Heptane	A	ppbv	0.57	0		0	0	0	10	10	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Toluene	A	ppbv	1.55	15.5		0	0	15.3	10	10	0	0%	0	0	1%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	68.65	68.65	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	9.9632	99.632		0	0	97.3328	76.64	76.64	0	0%	0	0	2%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	74.21	74.21	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752020	1103389-013BDUP	EPA_TO15-UG/	DUP	\\I\DATA\040111	4/1/2011 5:57:00	10	R39600		0	752019	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	76.88	76.88	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	46.21	46.21	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	22.12	22.12	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	36.04	36.04	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	40.97	40.97	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	3.9328	39.328		0	0	0	24.58	24.58	0	0%	0	0	200%	R
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	40.98	40.98	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	21.54125	215.4125		0	0	220.875	23.75	23.75	0	0%	0	0	3%	
Benzene-ug/m3	C	µg/m³	1.7892	0		0	0	0	31.95	31.95	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51.77	51.77	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	66.99	66.99	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	103.37	103.37	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	38.83	38.83	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	31.14	31.14	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	62.91	62.91	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	46.04	46.04	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	85.19	85.19	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	26.38	26.38	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	48.83	48.83	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	20.65	20.65	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	3.82062	38.2062		0	0	34.7642	34.42	34.42	0	0%	0	0	9%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	49.45	49.45	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	18.84	18.84	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	36.03	36.03	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752020	1103389-013BDUP	EPA_TO15-UG/	DUP	\1\DATA\040111\4/1/2011 5:57:00		10	R39600		0	752019	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	2.33643	0		0	0	0	40.99	40.99	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	106.65	106.65	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	34.74	34.74	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	35.25	35.25	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	52.42	52.42	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	17.21	17.21	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	42.6	42.6	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	36.05	36.05	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	67.82	67.82	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	5.84195	58.4195		0	0	57.6657	37.69	37.69	0	0%	0	0	1%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	53.74	53.74	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	56.18	56.18	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	35.21	35.21	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	25.56	25.56	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	125		125	0	125	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	125		125	0	125	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	125		125	0	125	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.26	122.6		125	0	121.2	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752021	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 6:40:00		400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752021	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 6:40:00	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.99	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.57	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Acetone	A	ppbv	2.37	948		0	0	0	400	400	0	0%	0	0	0%	
Benzene	A	ppbv	39.76	15904		0	0	0	400	400	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752021	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/1/2011 6:40:00	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane	A	ppbv	38.42	15368		0	0	0	400	400	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethanol	A	ppbv	0.9	0		0	0	0	400	400	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.94	0		0	0	0	400	400	0	0%	0	0	0%	
Heptane	A	ppbv	11.25	4500		0	0	0	400	400	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.71	1484		0	0	0	800	800	0	0%	0	0	0%	
Methylene chloride	A	ppbv	6.69	2676		0	0	0	400	400	0	0%	0	0	0%	
n-Hexane	A	ppbv	40.88	16352		0	0	0	400	400	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.63	652		0	0	0	400	400	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0.57	0		0	0	0	400	400	0	0%	0	0	0%	
Propylene	A	ppbv	4.3	1720		0	0	0	400	400	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Toluene	A	ppbv	9.02	3608		0	0	0	400	400	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2746	2746	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	3065.6	3065.6	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2968.4	2968.4	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.86684	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752021	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\4/1/2011 6:40:00		400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	3075.2	3075.2	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	1848.4	1848.4	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	2.80212	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	884.8	884.8	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	1441.6	1441.6	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	1638.8	1638.8	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	1639.2	1639.2	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	5.62875	2251.5		0	0	0	950	950	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	127.0332	50813.28		0	0	0	1278	1278	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2070.8	2070.8	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2679.6	2679.6	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	4134.8	4134.8	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1553.2	1553.2	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	1245.6	1245.6	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	2516.4	2516.4	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1841.6	1841.6	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3407.6	3407.6	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1055.2	1055.2	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	1953.2	1953.2	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	826	826	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	132.24164	52896.656		0	0	0	1376.8	1376.8	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	1978	1978	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	1.6956	0		0	0	0	753.6	753.6	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1441.2	1441.2	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.08148	0		0	0	0	1736.8	1736.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752021	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 6:40:00	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	46.11375	18445.5		0	0	0	1639.6	1639.6	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	4266	4266	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	32.21764	12887.056		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	23.24106	9296.424		0	0	0	1389.6	1389.6	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	144.102	57640.8		0	0	0	1410	1410	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	2096.8	2096.8	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	7.07746	2830.984		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	2.80212	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	7.4003	2960.12		0	0	0	688.4	688.4	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	1704	1704	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	1442	1442	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2712.8	2712.8	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	33.99638	13598.552		0	0	0	1507.6	1507.6	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2149.6	2149.6	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	2247.2	2247.2	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1408.4	1408.4	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	1022.4	1022.4	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.63	5052		5000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752022	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 7:23:00	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752022	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111\4/1/2011 7:23:00		400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.47	588		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.73	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.8	720		0	0	0	400	400	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Acetone	A	ppbv	6.74	2696		0	0	0	400	400	0	0%	0	0	0%	
Benzene	A	ppbv	24.69	9876		0	0	0	400	400	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752022	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 7:23:00	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Cyclohexane	A	ppbv	33.39	13356		0	0	0	400	400	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethanol	A	ppbv	1.84	736		0	0	0	400	400	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	4.85	1940		0	0	0	400	400	0	0%	0	0	0%	
Heptane	A	ppbv	28.93	11572		0	0	0	400	400	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	14.4	5760		0	0	0	800	800	0	0%	0	0	0%	
Methylene chloride	A	ppbv	15.6	6240		0	0	0	400	400	0	0%	0	0	0%	
n-Hexane	A	ppbv	27.3	10920		0	0	0	400	400	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
o-Xylene	A	ppbv	4.22	1688		0	0	0	400	400	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	1.2	480		0	0	0	400	400	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Toluene	A	ppbv	49.64	19856		0	0	0	400	400	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2746	2746	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	3065.6	3065.6	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2968.4	2968.4	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752022	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 7:23:00		400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	7.22652	2890.608		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	3075.2	3075.2	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	1848.4	1848.4	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	3.58868	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	884.8	884.8	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	1441.6	1441.6	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	5.3082	2123.28		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	1638.8	1638.8	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	1639.2	1639.2	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	16.0075	6403		0	0	0	950	950	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	78.88455	31553.82		0	0	0	1278	1278	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2070.8	2070.8	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2679.6	2679.6	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	4134.8	4134.8	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1553.2	1553.2	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	1245.6	1245.6	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	2516.4	2516.4	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1841.6	1841.6	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3407.6	3407.6	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1055.2	1055.2	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	1953.2	1953.2	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	826	826	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	114.92838	45971.352		0	0	0	1376.8	1376.8	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	1978	1978	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	3.46656	1386.624		0	0	0	753.6	753.6	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1441.2	1441.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752022	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 7:23:00	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethyl benzene-ug/m3	C	µg/m³	21.0587	8423.48		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	118.58407	47433.628		0	0	0	1639.6	1639.6	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	4266	4266	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	125.0496	50019.84		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	54.1944	21677.76		0	0	0	1389.6	1389.6	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	96.2325	38493		0	0	0	1410	1410	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	2096.8	2096.8	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	18.32324	7329.296		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	5.8992	2359.68		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	688.4	688.4	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	1704	1704	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	1442	1442	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2712.8	2712.8	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	187.09316	74837.264		0	0	0	1507.6	1507.6	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2149.6	2149.6	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	2247.2	2247.2	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1408.4	1408.4	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	1022.4	1022.4	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.93	5172		5000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752023	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 8:05:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752023	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 8:05:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	1.65	13200		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	8.3	66400		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752023	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111	4/1/2011 8:05:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	25.58	204640		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	9.97	79760		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.7	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.61	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	23.08	184640		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	10.92	87360		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752023	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 8:05:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	6.7617	54093.6		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	26.5185	212148		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	88.04636	704370.88		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752023	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040111	4/1/2011 8:05:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	40.86703	326936.24		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	6.0788	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.11914	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	81.357	650856		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	41.15748	329259.84		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.9	95200		100000	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752024	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/1/2011 8:45:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	11.51	92080		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752024	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040111\4/1/2011 8:45:00		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	23.28	186240		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	9.99	79920		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.16	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.91	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	24.31	194480		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0.64	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	14.41	115280		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752024	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040111\4/1/2011 8:45:00		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	36.77445	294195.6		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	80.12976	641038.08		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752024	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040111	4/1/2011 8:45:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	40.94901	327592.08		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	10.07344	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.16134	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	85.69275	685542		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.10144	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	54.31129	434490.32		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.99	95920		100000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752025	1103389-008B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\	4/1/2011 9:26:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	2.91	23280		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752025	1103389-008B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111\4/1/2011 9:26:00		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	3.17	25360		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	0.85	0		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.63	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.09	16720		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752025	1103389-008B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111	4/1/2011 9:26:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	9.29745	74379.6		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	10.91114	87289.12		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752025	1103389-008B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111	4/1/2011 9:26:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	3.48415	0		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.18862	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	7.36725	58938		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.96	95680		100000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752026	1103389-009B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\4/1/2011 10:07:0		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	3.71	29680		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752026	1103389-009B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111\4/1/2011 10:07:0		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	3.7	29600		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	1.19	9520		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.38	19040		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	0.53	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752026	1103389-009B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 10:07:0		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	11.85345	94827.6		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	12.7354	101883.2		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752026	1103389-009B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 10:07:0		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	4.87781	39022.48		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	8.3895	67116		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	1.99757	0		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.02	96160		100000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752027	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 10:47:0		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	33.78	270240		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752027	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 10:47:0	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	80.39	643120		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2.48	19840		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	40.7	325600		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	7.43	59440		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.59	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	91.12	728960		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	2.43	19440		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	2.22	17760		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	50.44	403520		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752027	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/1/2011 10:47:0		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	107.9271	863416.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	276.70238	2213619.04		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752027	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 10:47:0	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	10.76816	86145.28		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	166.8293	1334634.4		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	64.52212	516176.96		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.04966	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	321.198	2569584		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	10.55106	84408.48		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	3.82062	30564.96		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	190.10836	1520866.88		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.43	99440		100000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752028	1103389-011B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 11:28:0	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	7.11	56880		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752028	1103389-011B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 11:28:0	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	11.98	95840		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	13.59	108720		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.86	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.78	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	7.97	63760		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.7	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	9.42	75360		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752028	1103389-011B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/1/2011 11:28:0	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	22.71645	181731.6		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	41.23516	329881.28		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752028	1103389-011B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/1/2011 11:28:0	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	55.70541	445643.28		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	16.15224	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.70972	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	28.09425	224754		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	3.0394	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	35.50398	284031.84		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.78	94240		100000	0	0	0	0	0	94%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752029	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/2/2011 12:11:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.2	480		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.74	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Acetone	A	ppbv	2.27	908		0	0	0	400	400	0	0%	0	0	0%	
Benzene	A	ppbv	25.89	10356		0	0	0	400	400	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752029	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 12:11:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Cyclohexane	A	ppbv	23.73	9492		0	0	0	400	400	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethanol	A	ppbv	0.65	0		0	0	0	400	400	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2.07	828		0	0	0	400	400	0	0%	0	0	0%	
Heptane	A	ppbv	17.35	6940		0	0	0	400	400	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	8.4	3360		0	0	0	800	800	0	0%	0	0	0%	
Methylene chloride	A	ppbv	3.65	1460		0	0	0	400	400	0	0%	0	0	0%	
n-Hexane	A	ppbv	18.08	7232		0	0	0	400	400	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
o-Xylene	A	ppbv	3.03	1212		0	0	0	400	400	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0.82	0		0	0	0	400	400	0	0%	0	0	0%	
Propylene	A	ppbv	0.77	0		0	0	0	400	400	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Toluene	A	ppbv	29.61	11844		0	0	0	400	400	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2746	2746	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	3065.6	3065.6	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752029	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\	4/2/2011 12:11:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2968.4	2968.4	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	5.8992	2359.68		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	3075.2	3075.2	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	1848.4	1848.4	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	3.63784	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	884.8	884.8	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	1441.6	1441.6	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	1638.8	1638.8	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	1639.2	1639.2	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	5.39125	2156.5		0	0	0	950	950	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	82.71855	33087.42		0	0	0	1278	1278	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2070.8	2070.8	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2679.6	2679.6	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	4134.8	4134.8	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1553.2	1553.2	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	1245.6	1245.6	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	2516.4	2516.4	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1841.6	1841.6	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3407.6	3407.6	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1055.2	1055.2	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	1953.2	1953.2	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	826	826	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	81.67866	32671.464		0	0	0	1376.8	1376.8	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	1978	1978	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752029	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040111	4/2/2011 12:11:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.2246	0		0	0	0	753.6	753.6	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1441.2	1441.2	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	8.98794	3595.176		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	71.11765	28447.06		0	0	0	1639.6	1639.6	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	4266	4266	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	72.9456	29178.24		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	12.6801	5072.04		0	0	0	1389.6	1389.6	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	63.732	25492.8		0	0	0	1410	1410	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	2096.8	2096.8	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	13.15626	5262.504		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.03112	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.32517	0		0	0	0	688.4	688.4	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	1704	1704	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	1442	1442	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2712.8	2712.8	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	111.60009	44640.036		0	0	0	1507.6	1507.6	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2149.6	2149.6	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	2247.2	2247.2	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1408.4	1408.4	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	1022.4	1022.4	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.51	5004		5000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752030	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 12:54:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Acetone	A	ppbv	1.26	504		0	0	0	400	400	0	0%	0	0	0%	
Benzene	A	ppbv	4.43	1772		0	0	0	400	400	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752030	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 12:54:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Cyclohexane	A	ppbv	47.95	19180		0	0	0	400	400	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethanol	A	ppbv	0.57	0		0	0	0	400	400	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Heptane	A	ppbv	6.06	2424		0	0	0	400	400	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.89	0		0	0	0	800	800	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.87	748		0	0	0	400	400	0	0%	0	0	0%	
n-Hexane	A	ppbv	28.61	11444		0	0	0	400	400	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.58	0		0	0	0	400	400	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Toluene	A	ppbv	2.3	920		0	0	0	400	400	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	400	400	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2746	2746	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	3065.6	3065.6	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2182.4	2182.4	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752030	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 12:54:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2968.4	2968.4	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	3075.2	3075.2	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1618.8	1618.8	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	1848.4	1848.4	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	884.8	884.8	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	2404.8	2404.8	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	1441.6	1441.6	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	1638.8	1638.8	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	1639.2	1639.2	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.9925	1197		0	0	0	950	950	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	14.15385	5661.54		0	0	0	1278	1278	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2070.8	2070.8	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2679.6	2679.6	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	4134.8	4134.8	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1553.2	1553.2	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	1245.6	1245.6	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	2516.4	2516.4	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1841.6	1841.6	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3407.6	3407.6	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1055.2	1055.2	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	1953.2	1953.2	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	826	826	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	165.0439	66017.56		0	0	0	1376.8	1376.8	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	1978	1978	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752030	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 12:54:0	400	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.07388	0		0	0	0	753.6	753.6	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1441.2	1441.2	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	24.83994	9935.976		0	0	0	1639.6	1639.6	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	4266	4266	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.72876	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	6.49638	2598.552		0	0	0	1389.6	1389.6	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	100.85025	40340.1		0	0	0	1410	1410	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	2096.8	2096.8	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.51836	0		0	0	0	1736.8	1736.8	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	1966.4	1966.4	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	688.4	688.4	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	1704	1704	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	1442	1442	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2712.8	2712.8	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	1179.6	1179.6	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	8.6687	3467.48		0	0	0	1507.6	1507.6	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1586	1586	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	1815.6	1815.6	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	2149.6	2149.6	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	2247.2	2247.2	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	1408.4	1408.4	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	1022.4	1022.4	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.62	5048		5000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752031	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 1:35:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	7.63	61040		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752031	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040111\4/2/2011 1:35:00		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	51.11	408880		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.52	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	21.61	172880		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.45	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.13	9040		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	61.75	494000		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.51	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	6.16	49280		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752031	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/2/2011 1:35:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	24.37785	195022.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	175.92062	1407364.96		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752031	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111\	4/2/2011 1:35:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.25784	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	88.57939	708635.12		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	12.5918	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.92562	31404.96		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	217.66875	1741350		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.21442	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	23.21704	185736.32		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.11	96880		100000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752032	1103389-031B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 2:16:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	2.04	16320		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	3.8	30400		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752032	1103389-031B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/2/2011 2:16:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	13.02	104160		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.55	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	8.45	67600		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.43	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	13.3	106400		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	7.85	62800		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752032	1103389-031B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/2/2011 2:16:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	4.845	38760		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.141	97128		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	44.81484	358518.72		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752032	1103389-031B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\4/2/2011 2:16:00		8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.3881	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	34.63655	277092.4		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	12.41812	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	46.8825	375060		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	29.58665	236693.2		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.92	95360		100000	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752034	1103389-033B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040111	4/2/2011 8:28:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	6.76	67.6		0	0	0	10	10	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Acetone	A	ppbv	5.95	59.5		0	0	0	10	10	0	0%	0	0	0%	
Benzene	A	ppbv	5.31	53.1		0	0	0	10	10	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	13.01	130.1		0	0	0	10	10	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Chloroform	A	ppbv	0.65	0		0	0	0	10	10	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752034	1103389-033B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040111	4/2/2011 8:28:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Cyclohexane	A	ppbv	1.3	13		0	0	0	10	10	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethanol	A	ppbv	0.76	0		0	0	0	10	10	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Heptane	A	ppbv	0.56	0		0	0	0	10	10	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Toluene	A	ppbv	3.57	35.7		0	0	0	10	10	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Trichloroethene	A	ppbv	2.21	22.1		0	0	0	10	10	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	10	10	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	68.65	68.65	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	51.80864	518.0864		0	0	0	76.64	76.64	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54.56	54.56	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752034	1103389-033B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 8:28:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	74.21	74.21	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	76.88	76.88	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	40.47	40.47	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	46.21	46.21	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	22.12	22.12	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	60.12	60.12	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	36.04	36.04	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	40.97	40.97	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	24.58	24.58	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	40.98	40.98	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	14.13125	141.3125		0	0	0	23.75	23.75	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	16.96545	169.6545		0	0	0	31.95	31.95	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51.77	51.77	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	66.99	66.99	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	103.37	103.37	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	38.83	38.83	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	31.14	31.14	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	81.84591	818.4591		0	0	0	62.91	62.91	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	46.04	46.04	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	85.19	85.19	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	26.38	26.38	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	3.17395	0		0	0	0	48.83	48.83	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	20.65	20.65	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	4.4746	44.746		0	0	0	34.42	34.42	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	49.45	49.45	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752034	1103389-033B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111	4/2/2011 8:28:00	10	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.43184	0		0	0	0	18.84	18.84	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	36.03	36.03	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	2.29544	0		0	0	0	40.99	40.99	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	106.65	106.65	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	34.74	34.74	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	35.25	35.25	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	52.42	52.42	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	43.42	43.42	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	49.16	49.16	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	17.21	17.21	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	42.6	42.6	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	36.05	36.05	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	67.82	67.82	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	29.49	29.49	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	13.45533	134.5533		0	0	0	37.69	37.69	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	39.65	39.65	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	45.39	45.39	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	11.87654	118.7654		0	0	0	53.74	53.74	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	56.18	56.18	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	35.21	35.21	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	25.56	25.56	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	125		125	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.89	128.9		125	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752035	1103389-032B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040111\	4/2/2011 9:11:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0.9	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	1.58	12640		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752035	1103389-032B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 9:11:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	6.19	49520		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0.84	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	3.52	28160		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.06	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	2.22	17760		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	4.68	37440		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	1.45	11600		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	3.96	31680		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752035	1103389-032B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 9:11:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.1375	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	5.0481	40384.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	21.30598	170447.84		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752035	1103389-032B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040111	4/2/2011 9:11:00	8000	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.58256	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	14.42848	115427.84		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.20504	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	7.71228	61698.24		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	16.497	131976		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	4.27605	34208.4		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	14.92524	119401.92		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.11	96880		100000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752572	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111	4/2/2011 9:56:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752572	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111\	4/2/2011 9:56:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.07	1.07		0.96	0	0	1	1	0	111%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.9	0.9		1	0	0	1	1	0	90%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.96	0.96		0.98	0	0	1	1	0	98%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.07	1.07		0.97	0	0	1	1	0	110%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.06	1.06		0.99	0	0	1	1	0	107%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.77	0.77		0.91	0	0	1	1	0	85%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.96	0.96		0.98	0	0	1	1	0	98%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,2-Dichloroethane	A	ppbv	1.14	1.14		0.97	0	0	1	1	0	118%	70	130	0%	
1,2-Dichloropropane	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.97	0.97		0.97	0	0	1	1	0	100%	70	130	0%	
1,3-Butadiene	A	ppbv	1.08	1.08		0.98	0	0	1	1	0	110%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.96	0.96		0.97	0	0	1	1	0	99%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
1,4-Dioxane	A	ppbv	0.69	0.69		0.96	0	0	1	1	0	72%	70	130	0%	
2-Butanone	A	ppbv	0.98	0.98		0.99	0	0	1	1	0	99%	70	130	0%	
2-Hexanone	A	ppbv	0.68	0.68		0.98	0	0	1	1	0	69%	70	130	0%	S
2-Propanol	A	ppbv	0.75	0.75		1.01	0	0	1	1	0	74%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.69	0.69		1	0	0	1	1	0	69%	70	130	0%	S
Acetone	A	ppbv	1.06	1.06		1	0	0	1	1	0	106%	70	130	0%	
Benzene	A	ppbv	1.12	1.12		0.96	0	0	1	1	0	117%	70	130	0%	
Benzyl chloride	A	ppbv	0.99	0.99		0.97	0	0	1	1	0	102%	70	130	0%	
Bromodichloromethane	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Bromoform	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
Bromomethane	A	ppbv	0.96	0.96		0.93	0	0	1	1	0	103%	70	130	0%	
Carbon disulfide	A	ppbv	1.02	1.02		0.97	0	0	1	1	0	105%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.05	1.05		0.95	0	0	1	1	0	111%	70	130	0%	
Chlorobenzene	A	ppbv	0.98	0.98		0.99	0	0	1	1	0	99%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.95	0.95		0.98	0	0	1	1	0	97%	70	130	0%	
Chloroethane	A	ppbv	0.94	0.94		0.92	0	0	1	1	0	102%	70	130	0%	
Chloroform	A	ppbv	1.12	1.12		0.98	0	0	1	1	0	114%	70	130	0%	
Chloromethane	A	ppbv	1.1	1.1		0.95	0	0	1	1	0	116%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752572	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\DATA\040111\	4/2/2011 9:56:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.92	0.92		0.95	0	0	1	1	0	97%	70	130	0%	
Cyclohexane	A	ppbv	1.26	1.26		0.98	0	0	1	1	0	129%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	0.98	0.98		0.92	0	0	1	1	0	107%	70	130	0%	
Ethanol	A	ppbv	0.73	0.73		0.92	0	0	1	1	0	79%	70	130	0%	
Ethyl acetate	A	ppbv	0.86	0.86		0.98	0	0	1	1	0	88%	70	130	0%	
Ethylbenzene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Heptane	A	ppbv	1.18	1.18		0.99	0	0	1	1	0	119%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.94	0.94		0.94	0	0	1	1	0	100%	70	130	0%	
m,p-Xylene	A	ppbv	1.95	1.95		1.92	0	0	2	2	0	102%	70	130	0%	
Methylene chloride	A	ppbv	1.3	1.3		1	0	0	1	1	0	130%	70	130	0%	
n-Hexane	A	ppbv	1.19	1.19		1.01	0	0	1	1	0	118%	70	130	0%	
Naphthalene	A	ppbv	0.71	0.71		0.92	0	0	1	1	0	77%	70	130	0%	
o-Xylene	A	ppbv	0.96	0.96		1	0	0	1	1	0	96%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.95	0.95		0.98	0	0	1	1	0	97%	70	130	0%	
Propylene	A	ppbv	1.08	1.08		1.02	0	0	1	1	0	106%	70	130	0%	
Styrene	A	ppbv	0.95	0.95		0.98	0	0	1	1	0	97%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.01	1.01		0.99	0	0	1	1	0	102%	70	130	0%	
Tetrachloroethene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
Tetrahydrofuran	A	ppbv	0.96	0.96		1	0	0	1	1	0	96%	70	130	0%	
Toluene	A	ppbv	1.22	1.22		0.98	0	0	1	1	0	124%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.87	0.87		0.91	0	0	1	1	0	96%	70	130	0%	
Trichloroethene	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.01	1.01		0.96	0	0	1	1	0	105%	70	130	0%	
Vinyl acetate	A	ppbv	0.99	0.99		0.99	0	0	1	1	0	100%	70	130	0%	
Vinyl chloride	A	ppbv	1.04	1.04		0.94	0	0	1	1	0	111%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.83792	5.83792		5.23776	0	0	5.456	5.456	0	111%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.1785	6.1785		6.865	0	0	6.865	6.865	0	90%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.81728	7.81728		7.51072	0	0	7.664	7.664	0	104%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.23776	5.23776		5.34688	0	0	5.456	5.456	0	98%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	4.33029	4.33029		3.92559	0	0	4.047	4.047	0	110%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.2029	4.2029		3.92535	0	0	3.965	3.965	0	107%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.71417	5.71417		6.75311	0	0	7.421	7.421	0	85%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752572	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111	4/2/2011 9:56:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.71936	4.71936		4.81768	0	0	4.916	4.916	0	98%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.22672	7.22672		7.38048	0	0	7.688	7.688	0	98%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.59116	5.59116		5.83164	0	0	6.012	6.012	0	96%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	4.61358	4.61358		3.92559	0	0	4.047	4.047	0	118%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.621	4.621		4.52858	0	0	4.621	4.621	0	102%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.76852	0	0	4.916	4.916	0	100%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.38896	2.38896		2.16776	0	0	2.212	2.212	0	110%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.77152	5.77152		5.83164	0	0	6.012	6.012	0	99%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	5.77152	5.77152		5.77152	0	0	6.012	6.012	0	100%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	2.48676	2.48676		3.45984	0	0	3.604	3.604	0	72%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	2.89002	2.89002		2.91951	0	0	2.949	2.949	0	99%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.78596	2.78596		4.01506	0	0	4.097	4.097	0	69%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	1.8435	1.8435		2.48258	0	0	2.458	2.458	0	74%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.82762	2.82762		4.098	0	0	4.098	4.098	0	69%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.5175	2.5175		2.375	0	0	2.375	2.375	0	106%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.5784	3.5784		3.0672	0	0	3.195	3.195	0	117%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	5.12523	5.12523		5.02169	0	0	5.177	5.177	0	102%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.49803	6.49803		6.43104	0	0	6.699	6.699	0	101%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	9.92352	9.92352		9.92352	0	0	10.337	10.337	0	100%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	3.72768	3.72768		3.61119	0	0	3.883	3.883	0	103%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.17628	3.17628		3.02058	0	0	3.114	3.114	0	105%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	6.60555	6.60555		5.97645	0	0	6.291	6.291	0	111%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.51192	4.51192		4.55796	0	0	4.604	4.604	0	99%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	8.09305	8.09305		8.34862	0	0	8.519	8.519	0	97%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.47972	2.47972		2.42696	0	0	2.638	2.638	0	102%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	5.46896	5.46896		4.78534	0	0	4.883	4.883	0	114%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.2715	2.2715		1.96175	0	0	2.065	2.065	0	116%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	4.08395	4.08395		3.8857	0	0	3.965	3.965	0	105%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.17588	4.17588		4.31205	0	0	4.539	4.539	0	97%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	4.33692	4.33692		3.37316	0	0	3.442	3.442	0	129%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.8461	4.8461		4.5494	0	0	4.945	4.945	0	107%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.37532	1.37532		1.73328	0	0	1.884	1.884	0	79%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	3.09858	3.09858		3.53094	0	0	3.603	3.603	0	88%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.25516	4.25516		4.25516	0	0	4.342	4.342	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752572	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040111\	4/2/2011 9:56:00	1	R39600		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	4.83682	4.83682		4.05801	0	0	4.099	4.099	0	119%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	10.0251	10.0251		10.0251	0	0	10.665	10.665	0	100%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	16.9338	16.9338		16.67328	0	0	17.368	17.368	0	102%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	4.5162	4.5162		3.474	0	0	3.474	3.474	0	130%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	4.19475	4.19475		3.56025	0	0	3.525	3.525	0	118%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	3.72182	3.72182		4.82264	0	0	5.242	5.242	0	77%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.16832	4.16832		4.342	0	0	4.342	4.342	0	96%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.6702	4.6702		4.81768	0	0	4.916	4.916	0	97%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.85868	1.85868		1.75542	0	0	1.721	1.721	0	106%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.047	4.047		4.1748	0	0	4.26	4.26	0	97%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.64105	3.64105		3.56895	0	0	3.605	3.605	0	102%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.782	6.782		6.51072	0	0	6.782	6.782	0	104%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.83104	2.83104		2.949	0	0	2.949	2.949	0	96%	70	130	0%	
Toluene-ug/m3	C	µg/m³	4.59818	4.59818		3.69362	0	0	3.769	3.769	0	124%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.1236	4.1236		3.8857	0	0	3.965	3.965	0	106%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.94893	3.94893		4.13049	0	0	4.539	4.539	0	96%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.21278	5.21278		5.15904	0	0	5.374	5.374	0	101%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.67418	5.67418		5.39328	0	0	5.618	5.618	0	105%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	3.48579	3.48579		3.48579	0	0	3.521	3.521	0	100%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	2.65824	2.65824		2.40264	0	0	2.556	2.556	0	111%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.92	11.92		12.5	0	0	0	0	0	95%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39618

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752547	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040211\4/2/2011 10:40:0		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.2	0.2		0	0	0	0	0	0	0%	0	2	0%	
174	M		88	88		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.3	7.3		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.6	97.6		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.6	17.6		0	0	0	0	0	0	0%	8	40	0%	
75	M		46.4	46.4		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752548	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040211\4/2/2011 11:19:0		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	9.4	9.4		10	0	0	1	1	0	94%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.51	1.51		4.17	0	0	1	1	0	36%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	9.08	9.08		9.8	0	0	1	1	0	93%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	8.51	8.51		10	0	0	1	1	0	85%	70	130	0%	
1,1-Dichloroethane	A	ppbv	9.64	9.64		10	0	0	1	1	0	96%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.3	8.3		10	0	0	1	1	0	83%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	7.84	7.84		10.6	0	0	1	1	0	74%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	8.47	8.47		10	0	0	1	1	0	85%	70	130	0%	
1,2-Dibromoethane	A	ppbv	7.32	7.32		10	0	0	1	1	0	73%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	8.51	8.51		10	0	0	1	1	0	85%	70	130	0%	
1,2-Dichloroethane	A	ppbv	9.44	9.44		10	0	0	1	1	0	94%	70	130	0%	
1,2-Dichloropropane	A	ppbv	8.89	8.89		10	0	0	1	1	0	89%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	8.38	8.38		10	0	0	1	1	0	84%	70	130	0%	
1,3-Butadiene	A	ppbv	9.55	9.55		10	0	0	1	1	0	96%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	8.49	8.49		10	0	0	1	1	0	85%	70	130	0%	

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Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752548	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\1\DATA\040211	4/2/2011 11:19:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	8.53	8.53		10.2	0	0	1	1	0	84%	70	130	0%	
1,4-Dioxane	A	ppbv	8.83	8.83		10	0	0	1	1	0	88%	70	130	0%	
2-Butanone	A	ppbv	9.64	9.64		10.2	0	0	1	1	0	95%	70	130	0%	
2-Hexanone	A	ppbv	14.45	14.45		10	0	0	1	1	0	145%	70	130	0%	S
2-Propanol	A	ppbv	10.92	10.92		10	0	0	1	1	0	109%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	11.62	11.62		10.6	0	0	1	1	0	110%	70	130	0%	
Acetone	A	ppbv	8.85	8.85		10	0	0	1	1	0	89%	70	130	0%	
Benzene	A	ppbv	9.06	9.06		10	0	0	1	1	0	91%	70	130	0%	
Benzyl chloride	A	ppbv	2.67	2.67		5.4	0	0	1	1	0	49%	70	130	0%	S
Bromodichloromethane	A	ppbv	9.21	9.21		10.2	0	0	1	1	0	90%	70	130	0%	
Bromoform	A	ppbv	8.41	8.41		9.8	0	0	1	1	0	86%	70	130	0%	
Bromomethane	A	ppbv	5.11	5.11		10	0	0	1	1	0	51%	70	130	0%	S
Carbon disulfide	A	ppbv	8.35	8.35		10	0	0	1	1	0	84%	70	130	0%	
Carbon tetrachloride	A	ppbv	9.52	9.52		10	0	0	1	1	0	95%	70	130	0%	
Chlorobenzene	A	ppbv	8.39	8.39		10	0	0	1	1	0	84%	70	130	0%	
Chlorodibromomethane	A	ppbv	8.96	8.96		10	0	0	1	1	0	90%	70	130	0%	
Chloroethane	A	ppbv	7.04	7.04		10	0	0	1	1	0	70%	70	130	0%	
Chloroform	A	ppbv	9.55	9.55		10.2	0	0	1	1	0	94%	70	130	0%	
Chloromethane	A	ppbv	11.9	11.9		10.2	0	0	1	1	0	117%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	9.46	9.46		10	0	0	1	1	0	95%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	8.48	8.48		10.6	0	0	1	1	0	80%	70	130	0%	
Cyclohexane	A	ppbv	9.44	9.44		10.2	0	0	1	1	0	93%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	8.94	8.94		10	0	0	1	1	0	89%	70	130	0%	
Ethanol	A	ppbv	10.64	10.64		12.2	0	0	1	1	0	87%	70	130	0%	
Ethyl acetate	A	ppbv	10.01	10.01		10	0	0	1	1	0	100%	70	130	0%	
Ethylbenzene	A	ppbv	9.11	9.11		10	0	0	1	1	0	91%	70	130	0%	
Heptane	A	ppbv	9.24	9.24		10	0	0	1	1	0	92%	70	130	0%	
Hexachlorobutadiene	A	ppbv	7.29	7.29		9.8	0	0	1	1	0	74%	70	130	0%	
m,p-Xylene	A	ppbv	17.29	17.29		20	0	0	2	2	0	86%	70	130	0%	
Methylene chloride	A	ppbv	8.75	8.75		9.8	0	0	1	1	0	89%	70	130	0%	
n-Hexane	A	ppbv	8.73	8.73		10.2	0	0	1	1	0	86%	70	130	0%	
Naphthalene	A	ppbv	8.11	8.11		10	0	0	1	1	0	81%	70	130	0%	
o-Xylene	A	ppbv	9.09	9.09		10	0	0	1	1	0	91%	70	130	0%	
p-Ethyltoluene	A	ppbv	8.18	8.18		10.6	0	0	1	1	0	77%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752548	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040211\4/2/2011 11:19:0		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	10.08	10.08		10	0	0	1	1	0	101%	70	130	0%	
Styrene	A	ppbv	9.38	9.38		10	0	0	1	1	0	94%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	8.65	8.65		10	0	0	1	1	0	87%	70	130	0%	
Tetrachloroethene	A	ppbv	9.07	9.07		10	0	0	1	1	0	91%	70	130	0%	
Tetrahydrofuran	A	ppbv	10.86	10.86		10	0	0	1	1	0	109%	70	130	0%	
Toluene	A	ppbv	9.2	9.2		10	0	0	1	1	0	92%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	9.15	9.15		10	0	0	1	1	0	92%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	7.88	7.88		9.4	0	0	1	1	0	84%	70	130	0%	
Trichloroethene	A	ppbv	15.27	15.27		13.6	0	0	1	1	0	112%	70	130	0%	
Trichlorofluoromethane	A	ppbv	8.9	8.9		10	0	0	1	1	0	89%	70	130	0%	
Vinyl acetate	A	ppbv	7.81	7.81		10	0	0	1	1	0	78%	70	130	0%	
Vinyl chloride	A	ppbv	9.14	9.14		10	0	0	1	1	0	91%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	51.2864	51.2864		54.56	0	0	5.456	5.456	0	94%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	10.36615	10.36615		28.62705	0	0	6.865	6.865	0	36%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	69.58912	69.58912		75.1072	0	0	7.664	7.664	0	93%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	46.43056	46.43056		54.56	0	0	5.456	5.456	0	85%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	39.01308	39.01308		40.47	0	0	4.047	4.047	0	96%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	32.9095	32.9095		39.65	0	0	3.965	3.965	0	83%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	58.18064	58.18064		78.6626	0	0	7.421	7.421	0	74%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	41.63852	41.63852		49.16	0	0	4.916	4.916	0	85%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	56.27616	56.27616		76.88	0	0	7.688	7.688	0	73%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	51.16212	51.16212		60.12	0	0	6.012	6.012	0	85%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	38.20368	38.20368		40.47	0	0	4.047	4.047	0	94%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	41.08069	41.08069		46.21	0	0	4.621	4.621	0	89%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	41.19608	41.19608		49.16	0	0	4.916	4.916	0	84%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	21.1246	21.1246		22.12	0	0	2.212	2.212	0	96%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	51.04188	51.04188		60.12	0	0	6.012	6.012	0	85%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	51.28236	51.28236		61.3224	0	0	6.012	6.012	0	84%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	31.82332	31.82332		36.04	0	0	3.604	3.604	0	88%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	28.42836	28.42836		30.0798	0	0	2.949	2.949	0	95%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	59.20165	59.20165		40.97	0	0	4.097	4.097	0	145%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	26.84136	26.84136		24.58	0	0	2.458	2.458	0	109%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	47.61876	47.61876		43.4388	0	0	4.098	4.098	0	110%	70	130	0%	
Acetone-ug/m3	C	µg/m³	21.01875	21.01875		23.75	0	0	2.375	2.375	0	89%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752548	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040211	4/2/2011 11:19:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	28.9467	28.9467		31.95	0	0	3.195	3.195	0	91%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	13.82259	13.82259		27.9558	0	0	5.177	5.177	0	49%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	61.69779	61.69779		68.3298	0	0	6.699	6.699	0	90%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	86.93417	86.93417		101.3026	0	0	10.337	10.337	0	86%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	19.84213	19.84213		38.83	0	0	3.883	3.883	0	51%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	26.0019	26.0019		31.14	0	0	3.114	3.114	0	84%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	59.89032	59.89032		62.91	0	0	6.291	6.291	0	95%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	38.62756	38.62756		46.04	0	0	4.604	4.604	0	84%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	76.33024	76.33024		85.19	0	0	8.519	8.519	0	90%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	18.57152	18.57152		26.38	0	0	2.638	2.638	0	70%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	46.63265	46.63265		49.8066	0	0	4.883	4.883	0	94%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	24.5735	24.5735		21.063	0	0	2.065	2.065	0	117%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	37.5089	37.5089		39.65	0	0	3.965	3.965	0	95%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	38.49072	38.49072		48.1134	0	0	4.539	4.539	0	80%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	32.49248	32.49248		35.1084	0	0	3.442	3.442	0	93%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	44.2083	44.2083		49.45	0	0	4.945	4.945	0	89%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	20.04576	20.04576		22.9848	0	0	1.884	1.884	0	87%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	36.06603	36.06603		36.03	0	0	3.603	3.603	0	100%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	39.55562	39.55562		43.42	0	0	4.342	4.342	0	91%	70	130	0%	
Heptane-ug/m3	C	µg/m³	37.87476	37.87476		40.99	0	0	4.099	4.099	0	92%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	77.74785	77.74785		104.517	0	0	10.665	10.665	0	74%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	150.14636	150.14636		173.68	0	0	17.368	17.368	0	86%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	30.3975	30.3975		34.0452	0	0	3.474	3.474	0	89%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	30.77325	30.77325		35.955	0	0	3.525	3.525	0	86%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	42.51262	42.51262		52.42	0	0	5.242	5.242	0	81%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	39.46878	39.46878		43.42	0	0	4.342	4.342	0	91%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	40.21288	40.21288		52.1096	0	0	4.916	4.916	0	77%	70	130	0%	
Propylene-ug/m3	C	µg/m³	17.34768	17.34768		17.21	0	0	1.721	1.721	0	101%	70	130	0%	
Styrene-ug/m3	C	µg/m³	39.9588	39.9588		42.6	0	0	4.26	4.26	0	94%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	31.18325	31.18325		36.05	0	0	3.605	3.605	0	87%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	61.51274	61.51274		67.82	0	0	6.782	6.782	0	91%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	32.02614	32.02614		29.49	0	0	2.949	2.949	0	109%	70	130	0%	
Toluene-ug/m3	C	µg/m³	34.6748	34.6748		37.69	0	0	3.769	3.769	0	92%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	36.27975	36.27975		39.65	0	0	3.965	3.965	0	92%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752548	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040211	4/2/2011 11:19:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	35.76732	35.76732		42.6666	0	0	4.539	4.539	0	84%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	82.06098	82.06098		73.0864	0	0	5.374	5.374	0	112%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	50.0002	50.0002		56.18	0	0	5.618	5.618	0	89%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	27.49901	27.49901		35.21	0	0	3.521	3.521	0	78%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	23.36184	23.36184		25.56	0	0	2.556	2.556	0	91%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.83	11.83		12.5	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752549	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040211	4/2/2011 12:00:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.06	1.06		0.96	0	0	1	1	0	110%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.95	0.95		1	0	0	1	1	0	95%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.04	1.04		0.97	0	0	1	1	0	107%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.03	1.03		0.99	0	0	1	1	0	104%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.93	0.93		0.91	0	0	1	1	0	102%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
1,2-Dibromoethane	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.03	1.03		0.97	0	0	1	1	0	106%	70	130	0%	
1,2-Dichloroethane	A	ppbv	1.15	1.15		0.97	0	0	1	1	0	119%	70	130	0%	
1,2-Dichloropropane	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.07	1.07		0.97	0	0	1	1	0	110%	70	130	0%	
1,3-Butadiene	A	ppbv	1.06	1.06		0.98	0	0	1	1	0	108%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	1.06	1.06		0.97	0	0	1	1	0	109%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1.07	1.07		0.96	0	0	1	1	0	111%	70	130	0%	
1,4-Dioxane	A	ppbv	1.09	1.09		0.96	0	0	1	1	0	114%	70	130	0%	
2-Butanone	A	ppbv	0.99	0.99		0.99	0	0	1	1	0	100%	70	130	0%	
2-Hexanone	A	ppbv	0.85	0.85		0.98	0	0	1	1	0	87%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752549	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040211	4/2/2011 12:00:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	0.84	0.84		1.01	0	0	1	1	0	83%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.73	0.73		1	0	0	1	1	0	73%	70	130	0%	
Acetone	A	ppbv	1.03	1.03		1	0	0	1	1	0	103%	70	130	0%	
Benzene	A	ppbv	1.09	1.09		0.96	0	0	1	1	0	114%	70	130	0%	
Benzyl chloride	A	ppbv	1.04	1.04		0.97	0	0	1	1	0	107%	70	130	0%	
Bromodichloromethane	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
Bromoform	A	ppbv	1.04	1.04		0.96	0	0	1	1	0	108%	70	130	0%	
Bromomethane	A	ppbv	0.93	0.93		0.93	0	0	1	1	0	100%	70	130	0%	
Carbon disulfide	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.03	1.03		0.95	0	0	1	1	0	108%	70	130	0%	
Chlorobenzene	A	ppbv	1.02	1.02		0.99	0	0	1	1	0	103%	70	130	0%	
Chlorodibromomethane	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Chloroethane	A	ppbv	0.92	0.92		0.92	0	0	1	1	0	100%	70	130	0%	
Chloroform	A	ppbv	1.1	1.1		0.98	0	0	1	1	0	112%	70	130	0%	
Chloromethane	A	ppbv	1.04	1.04		0.95	0	0	1	1	0	109%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.97	0.97		0.95	0	0	1	1	0	102%	70	130	0%	
Cyclohexane	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	0.95	0.95		0.92	0	0	1	1	0	103%	70	130	0%	
Ethanol	A	ppbv	1.02	1.02		0.92	0	0	1	1	0	111%	70	130	0%	
Ethyl acetate	A	ppbv	0.94	0.94		0.98	0	0	1	1	0	96%	70	130	0%	
Ethylbenzene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
Heptane	A	ppbv	1.04	1.04		0.99	0	0	1	1	0	105%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.99	0.99		0.94	0	0	1	1	0	105%	70	130	0%	
m,p-Xylene	A	ppbv	2.04	2.04		1.92	0	0	2	2	0	106%	70	130	0%	
Methylene chloride	A	ppbv	1.08	1.08		1	0	0	1	1	0	108%	70	130	0%	
n-Hexane	A	ppbv	1.04	1.04		1.01	0	0	1	1	0	103%	70	130	0%	
Naphthalene	A	ppbv	1.06	1.06		0.92	0	0	1	1	0	115%	70	130	0%	
o-Xylene	A	ppbv	1.05	1.05		1	0	0	1	1	0	105%	70	130	0%	
p-Ethyltoluene	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
Propylene	A	ppbv	1.06	1.06		1.02	0	0	1	1	0	104%	70	130	0%	
Styrene	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.05	1.05		0.99	0	0	1	1	0	106%	70	130	0%	
Tetrachloroethene	A	ppbv	1.03	1.03		0.96	0	0	1	1	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752549	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040211	4/2/2011 12:00:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	0.95	0.95		1	0	0	1	1	0	95%	70	130	0%	
Toluene	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	1.01	1.01		0.98	0	0	1	1	0	103%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.9	0.9		0.91	0	0	1	1	0	99%	70	130	0%	
Trichloroethene	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Trichlorofluoromethane	A	ppbv	0.99	0.99		0.96	0	0	1	1	0	103%	70	130	0%	
Vinyl acetate	A	ppbv	1.04	1.04		0.99	0	0	1	1	0	105%	70	130	0%	
Vinyl chloride	A	ppbv	1	1		0.94	0	0	1	1	0	106%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.78336	5.78336		5.23776	0	0	5.456	5.456	0	110%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.52175	6.52175		6.865	0	0	6.865	6.865	0	95%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.51072	7.51072		7.51072	0	0	7.664	7.664	0	100%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.456	5.456		5.34688	0	0	5.456	5.456	0	102%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	4.20888	4.20888		3.92559	0	0	4.047	4.047	0	107%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.08395	4.08395		3.92535	0	0	3.965	3.965	0	104%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	6.90153	6.90153		6.75311	0	0	7.421	7.421	0	102%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	5.11264	5.11264		4.81768	0	0	4.916	4.916	0	106%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.688	7.688		7.38048	0	0	7.688	7.688	0	104%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	6.19236	6.19236		5.83164	0	0	6.012	6.012	0	106%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	4.65405	4.65405		3.92559	0	0	4.047	4.047	0	119%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.80584	4.80584		4.52858	0	0	4.621	4.621	0	106%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	5.26012	5.26012		4.76852	0	0	4.916	4.916	0	110%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.34472	2.34472		2.16776	0	0	2.212	2.212	0	108%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	6.37272	6.37272		5.83164	0	0	6.012	6.012	0	109%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	6.43284	6.43284		5.77152	0	0	6.012	6.012	0	111%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	3.92836	3.92836		3.45984	0	0	3.604	3.604	0	114%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	2.91951	2.91951		2.91951	0	0	2.949	2.949	0	100%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	3.48245	3.48245		4.01506	0	0	4.097	4.097	0	87%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	2.06472	2.06472		2.48258	0	0	2.458	2.458	0	83%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.99154	2.99154		4.098	0	0	4.098	4.098	0	73%	70	130	0%	
Acetone-ug/m3	C	µg/m³	2.44625	2.44625		2.375	0	0	2.375	2.375	0	103%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.48255	3.48255		3.0672	0	0	3.195	3.195	0	114%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	5.38408	5.38408		5.02169	0	0	5.177	5.177	0	107%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.699	6.699		6.43104	0	0	6.699	6.699	0	104%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	10.75048	10.75048		9.92352	0	0	10.337	10.337	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752549	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040211	4/2/2011 12:00:0	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	3.61119	3.61119		3.61119	0	0	3.883	3.883	0	100%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.05172	3.05172		3.02058	0	0	3.114	3.114	0	101%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	6.47973	6.47973		5.97645	0	0	6.291	6.291	0	108%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.69608	4.69608		4.55796	0	0	4.604	4.604	0	103%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	8.519	8.519		8.34862	0	0	8.519	8.519	0	102%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.42696	2.42696		2.42696	0	0	2.638	2.638	0	100%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	5.3713	5.3713		4.78534	0	0	4.883	4.883	0	112%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.1476	2.1476		1.96175	0	0	2.065	2.065	0	109%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	4.0443	4.0443		3.8857	0	0	3.965	3.965	0	104%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.40283	4.40283		4.31205	0	0	4.539	4.539	0	102%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.57968	3.57968		3.37316	0	0	3.442	3.442	0	106%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.69775	4.69775		4.5494	0	0	4.945	4.945	0	103%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.92168	1.92168		1.73328	0	0	1.884	1.884	0	111%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	3.38682	3.38682		3.53094	0	0	3.603	3.603	0	96%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.42884	4.42884		4.25516	0	0	4.342	4.342	0	104%	70	130	0%	
Heptane-ug/m3	C	µg/m³	4.26296	4.26296		4.05801	0	0	4.099	4.099	0	105%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	10.55835	10.55835		10.0251	0	0	10.665	10.665	0	105%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	17.71536	17.71536		16.67328	0	0	17.368	17.368	0	106%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.75192	3.75192		3.474	0	0	3.474	3.474	0	108%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	3.666	3.666		3.56025	0	0	3.525	3.525	0	103%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	5.55652	5.55652		4.82264	0	0	5.242	5.242	0	115%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.5591	4.5591		4.342	0	0	4.342	4.342	0	105%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	5.06348	5.06348		4.81768	0	0	4.916	4.916	0	105%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.82426	1.82426		1.75542	0	0	1.721	1.721	0	104%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.3878	4.3878		4.1748	0	0	4.26	4.26	0	105%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.78525	3.78525		3.56895	0	0	3.605	3.605	0	106%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.98546	6.98546		6.51072	0	0	6.782	6.782	0	107%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.80155	2.80155		2.949	0	0	2.949	2.949	0	95%	70	130	0%	
Toluene-ug/m3	C	µg/m³	3.91976	3.91976		3.69362	0	0	3.769	3.769	0	106%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.00465	4.00465		3.8857	0	0	3.965	3.965	0	103%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	4.0851	4.0851		4.13049	0	0	4.539	4.539	0	99%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.21278	5.21278		5.15904	0	0	5.374	5.374	0	101%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.56182	5.56182		5.39328	0	0	5.618	5.618	0	103%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	3.66184	3.66184		3.48579	0	0	3.521	3.521	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752549	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040211\4/2/2011 12:00:0		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	2.556	2.556		2.40264	0	0	2.556	2.556	0	106%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.07	12.07		12.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752550	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040211\4/2/2011 12:43:0		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist			
752550	MBLK	EPA_TO15-UG/	MBLK	\1\DATA\040211\4/2/2011 12:43:0		1	R39618		0	0				

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist			
752550	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040211\4/2/2011 12:43:0		1	R39618		0	0				

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist			
752550	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040211	4/2/2011 12:43:0	1	R39618		0	0				

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.6	11.6		12.5	0	0	0	0	0	93%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752551	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\4/2/2011 2:11:00		20	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
2-Propanol	A	ppbv	4.61	92.2		0	0	0	20	20	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Acetone	A	ppbv	3.73	74.6		0	0	0	20	20	0	0%	0	0	0%	
Benzene	A	ppbv	7.3	146		0	0	0	20	20	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752551	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\4/2/2011 2:11:00		20	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Cyclohexane	A	ppbv	11.61	232.2		0	0	0	20	20	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Ethanol	A	ppbv	0.69	0		0	0	0	20	20	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Heptane	A	ppbv	3.15	63		0	0	0	20	20	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.6	0		0	0	0	40	40	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
n-Hexane	A	ppbv	10.37	207.4		0	0	0	20	20	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Toluene	A	ppbv	3.59	71.8		0	0	0	20	20	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	20	20	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109.12	109.12	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	137.3	137.3	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	153.28	153.28	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109.12	109.12	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80.94	80.94	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752551	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 2:11:00	20	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79.3	79.3	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	148.42	148.42	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	153.76	153.76	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120.24	120.24	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80.94	80.94	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	92.42	92.42	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	44.24	44.24	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120.24	120.24	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120.24	120.24	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	72.08	72.08	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	58.98	58.98	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	81.94	81.94	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	11.33138	226.6276		0	0	0	49.16	49.16	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	81.96	81.96	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	8.85875	177.175		0	0	0	47.5	47.5	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	23.3235	466.47		0	0	0	63.9	63.9	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	103.54	103.54	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	133.98	133.98	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	206.74	206.74	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	77.66	77.66	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	62.28	62.28	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	125.82	125.82	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	92.08	92.08	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	170.38	170.38	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	52.76	52.76	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	97.66	97.66	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	41.3	41.3	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79.3	79.3	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90.78	90.78	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	39.96162	799.2324		0	0	0	68.84	68.84	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	98.9	98.9	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752551	1103389-001B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 2:11:00	20	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.29996	0		0	0	0	37.68	37.68	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	72.06	72.06	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	86.84	86.84	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	12.91185	258.237		0	0	0	81.98	81.98	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	213.3	213.3	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	5.2104	0		0	0	0	347.36	347.36	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	69.48	69.48	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	36.55425	731.085		0	0	0	70.5	70.5	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	104.84	104.84	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	86.84	86.84	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	34.42	34.42	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	85.2	85.2	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	72.1	72.1	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	135.64	135.64	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	58.98	58.98	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	13.53071	270.6142		0	0	0	75.38	75.38	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79.3	79.3	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90.78	90.78	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	107.48	107.48	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	112.36	112.36	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	70.42	70.42	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51.12	51.12	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	250		250	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	250		250	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	250		250	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.73	254.6		250	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752552	1103389-015B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 2:52:00	40	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	3.42	136.8		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	5.82	232.8		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752552	1103389-015B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 2:52:00	40	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	6.28	251.2		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	1.13	45.2		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.7	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.99	119.6		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.66	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	1.18	47.2		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752552	1103389-015B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 2:52:00	40	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	8.1225	324.9		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	18.5949	743.796		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	21.61576	864.6304		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752552	1103389-015B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 2:52:00	40	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	4.63187	185.2748		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	6.0788	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	10.53975	421.59		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.86572	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	4.44742	177.8968		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	13.46	538.4		500	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752553	1103389-015BDUP	EPA_TO15-UG/	DUP	\I\DATA\040211	4/2/2011 3:33:00	40	R39618		0	752552	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752553	1103389-015BDUP	EPA_TO15-UG/	DUP	\1\DATA\040211\4/2/2011 3:33:00		40	R39618		0	752552	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0.61	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	2.79	111.6		0	0	136.8	40	40	0	0%	0	0	20%	
Benzene	A	ppbv	5.09	203.6		0	0	232.8	40	40	0	0%	0	0	13%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752553	1103389-015BDUP	EPA_TO15-UG/	DUP	\\DATA\040211	4/2/2011 3:33:00	40	R39618		0	752552	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	5.37	214.8		0	0	251.2	40	40	0	0%	0	0	16%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	1	40		0	0	45.2	40	40	0	0%	0	0	12%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.63	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.6	104		0	0	119.6	40	40	0	0%	0	0	14%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.57	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	1.07	42.8		0	0	47.2	40	40	0	0%	0	0	10%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752553	1103389-015BDUP	EPA_TO15-UG/	DUP	\I\DATA\040211	4/2/2011 3:33:00	40	R39618		0	752552	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	1.49938	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	6.62625	265.05		0	0	324.9	95	95	0	0%	0	0	20%	
Benzene-ug/m3	C	µg/m³	16.26255	650.502		0	0	743.796	127.8	127.8	0	0%	0	0	13%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	18.48354	739.3416		0	0	864.6304	137.68	137.68	0	0%	0	0	16%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752553	1103389-015BDUP	EPA_TO15-UG/	DUP	\I\DATA\040211	4/2/2011 3:33:00	40	R39618		0	752552	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	4.099	163.96		0	0	185.2748	163.96	163.96	0	0%	0	0	12%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	5.47092	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	9.165	366.6		0	0	421.59	141	141	0	0%	0	0	14%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.47494	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	4.03283	161.3132		0	0	177.8968	150.76	150.76	0	0%	0	0	10%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	500	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	500	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	500	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	13.26	530.4		500	0	538.4	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752554	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:14:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752554	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 4:14:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Benzene	A	ppbv	2.74	54800		0	0	0	20000	20000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752554	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:14:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane	A	ppbv	25.63	512600		0	0	0	20000	20000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Heptane	A	ppbv	9.46	189200		0	0	0	20000	20000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.65	0		0	0	0	40000	40000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.8	0		0	0	0	20000	20000	0	0%	0	0	0%	
n-Hexane	A	ppbv	31.38	627600		0	0	0	20000	20000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	5.28	105600		0	0	0	20000	20000	0	0%	0	0	0%	
Toluene	A	ppbv	2.28	45600		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	137300	137300	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	153280	153280	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	148420	148420	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752554	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 4:14:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	153760	153760	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	92420	92420	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	44240	44240	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	72080	72080	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	58980	58980	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	81940	81940	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	49160	49160	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	81960	81960	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	47500	47500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	8.7543	175086		0	0	0	63900	63900	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	103540	103540	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	133980	133980	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	206740	206740	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	77660	77660	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	62280	62280	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	125820	125820	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	92080	92080	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	170380	170380	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	52760	52760	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	97660	97660	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	41300	41300	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	88.21846	1764369.2		0	0	0	68840	68840	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	98900	98900	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	37680	37680	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	72060	72060	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	86840	86840	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752554	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:14:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	38.77654	775530.8		0	0	0	81980	81980	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	213300	213300	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	5.6446	0		0	0	0	347360	347360	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.7792	0		0	0	0	69480	69480	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	110.6145	2212290		0	0	0	70500	70500	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	104840	104840	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	86840	86840	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	34420	34420	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	85200	85200	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	72100	72100	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	135640	135640	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	15.57072	311414.4		0	0	0	58980	58980	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	8.59332	171866.4		0	0	0	75380	75380	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	107480	107480	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	112360	112360	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	70420	70420	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51120	51120	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.08	241600		250000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752555	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:56:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752555	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:56:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	1.29	51600		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752555	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:56:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	12.71	508400		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	4.5	180000		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.95	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	15.34	613600		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	1.09	43600		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752555	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 4:56:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	4.12155	164862		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	43.74782	1749912.8		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752555	1103389-002B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 4:56:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	18.4455	737820		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.3003	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	54.0735	2162940		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	4.10821	164328.4		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.18	487200		500000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752556	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 5:39:00	200	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752556	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 5:39:00	200	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.75	0		0	0	0	200	200	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
2-Propanol	A	ppbv	1.12	224		0	0	0	200	200	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Acetone	A	ppbv	4.26	852		0	0	0	200	200	0	0%	0	0	0%	
Benzene	A	ppbv	2.98	596		0	0	0	200	200	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752556	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040211	4/2/2011 5:39:00	200	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Cyclohexane	A	ppbv	8.58	1716		0	0	0	200	200	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Ethanol	A	ppbv	1.56	312		0	0	0	200	200	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.66	0		0	0	0	200	200	0	0%	0	0	0%	
Heptane	A	ppbv	7.67	1534		0	0	0	200	200	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.85	0		0	0	0	400	400	0	0%	0	0	0%	
Methylene chloride	A	ppbv	15.69	3138		0	0	0	200	200	0	0%	0	0	0%	
n-Hexane	A	ppbv	8.02	1604		0	0	0	200	200	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.73	0		0	0	0	200	200	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Toluene	A	ppbv	9.73	1946		0	0	0	200	200	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	200	200	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1091.2	1091.2	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1373	1373	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1532.8	1532.8	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1091.2	1091.2	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	809.4	809.4	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752556	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 5:39:00	200	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	793	793	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1484.2	1484.2	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	3.687	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1537.6	1537.6	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1202.4	1202.4	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	809.4	809.4	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	924.2	924.2	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	442.4	442.4	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1202.4	1202.4	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1202.4	1202.4	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	720.8	720.8	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	589.8	589.8	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	819.4	819.4	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	2.75296	550.592		0	0	0	491.6	491.6	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	819.6	819.6	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	10.1175	2023.5		0	0	0	475	475	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	9.5211	1904.22		0	0	0	639	639	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	1035.4	1035.4	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1339.8	1339.8	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	2067.4	2067.4	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	776.6	776.6	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	622.8	622.8	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1258.2	1258.2	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	920.8	920.8	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1703.8	1703.8	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	527.6	527.6	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	976.6	976.6	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	413	413	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	793	793	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	907.8	907.8	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	29.53236	5906.472		0	0	0	688.4	688.4	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	989	989	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752556	1103389-003B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040211	4/2/2011 5:39:00	200	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	2.93904	587.808		0	0	0	376.8	376.8	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	720.6	720.6	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.86572	0		0	0	0	868.4	868.4	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	31.43933	6287.866		0	0	0	819.8	819.8	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	2133	2133	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	16.0654	0		0	0	0	3473.6	3473.6	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	54.50706	10901.412		0	0	0	694.8	694.8	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	28.2705	5654.1		0	0	0	705	705	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	1048.4	1048.4	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	3.16966	0		0	0	0	868.4	868.4	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	983.2	983.2	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	344.2	344.2	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	852	852	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	721	721	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1356.4	1356.4	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	589.8	589.8	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	36.67237	7334.474		0	0	0	753.8	753.8	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	793	793	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	907.8	907.8	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1074.8	1074.8	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	1123.6	1123.6	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	704.2	704.2	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	511.2	511.2	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2500		2500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2500		2500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2500		2500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.87	2574		2500	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752557	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 6:21:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Acetone	A	ppbv	0.62	0		0	0	0	1600	1600	0	0%	0	0	0%	
Benzene	A	ppbv	8.96	14336		0	0	0	1600	1600	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752557	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 6:21:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Cyclohexane	A	ppbv	10.5	16800		0	0	0	1600	1600	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Heptane	A	ppbv	2.88	4608		0	0	0	1600	1600	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.87	0		0	0	0	3200	3200	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.28	2048		0	0	0	1600	1600	0	0%	0	0	0%	
n-Hexane	A	ppbv	11.66	18656		0	0	0	1600	1600	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Propylene	A	ppbv	1.08	1728		0	0	0	1600	1600	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Toluene	A	ppbv	1.4	2240		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10984	10984	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	12262.4	12262.4	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752557	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 6:21:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	11873.6	11873.6	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	12300.8	12300.8	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	7393.6	7393.6	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	3539.2	3539.2	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	5766.4	5766.4	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	6555.2	6555.2	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	3932.8	3932.8	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	6556.8	6556.8	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	1.4725	0		0	0	0	3800	3800	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	28.6272	45803.52		0	0	0	5112	5112	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	8283.2	8283.2	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	10718.4	10718.4	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	16539.2	16539.2	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	6212.8	6212.8	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	4982.4	4982.4	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	10065.6	10065.6	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7366.4	7366.4	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	13630.4	13630.4	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4220.8	4220.8	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	7812.8	7812.8	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	3304	3304	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	36.141	57825.6		0	0	0	5507.2	5507.2	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	7912	7912	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752557	1103389-004B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 6:21:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	3014.4	3014.4	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5764.8	5764.8	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	11.80512	18888.192		0	0	0	6558.4	6558.4	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	17064	17064	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.55508	0		0	0	0	27788.8	27788.8	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.44672	7114.752		0	0	0	5558.4	5558.4	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	41.1015	65762.4		0	0	0	5640	5640	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	8387.2	8387.2	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.85868	2973.888		0	0	0	2753.6	2753.6	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	6816	6816	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	5768	5768	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	10851.2	10851.2	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	5.2766	8442.56		0	0	0	6030.4	6030.4	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	8598.4	8598.4	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	8988.8	8988.8	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5633.6	5633.6	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	4089.6	4089.6	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.6	20160		20000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752558	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 7:02:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Acetone	A	ppbv	1.19	1904		0	0	0	1600	1600	0	0%	0	0	0%	
Benzene	A	ppbv	5.79	9264		0	0	0	1600	1600	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752558	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 7:02:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Cyclohexane	A	ppbv	7.99	12784		0	0	0	1600	1600	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.11	1776		0	0	0	1600	1600	0	0%	0	0	0%	
Heptane	A	ppbv	8.74	13984		0	0	0	1600	1600	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.22	5152		0	0	0	3200	3200	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.75	0		0	0	0	1600	1600	0	0%	0	0	0%	
n-Hexane	A	ppbv	5.28	8448		0	0	0	1600	1600	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.97	0		0	0	0	1600	1600	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Toluene	A	ppbv	12.45	19920		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10984	10984	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	12262.4	12262.4	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752558	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 7:02:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	11873.6	11873.6	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	12300.8	12300.8	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	7393.6	7393.6	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	3539.2	3539.2	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	5766.4	5766.4	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	6555.2	6555.2	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	3932.8	3932.8	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	6556.8	6556.8	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.82625	4522		0	0	0	3800	3800	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	18.49905	29598.48		0	0	0	5112	5112	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	8283.2	8283.2	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	10718.4	10718.4	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	16539.2	16539.2	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	6212.8	6212.8	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	4982.4	4982.4	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	10065.6	10065.6	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7366.4	7366.4	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	13630.4	13630.4	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4220.8	4220.8	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	7812.8	7812.8	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	3304	3304	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	27.50158	44002.528		0	0	0	5507.2	5507.2	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	7912	7912	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752558	1103389-005B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 7:02:00	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	3014.4	3014.4	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5764.8	5764.8	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.81962	7711.392		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	35.82526	57320.416		0	0	0	6558.4	6558.4	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	17064	17064	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	27.96248	44739.968		0	0	0	27788.8	27788.8	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.6055	0		0	0	0	5558.4	5558.4	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	18.612	29779.2		0	0	0	5640	5640	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	8387.2	8387.2	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.21174	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	2753.6	2753.6	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	6816	6816	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	5768	5768	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	10851.2	10851.2	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	46.92405	75078.48		0	0	0	6030.4	6030.4	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	8598.4	8598.4	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	8988.8	8988.8	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5633.6	5633.6	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	4089.6	4089.6	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.81	20496		20000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752559	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 7:43:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Benzene	A	ppbv	2.16	43200		0	0	0	20000	20000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752559	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 7:43:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	7.39	147800		0	0	0	20000	20000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Heptane	A	ppbv	2.89	57800		0	0	0	20000	20000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
n-Hexane	A	ppbv	6.22	124400		0	0	0	20000	20000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	2.16	43200		0	0	0	20000	20000	0	0%	0	0	0%	
Toluene	A	ppbv	2.84	56800		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	137300	137300	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	153280	153280	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752559	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040211	4/2/2011 7:43:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	148420	148420	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	153760	153760	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	92420	92420	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	44240	44240	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	72080	72080	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	58980	58980	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	81940	81940	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	49160	49160	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	81960	81960	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	47500	47500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	6.9012	138024		0	0	0	63900	63900	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	103540	103540	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	133980	133980	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	206740	206740	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	77660	77660	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	62280	62280	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	125820	125820	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	92080	92080	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	170380	170380	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	52760	52760	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	97660	97660	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	41300	41300	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	25.43638	508727.6		0	0	0	68840	68840	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	98900	98900	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752559	1103389-006B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 7:43:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	37680	37680	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	72060	72060	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	86840	86840	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	11.84611	236922.2		0	0	0	81980	81980	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	213300	213300	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	69480	69480	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	21.9255	438510		0	0	0	70500	70500	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	104840	104840	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	86840	86840	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	34420	34420	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	85200	85200	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	72100	72100	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	135640	135640	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	6.36984	127396.8		0	0	0	58980	58980	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	10.70396	214079.2		0	0	0	75380	75380	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	107480	107480	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	112360	112360	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	70420	70420	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51120	51120	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.17	243400		250000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752560	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 8:24:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Benzene	A	ppbv	3.38	67600		0	0	0	20000	20000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752560	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 8:24:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	8.73	174600		0	0	0	20000	20000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Heptane	A	ppbv	3.28	65600		0	0	0	20000	20000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.5	0		0	0	0	40000	40000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
n-Hexane	A	ppbv	8.98	179600		0	0	0	20000	20000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	2.16	43200		0	0	0	20000	20000	0	0%	0	0	0%	
Toluene	A	ppbv	4.05	81000		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	137300	137300	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	153280	153280	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752560	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 8:24:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	148420	148420	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	153760	153760	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	92420	92420	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	44240	44240	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	72080	72080	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	58980	58980	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	81940	81940	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	49160	49160	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	81960	81960	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	47500	47500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	10.7991	215982		0	0	0	63900	63900	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	103540	103540	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	133980	133980	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	206740	206740	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	77660	77660	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	62280	62280	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	125820	125820	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	92080	92080	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	170380	170380	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	52760	52760	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	97660	97660	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	41300	41300	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	30.04866	600973.2		0	0	0	68840	68840	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	98900	98900	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752560	1103389-007B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040211	4/2/2011 8:24:00	20000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	37680	37680	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	72060	72060	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	86840	86840	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	13.44472	268894.4		0	0	0	81980	81980	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	213300	213300	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	4.342	0		0	0	0	347360	347360	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	69480	69480	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	31.6545	633090		0	0	0	70500	70500	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	104840	104840	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	86840	86840	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	34420	34420	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	85200	85200	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	72100	72100	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	135640	135640	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	6.36984	127396.8		0	0	0	58980	58980	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	15.26445	305289		0	0	0	75380	75380	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	107480	107480	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	112360	112360	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	70420	70420	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51120	51120	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.1	242000		250000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752561	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211\	4/2/2011 9:05:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	7.33	293200		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752561	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 9:05:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	27.25	1090000		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.55	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	14.09	563600		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.56	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	25.26	1010400		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.55	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	8.13	325200		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	10.58	423200		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752561	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040211\	4/2/2011 9:05:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	23.41935	936774		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	93.7945	3751780		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752561	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 9:05:00	40000	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.3881	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	57.75491	2310196.4		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	13.54704	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	89.0415	3561660		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.3881	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	23.97537	959014.8		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	39.87602	1595040.8		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.66	506400		500000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752562	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 10:28:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Acetone	A	ppbv	0.56	0		0	0	0	1600	1600	0	0%	0	0	0%	
Benzene	A	ppbv	5.54	8864		0	0	0	1600	1600	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752562	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 10:28:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Cyclohexane	A	ppbv	5.73	9168		0	0	0	1600	1600	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.59	0		0	0	0	1600	1600	0	0%	0	0	0%	
Heptane	A	ppbv	4.57	7312		0	0	0	1600	1600	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.1	3360		0	0	0	3200	3200	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.1	1760		0	0	0	1600	1600	0	0%	0	0	0%	
n-Hexane	A	ppbv	4.31	6896		0	0	0	1600	1600	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.82	0		0	0	0	1600	1600	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	1.6	2560		0	0	0	1600	1600	0	0%	0	0	0%	
Toluene	A	ppbv	6.52	10432		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10984	10984	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	12262.4	12262.4	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752562	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 10:28:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	11873.6	11873.6	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	12300.8	12300.8	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	7393.6	7393.6	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	3539.2	3539.2	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	5766.4	5766.4	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	6555.2	6555.2	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	3932.8	3932.8	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	6556.8	6556.8	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	1.33	0		0	0	0	3800	3800	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	17.7003	28320.48		0	0	0	5112	5112	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	8283.2	8283.2	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	10718.4	10718.4	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	16539.2	16539.2	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	6212.8	6212.8	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	4982.4	4982.4	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	10065.6	10065.6	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7366.4	7366.4	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	13630.4	13630.4	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4220.8	4220.8	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	7812.8	7812.8	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	3304	3304	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	19.72266	31556.256		0	0	0	5507.2	5507.2	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	7912	7912	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752562	1103389-012B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 10:28:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	3014.4	3014.4	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5764.8	5764.8	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.56178	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	18.73243	29971.888		0	0	0	6558.4	6558.4	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	17064	17064	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	18.2364	29178.24		0	0	0	27788.8	27788.8	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.8214	6114.24		0	0	0	5558.4	5558.4	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	15.19275	24308.4		0	0	0	5640	5640	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	8387.2	8387.2	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	3.56044	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	2753.6	2753.6	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	6816	6816	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	5768	5768	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	10851.2	10851.2	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	4.7184	7549.44		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	24.57388	39318.208		0	0	0	6030.4	6030.4	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	8598.4	8598.4	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	8988.8	8988.8	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5633.6	5633.6	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	4089.6	4089.6	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.51	20016		20000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752563	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\4/2/2011 11:09:0		1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Benzene	A	ppbv	0.95	0		0	0	0	1600	1600	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752563	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211\4/2/2011 11:09:0		1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Cyclohexane	A	ppbv	12.66	20256		0	0	0	1600	1600	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Heptane	A	ppbv	1.47	2352		0	0	0	1600	1600	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	3200	3200	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
n-Hexane	A	ppbv	6.66	10656		0	0	0	1600	1600	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10984	10984	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	12262.4	12262.4	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752563	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\4/2/2011 11:09:0		1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	11873.6	11873.6	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	12300.8	12300.8	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	7393.6	7393.6	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	3539.2	3539.2	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	5766.4	5766.4	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	6555.2	6555.2	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	3932.8	3932.8	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	6556.8	6556.8	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	3800	3800	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	3.03525	0		0	0	0	5112	5112	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	8283.2	8283.2	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	10718.4	10718.4	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	16539.2	16539.2	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	6212.8	6212.8	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	4982.4	4982.4	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	10065.6	10065.6	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7366.4	7366.4	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	13630.4	13630.4	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4220.8	4220.8	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	7812.8	7812.8	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	3304	3304	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	43.57572	69721.152		0	0	0	5507.2	5507.2	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	7912	7912	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752563	1103389-014B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 11:09:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	3014.4	3014.4	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5764.8	5764.8	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	6.02553	9640.848		0	0	0	6558.4	6558.4	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	17064	17064	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	27788.8	27788.8	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	5558.4	5558.4	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	23.4765	37562.4		0	0	0	5640	5640	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	8387.2	8387.2	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	2753.6	2753.6	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	6816	6816	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	5768	5768	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	10851.2	10851.2	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	6030.4	6030.4	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	8598.4	8598.4	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	8988.8	8988.8	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5633.6	5633.6	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	4089.6	4089.6	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.41	19856		20000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752564	1103389-016B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040211\	4/2/2011 11:51:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Benzene	A	ppbv	2.43	3888		0	0	0	1600	1600	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752564	1103389-016B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040211	4/2/2011 11:51:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.9	4640		0	0	0	1600	1600	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	3200	3200	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.33	3728		0	0	0	1600	1600	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Toluene	A	ppbv	0.89	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10984	10984	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	12262.4	12262.4	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752564	1103389-016B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/2/2011 11:51:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	11873.6	11873.6	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	12300.8	12300.8	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	7393.6	7393.6	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	3539.2	3539.2	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	5766.4	5766.4	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	6555.2	6555.2	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	3932.8	3932.8	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	6556.8	6556.8	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	3800	3800	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	7.76385	12422.16		0	0	0	5112	5112	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	8283.2	8283.2	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	10718.4	10718.4	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	16539.2	16539.2	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	6212.8	6212.8	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	4982.4	4982.4	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	10065.6	10065.6	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7366.4	7366.4	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	13630.4	13630.4	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4220.8	4220.8	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	7812.8	7812.8	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	3304	3304	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	9.9818	15970.88		0	0	0	5507.2	5507.2	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	7912	7912	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752564	1103389-016B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211\	4/2/2011 11:51:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	3014.4	3014.4	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5764.8	5764.8	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	6558.4	6558.4	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	17064	17064	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	27788.8	27788.8	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	5558.4	5558.4	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	8.21325	13141.2		0	0	0	5640	5640	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	8387.2	8387.2	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	2753.6	2753.6	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	6816	6816	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	5768	5768	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	10851.2	10851.2	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	3.35441	0		0	0	0	6030.4	6030.4	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	8598.4	8598.4	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	8988.8	8988.8	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5633.6	5633.6	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	4089.6	4089.6	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.49	19984		20000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752565	1103389-017B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211'4/3/2011	12:33:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Butanone	A	ppbv	0.67	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Acetone	A	ppbv	1.29	2064		0	0	0	1600	1600	0	0%	0	0	0%	
Benzene	A	ppbv	8.29	13264		0	0	0	1600	1600	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752565	1103389-017B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/3/2011 12:33:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Cyclohexane	A	ppbv	9.96	15936		0	0	0	1600	1600	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.6	2560		0	0	0	1600	1600	0	0%	0	0	0%	
Heptane	A	ppbv	11.05	17680		0	0	0	1600	1600	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	4.56	7296		0	0	0	3200	3200	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
n-Hexane	A	ppbv	7.14	11424		0	0	0	1600	1600	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.33	2128		0	0	0	1600	1600	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Toluene	A	ppbv	18.17	29072		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1600	1600	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10984	10984	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	12262.4	12262.4	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	8729.6	8729.6	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752565	1103389-017B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211	4/3/2011 12:33:0	1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	11873.6	11873.6	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	12300.8	12300.8	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6475.2	6475.2	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	7393.6	7393.6	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	3539.2	3539.2	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	9619.2	9619.2	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	5766.4	5766.4	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	1.97583	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	6555.2	6555.2	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	3932.8	3932.8	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	6556.8	6556.8	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	3.06375	4902		0	0	0	3800	3800	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	26.48655	42378.48		0	0	0	5112	5112	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	8283.2	8283.2	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	10718.4	10718.4	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	16539.2	16539.2	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	6212.8	6212.8	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	4982.4	4982.4	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	10065.6	10065.6	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7366.4	7366.4	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	13630.4	13630.4	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4220.8	4220.8	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	7812.8	7812.8	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	3304	3304	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	34.28232	54851.712		0	0	0	5507.2	5507.2	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	7912	7912	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752565	1103389-017B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040211'4/3/2011 12:33:0		1600	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	3014.4	3014.4	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5764.8	5764.8	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.9472	11115.52		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	45.29395	72470.32		0	0	0	6558.4	6558.4	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	17064	17064	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	39.59904	63358.464		0	0	0	27788.8	27788.8	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	5558.4	5558.4	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	25.1685	40269.6		0	0	0	5640	5640	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	8387.2	8387.2	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	5.77486	9239.776		0	0	0	6947.2	6947.2	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	7865.6	7865.6	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	2753.6	2753.6	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	6816	6816	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	5768	5768	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	10851.2	10851.2	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	4718.4	4718.4	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	68.48273	109572.368		0	0	0	6030.4	6030.4	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6344	6344	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	7262.4	7262.4	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	8598.4	8598.4	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	8988.8	8988.8	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	5633.6	5633.6	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	4089.6	4089.6	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.49	19984		20000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752566	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040211'4/3/2011 1:14:00		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752566	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\1\DATA\040211\	4/3/2011 1:14:00	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.04	1.04		0.96	0	0	1	1	0	108%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.9	0.9		1	0	0	1	1	0	90%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1	1		0.97	0	0	1	1	0	103%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.06	1.06		0.99	0	0	1	1	0	107%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.74	0.74		0.91	0	0	1	1	0	81%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.99	0.99		0.97	0	0	1	1	0	102%	70	130	0%	
1,2-Dichloroethane	A	ppbv	1.07	1.07		0.97	0	0	1	1	0	110%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.96	0.96		0.98	0	0	1	1	0	98%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.04	1.04		0.97	0	0	1	1	0	107%	70	130	0%	
1,3-Butadiene	A	ppbv	1.09	1.09		0.98	0	0	1	1	0	111%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	1.01	1.01		0.97	0	0	1	1	0	104%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1.02	1.02		0.96	0	0	1	1	0	106%	70	130	0%	
1,4-Dioxane	A	ppbv	0.67	0.67		0.96	0	0	1	1	0	70%	70	130	0%	S
2-Butanone	A	ppbv	0.93	0.93		0.99	0	0	1	1	0	94%	70	130	0%	
2-Hexanone	A	ppbv	0.53	0.53		0.98	0	0	1	1	0	54%	70	130	0%	S
2-Propanol	A	ppbv	0.72	0.72		1.01	0	0	1	1	0	71%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.61	0.61		1	0	0	1	1	0	61%	70	130	0%	S
Acetone	A	ppbv	0.99	0.99		1	0	0	1	1	0	99%	70	130	0%	
Benzene	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Benzyl chloride	A	ppbv	0.9	0.9		0.97	0	0	1	1	0	93%	70	130	0%	
Bromodichloromethane	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
Bromoform	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
Bromomethane	A	ppbv	1	1		0.93	0	0	1	1	0	108%	70	130	0%	
Carbon disulfide	A	ppbv	1.04	1.04		0.97	0	0	1	1	0	107%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.01	1.01		0.95	0	0	1	1	0	106%	70	130	0%	
Chlorobenzene	A	ppbv	1.01	1.01		0.99	0	0	1	1	0	102%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.95	0.95		0.98	0	0	1	1	0	97%	70	130	0%	
Chloroethane	A	ppbv	0.96	0.96		0.92	0	0	1	1	0	104%	70	130	0%	
Chloroform	A	ppbv	1.08	1.08		0.98	0	0	1	1	0	110%	70	130	0%	
Chloromethane	A	ppbv	1.18	1.18		0.95	0	0	1	1	0	124%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752566	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040211	4/3/2011 1:14:00	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.9	0.9		0.95	0	0	1	1	0	95%	70	130	0%	
Cyclohexane	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Ethanol	A	ppbv	0.64	0.64		0.92	0	0	1	1	0	70%	70	130	0%	S
Ethyl acetate	A	ppbv	0.82	0.82		0.98	0	0	1	1	0	84%	70	130	0%	
Ethylbenzene	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Heptane	A	ppbv	0.97	0.97		0.99	0	0	1	1	0	98%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.9	0.9		0.94	0	0	1	1	0	96%	70	130	0%	
m,p-Xylene	A	ppbv	1.99	1.99		1.92	0	0	2	2	0	104%	70	130	0%	
Methylene chloride	A	ppbv	1.12	1.12		1	0	0	1	1	0	112%	70	130	0%	
n-Hexane	A	ppbv	1.02	1.02		1.01	0	0	1	1	0	101%	70	130	0%	
Naphthalene	A	ppbv	0.7	0.7		0.92	0	0	1	1	0	76%	70	130	0%	
o-Xylene	A	ppbv	1	1		1	0	0	1	1	0	100%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Propylene	A	ppbv	1.08	1.08		1.02	0	0	1	1	0	106%	70	130	0%	
Styrene	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.02	1.02		0.99	0	0	1	1	0	103%	70	130	0%	
Tetrachloroethene	A	ppbv	1.03	1.03		0.96	0	0	1	1	0	107%	70	130	0%	
Tetrahydrofuran	A	ppbv	0.92	0.92		1	0	0	1	1	0	92%	70	130	0%	
Toluene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.83	0.83		0.91	0	0	1	1	0	91%	70	130	0%	
Trichloroethene	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.05	1.05		0.96	0	0	1	1	0	109%	70	130	0%	
Vinyl acetate	A	ppbv	0.94	0.94		0.99	0	0	1	1	0	95%	70	130	0%	
Vinyl chloride	A	ppbv	1.05	1.05		0.94	0	0	1	1	0	112%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.67424	5.67424		5.23776	0	0	5.456	5.456	0	108%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.1785	6.1785		6.865	0	0	6.865	6.865	0	90%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.81728	7.81728		7.51072	0	0	7.664	7.664	0	104%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.34688	5.34688		5.34688	0	0	5.456	5.456	0	100%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	4.047	4.047		3.92559	0	0	4.047	4.047	0	103%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.2029	4.2029		3.92535	0	0	3.965	3.965	0	107%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.49154	5.49154		6.75311	0	0	7.421	7.421	0	81%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752566	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040211\4/3/2011 1:14:00		1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.86684	4.86684		4.81768	0	0	4.916	4.916	0	101%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.3036	7.3036		7.38048	0	0	7.688	7.688	0	99%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.95188	5.95188		5.83164	0	0	6.012	6.012	0	102%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	4.33029	4.33029		3.92559	0	0	4.047	4.047	0	110%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.43616	4.43616		4.52858	0	0	4.621	4.621	0	98%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	5.11264	5.11264		4.76852	0	0	4.916	4.916	0	107%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.41108	2.41108		2.16776	0	0	2.212	2.212	0	111%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	6.07212	6.07212		5.83164	0	0	6.012	6.012	0	104%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	6.13224	6.13224		5.77152	0	0	6.012	6.012	0	106%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	2.41468	2.41468		3.45984	0	0	3.604	3.604	0	70%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	2.74257	2.74257		2.91951	0	0	2.949	2.949	0	94%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.17141	2.17141		4.01506	0	0	4.097	4.097	0	54%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	1.76976	1.76976		2.48258	0	0	2.458	2.458	0	71%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.49978	2.49978		4.098	0	0	4.098	4.098	0	61%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.35125	2.35125		2.375	0	0	2.375	2.375	0	99%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.09915	3.09915		3.0672	0	0	3.195	3.195	0	101%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	4.6593	4.6593		5.02169	0	0	5.177	5.177	0	93%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.36405	6.36405		6.43104	0	0	6.699	6.699	0	99%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	9.82015	9.82015		9.92352	0	0	10.337	10.337	0	99%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	3.883	3.883		3.61119	0	0	3.883	3.883	0	108%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.23856	3.23856		3.02058	0	0	3.114	3.114	0	107%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	6.35391	6.35391		5.97645	0	0	6.291	6.291	0	106%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.65004	4.65004		4.55796	0	0	4.604	4.604	0	102%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	8.09305	8.09305		8.34862	0	0	8.519	8.519	0	97%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.53248	2.53248		2.42696	0	0	2.638	2.638	0	104%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	5.27364	5.27364		4.78534	0	0	4.883	4.883	0	110%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.4367	2.4367		1.96175	0	0	2.065	2.065	0	124%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.965	3.965		3.8857	0	0	3.965	3.965	0	102%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.0851	4.0851		4.31205	0	0	4.539	4.539	0	95%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.442	3.442		3.37316	0	0	3.442	3.442	0	102%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.945	4.945		4.5494	0	0	4.945	4.945	0	109%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.20576	1.20576		1.73328	0	0	1.884	1.884	0	70%	70	130	0%	S
Ethyl acetate-ug/m3	C	µg/m³	2.95446	2.95446		3.53094	0	0	3.603	3.603	0	84%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.342	4.342		4.25516	0	0	4.342	4.342	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752566	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\1\DATA\040211	4/3/2011 1:14:00	1	R39618		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	3.97603	3.97603		4.05801	0	0	4.099	4.099	0	98%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	9.5985	9.5985		10.0251	0	0	10.665	10.665	0	96%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	17.28116	17.28116		16.67328	0	0	17.368	17.368	0	104%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.89088	3.89088		3.474	0	0	3.474	3.474	0	112%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	3.5955	3.5955		3.56025	0	0	3.525	3.525	0	101%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	3.6694	3.6694		4.82264	0	0	5.242	5.242	0	76%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.342	4.342		4.342	0	0	4.342	4.342	0	100%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.81768	4.81768		4.81768	0	0	4.916	4.916	0	100%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.85868	1.85868		1.75542	0	0	1.721	1.721	0	106%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.26	4.26		4.1748	0	0	4.26	4.26	0	102%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.6771	3.6771		3.56895	0	0	3.605	3.605	0	103%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.98546	6.98546		6.51072	0	0	6.782	6.782	0	107%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.71308	2.71308		2.949	0	0	2.949	2.949	0	92%	70	130	0%	
Toluene-ug/m3	C	µg/m³	3.65593	3.65593		3.69362	0	0	3.769	3.769	0	99%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.0443	4.0443		3.8857	0	0	3.965	3.965	0	104%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.76737	3.76737		4.13049	0	0	4.539	4.539	0	91%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.15904	5.15904		5.15904	0	0	5.374	5.374	0	100%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.8989	5.8989		5.39328	0	0	5.618	5.618	0	109%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	3.30974	3.30974		3.48579	0	0	3.521	3.521	0	95%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	2.6838	2.6838		2.40264	0	0	2.556	2.556	0	112%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.94	11.94		12.5	0	0	0	0	0	96%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39639

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752960	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040511'4/5/2011 10:02:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.7	0.7		0	0	0	0	0	0	0%	0	2	0%	
174	M		87.5	87.5		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.4	7.4		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.3	98.3		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		16.9	16.9		0	0	0	0	0	0	0%	8	40	0%	
75	M		45.4	45.4		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511'4/5/2011 11:27:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	8.43	8.43		10	0	0	1	1	0	84%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.38	1.38		4.17	0	0	1	1	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	8.7	8.7		9.8	0	0	1	1	0	89%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	7.72	7.72		10	0	0	1	1	0	77%	70	130	0%	
1,1-Dichloroethane	A	ppbv	8.75	8.75		10	0	0	1	1	0	88%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.18	8.18		10	0	0	1	1	0	82%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	6.97	6.97		10.6	0	0	1	1	0	66%	70	130	0%	S
1,2,4-Trimethylbenzene	A	ppbv	7.58	7.58		10	0	0	1	1	0	76%	70	130	0%	
1,2-Dibromoethane	A	ppbv	6.7	6.7		10	0	0	1	1	0	67%	70	130	0%	S
1,2-Dichlorobenzene	A	ppbv	7.55	7.55		10	0	0	1	1	0	76%	70	130	0%	
1,2-Dichloroethane	A	ppbv	8.01	8.01		10	0	0	1	1	0	80%	70	130	0%	
1,2-Dichloropropane	A	ppbv	8.03	8.03		10	0	0	1	1	0	80%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	7.56	7.56		10	0	0	1	1	0	76%	70	130	0%	
1,3-Butadiene	A	ppbv	9.26	9.26		10	0	0	1	1	0	93%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	7.73	7.73		10	0	0	1	1	0	77%	70	130	0%	

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Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511	4/5/2011 11:27:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	7.77	7.77		10.2	0	0	1	1	0	76%	70	130	0%	
1,4-Dioxane	A	ppbv	8.14	8.14		10	0	0	1	1	0	81%	70	130	0%	
2-Butanone	A	ppbv	8.25	8.25		10.2	0	0	1	1	0	81%	70	130	0%	
2-Hexanone	A	ppbv	12.71	12.71		10	0	0	1	1	0	127%	70	130	0%	
2-Propanol	A	ppbv	9.57	9.57		10	0	0	1	1	0	96%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	9.47	9.47		10.6	0	0	1	1	0	89%	70	130	0%	
Acetone	A	ppbv	7.64	7.64		10	0	0	1	1	0	76%	70	130	0%	
Benzene	A	ppbv	7.85	7.85		10	0	0	1	1	0	79%	70	130	0%	
Benzyl chloride	A	ppbv	2.35	2.35		5.4	0	0	1	1	0	44%	70	130	0%	S
Bromodichloromethane	A	ppbv	8.54	8.54		10.2	0	0	1	1	0	84%	70	130	0%	
Bromoform	A	ppbv	7.78	7.78		9.8	0	0	1	1	0	79%	70	130	0%	
Bromomethane	A	ppbv	5.07	5.07		10	0	0	1	1	0	51%	70	130	0%	S
Carbon disulfide	A	ppbv	8.51	8.51		10	0	0	1	1	0	85%	70	130	0%	
Carbon tetrachloride	A	ppbv	8.55	8.55		10	0	0	1	1	0	86%	70	130	0%	
Chlorobenzene	A	ppbv	7.71	7.71		10	0	0	1	1	0	77%	70	130	0%	
Chlorodibromomethane	A	ppbv	8.25	8.25		10	0	0	1	1	0	83%	70	130	0%	
Chloroethane	A	ppbv	7.16	7.16		10	0	0	1	1	0	72%	70	130	0%	
Chloroform	A	ppbv	8.51	8.51		10.2	0	0	1	1	0	83%	70	130	0%	
Chloromethane	A	ppbv	11.52	11.52		10.2	0	0	1	1	0	113%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	8.68	8.68		10	0	0	1	1	0	87%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	7.69	7.69		10.6	0	0	1	1	0	73%	70	130	0%	
Cyclohexane	A	ppbv	8.41	8.41		10.2	0	0	1	1	0	82%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	8.76	8.76		10	0	0	1	1	0	88%	70	130	0%	
Ethanol	A	ppbv	9.99	9.99		12.2	0	0	1	1	0	82%	70	130	0%	
Ethyl acetate	A	ppbv	8.22	8.22		10	0	0	1	1	0	82%	70	130	0%	
Ethylbenzene	A	ppbv	8.17	8.17		10	0	0	1	1	0	82%	70	130	0%	
Heptane	A	ppbv	8.55	8.55		10	0	0	1	1	0	86%	70	130	0%	
Hexachlorobutadiene	A	ppbv	5.56	5.56		9.8	0	0	1	1	0	57%	70	130	0%	S
m,p-Xylene	A	ppbv	15.54	15.54		20	0	0	2	2	0	78%	70	130	0%	
Methylene chloride	A	ppbv	8.15	8.15		9.8	0	0	1	1	0	83%	70	130	0%	
n-Hexane	A	ppbv	7.96	7.96		10.2	0	0	1	1	0	78%	70	130	0%	
Naphthalene	A	ppbv	7.35	7.35		10	0	0	1	1	0	74%	70	130	0%	
o-Xylene	A	ppbv	8.2	8.2		10	0	0	1	1	0	82%	70	130	0%	
p-Ethyltoluene	A	ppbv	7.42	7.42		10.6	0	0	1	1	0	70%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511\4/5/2011 11:27:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	10.13	10.13		10	0	0	1	1	0	101%	70	130	0%	
Styrene	A	ppbv	8.52	8.52		10	0	0	1	1	0	85%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	7.35	7.35		10	0	0	1	1	0	74%	70	130	0%	
Tetrachloroethene	A	ppbv	8.65	8.65		10	0	0	1	1	0	87%	70	130	0%	
Tetrahydrofuran	A	ppbv	8.98	8.98		10	0	0	1	1	0	90%	70	130	0%	
Toluene	A	ppbv	8.37	8.37		10	0	0	1	1	0	84%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	8.4	8.4		10	0	0	1	1	0	84%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	7.04	7.04		9.4	0	0	1	1	0	75%	70	130	0%	
Trichloroethene	A	ppbv	14.45	14.45		13.6	0	0	1	1	0	106%	70	130	0%	
Trichlorofluoromethane	A	ppbv	8.85	8.85		10	0	0	1	1	0	89%	70	130	0%	
Vinyl acetate	A	ppbv	6.64	6.64		10	0	0	1	1	0	66%	70	130	0%	S
Vinyl chloride	A	ppbv	9.31	9.31		10	0	0	1	1	0	93%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	45.99408	45.99408		54.56	0	0	5.456	5.456	0	84%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	9.4737	9.4737		28.62705	0	0	6.865	6.865	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	66.6768	66.6768		75.1072	0	0	7.664	7.664	0	89%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	42.12032	42.12032		54.56	0	0	5.456	5.456	0	77%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	35.41125	35.41125		40.47	0	0	4.047	4.047	0	88%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	32.4337	32.4337		39.65	0	0	3.965	3.965	0	82%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	51.72437	51.72437		78.6626	0	0	7.421	7.421	0	66%	70	130	0%	S
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	37.26328	37.26328		49.16	0	0	4.916	4.916	0	76%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	51.5096	51.5096		76.88	0	0	7.688	7.688	0	67%	70	130	0%	S
1,2-Dichlorobenzene-ug/m3	C	µg/m³	45.3906	45.3906		60.12	0	0	6.012	6.012	0	76%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	32.41647	32.41647		40.47	0	0	4.047	4.047	0	80%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	37.10663	37.10663		46.21	0	0	4.621	4.621	0	80%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	37.16496	37.16496		49.16	0	0	4.916	4.916	0	76%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	20.48312	20.48312		22.12	0	0	2.212	2.212	0	93%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	46.47276	46.47276		60.12	0	0	6.012	6.012	0	77%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	46.71324	46.71324		61.3224	0	0	6.012	6.012	0	76%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	29.33656	29.33656		36.04	0	0	3.604	3.604	0	81%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	24.32925	24.32925		30.0798	0	0	2.949	2.949	0	81%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	52.07287	52.07287		40.97	0	0	4.097	4.097	0	127%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	23.52306	23.52306		24.58	0	0	2.458	2.458	0	96%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	38.80806	38.80806		43.4388	0	0	4.098	4.098	0	89%	70	130	0%	
Acetone-ug/m3	C	µg/m³	18.145	18.145		23.75	0	0	2.375	2.375	0	76%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511\4/5/2011 11:27:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	25.08075	25.08075		31.95	0	0	3.195	3.195	0	79%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	12.16595	12.16595		27.9558	0	0	5.177	5.177	0	44%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	57.20946	57.20946		68.3298	0	0	6.699	6.699	0	84%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	80.42186	80.42186		101.3026	0	0	10.337	10.337	0	79%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	19.68681	19.68681		38.83	0	0	3.883	3.883	0	51%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	26.50014	26.50014		31.14	0	0	3.114	3.114	0	85%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	53.78805	53.78805		62.91	0	0	6.291	6.291	0	86%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	35.49684	35.49684		46.04	0	0	4.604	4.604	0	77%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	70.28175	70.28175		85.19	0	0	8.519	8.519	0	83%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	18.88808	18.88808		26.38	0	0	2.638	2.638	0	72%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	41.55433	41.55433		49.8066	0	0	4.883	4.883	0	83%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	23.7888	23.7888		21.063	0	0	2.065	2.065	0	113%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	34.4162	34.4162		39.65	0	0	3.965	3.965	0	87%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	34.90491	34.90491		48.1134	0	0	4.539	4.539	0	73%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	28.94722	28.94722		35.1084	0	0	3.442	3.442	0	82%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	43.3182	43.3182		49.45	0	0	4.945	4.945	0	88%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	18.82116	18.82116		22.9848	0	0	1.884	1.884	0	82%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	29.61666	29.61666		36.03	0	0	3.603	3.603	0	82%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	35.47414	35.47414		43.42	0	0	4.342	4.342	0	82%	70	130	0%	
Heptane-ug/m3	C	µg/m³	35.04645	35.04645		40.99	0	0	4.099	4.099	0	86%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	59.2974	59.2974		104.517	0	0	10.665	10.665	0	57%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	134.94936	134.94936		173.68	0	0	17.368	17.368	0	78%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	28.3131	28.3131		34.0452	0	0	3.474	3.474	0	83%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	28.059	28.059		35.955	0	0	3.525	3.525	0	78%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	38.5287	38.5287		52.42	0	0	5.242	5.242	0	74%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	35.6044	35.6044		43.42	0	0	4.342	4.342	0	82%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	36.47672	36.47672		52.1096	0	0	4.916	4.916	0	70%	70	130	0%	
Propylene-ug/m3	C	µg/m³	17.43373	17.43373		17.21	0	0	1.721	1.721	0	101%	70	130	0%	
Styrene-ug/m3	C	µg/m³	36.2952	36.2952		42.6	0	0	4.26	4.26	0	85%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	26.49675	26.49675		36.05	0	0	3.605	3.605	0	74%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	58.6643	58.6643		67.82	0	0	6.782	6.782	0	87%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	26.48202	26.48202		29.49	0	0	2.949	2.949	0	90%	70	130	0%	
Toluene-ug/m3	C	µg/m³	31.54653	31.54653		37.69	0	0	3.769	3.769	0	84%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	33.306	33.306		39.65	0	0	3.965	3.965	0	84%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511\4/5/2011 11:27:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	31.95456	31.95456		42.6666	0	0	4.539	4.539	0	75%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	77.6543	77.6543		73.0864	0	0	5.374	5.374	0	106%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	49.7193	49.7193		56.18	0	0	5.618	5.618	0	89%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	23.37944	23.37944		35.21	0	0	3.521	3.521	0	66%	70	130	0%	S
Vinyl chloride-ug/m3	C	µg/m³	23.79636	23.79636		25.56	0	0	2.556	2.556	0	93%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.34	12.34		12.5	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511\4/5/2011 12:10:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.89	0.89		1	0	0	1	1	0	89%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.95	0.95		0.98	0	0	1	1	0	97%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.95	0.95		0.97	0	0	1	1	0	98%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.04	1.04		0.99	0	0	1	1	0	105%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.76	0.76		0.91	0	0	1	1	0	84%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.96	0.96		0.97	0	0	1	1	0	99%	70	130	0%	
1,2-Dichloroethane	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.94	0.94		0.98	0	0	1	1	0	96%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.01	1.01		0.97	0	0	1	1	0	104%	70	130	0%	
1,3-Butadiene	A	ppbv	1.07	1.07		0.98	0	0	1	1	0	109%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
1,4-Dioxane	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
2-Butanone	A	ppbv	0.89	0.89		0.99	0	0	1	1	0	90%	70	130	0%	
2-Hexanone	A	ppbv	0.71	0.71		0.98	0	0	1	1	0	72%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511\	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	0.81	0.81		1.01	0	0	1	1	0	80%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.64	0.64		1	0	0	1	1	0	64%	70	130	0%	S
Acetone	A	ppbv	0.99	0.99		1	0	0	1	1	0	99%	70	130	0%	
Benzene	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
Benzyl chloride	A	ppbv	0.84	0.84		0.97	0	0	1	1	0	87%	70	130	0%	
Bromodichloromethane	A	ppbv	0.93	0.93		0.96	0	0	1	1	0	97%	70	130	0%	
Bromoform	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
Bromomethane	A	ppbv	0.94	0.94		0.93	0	0	1	1	0	101%	70	130	0%	
Carbon disulfide	A	ppbv	1	1		0.97	0	0	1	1	0	103%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.95	0.95		0.95	0	0	1	1	0	100%	70	130	0%	
Chlorobenzene	A	ppbv	0.99	0.99		0.99	0	0	1	1	0	100%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.93	0.93		0.98	0	0	1	1	0	95%	70	130	0%	
Chloroethane	A	ppbv	0.91	0.91		0.92	0	0	1	1	0	99%	70	130	0%	
Chloroform	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Chloromethane	A	ppbv	1.03	1.03		0.95	0	0	1	1	0	108%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	0.94	0.94		0.98	0	0	1	1	0	96%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.89	0.89		0.95	0	0	1	1	0	94%	70	130	0%	
Cyclohexane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	0.94	0.94		0.92	0	0	1	1	0	102%	70	130	0%	
Ethanol	A	ppbv	0.97	0.97		0.92	0	0	1	1	0	105%	70	130	0%	
Ethyl acetate	A	ppbv	0.78	0.78		0.98	0	0	1	1	0	80%	70	130	0%	
Ethylbenzene	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
Heptane	A	ppbv	1.01	1.01		0.99	0	0	1	1	0	102%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.82	0.82		0.94	0	0	1	1	0	87%	70	130	0%	
m,p-Xylene	A	ppbv	1.96	1.96		1.92	0	0	2	2	0	102%	70	130	0%	
Methylene chloride	A	ppbv	1.08	1.08		1	0	0	1	1	0	108%	70	130	0%	
n-Hexane	A	ppbv	0.98	0.98		1.01	0	0	1	1	0	97%	70	130	0%	
Naphthalene	A	ppbv	0.86	0.86		0.92	0	0	1	1	0	93%	70	130	0%	
o-Xylene	A	ppbv	1	1		1	0	0	1	1	0	100%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Propylene	A	ppbv	1.07	1.07		1.02	0	0	1	1	0	105%	70	130	0%	
Styrene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	0.97	0.97		0.99	0	0	1	1	0	98%	70	130	0%	
Tetrachloroethene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511\4/5/2011 12:10:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	0.88	0.88		1	0	0	1	1	0	88%	70	130	0%	
Toluene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.83	0.83		0.91	0	0	1	1	0	91%	70	130	0%	
Trichloroethene	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
Trichlorofluoromethane	A	ppbv	0.99	0.99		0.96	0	0	1	1	0	103%	70	130	0%	
Vinyl acetate	A	ppbv	0.85	0.85		0.99	0	0	1	1	0	86%	70	130	0%	
Vinyl chloride	A	ppbv	1.02	1.02		0.94	0	0	1	1	0	109%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.34688	5.34688		5.23776	0	0	5.456	5.456	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.10985	6.10985		6.865	0	0	6.865	6.865	0	89%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.43408	7.43408		7.51072	0	0	7.664	7.664	0	99%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.1832	5.1832		5.34688	0	0	5.456	5.456	0	97%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.84465	3.84465		3.92559	0	0	4.047	4.047	0	98%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.1236	4.1236		3.92535	0	0	3.965	3.965	0	105%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.63996	5.63996		6.75311	0	0	7.421	7.421	0	84%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.81768	0	0	4.916	4.916	0	99%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.22672	7.22672		7.38048	0	0	7.688	7.688	0	98%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.77152	5.77152		5.83164	0	0	6.012	6.012	0	99%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	3.96606	3.96606		3.92559	0	0	4.047	4.047	0	101%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.34374	4.34374		4.52858	0	0	4.621	4.621	0	96%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.96516	4.96516		4.76852	0	0	4.916	4.916	0	104%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.36684	2.36684		2.16776	0	0	2.212	2.212	0	109%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.89176	5.89176		5.83164	0	0	6.012	6.012	0	101%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	6.012	6.012		5.77152	0	0	6.012	6.012	0	104%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	3.38776	3.38776		3.45984	0	0	3.604	3.604	0	98%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	2.62461	2.62461		2.91951	0	0	2.949	2.949	0	90%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.90887	2.90887		4.01506	0	0	4.097	4.097	0	72%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	1.99098	1.99098		2.48258	0	0	2.458	2.458	0	80%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.62272	2.62272		4.098	0	0	4.098	4.098	0	64%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.35125	2.35125		2.375	0	0	2.375	2.375	0	99%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.03525	3.03525		3.0672	0	0	3.195	3.195	0	99%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	4.34868	4.34868		5.02169	0	0	5.177	5.177	0	87%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.23007	6.23007		6.43104	0	0	6.699	6.699	0	97%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	9.92352	9.92352		9.92352	0	0	10.337	10.337	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511\4/5/2011 12:10:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	3.65002	3.65002		3.61119	0	0	3.883	3.883	0	101%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.114	3.114		3.02058	0	0	3.114	3.114	0	103%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	5.97645	5.97645		5.97645	0	0	6.291	6.291	0	100%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.55796	4.55796		4.55796	0	0	4.604	4.604	0	100%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	7.92267	7.92267		8.34862	0	0	8.519	8.519	0	95%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.40058	2.40058		2.42696	0	0	2.638	2.638	0	99%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	4.883	4.883		4.78534	0	0	4.883	4.883	0	102%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.12695	2.12695		1.96175	0	0	2.065	2.065	0	108%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.7271	3.7271		3.8857	0	0	3.965	3.965	0	96%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.03971	4.03971		4.31205	0	0	4.539	4.539	0	94%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.37316	3.37316		3.37316	0	0	3.442	3.442	0	100%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.6483	4.6483		4.5494	0	0	4.945	4.945	0	102%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.82748	1.82748		1.73328	0	0	1.884	1.884	0	105%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.81034	2.81034		3.53094	0	0	3.603	3.603	0	80%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.29858	4.29858		4.25516	0	0	4.342	4.342	0	101%	70	130	0%	
Heptane-ug/m3	C	µg/m³	4.13999	4.13999		4.05801	0	0	4.099	4.099	0	102%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	8.7453	8.7453		10.0251	0	0	10.665	10.665	0	87%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	17.02064	17.02064		16.67328	0	0	17.368	17.368	0	102%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.75192	3.75192		3.474	0	0	3.474	3.474	0	108%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	3.4545	3.4545		3.56025	0	0	3.525	3.525	0	97%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	4.50812	4.50812		4.82264	0	0	5.242	5.242	0	93%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.342	4.342		4.342	0	0	4.342	4.342	0	100%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.81768	4.81768		4.81768	0	0	4.916	4.916	0	100%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.84147	1.84147		1.75542	0	0	1.721	1.721	0	105%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.1322	4.1322		4.1748	0	0	4.26	4.26	0	99%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.49685	3.49685		3.56895	0	0	3.605	3.605	0	98%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.782	6.782		6.51072	0	0	6.782	6.782	0	104%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.59512	2.59512		2.949	0	0	2.949	2.949	0	88%	70	130	0%	
Toluene-ug/m3	C	µg/m³	3.65593	3.65593		3.69362	0	0	3.769	3.769	0	99%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	3.92535	3.92535		3.8857	0	0	3.965	3.965	0	101%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.76737	3.76737		4.13049	0	0	4.539	4.539	0	91%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.05156	5.05156		5.15904	0	0	5.374	5.374	0	98%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.56182	5.56182		5.39328	0	0	5.618	5.618	0	103%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	2.99285	2.99285		3.48579	0	0	3.521	3.521	0	86%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	2.60712	2.60712		2.40264	0	0	2.556	2.556	0	109%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.35	12.35		12.5	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040511	4/5/2011 12:54:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040511\4/5/2011 12:54:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040511\4/5/2011 12:54:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
752963	MBLK	EPA_TO15-UG/	MBLK	\\I\DATA\040511	4/5/2011 12:54:0	1	R39639		0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.77	11.77		12.5	0	0	0	0	0	94%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511\	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	3.95	316000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	15.79	1263200		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	7.6	608000		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.83	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	15.49	1239200		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	5.46	436800		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.62025	1009620		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	54.34918	4347934.4		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	31.1524	2492192		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.20772	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	54.60225	4368180		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	20.57874	1646299.2		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.23	978400		1000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\I\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\\1\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	3.95	316000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\I\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	15.29	1223200		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	7.65	612000		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.83	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	14.7	1176000		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	5.54	443200		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\I\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.62025	1009620		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	52.62818	4210254.4		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\I\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	31.35735	2508588		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.20772	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	51.8175	4145400		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	20.88026	1670420.8		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.09	967200		1000000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752966	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 4:30:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752966	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/5/2011 4:30:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0.91	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	21.86	174880		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	92.46	739680		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	42.85	342800		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752966	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/5/2011 4:30:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane	A	ppbv	107.28	858240		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	3.79	30320		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	4.61	36880		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	75.69	605520		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	9.37	74960		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	3.76	30080		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	116.37	930960		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	2.33	18640		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	1.79	14320		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	90.17	721360		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752966	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/5/2011 4:30:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2-Dibromoethane-ug/m3	C	µg/m³	6.99608	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	64.46514	515721.12		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	219.5925	1756740		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	136.90575	1095246		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	369.25776	2954062.08		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	7.14036	57122.88		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	20.01662	160132.96		0	0	0	34736	34736	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752966	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 4:30:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	310.25331	2482026.48		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	81.36908	650952.64		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	13.06224	104497.92		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	410.20425	3281634		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	10.11686	80934.88		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	3.08059	24644.72		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	339.85073	2718805.84		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	13.12	104960		100000	0	0	0	0	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752967	1103389-034B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 5:13:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752967	1103389-034B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 5:13:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	2.54	101.6		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	2.33	93.2		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	1.29	51.6		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	2.86	114.4		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752967	1103389-034B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 5:13:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0.61	0		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	1.17	46.8		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0.59	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	19.46656	778.6624		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752967	1103389-034B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 5:13:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	5.53375	221.35		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	4.12155	164.862		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	17.99226	719.6904		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	2.09962	0		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752967	1103389-034B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/5/2011 5:13:00		40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	4.40973	176.3892		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	3.17066	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.79	511.6		500	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752968	1103389-035B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/5/2011 5:54:00		40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752968	1103389-035B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 5:54:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.77	70.8		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	1.7	68		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	16.74	669.6		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	2.8	112		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752968	1103389-035B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511'4/5/2011 5:54:00		40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	1.51	60.4		0	0	0	40	40	0	0%	0	0	0%	M
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	14.26	570.4		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	13.56528	542.6112		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752968	1103389-035B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040511	4/5/2011 5:54:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	4.0375	161.5		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	53.4843	2139.372		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	17.6148	704.592		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	5.19742	207.8968		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752968	1103389-035B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/5/2011 5:54:00		40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	53.74594	2149.8376		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.95	518		500	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752969	1103389-036B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 6:36:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	0.88	0		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	1.13	45.2		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0.5	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752969	1103389-036B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/5/2011 6:36:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	8.86	354.4		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	0.8	0		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.36	54.4		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	1.72	68.8		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752969	1103389-036B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/5/2011 6:36:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.09	0		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	3.61035	144.414		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	3.1455	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	30.49612	1219.8448		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752969	1103389-036B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511	4/5/2011 6:36:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	3.2792	0		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	4.794	191.76		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	2.96012	118.4048		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	13.08	523.2		500	0	0	0	0	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752970	1103389-037B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511'4/5/2011 7:19:00		40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752970	1103389-037B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040511	4/5/2011 7:19:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.5	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	5.03	201.2		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	18.41	736.4		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	1.89	75.6		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752970	1103389-037B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 7:19:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752970	1103389-037B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511\	4/5/2011 7:19:00	40	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	4.342	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	17.73075	709.23		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	31.68361	1267.3444		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	7.12341	284.9364		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	15.66	626.4		500	0	0	0	0	0	125%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752971	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 8:04:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Butanone	A	ppbv	4.06	81200		0	0	0	20000	20000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Acetone	A	ppbv	26.93	538600		0	0	0	20000	20000	0	0%	0	0	0%	
Benzene	A	ppbv	15.9	318000		0	0	0	20000	20000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752971	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 8:04:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	38.87	777400		0	0	0	20000	20000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethanol	A	ppbv	1.4	28000		0	0	0	20000	20000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.49	29800		0	0	0	20000	20000	0	0%	0	0	0%	
Heptane	A	ppbv	26.37	527400		0	0	0	20000	20000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.18	63600		0	0	0	40000	40000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.04	20800		0	0	0	20000	20000	0	0%	0	0	0%	
n-Hexane	A	ppbv	50.18	1003600		0	0	0	20000	20000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.95	0		0	0	0	20000	20000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Propylene	A	ppbv	2.12	42400		0	0	0	20000	20000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Toluene	A	ppbv	26.3	526000		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	137300	137300	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	153280	153280	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752971	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040511	4/5/2011 8:04:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	148420	148420	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	153760	153760	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	92420	92420	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	44240	44240	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	72080	72080	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	11.97294	239458.8		0	0	0	58980	58980	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	81940	81940	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	49160	49160	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	81960	81960	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	63.95875	1279175		0	0	0	47500	47500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	50.8005	1016010		0	0	0	63900	63900	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	103540	103540	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	133980	133980	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	206740	206740	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	77660	77660	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	62280	62280	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	125820	125820	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	92080	92080	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	170380	170380	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	52760	52760	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	97660	97660	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	41300	41300	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	133.79054	2675810.8		0	0	0	68840	68840	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	98900	98900	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752971	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040511	4/5/2011 8:04:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	2.6376	52752		0	0	0	37680	37680	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	72060	72060	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.46958	129391.6		0	0	0	86840	86840	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	108.09063	2161812.6		0	0	0	81980	81980	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	213300	213300	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	27.61512	552302.4		0	0	0	347360	347360	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.61296	72259.2		0	0	0	69480	69480	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	176.8845	3537690		0	0	0	70500	70500	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	104840	104840	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.1249	0		0	0	0	86840	86840	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	3.64852	72970.4		0	0	0	34420	34420	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	85200	85200	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	72100	72100	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	135640	135640	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	58980	58980	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	99.1247	1982494		0	0	0	75380	75380	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	107480	107480	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	112360	112360	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	70420	70420	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51120	51120	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.7	254000		250000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752972	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 8:49:00	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	2.4	96000		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	15.4	616000		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	9.67	386800		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752972	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\I\DATA\040511\	4/5/2011 8:49:00	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	25.69	1027600		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.84	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	17.02	680800		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.8	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	2.14	85600		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	34.72	1388800		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.55	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	1.11	44400		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	14.25	570000		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752972	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/5/2011 8:49:00	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	7.0776	283104		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	36.575	1463000		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	30.89565	1235826		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	88.42498	3536999.2		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752972	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 8:49:00	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	3.64728	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	69.76498	2790599.2		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	15.6312	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	7.43436	297374.4		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	122.388	4895520		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.3881	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.91031	76412.4		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	53.70825	2148330		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.59	503600		500000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752973	1103389-024B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 9:34:00	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.36	54400		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	5.96	238400		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	3.64	145600		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752973	1103389-024B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/5/2011 9:34:00		40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	17.49	699600		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.05	42000		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	13.76	550400		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.23	89200		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	9.16	366400		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.66	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	16.79	671600		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752973	1103389-024B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\	4/5/2011 9:34:00	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	4.01064	160425.6		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	14.155	566200		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	11.6298	465192		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	60.20058	2408023.2		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752973	1103389-024B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511'4/5/2011 9:34:00		40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.5591	182364		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	56.40224	2256089.6		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	19.36532	774612.8		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	32.289	1291560		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.86572	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	63.28151	2531260.4		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.22	488800		500000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752974	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 10:19:0	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	4.23	169200		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	19.01	760400		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	12.69	507600		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752974	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\DATA\040511	4/5/2011 10:19:0	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	39.71	1588400		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	1.12	44800		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.17	46800		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	27.62	1104800		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.3	92000		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.83	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	37.99	1519600		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.63	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	29.75	1190000		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752974	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\4/5/2011 10:19:0		40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	12.47427	498970.8		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	45.14875	1805950		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	40.54455	1621782		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	136.68182	5467272.8		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752974	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 10:19:0	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	2.11008	84403.2		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	5.08014	203205.6		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	113.21438	4528575.2		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	19.9732	798928		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.88342	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	133.91475	5356590		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.73546	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	112.12775	4485110		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.4	496000		500000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752975	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 11:04:0	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	2.04	163200		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	9.76	780800		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	7.22	577600		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752975	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 11:04:0	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	23.29	1863200		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0.51	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.52	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	13.7	1096000		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.98	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	26.56	2124800		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	12.45	996000		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752975	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/5/2011 11:04:0	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	6.01596	481276.8		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	23.18	1854400		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	23.0679	1845432		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	80.16418	6413134.4		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752975	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\	4/5/2011 11:04:0	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0.96084	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.25784	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	56.1563	4492504		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	8.51032	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	93.624	7489920		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	46.92405	3753924		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.16	972800		1000000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752976	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511\	4/6/2011 12:33:0	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	3.88	155200		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	16.59	663600		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	11.26	450400		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752976	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/6/2011 12:33:0		40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	33.6	1344000		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.96	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	25.21	1008400		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.09	83600		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	28.31	1132400		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.62	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	19.42	776800		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752976	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 12:33:0	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	11.44212	457684.8		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	39.40125	1576050		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	35.9757	1439028		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	115.6512	4626048		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752976	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 12:33:0	40000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.16832	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	103.33579	4133431.6		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	18.14956	725982.4		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	99.79275	3991710		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.69204	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	73.19398	2927759.2		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.42	496800		500000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752977	1103389-028B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/6/2011 1:18:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.84	36800		0	0	0	20000	20000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Acetone	A	ppbv	6.96	139200		0	0	0	20000	20000	0	0%	0	0	0%	
Benzene	A	ppbv	6.36	127200		0	0	0	20000	20000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752977	1103389-028B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 1:18:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	19.09	381800		0	0	0	20000	20000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethanol	A	ppbv	0.5	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.1	22000		0	0	0	20000	20000	0	0%	0	0	0%	
Heptane	A	ppbv	17.06	341200		0	0	0	20000	20000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.63	52600		0	0	0	40000	40000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
n-Hexane	A	ppbv	14.18	283600		0	0	0	20000	20000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.77	0		0	0	0	20000	20000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Toluene	A	ppbv	15.98	319600		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	20000	20000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	137300	137300	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	153280	153280	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	109120	109120	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752977	1103389-028B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 1:18:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	148420	148420	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	153760	153760	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	80940	80940	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	92420	92420	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	44240	44240	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	120240	120240	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	72080	72080	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	5.42616	108523.2		0	0	0	58980	58980	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	81940	81940	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	49160	49160	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	81960	81960	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	16.53	330600		0	0	0	47500	47500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	20.3202	406404		0	0	0	63900	63900	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	103540	103540	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	133980	133980	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	206740	206740	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	77660	77660	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	62280	62280	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	125820	125820	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	92080	92080	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	170380	170380	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	52760	52760	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	97660	97660	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	41300	41300	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	65.70778	1314155.6		0	0	0	68840	68840	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	98900	98900	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752977	1103389-028B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/6/2011 1:18:00	20000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0.942	0		0	0	0	37680	37680	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	72060	72060	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.7762	95524		0	0	0	86840	86840	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	69.92894	1398578.8		0	0	0	81980	81980	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	213300	213300	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	22.83892	456778.4		0	0	0	347360	347360	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	69480	69480	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	49.9845	999690		0	0	0	70500	70500	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	104840	104840	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	3.34334	0		0	0	0	86840	86840	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	34420	34420	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	85200	85200	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	72100	72100	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	135640	135640	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	58980	58980	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	60.22862	1204572.4		0	0	0	75380	75380	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	79300	79300	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	90780	90780	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	107480	107480	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	112360	112360	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	70420	70420	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	51120	51120	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.31	246200		250000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752978	1103389-038A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/6/2011 2:04:00	24	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.74	41.76		0	0	0	24	24	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
2-Propanol	A	ppbv	1.87	44.88		0	0	0	24	24	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Acetone	A	ppbv	8.64	207.36		0	0	0	24	24	0	0%	0	0	0%	
Benzene	A	ppbv	6.86	164.64		0	0	0	24	24	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752978	1103389-038A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\I\DATA\040511\	4/6/2011 2:04:00	24	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Cyclohexane	A	ppbv	17.82	427.68		0	0	0	24	24	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Ethanol	A	ppbv	3.14	75.36		0	0	0	24	24	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.63	0		0	0	0	24	24	0	0%	0	0	0%	
Heptane	A	ppbv	10.88	261.12		0	0	0	24	24	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.38	0		0	0	0	48	48	0	0%	0	0	0%	
Methylene chloride	A	ppbv	7.13	171.12		0	0	0	24	24	0	0%	0	0	0%	
n-Hexane	A	ppbv	22.47	539.28		0	0	0	24	24	0	0%	0	0	0%	E
Naphthalene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Propylene	A	ppbv	0.64	0		0	0	0	24	24	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Toluene	A	ppbv	10.36	248.64		0	0	0	24	24	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	24	24	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	130.944	130.944	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	164.76	164.76	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	183.936	183.936	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	130.944	130.944	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	97.128	97.128	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752978	1103389-038A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 2:04:00	24	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	95.16	95.16	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	178.104	178.104	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	117.984	117.984	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	184.512	184.512	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	144.288	144.288	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	97.128	97.128	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	110.904	110.904	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	117.984	117.984	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	53.088	53.088	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	144.288	144.288	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	144.288	144.288	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	86.496	86.496	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	5.13126	123.15024		0	0	0	70.776	70.776	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	98.328	98.328	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	4.59646	110.31504		0	0	0	58.992	58.992	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	98.352	98.352	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	20.52	492.48		0	0	0	57	57	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	21.9177	526.0248		0	0	0	76.68	76.68	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	124.248	124.248	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	160.776	160.776	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	248.088	248.088	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	93.192	93.192	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	74.736	74.736	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	150.984	150.984	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	110.496	110.496	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	204.456	204.456	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	63.312	63.312	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	117.192	117.192	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	49.56	49.56	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	95.16	95.16	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	108.936	108.936	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	61.33644	1472.07456		0	0	0	82.608	82.608	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	118.68	118.68	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752978	1103389-038A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/6/2011 2:04:00	24	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	5.91576	141.97824		0	0	0	45.216	45.216	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	86.472	86.472	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.73546	0		0	0	0	104.208	104.208	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	44.59712	1070.33088		0	0	0	98.376	98.376	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	255.96	255.96	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	11.98392	0		0	0	0	416.832	416.832	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	24.76962	594.47088		0	0	0	83.376	83.376	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	79.20675	1900.962		0	0	0	84.6	84.6	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	125.808	125.808	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	104.208	104.208	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	117.984	117.984	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.10144	0		0	0	0	41.304	41.304	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	86.52	86.52	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	162.768	162.768	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	70.776	70.776	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	39.04684	937.12416		0	0	0	90.456	90.456	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	95.16	95.16	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	108.936	108.936	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	128.976	128.976	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	134.832	134.832	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	84.504	84.504	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	61.344	61.344	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	300		300	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	300		300	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	300		300	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.74	305.76		300	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752988	1103389-029B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511	4/6/2011 2:49:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	1.03	8240		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752988	1103389-029B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/6/2011 2:49:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.91	23280		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	3	24000		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.07	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.19	17520		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	4.11	32880		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752988	1103389-029B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/6/2011 2:49:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	3.29085	26326.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	10.01622	80129.76		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752988	1103389-029B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 2:49:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	12.297	98376		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.29188	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	7.71975	61758		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	15.49059	123924.72		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		12.5	0	0	0	0	0	800000%	80	120	0%	S
Bromochloromethane	I	ppbv	12.5	100000		12.5	0	0	0	0	0	800000%	80	120	0%	S
Chlorobenzene-d5	I	ppbv	12.5	100000		12.5	0	0	0	0	0	800000%	80	120	0%	S
4-Bromofluorobenzene	S	ppbv	12.14	97120		12.5	0	0	0	0	0	776960%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752989	1103389-030B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511	4/6/2011 3:33:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0.89	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	2.16	17280		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752989	1103389-030B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511	4/6/2011 3:33:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	6	48000		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0.57	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	4.73	37840		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.16	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	4.33	34640		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	5.34	42720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752989	1103389-030B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 3:33:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.11375	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	6.9012	55209.6		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	20.652	165216		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752989	1103389-030B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 3:33:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	1.07388	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	19.38827	155106.16		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	10.07344	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	15.26325	122106		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	20.12646	161011.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		12.5	0	0	0	0	0	800000%	80	120	0%	S
Bromochloromethane	I	ppbv	12.5	100000		12.5	0	0	0	0	0	800000%	80	120	0%	S
Chlorobenzene-d5	I	ppbv	12.5	100000		12.5	0	0	0	0	0	800000%	80	120	0%	S
4-Bromofluorobenzene	S	ppbv	12.28	98240		12.5	0	0	0	0	0	785920%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511\	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.81	0.81		1	0	0	1	1	0	81%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.86	0.86		0.98	0	0	1	1	0	88%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.12	1.12		0.99	0	0	1	1	0	113%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.71	0.71		0.91	0	0	1	1	0	78%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.91	0.91		0.98	0	0	1	1	0	93%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.86	0.86		0.96	0	0	1	1	0	90%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
1,2-Dichloroethane	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.85	0.85		0.98	0	0	1	1	0	87%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.94	0.94		0.97	0	0	1	1	0	97%	70	130	0%	
1,3-Butadiene	A	ppbv	1.13	1.13		0.98	0	0	1	1	0	115%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
1,4-Dioxane	A	ppbv	0.66	0.66		0.96	0	0	1	1	0	69%	70	130	0%	S
2-Butanone	A	ppbv	0.89	0.89		0.99	0	0	1	1	0	90%	70	130	0%	
2-Hexanone	A	ppbv	0.65	0.65		0.98	0	0	1	1	0	66%	70	130	0%	S
2-Propanol	A	ppbv	0.81	0.81		1.01	0	0	1	1	0	80%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.63	0.63		1	0	0	1	1	0	63%	70	130	0%	S
Acetone	A	ppbv	1.1	1.1		1	0	0	1	1	0	110%	70	130	0%	
Benzene	A	ppbv	2.04	2.04		0.96	0	0	1	1	0	213%	70	130	0%	S
Benzyl chloride	A	ppbv	0.78	0.78		0.97	0	0	1	1	0	80%	70	130	0%	
Bromodichloromethane	A	ppbv	0.87	0.87		0.96	0	0	1	1	0	91%	70	130	0%	
Bromoform	A	ppbv	0.88	0.88		0.96	0	0	1	1	0	92%	70	130	0%	
Bromomethane	A	ppbv	1.02	1.02		0.93	0	0	1	1	0	110%	70	130	0%	
Carbon disulfide	A	ppbv	1.06	1.06		0.97	0	0	1	1	0	109%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.95	0.95		0.95	0	0	1	1	0	100%	70	130	0%	
Chlorobenzene	A	ppbv	0.91	0.91		0.99	0	0	1	1	0	92%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.85	0.85		0.98	0	0	1	1	0	87%	70	130	0%	
Chloroethane	A	ppbv	1.04	1.04		0.92	0	0	1	1	0	113%	70	130	0%	
Chloroform	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Chloromethane	A	ppbv	1.1	1.1		0.95	0	0	1	1	0	116%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040511	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0.93	0.93		0.98	0	0	1	1	0	95%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.81	0.81		0.95	0	0	1	1	0	85%	70	130	0%	
Cyclohexane	A	ppbv	3.15	3.15		0.98	0	0	1	1	0	321%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1.01	1.01		0.92	0	0	1	1	0	110%	70	130	0%	
Ethanol	A	ppbv	0.82	0.82		0.92	0	0	1	1	0	89%	70	130	0%	
Ethyl acetate	A	ppbv	0.77	0.77		0.98	0	0	1	1	0	79%	70	130	0%	
Ethylbenzene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
Heptane	A	ppbv	1.97	1.97		0.99	0	0	1	1	0	199%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	0.84	0.84		0.94	0	0	1	1	0	89%	70	130	0%	
m,p-Xylene	A	ppbv	1.93	1.93		1.92	0	0	2	2	0	101%	70	130	0%	
Methylene chloride	A	ppbv	1.21	1.21		1	0	0	1	1	0	121%	70	130	0%	
n-Hexane	A	ppbv	3.29	3.29		1.01	0	0	1	1	0	326%	70	130	0%	S
Naphthalene	A	ppbv	0.7	0.7		0.92	0	0	1	1	0	76%	70	130	0%	
o-Xylene	A	ppbv	0.96	0.96		1	0	0	1	1	0	96%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.92	0.92		0.98	0	0	1	1	0	94%	70	130	0%	
Propylene	A	ppbv	1.26	1.26		1.02	0	0	1	1	0	124%	70	130	0%	
Styrene	A	ppbv	0.89	0.89		0.98	0	0	1	1	0	91%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	0.91	0.91		0.99	0	0	1	1	0	92%	70	130	0%	
Tetrachloroethene	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
Tetrahydrofuran	A	ppbv	1.41	1.41		1	0	0	1	1	0	141%	70	130	0%	S
Toluene	A	ppbv	2.58	2.58		0.98	0	0	1	1	0	263%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.75	0.75		0.91	0	0	1	1	0	82%	70	130	0%	
Trichloroethene	A	ppbv	0.92	0.92		0.96	0	0	1	1	0	96%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.06	1.06		0.96	0	0	1	1	0	110%	70	130	0%	
Vinyl acetate	A	ppbv	0.76	0.76		0.99	0	0	1	1	0	77%	70	130	0%	
Vinyl chloride	A	ppbv	1.07	1.07		0.94	0	0	1	1	0	114%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.23776	5.23776		5.23776	0	0	5.456	5.456	0	100%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	5.56065	5.56065		6.865	0	0	6.865	6.865	0	81%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.81728	7.81728		7.51072	0	0	7.664	7.664	0	104%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	4.69216	4.69216		5.34688	0	0	5.456	5.456	0	88%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.76371	3.76371		3.92559	0	0	4.047	4.047	0	96%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.4408	4.4408		3.92535	0	0	3.965	3.965	0	113%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.26891	5.26891		6.75311	0	0	7.421	7.421	0	78%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.47356	4.47356		4.81768	0	0	4.916	4.916	0	93%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	6.61168	6.61168		7.38048	0	0	7.688	7.688	0	90%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.47092	5.47092		5.83164	0	0	6.012	6.012	0	94%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	3.76371	3.76371		3.92559	0	0	4.047	4.047	0	96%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	3.92785	3.92785		4.52858	0	0	4.621	4.621	0	87%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.62104	4.62104		4.76852	0	0	4.916	4.916	0	97%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.49956	2.49956		2.16776	0	0	2.212	2.212	0	115%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.59116	5.59116		5.83164	0	0	6.012	6.012	0	96%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	5.7114	5.7114		5.77152	0	0	6.012	6.012	0	99%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	2.37864	2.37864		3.45984	0	0	3.604	3.604	0	69%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	2.62461	2.62461		2.91951	0	0	2.949	2.949	0	90%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.66305	2.66305		4.01506	0	0	4.097	4.097	0	66%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	1.99098	1.99098		2.48258	0	0	2.458	2.458	0	80%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.58174	2.58174		4.098	0	0	4.098	4.098	0	63%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.6125	2.6125		2.375	0	0	2.375	2.375	0	110%	70	130	0%	
Benzene-ug/m3	C	µg/m³	6.5178	6.5178		3.0672	0	0	3.195	3.195	0	213%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	4.03806	4.03806		5.02169	0	0	5.177	5.177	0	80%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	5.82813	5.82813		6.43104	0	0	6.699	6.699	0	91%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	9.09656	9.09656		9.92352	0	0	10.337	10.337	0	92%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	3.96066	3.96066		3.61119	0	0	3.883	3.883	0	110%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.30084	3.30084		3.02058	0	0	3.114	3.114	0	109%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	5.97645	5.97645		5.97645	0	0	6.291	6.291	0	100%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.18964	4.18964		4.55796	0	0	4.604	4.604	0	92%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	7.24115	7.24115		8.34862	0	0	8.519	8.519	0	87%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.74352	2.74352		2.42696	0	0	2.638	2.638	0	113%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	4.78534	4.78534		4.78534	0	0	4.883	4.883	0	100%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.2715	2.2715		1.96175	0	0	2.065	2.065	0	116%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.68745	3.68745		3.8857	0	0	3.965	3.965	0	95%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	3.67659	3.67659		4.31205	0	0	4.539	4.539	0	85%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	10.8423	10.8423		3.37316	0	0	3.442	3.442	0	321%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.99445	4.99445		4.5494	0	0	4.945	4.945	0	110%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.54488	1.54488		1.73328	0	0	1.884	1.884	0	89%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.77431	2.77431		3.53094	0	0	3.603	3.603	0	79%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.21174	4.21174		4.25516	0	0	4.342	4.342	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\1\DATA\040511\4/6/2011 9:31:00		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	8.07503	8.07503		4.05801	0	0	4.099	4.099	0	199%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	8.9586	8.9586		10.0251	0	0	10.665	10.665	0	89%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	16.76012	16.76012		16.67328	0	0	17.368	17.368	0	101%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	4.20354	4.20354		3.474	0	0	3.474	3.474	0	121%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	11.59725	11.59725		3.56025	0	0	3.525	3.525	0	326%	70	130	0%	S
Naphthalene-ug/m3	C	µg/m³	3.6694	3.6694		4.82264	0	0	5.242	5.242	0	76%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.16832	4.16832		4.342	0	0	4.342	4.342	0	96%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.52272	4.52272		4.81768	0	0	4.916	4.916	0	94%	70	130	0%	
Propylene-ug/m3	C	µg/m³	2.16846	2.16846		1.75542	0	0	1.721	1.721	0	124%	70	130	0%	
Styrene-ug/m3	C	µg/m³	3.7914	3.7914		4.1748	0	0	4.26	4.26	0	91%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.28055	3.28055		3.56895	0	0	3.605	3.605	0	92%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.51072	6.51072		6.51072	0	0	6.782	6.782	0	100%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	4.15809	4.15809		2.949	0	0	2.949	2.949	0	141%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	9.72402	9.72402		3.69362	0	0	3.769	3.769	0	263%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.0443	4.0443		3.8857	0	0	3.965	3.965	0	104%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.40425	3.40425		4.13049	0	0	4.539	4.539	0	82%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	4.94408	4.94408		5.15904	0	0	5.374	5.374	0	96%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.95508	5.95508		5.39328	0	0	5.618	5.618	0	110%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	2.67596	2.67596		3.48579	0	0	3.521	3.521	0	77%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	2.73492	2.73492		2.40264	0	0	2.556	2.556	0	114%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.67	12.67		12.5	0	0	0	0	0	101%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39665

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753227	BFB 50cc voa020211c	BFB_TUNE	TUNE	\\1\DATA\040611	4/6/2011 10:17:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.6	0.6		0	0	0	0	0	0	0%	0	2	0%	
174	M		87.2	87.2		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.3	7.3		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.1	98.1		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.2	17.2		0	0	0	0	0	0	0%	8	40	0%	
75	M		46	46		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		7	7		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\1\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	8.53	8.53		10	0	0	1	1	0	85%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.38	1.38		4.17	0	0	1	1	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	9.01	9.01		9.8	0	0	1	1	0	92%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	7.82	7.82		10	0	0	1	1	0	78%	70	130	0%	
1,1-Dichloroethane	A	ppbv	8.83	8.83		10	0	0	1	1	0	88%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.38	8.38		10	0	0	1	1	0	84%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	7.25	7.25		10.6	0	0	1	1	0	68%	70	130	0%	S
1,2,4-Trimethylbenzene	A	ppbv	7.81	7.81		10	0	0	1	1	0	78%	70	130	0%	
1,2-Dibromoethane	A	ppbv	6.73	6.73		10	0	0	1	1	0	67%	70	130	0%	S
1,2-Dichlorobenzene	A	ppbv	7.9	7.9		10	0	0	1	1	0	79%	70	130	0%	
1,2-Dichloroethane	A	ppbv	8.19	8.19		10	0	0	1	1	0	82%	70	130	0%	
1,2-Dichloropropane	A	ppbv	8.12	8.12		10	0	0	1	1	0	81%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	7.78	7.78		10	0	0	1	1	0	78%	70	130	0%	
1,3-Butadiene	A	ppbv	9.03	9.03		10	0	0	1	1	0	90%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	8	8		10	0	0	1	1	0	80%	70	130	0%	

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Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040611\4/6/2011 11:09:0		1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	8.02	8.02		10.2	0	0	1	1	0	79%	70	130	0%	
1,4-Dioxane	A	ppbv	7.96	7.96		10	0	0	1	1	0	80%	70	130	0%	
2-Butanone	A	ppbv	8.03	8.03		10.2	0	0	1	1	0	79%	70	130	0%	
2-Hexanone	A	ppbv	12.47	12.47		10	0	0	1	1	0	125%	70	130	0%	
2-Propanol	A	ppbv	9.56	9.56		10	0	0	1	1	0	96%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	9.54	9.54		10.6	0	0	1	1	0	90%	70	130	0%	
Acetone	A	ppbv	7.75	7.75		10	0	0	1	1	0	78%	70	130	0%	
Benzene	A	ppbv	7.91	7.91		10	0	0	1	1	0	79%	70	130	0%	
Benzyl chloride	A	ppbv	2.35	2.35		5.4	0	0	1	1	0	44%	70	130	0%	S
Bromodichloromethane	A	ppbv	8.6	8.6		10.2	0	0	1	1	0	84%	70	130	0%	
Bromoform	A	ppbv	7.98	7.98		9.8	0	0	1	1	0	81%	70	130	0%	
Bromomethane	A	ppbv	5.12	5.12		10	0	0	1	1	0	51%	70	130	0%	S
Carbon disulfide	A	ppbv	8.44	8.44		10	0	0	1	1	0	84%	70	130	0%	
Carbon tetrachloride	A	ppbv	8.65	8.65		10	0	0	1	1	0	87%	70	130	0%	
Chlorobenzene	A	ppbv	7.87	7.87		10	0	0	1	1	0	79%	70	130	0%	
Chlorodibromomethane	A	ppbv	8.31	8.31		10	0	0	1	1	0	83%	70	130	0%	
Chloroethane	A	ppbv	7.25	7.25		10	0	0	1	1	0	73%	70	130	0%	
Chloroform	A	ppbv	8.6	8.6		10.2	0	0	1	1	0	84%	70	130	0%	
Chloromethane	A	ppbv	11.14	11.14		10.2	0	0	1	1	0	109%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	8.75	8.75		10	0	0	1	1	0	88%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	7.71	7.71		10.6	0	0	1	1	0	73%	70	130	0%	
Cyclohexane	A	ppbv	8.58	8.58		10.2	0	0	1	1	0	84%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	8.63	8.63		10	0	0	1	1	0	86%	70	130	0%	
Ethanol	A	ppbv	10.03	10.03		12.2	0	0	1	1	0	82%	70	130	0%	
Ethyl acetate	A	ppbv	8	8		10	0	0	1	1	0	80%	70	130	0%	
Ethylbenzene	A	ppbv	8.36	8.36		10	0	0	1	1	0	84%	70	130	0%	
Heptane	A	ppbv	8.92	8.92		10	0	0	1	1	0	89%	70	130	0%	
Hexachlorobutadiene	A	ppbv	5.84	5.84		9.8	0	0	1	1	0	60%	70	130	0%	S
m,p-Xylene	A	ppbv	15.93	15.93		20	0	0	2	2	0	80%	70	130	0%	
Methylene chloride	A	ppbv	8.35	8.35		9.8	0	0	1	1	0	85%	70	130	0%	
n-Hexane	A	ppbv	8.15	8.15		10.2	0	0	1	1	0	80%	70	130	0%	
Naphthalene	A	ppbv	7.75	7.75		10	0	0	1	1	0	78%	70	130	0%	
o-Xylene	A	ppbv	8.32	8.32		10	0	0	1	1	0	83%	70	130	0%	
p-Ethyltoluene	A	ppbv	7.55	7.55		10.6	0	0	1	1	0	71%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	10.03	10.03		10	0	0	1	1	0	100%	70	130	0%	
Styrene	A	ppbv	8.64	8.64		10	0	0	1	1	0	86%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	7.38	7.38		10	0	0	1	1	0	74%	70	130	0%	
Tetrachloroethene	A	ppbv	8.9	8.9		10	0	0	1	1	0	89%	70	130	0%	
Tetrahydrofuran	A	ppbv	9.07	9.07		10	0	0	1	1	0	91%	70	130	0%	
Toluene	A	ppbv	8.5	8.5		10	0	0	1	1	0	85%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	8.62	8.62		10	0	0	1	1	0	86%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	7.1	7.1		9.4	0	0	1	1	0	76%	70	130	0%	
Trichloroethene	A	ppbv	14.73	14.73		13.6	0	0	1	1	0	108%	70	130	0%	
Trichlorofluoromethane	A	ppbv	9.02	9.02		10	0	0	1	1	0	90%	70	130	0%	
Vinyl acetate	A	ppbv	6.59	6.59		10	0	0	1	1	0	66%	70	130	0%	S
Vinyl chloride	A	ppbv	8.88	8.88		10	0	0	1	1	0	89%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	46.53968	46.53968		54.56	0	0	5.456	5.456	0	85%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	9.4737	9.4737		28.62705	0	0	6.865	6.865	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	69.05264	69.05264		75.1072	0	0	7.664	7.664	0	92%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	42.66592	42.66592		54.56	0	0	5.456	5.456	0	78%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	35.73501	35.73501		40.47	0	0	4.047	4.047	0	88%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	33.2267	33.2267		39.65	0	0	3.965	3.965	0	84%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	53.80225	53.80225		78.6626	0	0	7.421	7.421	0	68%	70	130	0%	S
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	38.39396	38.39396		49.16	0	0	4.916	4.916	0	78%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	51.74024	51.74024		76.88	0	0	7.688	7.688	0	67%	70	130	0%	S
1,2-Dichlorobenzene-ug/m3	C	µg/m³	47.4948	47.4948		60.12	0	0	6.012	6.012	0	79%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	33.14493	33.14493		40.47	0	0	4.047	4.047	0	82%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	37.52252	37.52252		46.21	0	0	4.621	4.621	0	81%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	38.24648	38.24648		49.16	0	0	4.916	4.916	0	78%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	19.97436	19.97436		22.12	0	0	2.212	2.212	0	90%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	48.096	48.096		60.12	0	0	6.012	6.012	0	80%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	48.21624	48.21624		61.3224	0	0	6.012	6.012	0	79%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	28.68784	28.68784		36.04	0	0	3.604	3.604	0	80%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	23.68047	23.68047		30.0798	0	0	2.949	2.949	0	79%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	51.08959	51.08959		40.97	0	0	4.097	4.097	0	125%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	23.49848	23.49848		24.58	0	0	2.458	2.458	0	96%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	39.09492	39.09492		43.4388	0	0	4.098	4.098	0	90%	70	130	0%	
Acetone-ug/m3	C	µg/m³	18.40625	18.40625		23.75	0	0	2.375	2.375	0	78%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040611\4/6/2011 11:09:0		1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	25.27245	25.27245		31.95	0	0	3.195	3.195	0	79%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	12.16595	12.16595		27.9558	0	0	5.177	5.177	0	44%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	57.6114	57.6114		68.3298	0	0	6.699	6.699	0	84%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	82.48926	82.48926		101.3026	0	0	10.337	10.337	0	81%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	19.88096	19.88096		38.83	0	0	3.883	3.883	0	51%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	26.28216	26.28216		31.14	0	0	3.114	3.114	0	84%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	54.41715	54.41715		62.91	0	0	6.291	6.291	0	87%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	36.23348	36.23348		46.04	0	0	4.604	4.604	0	79%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	70.79289	70.79289		85.19	0	0	8.519	8.519	0	83%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	19.1255	19.1255		26.38	0	0	2.638	2.638	0	73%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	41.9938	41.9938		49.8066	0	0	4.883	4.883	0	84%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	23.0041	23.0041		21.063	0	0	2.065	2.065	0	109%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	34.69375	34.69375		39.65	0	0	3.965	3.965	0	88%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	34.99569	34.99569		48.1134	0	0	4.539	4.539	0	73%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	29.53236	29.53236		35.1084	0	0	3.442	3.442	0	84%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	42.67535	42.67535		49.45	0	0	4.945	4.945	0	86%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	18.89652	18.89652		22.9848	0	0	1.884	1.884	0	82%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	28.824	28.824		36.03	0	0	3.603	3.603	0	80%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	36.29912	36.29912		43.42	0	0	4.342	4.342	0	84%	70	130	0%	
Heptane-ug/m3	C	µg/m³	36.56308	36.56308		40.99	0	0	4.099	4.099	0	89%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	62.2836	62.2836		104.517	0	0	10.665	10.665	0	60%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	138.33612	138.33612		173.68	0	0	17.368	17.368	0	80%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	29.0079	29.0079		34.0452	0	0	3.474	3.474	0	85%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	28.72875	28.72875		35.955	0	0	3.525	3.525	0	80%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	40.6255	40.6255		52.42	0	0	5.242	5.242	0	78%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	36.12544	36.12544		43.42	0	0	4.342	4.342	0	83%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	37.1158	37.1158		52.1096	0	0	4.916	4.916	0	71%	70	130	0%	
Propylene-ug/m3	C	µg/m³	17.26163	17.26163		17.21	0	0	1.721	1.721	0	100%	70	130	0%	
Styrene-ug/m3	C	µg/m³	36.8064	36.8064		42.6	0	0	4.26	4.26	0	86%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	26.6049	26.6049		36.05	0	0	3.605	3.605	0	74%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	60.3598	60.3598		67.82	0	0	6.782	6.782	0	89%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	26.74743	26.74743		29.49	0	0	2.949	2.949	0	91%	70	130	0%	
Toluene-ug/m3	C	µg/m³	32.0365	32.0365		37.69	0	0	3.769	3.769	0	85%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	34.1783	34.1783		39.65	0	0	3.965	3.965	0	86%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\1\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	32.2269	32.2269		42.6666	0	0	4.539	4.539	0	76%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	79.15902	79.15902		73.0864	0	0	5.374	5.374	0	108%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	50.67436	50.67436		56.18	0	0	5.618	5.618	0	90%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	23.20339	23.20339		35.21	0	0	3.521	3.521	0	66%	70	130	0%	S
Vinyl chloride-ug/m3	C	µg/m³	22.69728	22.69728		25.56	0	0	2.556	2.556	0	89%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.59	12.59		12.5	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\1\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.02	1.02		0.96	0	0	1	1	0	106%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.95	0.95		1	0	0	1	1	0	95%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.09	1.09		0.99	0	0	1	1	0	110%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.86	0.86		0.91	0	0	1	1	0	95%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.05	1.05		0.98	0	0	1	1	0	107%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.05	1.05		0.97	0	0	1	1	0	108%	70	130	0%	
1,2-Dichloroethane	A	ppbv	1.04	1.04		0.97	0	0	1	1	0	107%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.09	1.09		0.97	0	0	1	1	0	112%	70	130	0%	
1,3-Butadiene	A	ppbv	1.11	1.11		0.98	0	0	1	1	0	113%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	1.07	1.07		0.97	0	0	1	1	0	110%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1.11	1.11		0.96	0	0	1	1	0	116%	70	130	0%	
1,4-Dioxane	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
2-Butanone	A	ppbv	1	1		0.99	0	0	1	1	0	101%	70	130	0%	
2-Hexanone	A	ppbv	0.79	0.79		0.98	0	0	1	1	0	81%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	0.86	0.86		1.01	0	0	1	1	0	85%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.7	0.7		1	0	0	1	1	0	70%	70	130	0%	
Acetone	A	ppbv	1.03	1.03		1	0	0	1	1	0	103%	70	130	0%	
Benzene	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Benzyl chloride	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
Bromodichloromethane	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Bromoform	A	ppbv	1.02	1.02		0.96	0	0	1	1	0	106%	70	130	0%	
Bromomethane	A	ppbv	1.01	1.01		0.93	0	0	1	1	0	109%	70	130	0%	
Carbon disulfide	A	ppbv	1.03	1.03		0.97	0	0	1	1	0	106%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.99	0.99		0.95	0	0	1	1	0	104%	70	130	0%	
Chlorobenzene	A	ppbv	1.04	1.04		0.99	0	0	1	1	0	105%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Chloroethane	A	ppbv	0.97	0.97		0.92	0	0	1	1	0	105%	70	130	0%	
Chloroform	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
Chloromethane	A	ppbv	1.05	1.05		0.95	0	0	1	1	0	111%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.93	0.93		0.95	0	0	1	1	0	98%	70	130	0%	
Cyclohexane	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Ethanol	A	ppbv	1.03	1.03		0.92	0	0	1	1	0	112%	70	130	0%	
Ethyl acetate	A	ppbv	0.82	0.82		0.98	0	0	1	1	0	84%	70	130	0%	
Ethylbenzene	A	ppbv	1.06	1.06		0.98	0	0	1	1	0	108%	70	130	0%	
Heptane	A	ppbv	1.08	1.08		0.99	0	0	1	1	0	109%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.91	0.91		0.94	0	0	1	1	0	97%	70	130	0%	
m,p-Xylene	A	ppbv	2.1	2.1		1.92	0	0	2	2	0	109%	70	130	0%	
Methylene chloride	A	ppbv	1.12	1.12		1	0	0	1	1	0	112%	70	130	0%	
n-Hexane	A	ppbv	1.05	1.05		1.01	0	0	1	1	0	104%	70	130	0%	
Naphthalene	A	ppbv	0.99	0.99		0.92	0	0	1	1	0	108%	70	130	0%	
o-Xylene	A	ppbv	1.07	1.07		1	0	0	1	1	0	107%	70	130	0%	
p-Ethyltoluene	A	ppbv	1.07	1.07		0.98	0	0	1	1	0	109%	70	130	0%	
Propylene	A	ppbv	1.13	1.13		1.02	0	0	1	1	0	111%	70	130	0%	
Styrene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.01	1.01		0.99	0	0	1	1	0	102%	70	130	0%	
Tetrachloroethene	A	ppbv	1.08	1.08		0.96	0	0	1	1	0	113%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040611\4/6/2011 11:53:0		1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	0.94	0.94		1	0	0	1	1	0	94%	70	130	0%	
Toluene	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.86	0.86		0.91	0	0	1	1	0	95%	70	130	0%	
Trichloroethene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.05	1.05		0.96	0	0	1	1	0	109%	70	130	0%	
Vinyl acetate	A	ppbv	0.86	0.86		0.99	0	0	1	1	0	87%	70	130	0%	
Vinyl chloride	A	ppbv	1.05	1.05		0.94	0	0	1	1	0	112%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.56512	5.56512		5.23776	0	0	5.456	5.456	0	106%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.52175	6.52175		6.865	0	0	6.865	6.865	0	95%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.664	7.664		7.51072	0	0	7.664	7.664	0	102%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.40144	5.40144		5.34688	0	0	5.456	5.456	0	101%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.96606	3.96606		3.92559	0	0	4.047	4.047	0	101%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.32185	4.32185		3.92535	0	0	3.965	3.965	0	110%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	6.38206	6.38206		6.75311	0	0	7.421	7.421	0	95%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	5.1618	5.1618		4.81768	0	0	4.916	4.916	0	107%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.53424	7.53424		7.38048	0	0	7.688	7.688	0	102%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	6.3126	6.3126		5.83164	0	0	6.012	6.012	0	108%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	4.20888	4.20888		3.92559	0	0	4.047	4.047	0	107%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.52858	4.52858		4.52858	0	0	4.621	4.621	0	100%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	5.35844	5.35844		4.76852	0	0	4.916	4.916	0	112%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.45532	2.45532		2.16776	0	0	2.212	2.212	0	113%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	6.43284	6.43284		5.83164	0	0	6.012	6.012	0	110%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	6.67332	6.67332		5.77152	0	0	6.012	6.012	0	116%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	3.604	3.604		3.45984	0	0	3.604	3.604	0	104%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	2.949	2.949		2.91951	0	0	2.949	2.949	0	101%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	3.23663	3.23663		4.01506	0	0	4.097	4.097	0	81%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	2.11388	2.11388		2.48258	0	0	2.458	2.458	0	85%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.8686	2.8686		4.098	0	0	4.098	4.098	0	70%	70	130	0%	
Acetone-ug/m3	C	µg/m³	2.44625	2.44625		2.375	0	0	2.375	2.375	0	103%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.09915	3.09915		3.0672	0	0	3.195	3.195	0	101%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	4.71107	4.71107		5.02169	0	0	5.177	5.177	0	94%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.49803	6.49803		6.43104	0	0	6.699	6.699	0	101%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	10.54374	10.54374		9.92352	0	0	10.337	10.337	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	3.92183	3.92183		3.61119	0	0	3.883	3.883	0	109%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.20742	3.20742		3.02058	0	0	3.114	3.114	0	106%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	6.22809	6.22809		5.97645	0	0	6.291	6.291	0	104%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.78816	4.78816		4.55796	0	0	4.604	4.604	0	105%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	8.34862	8.34862		8.34862	0	0	8.519	8.519	0	100%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.55886	2.55886		2.42696	0	0	2.638	2.638	0	105%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	5.07832	5.07832		4.78534	0	0	4.883	4.883	0	106%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.16825	2.16825		1.96175	0	0	2.065	2.065	0	111%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.8857	3.8857		3.8857	0	0	3.965	3.965	0	100%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.22127	4.22127		4.31205	0	0	4.539	4.539	0	98%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.54526	3.54526		3.37316	0	0	3.442	3.442	0	105%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.945	4.945		4.5494	0	0	4.945	4.945	0	109%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.94052	1.94052		1.73328	0	0	1.884	1.884	0	112%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.95446	2.95446		3.53094	0	0	3.603	3.603	0	84%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.60252	4.60252		4.25516	0	0	4.342	4.342	0	108%	70	130	0%	
Heptane-ug/m3	C	µg/m³	4.42692	4.42692		4.05801	0	0	4.099	4.099	0	109%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	9.70515	9.70515		10.0251	0	0	10.665	10.665	0	97%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	18.2364	18.2364		16.67328	0	0	17.368	17.368	0	109%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.89088	3.89088		3.474	0	0	3.474	3.474	0	112%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	3.70125	3.70125		3.56025	0	0	3.525	3.525	0	104%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	5.18958	5.18958		4.82264	0	0	5.242	5.242	0	108%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.64594	4.64594		4.342	0	0	4.342	4.342	0	107%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	5.26012	5.26012		4.81768	0	0	4.916	4.916	0	109%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.94473	1.94473		1.75542	0	0	1.721	1.721	0	111%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.3452	4.3452		4.1748	0	0	4.26	4.26	0	104%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.64105	3.64105		3.56895	0	0	3.605	3.605	0	102%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	7.32456	7.32456		6.51072	0	0	6.782	6.782	0	113%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.77206	2.77206		2.949	0	0	2.949	2.949	0	94%	70	130	0%	
Toluene-ug/m3	C	µg/m³	3.91976	3.91976		3.69362	0	0	3.769	3.769	0	106%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.08395	4.08395		3.8857	0	0	3.965	3.965	0	105%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.90354	3.90354		4.13049	0	0	4.539	4.539	0	95%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.374	5.374		5.15904	0	0	5.374	5.374	0	104%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.8989	5.8989		5.39328	0	0	5.618	5.618	0	109%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	3.02806	3.02806		3.48579	0	0	3.521	3.521	0	87%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\1\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	2.6838	2.6838		2.40264	0	0	2.556	2.556	0	112%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.58	12.58		12.5	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040611	4/6/2011 1:20:00	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist			
753230	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040611\4/6/2011 1:20:00		1	R39665		0	0				

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040611\4/6/2011 1:20:00		1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\1\DATA\040611\4/6/2011 1:20:00		1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.19	12.19		12.5	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753231	1103389-018B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611\	4/6/2011 4:27:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0.94	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	7.13	57040		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753231	1103389-018B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040611	4/6/2011 4:27:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	17.21	137680		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.53	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	6.93	55440		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.75	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	14.17	113360		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.54	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	13.09	104720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753231	1103389-018B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611\	4/6/2011 4:27:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.2325	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	22.78035	182242.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	59.23682	473894.56		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753231	1103389-018B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040611	4/6/2011 4:27:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.30126	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	28.40607	227248.56		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	15.197	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	49.94925	399594		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.34468	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	49.33621	394689.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.56	100480		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0.57	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	0.85	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.24	17920		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	2.47	19760		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.08	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.54	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.64	13120		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	3.84	30720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	1.35375	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	2.71575	0		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	7.71008	61680.64		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	10.12453	80996.24		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.37872	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	1.87596	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	5.781	46248		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	14.47296	115783.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.54	100320		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\I\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\\1\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	0.85	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\\1\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.16	17280		0	0	17920	8000	8000	0	0%	0	0	4%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	2.42	19360		0	0	19760	8000	8000	0	0%	0	0	2%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.06	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.53	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.62	12960		0	0	13120	8000	8000	0	0%	0	0	1%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	3.8	30400		0	0	30720	8000	8000	0	0%	0	0	1%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\I\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	2.71575	0		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	7.43472	59477.76		0	0	61680.64	27536	27536	0	0%	0	0	4%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\I\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	9.91958	79356.64		0	0	80996.24	32792	32792	0	0%	0	0	2%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.20504	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	1.84122	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	5.7105	45684		0	0	46248	28200	28200	0	0%	0	0	1%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	14.3222	114577.6		0	0	115783.68	30152	30152	0	0%	0	0	1%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.41	99280		100000	0	100320	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753234	1103389-020B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:15:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753234	1103389-020B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:15:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0.96	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	2.6	20800		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753234	1103389-020B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611\4/6/2011 7:15:00		8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane	A	ppbv	7.81	62480		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.59	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	8.51	68080		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.62	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	5.24	41920		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	8.37	66960		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753234	1103389-020B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:15:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.28	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	8.307	66456		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	26.88202	215056.16		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.56178	0		0	0	0	34736	34736	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753234	1103389-020B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:15:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	34.88249	279059.92		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	14.06808	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	18.471	147768		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	31.54653	252372.24		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.5	100000		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753235	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:58:00	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753235	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:58:00	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.67	267200		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0.9	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	6.85	1096000		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	4.58	732800		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753235	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:58:00	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	18.44	2950400		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	13.71	2193600		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.87	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	13.25	2120000		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	11.18	1788800		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753235	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040611	4/6/2011 7:58:00	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	4.92483	787972.8		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	2.2122	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	16.26875	2603000		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	14.6331	2341296		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	63.47048	10155276.8		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753235	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:58:00	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	56.19729	8991566.4		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.55508	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	46.70625	7473000		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	42.13742	6741987.2		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.48	1996800		2000000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753236	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 9:23:00	40000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753236	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040611\4/6/2011 9:23:00		40000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	2.69	107600		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	2.28	91200		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	18.38	735200		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	11.29	451600		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753236	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 9:23:00	40000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	35.27	1410800		0	0	0	40000	40000	0	0%	0	0	0%	E
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	1.27	50800		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.93	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	23.99	959600		0	0	0	40000	40000	0	0%	0	0	0%	E
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.95	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	46.23	1849200		0	0	0	40000	40000	0	0%	0	0	0%	E
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.57	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	1.08	43200		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	18.19	727600		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753236	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\1\DATA\040611	4/6/2011 9:23:00	40000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	7.93281	317312.4		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	5.60424	224169.6		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	43.6525	1746100		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	36.07155	1442862		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	121.39934	4855973.6		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753236	1103389-022B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040611	4/6/2011 9:23:00	40000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	2.39268	95707.2		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.03806	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	98.33501	3933400.4		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	16.9338	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	162.96075	6518430		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	2.47494	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.85868	74347.2		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	68.55811	2742324.4		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.43	497200		500000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753237	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611\4/6/2011 10:06:0		80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.75	140000		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	1.5	120000		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	11.23	898400		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	6.61	528800		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753237	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 10:06:0	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	21.12	1689600		0	0	0	80000	80000	0	0%	0	0	0%	E
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.62	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	14.4	1152000		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.36	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.54	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	28.74	2299200		0	0	0	80000	80000	0	0%	0	0	0%	E
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0.64	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	10.19	815200		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753237	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611\4/6/2011 10:06:0		80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	5.16075	412860		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	3.687	294960		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	26.67125	2133700		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	21.11895	1689516		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	72.69504	5815603.2		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753237	1103389-023B (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 10:06:0	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.69204	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	59.0256	4722048		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	11.81024	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	1.87596	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	101.3085	8104680		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.10144	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	38.40611	3072488.8		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.35	988000		1000000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753238	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611\4/6/2011 10:48:0		160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	1.4	224000		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	0.94	0		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753238	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 10:48:0	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	3.22	515200		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	1.91	305600		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.56	0		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	3.6	576000		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	1.77	283200		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753238	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040611	4/6/2011 10:48:0	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	3.325	532000		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	3.0033	0		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	11.08324	1773318.4		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753238	1103389-025B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 10:48:0	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	7.82909	1252654.4		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	1.94544	0		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	12.69	2030400		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	6.67113	1067380.8		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.34	1974400		2000000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753239	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 11:31:0	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	1.47	235200		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0.65	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	6.52	1043200		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	4.94	790400		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753239	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040611	4/6/2011 11:31:0	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	18.73	2996800		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	10.64	1702400		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.7	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.59	0		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	19.85	3176000		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	8.24	1318400		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753239	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 11:31:0	160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	4.33503	693604.8		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	1.5977	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	15.485	2477600		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	15.7833	2525328		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	64.46866	10314985.6		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753239	1103389-026B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611\4/6/2011 11:31:0		160000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	43.61336	6978137.6		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	6.0788	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.04966	0		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	69.97125	11195400		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	31.05656	4969049.6		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.31	1969600		2000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753240	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 12:13:0	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	2.26	180800		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	9.6	768000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	7	560000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753240	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611\4/7/2011 12:13:0		80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	25.62	2049600		0	0	0	80000	80000	0	0%	0	0	0%	E
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.6	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	20.04	1603200		0	0	0	80000	80000	0	0%	0	0	0%	E
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.29	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.67	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	18.19	1455200		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	11.67	933600		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753240	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 12:13:0	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	6.66474	533179.2		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	22.8	1824000		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	22.365	1789200		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	88.18404	7054723.2		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753240	1103389-027B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 12:13:0	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.6052	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	82.14396	6571516.8		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	11.20236	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.32758	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	64.11975	5129580		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	43.98423	3518738.4		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.31	984800		1000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.82	0.82		1	0	0	1	1	0	82%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.89	0.89		0.98	0	0	1	1	0	91%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.07	1.07		0.99	0	0	1	1	0	108%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.68	0.68		0.91	0	0	1	1	0	75%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.87	0.87		0.96	0	0	1	1	0	91%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
1,2-Dichloroethane	A	ppbv	0.96	0.96		0.97	0	0	1	1	0	99%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.87	0.87		0.98	0	0	1	1	0	89%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.97	0.97		0.97	0	0	1	1	0	100%	70	130	0%	
1,3-Butadiene	A	ppbv	1.18	1.18		0.98	0	0	1	1	0	120%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
1,4-Dioxane	A	ppbv	0.66	0.66		0.96	0	0	1	1	0	69%	70	130	0%	S
2-Butanone	A	ppbv	0.88	0.88		0.99	0	0	1	1	0	89%	70	130	0%	
2-Hexanone	A	ppbv	0.69	0.69		0.98	0	0	1	1	0	70%	70	130	0%	
2-Propanol	A	ppbv	0.8	0.8		1.01	0	0	1	1	0	79%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.67	0.67		1	0	0	1	1	0	67%	70	130	0%	S
Acetone	A	ppbv	0.98	0.98		1	0	0	1	1	0	98%	70	130	0%	
Benzene	A	ppbv	2.5	2.5		0.96	0	0	1	1	0	260%	70	130	0%	S
Benzyl chloride	A	ppbv	0.76	0.76		0.97	0	0	1	1	0	78%	70	130	0%	
Bromodichloromethane	A	ppbv	0.9	0.9		0.96	0	0	1	1	0	94%	70	130	0%	
Bromoform	A	ppbv	0.87	0.87		0.96	0	0	1	1	0	91%	70	130	0%	
Bromomethane	A	ppbv	1.04	1.04		0.93	0	0	1	1	0	112%	70	130	0%	
Carbon disulfide	A	ppbv	1.06	1.06		0.97	0	0	1	1	0	109%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.93	0.93		0.95	0	0	1	1	0	98%	70	130	0%	
Chlorobenzene	A	ppbv	0.94	0.94		0.99	0	0	1	1	0	95%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.87	0.87		0.98	0	0	1	1	0	89%	70	130	0%	
Chloroethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Chloroform	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Chloromethane	A	ppbv	1.15	1.15		0.95	0	0	1	1	0	121%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0.93	0.93		0.98	0	0	1	1	0	95%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.79	0.79		0.95	0	0	1	1	0	83%	70	130	0%	
Cyclohexane	A	ppbv	7.12	7.12		0.98	0	0	1	1	0	727%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Ethanol	A	ppbv	0.85	0.85		0.92	0	0	1	1	0	92%	70	130	0%	
Ethyl acetate	A	ppbv	0.78	0.78		0.98	0	0	1	1	0	80%	70	130	0%	
Ethylbenzene	A	ppbv	1.06	1.06		0.98	0	0	1	1	0	108%	70	130	0%	
Heptane	A	ppbv	3.47	3.47		0.99	0	0	1	1	0	351%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	0.85	0.85		0.94	0	0	1	1	0	90%	70	130	0%	
m,p-Xylene	A	ppbv	2.16	2.16		1.92	0	0	2	2	0	113%	70	130	0%	
Methylene chloride	A	ppbv	1.1	1.1		1	0	0	1	1	0	110%	70	130	0%	
n-Hexane	A	ppbv	7.4	7.4		1.01	0	0	1	1	0	733%	70	130	0%	S
Naphthalene	A	ppbv	0.65	0.65		0.92	0	0	1	1	0	71%	70	130	0%	
o-Xylene	A	ppbv	1.03	1.03		1	0	0	1	1	0	103%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Propylene	A	ppbv	1.26	1.26		1.02	0	0	1	1	0	124%	70	130	0%	
Styrene	A	ppbv	0.91	0.91		0.98	0	0	1	1	0	93%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	0.91	0.91		0.99	0	0	1	1	0	92%	70	130	0%	
Tetrachloroethene	A	ppbv	0.99	0.99		0.96	0	0	1	1	0	103%	70	130	0%	
Tetrahydrofuran	A	ppbv	2.34	2.34		1	0	0	1	1	0	234%	70	130	0%	S
Toluene	A	ppbv	2.66	2.66		0.98	0	0	1	1	0	271%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.74	0.74		0.91	0	0	1	1	0	81%	70	130	0%	
Trichloroethene	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.07	1.07		0.96	0	0	1	1	0	111%	70	130	0%	
Vinyl acetate	A	ppbv	0.75	0.75		0.99	0	0	1	1	0	76%	70	130	0%	
Vinyl chloride	A	ppbv	1.12	1.12		0.94	0	0	1	1	0	119%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.34688	5.34688		5.23776	0	0	5.456	5.456	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	5.6293	5.6293		6.865	0	0	6.865	6.865	0	82%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.43408	7.43408		7.51072	0	0	7.664	7.664	0	99%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	4.85584	4.85584		5.34688	0	0	5.456	5.456	0	91%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.68277	3.68277		3.92559	0	0	4.047	4.047	0	94%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.24255	4.24255		3.92535	0	0	3.965	3.965	0	108%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.04628	5.04628		6.75311	0	0	7.421	7.421	0	75%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.81768	0	0	4.916	4.916	0	99%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	6.68856	6.68856		7.38048	0	0	7.688	7.688	0	91%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.47092	5.47092		5.83164	0	0	6.012	6.012	0	94%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	3.88512	3.88512		3.92559	0	0	4.047	4.047	0	99%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.02027	4.02027		4.52858	0	0	4.621	4.621	0	89%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.76852	0	0	4.916	4.916	0	100%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.61016	2.61016		2.16776	0	0	2.212	2.212	0	120%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.59116	5.59116		5.83164	0	0	6.012	6.012	0	96%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	5.65128	5.65128		5.77152	0	0	6.012	6.012	0	98%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	2.37864	2.37864		3.45984	0	0	3.604	3.604	0	69%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	2.59512	2.59512		2.91951	0	0	2.949	2.949	0	89%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.82693	2.82693		4.01506	0	0	4.097	4.097	0	70%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	1.9664	1.9664		2.48258	0	0	2.458	2.458	0	79%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.74566	2.74566		4.098	0	0	4.098	4.098	0	67%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.3275	2.3275		2.375	0	0	2.375	2.375	0	98%	70	130	0%	
Benzene-ug/m3	C	µg/m³	7.9875	7.9875		3.0672	0	0	3.195	3.195	0	260%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	3.93452	3.93452		5.02169	0	0	5.177	5.177	0	78%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.0291	6.0291		6.43104	0	0	6.699	6.699	0	94%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	8.99319	8.99319		9.92352	0	0	10.337	10.337	0	91%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	4.03832	4.03832		3.61119	0	0	3.883	3.883	0	112%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.30084	3.30084		3.02058	0	0	3.114	3.114	0	109%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	5.85063	5.85063		5.97645	0	0	6.291	6.291	0	98%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.32776	4.32776		4.55796	0	0	4.604	4.604	0	95%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	7.41153	7.41153		8.34862	0	0	8.519	8.519	0	89%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.638	2.638		2.42696	0	0	2.638	2.638	0	109%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	4.883	4.883		4.78534	0	0	4.883	4.883	0	102%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.37475	2.37475		1.96175	0	0	2.065	2.065	0	121%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.68745	3.68745		3.8857	0	0	3.965	3.965	0	95%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	3.58581	3.58581		4.31205	0	0	4.539	4.539	0	83%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	24.50704	24.50704		3.37316	0	0	3.442	3.442	0	727%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.945	4.945		4.5494	0	0	4.945	4.945	0	109%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.6014	1.6014		1.73328	0	0	1.884	1.884	0	92%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.81034	2.81034		3.53094	0	0	3.603	3.603	0	80%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.60252	4.60252		4.25516	0	0	4.342	4.342	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/7/2011 10:15:0	I	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	14.22353	14.22353		4.05801	0	0	4.099	4.099	0	351%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	9.06525	9.06525		10.0251	0	0	10.665	10.665	0	90%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	18.75744	18.75744		16.67328	0	0	17.368	17.368	0	113%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.8214	3.8214		3.474	0	0	3.474	3.474	0	110%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	26.085	26.085		3.56025	0	0	3.525	3.525	0	733%	70	130	0%	S
Naphthalene-ug/m3	C	µg/m³	3.4073	3.4073		4.82264	0	0	5.242	5.242	0	71%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.47226	4.47226		4.342	0	0	4.342	4.342	0	103%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.81768	4.81768		4.81768	0	0	4.916	4.916	0	100%	70	130	0%	
Propylene-ug/m3	C	µg/m³	2.16846	2.16846		1.75542	0	0	1.721	1.721	0	124%	70	130	0%	
Styrene-ug/m3	C	µg/m³	3.8766	3.8766		4.1748	0	0	4.26	4.26	0	93%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.28055	3.28055		3.56895	0	0	3.605	3.605	0	92%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.71418	6.71418		6.51072	0	0	6.782	6.782	0	103%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	6.90066	6.90066		2.949	0	0	2.949	2.949	0	234%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	10.02554	10.02554		3.69362	0	0	3.769	3.769	0	271%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	3.8857	3.8857		3.8857	0	0	3.965	3.965	0	100%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.35886	3.35886		4.13049	0	0	4.539	4.539	0	81%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.05156	5.05156		5.15904	0	0	5.374	5.374	0	98%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	6.01126	6.01126		5.39328	0	0	5.618	5.618	0	111%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	2.64075	2.64075		3.48579	0	0	3.521	3.521	0	76%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	2.86272	2.86272		2.40264	0	0	2.556	2.556	0	119%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.51	12.51		12.5	0	0	0	0	0	100%	70	130	0%	

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752014	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39600	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	12.5	11.93	95.44%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752015	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	12.5	11.8	94.40%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752016	MBLK	EPA_TO15-UG/M3	MBLK	R39600	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	12.5	11.48	91.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752017	1103389-001B	EPA_TO15-UG/M3	SAMP	R39600	10

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	125	122.5	98.00%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752018	1103389-003B	EPA_TO15-UG/M3	SAMP	R39600	10

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	125	146.6	117.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752019	1103389-013B	EPA_TO15-UG/M3	SAMP	R39600	10

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	125	121.2	96.96%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752020	1103389-013BDUP	EPA_TO15-UG/M3	DUP	R39600	10

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	125	122.6	98.08%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752021	1103389-004B	EPA_TO15-UG/M3	SAMP	R39600	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	5000	5052	101.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752022	1103389-005B	EPA_TO15-UG/M3	SAMP	R39600	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	5000	5172	103.44%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752023	1103389-006B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	95200	95.20%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752024	1103389-007B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	95920	95.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752025	1103389-008B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	95680	95.68%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752026	1103389-009B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	96160	96.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752027	1103389-010B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	99440	99.44%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752028	1103389-011B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	94240	94.24%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752029	1103389-012B	EPA_TO15-UG/M3	SAMP	R39600	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	5000	5004	100.08%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752030	1103389-014B	EPA_TO15-UG/M3	SAMP	R39600	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	5000	5048	100.96%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752031	1103389-002B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	96880	96.88%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752032	1103389-031B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	95360	95.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752034	1103389-033B	EPA_TO15-UG/M3	SAMP	R39600	10

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	125	128.9	103.12%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752035	1103389-032B	EPA_TO15-UG/M3	SAMP	R39600	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	96880	96.88%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752572	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.92	95.36%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752548	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39618	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.83	94.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752549	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.07	96.56%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752550	MBLK	EPA_TO15-UG/M3	MBLK	R39618	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.6	92.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752551	1103389-001B	EPA_TO15-UG/M3	SAMP	R39618	20

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	250	254.6	101.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752552	1103389-015B	EPA_TO15-UG/M3	SAMP	R39618	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	538.4	107.68%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752553	1103389-015BDUP	EPA_TO15-UG/M3	DUP	R39618	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	530.4	106.08%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752554	1103389-002B	EPA_TO15-UG/M3	SAMP	R39618	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	250000	241600	96.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752555	1103389-002B	EPA_TO15-UG/M3	SAMP	R39618	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	500000	487200	97.44%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752556	1103389-003B	EPA_TO15-UG/M3	SAMP	R39618	200

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2500	2574	102.96%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752557	1103389-004B	EPA_TO15-UG/M3	SAMP	R39618	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	20000	20160	100.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752558	1103389-005B	EPA_TO15-UG/M3	SAMP	R39618	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	20000	20496	102.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752559	1103389-006B	EPA_TO15-UG/M3	SAMP	R39618	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	250000	243400	97.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752560	1103389-007B	EPA_TO15-UG/M3	SAMP	R39618	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	250000	242000	96.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752561	1103389-010B	EPA_TO15-UG/M3	SAMP	R39618	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	500000	506400	101.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752562	1103389-012B	EPA_TO15-UG/M3	SAMP	R39618	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	20000	20016	100.08%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752563	1103389-014B	EPA_TO15-UG/M3	SAMP	R39618	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	20000	19856	99.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752564	1103389-016B	EPA_TO15-UG/M3	SAMP	R39618	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	20000	19984	99.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752565	1103389-017B	EPA_TO15-UG/M3	SAMP	R39618	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	20000	19984	99.92%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752566	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.94	95.52%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.34	98.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.35	98.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752963	MBLK	EPA_TO15-UG/M3	MBLK	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.77	94.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752964	1103389-010B	EPA_TO15-UG/M3	SAMP	R39639	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	978400	97.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752965	1103389-010BDUP	EPA_TO15-UG/M3	DUP	R39639	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1000000	967200	96.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752966	1103389-021B	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	104960	104.96%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752967	1103389-034B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	511.6	102.32%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752968	1103389-035B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	518	103.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752969	1103389-036B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	523.2	104.64%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752970	1103389-037B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	626.4	125.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752971	1103389-022B	EPA_TO15-UG/M3	SAMP	R39639	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	250000	254000	101.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752972	1103389-023B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	503600	100.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752973	1103389-024B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	488800	97.76%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752974	1103389-025B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	496000	99.20%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752975	1103389-026B	EPA_TO15-UG/M3	SAMP	R39639	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1000000	972800	97.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752976	1103389-027B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	496800	99.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752977	1103389-028B	EPA_TO15-UG/M3	SAMP	R39639	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	250000	246200	98.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752978	1103389-038A	EPA_TO15-UG/M3	SAMP	R39639	24

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	300	305.76	101.92%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752981	1103609-001A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100720	100.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752982	1103609-006A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99600	99.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752983	1103609-007A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100240	100.24%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752984	1103609-008A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100800	100.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752985	1103609-009A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100800	100.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.67	101.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752988	1103389-029B	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	97120	97.12%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752989	1103389-030B	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	98240	98.24%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.59	100.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.58	100.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753230	MBLK	EPA_TO15-UG/M3	MBLK	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.19	97.52%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753231	1103389-018B	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100480	100.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753232	1103389-019B	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100320	100.32%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753233	1103389-019BDUP	EPA_TO15-UG/M3	DUP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99280	99.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753234	1103389-020B	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100000	100.00%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753235	1103389-021B	EPA_TO15-UG/M3	SAMP	R39665	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1996800	99.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753236	1103389-022B	EPA_TO15-UG/M3	SAMP	R39665	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	500000	497200	99.44%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
753237	1103389-023B	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	988000	98.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753238	1103389-025B	EPA_TO15-UG/M3	SAMP	R39665	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1974400	98.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753239	1103389-026B	EPA_TO15-UG/M3	SAMP	R39665	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1969600	98.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753240	1103389-027B	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	984800	98.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753241	1103609-017A	EPA_TO15-UG/M3	SAMP	R39665	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	50000	49640	99.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753242	1103609-008A	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	996000	99.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753243	1103609-009A	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	959200	95.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753244	1103609-005A	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	101040	101.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753245	1103609-010A	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	103200	103.20%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.51	100.08%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752014	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Dichlorodifluoromethane-ug/m3	49.45	45.3951	91.80%	70	130		
☑	Methylene chloride-ug/m3	34.0452	32.2735	94.80%	70	130		
☑	Methylene chloride	9.8	9.29	94.80%	70	130		
☑	m,p-Xylene-ug/m3	173.68	141.376	81.40%	70	130		
☑	m,p-Xylene	20	16.28	81.40%	70	130		
☑	Hexachlorobutadiene-ug/m3	104.517	71.5622	68.47%	70	130	*	S
☑	Hexachlorobutadiene	9.8	6.71	68.47%	70	130	*	S
☑	Heptane-ug/m3	40.99	37.3829	91.20%	70	130		
☑	Heptane	10	9.12	91.20%	70	130		
☑	Ethylbenzene	10	8.65	86.50%	70	130		
☑	Ethyl benzene-ug/m3	43.42	37.5583	86.50%	70	130		
☑	Ethyl acetate-ug/m3	36.03	34.8770	96.80%	70	130		
☑	Ethyl acetate	10	9.68	96.80%	70	130		
☑	Chlorodibromomethane-ug/m3	85.19	76.671	90.00%	70	130		
☑	Ethanol	12.2	10.23	83.85%	70	130		
☑	o-Xylene	10	8.72	87.20%	70	130		
☑	Dichlorodifluoromethane	10	9.18	91.80%	70	130		
☑	Cyclohexane-ug/m3	35.1084	32.8711	93.63%	70	130		
☑	Cyclohexane	10.2	9.55	93.63%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	48.1134	38.4453	79.91%	70	130		
☑	cis-1,3-dichloropropene	10.6	8.47	79.91%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	39.65	38.3812	96.80%	70	130		
☑	cis-1,2-Dichloroethene	10	9.68	96.80%	70	130		
☑	Chloromethane-ug/m3	21.063	24.78	117.65%	70	130		
☑	Chloromethane	10.2	12	117.65%	70	130		
☑	Chloroform-ug/m3	49.8066	45.6072	91.57%	70	130		
☑	Chloroform	10.2	9.34	91.57%	70	130		
☑	Chloroethane-ug/m3	26.38	20.1807	76.50%	70	130		
☑	Chloroethane	10	7.65	76.50%	70	130		
☑	Ethanol-ug/m3	22.9848	19.2733	83.85%	70	130		
☑	Tetrahydrofuran-ug/m3	29.49	30.4337	103.20%	70	130		
☑	1,1,1-Trichloroethane	10	9.33	93.30%	70	130		
☑	Vinyl chloride-ug/m3	25.56	24.1031	94.30%	70	130		
☑	Vinyl chloride	10	9.43	94.30%	70	130		
☑	Vinyl acetate-ug/m3	35.21	27.1117	77.00%	70	130		
☑	Vinyl acetate	10	7.7	77.00%	70	130		
☑	Trichlorofluoromethane-ug/m3	56.18	52.7530	93.90%	70	130		
☑	Trichlorofluoromethane	10	9.39	93.90%	70	130		
☑	Trichloroethene-ug/m3	73.0864	80.6637	110.37%	70	130		
☑	Trichloroethene	13.6	15.01	110.37%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752014	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	trans-1,3-Dichloropropene-ug/m3	42.6666	35.6765	83.62%	70	130		
✔	trans-1,3-dichloropropene	9.4	7.86	83.62%	70	130		
✔	trans-1,2-Dichloroethene-ug/m3	39.65	38.1037	96.10%	70	130		
✔	trans-1,2-Dichloroethene	10	9.61	96.10%	70	130		
✔	n-Hexane-ug/m3	35.955	32.148	89.41%	70	130		
✔	Styrene-ug/m3	42.6	38.9364	91.40%	70	130		
✔	n-Hexane	10.2	9.12	89.41%	70	130		
✔	o-Xylene-ug/m3	43.42	37.8622	87.20%	70	130		
✔	p-Ethyltoluene	10.6	8.01	75.57%	70	130		
✔	p-Ethyltoluene-ug/m3	52.1096	39.3772	75.57%	70	130		
✔	Propylene	10	10.6	106.00%	70	130		
✔	Toluene-ug/m3	37.69	33.8079	89.70%	70	130		
✔	Styrene	10	9.14	91.40%	70	130		
✔	Toluene	10	8.97	89.70%	70	130		
✔	tert-Butyl Methyl Ether	10	8.53	85.30%	70	130		
✔	tert-Butyl methyl ether-ug/m3	36.05	30.7507	85.30%	70	130		
✔	Tetrachloroethene	10	9.08	90.80%	70	130		
✔	Tetrachloroethene-ug/m3	67.82	61.5806	90.80%	70	130		
✔	Tetrahydrofuran	10	10.32	103.20%	70	130		
✔	Naphthalene-ug/m3	52.42	47.2828	90.20%	70	130		
✔	Propylene-ug/m3	17.21	18.2426	106.00%	70	130		
✔	1,2,4-Trimethylbenzene	10	8.36	83.60%	70	130		
✔	1,3-Dichlorobenzene-ug/m3	60.12	51.1621	85.10%	70	130		
✔	1,3-Dichlorobenzene	10	8.51	85.10%	70	130		
✔	1,3-Butadiene-ug/m3	22.12	21.7661	98.40%	70	130		
✔	1,3-Butadiene	10	9.84	98.40%	70	130		
✔	1,3,5-Trimethylbenzene-ug/m3	49.16	39.9671	81.30%	70	130		
✔	1,3,5-Trimethylbenzene	10	8.13	81.30%	70	130		
✔	1,2-Dichloropropane-ug/m3	46.21	40.3875	87.40%	70	130		
✔	1,2-Dichloropropane	10	8.74	87.40%	70	130		
✔	1,2-Dichloroethane-ug/m3	40.47	37.2729	92.10%	70	130		
✔	1,2-Dichloroethane	10	9.21	92.10%	70	130		
✔	1,2-Dichlorobenzene-ug/m3	60.12	51.3425	85.40%	70	130		
✔	1,1,2,2-Tetrachloroethane	4.17	1.51	36.21%	70	130	*	S
✔	1,4-Dichlorobenzene	10.2	8.57	84.02%	70	130		
✔	1,2,4-Trimethylbenzene-ug/m3	49.16	41.0978	83.60%	70	130		
✔	1,2-Dichlorobenzene	10	8.54	85.40%	70	130		
✔	1,2,4-Trichlorobenzene-ug/m3	78.6626	64.1174	81.51%	70	130		
✔	1,2,4-Trichlorobenzene	10.6	8.64	81.51%	70	130		
✔	1,1-Dichloroethene-ug/m3	39.65	35.4868	89.50%	70	130		
✔	1,1-Dichloroethene	10	8.95	89.50%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752014	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,1-Dichloroethane-ug/m3	40.47	40.1058	99.10%	70	130		
✔	1,1-Dichloroethane	10	9.91	99.10%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	54.56	46.1578	84.60%	70	130		
✔	1,1,2-Trichloroethane	10	8.46	84.60%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	73.8043	98.27%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	9.63	98.27%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	10.3662	36.21%	70	130	*	S
✔	Chlorodibromomethane	10	9	90.00%	70	130		
✔	Naphthalene	10	9.02	90.20%	70	130		
✔	1,2-Dibromoethane-ug/m3	76.88	56.6606	73.70%	70	130		
✔	Carbon disulfide	10	8.94	89.40%	70	130		
✔	Benzyl chloride	5.4	2.82	52.22%	70	130	*	S
✔	Benzyl chloride-ug/m3	27.9558	14.5991	52.22%	70	130	*	S
✔	Bromodichloromethane	10.2	9.14	89.61%	70	130		
✔	Bromodichloromethane-ug/m3	68.3298	61.2289	89.61%	70	130		
✔	Bromoform	9.8	8.4	85.71%	70	130		
✔	Bromoform-ug/m3	101.303	86.8308	85.71%	70	130		
✔	Benzene-ug/m3	31.95	28.3716	88.80%	70	130		
✔	Bromomethane-ug/m3	38.83	20.7741	53.50%	70	130	*	S
✔	Carbon tetrachloride-ug/m3	62.91	60.2049	95.70%	70	130		
✔	Carbon disulfide-ug/m3	31.14	27.8392	89.40%	70	130		
✔	Carbon tetrachloride	10	9.57	95.70%	70	130		
✔	1,4-Dichlorobenzene-ug/m3	61.3224	51.5228	84.02%	70	130		
✔	Chlorobenzene	10	8.14	81.40%	70	130		
✔	1,2-Dibromoethane	10	7.37	73.70%	70	130		
✔	Chlorobenzene-ug/m3	46.04	37.4766	81.40%	70	130		
✔	Bromomethane	10	5.35	53.50%	70	130	*	S
✔	1,4-Dioxane	10	8.8	88.00%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	54.56	50.9045	93.30%	70	130		
✔	1,4-Dioxane-ug/m3	36.04	31.7152	88.00%	70	130		
✔	2-Butanone	10.2	9.64	94.51%	70	130		
✔	2-Butanone-ug/m3	30.0798	28.4284	94.51%	70	130		
✔	2-Hexanone	10	14.76	147.60%	70	130	*	S
✔	2-Hexanone-ug/m3	40.97	60.4717	147.60%	70	130	*	S
✔	2-Propanol-ug/m3	24.58	25.9319	105.50%	70	130		
✔	4-Methyl-2-pentanone	10.6	11.13	105.00%	70	130		
✔	4-Methyl-2-pentanone-ug/m3	43.4388	45.6107	105.00%	70	130		
✔	Acetone	10	8.82	88.20%	70	130		
✔	Acetone-ug/m3	23.75	20.9475	88.20%	70	130		
✔	Benzene	10	8.88	88.80%	70	130		
✔	2-Propanol	10	10.55	105.50%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752014	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
	Total Recoveries Out: 10							

752015	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✓	1,4-Dioxane	0.96	1	104.17%	70	130		
✓	Acetone	1	1.22	122.00%	70	130		
✓	4-Methyl-2-pentanone-ug/m3	4.098	3.6882	90.00%	70	130		
✓	4-Methyl-2-pentanone	1	0.9	90.00%	70	130		
✓	2-Propanol-ug/m3	2.48258	2.0893	84.16%	70	130		
✓	2-Propanol	1.01	0.85	84.16%	70	130		
✓	2-Hexanone-ug/m3	4.01506	2.90887	72.45%	70	130		
✓	2-Hexanone	0.98	0.71	72.45%	70	130		
✓	2-Butanone-ug/m3	2.91951	3.74523	128.28%	70	130		
✓	1,4-Dichlorobenzene-ug/m3	5.77152	7.93584	137.50%	70	130	*	S
✓	1,4-Dioxane-ug/m3	3.45984	3.604	104.17%	70	130		
✓	Acetone-ug/m3	2.375	2.8975	122.00%	70	130		
✓	Bromomethane	0.93	1.02	109.68%	70	130		
✓	2-Butanone	0.99	1.27	128.28%	70	130		
✓	Benzene	0.96	1.19	123.96%	70	130		
✓	Benzene-ug/m3	3.0672	3.80205	123.96%	70	130		
✓	Benzyl chloride	0.97	1.6	164.95%	70	130	*	S
✓	Benzyl chloride-ug/m3	5.02169	8.2832	164.95%	70	130	*	S
✓	Bromodichloromethane	0.96	1.16	120.83%	70	130		
✓	Bromodichloromethane-ug/m3	6.43104	7.77084	120.83%	70	130		
✓	Carbon tetrachloride-ug/m3	5.97645	7.04592	117.89%	70	130		
✓	Bromoform-ug/m3	9.92352	12.7145	128.13%	70	130		
✓	1,4-Dichlorobenzene	0.96	1.32	137.50%	70	130	*	S
✓	Bromomethane-ug/m3	3.61119	3.96066	109.68%	70	130		
✓	Carbon disulfide	0.97	1.07	110.31%	70	130		
✓	Carbon disulfide-ug/m3	3.02058	3.33198	110.31%	70	130		
✓	Carbon tetrachloride	0.95	1.12	117.89%	70	130		
✓	Chlorobenzene	0.99	1.2	121.21%	70	130		
✓	Bromoform	0.96	1.23	128.13%	70	130		
✓	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	8.27712	110.20%	70	130		
✓	1,1,1-Trichloroethane-ug/m3	5.23776	6.16528	117.71%	70	130		
✓	1,1-Dichloroethene-ug/m3	3.92535	4.4408	113.13%	70	130		
✓	1,1-Dichloroethene	0.99	1.12	113.13%	70	130		
✓	1,1-Dichloroethane-ug/m3	3.92559	4.57311	116.49%	70	130		
✓	1,1-Dichloroethane	0.97	1.13	116.49%	70	130		
✓	1,2,4-Trichlorobenzene-ug/m3	6.75311	7.27258	107.69%	70	130		
✓	1,1,2-Trichloroethane	0.98	1.22	124.49%	70	130		
✓	1,2,4-Trimethylbenzene	0.98	1.33	135.71%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752015	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.08	110.20%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	8.03205	117.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	1.17	117.00%	70	130		
☑	1,1,1-Trichloroethane	0.96	1.13	117.71%	70	130		
☑	Chlorodibromomethane	0.98	1.19	121.43%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	10.1376	121.43%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	6.65632	124.49%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	5.18016	131.96%	70	130	*	S
☑	1,3-Dichlorobenzene	0.97	1.33	137.11%	70	130	*	S
☑	1,3-Butadiene-ug/m3	2.16776	2.58804	119.39%	70	130		
☑	1,3-Butadiene	0.98	1.17	119.39%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	6.43996	135.05%	70	130	*	S
☑	1,3,5-Trimethylbenzene	0.97	1.31	135.05%	70	130	*	S
☑	1,2,4-Trichlorobenzene	0.91	0.98	107.69%	70	130		
☑	1,2-Dichloropropane	0.98	1.22	124.49%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	7.99596	137.11%	70	130	*	S
☑	1,2-Dichloroethane	0.97	1.28	131.96%	70	130	*	S
☑	1,2-Dichlorobenzene-ug/m3	5.83164	7.8156	134.02%	70	130	*	S
☑	1,2-Dichlorobenzene	0.97	1.3	134.02%	70	130	*	S
☑	1,2-Dibromoethane-ug/m3	7.38048	9.45624	128.13%	70	130		
☑	1,2-Dibromoethane	0.96	1.23	128.13%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	6.53828	135.71%	70	130	*	S
☑	1,2-Dichloropropane-ug/m3	4.52858	5.63762	124.49%	70	130		
☑	Toluene	0.98	1.24	126.53%	70	130		
☑	Naphthalene-ug/m3	4.82264	5.18958	107.61%	70	130		
☑	o-Xylene	1	1.24	124.00%	70	130		
☑	o-Xylene-ug/m3	4.342	5.38408	124.00%	70	130		
☑	p-Ethyltoluene	0.98	1.3	132.65%	70	130	*	S
☑	p-Ethyltoluene-ug/m3	4.81768	6.3908	132.65%	70	130	*	S
☑	Propylene	1.02	1.16	113.73%	70	130		
☑	Propylene-ug/m3	1.75542	1.99636	113.73%	70	130		
☑	Styrene	0.98	1.26	128.57%	70	130		
☑	Styrene-ug/m3	4.1748	5.3676	128.57%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.29	130.30%	70	130	*	S
☑	tert-Butyl methyl ether-ug/m3	3.56895	4.65045	130.30%	70	130	*	S
☑	Tetrachloroethene	0.96	1.17	121.88%	70	130		
☑	Naphthalene	0.92	0.99	107.61%	70	130		
☑	Tetrahydrofuran	1	1.08	108.00%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	7.93494	121.88%	70	130		
☑	Toluene-ug/m3	3.69362	4.67356	126.53%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752015	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,2-Dichloroethene	0.98	1.12	114.29%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.4408	114.29%	70	130		
✓	trans-1,3-dichloropropene	0.91	1.13	124.18%	70	130		
✓	trans-1,3-Dichloropropene-ug/m3	4.13049	5.12907	124.18%	70	130		
☑	Trichloroethene	0.96	1.09	113.54%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.85766	113.54%	70	130		
✓	Trichlorofluoromethane	0.96	1.08	112.50%	70	130		
✓	Trichlorofluoromethane-ug/m3	5.39328	6.06744	112.50%	70	130		
☑	Vinyl acetate	0.99	1.34	135.35%	70	130	*	S
☑	Vinyl acetate-ug/m3	3.48579	4.71814	135.35%	70	130	*	S
✓	Vinyl chloride	0.94	1.06	112.77%	70	130		
✓	Chlorobenzene-ug/m3	4.55796	5.5248	121.21%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.70936	112.77%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	5.35602	124.21%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	3.18492	108.00%	70	130		
☑	n-Hexane-ug/m3	3.56025	4.05375	113.86%	70	130		
☑	Chloroform	0.98	1.16	118.37%	70	130		
☑	Chloroform-ug/m3	4.78534	5.66428	118.37%	70	130		
☑	Chloromethane	0.95	1.07	112.63%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.20955	112.63%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1.1	112.24%	70	130		
☑	cis-1,3-dichloropropene	0.95	1.18	124.21%	70	130		
✓	Chloroethane-ug/m3	2.42696	2.638	108.70%	70	130		
✓	Cyclohexane	0.98	1.11	113.27%	70	130		
☑	Cyclohexane-ug/m3	3.37316	3.82062	113.27%	70	130		
☑	Dichlorodifluoromethane	0.92	1.04	113.04%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	5.1428	113.04%	70	130		
☑	Chloroethane	0.92	1	108.70%	70	130		
✓	Methylene chloride	1	1.18	118.00%	70	130		
☑	n-Hexane	1.01	1.15	113.86%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	4.3615	112.24%	70	130		
☑	Methylene chloride-ug/m3	3.474	4.09932	118.00%	70	130		
☑	Ethanol	0.92	0.81	88.04%	70	130		
✓	m,p-Xylene-ug/m3	16.6733	21.189	127.08%	70	130		
☑	m,p-Xylene	1.92	2.44	127.08%	70	130		
✓	Hexachlorobutadiene-ug/m3	10.0251	12.0515	120.21%	70	130		
☑	Hexachlorobutadiene	0.94	1.13	120.21%	70	130		
☑	Heptane-ug/m3	4.05801	4.79583	118.18%	70	130		
☑	Heptane	0.99	1.17	118.18%	70	130		
☑	Ethylbenzene	0.98	1.22	124.49%	70	130		
✓	Ethyl benzene-ug/m3	4.25516	5.29724	124.49%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752015	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	Ethyl acetate-ug/m3	3.53094	4.28757	121.43%	70	130		
✔	Ethyl acetate	0.98	1.19	121.43%	70	130		
✔	Ethanol-ug/m3	1.73328	1.52604	88.04%	70	130		

Total Recoveries Out: 20

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752572	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	m,p-Xylene-ug/m3	16.6733	16.9338	101.56%	70	130		
✔	Ethyl acetate	0.98	0.86	87.76%	70	130		
✔	Ethyl acetate-ug/m3	3.53094	3.09858	87.76%	70	130		
✔	Ethyl benzene-ug/m3	4.25516	4.25516	100.00%	70	130		
✔	Ethylbenzene	0.98	0.98	100.00%	70	130		
✔	Heptane	0.99	1.18	119.19%	70	130		
✔	Heptane-ug/m3	4.05801	4.83682	119.19%	70	130		
✔	Hexachlorobutadiene	0.94	0.94	100.00%	70	130		
✔	Methylene chloride-ug/m3	3.474	4.5162	130.00%	70	130		
✔	m,p-Xylene	1.92	1.95	101.56%	70	130		
✔	Ethanol-ug/m3	1.73328	1.37532	79.35%	70	130		
✔	Methylene chloride	1	1.3	130.00%	70	130		
✔	Hexachlorobutadiene-ug/m3	10.0251	10.0251	100.00%	70	130		
✔	cis-1,2-Dichloroethene-ug/m3	3.8857	4.08395	105.10%	70	130		
✔	n-Hexane	1.01	1.19	117.82%	70	130		
✔	Chloroethane	0.92	0.94	102.17%	70	130		
✔	Chloroform	0.98	1.12	114.29%	70	130		
✔	Chloroform-ug/m3	4.78534	5.46896	114.29%	70	130		
✔	Chloromethane	0.95	1.1	115.79%	70	130		
✔	Chloroethane-ug/m3	2.42696	2.47972	102.17%	70	130		
✔	cis-1,2-Dichloroethene	0.98	1.03	105.10%	70	130		
✔	Ethanol	0.92	0.73	79.35%	70	130		
✔	cis-1,3-dichloropropene	0.95	0.92	96.84%	70	130		
✔	cis-1,3-Dichloropropene-ug/m3	4.31205	4.17588	96.84%	70	130		
✔	Cyclohexane	0.98	1.26	128.57%	70	130		
✔	Cyclohexane-ug/m3	3.37316	4.33692	128.57%	70	130		
✔	Dichlorodifluoromethane	0.92	0.98	106.52%	70	130		
✔	Dichlorodifluoromethane-ug/m3	4.5494	4.8461	106.52%	70	130		
✔	Chloromethane-ug/m3	1.96175	2.2715	115.79%	70	130		
✔	Trichloroethene-ug/m3	5.15904	5.21278	101.04%	70	130		
✔	Vinyl acetate-ug/m3	3.48579	3.48579	100.00%	70	130		
✔	Toluene-ug/m3	3.69362	4.59818	124.49%	70	130		
✔	trans-1,2-Dichloroethene	0.98	1.04	106.12%	70	130		
✔	trans-1,2-Dichloroethene-ug/m3	3.8857	4.1236	106.12%	70	130		
✔	trans-1,3-dichloropropene	0.91	0.87	95.60%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752572	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✓	Tetrahydrofuran-ug/m3	2.949	2.83104	96.00%	70	130		
✓	Trichloroethene	0.96	0.97	101.04%	70	130		
✓	Tetrahydrofuran	1	0.96	96.00%	70	130		
✓	Trichlorofluoromethane	0.96	1.01	105.21%	70	130		
✓	Trichlorofluoromethane-ug/m3	5.39328	5.67418	105.21%	70	130		
✓	Vinyl acetate	0.99	0.99	100.00%	70	130		
✓	Chlorodibromomethane-ug/m3	8.34862	8.09305	96.94%	70	130		
✓	Vinyl chloride	0.94	1.04	110.64%	70	130		
✓	1,3-Dichlorobenzene-ug/m3	5.83164	5.77152	98.97%	70	130		
✓	trans-1,3-Dichloropropene-ug/m3	4.13049	3.94893	95.60%	70	130		
✓	Propylene-ug/m3	1.75542	1.85868	105.88%	70	130		
✓	Naphthalene	0.92	0.71	77.17%	70	130		
✓	Naphthalene-ug/m3	4.82264	3.72182	77.17%	70	130		
✓	o-Xylene	1	0.96	96.00%	70	130		
✓	o-Xylene-ug/m3	4.342	4.16832	96.00%	70	130		
✓	p-Ethyltoluene	0.98	0.95	96.94%	70	130		
✓	Toluene	0.98	1.22	124.49%	70	130		
✓	Propylene	1.02	1.08	105.88%	70	130		
✓	n-Hexane-ug/m3	3.56025	4.19475	117.82%	70	130		
✓	Styrene	0.98	0.95	96.94%	70	130		
✓	Styrene-ug/m3	4.1748	4.047	96.94%	70	130		
✓	tert-Butyl Methyl Ether	0.99	1.01	102.02%	70	130		
✓	tert-Butyl methyl ether-ug/m3	3.56895	3.64105	102.02%	70	130		
✓	Tetrachloroethene	0.96	1	104.17%	70	130		
✓	Tetrachloroethene-ug/m3	6.51072	6.782	104.17%	70	130		
✓	p-Ethyltoluene-ug/m3	4.81768	4.6702	96.94%	70	130		
✓	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.71417	84.62%	70	130		
✓	1,3-Butadiene-ug/m3	2.16776	2.38896	110.20%	70	130		
✓	1,3-Butadiene	0.98	1.08	110.20%	70	130		
✓	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.76852	100.00%	70	130		
✓	1,3,5-Trimethylbenzene	0.97	0.97	100.00%	70	130		
✓	1,2-Dichloropropane-ug/m3	4.52858	4.621	102.04%	70	130		
✓	1,2-Dichloropropane	0.98	1	102.04%	70	130		
✓	1,2-Dichloroethane-ug/m3	3.92559	4.61358	117.53%	70	130		
✓	1,2-Dichloroethane	0.97	1.14	117.53%	70	130		
✓	1,2-Dichlorobenzene-ug/m3	5.83164	5.59116	95.88%	70	130		
✓	1,2-Dichlorobenzene	0.97	0.93	95.88%	70	130		
✓	1,2-Dibromoethane-ug/m3	7.38048	7.22672	97.92%	70	130		
✓	1,2-Dibromoethane	0.96	0.94	97.92%	70	130		
✓	1,4-Dichlorobenzene-ug/m3	5.77152	5.77152	100.00%	70	130		
✓	1,2,4-Trimethylbenzene	0.98	0.96	97.96%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752572	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dichlorobenzene	0.96	0.96	100.00%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.77	84.62%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.2029	107.07%	70	130		
☑	1,1-Dichloroethene	0.99	1.06	107.07%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	4.33029	110.31%	70	130		
☑	1,1-Dichloroethane	0.97	1.07	110.31%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.23776	97.96%	70	130		
☑	1,1,2-Trichloroethane	0.98	0.96	97.96%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.81728	104.08%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.02	104.08%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.1785	90.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.9	90.00%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.83792	111.46%	70	130		
☑	1,1,1-Trichloroethane	0.96	1.07	111.46%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.71936	97.96%	70	130		
☑	Benzene	0.96	1.12	116.67%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	4.51192	98.99%	70	130		
☑	Chlorobenzene	0.99	0.98	98.99%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	6.60555	110.53%	70	130		
☑	Carbon tetrachloride	0.95	1.05	110.53%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.17628	105.15%	70	130		
☑	Carbon disulfide	0.97	1.02	105.15%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.72768	103.23%	70	130		
☑	Bromomethane	0.93	0.96	103.23%	70	130		
☑	Bromoform-ug/m3	9.92352	9.92352	100.00%	70	130		
☑	Bromoform	0.96	0.96	100.00%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	6.49803	101.04%	70	130		
☑	Bromodichloromethane	0.96	0.97	101.04%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	5.12523	102.06%	70	130		
☑	1,3-Dichlorobenzene	0.97	0.96	98.97%	70	130		
☑	2-Propanol	1.01	0.75	74.26%	70	130		
☑	Chlorodibromomethane	0.98	0.95	96.94%	70	130		
☑	1,4-Dioxane	0.96	0.69	71.88%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	2.48676	71.88%	70	130		
☑	2-Butanone	0.99	0.98	98.99%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.89002	98.99%	70	130		
☑	Benzyl chloride	0.97	0.99	102.06%	70	130		
☑	2-Hexanone-ug/m3	4.01506	2.78596	69.39%	70	130	*	S
☑	Benzene-ug/m3	3.0672	3.5784	116.67%	70	130		
☑	2-Propanol-ug/m3	2.48258	1.8435	74.26%	70	130		
☑	4-Methyl-2-pentanone	1	0.69	69.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110401A **Analyst:** Rachel Hill

RunNo: 39600

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752572	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39600	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	4-Methyl-2-pentanone-ug/m3	4.098	2.82762	69.00%	70	130	*	S
✔	Acetone	1	1.06	106.00%	70	130		
✔	Acetone-ug/m3	2.375	2.5175	106.00%	70	130		
✔	Vinyl chloride-ug/m3	2.40264	2.65824	110.64%	70	130		
✔	2-Hexanone	0.98	0.68	69.39%	70	130	*	S

Total Recoveries Out: 4

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752548	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Dichlorodifluoromethane-ug/m3	49.45	44.2083	89.40%	70	130		
☑	Methylene chloride-ug/m3	34.0452	30.3975	89.29%	70	130		
☑	Methylene chloride	9.8	8.75	89.29%	70	130		
☑	m,p-Xylene-ug/m3	173.68	150.146	86.45%	70	130		
☑	m,p-Xylene	20	17.29	86.45%	70	130		
☑	Hexachlorobutadiene-ug/m3	104.517	77.7479	74.39%	70	130		
☑	Hexachlorobutadiene	9.8	7.29	74.39%	70	130		
☑	Heptane-ug/m3	40.99	37.8748	92.40%	70	130		
☑	Heptane	10	9.24	92.40%	70	130		
☑	Ethylbenzene	10	9.11	91.10%	70	130		
☑	Ethyl benzene-ug/m3	43.42	39.5556	91.10%	70	130		
☑	Ethyl acetate-ug/m3	36.03	36.0660	100.10%	70	130		
☑	Ethyl acetate	10	10.01	100.10%	70	130		
☑	Chlorodibromomethane-ug/m3	85.19	76.3302	89.60%	70	130		
☑	Ethanol	12.2	10.64	87.21%	70	130		
☑	o-Xylene	10	9.09	90.90%	70	130		
☑	Dichlorodifluoromethane	10	8.94	89.40%	70	130		
☑	Cyclohexane-ug/m3	35.1084	32.4925	92.55%	70	130		
☑	Cyclohexane	10.2	9.44	92.55%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	48.1134	38.4907	80.00%	70	130		
☑	cis-1,3-dichloropropene	10.6	8.48	80.00%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	39.65	37.5089	94.60%	70	130		
☑	cis-1,2-Dichloroethene	10	9.46	94.60%	70	130		
☑	Chloromethane-ug/m3	21.063	24.5735	116.67%	70	130		
☑	Chloromethane	10.2	11.9	116.67%	70	130		
☑	Chloroform-ug/m3	49.8066	46.6327	93.63%	70	130		
☑	Chloroform	10.2	9.55	93.63%	70	130		
☑	Chloroethane-ug/m3	26.38	18.5715	70.40%	70	130		
☑	Chloroethane	10	7.04	70.40%	70	130		
☑	Ethanol-ug/m3	22.9848	20.0458	87.21%	70	130		
☑	Tetrahydrofuran-ug/m3	29.49	32.0261	108.60%	70	130		
☑	1,1,1-Trichloroethane	10	9.4	94.00%	70	130		
☑	Vinyl chloride-ug/m3	25.56	23.3618	91.40%	70	130		
☑	Vinyl chloride	10	9.14	91.40%	70	130		
☑	Vinyl acetate-ug/m3	35.21	27.4990	78.10%	70	130		
☑	Vinyl acetate	10	7.81	78.10%	70	130		
☑	Trichlorofluoromethane-ug/m3	56.18	50.0002	89.00%	70	130		
☑	Trichlorofluoromethane	10	8.9	89.00%	70	130		
☑	Trichloroethene-ug/m3	73.0864	82.061	112.28%	70	130		
☑	Trichloroethene	13.6	15.27	112.28%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	42.6666	35.7673	83.83%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752548	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,3-dichloropropene	9.4	7.88	83.83%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	39.65	36.2798	91.50%	70	130		
☑	trans-1,2-Dichloroethene	10	9.15	91.50%	70	130		
☑	n-Hexane-ug/m3	35.955	30.7733	85.59%	70	130		
☑	Styrene-ug/m3	42.6	39.9588	93.80%	70	130		
☑	n-Hexane	10.2	8.73	85.59%	70	130		
☑	o-Xylene-ug/m3	43.42	39.4688	90.90%	70	130		
☑	p-Ethyltoluene	10.6	8.18	77.17%	70	130		
☑	p-Ethyltoluene-ug/m3	52.1096	40.2129	77.17%	70	130		
☑	Propylene	10	10.08	100.80%	70	130		
☑	Toluene-ug/m3	37.69	34.6748	92.00%	70	130		
☑	Styrene	10	9.38	93.80%	70	130		
☑	Toluene	10	9.2	92.00%	70	130		
☑	tert-Butyl Methyl Ether	10	8.65	86.50%	70	130		
☑	tert-Butyl methyl ether-ug/m3	36.05	31.1833	86.50%	70	130		
☑	Tetrachloroethene	10	9.07	90.70%	70	130		
☑	Tetrachloroethene-ug/m3	67.82	61.5127	90.70%	70	130		
☑	Tetrahydrofuran	10	10.86	108.60%	70	130		
☑	Naphthalene-ug/m3	52.42	42.5126	81.10%	70	130		
☑	Propylene-ug/m3	17.21	17.3477	100.80%	70	130		
☑	1,2,4-Trimethylbenzene	10	8.47	84.70%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	60.12	51.0419	84.90%	70	130		
☑	1,3-Dichlorobenzene	10	8.49	84.90%	70	130		
☑	1,3-Butadiene-ug/m3	22.12	21.1246	95.50%	70	130		
☑	1,3-Butadiene	10	9.55	95.50%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	49.16	41.1961	83.80%	70	130		
☑	1,3,5-Trimethylbenzene	10	8.38	83.80%	70	130		
☑	1,2-Dichloropropane-ug/m3	46.21	41.0807	88.90%	70	130		
☑	1,2-Dichloropropane	10	8.89	88.90%	70	130		
☑	1,2-Dichloroethane-ug/m3	40.47	38.2037	94.40%	70	130		
☑	1,2-Dichloroethane	10	9.44	94.40%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	60.12	51.1621	85.10%	70	130		
☑	1,1,2,2-Tetrachloroethane	4.17	1.51	36.21%	70	130	*	S
☑	1,4-Dichlorobenzene	10.2	8.53	83.63%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	49.16	41.6385	84.70%	70	130		
☑	1,2-Dichlorobenzene	10	8.51	85.10%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	78.6626	58.1806	73.96%	70	130		
☑	1,2,4-Trichlorobenzene	10.6	7.84	73.96%	70	130		
☑	1,1-Dichloroethene-ug/m3	39.65	32.9095	83.00%	70	130		
☑	1,1-Dichloroethene	10	8.3	83.00%	70	130		
☑	1,1-Dichloroethane-ug/m3	40.47	39.0131	96.40%	70	130		
☑	1,1-Dichloroethane	10	9.64	96.40%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752548	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloroethane-ug/m3	54.56	46.4306	85.10%	70	130		
☑	1,1,2-Trichloroethane	10	8.51	85.10%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	69.5891	92.65%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	9.08	92.65%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	10.3662	36.21%	70	130	*	S
☑	Chlorodibromomethane	10	8.96	89.60%	70	130		
☑	Naphthalene	10	8.11	81.10%	70	130		
☑	1,2-Dibromoethane-ug/m3	76.88	56.2762	73.20%	70	130		
☑	Carbon disulfide	10	8.35	83.50%	70	130		
☑	Benzyl chloride	5.4	2.67	49.44%	70	130	*	S
☑	Benzyl chloride-ug/m3	27.9558	13.8226	49.44%	70	130	*	S
☑	Bromodichloromethane	10.2	9.21	90.29%	70	130		
☑	Bromodichloromethane-ug/m3	68.3298	61.6978	90.29%	70	130		
☑	Bromoform	9.8	8.41	85.82%	70	130		
☑	Bromoform-ug/m3	101.303	86.9342	85.82%	70	130		
☑	Benzene-ug/m3	31.95	28.9467	90.60%	70	130		
☑	Bromomethane-ug/m3	38.83	19.8421	51.10%	70	130	*	S
☑	Carbon tetrachloride-ug/m3	62.91	59.8903	95.20%	70	130		
☑	Carbon disulfide-ug/m3	31.14	26.0019	83.50%	70	130		
☑	Carbon tetrachloride	10	9.52	95.20%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	61.3224	51.2824	83.63%	70	130		
☑	Chlorobenzene	10	8.39	83.90%	70	130		
☑	1,2-Dibromoethane	10	7.32	73.20%	70	130		
☑	Chlorobenzene-ug/m3	46.04	38.6276	83.90%	70	130		
☑	Bromomethane	10	5.11	51.10%	70	130	*	S
☑	1,4-Dioxane	10	8.83	88.30%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	54.56	51.2864	94.00%	70	130		
☑	1,4-Dioxane-ug/m3	36.04	31.8233	88.30%	70	130		
☑	2-Butanone	10.2	9.64	94.51%	70	130		
☑	2-Butanone-ug/m3	30.0798	28.4284	94.51%	70	130		
☑	2-Hexanone	10	14.45	144.50%	70	130	*	S
☑	2-Hexanone-ug/m3	40.97	59.2017	144.50%	70	130	*	S
☑	2-Propanol-ug/m3	24.58	26.8414	109.20%	70	130		
☑	4-Methyl-2-pentanone	10.6	11.62	109.62%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	43.4388	47.6188	109.62%	70	130		
☑	Acetone	10	8.85	88.50%	70	130		
☑	Acetone-ug/m3	23.75	21.0188	88.50%	70	130		
☑	Benzene	10	9.06	90.60%	70	130		
☑	2-Propanol	10	10.92	109.20%	70	130		

Total Recoveries Out: 8

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752549	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dioxane	0.96	1.09	113.54%	70	130		
☑	Acetone	1	1.03	103.00%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.99154	73.00%	70	130		
☑	4-Methyl-2-pentanone	1	0.73	73.00%	70	130		
☑	2-Propanol-ug/m3	2.48258	2.06472	83.17%	70	130		
☑	2-Propanol	1.01	0.84	83.17%	70	130		
☑	2-Hexanone-ug/m3	4.01506	3.48245	86.73%	70	130		
☑	2-Hexanone	0.98	0.85	86.73%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.91951	100.00%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	6.43284	111.46%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	3.92836	113.54%	70	130		
☑	Acetone-ug/m3	2.375	2.44625	103.00%	70	130		
☑	Bromomethane	0.93	0.93	100.00%	70	130		
☑	2-Butanone	0.99	0.99	100.00%	70	130		
☑	Benzene	0.96	1.09	113.54%	70	130		
☑	Benzene-ug/m3	3.0672	3.48255	113.54%	70	130		
☑	Benzyl chloride	0.97	1.04	107.22%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	5.38408	107.22%	70	130		
☑	Bromodichloromethane	0.96	1	104.17%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	6.699	104.17%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	6.47973	108.42%	70	130		
☑	Bromoform-ug/m3	9.92352	10.7505	108.33%	70	130		
☑	1,4-Dichlorobenzene	0.96	1.07	111.46%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.61119	100.00%	70	130		
☑	Carbon disulfide	0.97	0.98	101.03%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.05172	101.03%	70	130		
☑	Carbon tetrachloride	0.95	1.03	108.42%	70	130		
☑	Chlorobenzene	0.99	1.02	103.03%	70	130		
☑	Bromoform	0.96	1.04	108.33%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.51072	100.00%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.78336	110.42%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.08395	104.04%	70	130		
☑	1,1-Dichloroethene	0.99	1.03	104.04%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	4.20888	107.22%	70	130		
☑	1,1-Dichloroethane	0.97	1.04	107.22%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	6.90153	102.20%	70	130		
☑	1,1,2-Trichloroethane	0.98	1	102.04%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	1.04	106.12%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	0.98	100.00%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.52175	95.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.95	95.00%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752549	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,1-Trichloroethane	0.96	1.06	110.42%	70	130		
☑	Chlorodibromomethane	0.98	1	102.04%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	8.519	102.04%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.456	102.04%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	4.65405	118.56%	70	130		
☑	1,3-Dichlorobenzene	0.97	1.06	109.28%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.34472	108.16%	70	130		
☑	1,3-Butadiene	0.98	1.06	108.16%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	5.26012	110.31%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	1.07	110.31%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.93	102.20%	70	130		
☑	1,2-Dichloropropane	0.98	1.04	106.12%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	6.37272	109.28%	70	130		
☑	1,2-Dichloroethane	0.97	1.15	118.56%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	6.19236	106.19%	70	130		
☑	1,2-Dichlorobenzene	0.97	1.03	106.19%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	7.688	104.17%	70	130		
☑	1,2-Dibromoethane	0.96	1	104.17%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	5.11264	106.12%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.80584	106.12%	70	130		
☑	Toluene	0.98	1.04	106.12%	70	130		
☑	Naphthalene-ug/m3	4.82264	5.55652	115.22%	70	130		
☑	o-Xylene	1	1.05	105.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.5591	105.00%	70	130		
☑	p-Ethyltoluene	0.98	1.03	105.10%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	5.06348	105.10%	70	130		
☑	Propylene	1.02	1.06	103.92%	70	130		
☑	Propylene-ug/m3	1.75542	1.82426	103.92%	70	130		
☑	Styrene	0.98	1.03	105.10%	70	130		
☑	Styrene-ug/m3	4.1748	4.3878	105.10%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.05	106.06%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.78525	106.06%	70	130		
☑	Tetrachloroethene	0.96	1.03	107.29%	70	130		
☑	Naphthalene	0.92	1.06	115.22%	70	130		
☑	Tetrahydrofuran	1	0.95	95.00%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	6.98546	107.29%	70	130		
☑	Toluene-ug/m3	3.69362	3.91976	106.12%	70	130		
☑	trans-1,2-Dichloroethene	0.98	1.01	103.06%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.00465	103.06%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.9	98.90%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	4.0851	98.90%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752549	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Trichloroethene	0.96	0.97	101.04%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.21278	101.04%	70	130		
☑	Trichlorofluoromethane	0.96	0.99	103.13%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	5.56182	103.13%	70	130		
☑	Vinyl acetate	0.99	1.04	105.05%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	3.66184	105.05%	70	130		
☑	Vinyl chloride	0.94	1	106.38%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	4.69608	103.03%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.556	106.38%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	4.40283	102.11%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	2.80155	95.00%	70	130		
☑	n-Hexane-ug/m3	3.56025	3.666	102.97%	70	130		
☑	Chloroform	0.98	1.1	112.24%	70	130		
☑	Chloroform-ug/m3	4.78534	5.3713	112.24%	70	130		
☑	Chloromethane	0.95	1.04	109.47%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.1476	109.47%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1.02	104.08%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.97	102.11%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.42696	100.00%	70	130		
☑	Cyclohexane	0.98	1.04	106.12%	70	130		
☑	Cyclohexane-ug/m3	3.37316	3.57968	106.12%	70	130		
☑	Dichlorodifluoromethane	0.92	0.95	103.26%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.69775	103.26%	70	130		
☑	Chloroethane	0.92	0.92	100.00%	70	130		
☑	Methylene chloride	1	1.08	108.00%	70	130		
☑	n-Hexane	1.01	1.04	102.97%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	4.0443	104.08%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.75192	108.00%	70	130		
☑	Ethanol	0.92	1.02	110.87%	70	130		
☑	m,p-Xylene-ug/m3	16.6733	17.7154	106.25%	70	130		
☑	m,p-Xylene	1.92	2.04	106.25%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	10.5584	105.32%	70	130		
☑	Hexachlorobutadiene	0.94	0.99	105.32%	70	130		
☑	Heptane-ug/m3	4.05801	4.26296	105.05%	70	130		
☑	Heptane	0.99	1.04	105.05%	70	130		
☑	Ethylbenzene	0.98	1.02	104.08%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.42884	104.08%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	3.38682	95.92%	70	130		
☑	Ethyl acetate	0.98	0.94	95.92%	70	130		
☑	Ethanol-ug/m3	1.73328	1.92168	110.87%	70	130		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752566	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	m,p-Xylene-ug/m3	16.6733	17.2812	103.65%	70	130		
☑	Ethyl acetate	0.98	0.82	83.67%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	2.95446	83.67%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.342	102.04%	70	130		
☑	Ethylbenzene	0.98	1	102.04%	70	130		
☑	Heptane	0.99	0.97	97.98%	70	130		
☑	Heptane-ug/m3	4.05801	3.97603	97.98%	70	130		
☑	Hexachlorobutadiene	0.94	0.9	95.74%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.89088	112.00%	70	130		
☑	m,p-Xylene	1.92	1.99	103.65%	70	130		
☑	Ethanol-ug/m3	1.73328	1.20576	69.57%	70	130	*	S
☑	Methylene chloride	1	1.12	112.00%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	9.5985	95.74%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.965	102.04%	70	130		
☑	n-Hexane	1.01	1.02	100.99%	70	130		
☑	Chloroethane	0.92	0.96	104.35%	70	130		
☑	Chloroform	0.98	1.08	110.20%	70	130		
☑	Chloroform-ug/m3	4.78534	5.27364	110.20%	70	130		
☑	Chloromethane	0.95	1.18	124.21%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.53248	104.35%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1	102.04%	70	130		
☑	Ethanol	0.92	0.64	69.57%	70	130	*	S
☑	cis-1,3-dichloropropene	0.95	0.9	94.74%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	4.0851	94.74%	70	130		
☑	Cyclohexane	0.98	1	102.04%	70	130		
☑	Cyclohexane-ug/m3	3.37316	3.442	102.04%	70	130		
☑	Dichlorodifluoromethane	0.92	1	108.70%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.945	108.70%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.4367	124.21%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.15904	100.00%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	3.30974	94.95%	70	130		
☑	Toluene-ug/m3	3.69362	3.65593	98.98%	70	130		
☑	trans-1,2-Dichloroethene	0.98	1.02	104.08%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.0443	104.08%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.83	91.21%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	2.71308	92.00%	70	130		
☑	Trichloroethene	0.96	0.96	100.00%	70	130		
☑	Tetrahydrofuran	1	0.92	92.00%	70	130		
☑	Trichlorofluoromethane	0.96	1.05	109.38%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	5.8989	109.38%	70	130		
☑	Vinyl acetate	0.99	0.94	94.95%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752566	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Chlorodibromomethane-ug/m3	8.34862	8.09305	96.94%	70	130		
☑	Vinyl chloride	0.94	1.05	111.70%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	6.07212	104.12%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	3.76737	91.21%	70	130		
☑	Propylene-ug/m3	1.75542	1.85868	105.88%	70	130		
☑	Naphthalene	0.92	0.7	76.09%	70	130		
☑	Naphthalene-ug/m3	4.82264	3.6694	76.09%	70	130		
☑	o-Xylene	1	1	100.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.342	100.00%	70	130		
☑	p-Ethyltoluene	0.98	0.98	100.00%	70	130		
☑	Toluene	0.98	0.97	98.98%	70	130		
☑	Propylene	1.02	1.08	105.88%	70	130		
☑	n-Hexane-ug/m3	3.56025	3.5955	100.99%	70	130		
☑	Styrene	0.98	1	102.04%	70	130		
☑	Styrene-ug/m3	4.1748	4.26	102.04%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.02	103.03%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.6771	103.03%	70	130		
☑	Tetrachloroethene	0.96	1.03	107.29%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	6.98546	107.29%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	4.81768	100.00%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.49154	81.32%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.41108	111.22%	70	130		
☑	1,3-Butadiene	0.98	1.09	111.22%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	5.11264	107.22%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	1.04	107.22%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.43616	97.96%	70	130		
☑	1,2-Dichloropropane	0.98	0.96	97.96%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	4.33029	110.31%	70	130		
☑	1,2-Dichloroethane	0.97	1.07	110.31%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	5.95188	102.06%	70	130		
☑	1,2-Dichlorobenzene	0.97	0.99	102.06%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	7.3036	98.96%	70	130		
☑	1,2-Dibromoethane	0.96	0.95	98.96%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	6.13224	106.25%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	0.99	101.02%	70	130		
☑	1,4-Dichlorobenzene	0.96	1.02	106.25%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.74	81.32%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.2029	107.07%	70	130		
☑	1,1-Dichloroethene	0.99	1.06	107.07%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	4.047	103.09%	70	130		
☑	1,1-Dichloroethane	0.97	1	103.09%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.34688	100.00%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110402A **Analyst:** Rachel Hill

RunNo: 39618

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752566	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39618	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✓	1,1,2-Trichloroethane	0.98	0.98	100.00%	70	130		
✓	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.81728	104.08%	70	130		
✓	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.02	104.08%	70	130		
✓	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.1785	90.00%	70	130		
✓	1,1,2,2-Tetrachloroethane	1	0.9	90.00%	70	130		
✓	1,1,1-Trichloroethane-ug/m3	5.23776	5.67424	108.33%	70	130		
✓	1,1,1-Trichloroethane	0.96	1.04	108.33%	70	130		
✓	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.86684	101.02%	70	130		
✓	Benzene	0.96	0.97	101.04%	70	130		
✓	Chlorobenzene-ug/m3	4.55796	4.65004	102.02%	70	130		
✓	Chlorobenzene	0.99	1.01	102.02%	70	130		
✓	Carbon tetrachloride-ug/m3	5.97645	6.35391	106.32%	70	130		
✓	Carbon tetrachloride	0.95	1.01	106.32%	70	130		
✓	Carbon disulfide-ug/m3	3.02058	3.23856	107.22%	70	130		
✓	Carbon disulfide	0.97	1.04	107.22%	70	130		
✓	Bromomethane-ug/m3	3.61119	3.883	107.53%	70	130		
✓	Bromomethane	0.93	1	107.53%	70	130		
✓	Bromoform-ug/m3	9.92352	9.82015	98.96%	70	130		
✓	Bromoform	0.96	0.95	98.96%	70	130		
✓	Bromodichloromethane-ug/m3	6.43104	6.36405	98.96%	70	130		
✓	Bromodichloromethane	0.96	0.95	98.96%	70	130		
✓	Benzyl chloride-ug/m3	5.02169	4.6593	92.78%	70	130		
✓	1,3-Dichlorobenzene	0.97	1.01	104.12%	70	130		
✓	2-Propanol	1.01	0.72	71.29%	70	130		
✓	Chlorodibromomethane	0.98	0.95	96.94%	70	130		
✓	1,4-Dioxane	0.96	0.67	69.79%	70	130	*	S
✓	1,4-Dioxane-ug/m3	3.45984	2.41468	69.79%	70	130	*	S
✓	2-Butanone	0.99	0.93	93.94%	70	130		
✓	2-Butanone-ug/m3	2.91951	2.74257	93.94%	70	130		
✓	Benzyl chloride	0.97	0.9	92.78%	70	130		
✓	2-Hexanone-ug/m3	4.01506	2.17141	54.08%	70	130	*	S
✓	Benzene-ug/m3	3.0672	3.09915	101.04%	70	130		
✓	2-Propanol-ug/m3	2.48258	1.76976	71.29%	70	130		
✓	4-Methyl-2-pentanone	1	0.61	61.00%	70	130	*	S
✓	4-Methyl-2-pentanone-ug/m3	4.098	2.49978	61.00%	70	130	*	S
✓	Acetone	1	0.99	99.00%	70	130		
✓	Acetone-ug/m3	2.375	2.35125	99.00%	70	130		
✓	Vinyl chloride-ug/m3	2.40264	2.6838	111.70%	70	130		
✓	2-Hexanone	0.98	0.53	54.08%	70	130	*	S

Total Recoveries Out: 8

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	Dichlorodifluoromethane-ug/m3	49.45	43.3182	87.60%	70	130		
✔	Methylene chloride-ug/m3	34.0452	28.3131	83.16%	70	130		
✔	Methylene chloride	9.8	8.15	83.16%	70	130		
✔	m,p-Xylene-ug/m3	173.68	134.949	77.70%	70	130		
✔	m,p-Xylene	20	15.54	77.70%	70	130		
✔	Hexachlorobutadiene-ug/m3	104.517	59.2974	56.73%	70	130	*	S
✔	Hexachlorobutadiene	9.8	5.56	56.73%	70	130	*	S
✔	Heptane-ug/m3	40.99	35.0465	85.50%	70	130		
✔	Heptane	10	8.55	85.50%	70	130		
✔	Ethylbenzene	10	8.17	81.70%	70	130		
✔	Ethyl benzene-ug/m3	43.42	35.4741	81.70%	70	130		
✔	Ethyl acetate-ug/m3	36.03	29.6167	82.20%	70	130		
✔	Ethyl acetate	10	8.22	82.20%	70	130		
✔	Chlorodibromomethane-ug/m3	85.19	70.2818	82.50%	70	130		
✔	Ethanol	12.2	9.99	81.89%	70	130		
✔	o-Xylene	10	8.2	82.00%	70	130		
✔	Dichlorodifluoromethane	10	8.76	87.60%	70	130		
✔	Cyclohexane-ug/m3	35.1084	28.9472	82.45%	70	130		
✔	Cyclohexane	10.2	8.41	82.45%	70	130		
✔	cis-1,3-Dichloropropene-ug/m3	48.1134	34.9049	72.55%	70	130		
✔	cis-1,3-dichloropropene	10.6	7.69	72.55%	70	130		
✔	cis-1,2-Dichloroethene-ug/m3	39.65	34.4162	86.80%	70	130		
✔	cis-1,2-Dichloroethene	10	8.68	86.80%	70	130		
✔	Chloromethane-ug/m3	21.063	23.7888	112.94%	70	130		
✔	Chloromethane	10.2	11.52	112.94%	70	130		
✔	Chloroform-ug/m3	49.8066	41.5543	83.43%	70	130		
✔	Chloroform	10.2	8.51	83.43%	70	130		
✔	Chloroethane-ug/m3	26.38	18.8881	71.60%	70	130		
✔	Chloroethane	10	7.16	71.60%	70	130		
✔	Ethanol-ug/m3	22.9848	18.8212	81.89%	70	130		
✔	Tetrahydrofuran-ug/m3	29.49	26.4820	89.80%	70	130		
✔	1,1,1-Trichloroethane	10	8.43	84.30%	70	130		
✔	Vinyl chloride-ug/m3	25.56	23.7964	93.10%	70	130		
✔	Vinyl chloride	10	9.31	93.10%	70	130		
✔	Vinyl acetate-ug/m3	35.21	23.3794	66.40%	70	130	*	S
✔	Vinyl acetate	10	6.64	66.40%	70	130	*	S
✔	Trichlorofluoromethane-ug/m3	56.18	49.7193	88.50%	70	130		
✔	Trichlorofluoromethane	10	8.85	88.50%	70	130		
✔	Trichloroethene-ug/m3	73.0864	77.6543	106.25%	70	130		
✔	Trichloroethene	13.6	14.45	106.25%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	trans-1,3-Dichloropropene-ug/m3	42.6666	31.9546	74.89%	70	130		
☑	trans-1,3-dichloropropene	9.4	7.04	74.89%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	39.65	33.306	84.00%	70	130		
☑	trans-1,2-Dichloroethene	10	8.4	84.00%	70	130		
☑	n-Hexane-ug/m3	35.955	28.059	78.04%	70	130		
☑	Styrene-ug/m3	42.6	36.2952	85.20%	70	130		
☑	n-Hexane	10.2	7.96	78.04%	70	130		
☑	o-Xylene-ug/m3	43.42	35.6044	82.00%	70	130		
☑	p-Ethyltoluene	10.6	7.42	70.00%	70	130		
☑	p-Ethyltoluene-ug/m3	52.1096	36.4767	70.00%	70	130		
☑	Propylene	10	10.13	101.30%	70	130		
☑	Toluene-ug/m3	37.69	31.5465	83.70%	70	130		
☑	Styrene	10	8.52	85.20%	70	130		
☑	Toluene	10	8.37	83.70%	70	130		
☑	tert-Butyl Methyl Ether	10	7.35	73.50%	70	130		
☑	tert-Butyl methyl ether-ug/m3	36.05	26.4968	73.50%	70	130		
☑	Tetrachloroethene	10	8.65	86.50%	70	130		
☑	Tetrachloroethene-ug/m3	67.82	58.6643	86.50%	70	130		
☑	Tetrahydrofuran	10	8.98	89.80%	70	130		
☑	Naphthalene-ug/m3	52.42	38.5287	73.50%	70	130		
☑	Propylene-ug/m3	17.21	17.4337	101.30%	70	130		
☑	1,2,4-Trimethylbenzene	10	7.58	75.80%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	60.12	46.4728	77.30%	70	130		
☑	1,3-Dichlorobenzene	10	7.73	77.30%	70	130		
☑	1,3-Butadiene-ug/m3	22.12	20.4831	92.60%	70	130		
☑	1,3-Butadiene	10	9.26	92.60%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	49.16	37.165	75.60%	70	130		
☑	1,3,5-Trimethylbenzene	10	7.56	75.60%	70	130		
☑	1,2-Dichloropropane-ug/m3	46.21	37.1066	80.30%	70	130		
☑	1,2-Dichloropropane	10	8.03	80.30%	70	130		
☑	1,2-Dichloroethane-ug/m3	40.47	32.4165	80.10%	70	130		
☑	1,2-Dichloroethane	10	8.01	80.10%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	60.12	45.3906	75.50%	70	130		
☑	1,1,2,2-Tetrachloroethane	4.17	1.38	33.09%	70	130	*	S
☑	1,4-Dichlorobenzene	10.2	7.77	76.18%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	49.16	37.2633	75.80%	70	130		
☑	1,2-Dichlorobenzene	10	7.55	75.50%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	78.6626	51.7244	65.75%	70	130	*	S
☑	1,2,4-Trichlorobenzene	10.6	6.97	65.75%	70	130	*	S
☑	1,1-Dichloroethene-ug/m3	39.65	32.4337	81.80%	70	130		
☑	1,1-Dichloroethene	10	8.18	81.80%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1-Dichloroethane-ug/m3	40.47	35.4113	87.50%	70	130		
☑	1,1-Dichloroethane	10	8.75	87.50%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	54.56	42.1203	77.20%	70	130		
☑	1,1,2-Trichloroethane	10	7.72	77.20%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	66.6768	88.78%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	8.7	88.78%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	9.4737	33.09%	70	130	*	S
☑	Chlorodibromomethane	10	8.25	82.50%	70	130		
☑	Naphthalene	10	7.35	73.50%	70	130		
☑	1,2-Dibromoethane-ug/m3	76.88	51.5096	67.00%	70	130	*	S
☑	Carbon disulfide	10	8.51	85.10%	70	130		
☑	Benzyl chloride	5.4	2.35	43.52%	70	130	*	S
☑	Benzyl chloride-ug/m3	27.9558	12.166	43.52%	70	130	*	S
☑	Bromodichloromethane	10.2	8.54	83.73%	70	130		
☑	Bromodichloromethane-ug/m3	68.3298	57.2095	83.73%	70	130		
☑	Bromoform	9.8	7.78	79.39%	70	130		
☑	Bromoform-ug/m3	101.303	80.4219	79.39%	70	130		
☑	Benzene-ug/m3	31.95	25.0808	78.50%	70	130		
☑	Bromomethane-ug/m3	38.83	19.6868	50.70%	70	130	*	S
☑	Carbon tetrachloride-ug/m3	62.91	53.7881	85.50%	70	130		
☑	Carbon disulfide-ug/m3	31.14	26.5001	85.10%	70	130		
☑	Carbon tetrachloride	10	8.55	85.50%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	61.3224	46.7132	76.18%	70	130		
☑	Chlorobenzene	10	7.71	77.10%	70	130		
☑	1,2-Dibromoethane	10	6.7	67.00%	70	130	*	S
☑	Chlorobenzene-ug/m3	46.04	35.4968	77.10%	70	130		
☑	Bromomethane	10	5.07	50.70%	70	130	*	S
☑	1,4-Dioxane	10	8.14	81.40%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	54.56	45.9941	84.30%	70	130		
☑	1,4-Dioxane-ug/m3	36.04	29.3366	81.40%	70	130		
☑	2-Butanone	10.2	8.25	80.88%	70	130		
☑	2-Butanone-ug/m3	30.0798	24.3293	80.88%	70	130		
☑	2-Hexanone	10	12.71	127.10%	70	130		
☑	2-Hexanone-ug/m3	40.97	52.0729	127.10%	70	130		
☑	2-Propanol-ug/m3	24.58	23.5231	95.70%	70	130		
☑	4-Methyl-2-pentanone	10.6	9.47	89.34%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	43.4388	38.8081	89.34%	70	130		
☑	Acetone	10	7.64	76.40%	70	130		
☑	Acetone-ug/m3	23.75	18.145	76.40%	70	130		
☑	Benzene	10	7.85	78.50%	70	130		
☑	2-Propanol	10	9.57	95.70%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual

Total Recoveries Out: 14

752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dioxane	0.96	0.94	97.92%	70	130		
☑	Acetone	1	0.99	99.00%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.62272	64.00%	70	130	*	S
☑	4-Methyl-2-pentanone	1	0.64	64.00%	70	130	*	S
☑	2-Propanol-ug/m3	2.48258	1.99098	80.20%	70	130		
☑	2-Propanol	1.01	0.81	80.20%	70	130		
☑	2-Hexanone-ug/m3	4.01506	2.90887	72.45%	70	130		
☑	2-Hexanone	0.98	0.71	72.45%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.62461	89.90%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	6.012	104.17%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	3.38776	97.92%	70	130		
☑	Acetone-ug/m3	2.375	2.35125	99.00%	70	130		
☑	Bromomethane	0.93	0.94	101.08%	70	130		
☑	2-Butanone	0.99	0.89	89.90%	70	130		
☑	Benzene	0.96	0.95	98.96%	70	130		
☑	Benzene-ug/m3	3.0672	3.03525	98.96%	70	130		
☑	Benzyl chloride	0.97	0.84	86.60%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	4.34868	86.60%	70	130		
☑	Bromodichloromethane	0.96	0.93	96.88%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	6.23007	96.88%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	5.97645	100.00%	70	130		
☑	Bromoform-ug/m3	9.92352	9.92352	100.00%	70	130		
☑	1,4-Dichlorobenzene	0.96	1	104.17%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.65002	101.08%	70	130		
☑	Carbon disulfide	0.97	1	103.09%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.114	103.09%	70	130		
☑	Carbon tetrachloride	0.95	0.95	100.00%	70	130		
☑	Chlorobenzene	0.99	0.99	100.00%	70	130		
☑	Bromoform	0.96	0.96	100.00%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.43408	98.98%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.34688	102.08%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.1236	105.05%	70	130		
☑	1,1-Dichloroethene	0.99	1.04	105.05%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	3.84465	97.94%	70	130		
☑	1,1-Dichloroethane	0.97	0.95	97.94%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.63996	83.52%	70	130		
☑	1,1,2-Trichloroethane	0.98	0.95	96.94%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,2,4-Trimethylbenzene	0.98	0.97	98.98%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	0.97	98.98%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.10985	89.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.89	89.00%	70	130		
☑	1,1,1-Trichloroethane	0.96	0.98	102.08%	70	130		
☑	Chlorodibromomethane	0.98	0.93	94.90%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	7.92267	94.90%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.1832	96.94%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	3.96606	101.03%	70	130		
☑	1,3-Dichlorobenzene	0.97	0.98	101.03%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.36684	109.18%	70	130		
☑	1,3-Butadiene	0.98	1.07	109.18%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.96516	104.12%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	1.01	104.12%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.76	83.52%	70	130		
☑	1,2-Dichloropropane	0.98	0.94	95.92%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	5.89176	101.03%	70	130		
☑	1,2-Dichloroethane	0.97	0.98	101.03%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	5.77152	98.97%	70	130		
☑	1,2-Dichlorobenzene	0.97	0.96	98.97%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	7.22672	97.92%	70	130		
☑	1,2-Dibromoethane	0.96	0.94	97.92%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.76852	98.98%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.34374	95.92%	70	130		
☑	Toluene	0.98	0.97	98.98%	70	130		
☑	Naphthalene-ug/m3	4.82264	4.50812	93.48%	70	130		
☑	o-Xylene	1	1	100.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.342	100.00%	70	130		
☑	p-Ethyltoluene	0.98	0.98	100.00%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	4.81768	100.00%	70	130		
☑	Propylene	1.02	1.07	104.90%	70	130		
☑	Propylene-ug/m3	1.75542	1.84147	104.90%	70	130		
☑	Styrene	0.98	0.97	98.98%	70	130		
☑	Styrene-ug/m3	4.1748	4.1322	98.98%	70	130		
☑	tert-Butyl Methyl Ether	0.99	0.97	97.98%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.49685	97.98%	70	130		
☑	Tetrachloroethene	0.96	1	104.17%	70	130		
☑	Naphthalene	0.92	0.86	93.48%	70	130		
☑	Tetrahydrofuran	1	0.88	88.00%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	6.782	104.17%	70	130		
☑	Toluene-ug/m3	3.69362	3.65593	98.98%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,2-Dichloroethene	0.98	0.99	101.02%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	3.92535	101.02%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.83	91.21%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	3.76737	91.21%	70	130		
☑	Trichloroethene	0.96	0.94	97.92%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.05156	97.92%	70	130		
☑	Trichlorofluoromethane	0.96	0.99	103.13%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	5.56182	103.13%	70	130		
☑	Vinyl acetate	0.99	0.85	85.86%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	2.99285	85.86%	70	130		
☑	Vinyl chloride	0.94	1.02	108.51%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	4.55796	100.00%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.60712	108.51%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	4.03971	93.68%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	2.59512	88.00%	70	130		
☑	n-Hexane-ug/m3	3.56025	3.4545	97.03%	70	130		
☑	Chloroform	0.98	1	102.04%	70	130		
☑	Chloroform-ug/m3	4.78534	4.883	102.04%	70	130		
☑	Chloromethane	0.95	1.03	108.42%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.12695	108.42%	70	130		
☑	cis-1,2-Dichloroethene	0.98	0.94	95.92%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.89	93.68%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.40058	98.91%	70	130		
☑	Cyclohexane	0.98	0.98	100.00%	70	130		
☑	Cyclohexane-ug/m3	3.37316	3.37316	100.00%	70	130		
☑	Dichlorodifluoromethane	0.92	0.94	102.17%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.6483	102.17%	70	130		
☑	Chloroethane	0.92	0.91	98.91%	70	130		
☑	Methylene chloride	1	1.08	108.00%	70	130		
☑	n-Hexane	1.01	0.98	97.03%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.7271	95.92%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.75192	108.00%	70	130		
☑	Ethanol	0.92	0.97	105.43%	70	130		
☑	m,p-Xylene-ug/m3	16.6733	17.0206	102.08%	70	130		
☑	m,p-Xylene	1.92	1.96	102.08%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	8.7453	87.23%	70	130		
☑	Hexachlorobutadiene	0.94	0.82	87.23%	70	130		
☑	Heptane-ug/m3	4.05801	4.13999	102.02%	70	130		
☑	Heptane	0.99	1.01	102.02%	70	130		
☑	Ethylbenzene	0.98	0.99	101.02%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.29858	101.02%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Ethyl acetate-ug/m3	3.53094	2.81034	79.59%	70	130		
☑	Ethyl acetate	0.98	0.78	79.59%	70	130		
☑	Ethanol-ug/m3	1.73328	1.82748	105.43%	70	130		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	m,p-Xylene-ug/m3	16.6733	16.7601	100.52%	70	130		
☑	Ethyl acetate	0.98	0.77	78.57%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	2.77431	78.57%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.21174	98.98%	70	130		
☑	Ethylbenzene	0.98	0.97	98.98%	70	130		
☑	Heptane	0.99	1.97	198.99%	70	130	*	S
☑	Heptane-ug/m3	4.05801	8.07503	198.99%	70	130	*	S
☑	Hexachlorobutadiene	0.94	0.84	89.36%	70	130		
☑	Methylene chloride-ug/m3	3.474	4.20354	121.00%	70	130		
☑	m,p-Xylene	1.92	1.93	100.52%	70	130		
☑	Ethanol-ug/m3	1.73328	1.54488	89.13%	70	130		
☑	Methylene chloride	1	1.21	121.00%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	8.9586	89.36%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.68745	94.90%	70	130		
☑	n-Hexane	1.01	3.29	325.74%	70	130	*	S
☑	Chloroethane	0.92	1.04	113.04%	70	130		
☑	Chloroform	0.98	0.98	100.00%	70	130		
☑	Chloroform-ug/m3	4.78534	4.78534	100.00%	70	130		
☑	Chloromethane	0.95	1.1	115.79%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.74352	113.04%	70	130		
☑	cis-1,2-Dichloroethene	0.98	0.93	94.90%	70	130		
☑	Ethanol	0.92	0.82	89.13%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.81	85.26%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	3.67659	85.26%	70	130		
☑	Cyclohexane	0.98	3.15	321.43%	70	130	*	S
☑	Cyclohexane-ug/m3	3.37316	10.8423	321.43%	70	130	*	S
☑	Dichlorodifluoromethane	0.92	1.01	109.78%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.99445	109.78%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.2715	115.79%	70	130		
☑	Trichloroethene-ug/m3	5.15904	4.94408	95.83%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	2.67596	76.77%	70	130		
☑	Toluene-ug/m3	3.69362	9.72402	263.27%	70	130	*	S
☑	trans-1,2-Dichloroethene	0.98	1.02	104.08%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.0443	104.08%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.75	82.42%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✓	Tetrahydrofuran-ug/m3	2.949	4.15809	141.00%	70	130	*	S
✓	Trichloroethene	0.96	0.92	95.83%	70	130		
✓	Tetrahydrofuran	1	1.41	141.00%	70	130	*	S
✓	Trichlorofluoromethane	0.96	1.06	110.42%	70	130		
✓	Trichlorofluoromethane-ug/m3	5.39328	5.95508	110.42%	70	130		
✓	Vinyl acetate	0.99	0.76	76.77%	70	130		
✓	Chlorodibromomethane-ug/m3	8.34862	7.24115	86.73%	70	130		
✓	Vinyl chloride	0.94	1.07	113.83%	70	130		
✓	1,3-Dichlorobenzene-ug/m3	5.83164	5.59116	95.88%	70	130		
✓	trans-1,3-Dichloropropene-ug/m3	4.13049	3.40425	82.42%	70	130		
✓	Propylene-ug/m3	1.75542	2.16846	123.53%	70	130		
✓	Naphthalene	0.92	0.7	76.09%	70	130		
✓	Naphthalene-ug/m3	4.82264	3.6694	76.09%	70	130		
✓	o-Xylene	1	0.96	96.00%	70	130		
✓	o-Xylene-ug/m3	4.342	4.16832	96.00%	70	130		
✓	p-Ethyltoluene	0.98	0.92	93.88%	70	130		
✓	Toluene	0.98	2.58	263.27%	70	130	*	S
✓	Propylene	1.02	1.26	123.53%	70	130		
✓	n-Hexane-ug/m3	3.56025	11.5973	325.74%	70	130	*	S
✓	Styrene	0.98	0.89	90.82%	70	130		
✓	Styrene-ug/m3	4.1748	3.7914	90.82%	70	130		
✓	tert-Butyl Methyl Ether	0.99	0.91	91.92%	70	130		
✓	tert-Butyl methyl ether-ug/m3	3.56895	3.28055	91.92%	70	130		
✓	Tetrachloroethene	0.96	0.96	100.00%	70	130		
✓	Tetrachloroethene-ug/m3	6.51072	6.51072	100.00%	70	130		
✓	p-Ethyltoluene-ug/m3	4.81768	4.52272	93.88%	70	130		
✓	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.26891	78.02%	70	130		
✓	1,3-Butadiene-ug/m3	2.16776	2.49956	115.31%	70	130		
✓	1,3-Butadiene	0.98	1.13	115.31%	70	130		
✓	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.62104	96.91%	70	130		
✓	1,3,5-Trimethylbenzene	0.97	0.94	96.91%	70	130		
✓	1,2-Dichloropropane-ug/m3	4.52858	3.92785	86.73%	70	130		
✓	1,2-Dichloropropane	0.98	0.85	86.73%	70	130		
✓	1,2-Dichloroethane-ug/m3	3.92559	3.76371	95.88%	70	130		
✓	1,2-Dichloroethane	0.97	0.93	95.88%	70	130		
✓	1,2-Dichlorobenzene-ug/m3	5.83164	5.47092	93.81%	70	130		
✓	1,2-Dichlorobenzene	0.97	0.91	93.81%	70	130		
✓	1,2-Dibromoethane-ug/m3	7.38048	6.61168	89.58%	70	130		
✓	1,2-Dibromoethane	0.96	0.86	89.58%	70	130		
✓	1,4-Dichlorobenzene-ug/m3	5.77152	5.7114	98.96%	70	130		
✓	1,2,4-Trimethylbenzene	0.98	0.91	92.86%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dichlorobenzene	0.96	0.95	98.96%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.71	78.02%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.4408	113.13%	70	130		
☑	1,1-Dichloroethene	0.99	1.12	113.13%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	3.76371	95.88%	70	130		
☑	1,1-Dichloroethane	0.97	0.93	95.88%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	4.69216	87.76%	70	130		
☑	1,1,2-Trichloroethane	0.98	0.86	87.76%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.81728	104.08%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.02	104.08%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	5.56065	81.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.81	81.00%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.23776	100.00%	70	130		
☑	1,1,1-Trichloroethane	0.96	0.96	100.00%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.47356	92.86%	70	130		
☑	Benzene	0.96	2.04	212.50%	70	130	*	S
☑	Chlorobenzene-ug/m3	4.55796	4.18964	91.92%	70	130		
☑	Chlorobenzene	0.99	0.91	91.92%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	5.97645	100.00%	70	130		
☑	Carbon tetrachloride	0.95	0.95	100.00%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.30084	109.28%	70	130		
☑	Carbon disulfide	0.97	1.06	109.28%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.96066	109.68%	70	130		
☑	Bromomethane	0.93	1.02	109.68%	70	130		
☑	Bromoform-ug/m3	9.92352	9.09656	91.67%	70	130		
☑	Bromoform	0.96	0.88	91.67%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	5.82813	90.63%	70	130		
☑	Bromodichloromethane	0.96	0.87	90.63%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	4.03806	80.41%	70	130		
☑	1,3-Dichlorobenzene	0.97	0.93	95.88%	70	130		
☑	2-Propanol	1.01	0.81	80.20%	70	130		
☑	Chlorodibromomethane	0.98	0.85	86.73%	70	130		
☑	1,4-Dioxane	0.96	0.66	68.75%	70	130	*	S
☑	1,4-Dioxane-ug/m3	3.45984	2.37864	68.75%	70	130	*	S
☑	2-Butanone	0.99	0.89	89.90%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.62461	89.90%	70	130		
☑	Benzyl chloride	0.97	0.78	80.41%	70	130		
☑	2-Hexanone-ug/m3	4.01506	2.66305	66.33%	70	130	*	S
☑	Benzene-ug/m3	3.0672	6.5178	212.50%	70	130	*	S
☑	2-Propanol-ug/m3	2.48258	1.99098	80.20%	70	130		
☑	4-Methyl-2-pentanone	1	0.63	63.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.58174	63.00%	70	130	*	S
☑	Acetone	1	1.1	110.00%	70	130		
☑	Acetone-ug/m3	2.375	2.6125	110.00%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.73492	113.83%	70	130		
☑	2-Hexanone	0.98	0.65	66.33%	70	130	*	S

Total Recoveries Out: 18

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Dichlorodifluoromethane-ug/m3	49.45	42.6754	86.30%	70	130		
☑	Methylene chloride-ug/m3	34.0452	29.0079	85.20%	70	130		
☑	Methylene chloride	9.8	8.35	85.20%	70	130		
☑	m,p-Xylene-ug/m3	173.68	138.336	79.65%	70	130		
☑	m,p-Xylene	20	15.93	79.65%	70	130		
☑	Hexachlorobutadiene-ug/m3	104.517	62.2836	59.59%	70	130	*	S
☑	Hexachlorobutadiene	9.8	5.84	59.59%	70	130	*	S
☑	Heptane-ug/m3	40.99	36.5631	89.20%	70	130		
☑	Heptane	10	8.92	89.20%	70	130		
☑	Ethylbenzene	10	8.36	83.60%	70	130		
☑	Ethyl benzene-ug/m3	43.42	36.2991	83.60%	70	130		
☑	Ethyl acetate-ug/m3	36.03	28.824	80.00%	70	130		
☑	Ethyl acetate	10	8	80.00%	70	130		
☑	Chlorodibromomethane-ug/m3	85.19	70.7929	83.10%	70	130		
☑	Ethanol	12.2	10.03	82.21%	70	130		
☑	o-Xylene	10	8.32	83.20%	70	130		
☑	Dichlorodifluoromethane	10	8.63	86.30%	70	130		
☑	Cyclohexane-ug/m3	35.1084	29.5324	84.12%	70	130		
☑	Cyclohexane	10.2	8.58	84.12%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	48.1134	34.9957	72.74%	70	130		
☑	cis-1,3-dichloropropene	10.6	7.71	72.74%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	39.65	34.6938	87.50%	70	130		
☑	cis-1,2-Dichloroethene	10	8.75	87.50%	70	130		
☑	Chloromethane-ug/m3	21.063	23.0041	109.22%	70	130		
☑	Chloromethane	10.2	11.14	109.22%	70	130		
☑	Chloroform-ug/m3	49.8066	41.9938	84.31%	70	130		
☑	Chloroform	10.2	8.6	84.31%	70	130		
☑	Chloroethane-ug/m3	26.38	19.1255	72.50%	70	130		
☑	Chloroethane	10	7.25	72.50%	70	130		
☑	Ethanol-ug/m3	22.9848	18.8965	82.21%	70	130		
☑	Tetrahydrofuran-ug/m3	29.49	26.7474	90.70%	70	130		
☑	1,1,1-Trichloroethane	10	8.53	85.30%	70	130		
☑	Vinyl chloride-ug/m3	25.56	22.6973	88.80%	70	130		
☑	Vinyl chloride	10	8.88	88.80%	70	130		
☑	Vinyl acetate-ug/m3	35.21	23.2034	65.90%	70	130	*	S
☑	Vinyl acetate	10	6.59	65.90%	70	130	*	S
☑	Trichlorofluoromethane-ug/m3	56.18	50.6744	90.20%	70	130		
☑	Trichlorofluoromethane	10	9.02	90.20%	70	130		
☑	Trichloroethene-ug/m3	73.0864	79.1590	108.31%	70	130		
☑	Trichloroethene	13.6	14.73	108.31%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,3-Dichloropropene-ug/m3	42.6666	32.2269	75.53%	70	130		
☑	trans-1,3-dichloropropene	9.4	7.1	75.53%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	39.65	34.1783	86.20%	70	130		
☑	trans-1,2-Dichloroethene	10	8.62	86.20%	70	130		
☑	n-Hexane-ug/m3	35.955	28.7288	79.90%	70	130		
☑	Styrene-ug/m3	42.6	36.8064	86.40%	70	130		
☑	n-Hexane	10.2	8.15	79.90%	70	130		
☑	o-Xylene-ug/m3	43.42	36.1254	83.20%	70	130		
☑	p-Ethyltoluene	10.6	7.55	71.23%	70	130		
☑	p-Ethyltoluene-ug/m3	52.1096	37.1158	71.23%	70	130		
☑	Propylene	10	10.03	100.30%	70	130		
☑	Toluene-ug/m3	37.69	32.0365	85.00%	70	130		
☑	Styrene	10	8.64	86.40%	70	130		
☑	Toluene	10	8.5	85.00%	70	130		
☑	tert-Butyl Methyl Ether	10	7.38	73.80%	70	130		
☑	tert-Butyl methyl ether-ug/m3	36.05	26.6049	73.80%	70	130		
☑	Tetrachloroethene	10	8.9	89.00%	70	130		
☑	Tetrachloroethene-ug/m3	67.82	60.3598	89.00%	70	130		
☑	Tetrahydrofuran	10	9.07	90.70%	70	130		
☑	Naphthalene-ug/m3	52.42	40.6255	77.50%	70	130		
☑	Propylene-ug/m3	17.21	17.2616	100.30%	70	130		
☑	1,2,4-Trimethylbenzene	10	7.81	78.10%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	60.12	48.096	80.00%	70	130		
☑	1,3-Dichlorobenzene	10	8	80.00%	70	130		
☑	1,3-Butadiene-ug/m3	22.12	19.9744	90.30%	70	130		
☑	1,3-Butadiene	10	9.03	90.30%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	49.16	38.2465	77.80%	70	130		
☑	1,3,5-Trimethylbenzene	10	7.78	77.80%	70	130		
☑	1,2-Dichloropropane-ug/m3	46.21	37.5225	81.20%	70	130		
☑	1,2-Dichloropropane	10	8.12	81.20%	70	130		
☑	1,2-Dichloroethane-ug/m3	40.47	33.1449	81.90%	70	130		
☑	1,2-Dichloroethane	10	8.19	81.90%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	60.12	47.4948	79.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	4.17	1.38	33.09%	70	130	*	S
☑	1,4-Dichlorobenzene	10.2	8.02	78.63%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	49.16	38.394	78.10%	70	130		
☑	1,2-Dichlorobenzene	10	7.9	79.00%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	78.6626	53.8023	68.40%	70	130	*	S
☑	1,2,4-Trichlorobenzene	10.6	7.25	68.40%	70	130	*	S
☑	1,1-Dichloroethene-ug/m3	39.65	33.2267	83.80%	70	130		
☑	1,1-Dichloroethene	10	8.38	83.80%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,1-Dichloroethane-ug/m3	40.47	35.7350	88.30%	70	130		
✔	1,1-Dichloroethane	10	8.83	88.30%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	54.56	42.6659	78.20%	70	130		
✔	1,1,2-Trichloroethane	10	7.82	78.20%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	69.0526	91.94%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	9.01	91.94%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	9.4737	33.09%	70	130	*	S
✔	Chlorodibromomethane	10	8.31	83.10%	70	130		
✔	Naphthalene	10	7.75	77.50%	70	130		
✔	1,2-Dibromoethane-ug/m3	76.88	51.7402	67.30%	70	130	*	S
✔	Carbon disulfide	10	8.44	84.40%	70	130		
✔	Benzyl chloride	5.4	2.35	43.52%	70	130	*	S
✔	Benzyl chloride-ug/m3	27.9558	12.166	43.52%	70	130	*	S
✔	Bromodichloromethane	10.2	8.6	84.31%	70	130		
✔	Bromodichloromethane-ug/m3	68.3298	57.6114	84.31%	70	130		
✔	Bromoform	9.8	7.98	81.43%	70	130		
✔	Bromoform-ug/m3	101.303	82.4893	81.43%	70	130		
✔	Benzene-ug/m3	31.95	25.2725	79.10%	70	130		
✔	Bromomethane-ug/m3	38.83	19.881	51.20%	70	130	*	S
✔	Carbon tetrachloride-ug/m3	62.91	54.4172	86.50%	70	130		
✔	Carbon disulfide-ug/m3	31.14	26.2822	84.40%	70	130		
✔	Carbon tetrachloride	10	8.65	86.50%	70	130		
✔	1,4-Dichlorobenzene-ug/m3	61.3224	48.2162	78.63%	70	130		
✔	Chlorobenzene	10	7.87	78.70%	70	130		
✔	1,2-Dibromoethane	10	6.73	67.30%	70	130	*	S
✔	Chlorobenzene-ug/m3	46.04	36.2335	78.70%	70	130		
✔	Bromomethane	10	5.12	51.20%	70	130	*	S
✔	1,4-Dioxane	10	7.96	79.60%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	54.56	46.5397	85.30%	70	130		
✔	1,4-Dioxane-ug/m3	36.04	28.6878	79.60%	70	130		
✔	2-Butanone	10.2	8.03	78.73%	70	130		
✔	2-Butanone-ug/m3	30.0798	23.6805	78.73%	70	130		
✔	2-Hexanone	10	12.47	124.70%	70	130		
✔	2-Hexanone-ug/m3	40.97	51.0896	124.70%	70	130		
✔	2-Propanol-ug/m3	24.58	23.4985	95.60%	70	130		
✔	4-Methyl-2-pentanone	10.6	9.54	90.00%	70	130		
✔	4-Methyl-2-pentanone-ug/m3	43.4388	39.0949	90.00%	70	130		
✔	Acetone	10	7.75	77.50%	70	130		
✔	Acetone-ug/m3	23.75	18.4063	77.50%	70	130		
✔	Benzene	10	7.91	79.10%	70	130		
✔	2-Propanol	10	9.56	95.60%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual

Total Recoveries Out: 14

753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dioxane	0.96	1	104.17%	70	130		
☑	Acetone	1	1.03	103.00%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.8686	70.00%	70	130		
☑	4-Methyl-2-pentanone	1	0.7	70.00%	70	130		
☑	2-Propanol-ug/m3	2.48258	2.11388	85.15%	70	130		
☑	2-Propanol	1.01	0.86	85.15%	70	130		
☑	2-Hexanone-ug/m3	4.01506	3.23663	80.61%	70	130		
☑	2-Hexanone	0.98	0.79	80.61%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.949	101.01%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	6.67332	115.63%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	3.604	104.17%	70	130		
☑	Acetone-ug/m3	2.375	2.44625	103.00%	70	130		
☑	Bromomethane	0.93	1.01	108.60%	70	130		
☑	2-Butanone	0.99	1	101.01%	70	130		
☑	Benzene	0.96	0.97	101.04%	70	130		
☑	Benzene-ug/m3	3.0672	3.09915	101.04%	70	130		
☑	Benzyl chloride	0.97	0.91	93.81%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	4.71107	93.81%	70	130		
☑	Bromodichloromethane	0.96	0.97	101.04%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	6.49803	101.04%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	6.22809	104.21%	70	130		
☑	Bromoform-ug/m3	9.92352	10.5437	106.25%	70	130		
☑	1,4-Dichlorobenzene	0.96	1.11	115.63%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.92183	108.60%	70	130		
☑	Carbon disulfide	0.97	1.03	106.19%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.20742	106.19%	70	130		
☑	Carbon tetrachloride	0.95	0.99	104.21%	70	130		
☑	Chlorobenzene	0.99	1.04	105.05%	70	130		
☑	Bromoform	0.96	1.02	106.25%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.664	102.04%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.56512	106.25%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.32185	110.10%	70	130		
☑	1,1-Dichloroethene	0.99	1.09	110.10%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	3.96606	101.03%	70	130		
☑	1,1-Dichloroethane	0.97	0.98	101.03%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	6.38206	94.51%	70	130		
☑	1,1,2-Trichloroethane	0.98	0.99	101.02%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	1.05	107.14%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1	102.04%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.52175	95.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.95	95.00%	70	130		
☑	1,1,1-Trichloroethane	0.96	1.02	106.25%	70	130		
☑	Chlorodibromomethane	0.98	0.98	100.00%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	8.34862	100.00%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.40144	101.02%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	4.20888	107.22%	70	130		
☑	1,3-Dichlorobenzene	0.97	1.07	110.31%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.45532	113.27%	70	130		
☑	1,3-Butadiene	0.98	1.11	113.27%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	5.35844	112.37%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	1.09	112.37%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.86	94.51%	70	130		
☑	1,2-Dichloropropane	0.98	0.98	100.00%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	6.43284	110.31%	70	130		
☑	1,2-Dichloroethane	0.97	1.04	107.22%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	6.3126	108.25%	70	130		
☑	1,2-Dichlorobenzene	0.97	1.05	108.25%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	7.53424	102.08%	70	130		
☑	1,2-Dibromoethane	0.96	0.98	102.08%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	5.1618	107.14%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.52858	100.00%	70	130		
☑	Toluene	0.98	1.04	106.12%	70	130		
☑	Naphthalene-ug/m3	4.82264	5.18958	107.61%	70	130		
☑	o-Xylene	1	1.07	107.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.64594	107.00%	70	130		
☑	p-Ethyltoluene	0.98	1.07	109.18%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	5.26012	109.18%	70	130		
☑	Propylene	1.02	1.13	110.78%	70	130		
☑	Propylene-ug/m3	1.75542	1.94473	110.78%	70	130		
☑	Styrene	0.98	1.02	104.08%	70	130		
☑	Styrene-ug/m3	4.1748	4.3452	104.08%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.01	102.02%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.64105	102.02%	70	130		
☑	Tetrachloroethene	0.96	1.08	112.50%	70	130		
☑	Naphthalene	0.92	0.99	107.61%	70	130		
☑	Tetrahydrofuran	1	0.94	94.00%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	7.32456	112.50%	70	130		
☑	Toluene-ug/m3	3.69362	3.91976	106.12%	70	130		
☑	trans-1,2-Dichloroethene	0.98	1.03	105.10%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.08395	105.10%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.86	94.51%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	3.90354	94.51%	70	130		
☑	Trichloroethene	0.96	1	104.17%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.374	104.17%	70	130		
☑	Trichlorofluoromethane	0.96	1.05	109.38%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	5.8989	109.38%	70	130		
☑	Vinyl acetate	0.99	0.86	86.87%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	3.02806	86.87%	70	130		
☑	Vinyl chloride	0.94	1.05	111.70%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	4.78816	105.05%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.6838	111.70%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	4.22127	97.89%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	2.77206	94.00%	70	130		
☑	n-Hexane-ug/m3	3.56025	3.70125	103.96%	70	130		
☑	Chloroform	0.98	1.04	106.12%	70	130		
☑	Chloroform-ug/m3	4.78534	5.07832	106.12%	70	130		
☑	Chloromethane	0.95	1.05	110.53%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.16825	110.53%	70	130		
☑	cis-1,2-Dichloroethene	0.98	0.98	100.00%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.93	97.89%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.55886	105.43%	70	130		
☑	Cyclohexane	0.98	1.03	105.10%	70	130		
☑	Cyclohexane-ug/m3	3.37316	3.54526	105.10%	70	130		
☑	Dichlorodifluoromethane	0.92	1	108.70%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.945	108.70%	70	130		
☑	Chloroethane	0.92	0.97	105.43%	70	130		
☑	Methylene chloride	1	1.12	112.00%	70	130		
☑	n-Hexane	1.01	1.05	103.96%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.8857	100.00%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.89088	112.00%	70	130		
☑	Ethanol	0.92	1.03	111.96%	70	130		
☑	m,p-Xylene-ug/m3	16.6733	18.2364	109.38%	70	130		
☑	m,p-Xylene	1.92	2.1	109.38%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	9.70515	96.81%	70	130		
☑	Hexachlorobutadiene	0.94	0.91	96.81%	70	130		
☑	Heptane-ug/m3	4.05801	4.42692	109.09%	70	130		
☑	Heptane	0.99	1.08	109.09%	70	130		
☑	Ethylbenzene	0.98	1.06	108.16%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.60252	108.16%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	2.95446	83.67%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Ethyl acetate	0.98	0.82	83.67%	70	130		
☑	Ethanol-ug/m3	1.73328	1.94052	111.96%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	m,p-Xylene-ug/m3	16.6733	18.7574	112.50%	70	130		
☑	Ethyl acetate	0.98	0.78	79.59%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	2.81034	79.59%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.60252	108.16%	70	130		
☑	Ethylbenzene	0.98	1.06	108.16%	70	130		
☑	Heptane	0.99	3.47	350.51%	70	130	*	S
☑	Heptane-ug/m3	4.05801	14.2235	350.51%	70	130	*	S
☑	Hexachlorobutadiene	0.94	0.85	90.43%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.8214	110.00%	70	130		
☑	m,p-Xylene	1.92	2.16	112.50%	70	130		
☑	Ethanol-ug/m3	1.73328	1.6014	92.39%	70	130		
☑	Methylene chloride	1	1.1	110.00%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	9.06525	90.43%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.68745	94.90%	70	130		
☑	n-Hexane	1.01	7.4	732.67%	70	130	*	S
☑	Chloroethane	0.92	1	108.70%	70	130		
☑	Chloroform	0.98	1	102.04%	70	130		
☑	Chloroform-ug/m3	4.78534	4.883	102.04%	70	130		
☑	Chloromethane	0.95	1.15	121.05%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.638	108.70%	70	130		
☑	cis-1,2-Dichloroethene	0.98	0.93	94.90%	70	130		
☑	Ethanol	0.92	0.85	92.39%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.79	83.16%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	3.58581	83.16%	70	130		
☑	Cyclohexane	0.98	7.12	726.53%	70	130	*	S
☑	Cyclohexane-ug/m3	3.37316	24.5070	726.53%	70	130	*	S
☑	Dichlorodifluoromethane	0.92	1	108.70%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.945	108.70%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.37475	121.05%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.05156	97.92%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	2.64075	75.76%	70	130		
☑	Toluene-ug/m3	3.69362	10.0255	271.43%	70	130	*	S
☑	trans-1,2-Dichloroethene	0.98	0.98	100.00%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	3.8857	100.00%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.74	81.32%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	6.90066	234.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	Trichloroethene	0.96	0.94	97.92%	70	130		
✔	Tetrahydrofuran	1	2.34	234.00%	70	130	*	S
✔	Trichlorofluoromethane	0.96	1.07	111.46%	70	130		
✔	Trichlorofluoromethane-ug/m3	5.39328	6.01126	111.46%	70	130		
✔	Vinyl acetate	0.99	0.75	75.76%	70	130		
✔	Chlorodibromomethane-ug/m3	8.34862	7.41153	88.78%	70	130		
✔	Vinyl chloride	0.94	1.12	119.15%	70	130		
✔	1,3-Dichlorobenzene-ug/m3	5.83164	5.59116	95.88%	70	130		
✔	trans-1,3-Dichloropropene-ug/m3	4.13049	3.35886	81.32%	70	130		
✔	Propylene-ug/m3	1.75542	2.16846	123.53%	70	130		
✔	Naphthalene	0.92	0.65	70.65%	70	130		
✔	Naphthalene-ug/m3	4.82264	3.4073	70.65%	70	130		
✔	o-Xylene	1	1.03	103.00%	70	130		
✔	o-Xylene-ug/m3	4.342	4.47226	103.00%	70	130		
✔	p-Ethyltoluene	0.98	0.98	100.00%	70	130		
✔	Toluene	0.98	2.66	271.43%	70	130	*	S
✔	Propylene	1.02	1.26	123.53%	70	130		
✔	n-Hexane-ug/m3	3.56025	26.085	732.67%	70	130	*	S
✔	Styrene	0.98	0.91	92.86%	70	130		
✔	Styrene-ug/m3	4.1748	3.8766	92.86%	70	130		
✔	tert-Butyl Methyl Ether	0.99	0.91	91.92%	70	130		
✔	tert-Butyl methyl ether-ug/m3	3.56895	3.28055	91.92%	70	130		
✔	Tetrachloroethene	0.96	0.99	103.13%	70	130		
✔	Tetrachloroethene-ug/m3	6.51072	6.71418	103.13%	70	130		
✔	p-Ethyltoluene-ug/m3	4.81768	4.81768	100.00%	70	130		
✔	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.04628	74.73%	70	130		
✔	1,3-Butadiene-ug/m3	2.16776	2.61016	120.41%	70	130		
✔	1,3-Butadiene	0.98	1.18	120.41%	70	130		
✔	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.76852	100.00%	70	130		
✔	1,3,5-Trimethylbenzene	0.97	0.97	100.00%	70	130		
✔	1,2-Dichloropropane-ug/m3	4.52858	4.02027	88.78%	70	130		
✔	1,2-Dichloropropane	0.98	0.87	88.78%	70	130		
✔	1,2-Dichloroethane-ug/m3	3.92559	3.88512	98.97%	70	130		
✔	1,2-Dichloroethane	0.97	0.96	98.97%	70	130		
✔	1,2-Dichlorobenzene-ug/m3	5.83164	5.47092	93.81%	70	130		
✔	1,2-Dichlorobenzene	0.97	0.91	93.81%	70	130		
✔	1,2-Dibromoethane-ug/m3	7.38048	6.68856	90.63%	70	130		
✔	1,2-Dibromoethane	0.96	0.87	90.63%	70	130		
✔	1,4-Dichlorobenzene-ug/m3	5.77152	5.65128	97.92%	70	130		
✔	1,2,4-Trimethylbenzene	0.98	0.97	98.98%	70	130		
✔	1,4-Dichlorobenzene	0.96	0.94	97.92%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,2,4-Trichlorobenzene	0.91	0.68	74.73%	70	130		
✔	1,1-Dichloroethene-ug/m3	3.92535	4.24255	108.08%	70	130		
✔	1,1-Dichloroethene	0.99	1.07	108.08%	70	130		
✔	1,1-Dichloroethane-ug/m3	3.92559	3.68277	93.81%	70	130		
✔	1,1-Dichloroethane	0.97	0.91	93.81%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	5.34688	4.85584	90.82%	70	130		
✔	1,1,2-Trichloroethane	0.98	0.89	90.82%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.43408	98.98%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	0.97	98.98%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	6.865	5.6293	82.00%	70	130		
✔	1,1,2,2-Tetrachloroethane	1	0.82	82.00%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	5.23776	5.34688	102.08%	70	130		
✔	1,1,1-Trichloroethane	0.96	0.98	102.08%	70	130		
✔	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.76852	98.98%	70	130		
✔	Benzene	0.96	2.5	260.42%	70	130	*	S
✔	Chlorobenzene-ug/m3	4.55796	4.32776	94.95%	70	130		
✔	Chlorobenzene	0.99	0.94	94.95%	70	130		
✔	Carbon tetrachloride-ug/m3	5.97645	5.85063	97.89%	70	130		
✔	Carbon tetrachloride	0.95	0.93	97.89%	70	130		
✔	Carbon disulfide-ug/m3	3.02058	3.30084	109.28%	70	130		
✔	Carbon disulfide	0.97	1.06	109.28%	70	130		
✔	Bromomethane-ug/m3	3.61119	4.03832	111.83%	70	130		
✔	Bromomethane	0.93	1.04	111.83%	70	130		
✔	Bromoform-ug/m3	9.92352	8.99319	90.63%	70	130		
✔	Bromoform	0.96	0.87	90.63%	70	130		
✔	Bromodichloromethane-ug/m3	6.43104	6.0291	93.75%	70	130		
✔	Bromodichloromethane	0.96	0.9	93.75%	70	130		
✔	Benzyl chloride-ug/m3	5.02169	3.93452	78.35%	70	130		
✔	1,3-Dichlorobenzene	0.97	0.93	95.88%	70	130		
✔	2-Propanol	1.01	0.8	79.21%	70	130		
✔	Chlorodibromomethane	0.98	0.87	88.78%	70	130		
✔	1,4-Dioxane	0.96	0.66	68.75%	70	130	*	S
✔	1,4-Dioxane-ug/m3	3.45984	2.37864	68.75%	70	130	*	S
✔	2-Butanone	0.99	0.88	88.89%	70	130		
✔	2-Butanone-ug/m3	2.91951	2.59512	88.89%	70	130		
✔	Benzyl chloride	0.97	0.76	78.35%	70	130		
✔	2-Hexanone-ug/m3	4.01506	2.82693	70.41%	70	130		
✔	Benzene-ug/m3	3.0672	7.9875	260.42%	70	130	*	S
✔	2-Propanol-ug/m3	2.48258	1.9664	79.21%	70	130		
✔	4-Methyl-2-pentanone	1	0.67	67.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.74566	67.00%	70	130	*	S
☑	Acetone	1	0.98	98.00%	70	130		
☑	Acetone-ug/m3	2.375	2.3275	98.00%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.86272	119.15%	70	130		
☑	2-Hexanone	0.98	0.69	70.41%	70	130		

Total Recoveries Out: 16

Method Blank Contamination Report

Blank ID: MBLK
SeqNo: 752016
Analysis Date: 4/1/2011 3:05:00 PM
Analyst: Rachel Hill

Batch ID: R39600
TestCode: EPA_TO15-UG/M3
RunID: VOA1_110401A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	752013	BFB_TUNE	TUNE	VOA1_110401A	R39600	4/1/2011 11:12:00 AM	1
TO15 CCV 400cc v	752014	EPA_TO15-UG/M3	CCV	VOA1_110401A	R39600	4/1/2011 11:53:00 AM	1
TO15 RLVS 40cc v	752015	EPA_TO15-UG/M3	RLVS	VOA1_110401A	R39600	4/1/2011 2:22:00 PM	1
1103389-001B	752017	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 3:47:00 PM	10
1103389-003B	752018	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 4:32:00 PM	10
1103389-013B	752019	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 5:14:00 PM	10
1103389-013BDUP	752020	EPA_TO15-UG/M3	DUP	VOA1_110401A	R39600	4/1/2011 5:57:00 PM	10
1103389-004B	752021	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 6:40:00 PM	400
1103389-005B	752022	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 7:23:00 PM	400
1103389-006B	752023	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 8:05:00 PM	8000
1103389-007B	752024	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 8:45:00 PM	8000
1103389-008B	752025	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 9:26:00 PM	8000
1103389-009B	752026	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 10:07:00 PM	8000
1103389-010B	752027	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 10:47:00 PM	8000
1103389-011B	752028	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/1/2011 11:28:00 PM	8000
1103389-012B	752029	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/2/2011 12:11:00 AM	400
1103389-014B	752030	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/2/2011 12:54:00 AM	400
1103389-002B	752031	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/2/2011 1:35:00 AM	8000
1103389-031B	752032	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/2/2011 2:16:00 AM	8000
1103389-033B	752034	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/2/2011 8:28:00 AM	10
1103389-032B	752035	EPA_TO15-UG/M3	SAMP	VOA1_110401A	R39600	4/2/2011 9:11:00 AM	8000
TO15 RLVS 40cc v	752572	EPA_TO15-UG/M3	RLVS	VOA1_110401A	R39600	4/2/2011 9:56:00 AM	1

Method Blank Contamination Report

Blank ID: MBLK
SeqNo: 752550
Analysis Date: 4/2/2011 12:43:00 PM
Analyst: Rachel Hill

Batch ID: R39618
TestCode: EPA_TO15-UG/M3
RunID: VOA1_110402A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	752547	BFB_TUNE	TUNE	VOA1_110402A	R39618	4/2/2011 10:40:00 AM	1
TO15 CCV 400cc v	752548	EPA_TO15-UG/M3	CCV	VOA1_110402A	R39618	4/2/2011 11:19:00 AM	1
TO15 RLVS 40cc v	752549	EPA_TO15-UG/M3	RLVS	VOA1_110402A	R39618	4/2/2011 12:00:00 PM	1
1103389-001B	752551	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 2:11:00 PM	20
1103389-015B	752552	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 2:52:00 PM	40
1103389-015BDUP	752553	EPA_TO15-UG/M3	DUP	VOA1_110402A	R39618	4/2/2011 3:33:00 PM	40
1103389-002B	752554	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 4:14:00 PM	20000
1103389-002B	752555	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 4:56:00 PM	40000
1103389-003B	752556	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 5:39:00 PM	200
1103389-004B	752557	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 6:21:00 PM	1600
1103389-005B	752558	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 7:02:00 PM	1600
1103389-006B	752559	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 7:43:00 PM	20000
1103389-007B	752560	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 8:24:00 PM	20000
1103389-010B	752561	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 9:05:00 PM	40000
1103389-012B	752562	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 10:28:00 PM	1600
1103389-014B	752563	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 11:09:00 PM	1600
1103389-016B	752564	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/2/2011 11:51:00 PM	1600
1103389-017B	752565	EPA_TO15-UG/M3	SAMP	VOA1_110402A	R39618	4/3/2011 12:33:00 AM	1600
TO15 RLVS 40cc v	752566	EPA_TO15-UG/M3	RLVS	VOA1_110402A	R39618	4/3/2011 1:14:00 AM	1

Method Blank Contamination Report

Blank ID: MBLK
SeqNo: 752963
Analysis Date: 4/5/2011 12:54:00 PM
Analyst: Rachel Hill

Batch ID: R39639
TestCode: EPA_TO15-UG/M3
RunID: VOA1_110405A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	752960	BFB_TUNE	TUNE	VOA1_110405A	R39639	4/5/2011 10:02:00 AM	1
TO15 CCV 400cc v	752961	EPA_TO15-UG/M3	CCV	VOA1_110405A	R39639	4/5/2011 11:27:00 AM	1
TO15 RLVS 40cc v	752962	EPA_TO15-UG/M3	RLVS	VOA1_110405A	R39639	4/5/2011 12:10:00 PM	1
1103389-010B	752964	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 3:06:00 PM	80000
1103389-010BDUP	752965	EPA_TO15-UG/M3	DUP	VOA1_110405A	R39639	4/5/2011 3:48:00 PM	80000
1103389-021B	752966	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 4:30:00 PM	8000
1103389-034B	752967	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 5:13:00 PM	40
1103389-035B	752968	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 5:54:00 PM	40
1103389-036B	752969	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 6:36:00 PM	40
1103389-037B	752970	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 7:19:00 PM	40
1103389-022B	752971	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 8:04:00 PM	20000
1103389-023B	752972	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 8:49:00 PM	40000
1103389-024B	752973	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 9:34:00 PM	40000
1103389-025B	752974	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 10:19:00 PM	40000
1103389-026B	752975	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 11:04:00 PM	80000
1103389-027B	752976	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 12:33:00 AM	40000
1103389-028B	752977	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 1:18:00 AM	20000
1103389-038A	752978	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 2:04:00 AM	24
1103609-001A	752981	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 4:18:00 AM	8000
1103609-006A	752982	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 5:46:00 AM	8000
1103609-007A	752983	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 6:31:00 AM	8000
1103609-008A	752984	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 7:15:00 AM	8000
1103609-009A	752985	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 7:59:00 AM	8000
TO15 RLVS 40cc v	752986	EPA_TO15-UG/M3	RLVS	VOA1_110405A	R39639	4/6/2011 9:31:00 AM	1
1103389-029B	752988	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 2:49:00 AM	8000
1103389-030B	752989	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 3:33:00 AM	8000

Method Blank Contamination Report

Blank ID: MBLK
SeqNo: 753230
Analysis Date: 4/6/2011 1:20:00 PM
Analyst: Rachel Hill

Batch ID: R39665
TestCode: EPA_TO15-UG/M3
RunID: VOA1_110406A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	753227	BFB_TUNE	TUNE	VOA1_110406A	R39665	4/6/2011 10:17:00 AM	1
TO15 CCV 400cc v	753228	EPA_TO15-UG/M3	CCV	VOA1_110406A	R39665	4/6/2011 11:09:00 AM	1
TO15 RLVS 40cc v	753229	EPA_TO15-UG/M3	RLVS	VOA1_110406A	R39665	4/6/2011 11:53:00 AM	1
1103389-018B	753231	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 4:27:00 PM	8000
1103389-019B	753232	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 5:50:00 PM	8000
1103389-019BDUP	753233	EPA_TO15-UG/M3	DUP	VOA1_110406A	R39665	4/6/2011 6:33:00 PM	8000
1103389-020B	753234	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 7:15:00 PM	8000
1103389-021B	753235	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 7:58:00 PM	160000
1103389-022B	753236	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 9:23:00 PM	40000
1103389-023B	753237	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 10:06:00 PM	80000
1103389-025B	753238	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 10:48:00 PM	160000
1103389-026B	753239	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 11:31:00 PM	160000
1103389-027B	753240	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 12:13:00 AM	80000
1103609-017A	753241	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 12:56:00 AM	4000
1103609-008A	753242	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 1:39:00 AM	80000
1103609-009A	753243	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 2:21:00 AM	80000
1103609-005A	753244	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 5:12:00 AM	8000
1103609-010A	753245	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 9:32:00 AM	8000
TO15 RLVS 40cc v	756185	EPA_TO15-UG/M3	RLVS	VOA1_110406A	R39665	4/7/2011 10:15:00 AM	1

Injection Log

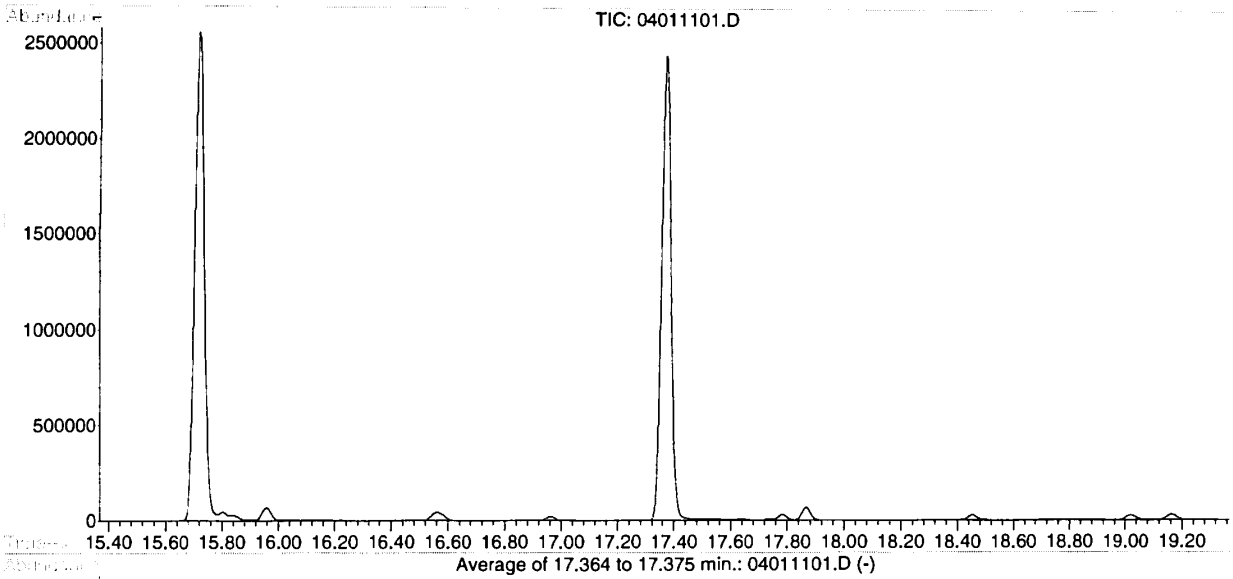
Directory: C:\HPCHEM\1\DATA\040111

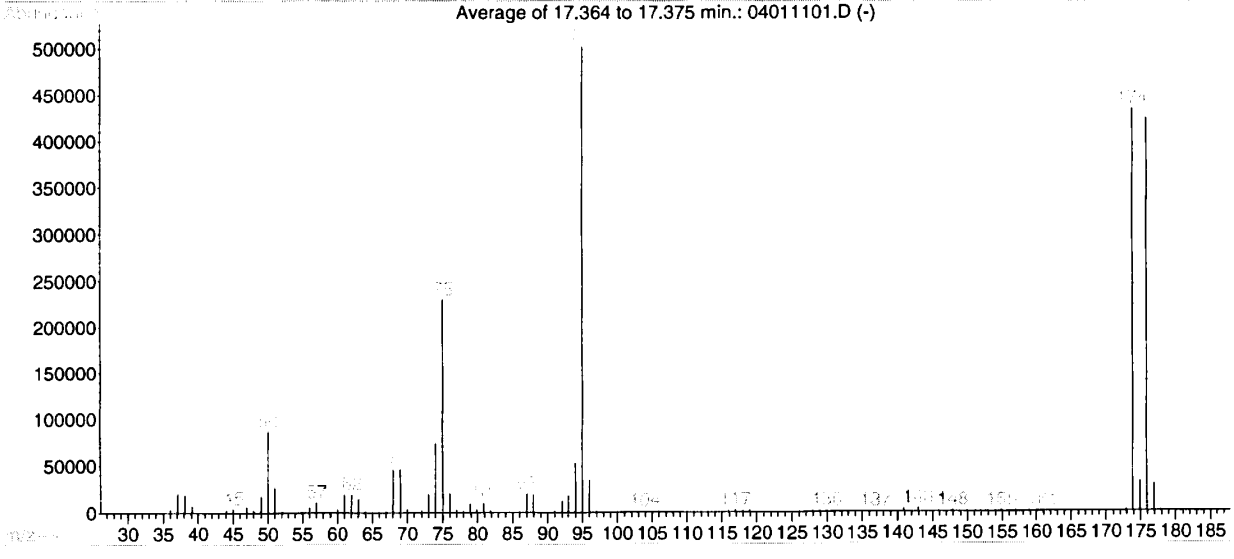
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04011101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	1 Apr 2011 11:12
2	2	04011102.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	1 Apr 2011 11:53
3	3	04011103.d	1.	APH CCV 150cc voa020211b	CCV EPA_TO15-UG/M3	1 Apr 2011 12:45
4	2	04011104.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	1 Apr 2011 14:22
5	2	04011105.d	1.	MBLK	MBLK EPA_TO15-UG/M3	1 Apr 2011 15:05
6	3	04011106.d	10.	1103389-001B	SAMP EPA_TO15-UG/M3	1 Apr 2011 15:47
7	4	04011107.d	10.	1103389-003B	SAMP EPA_TO15-UG/M3	1 Apr 2011 16:32
8	6	04011108.d	10.	1103389-013B	SAMP EPA_TO15-UG/M3	1 Apr 2011 17:14
9	6	04011109.d	10.	1103389-013BDUP	DUP EPA_TO15-UG/M3	1 Apr 2011 17:57
10	7	04011110.d	400.	1103389-004B	SAMP EPA_TO15-UG/M3	1 Apr 2011 18:40
11	8	04011111.d	400.	1103389-005B	SAMP EPA_TO15-UG/M3	1 Apr 2011 19:23
12	9	04011112.d	8000.	1103389-006B	SAMP EPA_TO15-UG/M3	1 Apr 2011 20:05
13	10	04011113.d	8000.	1103389-007B	SAMP EPA_TO15-UG/M3	1 Apr 2011 20:45
14	11	04011114.d	8000.	1103389-008B	SAMP EPA_TO15-UG/M3	1 Apr 2011 21:26
15	12	04011115.d	8000.	1103389-009B	SAMP EPA_TO15-UG/M3	1 Apr 2011 22:07
16	13	04011116.d	8000.	1103389-010B	SAMP EPA_TO15-UG/M3	1 Apr 2011 22:47
17	14	04011117.d	8000.	1103389-011B	SAMP EPA_TO15-UG/M3	1 Apr 2011 23:28
18	15	04011118.d	400.	1103389-012B	SAMP EPA_TO15-UG/M3	2 Apr 2011 00:11
19	16	04011119.d	400.	1103389-014B	SAMP EPA_TO15-UG/M3	2 Apr 2011 00:54
20	1	04011120.d	8000.	1103389-002B	SAMP EPA_TO15-UG/M3	2 Apr 2011 01:35
21	2	04011121.d	8000.	1103389-031B	SAMP EPA_TO15-UG/M3	2 Apr 2011 02:16
22	3	04011122.d	40.	1103389-033B - DATA NOT used which 4/15/11	SAMP EPA_TO15-UG/M3	2 Apr 2011 02:56
23	4	04011123.d	10.	1103389-033B	SAMP EPA_TO15-UG/M3	2 Apr 2011 08:28 -
24	5	04011124.d	8000.	1103389-032B	SAMP EPA_TO15-UG/M3	2 Apr 2011 09:11
25	2	04011125.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	2 Apr 2011 09:56

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040111\04011101.D
Acq On : 1 Apr 2011 11:12 am
Sample : BFB 50cc voa020211c
Misc : TUNE BFB_TUNE
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00





Spectrum Information: Average of 17.364 to 17.375 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	86789	PASS
75	95	30	60	45.8	230187	PASS
95	95	100	100	100.0	502592	PASS
96	95	5	9	6.9	34856	PASS
173	174	0.00	2	0.5	2015	PASS
174	95	50	120	86.5	434944	PASS
175	174	4	9	7.4	32195	PASS
176	174	93	101	97.6	424683	PASS
177	176	5	9	6.9	29213	PASS

04011101.D 031611V1.M Thu Apr 14 11:48:02 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040111\04011102.D Vial: 2
Acq On : 1 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	T	Propylene	0.937	0.974	-3.9	103	0.00
3	T	Dichlorodifluoromethane	3.080	3.073	0.2	98	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.174	4.1	94	0.00
5	T	Chloromethane	1.061	1.341	-26.4	125	0.00
6	T	Vinyl chloride	1.201	1.205	-0.3	96	0.00
7	T	1,3-Butadiene	0.945	0.949	-0.4	98	0.00
8	T	Bromomethane	1.100	0.633	42.5#	56	0.00
9	T	Chloroethane	0.640	0.532	16.9	82	0.00
10	T	Trichlorofluoromethane	2.939	2.875	2.2	96	0.00
11	T	Ethanol	0.208	0.231	-11.1	114	0.00
12	T	Freon113	2.361	2.319	1.8	95	0.00
13	T	1,1-Dichloroethene	1.731	1.565	9.6	88	0.00
14	T	Acetone	1.541	1.358	11.9	93	0.00
15	T	Carbon disulfide	3.087	2.845	7.8	91	0.00
16	T	2-Propanol	1.109	1.158	-4.4	104	0.00
17	T	Methylene chloride	1.259	1.169	7.1	93	0.00
18	T	tert-Butyl Methyl Ether	2.858	2.462	13.9	91	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.598	2.0	96	0.00
20	T	n-Hexane	1.825	1.649	9.6	89	0.00
21	T	1,1-Dichloroethane	2.005	2.049	-2.2	101	0.00
22	T	Vinyl acetate	2.051	1.595	22.2	81	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.132	1.2	97	0.00
24	T	2-Butanone	1.589	1.547	2.6	106	0.00
25	T	Ethyl acetate	1.982	1.959	1.2	105	0.00
26	T	Tetrahydrofuran	1.042	1.075	-3.2	104	0.00
27	T	Chloroform	2.179	2.077	4.7	94	0.00
28	T	1,1,1-Trichloroethane	2.251	2.188	2.8	95	0.00
29	T	Cyclohexane	1.848	1.801	2.5	96	0.00
30	T	Carbon tetrachloride	2.254	2.271	-0.8	99	0.00
31	T	Benzene	3.090	2.859	7.5	96	0.00
32	T	1,2-Dichloroethane	1.244	1.181	5.1	96	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34	T	Heptane	0.604	0.556	7.9	94	0.00
35	T	Trichloroethene	0.426	0.667	-56.6#	161#	0.00
36	T	1,2-Dichloropropane	0.301	0.268	11.0	93	0.00
37	T	1,4-Dioxane	0.120	0.110	8.3	95	0.00
38	T	Bromodichloromethane	0.589	0.561	4.8	98	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.413	10.8	93	0.00
40	T	4-Methyl-2-pentanone	0.138	0.153	-10.9	114	0.00
41	T	Toluene	0.942	0.863	8.4	98	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.331	13.6	90	0.00
43	T	1,1,2-Trichloroethane	0.307	0.265	13.7	90	0.00
44	T	Tetrachloroethene	0.522	0.494	5.4	97	0.00
45	T	2-Hexanone	0.201	0.303	-50.7#	144	0.00
46	T	Chlorodibromomethane	0.515	0.473	8.2	94	0.00
47	T	1,2-Dibromoethane	0.447	0.343	23.3	79	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
49	T	Chlorobenzene	0.879	0.723	17.7	93	0.00
50	T	Ethylbenzene	1.453	1.283	11.7	103	0.00
51	T	m,p-Xylene	1.125	0.954	15.2	96	0.00
52	T	o-Xylene	1.096	0.955	12.9	100	0.00
53	T	Styrene	0.752	0.701	6.8	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040111\04011102.D Vial: 2
Acq On : 1 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.552	12.5	97	0.00
55	S	4-Bromofluorobenzene	0.627	0.598	4.6	97	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.094	84.9#	17#	0.00
57	T	4-Ethyltoluene	1.309	1.070	18.3	96	0.00
58	T	1,3,5-Trimethylbenzene	1.080	0.905	16.2	99	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.823	14.7	98	0.00
60	T	1,3-Dichlorobenzene	0.671	0.589	12.2	100	0.00
61	T	1,4-Dichlorobenzene	0.642	0.573	10.7	101	0.00
62	T	Benzyl chloride	0.420	0.122	71.0#	33#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.511	11.9	102	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.314	4.8	99	0.00
65	T	Hexachlorobutadiene	0.578	0.413	28.5	80	0.00
66		Naphthalene	0.402	0.394	2.0	104	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011102.D
Acq On : 1 Apr 2011 11:53 am
Sample : TO15 CCV 400cc voa010711a
Misc : CCV EPA_TO15-UG/M3
MS Integration Params: CLME.P
Quant Time: Apr 1 13:17 2011

Vial: 2
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	708243	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2567824	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1934220	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1156402	11.93	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.44%				
Target Compounds							Qvalue
2) Propylene	5.68	41	563035	10.60	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1601638	9.18	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1170016	9.11	ppbv		94
5) Chloromethane	6.18	50	721561	12.00	ppbv		100
6) Vinyl chloride	6.39	62	641722	9.43	ppbv		99
7) 1,3-Butadiene	6.45	39	527162	9.84	ppbv		96
8) Bromomethane	7.03	94	333537	5.35	ppbv		99
9) Chloroethane	7.18	64	277233	7.65	ppbv		99
10) Trichlorofluoromethane	7.51	101	1563999	9.39	ppbv		99
11) Ethanol	7.73	45	120464	10.23	ppbv		99
12) Freon113	8.17	101	1287736	9.63	ppbv		96
13) 1,1-Dichloroethene	8.27	61	877959	8.95	ppbv		94
14) Acetone	8.36	43	769710	8.82	ppbv		97
15) Carbon disulfide	8.64	76	1563526	8.94	ppbv	#	100
16) 2-Propanol	8.40	45	662739	10.55	ppbv		91
17) Methylene chloride	8.93	49	662423	9.29	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	1380936	8.53	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	887295	9.61	ppbv		93
20) n-Hexane	9.40	57	943460	9.12	ppbv		95
21) 1,1-Dichloroethane	9.77	63	1126241	9.91	ppbv		99
22) Vinyl acetate	9.70	43	894736	7.70	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	628411	9.68	ppbv		93
24) 2-Butanone	10.42	43	867786	9.64	ppbv		95
25) Ethyl acetate	10.37	43	1087533	9.68	ppbv	#	100
26) Tetrahydrofuran	10.76	42	609208	10.32	ppbv		96
27) Chloroform	10.78	83	1153338	9.34	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1189902	9.33	ppbv		99
29) Cyclohexane	11.04	56	1000071	9.55	ppbv		96
30) Carbon tetrachloride	11.19	117	1222166	9.57	ppbv		99
31) Benzene	11.47	78	1554842	8.88	ppbv		98
32) 1,2-Dichloroethane	11.55	62	649326	9.21	ppbv		99
34) Heptane	11.52	43	1131233	9.12	ppbv		96
35) Trichloroethene	12.20	130	1314403	15.01	ppbv		97
36) 1,2-Dichloropropane	12.56	63	540124	8.74	ppbv		100
37) 1,4-Dioxane	12.64	88	216498	8.80	ppbv		95
38) Bromodichloromethane	12.84	83	1106647	9.14	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	805162	8.47	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	314567	11.13	ppbv		97
41) Toluene	13.81	91	1736849	8.97	ppbv		100
42) trans-1,3-Dichloropropene	14.10	75	618857	7.86	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	533149	8.46	ppbv		98
44) Tetrachloroethene	14.51	166	974089	9.08	ppbv		100
45) 2-Hexanone	14.59	43	610697	14.76	ppbv		99
46) Chlorodibromomethane	14.93	129	951523	9.00	ppbv		100
47) 1,2-Dibromoethane	15.17	107	676778	7.37	ppbv		99
49) Chlorobenzene	15.76	112	1107134	8.14	ppbv		94
50) Ethylbenzene	15.80	91	1945298	8.65	ppbv		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011102.D
Acq On : 1 Apr 2011 11:53 am
Sample : TO15 CCV 400cc voa010711a
Misc : CCV EPA_TO15-UG/M3
MS Integration Params: CLME.P
Quant Time: Apr 1 13:17 2011

Vial: 2
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

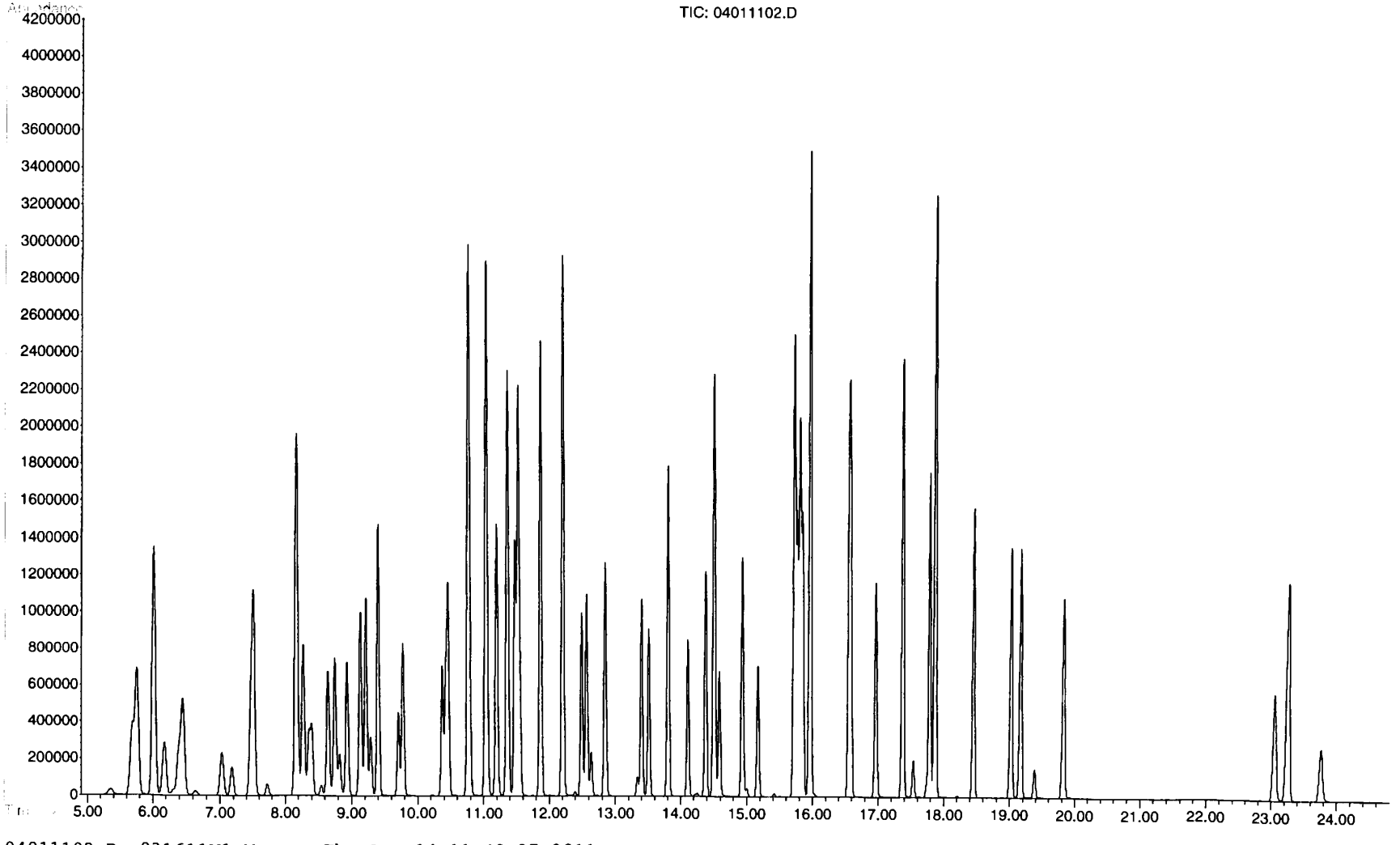
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	2835190	16.28	ppbv		96
52)	o-Xylene	16.55	91	1477775	8.72	ppbv		96
53)	Styrene	16.58	104	1063513	9.14	ppbv		98
54)	Bromoform	16.96	173	819499	8.40	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.54	83	144873	1.51	ppbv		99
57)	4-Ethyltoluene	17.78	105	1622948	8.01	ppbv		98
58)	1,3,5-Trimethylbenzene	17.87	105	1358330	8.13	ppbv	#	56
59)	1,2,4-Trimethylbenzene	18.45	105	1247798	8.36	ppbv		98
60)	1,3-Dichlorobenzene	19.02	146	883546	8.51	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	850974	8.57	ppbv		99
62)	Benzyl chloride	19.37	91	183221	2.82	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	766451	8.54	ppbv		99
64)	1,2,4-Trichlorobenzene	23.04	180	441596	8.64	ppbv		99
65)	Hexachlorobutadiene	23.25	225	600102	6.71	ppbv		99
66)	Naphthalene	23.75	128	560723	9.02	ppbv		99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011102.D Vial: 2
Acq On : 1 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 1 13:17 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011104.D Vial: 2
Acq On : 1 Apr 2011 2:22 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 1 15:47 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	727597	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2669483	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1941160	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1148447	11.80	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 94.40%				
Target Compounds							Qvalue
2) Propylene	5.69	41	63171	1.16	ppbv		99
3) Dichlorodifluoromethane	5.76	85	185913	1.04	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	139211	1.06	ppbv		94
5) Chloromethane	6.18	50	66279	1.07	ppbv	#	94
6) Vinyl chloride	6.39	62	74130	1.06	ppbv	#	99
7) 1,3-Butadiene	6.45	39	64480	1.17	ppbv		93
8) Bromomethane	7.03	94	65491	1.02	ppbv		99
9) Chloroethane	7.18	64	37218	1.00	ppbv	#	98
10) Trichlorofluoromethane	7.51	101	184393	1.08	ppbv		99
11) Ethanol	7.73	45	9836	0.81	ppbv	#	91
12) Freon113	8.17	101	148269	1.08	ppbv		98
13) 1,1-Dichloroethene	8.27	61	112819	1.12	ppbv		94
14) Acetone	8.36	43	109685	1.22	ppbv	#	96
15) Carbon disulfide	8.64	76	193167	1.07	ppbv	#	99
16) 2-Propanol	8.40	45	54632	0.85	ppbv	#	38
17) Methylene chloride	8.93	49	86765	1.18	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	214153	1.29	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	106402	1.12	ppbv		93
20) n-Hexane	9.40	57	122508	1.15	ppbv		95
21) 1,1-Dichloroethane	9.77	63	131517	1.13	ppbv		98
22) Vinyl acetate	9.71	43	160327	1.34	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	73585	1.10	ppbv		93
24) 2-Butanone	10.42	43	117625	1.27	ppbv		92
25) Ethyl acetate	10.37	43	137612	1.19	ppbv	#	100
26) Tetrahydrofuran	10.76	42	65425	1.08	ppbv		94
27) Chloroform	10.78	83	146497	1.16	ppbv		98
28) 1,1,1-Trichloroethane	11.03	97	148652	1.13	ppbv		99
29) Cyclohexane	11.04	56	119380	1.11	ppbv		94
30) Carbon tetrachloride	11.19	117	146604	1.12	ppbv		99
31) Benzene	11.47	78	213241	1.19	ppbv		98
32) 1,2-Dichloroethane	11.55	62	92763	1.28	ppbv		97
34) Heptane	11.52	43	150762	1.17	ppbv		93
35) Trichloroethene	12.21	130	98799	1.09	ppbv		97
36) 1,2-Dichloropropane	12.56	63	78573	1.22	ppbv		99
37) 1,4-Dioxane	12.63	88	25480	1.00	ppbv		98
38) Bromodichloromethane	12.84	83	145353	1.16	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	116447	1.18	ppbv		97
40) 4-Methyl-2-pentanone	13.51	58	26395	0.90	ppbv		96
41) Toluene	13.81	91	249143	1.24	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	92615	1.13	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	79754	1.22	ppbv		98
44) Tetrachloroethene	14.51	166	130684	1.17	ppbv		98
45) 2-Hexanone	14.59	43	30363	0.71	ppbv		96
46) Chlorodibromomethane	14.93	129	130639	1.19	ppbv		99
47) 1,2-Dibromoethane	15.17	107	117313	1.23	ppbv		97
49) Chlorobenzene	15.76	112	163858	1.20	ppbv	#	86
50) Ethylbenzene	15.80	91	275652	1.22	ppbv		94

(#) = qualifier out of range (m) = manual integration
04011104.D 031611V1.M Thu Apr 14 11:49:57 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011104.D Vial: 2
Acq On : 1 Apr 2011 2:22 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 1 15:47 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

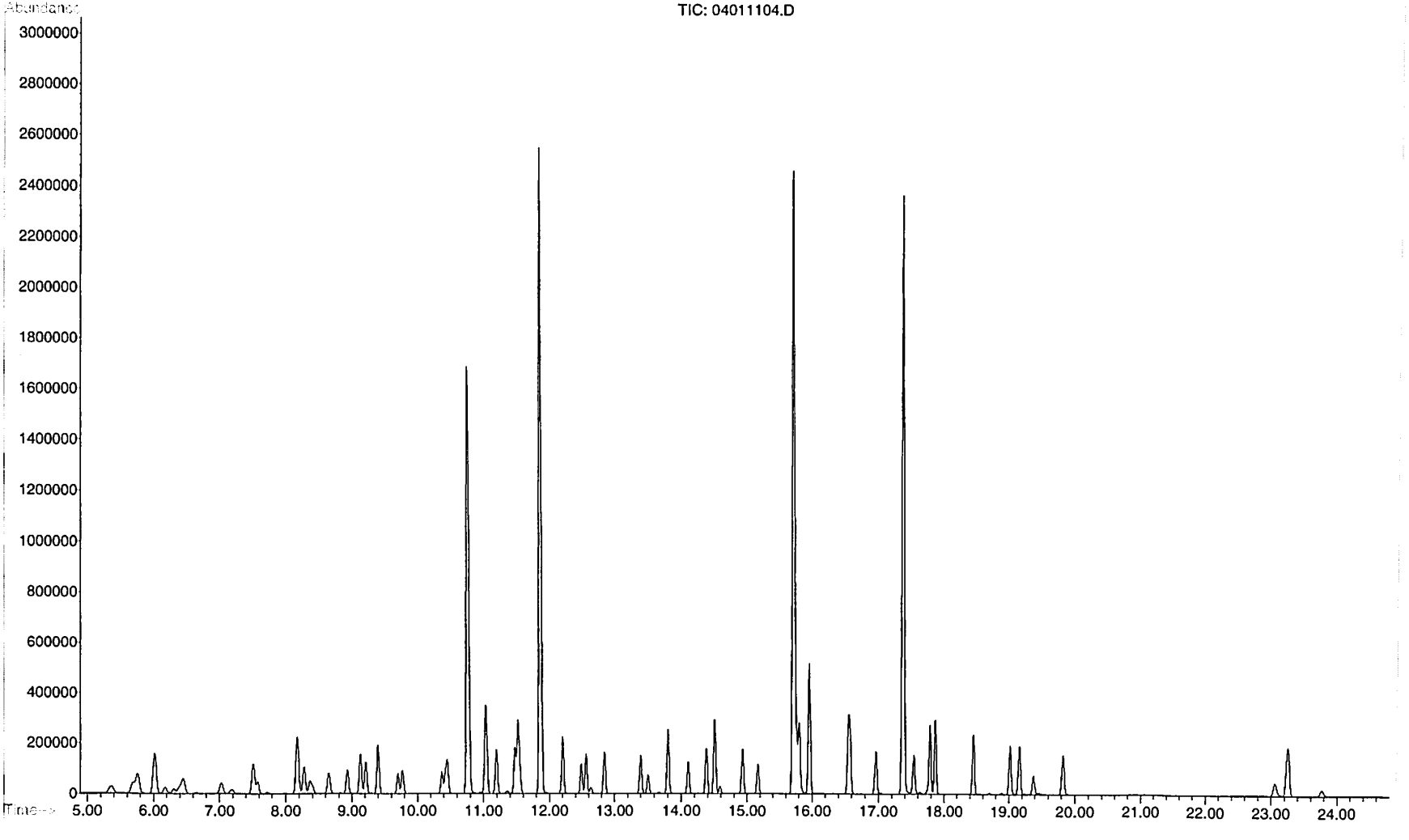
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	426538	2.44	ppbv	93
52) o-Xylene	16.55	91	211208	1.24	ppbv	95
53) Styrene	16.58	104	147556	1.26	ppbv	98
54) Bromoform	16.96	173	120459	1.23	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.54	83	113323	1.17	ppbv	97
57) 4-Ethyltoluene	17.78	105	263545	1.30	ppbv	97
58) 1,3,5-Trimethylbenzene	17.86	105	220488	1.31	ppbv	94
59) 1,2,4-Trimethylbenzene	18.45	105	199184	1.33	ppbv	97
60) 1,3-Dichlorobenzene	19.02	146	138243	1.33	ppbv	97
61) 1,4-Dichlorobenzene	19.16	146	131887	1.32	ppbv	98
62) Benzyl chloride	19.38	91	104267	1.60	ppbv	98
63) 1,2-Dichlorobenzene	19.82	146	117057	1.30	ppbv	98
64) 1,2,4-Trichlorobenzene	23.05	180	50397	0.98	ppbv	96
65) Hexachlorobutadiene	23.25	225	101682	1.13	ppbv	99
66) Naphthalene	23.77	128	61796	0.99	ppbv	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011104.D Vial: 2
Acq On : 1 Apr 2011 2:22 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 1 15:47 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011105.D Vial: 2
Acq On : 1 Apr 2011 3:05 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 1 16:30 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

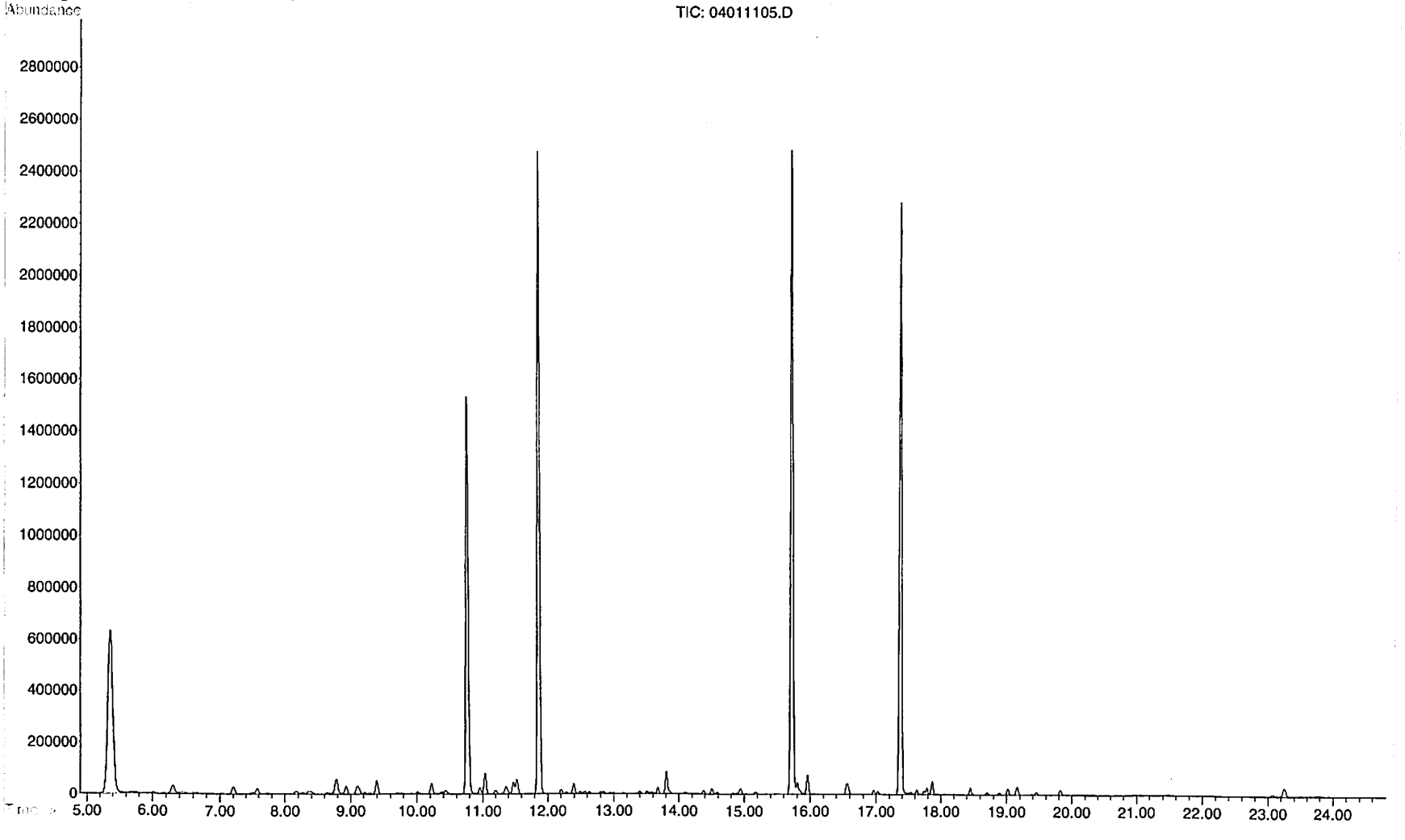
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.77	130	728105	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2636203	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1928791	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1109904	11.48	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 91.84%			
Target Compounds						Qvalue

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011105.D Vial: 2
Acq On : 1 Apr 2011 3:05 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 1 16:30 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:01 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	588173	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2113908	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1644143	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1009385	12.25	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.00%				
Target Compounds							Qvalue
11) Ethanol *	7.75	45	10704	1.09	ppbv	#	73
12) Freon113 *	8.16	101	140107	1.26	ppbv		95
14) Acetone *	8.37	43	1008158	13.91	ppbv	#	96
16) 2-Propanol *	8.43	45	553241	10.60	ppbv	#	1
20) n-Hexane	9.40	57	1806125	21.03	ppbv		99
24) 2-Butanone *	10.44	43	47634	0.64	ppbv	#	88
29) Cyclohexane	11.04	56	2088359	24.01	ppbv	#	82
31) Benzene *	11.48	78	2166020	14.90	ppbv		96
34) Heptane *	11.53	43	706922	6.92	ppbv	#	88
38) Bromodichloromethane *	12.81	83	88403	0.89	ppbv	#	38
41) Toluene *	13.81	91	1565154	9.82	ppbv		99
51) m,p-Xylene *	15.96	91	219867	1.49	ppbv		92
52) o-Xylene *	16.55	91	163666	1.14	ppbv	#	88

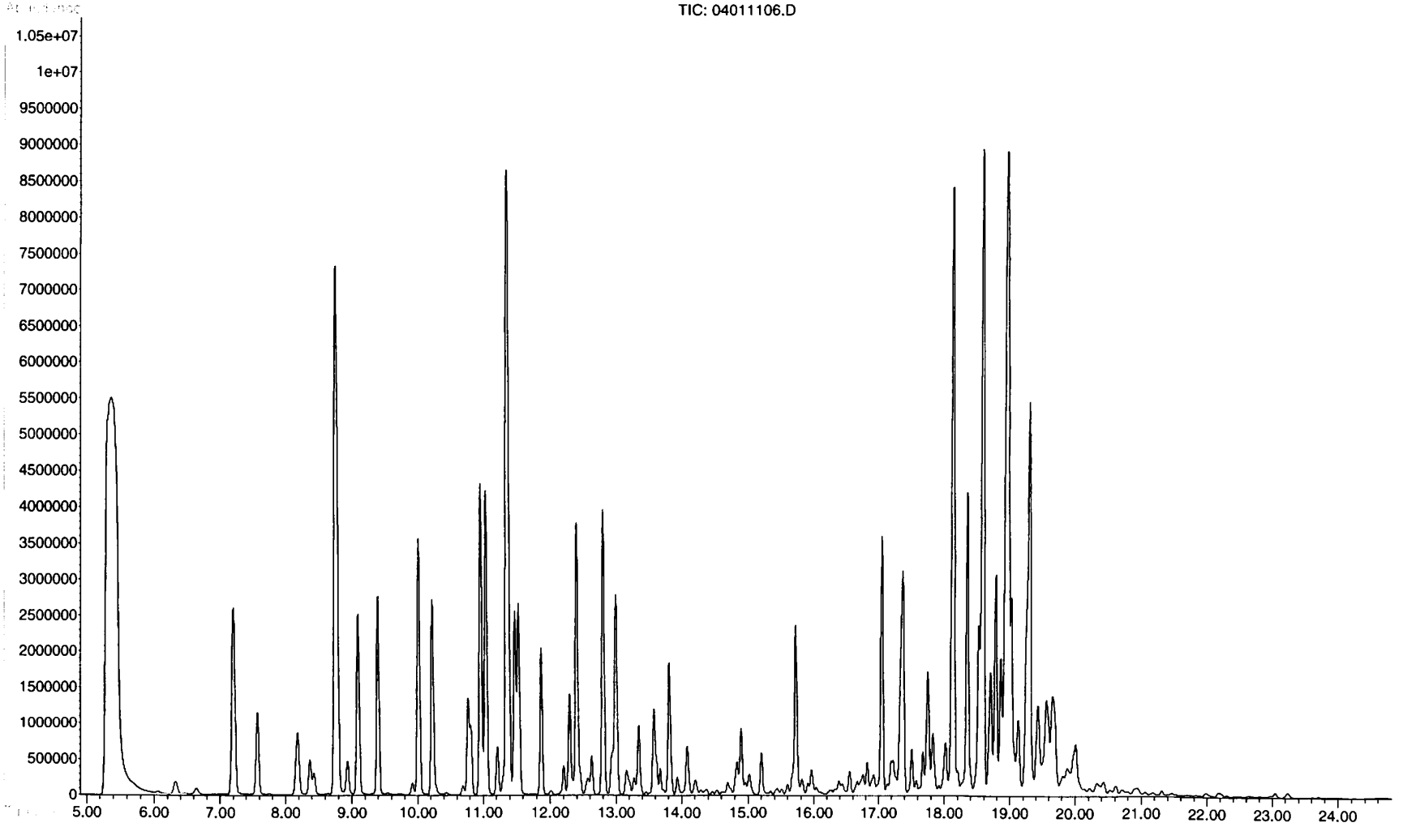
* reported only
n-hexane & cyclohexane not reported
CL
4/15/11

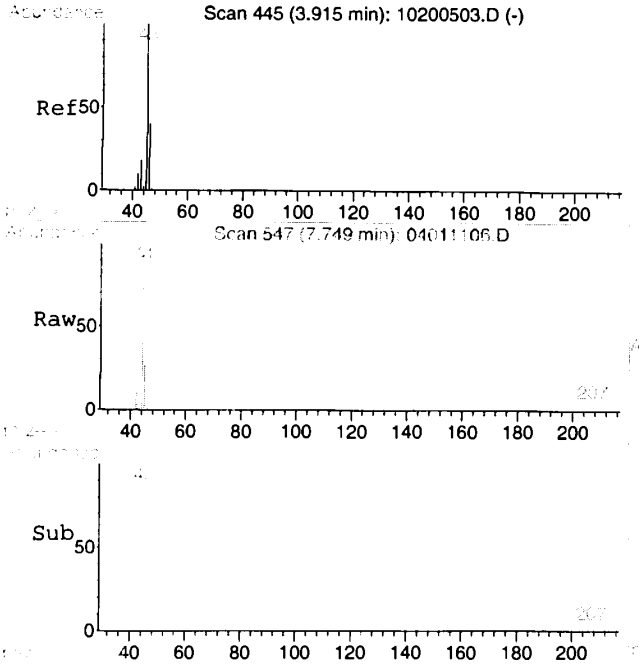
(#) = qualifier out of range (m) = manual integration
04011106.D 031611V1.M Thu Apr 14 11:50:58 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:01 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

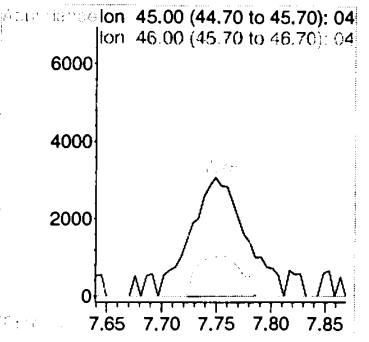


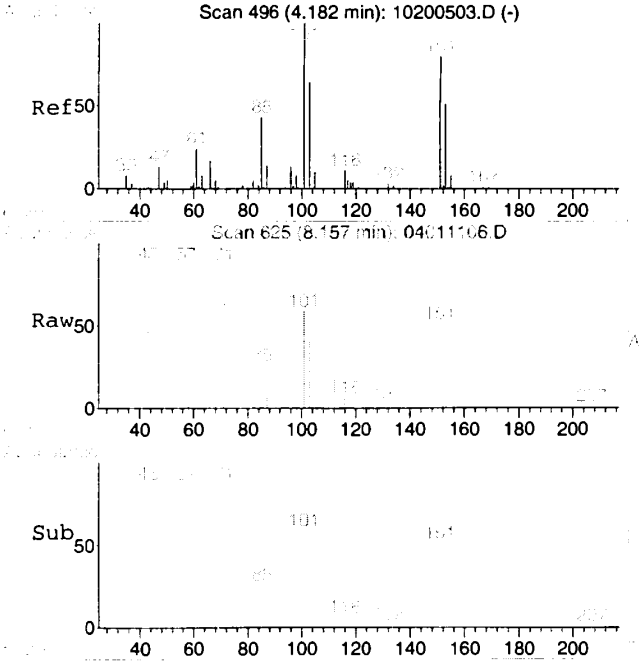


#11
Ethanol
Concen: 1.09 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 45 Resp: 10704

Ion	Ratio	Lower	Upper
45	100		
46	26.8	30.2	45.4#
43	0.0	15.8	23.6#

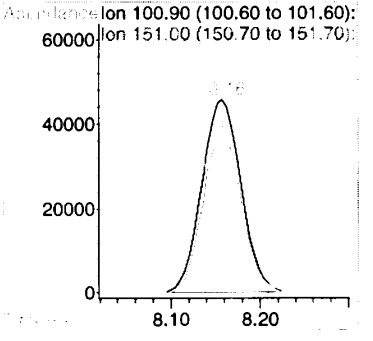


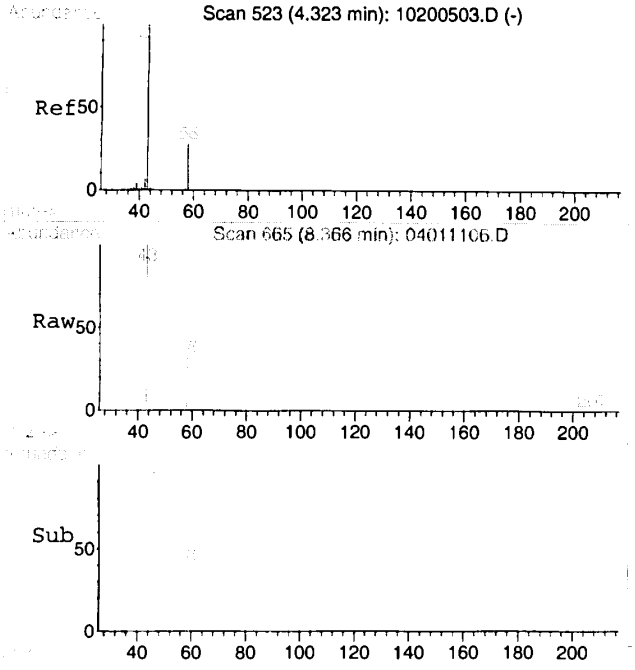


#12
Freon113
Concen: 1.26 ppbv
RT: 8.16 min Scan# 625
Delta R.T. -0.01 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion:101 Resp: 140107

Ion	Ratio	Lower	Upper
101	100		
151	83.0	70.5	105.7
85	41.9	32.0	48.0

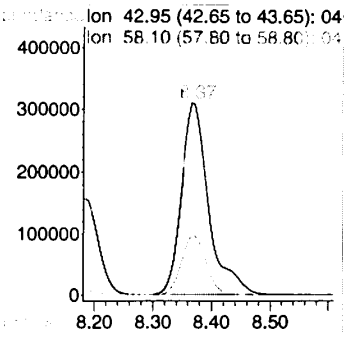


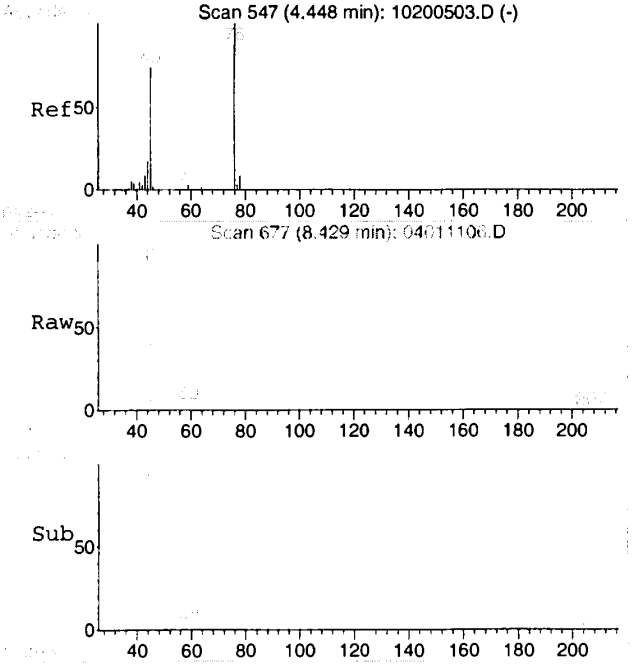


#14
Acetone
Concen: 13.91 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 43 Resp: 1008158

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.0	33.0
39	3.9	6.5	9.7#

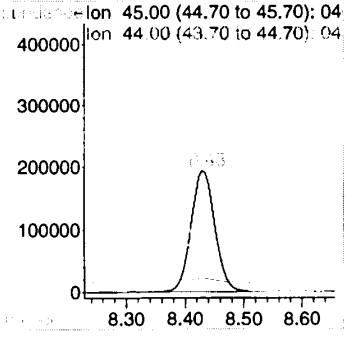


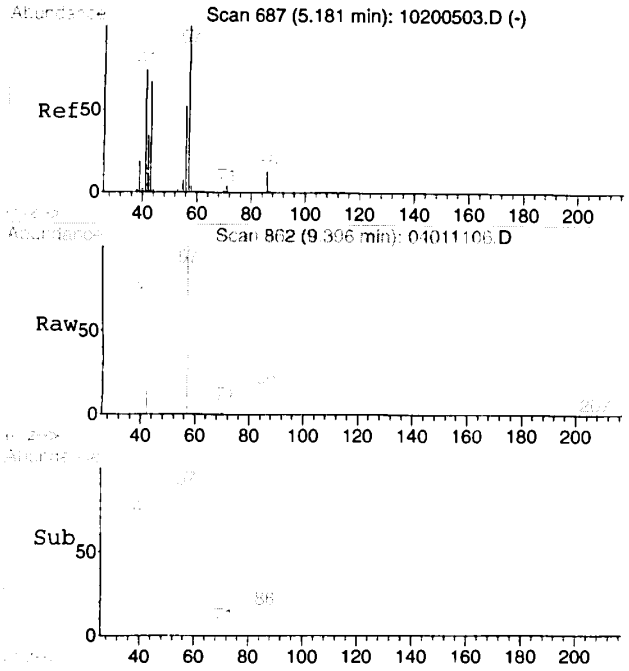


#16
2-Propanol
Concen: 10.60 ppbv
RT: 8.43 min Scan# 677
Delta R.T. 0.03 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 45 Resp: 553241

Ion	Ratio	Lower	Upper
45	100		
44	3.6	5.2	7.8#
43	0.0	101.1	151.7#

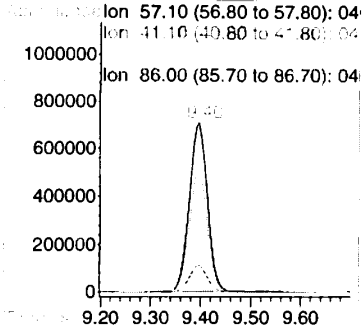


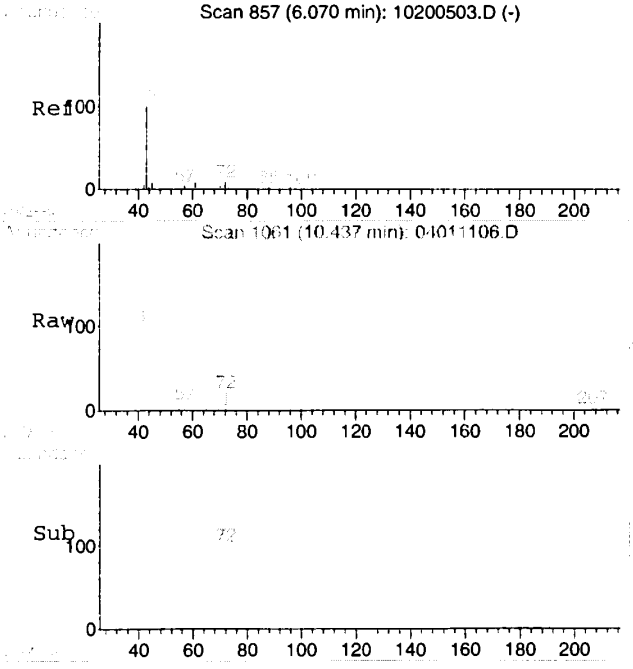


#20
n-Hexane
Concen: 21.03 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 57 Resp: 1806125

Ion	Ratio	Lower	Upper
57	100		
41	71.8	57.2	85.8
53	2.3	1.8	2.8
86	15.5	13.4	20.0

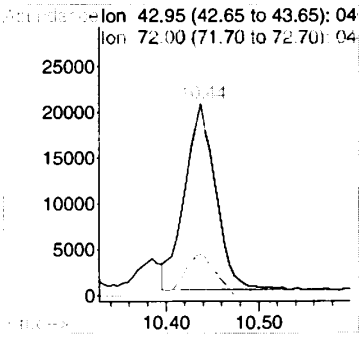


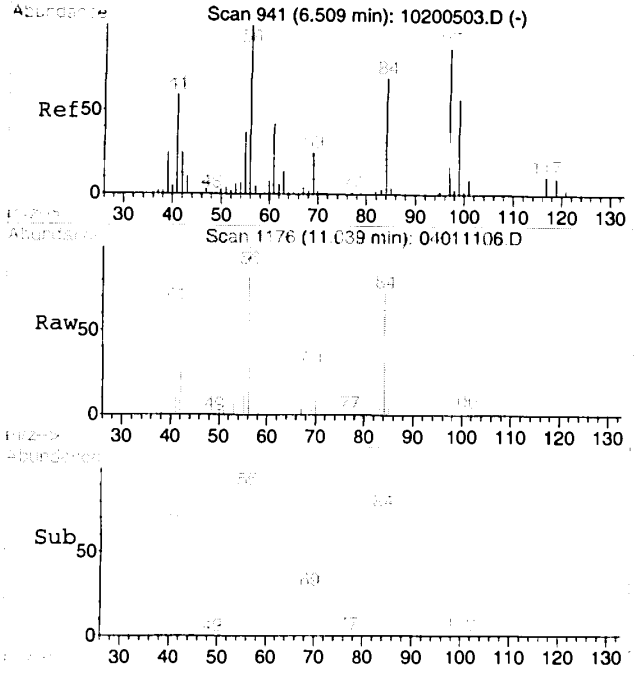


#24
2-Butanone
Concen: 0.64 ppbv
RT: 10.44 min Scan# 1061
Delta R.T. 0.02 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 43 Resp: 47634

Ion	Ratio	Lower	Upper
43	100		
72	21.3	23.4	35.2#
57	9.0	6.9	10.3

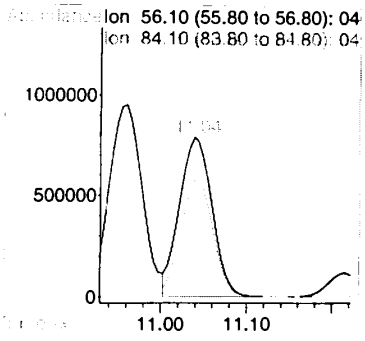


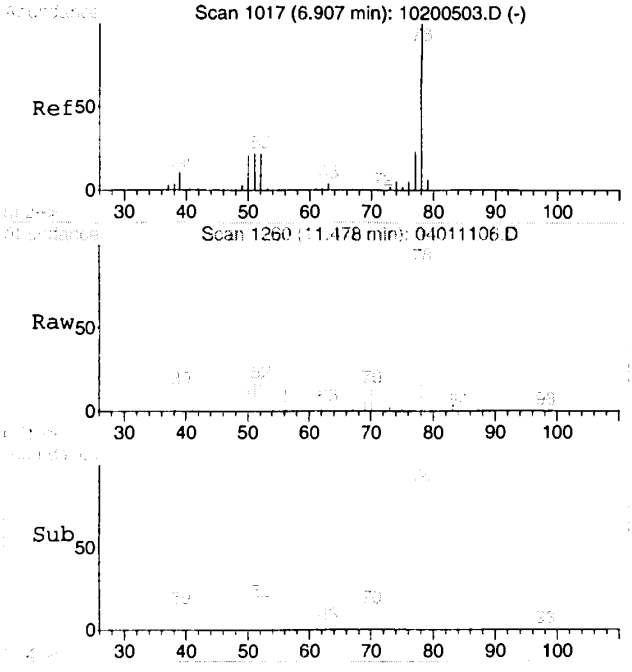


#29
Cyclohexane
Concen: 24.01 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 56 Resp: 2088359

Ion	Ratio	Lower	Upper
56	100		
84	73.2	72.4	108.6
41	67.1	43.8	65.8#

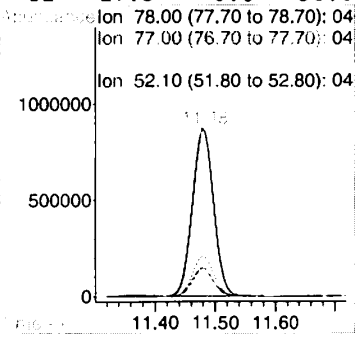


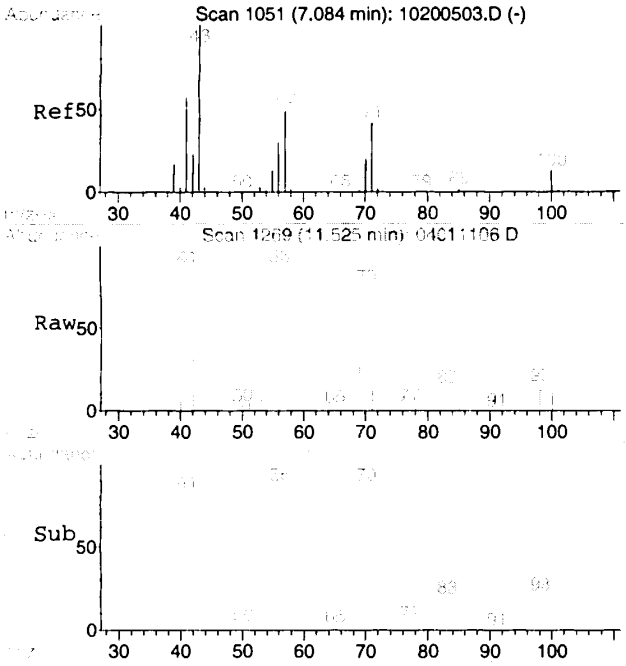


#31
Benzene
Concen: 14.90 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 78 Resp: 2166020

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	18.7	0.0	36.1
52	17.5	0.0	36.0

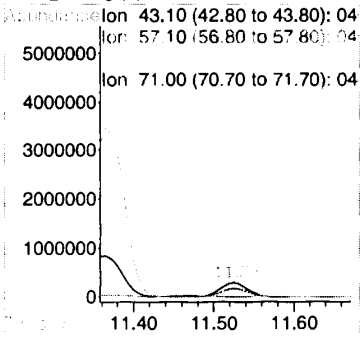


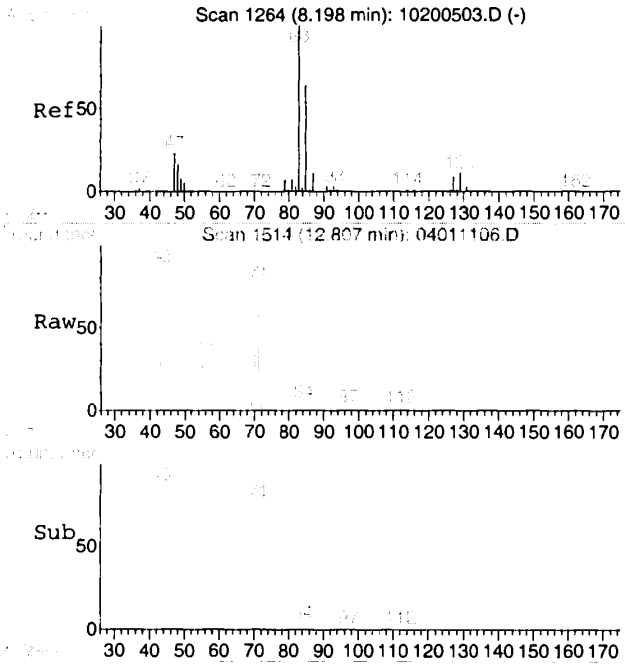


#34
Heptane
Concen: 6.92 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 43 Resp: 706922

Ion	Ratio	Lower	Upper
43	100		
57	66.1	42.2	63.4#
100	13.8	17.3	25.9#
71	56.7	48.3	72.5

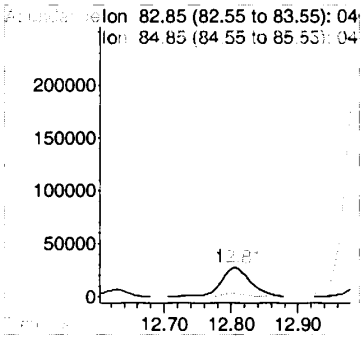


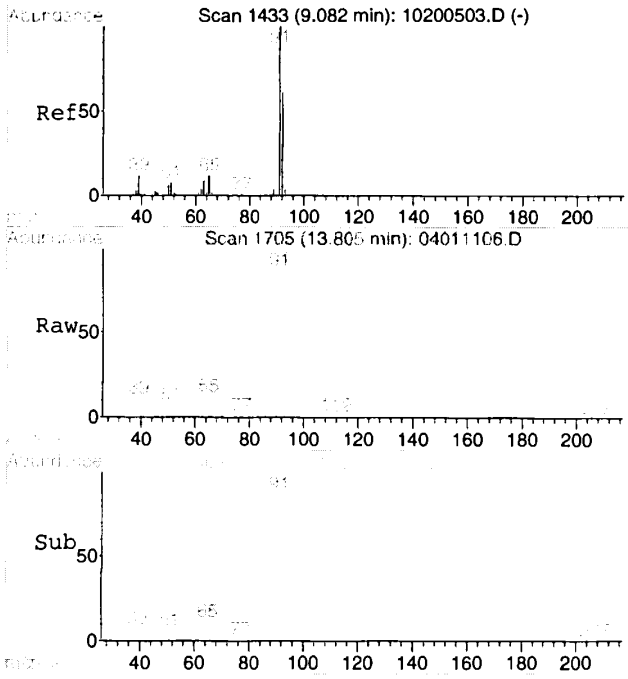


#38
Bromodichloromethane
Concen: 0.89 ppbv
RT: 12.81 min Scan# 1514
Delta R.T. -0.03 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 83 Resp: 88403

Ion	Ratio	Lower	Upper
83	100		
85	11.9	52.1	78.1#
129	0.0	9.4	14.2#

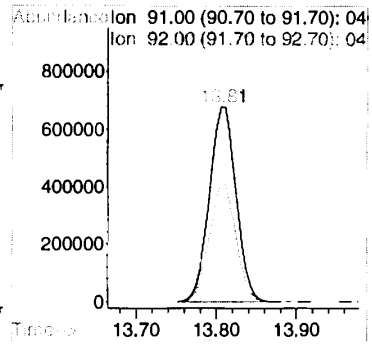


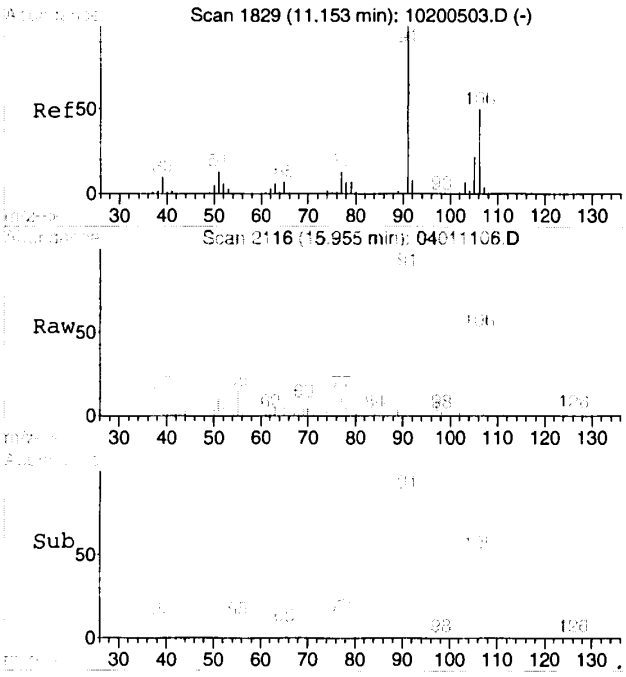


#41
Toluene
Concen: 9.82 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 91 Resp: 1565154

Ion	Ratio	Lower	Upper
91	100		
92	60.1	40.5	80.5
65	11.8	0.0	31.2

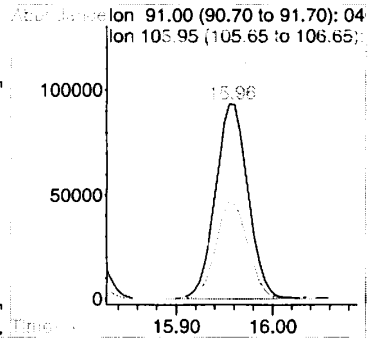


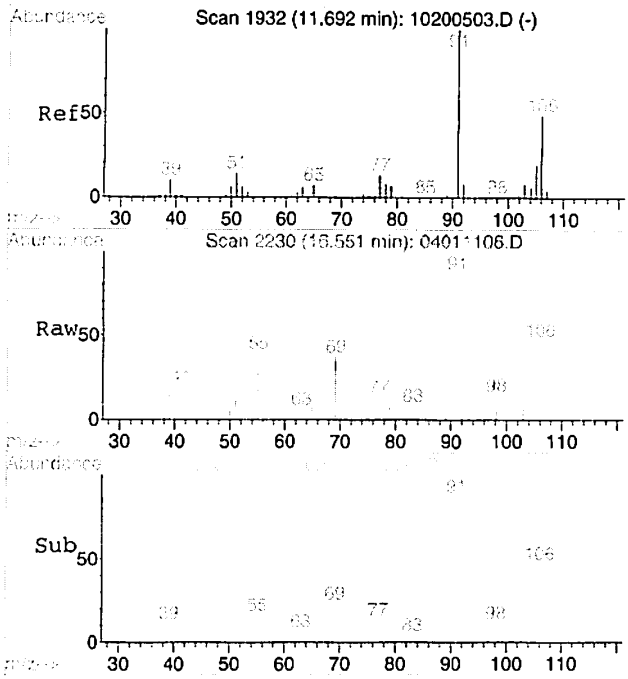


#51
m,p-Xylene
Concen: 1.49 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 91 Resp: 219867

Ion	Ratio	Lower	Upper
91	100		
106	49.1	35.6	75.6
51	11.4	0.0	29.6

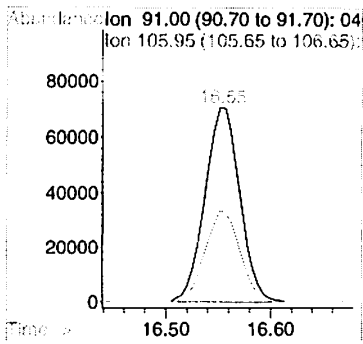




#52
o-Xylene
Concen: 1.14 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04011106.D
Acq: 1 Apr 2011 3:47 pm

Tgt Ion: 91 Resp: 163666

Ion	Ratio	Lower	Upper
91	100		
106	46.7	41.0	61.6
51	13.6	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	55	91	182	rBV	5509935	66610633	100.00%	14.246%
2	6.321	262	274	290	rVB3	171690	697882	1.05%	0.149%
3	7.200	425	442	464	rBV	2594108	9277432	13.93%	1.984%
4	7.571	495	513	532	rBV	1147834	3566539	5.35%	0.763%
5	8.178	613	629	649	rBV3	861050	3148650	4.73%	0.673%
6	8.366	653	665	672	rVV	483738	1429153	2.15%	0.306%
7	8.429	673	677	690	rVB	299179	737250	1.11%	0.158%
8	8.764	725	741	762	rBV3	7322233	26974365	40.50%	5.769%
9	8.931	763	773	787	rVV	460674	1358330	2.04%	0.290%
10	9.093	790	804	830	rVB	2512151	7109710	10.67%	1.521%
11	9.396	850	862	880	rVB	2755508	7064157	10.61%	1.511%
12	10.008	968	979	1005	rVV	3565534	9757368	14.65%	2.087%
13	10.218	1006	1019	1047	rVV	2716479	7523582	11.29%	1.609%
14	10.772	1115	1125	1130	rBV	1287268	3488950	5.24%	0.746%
15	10.960	1146	1161	1168	rBV	4326157	11512418	17.28%	2.462%
16	11.039	1168	1176	1196	rVV2	4231464	11267771	16.92%	2.410%
17	11.211	1198	1209	1219	rVV	668446	1804462	2.71%	0.386%
18	11.363	1219	1238	1251	rVV	8661671	29487093	44.27%	6.306%
19	11.478	1251	1260	1265	rVV	2555928	6752043	10.14%	1.444%
20	11.530	1265	1270	1295	rVB3	2662611	6848900	10.28%	1.465%
21	11.865	1322	1334	1353	rBV	2044498	4835360	7.26%	1.034%
22	12.205	1373	1399	1406	rBV	404101	1072423	1.61%	0.229%
23	12.289	1406	1415	1426	rVV	1406299	3832377	5.75%	0.820%
24	12.399	1426	1436	1456	rVV2	3784304	10496990	15.76%	2.245%
25	12.571	1456	1469	1473	rVV7	228944	774709	1.16%	0.166%
26	12.629	1473	1480	1494	rVB	542832	1360535	2.04%	0.291%
27	12.801	1494	1513	1527	rBV2	3970812	10400129	15.61%	2.224%
28	12.937	1527	1539	1540	rVV3	582572	1246107	1.87%	0.266%
29	12.990	1541	1549	1569	rVB2	2784835	8211208	12.33%	1.756%
30	13.157	1569	1581	1596	rBV3	341654	1415417	2.12%	0.303%
31	13.345	1608	1617	1632	rVB	957301	2651587	3.98%	0.567%
32	13.575	1645	1661	1675	rBV2	1183637	3969332	5.96%	0.849%
33	13.811	1695	1706	1721	rVB	1830837	4918204	7.38%	1.052%
34	14.083	1743	1758	1771	rVB3	653166	1892148	2.84%	0.405%
35	14.831	1889	1901	1906	rBV3	429221	1294806	1.94%	0.277%
36	14.888	1906	1912	1921	rVV2	892639	2366071	3.55%	0.506%
37	15.014	1930	1936	1958	rVB4	291021	977413	1.47%	0.209%
38	15.202	1959	1972	1991	rBV2	584886	1542543	2.32%	0.330%
39	15.720	2054	2071	2083	rVV2	2341270	6629612	9.95%	1.418%
40	15.960	2111	2117	2127	rVV2	320269	901858	1.35%	0.193%
41	16.551	2221	2230	2239	rVB4	301886	764066	1.15%	0.163%
42	16.823	2276	2282	2290	rVB2	329103	686234	1.03%	0.147%
43	17.048	2315	2325	2335	rVB	3530923	8341652	12.52%	1.784%

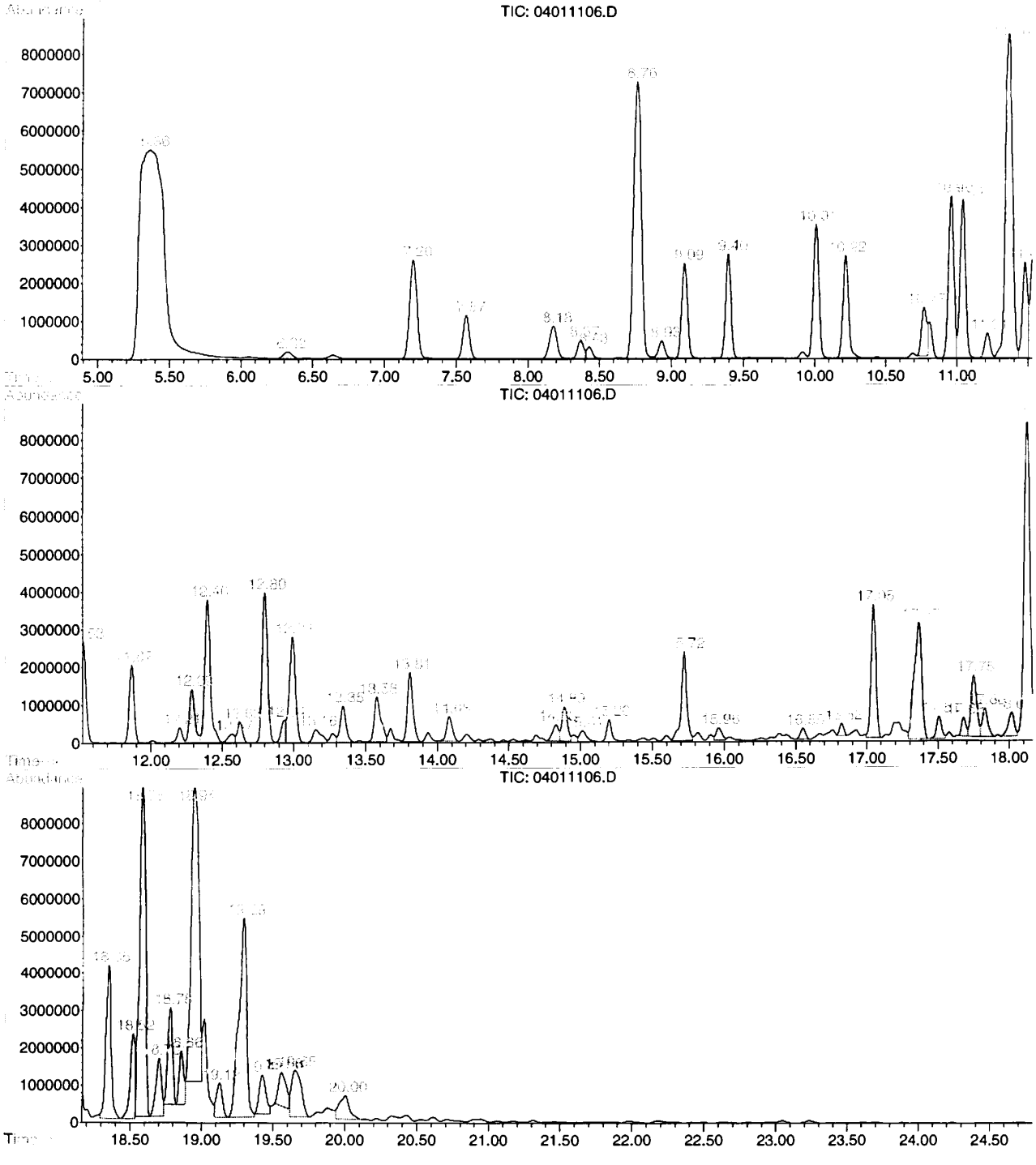
44	17.367	2371	2386	2399	rVB3	3083620	11610826	17.43%	2.483%
45	17.508	2399	2413	2421	rBV3	601284	1534672	2.30%	0.328%
46	17.676	2438	2445	2451	rBV	497655	1120823	1.68%	0.240%
47	17.749	2451	2459	2468	rVV2	1621512	4614069	6.93%	0.987%
48	17.827	2468	2474	2487	rVB	766756	2105750	3.16%	0.450%
49	18.016	2497	2510	2518	rBV3	630240	1922982	2.89%	0.411%
50	18.131	2518	2532	2543	rVV	8218756	23776644	35.69%	5.085%
51	18.345	2563	2573	2590	rVB	4108871	10351129	15.54%	2.214%
52	18.518	2590	2606	2609	rBV	2274548	5425972	8.15%	1.160%
53	18.581	2610	2618	2629	rVB	8799491	25447666	38.20%	5.442%
54	18.701	2629	2641	2648	rBV4	1552400	4650977	6.98%	0.995%
55	18.779	2648	2656	2664	rVB2	2598031	6193972	9.30%	1.325%
56	18.858	2664	2671	2676	rBV	1432155	3223331	4.84%	0.689%
57	18.941	2676	2687	2698	rBV5	7844911	29915863	44.91%	6.398%
58	19.119	2715	2721	2733	rVB4	904904	2652826	3.98%	0.567%
59	19.292	2734	2754	2769	rBV4	5326910	20451862	30.70%	4.374%
60	19.423	2769	2779	2790	rBV3	1026767	3476867	5.22%	0.744%
61	19.559	2796	2805	2815	rBV4	847290	3371780	5.06%	0.721%
62	19.653	2816	2823	2842	rVB6	1238793	5786517	8.69%	1.238%
63	20.003	2878	2890	2911	rVB4	623543	2953992	4.43%	0.632%

Sum of corrected areas: 467585989

04011106.D 031611V1.M Thu Apr 14 11:51:07 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011106.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 3:47 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-001B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 3
Quant File :031611V1.RES (RTE Integrator)



04011106.D 031611V1.M Thu Apr 14 11:51:07 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multip1r: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	238.65 ppbv	66610600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	4
3	Acetaldehyde $$ Acetic aldehyde $$	44	C2H4O	000075-07-0	3
4	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	33.24 ppbv	9277430	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	12.78 ppbv	3566540	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	86
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	96.64 ppbv	26974400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	25.47 ppbv	7109710	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 6 Pentane, 2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	34.96 ppbv	9757370	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	26.95 ppbv	7523580	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	58

****

Peak Number 8 Pentane, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	41.25 ppbv	11512400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 9 Hexane, 2,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	76.23 ppbv	29487100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	64
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	64

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	27.14 ppbv	10497000	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	3-Penten-2-one, 4-methyl- $$ Aceton	98	C6H10O	000141-79-7	58

****

Peak Number 11 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	21.23 ppbv	8211210	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	72
2	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	50
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	50
4	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	47
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	45

****

Peak Number 12 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	10.26 ppbv	3969330	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	94
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	91
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	81

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Octane, 2,2,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	15.73 ppbv	8341650	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	64
2	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	59
3	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	59
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	53
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	53

****

Peak Number 14 Dodecane, 2,2,11,11-tetramethy Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.13	44.83 ppbv	23776600	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
2	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
3	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	72
4	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	59
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	59

****

Peak Number 15 Tetradecane, 2,2-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	19.52 ppbv	10351100	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
3	Decane, 2,2,9-trimethyl-	184	C13H28	062238-00-0	72
4	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
5	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	72

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Undecane, 5,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	47.98 ppbv	25447700	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	72
2	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	72
3	Octane, 1,1'-oxybis- $$ Octyl ether	242	C16H34O	000629-82-3	50
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	50
5	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	47

****

Peak Number 17 Undecane, 2,9-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.78	11.68 ppbv	6193970	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	78
2	Nonadecane	268	C19H40	000629-92-5	59
3	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	59
4	Nonane, 3,7-dimethyl- $$ 3,7-Dimeth	156	C11H24	017302-32-8	58
5	Decane	142	C10H22	000124-18-5	56

****

Peak Number 18 Heptane, 5-ethyl-2,2,3-trimeth Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	56.41 ppbv	29915900	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 5-ethyl-2,2,3-trimethyl-	170	C12H26	062199-06-8	64
2	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	59
3	Hexane, 2,2,5,5-tetramethyl- $$ Bin	142	C10H22	001071-81-4	50
4	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	50
5	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	50

Data File : C:\HPCHEM\1\DATA\040111\04011106.D Vial: 3
Acq On : 1 Apr 2011 3:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Undecane, 2,8-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.29	38.56 ppbv	20451900	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	78
2	Undecane, 4,8-dimethyl-	184	C13H28	017301-33-6	50
3	Undecane, 3-methyl- $$ 3-Methylunde	170	C12H26	001002-43-3	47
4	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	47
5	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	47

****

Peak Number 20 Nonane, 3,7-dimethyl- $$ 3,7-D Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.65	10.91 ppbv	5786520	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3,7-dimethyl- $$ 3,7-Dimeth	156	C11H24	017302-32-8	64
2	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	56
3	Heptane, 3,3,5-trimethyl- $$ 3,3,5-	142	C10H22	007154-80-5	47
4	Heptane, 2,5,5-trimethyl-	142	C10H22	001189-99-7	47
5	Heptane, 2,5,5-trimethyl- $$ 2,5,5-	142	C10H22	001189-99-7	47

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 3:47 pm
Data File: C:\HPCHEM\1\DATA\040111\04011106.D
Name: 1103389-001B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethylene oxide	5.36	238.6	ppbv	66610600	ISTD01	10.77	3488950	12.5
Butane, 2-methyl-	7.20	33.2	ppbv	9277430	ISTD01	10.77	3488950	12.5
Pentane $$ n-Pentane	7.57	12.8	ppbv	3566540	ISTD01	10.77	3488950	12.5
Pentane, 2-methyl-	8.76	96.6	ppbv	26974400	ISTD01	10.77	3488950	12.5
Pentane, 3-methyl-	9.09	25.5	ppbv	7109710	ISTD01	10.77	3488950	12.5
Pentane, 2,4-dimethy	10.01	35.0	ppbv	9757370	ISTD01	10.77	3488950	12.5
Cyclopentane, methyl	10.22	27.0	ppbv	7523580	ISTD01	10.77	3488950	12.5
Pentane, 2,3-dimethy	10.96	41.2	ppbv	11512400	ISTD01	10.77	3488950	12.5
Hexane, 2,2-dimethyl	11.36	76.2	ppbv	29487100	ISTD02	11.87	4835360	12.5
Cyclohexane, methyl-	12.40	27.1	ppbv	10497000	ISTD02	11.87	4835360	12.5
Pentane, 2,3,3-trime	12.99	21.2	ppbv	8211210	ISTD02	11.87	4835360	12.5
Cyclohexane, 1,3-dim	13.58	10.3	ppbv	3969330	ISTD02	11.87	4835360	12.5
Octane, 2,2,6-trimet	17.05	15.7	ppbv	8341650	ISTD03	15.72	6629610	12.5
Dodecane, 2,2,11,11-	18.13	44.8	ppbv	23776600	ISTD03	15.72	6629610	12.5
Tetradecane, 2,2-dim	18.35	19.5	ppbv	10351100	ISTD03	15.72	6629610	12.5
Undecane, 5,7-dimeth	18.58	48.0	ppbv	25447700	ISTD03	15.72	6629610	12.5
Undecane, 2,9-dimeth	18.78	11.7	ppbv	6193970	ISTD03	15.72	6629610	12.5
Heptane, 5-ethyl-2,2	18.94	56.4	ppbv	29915900	ISTD03	15.72	6629610	12.5
Undecane, 2,8-dimeth	19.29	38.6	ppbv	20451900	ISTD03	15.72	6629610	12.5
Nonane, 3,7-dimethyl	19.65	10.9	ppbv	5786520	ISTD03	15.72	6629610	12.5

04011106.D 031611V1.M Thu Apr 14 11:51:08 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:03 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	618000	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2129440	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1512618	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1111238	14.66	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 117.28%#				
Target Compounds							Qvalue
2) Propylene	5.68	41	24559	0.53	ppbv	#	65
11) Ethanol	7.74	45	5658	0.55	ppbv	#	61
14) Acetone	8.37	43	284187	3.73	ppbv	#	96
16) 2-Propanol	8.42	45	85236	1.55	ppbv	#	1
20) n-Hexane	9.39	57	6538953	72.46	ppbv		99
29) Cyclohexane	11.04	56	5937911	64.98	ppbv	#	78
31) Benzene	11.48	78	4401807	28.81	ppbv		94
34) Heptane	11.52	43	5089195	49.49	ppbv	#	92
41) Toluene	13.81	91	6021328	37.52	ppbv		95
50) Ethylbenzene	15.80	91	987182	5.61	ppbv		95
51) m,p-Xylene	15.96	91	2386254	17.52	ppbv		95
52) o-Xylene	16.55	91	870768	6.57	ppbv	#	89
57) 4-Ethyltoluene	17.74	105	307509	1.94	ppbv		100
58) 1,3,5-Trimethylbenzene	17.86	105	215673	1.65	ppbv		94
59) 1,2,4-Trimethylbenzene	18.45	105	354782	3.04	ppbv		98

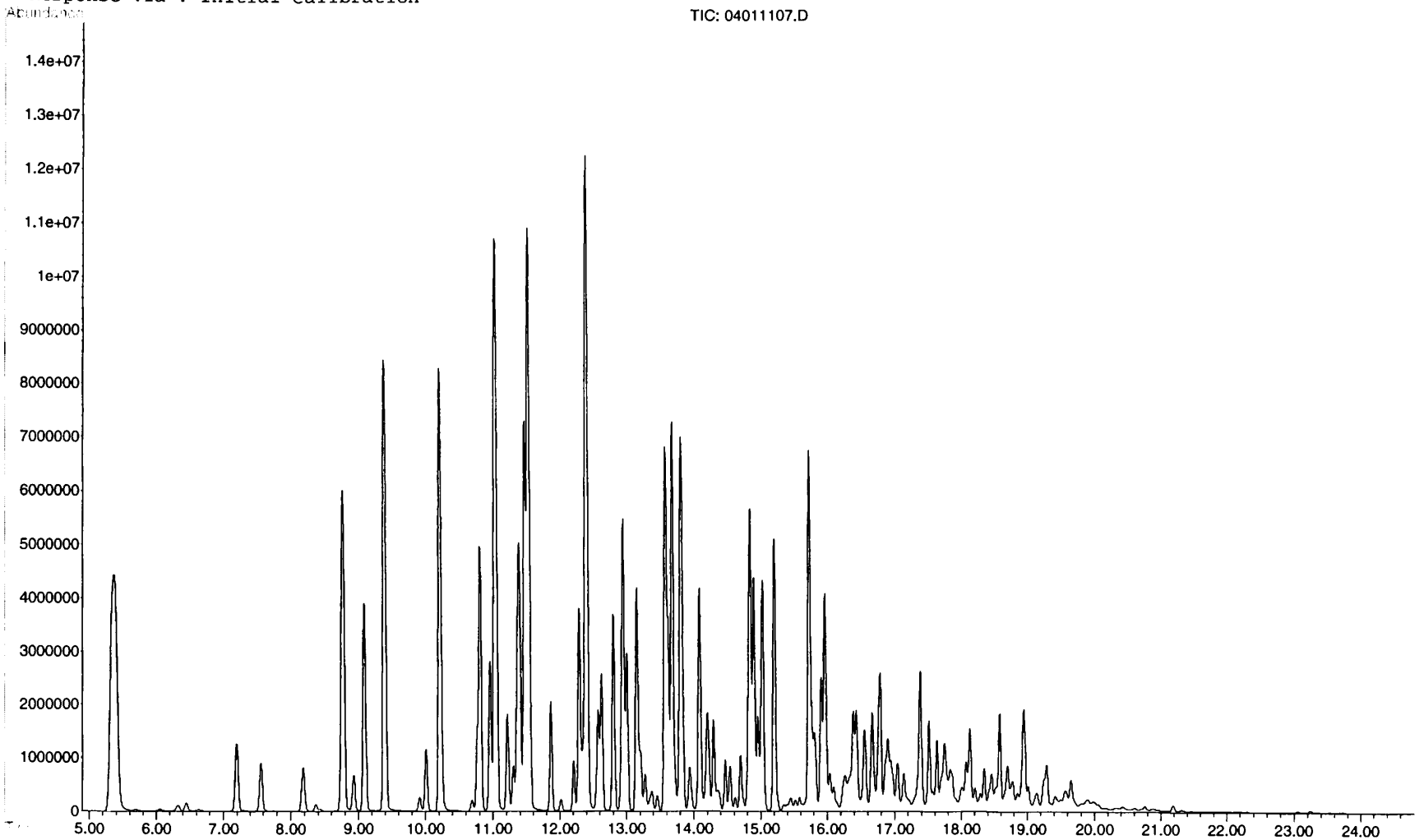
X = reported only
- = not reported ch
4/15/11

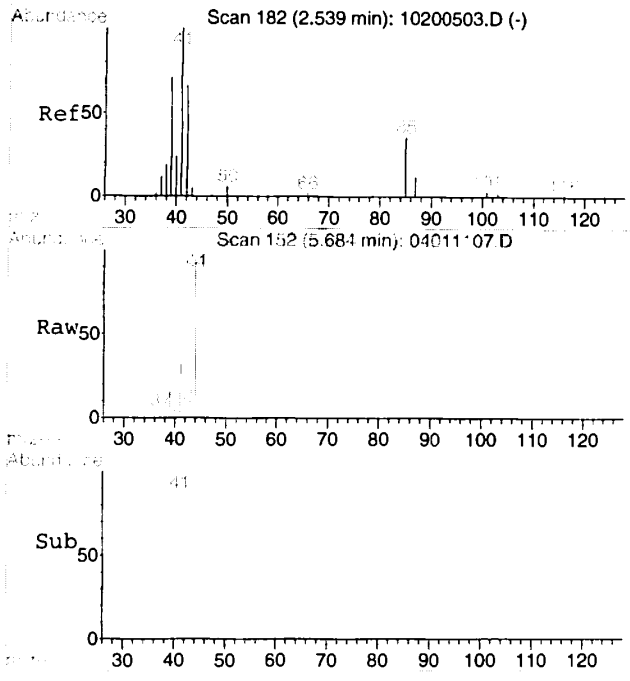
(#) = qualifier out of range (m) = manual integration
04011107.D 031611V1.M Thu Apr 14 11:51:15 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:03 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

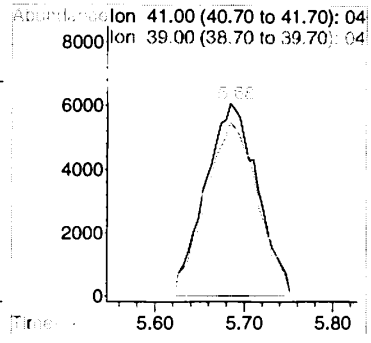


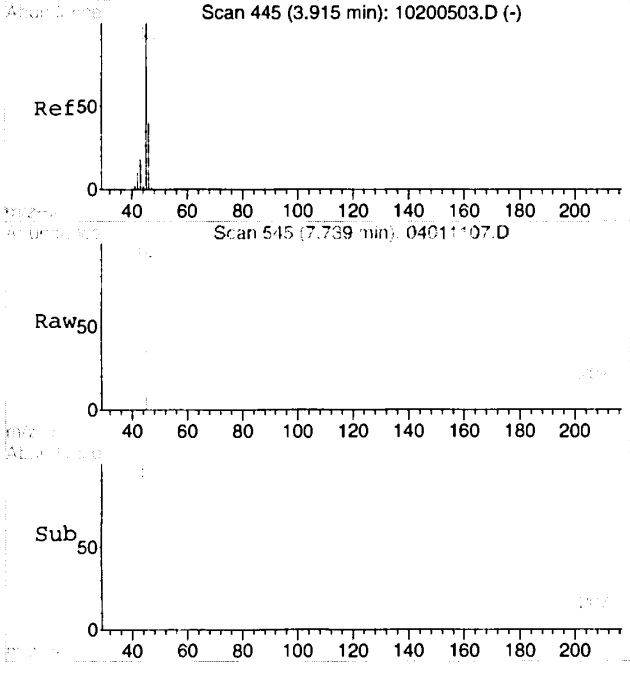


#2
Propylene
Concen: 0.53 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 41 Resp: 24559

Ion	Ratio	Lower	Upper
41	100		
39	90.3	57.6	86.4#
42	27.7	54.0	81.0#

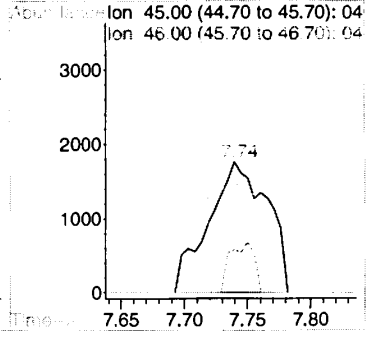


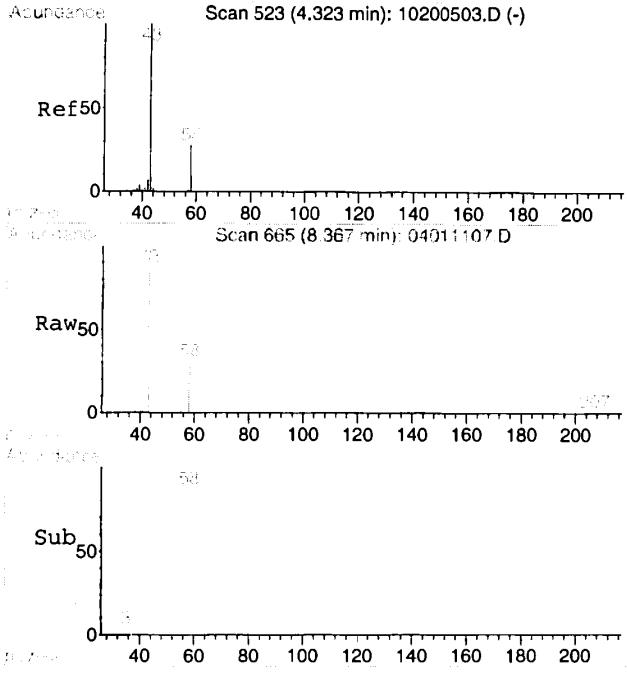


#11
Ethanol
Concen: 0.55 ppbv
RT: 7.74 min Scan# 545
Delta R.T. 0.01 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 45 Resp: 5658

Ion	Ratio	Lower	Upper
45	100		
46	15.9	30.2	45.4#
43	0.0	15.8	23.6#

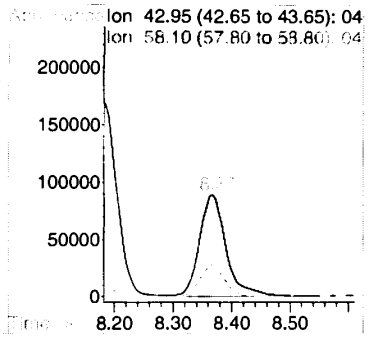


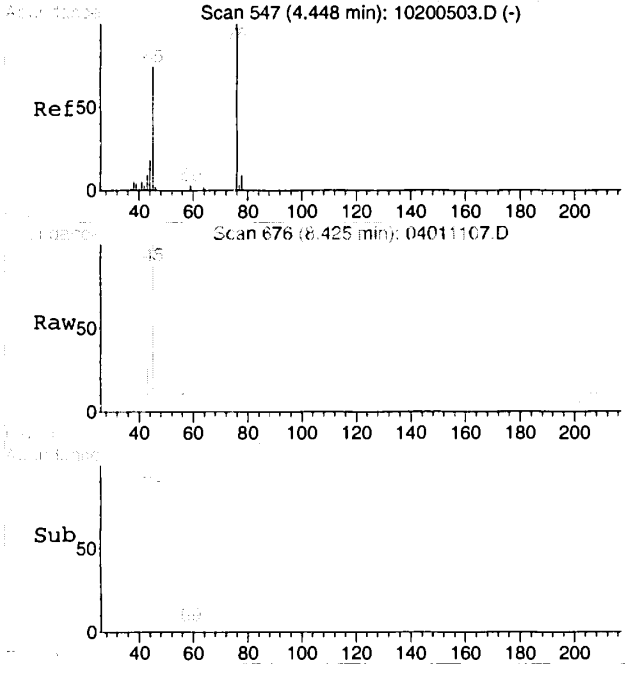


#14
Acetone
Concen: 3.73 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 43 Resp: 284187

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.0	33.0
39	4.5	6.5	9.7#

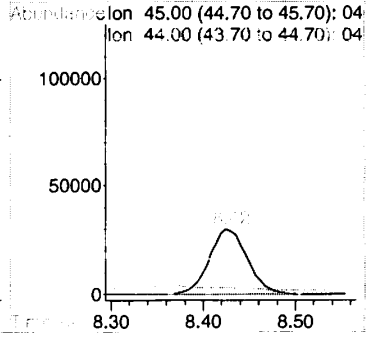


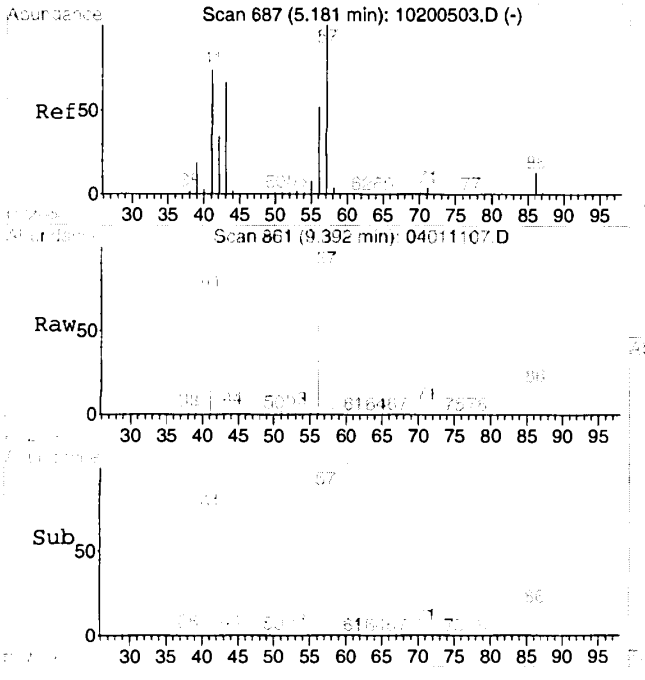


#16
2-Propanol
Concen: 1.55 ppbv
RT: 8.42 min Scan# 676
Delta R.T. 0.02 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 45 Resp: 85236

Ion	Ratio	Lower	Upper
45	100		
44	0.0	5.2	7.8#
43	0.0	101.1	151.7#

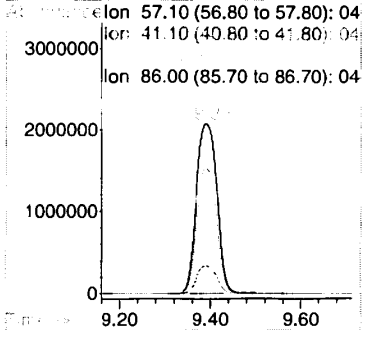


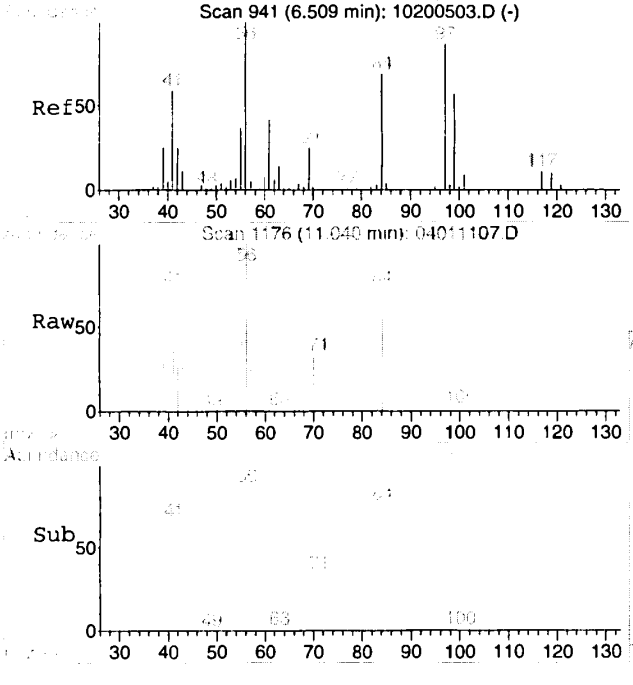


#20
n-Hexane
Concen: 72.46 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 57 Resp: 6538953

Ion	Ratio	Lower	Upper
57	100		
41	72.1	57.2	85.8
53	2.7	1.8	2.8
86	16.2	13.4	20.0

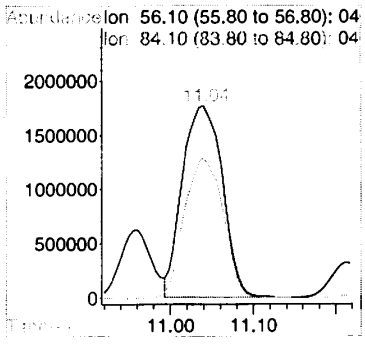


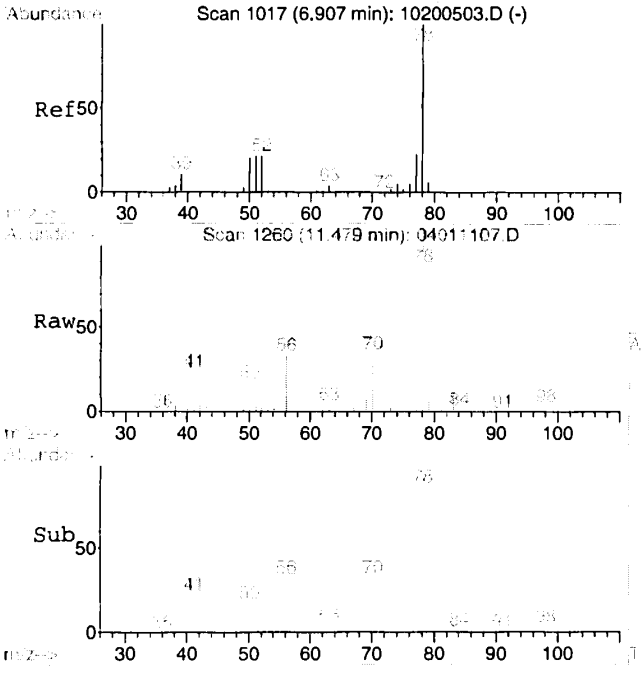


#29
Cyclohexane
Concen: 64.98 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 56 Resp: 5937911

Ion	Ratio	Lower	Upper
56	100		
84	71.3	72.4	108.6#
41	71.9	43.8	65.8#

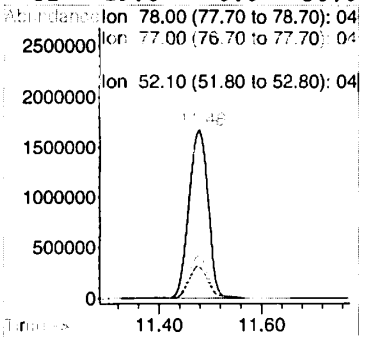


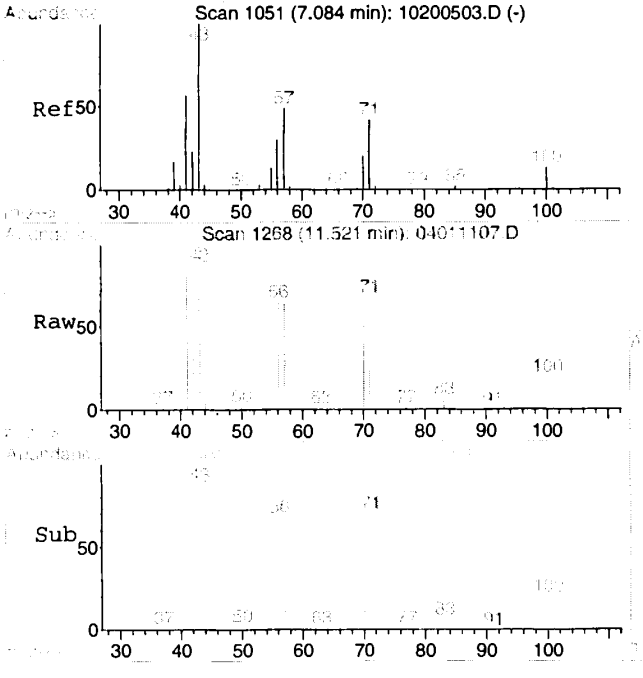


#31
Benzene
Concen: 28.81 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 78 Resp: 4401807

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.7	43.7
51	19.1	0.0	36.1
52	19.6	0.0	36.0

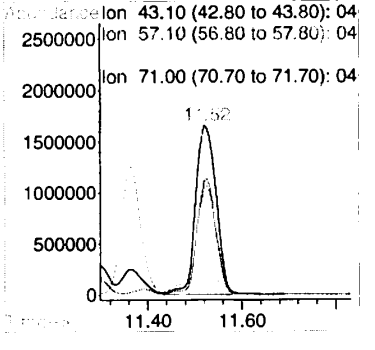


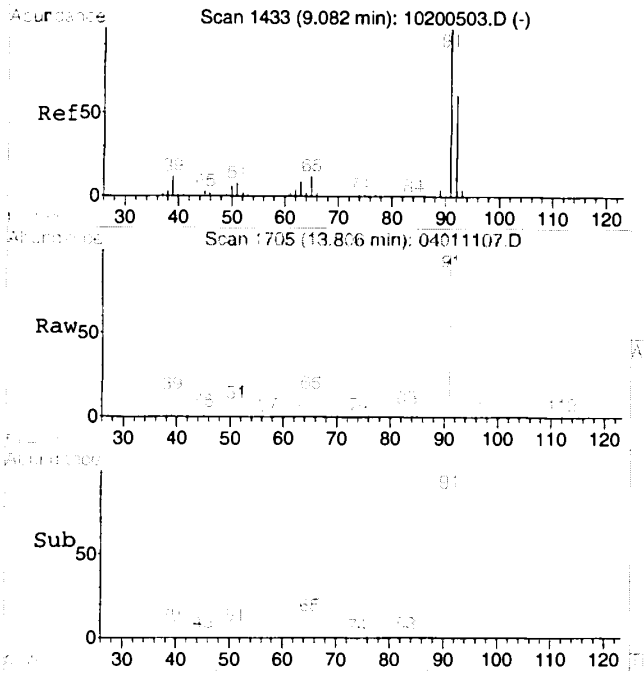


#34
Heptane
Concen: 49.49 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 43 Resp: 5089195

Ion	Ratio	Lower	Upper
43	100		
57	61.5	42.2	63.4
100	16.5	17.3	25.9#
71	63.0	48.3	72.5

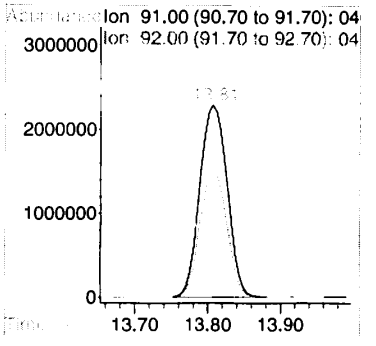


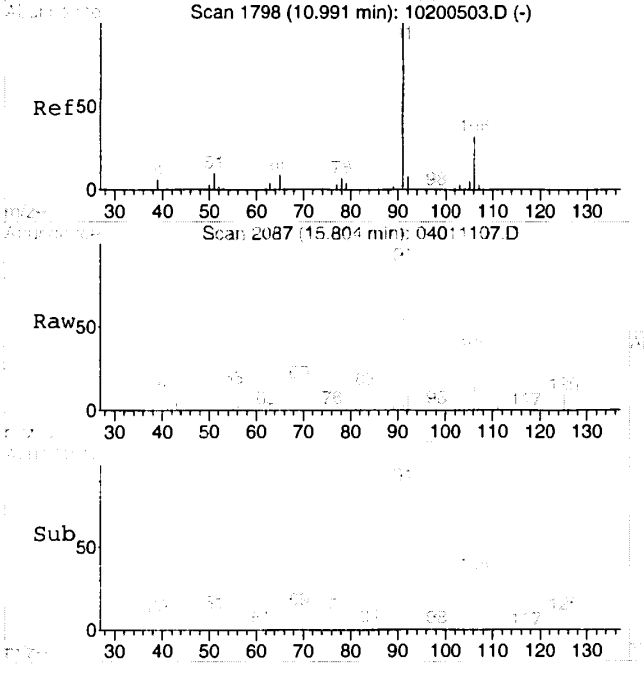


#41
Toluene
Concen: 37.52 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 91 Resp: 6021328

Ion	Ratio	Lower	Upper
91	100		
92	64.5	40.5	80.5
65	13.2	0.0	31.2

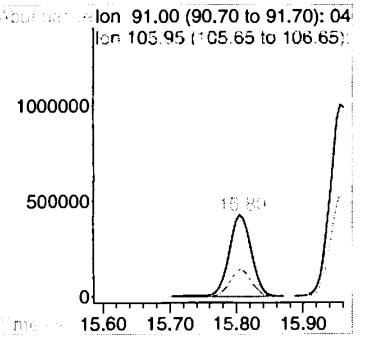


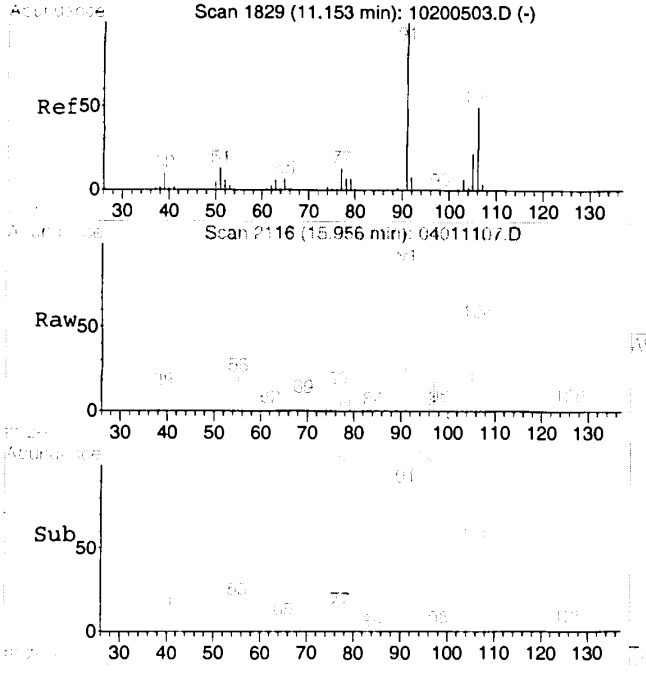


#50
Ethylbenzene
Concen: 5.61 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 91 Resp: 987182

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.6	0.0	33.1

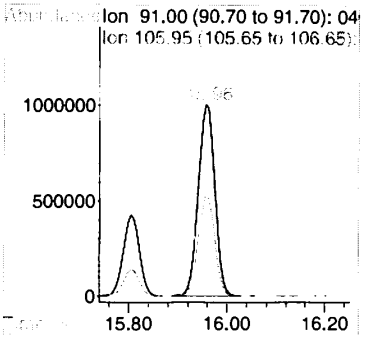


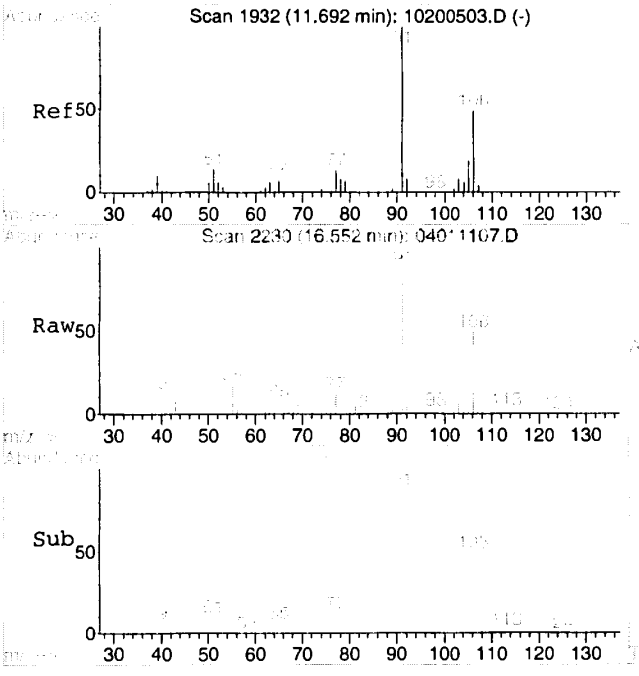


#51
m,p-Xylene
Concen: 17.52 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 91 Resp: 2386254

Ion	Ratio	Lower	Upper
91	100		
106	52.0	35.6	75.6
51	11.3	0.0	29.6

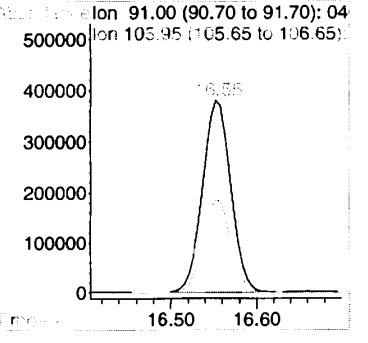


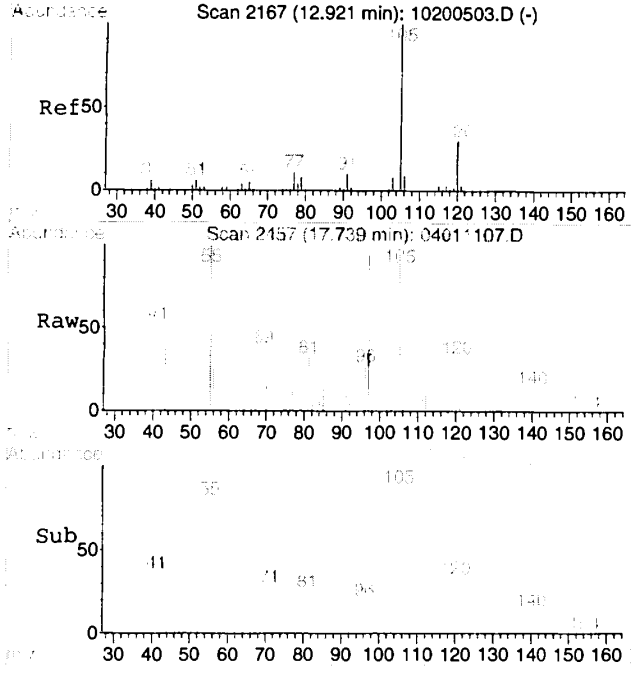


#52
o-Xylene
Concen: 6.57 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion: 91 Resp: 870768

Ion	Ratio	Lower	Upper
91	100		
106	48.7	41.0	61.6
51	10.8	19.7	29.5#

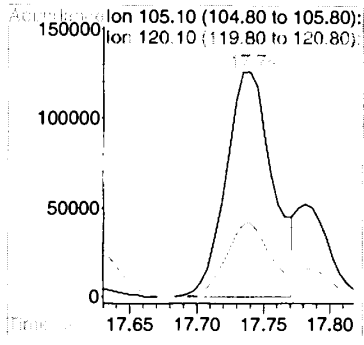


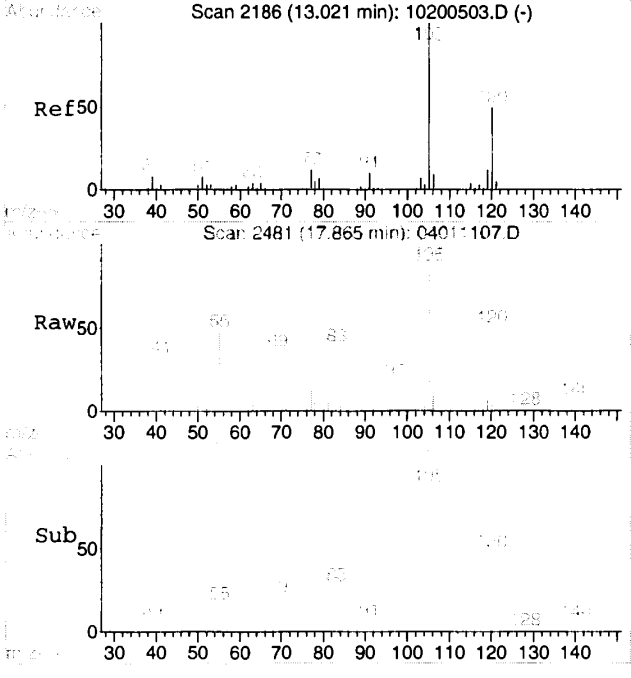


#57
4-Ethyltoluene
Concen: 1.94 ppbv
RT: 17.74 min Scan# 2457
Delta R.T. -0.04 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion:105 Resp: 307509

Ion	Ratio	Lower	Upper
105	100		
120	32.3	26.0	39.0

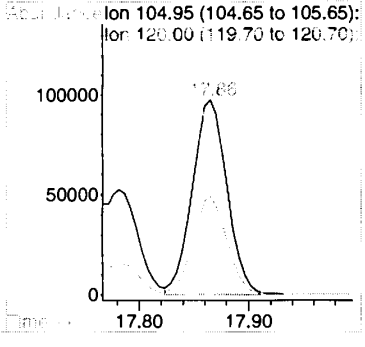


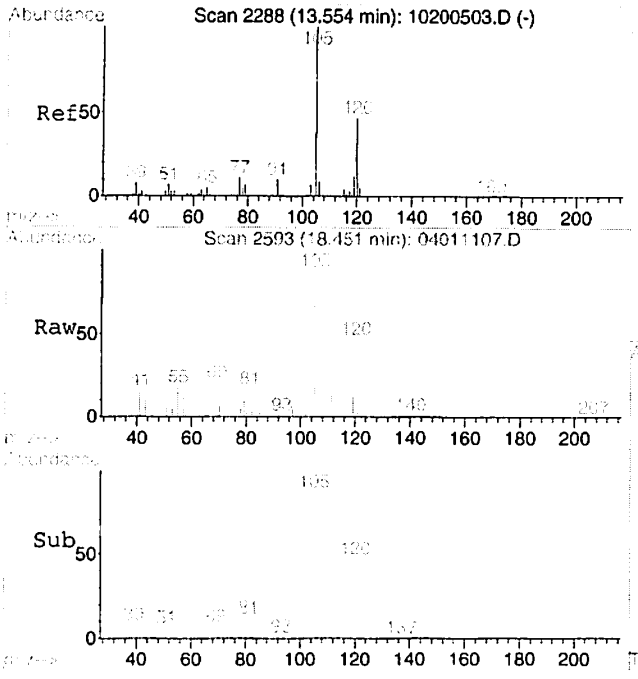


#58
1,3,5-Trimethylbenzene
Concen: 1.65 ppbv
RT: 17.86 min Scan# 2481
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion:105 Resp: 215673

Ion	Ratio	Lower	Upper
105	100		
120	49.5	32.1	72.1
91	16.1	0.0	30.4

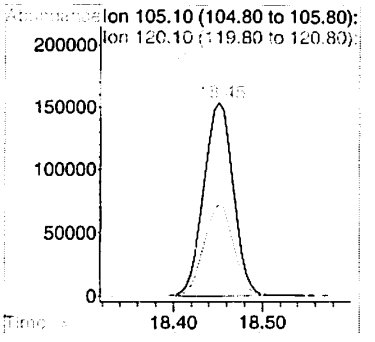




#59
1,2,4-Trimethylbenzene
Concen: 3.04 ppbv
RT: 18.45 min Scan# 2593
Delta R.T. 0.00 min
Lab File: 04011107.D
Acq: 1 Apr 2011 4:32 pm

Tgt Ion:105 Resp: 354782

Ion	Ratio	Lower	Upper
105	100		
120	46.7	38.9	58.3
91	10.5	8.2	12.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.360	61	90	140	rBV	4445824	30430874	75.03%	4.669%
2	6.322	258	274	286	rBV4	117458	481305	1.19%	0.074%
3	6.448	286	298	314	rVB	156595	563851	1.39%	0.087%
4	7.190	424	440	462	rBV	1264488	4308921	10.62%	0.661%
5	7.562	491	511	529	rBV	900841	2822736	6.96%	0.433%
6	8.179	614	629	650	rBV	822718	2687125	6.63%	0.412%
7	8.367	653	665	673	rBV	137072	414011	1.02%	0.064%
8	8.770	724	742	761	rBV2	6024820	20221627	49.86%	3.103%
9	8.932	761	773	788	rVV	673132	2001918	4.94%	0.307%
10	9.089	789	803	830	rVB	3910008	11298302	27.86%	1.733%
11	9.392	848	861	885	rBV	8421040	25981986	64.06%	3.986%
12	9.915	947	961	969	rBV	266237	738520	1.82%	0.113%
13	10.009	969	979	999	rVB	1167490	3169177	7.81%	0.486%
14	10.219	1004	1019	1048	rBV	8297560	25230465	62.21%	3.871%
15	10.689	1097	1109	1115	rBV2	216205	597788	1.47%	0.092%
16	10.810	1115	1132	1147	rVV2	4982167	16099217	39.70%	2.470%
17	10.956	1148	1160	1166	rVV	2821749	7261956	17.91%	1.114%
18	11.034	1166	1175	1197	rVV2	10727688	35049993	86.42%	5.378%
19	11.212	1198	1209	1218	rVV	1816402	4910341	12.11%	0.753%
20	11.301	1218	1226	1230	rVV	841841	2134655	5.26%	0.328%
21	11.390	1230	1243	1251	rVV3	5036843	18614099	45.90%	2.856%
22	11.474	1251	1259	1263	rVV3	7307846	19405278	47.85%	2.977%
23	11.526	1263	1269	1307	rVB4	10913756	33944848	83.70%	5.208%
24	11.866	1322	1334	1347	rVB	2039856	4803187	11.84%	0.737%
25	12.018	1352	1363	1375	rVB	221931	570090	1.41%	0.087%
26	12.206	1387	1399	1406	rBV	939591	2188665	5.40%	0.336%
27	12.290	1406	1415	1423	rVV	3813389	10699079	26.38%	1.642%
28	12.400	1426	1436	1455	rVV	12267838	40555783	100.00%	6.222%
29	12.577	1456	1470	1474	rVV2	1892118	5286038	13.03%	0.811%
30	12.624	1474	1479	1494	rVB	2575287	6304228	15.54%	0.967%
31	12.802	1500	1513	1526	rBV2	3693450	9509039	23.45%	1.459%
32	12.949	1526	1541	1548	rBV2	5456661	15992558	39.43%	2.454%
33	13.006	1548	1552	1568	rVB	2965735	6619081	16.32%	1.016%
34	13.153	1568	1580	1588	rBV2	4193661	11560896	28.51%	1.774%
35	13.273	1597	1603	1611	rVB	563523	1271350	3.13%	0.195%
36	13.378	1612	1623	1631	rVB2	333565	1124588	2.77%	0.173%
37	13.456	1631	1638	1648	rVB	281291	685384	1.69%	0.105%
38	13.576	1648	1661	1674	rBV2	6815449	25721550	63.42%	3.946%
39	13.681	1674	1681	1694	rVV	7063805	18266838	45.04%	2.803%
40	13.812	1694	1706	1721	rVB2	6970517	22186267	54.71%	3.404%
41	13.937	1721	1730	1745	rVB3	792927	2292376	5.65%	0.352%
42	14.084	1745	1758	1769	rBV3	4162073	11225825	27.68%	1.722%
43	14.204	1770	1781	1790	rBV4	1602742	4780898	11.79%	0.734%

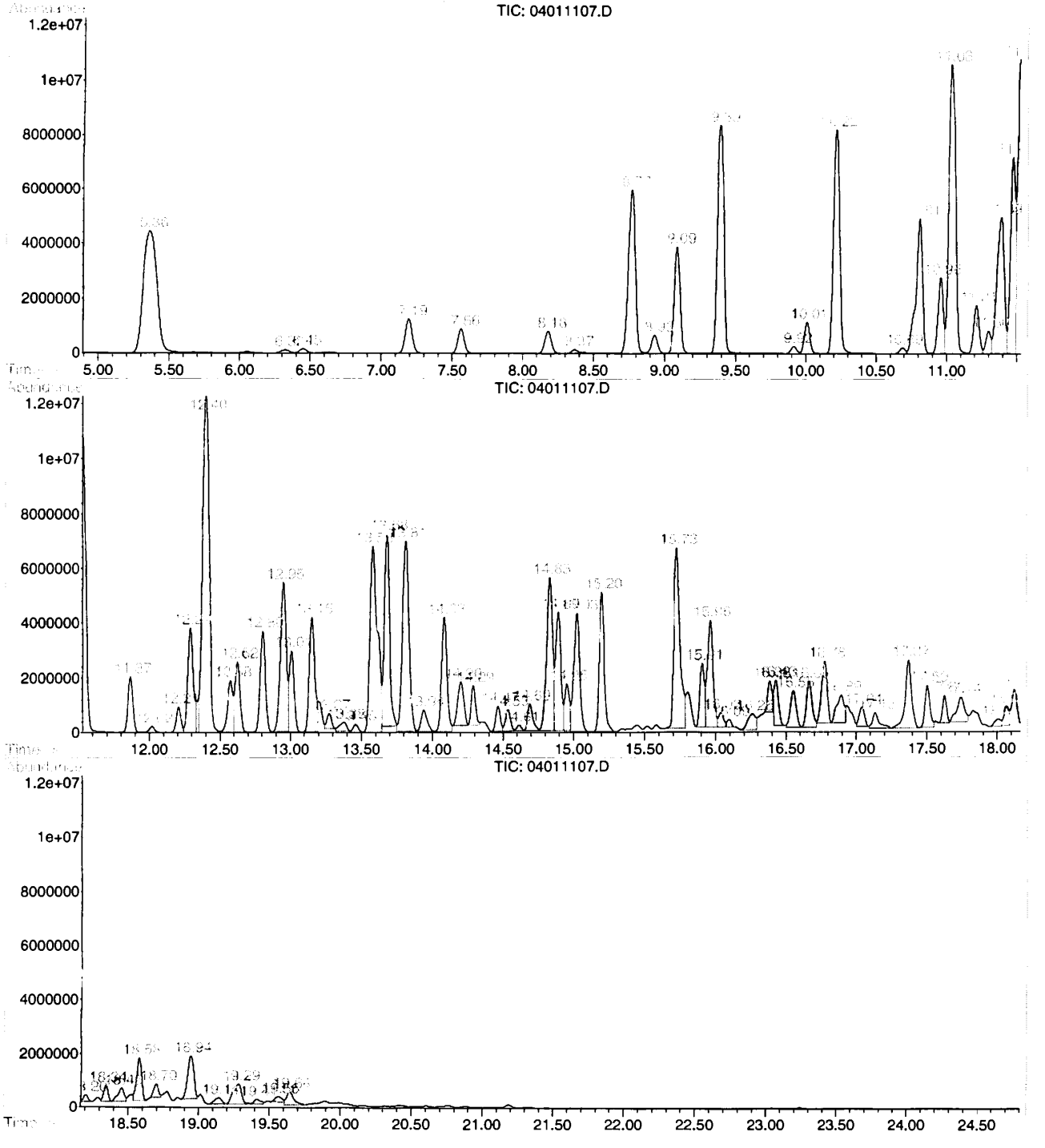
44	14.288	1790	1797	1806	rBV	1445756	3108928	7.67%	0.477%
45	14.465	1822	1831	1837	rBV	929506	2094148	5.16%	0.321%
46	14.533	1837	1844	1853	rVV3	803473	1990618	4.91%	0.305%
47	14.612	1853	1859	1866	rVV3	214980	459965	1.13%	0.071%
48	14.690	1866	1874	1887	rVV2	997387	2643557	6.52%	0.406%
49	14.832	1887	1901	1907	rVV	5619595	16660541	41.08%	2.556%
50	14.894	1907	1913	1920	rVV	4328730	11411324	28.14%	1.751%
51	14.952	1920	1924	1929	rVV3	1716625	3867948	9.54%	0.593%
52	15.025	1929	1938	1957	rVB2	4339967	12717022	31.36%	1.951%
53	15.198	1959	1971	1990	rBV2	5110337	12964141	31.97%	1.989%
54	15.726	2057	2072	2084	rBV6	6634667	20416757	50.34%	3.133%
55	15.909	2098	2107	2111	rBV	2333687	5536355	13.65%	0.849%
56	15.961	2111	2117	2127	rVV2	3906743	10719766	26.43%	1.645%
57	16.034	2127	2131	2138	rVV4	531327	1281417	3.16%	0.197%
58	16.092	2139	2142	2150	rVB2	276993	512917	1.26%	0.079%
59	16.265	2159	2175	2180	rBV4	599638	2423049	5.97%	0.372%
60	16.385	2191	2198	2202	rBV	1147790	2486945	6.13%	0.382%
61	16.427	2203	2206	2218	rVB	1673868	3446686	8.50%	0.529%
62	16.552	2220	2230	2241	rVB3	1361695	3894565	9.60%	0.598%
63	16.662	2241	2251	2261	rBV2	1694573	4818872	11.88%	0.739%
64	16.777	2261	2273	2282	rVB4	2277227	6752496	16.65%	1.036%
65	16.892	2282	2295	2301	rBV8	1039016	3972343	9.79%	0.609%
66	17.039	2316	2323	2332	rVB3	717441	1923874	4.74%	0.295%
67	17.133	2333	2341	2363	rVB5	587343	1908336	4.71%	0.293%
68	17.373	2365	2387	2401	rVB4	2502962	7837785	19.33%	1.203%
69	17.504	2403	2412	2421	rBV	1559038	3913030	9.65%	0.600%
70	17.624	2428	2435	2442	rBV2	1018114	2047226	5.05%	0.314%
71	17.739	2442	2457	2467	rBV6	916639	3582632	8.83%	0.550%
72	18.006	2498	2508	2513	rBV7	271097	873267	2.15%	0.134%
73	18.064	2513	2519	2524	rVV2	719872	1809209	4.46%	0.278%
74	18.121	2524	2530	2540	rVV	1325314	3377538	8.33%	0.518%
75	18.205	2540	2546	2553	rVB3	253108	556787	1.37%	0.085%
76	18.341	2566	2572	2580	rVB	601524	1275689	3.15%	0.196%
77	18.451	2581	2593	2600	rBV2	495653	1534809	3.78%	0.235%
78	18.576	2609	2617	2626	rVB	1603346	3935510	9.70%	0.604%
79	18.697	2632	2640	2647	rBV3	502273	1243853	3.07%	0.191%
80	18.942	2676	2687	2696	rVV2	1605286	4953505	12.21%	0.760%
81	19.141	2714	2725	2735	rVB5	234733	830665	2.05%	0.127%
82	19.288	2736	2753	2764	rBV3	748949	3084584	7.61%	0.473%
83	19.413	2770	2777	2787	rBV6	158063	522195	1.29%	0.080%
84	19.565	2798	2806	2814	rBV5	174276	657926	1.62%	0.101%
85	19.643	2814	2821	2842	rVB5	494112	1706907	4.21%	0.262%

Sum of corrected areas: 651768400

04011107.D 031611V1.M Thu Apr 14 11:51:24 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011107.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 4:32 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-003B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 4
Quant File :031611V1.RES (RTE Integrator)



04011107.D 031611V1.M Thu Apr 14 11:51:25 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	23.63 ppbv	30430900	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	4
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	15.70 ppbv	20221600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	58

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	8.77 ppbv	11298300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Data File : C:\HPCHEM\1\DATA\040111\04011107.D
Acq On : 1 Apr 2011 4:32 pm
Sample : 1103389-003B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 4
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 10.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Cyclopentane, methyl- $$ Methy Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	19.59 ppbv	25230500	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	78

****

Peak Number 5 Cyclopentane, 1,3-dimethyl-, t Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.39	48.44 ppbv	18614100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	91
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	91
3	Cyclopentane, 1,3-dimethyl-, cis- $	98	C7H14	002532-58-3	83
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	64
5	Cyclopentane, 1,2-dimethyl-, cis- $	98	C7H14	001192-18-3	46

****

Peak Number 6 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	27.84 ppbv	10699100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	59
2	Cyclopentane, 1,1,3-trimethyl- $$ 1	112	C8H16	004516-69-2	59
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	49
4	(1S,2S)-(+)-1,2-Diaminocyclohexane	114	C6H14N2	021436-03-3	43
5	(1R,2R)-(-)-1,2-Diaminocyclohexane	114	C6H14N2	020439-47-8	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	105.54 ppbv	40555800	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	72
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	64
3	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	53
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	53
5	Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	53

****

Peak Number 8 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	13.76 ppbv	5286040	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	87
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43
5	Cyclobutanone, 2,2-dimethyl- $$ 2,2	98	C6H10O	001192-14-9	30

****

Peak Number 9 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	16.41 ppbv	6304230	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	90
2	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	72
3	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	56
4	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	45
5	Cyclobutane, 2-ethyl-1-methyl-3-pro	140	C10H20	061233-72-5	39

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, 1,2,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	24.75 ppbv	9509040	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	81
2	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	80
3	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	015890-40-1	78
4	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	64
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	53

****

Peak Number 11 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	41.62 ppbv	15992600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	87
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	86
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
5	Butane, 1-(ethenyloxy)-3-methyl-	114	C7H14O	039782-38-2	38

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.01	17.23 ppbv	6619080	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	74
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	74
4	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	64
5	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	59

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	30.09 ppbv	11560900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47

****

Peak Number 14 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	66.94 ppbv	25721600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	90

****

Peak Number 15 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	47.54 ppbv	18266800	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	87
3	Octane	114	C8H18	000111-65-9	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	6.87 ppbv	11225800	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	94
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 17 Cyclohexane, ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	10.20 ppbv	16660500	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
2	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

****

Peak Number 18 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	6.99 ppbv	11411300	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
2	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	40
3	Cyclohexane, 1,3,5-trimethyl-, (1.a	126	C9H18	001795-27-3	40
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	28
5	Cyclooctane, (1-methylpropyl)- $$ C	168	C12H24	016538-89-9	17

Data File : C:\HPCHEM\1\DATA\040111\04011107.D Vial: 4
Acq On : 1 Apr 2011 4:32 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Heptane, 2,4-dimethyl- $$ 2,4- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	7.79 ppbv	12717000	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	62
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	58
3	Octane, 4-methyl-	128	C9H20	002216-34-4	52
4	Nonane	128	C9H20	000111-84-2	47
5	Heptane, 2,6-dimethyl- $$ 2,6-Dimet	128	C9H20	001072-05-5	47

****

Peak Number 20 Octane, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	7.94 ppbv	12964100	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	38
2	Octane, 3-methyl- $$ 3-Methyloctane	128	C9H20	002216-33-3	35
3	Undecane, 2,6-dimethyl- $$ 2,6-Dime	184	C13H28	017301-23-4	32
4	Heptane, 3-ethyl-2-methyl- $$ 2-Met	142	C10H22	014676-29-0	25
5	Heptane, 3-ethyl-	128	C9H20	015869-80-4	25

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 4:32 pm
Data File: C:\HPCHEM\1\DATA\040111\04011107.D
Name: 1103389-003B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	23.6	ppbv	30430900	ISTD01	10.77	16099200	12.5
Pentane, 2-methyl-	8.77	15.7	ppbv	20221600	ISTD01	10.77	16099200	12.5
Pentane, 3-methyl-	9.09	8.8	ppbv	11298300	ISTD01	10.77	16099200	12.5
Cyclopentane, methyl	10.22	19.6	ppbv	25230500	ISTD01	10.77	16099200	12.5
Cyclopentane, 1,3-di	11.39	48.4	ppbv	18614100	ISTD02	11.87	4803190	12.5
Cyclopentane, 1,1,3-	12.29	27.8	ppbv	10699100	ISTD02	11.87	4803190	12.5
Cyclohexane, methyl-	12.40	105.5	ppbv	40555800	ISTD02	11.87	4803190	12.5
Cyclopentane, ethyl-	12.58	13.8	ppbv	5286040	ISTD02	11.87	4803190	12.5
Cyclopentane, 1,2,4-	12.62	16.4	ppbv	6304230	ISTD02	11.87	4803190	12.5
Cyclopentane, 1,2,3-	12.80	24.7	ppbv	9509040	ISTD02	11.87	4803190	12.5
Hexane, 2,5-dimethyl	12.95	41.6	ppbv	15992600	ISTD02	11.87	4803190	12.5
Pentane, 2,3,4-trime	13.01	17.2	ppbv	6619080	ISTD02	11.87	4803190	12.5
Heptane, 3-methyl-	13.15	30.1	ppbv	11560900	ISTD02	11.87	4803190	12.5
Cyclohexane, 1,3-dim	13.58	66.9	ppbv	25721600	ISTD02	11.87	4803190	12.5
Octane	13.68	47.5	ppbv	18266800	ISTD02	11.87	4803190	12.5
Cyclohexane, 1,2-dim	14.08	6.9	ppbv	11225800	ISTD03	15.72	20416800	12.5
Cyclohexane, ethyl-	14.83	10.2	ppbv	16660500	ISTD03	15.72	20416800	12.5
Cyclohexane, 1,1,3-t	14.89	7.0	ppbv	11411300	ISTD03	15.72	20416800	12.5
Heptane, 2,4-dimethy	15.03	7.8	ppbv	12717000	ISTD03	15.72	20416800	12.5
Octane, 3-methyl-	15.20	7.9	ppbv	12964100	ISTD03	15.72	20416800	12.5

04011107.D 031611V1.M Thu Apr 14 11:51:25 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011108.D Vial: 6
Acq On : 1 Apr 2011 5:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:04 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

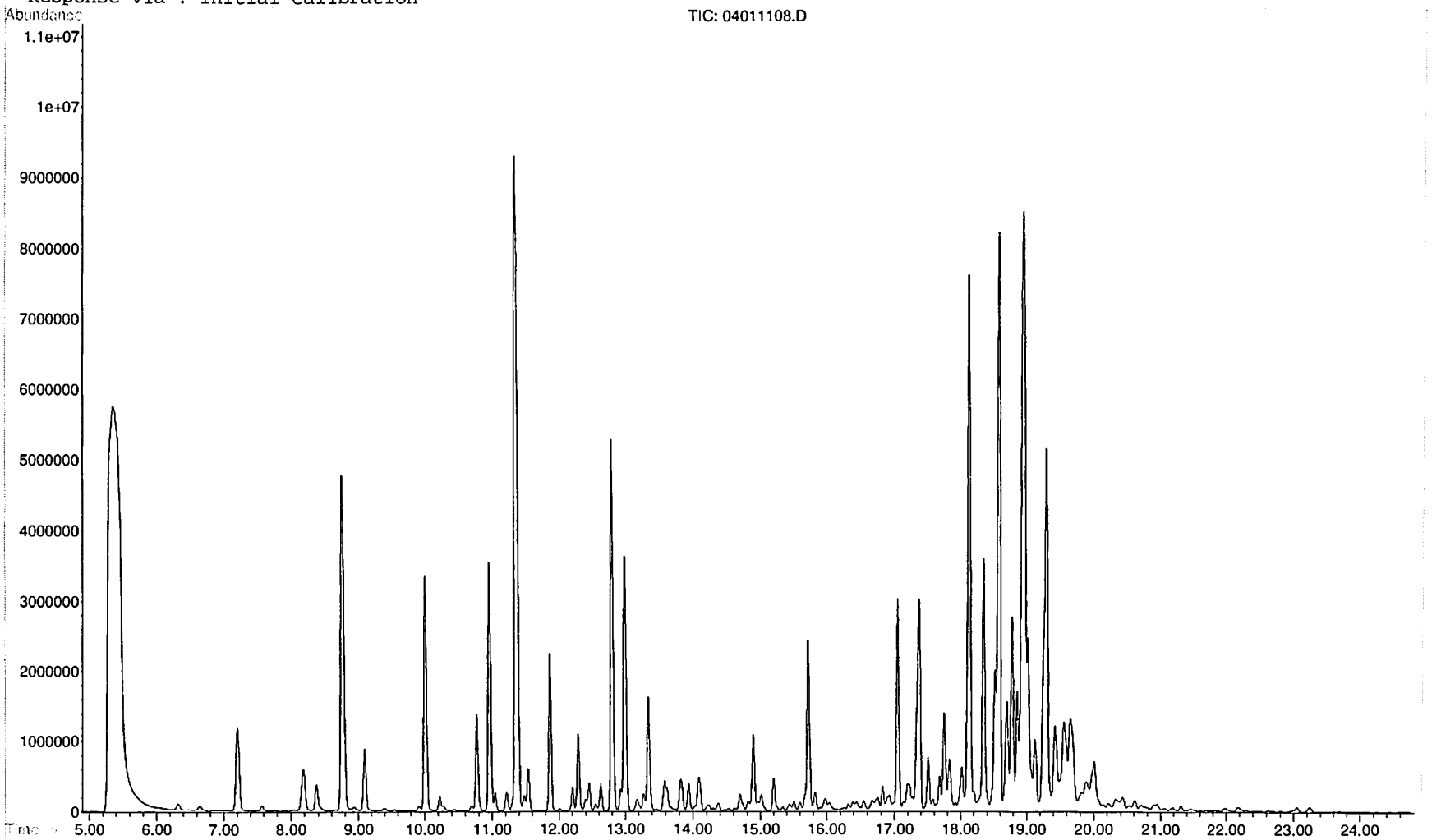
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.77	130	623180	12.50	ppbv	0.01
33) 1,4-Difluorobenzene	11.87	114	2314806	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1765793	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1072546	12.12	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.96%			
Target Compounds						Qvalue
11) Ethanol	7.75	45	5512	0.53	ppbv #	78
12) Freon113	8.17	101	149880	1.27	ppbv	95
14) Acetone	8.37	43	714218	9.30	ppbv #	93
29) Cyclohexane	11.04	56	92874	1.01	ppbv #	60
31) Benzene	11.48	78	82156	0.53	ppbv	93
41) Toluene	13.81	91	266557	1.53	ppbv	97

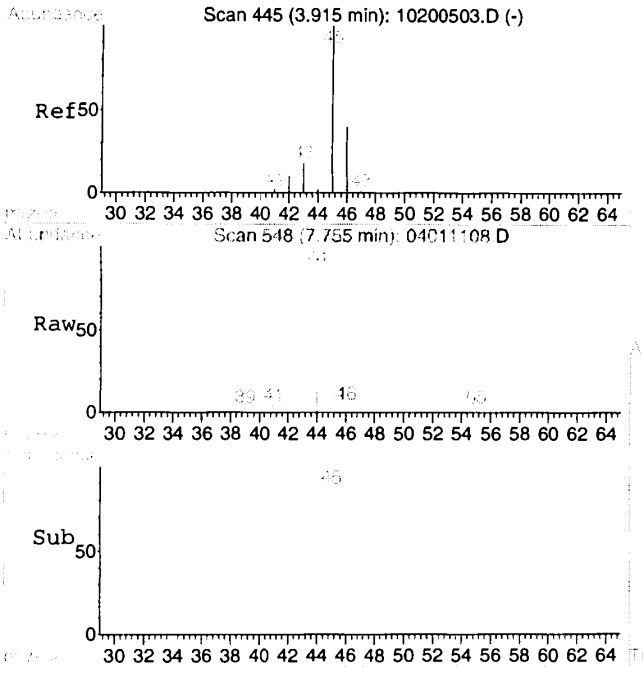
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D Vial: 6
Acq On : 1 Apr 2011 5:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:04 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

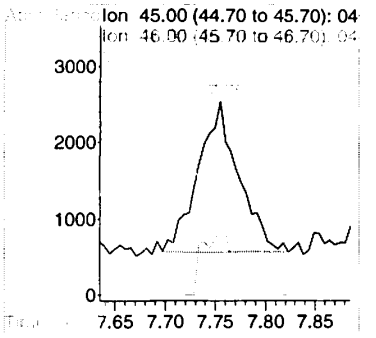


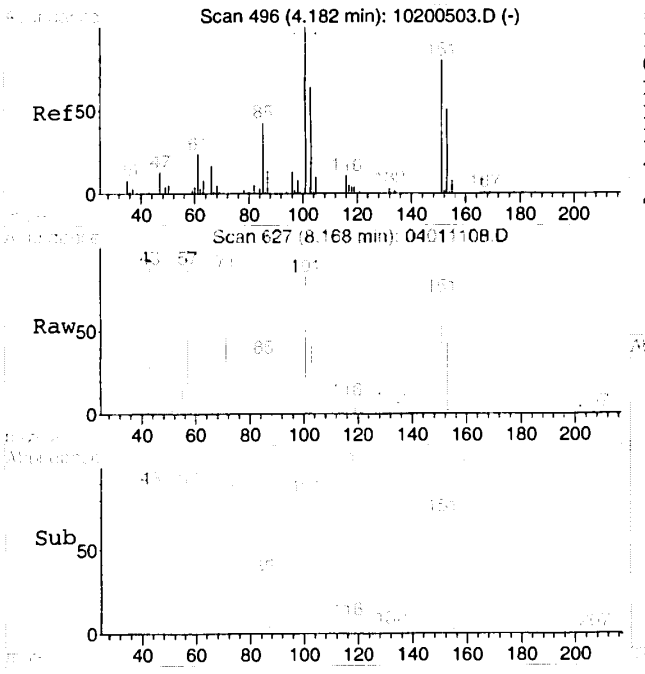


#11
Ethanol
Concen: 0.53 ppbv
RT: 7.75 min Scan# 548
Delta R.T. 0.02 min
Lab File: 04011108.D
Acq: 1 Apr 2011 5:14 pm

Tgt Ion: 45 Resp: 5512

Ion	Ratio	Lower	Upper
45	100		
46	31.3	30.2	45.4
43	0.0	15.8	23.6#

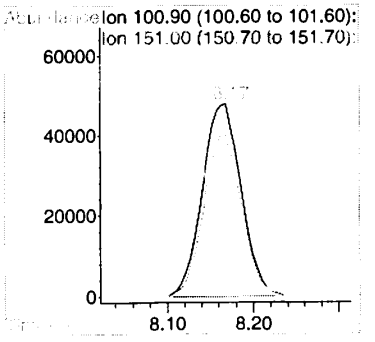


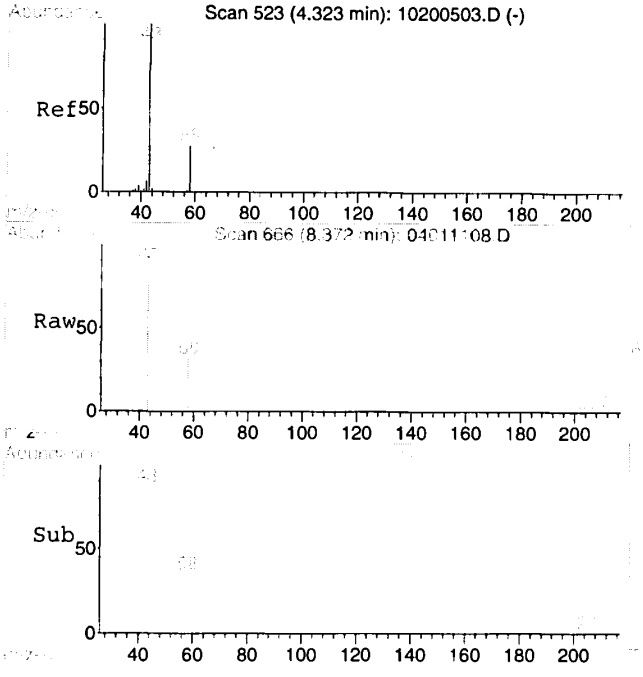


#12
Freon113
Concen: 1.27 ppbv
RT: 8.17 min Scan# 627
Delta R.T. 0.00 min
Lab File: 04011108.D
Acq: 1 Apr 2011 5:14 pm

Tgt Ion:101 Resp: 149880

Ion	Ratio	Lower	Upper
101	100		
151	82.6	70.5	105.7
85	42.4	32.0	48.0

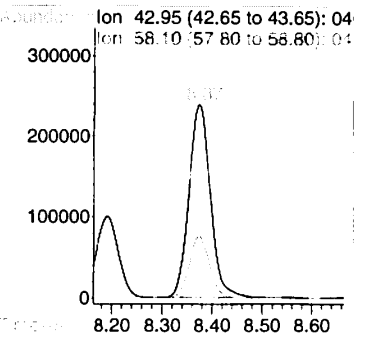


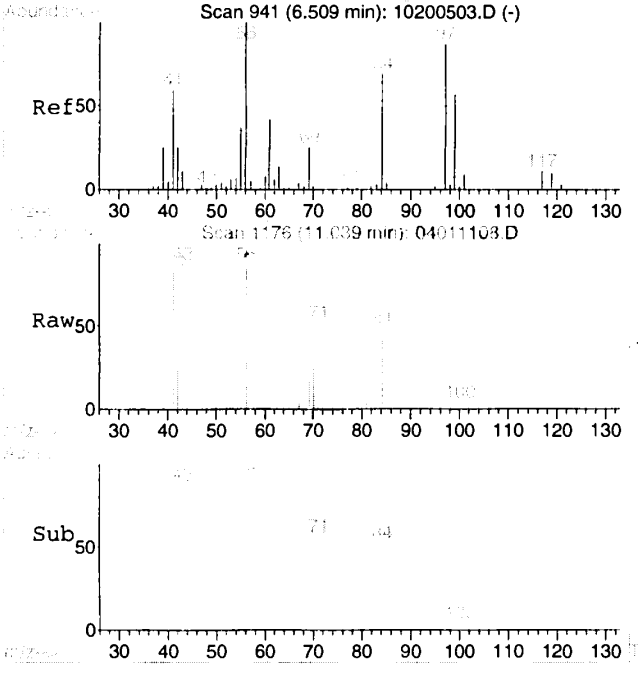


#14
Acetone
Concen: 9.30 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.01 min
Lab File: 04011108.D
Acq: 1 Apr 2011 5:14 pm

Tgt Ion: 43 Resp: 714218

Ion	Ratio	Lower	Upper
43	100		
58	30.5	22.0	33.0
39	4.8	6.5	9.7#

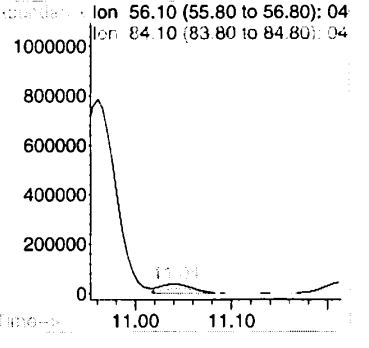


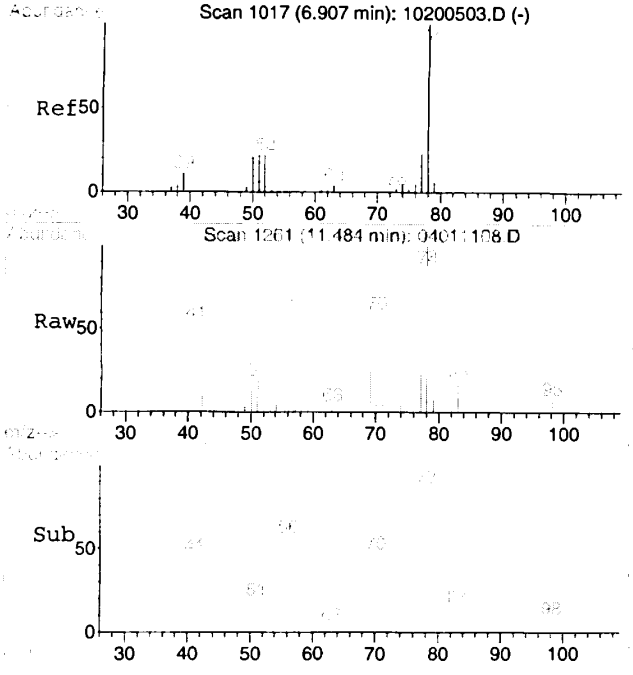


#29
Cyclohexane
Concen: 1.01 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011108.D
Acq: 1 Apr 2011 5:14 pm

Tgt Ion: 56 Resp: 92874

Ion	Ratio	Lower	Upper
56	100		
84	56.9	72.4	108.6#
41	88.9	43.8	65.8#

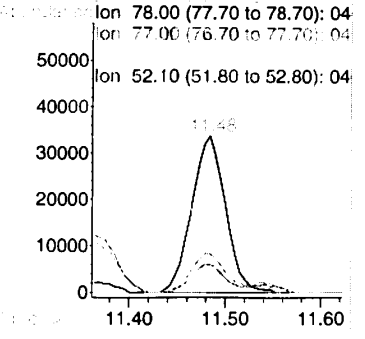


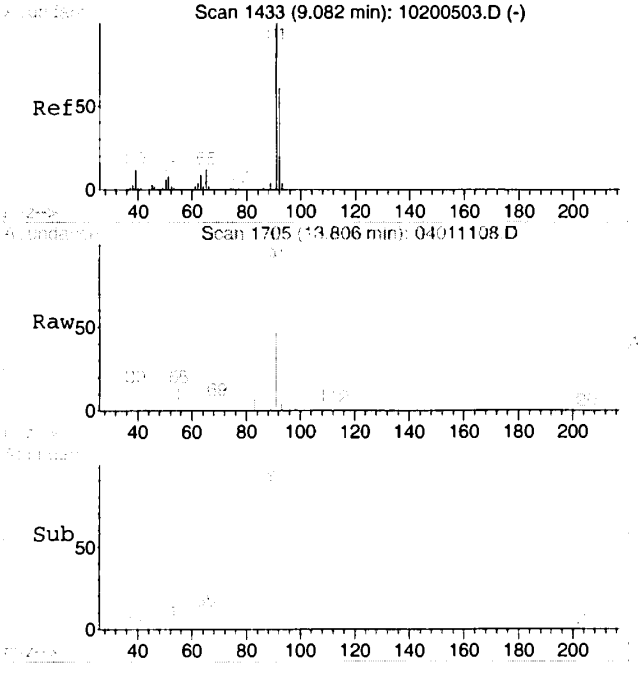


#31
Benzene
Concen: 0.53 ppbv
RT: 11.48 min Scan# 1261
Delta R.T. 0.01 min
Lab File: 04011108.D
Acq: 1 Apr 2011 5:14 pm

Tgt Ion: 78 Resp: 82156

Ion	Ratio	Lower	Upper
78	100		
77	25.7	3.7	43.7
51	21.4	0.0	36.1
52	18.9	0.0	36.0

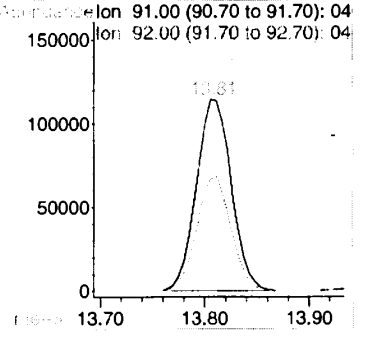




#41
Toluene
Concen: 1.53 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011108.D
Acq: 1 Apr 2011 5:14 pm

Tgt Ion: 91 Resp: 266557

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	12.9	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D Vial: 6
Acq On : 1 Apr 2011 5:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.354	57	89	189	rBV	5771331	74759262	100.00%	19.956%
2	7.206	429	443	461	rVB	1187545	3970122	5.31%	1.060%
3	8.184	615	630	650	rVB3	585257	2191874	2.93%	0.585%
4	8.372	655	666	689	rVB	373874	1214628	1.62%	0.324%
5	8.764	726	741	765	rBV	4771722	15750633	21.07%	4.204%
6	9.099	793	805	825	rVB	879421	2460014	3.29%	0.657%
7	10.014	968	980	1004	rVB	3364743	9035758	12.09%	2.412%
8	10.772	1115	1125	1142	rVB	1385106	3555222	4.76%	0.949%
9	10.961	1148	1161	1171	rBV	3553865	9368348	12.53%	2.501%
10	11.217	1199	1210	1219	rBV3	276784	752423	1.01%	0.201%
11	11.363	1219	1238	1252	rVV	9302285	32016633	42.83%	8.547%
12	11.536	1264	1271	1286	rVB2	599343	1570310	2.10%	0.419%
13	11.871	1322	1335	1352	rBV	2254825	5274238	7.05%	1.408%
14	12.206	1386	1399	1406	rBV	333399	799144	1.07%	0.213%
15	12.289	1406	1415	1428	rVV	1091092	2750734	3.68%	0.734%
16	12.451	1439	1446	1456	rVV	401391	1051879	1.41%	0.281%
17	12.629	1472	1480	1494	rVB	393510	966237	1.29%	0.258%
18	12.802	1498	1513	1528	rBV	5279628	13984573	18.71%	3.733%
19	12.990	1540	1549	1570	rVB	3641060	10168591	13.60%	2.714%
20	13.346	1608	1617	1633	rVB	1619166	4297782	5.75%	1.147%
21	13.581	1646	1662	1667	rBV2	427434	1203822	1.61%	0.321%
22	13.822	1696	1708	1720	rBV5	442316	1505093	2.01%	0.402%
23	13.937	1720	1730	1741	rBV2	378738	936524	1.25%	0.250%
24	14.083	1750	1758	1772	rVB3	470462	1553730	2.08%	0.415%
25	14.889	1903	1912	1922	rVV2	986318	2416356	3.23%	0.645%
26	15.197	1960	1971	1990	rBV2	471885	1309058	1.75%	0.349%
27	15.720	2054	2071	2084	rVV	2412739	6641142	8.88%	1.773%
28	17.049	2315	2325	2335	rVB	2967152	6882841	9.21%	1.837%
29	17.373	2371	2387	2399	rVB4	2997219	10628175	14.22%	2.837%
30	17.509	2399	2413	2421	rBV3	736275	1847710	2.47%	0.493%
31	17.676	2438	2445	2451	rBV	411564	918264	1.23%	0.245%
32	17.749	2451	2459	2467	rVV2	1319176	3679498	4.92%	0.982%
33	17.828	2467	2474	2486	rVB2	662887	1851906	2.48%	0.494%
34	18.016	2496	2510	2518	rBV3	542214	1691292	2.26%	0.451%
35	18.126	2518	2531	2543	rVV	7438351	20607098	27.56%	5.501%
36	18.346	2553	2573	2590	rVB	3514461	8955661	11.98%	2.391%
37	18.518	2591	2606	2609	rBV	1922327	4695381	6.28%	1.253%
38	18.581	2610	2618	2629	rVB	8082789	22328103	29.87%	5.960%
39	18.701	2629	2641	2648	rBV2	1414150	4232746	5.66%	1.130%
40	18.775	2648	2655	2664	rVB2	2348176	5592343	7.48%	1.493%
41	18.858	2664	2671	2675	rBV	1278919	2749515	3.68%	0.734%
42	18.947	2676	2688	2697	rBV3	7525183	27661382	37.00%	7.384%
43	19.120	2715	2721	2734	rVB2	893620	2586024	3.46%	0.690%

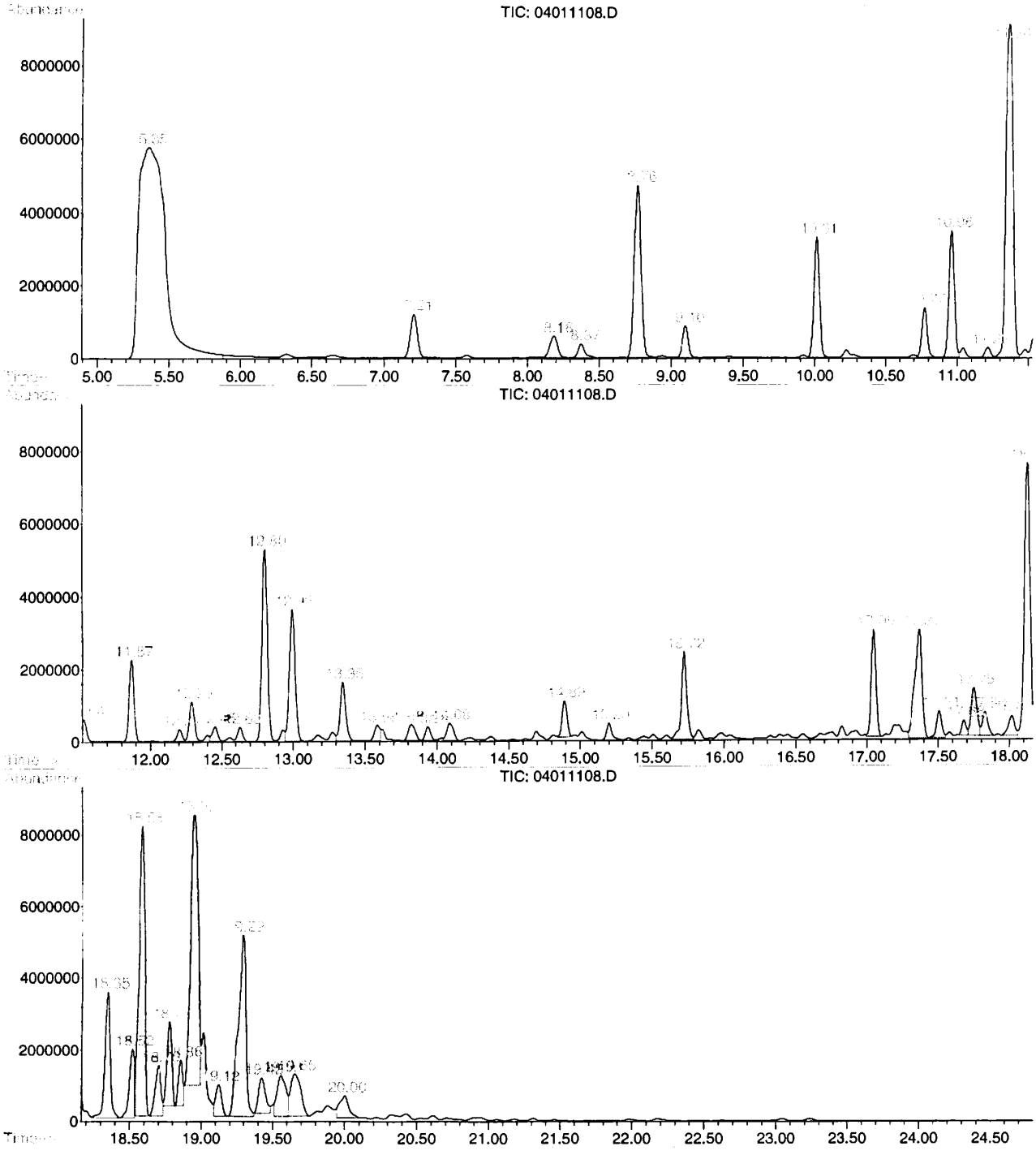
44	19.287	2734	2753	2769	rBV3	5042196	19231994	25.73%	5.134%
45	19.423	2769	2779	2791	rBV2	992506	3437954	4.60%	0.918%
46	19.554	2796	2804	2815	rVV3	1138125	5002580	6.69%	1.335%
47	19.653	2815	2823	2842	rVB5	1177978	5738968	7.68%	1.532%
48	20.004	2879	2890	2911	rVB4	624855	2791655	3.73%	0.745%

Sum of corrected areas: 374615220

04011108.D 031611V1.M Thu Apr 14 11:54:03 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011108.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 5:14 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-013B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 6
Quant File :031611V1.RES (RTE Integrator)



04011108.D 031611V1.M Thu Apr 14 11:54:04 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D
Acq On : 1 Apr 2011 5:14 pm
Sample : 1103389-013B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 6
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 10.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	262.85 ppbv	74759300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Acetaldehyde $$ Acetic aldehyde $$	44	C2H4O	000075-07-0	3
3	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Ethylene oxide	44	C2H4O	000075-21-8	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.21	13.96 ppbv	3970120	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Butane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	55.38 ppbv	15750600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D Vial: 6
Acq On : 1 Apr 2011 5:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	8.65 ppbv	2460010	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	56
5	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45

****

Peak Number 5 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	31.77 ppbv	9035760	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	32.94 ppbv	9368350	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D
Acq On : 1 Apr 2011 5:14 pm
Sample : 1103389-013B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 6
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 10.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Butane, 2,2,3,3-tetramethyl- $ Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	75.88 ppbv	32016600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	64
5	Pentane, 2,2,4-trimethyl- $$ Isobut	114	C8H18	000540-84-1	64

****

Peak Number 8 Pentane, 2,3,4-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	33.14 ppbv	13984600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64
4	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	56

****

Peak Number 9 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	24.10 ppbv	10168600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	83
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	72
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
4	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	50

Data File : C:\HPCHEM\1\DATA\040111\04011108.D
Acq On : 1 Apr 2011 5:14 pm
Sample : 1103389-013B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 6
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 10.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,2,5-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	10.19 ppbv	4297780	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	72

****

Peak Number 11 Octane, 2,2,6-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	12.95 ppbv	6882840	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
2	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	59
3	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	59
4	Hexane, 2,2,5,5-tetramethyl- $$ Bin	142	C10H22	001071-81-4	53
5	Heptane, 2,2,4-trimethyl- $$ 2,2,4-	142	C10H22	014720-74-2	53

****

Peak Number 12 Dodecane, 2,2,11,11-tetramethy Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.13	38.79 ppbv	20607100	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
2	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	72
3	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
4	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	64
5	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D Vial: 6
Acq On : 1 Apr 2011 5:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Heptane, 2,2,4,6,6-pentamethyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	16.86 ppbv	8955660	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
3	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
4	Decane, 2,2,9-trimethyl-	184	C13H28	062238-00-0	72
5	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	72

****

Peak Number 14 Undecane, 2,5-dimethyl- $$ 2,5 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.52	8.84 ppbv	4695380	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,5-dimethyl- $$ 2,5-Dime	184	C13H28	017301-22-3	64
2	Nonane, 2,2,4,4,6,8,8-heptamethyl-	226	C16H34	004390-04-9	59
3	Nonane, 2,2,4,4,6,8,8-heptamethyl-	226	C16H34	004390-04-9	59
4	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	59
5	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	53

****

Peak Number 15 Undecane, 5,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	42.03 ppbv	22328100	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	72
2	Heneicosane $$ n-Heneicosane	296	C21H44	000629-94-7	64
3	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	59
4	Heptadecane, 8-methyl- $$ 8-Methylh	254	C18H38	013287-23-5	56
5	Undecane, 3,4-dimethyl-	184	C13H28	017312-78-6	56

Data File : C:\HPCHEM\1\DATA\040111\04011108.D Vial: 6
Acq On : 1 Apr 2011 5:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Dodecane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	10.53 ppbv	5592340	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 3-methyl-	184	C13H28	017312-57-1	78
2	Nonane, 3,7-dimethyl- $$ 3,7-Dimeth	156	C11H24	017302-32-8	72
3	Heptadecane	240	C17H36	000629-78-7	59
4	Decane	142	C10H22	000124-18-5	56
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	53

****

Peak Number 17 Hexane, 2,2,5,5-tetramethyl- $ Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	52.06 ppbv	27661400	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5,5-tetramethyl- $$ Bin	142	C10H22	001071-81-4	53
2	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	53
3	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	50
4	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	47
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	47

****

Peak Number 18 Nonane, 3-methyl-5-propyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.29	36.20 ppbv	19232000	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	64
2	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	64
3	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	50
4	Nonane, 3,7-dimethyl- $$ 3,7-Dimeth	156	C11H24	017302-32-8	50
5	1-Iodo-2-methylnonane	268	C10H21I	000000-00-0	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011108.D
Acq On : 1 Apr 2011 5:14 pm
Sample : 1103389-013B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 6
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 10.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Dodecane, 5-methyl- $$ 5-Methy Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	9.42 ppbv	5002580	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 5-methyl- $$ 5-Methyldode	184	C13H28	017453-93-9	64
2	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	64
3	Hexane, 2,3,4-trimethyl- $$ 2,3,4-T	128	C9H20	000921-47-1	64
4	Nonane, 5-(2-methylpropyl)-	184	C13H28	062185-53-9	53
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	52

****

Peak Number 20 Decane, 2,3,5-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.65	10.80 ppbv	5738970	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	72
2	Decane, 3-methyl-	156	C11H24	013151-34-3	50
3	Nonane, 5-(1-methylpropyl)-	184	C13H28	062185-54-0	50
4	Nonadecane $$ n-Nonadecane	268	C19H40	000629-92-5	50
5	Heptane, 2,5,5-trimethyl- $$ 2,5,5-	142	C10H22	001189-99-7	47

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 5:14 pm
Data File: C:\HPCHEM\1\DATA\040111\04011108.D
Name: 1103389-013B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethylene oxide	5.35	262.9	ppbv	74759300	ISTD01	10.77	3555220	12.5
Butane, 2-methyl-	7.21	14.0	ppbv	3970120	ISTD01	10.77	3555220	12.5
Butane, 2,3-dimethyl	8.76	55.4	ppbv	15750600	ISTD01	10.77	3555220	12.5
Pentane, 3-methyl-	9.10	8.6	ppbv	2460010	ISTD01	10.77	3555220	12.5
Pentane, 2,4-dimethy	10.01	31.8	ppbv	9035760	ISTD01	10.77	3555220	12.5
Pentane, 2,3-dimethy	10.96	32.9	ppbv	9368350	ISTD01	10.77	3555220	12.5
Butane, 2,2,3,3-tetr	11.36	75.9	ppbv	32016600	ISTD02	11.87	5274240	12.5
Pentane, 2,3,4-trime	12.80	33.1	ppbv	13984600	ISTD02	11.87	5274240	12.5
Pentane, 2,3,3-trime	12.99	24.1	ppbv	10168600	ISTD02	11.87	5274240	12.5
Hexane, 2,2,5-trimet	13.35	10.2	ppbv	4297780	ISTD02	11.87	5274240	12.5
Octane, 2,2,6-trimet	17.05	13.0	ppbv	6882840	ISTD03	15.72	6641140	12.5
Dodecane, 2,2,11,11-	18.13	38.8	ppbv	20607100	ISTD03	15.72	6641140	12.5
Heptane, 2,2,4,6,6-p	18.35	16.9	ppbv	8955660	ISTD03	15.72	6641140	12.5
Undecane, 2,5-dimeth	18.52	8.8	ppbv	4695380	ISTD03	15.72	6641140	12.5
Undecane, 5,7-dimeth	18.58	42.0	ppbv	22328100	ISTD03	15.72	6641140	12.5
Dodecane, 3-methyl-	18.77	10.5	ppbv	5592340	ISTD03	15.72	6641140	12.5
Hexane, 2,2,5,5-tetr	18.95	52.1	ppbv	27661400	ISTD03	15.72	6641140	12.5
Nonane, 3-methyl-5-p	19.29	36.2	ppbv	19232000	ISTD03	15.72	6641140	12.5
Dodecane, 5-methyl-	19.55	9.4	ppbv	5002580	ISTD03	15.72	6641140	12.5
Decane, 2,3,5-trimet	19.65	10.8	ppbv	5738970	ISTD03	15.72	6641140	12.5

04011108.D 031611V1.M Thu Apr 14 11:54:04 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011109.D Vial: 6
Acq On : 1 Apr 2011 5:57 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:04 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

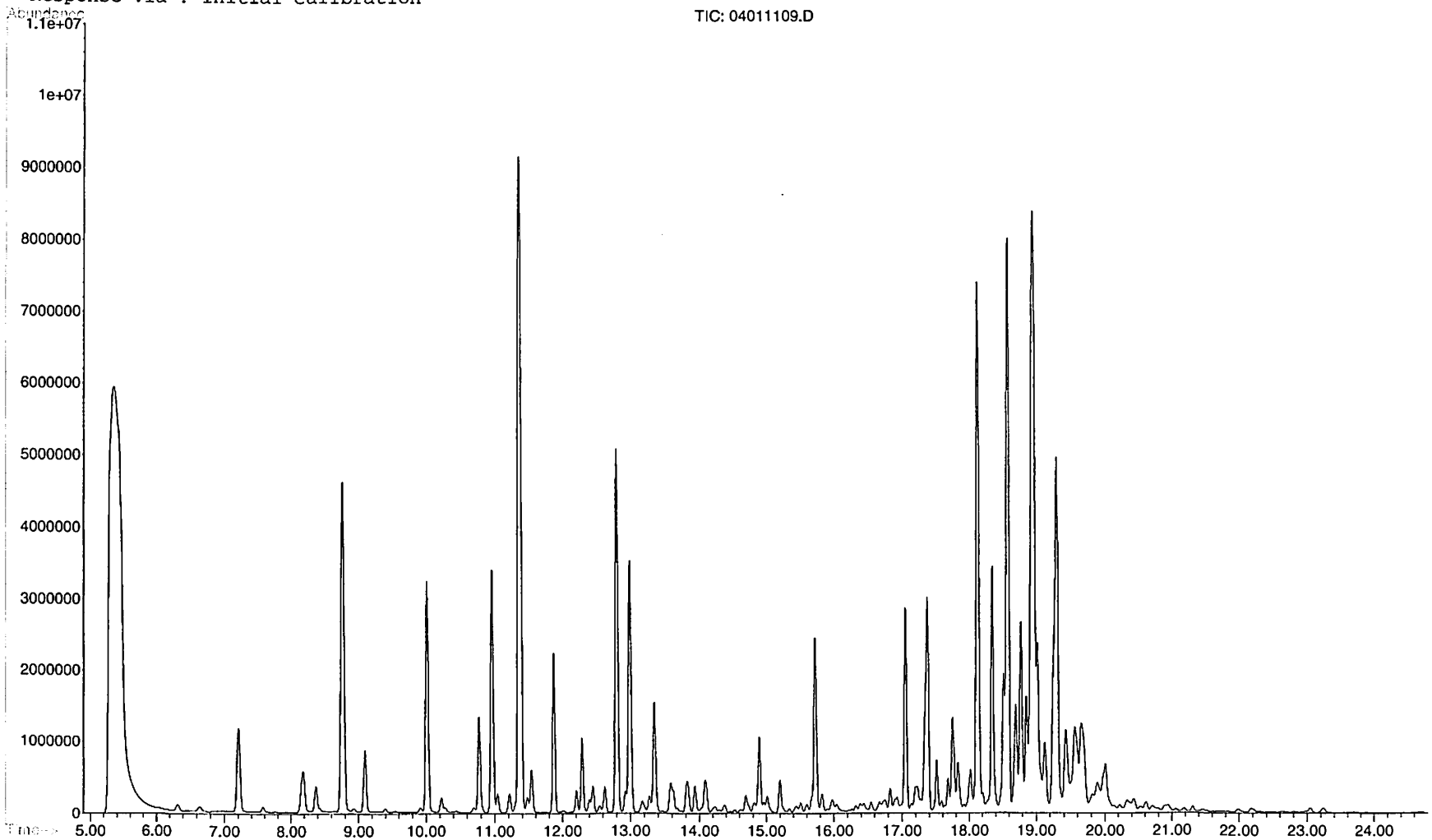
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	598773	12.50	ppbv		0.01
33) 1,4-Difluorobenzene	11.87	114	2266002	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1750880	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1076224	12.26	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.08%				
Target Compounds							Qvalue
12) Freon113	8.16	101	146509	1.30	ppbv		94
14) Acetone	8.37	43	669377	9.07	ppbv	#	93
16) 2-Propanol	8.43	45	84834	1.60	ppbv	#	1
29) Cyclohexane	11.04	56	98670	1.11	ppbv	#	64
31) Benzene	11.48	78	82829	0.56	ppbv		93
34) Heptane	11.53	43	62299	0.57	ppbv	#	58
41) Toluene	13.81	91	263863	1.55	ppbv		97

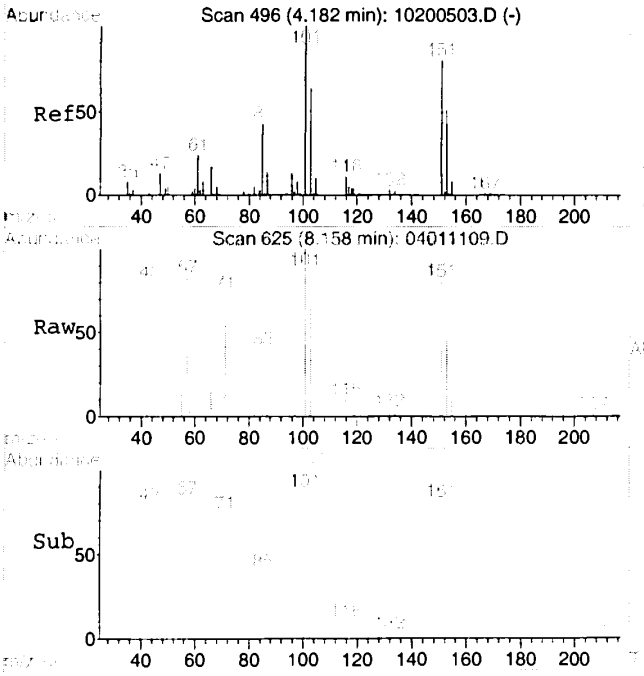
(#) = qualifier out of range (m) = manual integration
04011109.D 031611V1.M Thu Apr 14 11:54:12 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011109.D Vial: 6
Acq On : 1 Apr 2011 5:57 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-013BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:04 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

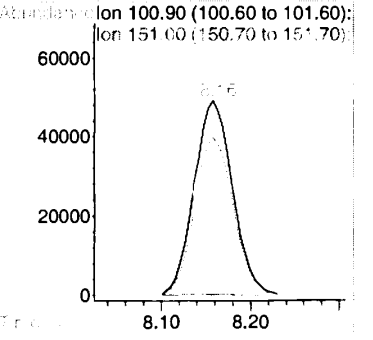


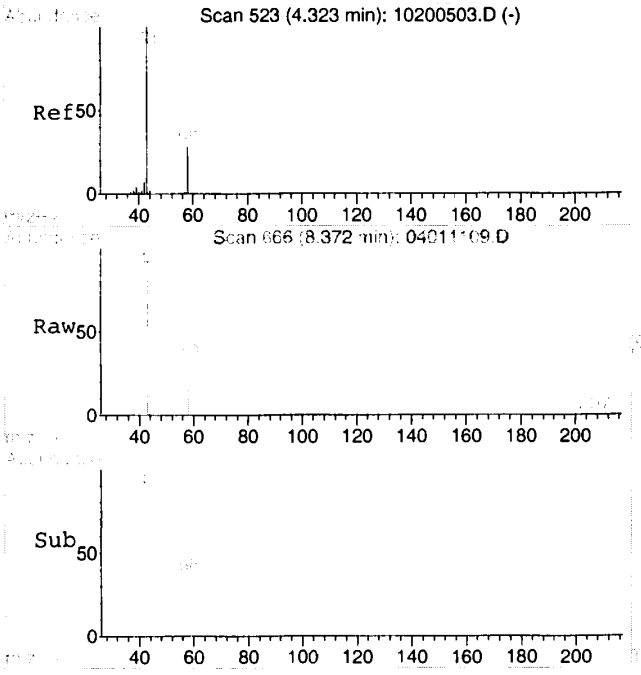


#12
Freon113
Concen: 1.30 ppbv
RT: 8.16 min Scan# 625
Delta R.T. -0.01 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion:101 Resp: 146509

Ion	Ratio	Lower	Upper
101	100		
151	81.5	70.5	105.7
85	41.6	32.0	48.0

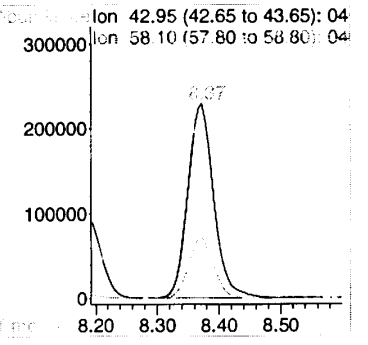


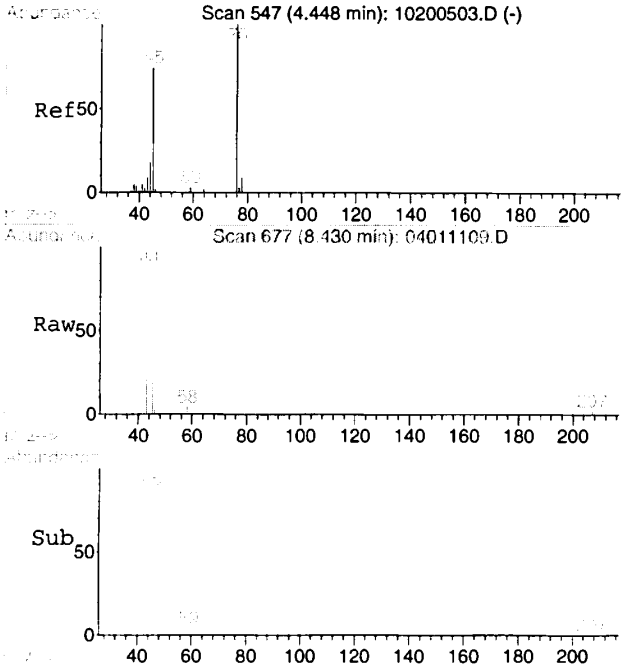


#14
Acetone
Concen: 9.07 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.01 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion: 43 Resp: 669377

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.0	33.0
39	4.9	6.5	9.7#

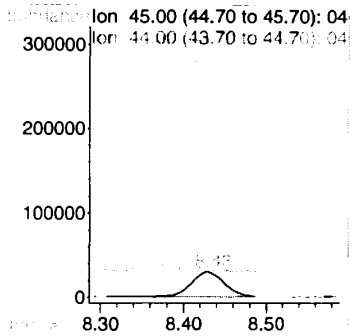


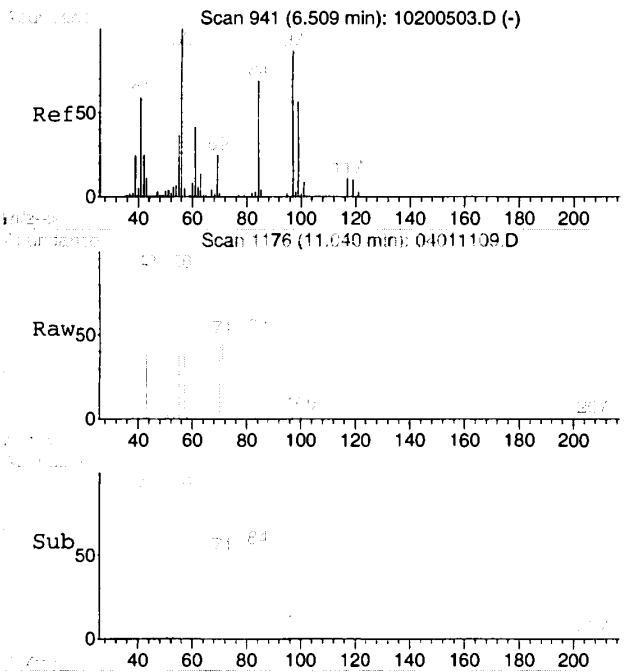


#16
2-Propanol
Concen: 1.60 ppbv
RT: 8.43 min Scan# 677
Delta R.T. 0.03 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion: 45 Resp: 84834

Ion	Ratio	Lower	Upper
45	100		
44	3.8	5.2	7.8#
43	0.0	101.1	151.7#

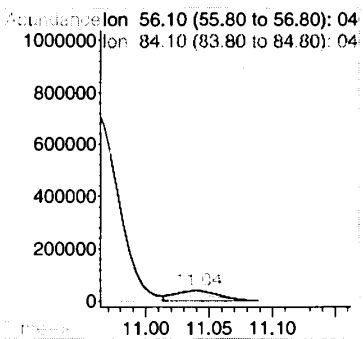


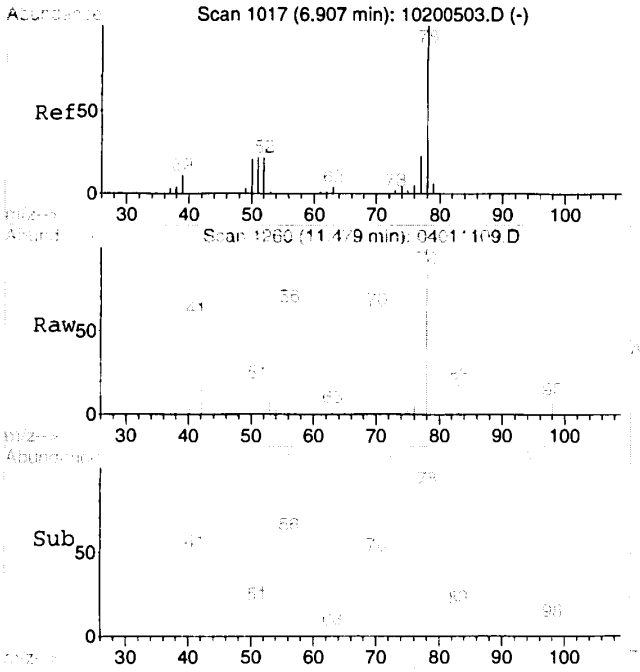


#29
Cyclohexane
Concen: 1.11 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion: 56 Resp: 98670

Ion	Ratio	Lower	Upper
56	100		
84	57.1	72.4	108.6#
41	81.1	43.8	65.8#

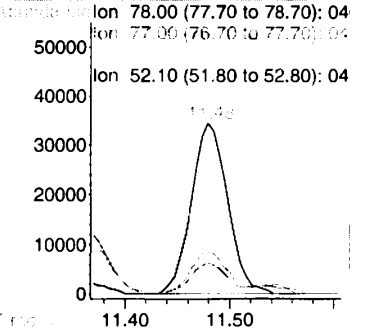


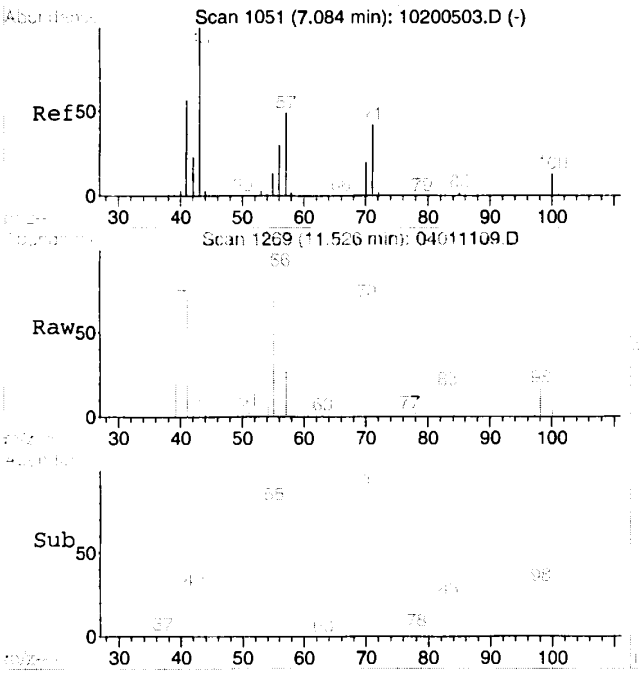


#31
Benzene
Concen: 0.56 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion: 78 Resp: 82829

Ion	Ratio	Lower	Upper
78	100		
77	26.4	3.7	43.7
51	20.8	0.0	36.1
52	18.7	0.0	36.0

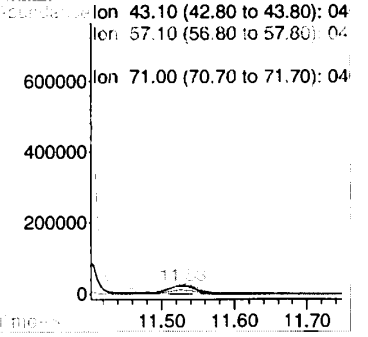


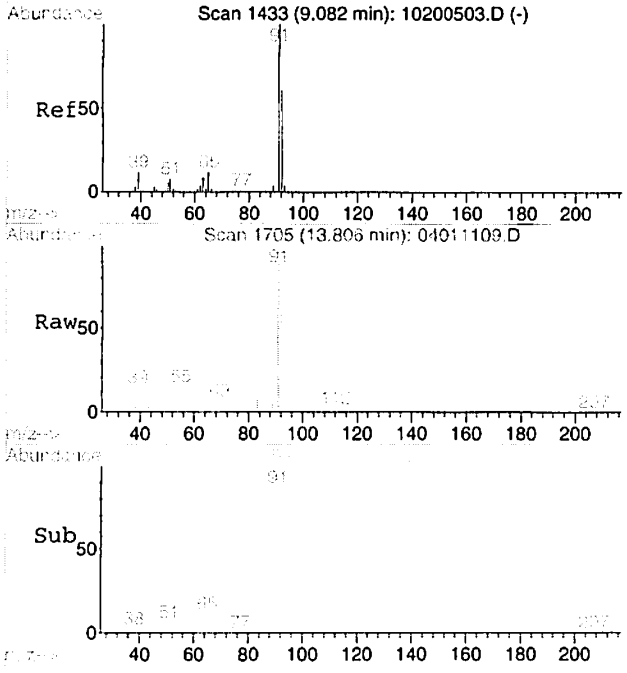


#34
Heptane
Concen: 0.57 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion: 43 Resp: 62299

Ion	Ratio	Lower	Upper
43	100		
57	0.0	42.2	63.4#
100	8.0	17.3	25.9#
71	46.8	48.3	72.5#

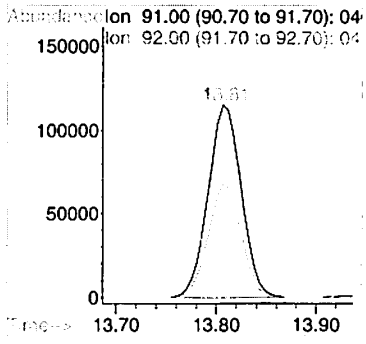




#41
Toluene
Concen: 1.55 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011109.D
Acq: 1 Apr 2011 5:57 pm

Tgt Ion: 91 Resp: 263863

Ion	Ratio	Lower	Upper
91	100		
92	58.6	40.5	80.5
65	12.8	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:06 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	575014	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2136269	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1735744	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1098334	12.63	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.04%				
Target Compounds							Qvalue
2) Propylene *	5.69	41	185472	4.30	ppbv	#	82
11) Ethanol *	7.74	45	8606	0.90	ppbv	#	68
14) Acetone *	8.36	43	167965	2.37	ppbv	#	96
17) Methylene chloride *	8.92	49	387301	6.69	ppbv		95
- 20) n-Hexane	9.39	57	3432433	40.88	ppbv		99
- 29) Cyclohexane	11.04	56	3266169	38.42	ppbv		83
- 31) Benzene	11.48	78	5652085	39.76	ppbv		96
34) Heptane *	11.52	43	1160774	11.25	ppbv	#	90
41) Toluene *	13.80	91	1452454	9.02	ppbv		99
50) Ethylbenzene *	15.80	91	190222	0.94	ppbv		93
51) m,p-Xylene *	15.95	91	580102	3.71	ppbv		92
52) o-Xylene *	16.56	91	247714	1.63	ppbv	#	87
57) 4-Ethyltoluene *	17.74	105	103664	0.57	ppbv		99
58) 1,3,5-Trimethylbenzene *	17.86	105	84989	0.57	ppbv		91
59) 1,2,4-Trimethylbenzene *	18.45	105	132440	0.99	ppbv		96

* All reported ch 4/15/11

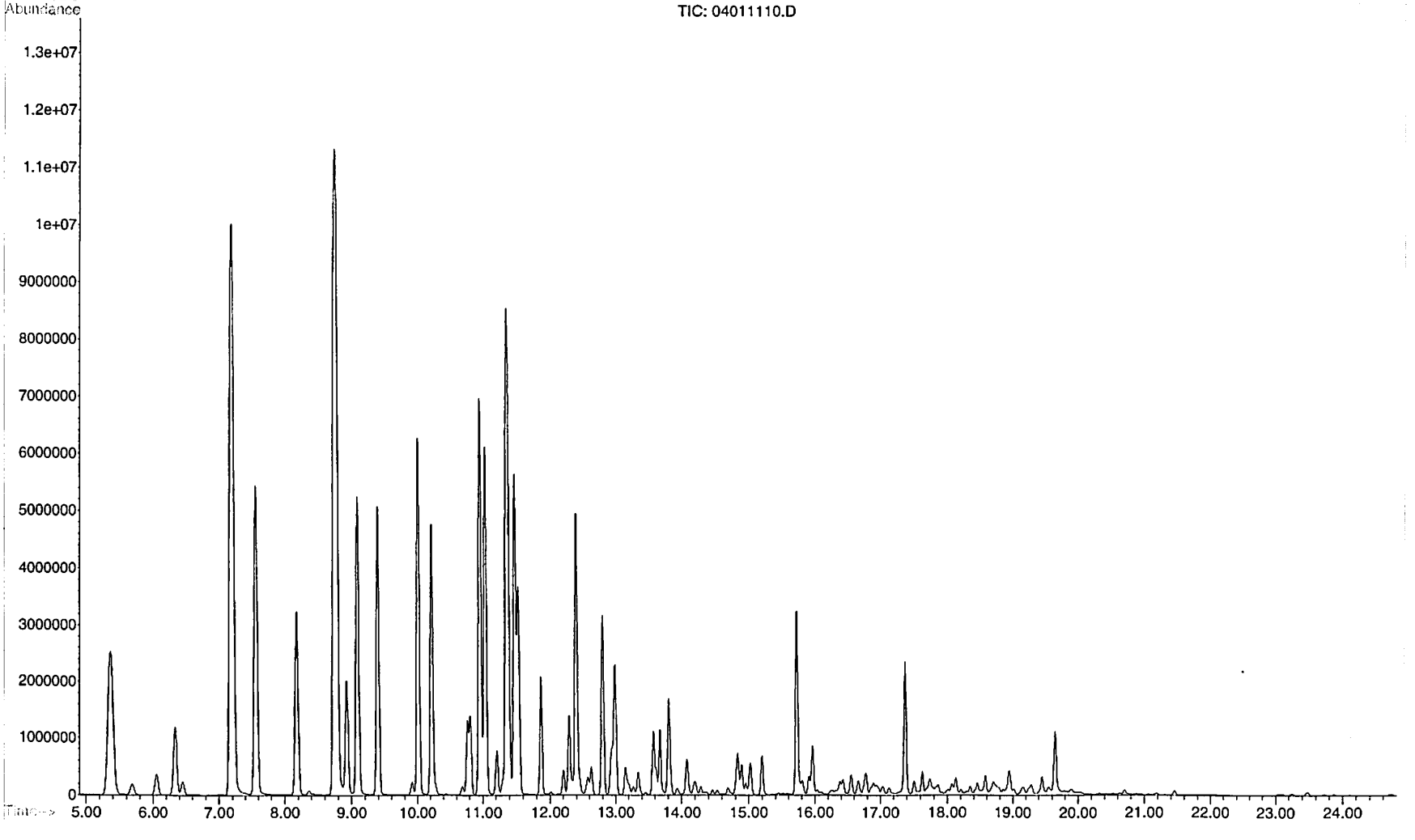
- = Not reported

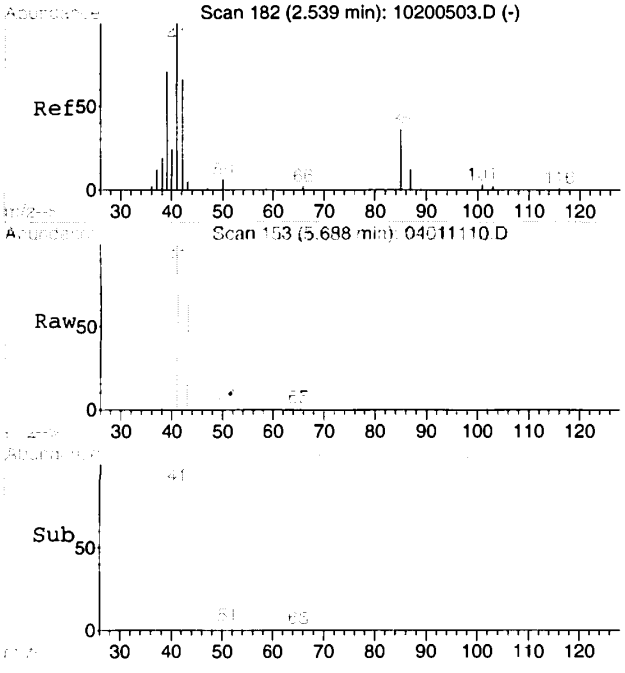
(#) = qualifier out of range (m) = manual integration
04011110.D 031611V1.M Thu Apr 14 11:54:19 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:06 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

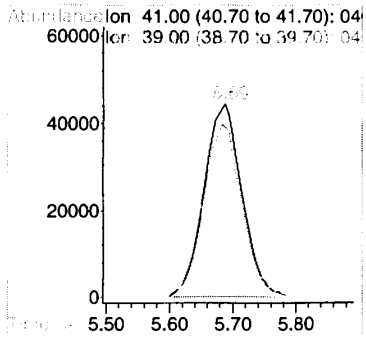


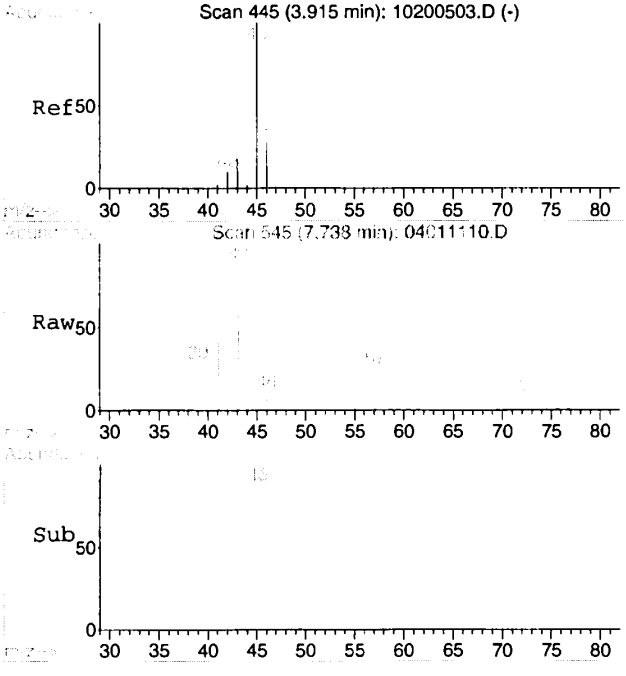


#2
Propylene
Concen: 4.30 ppbv
RT: 5.69 min Scan# 153
Delta R.T. 0.01 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 41 Resp: 185472

Ion	Ratio	Lower	Upper
41	100		
39	90.3	57.6	86.4#
42	55.7	54.0	81.0

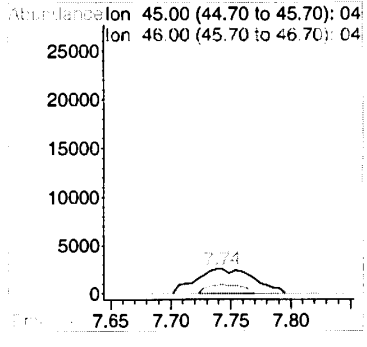


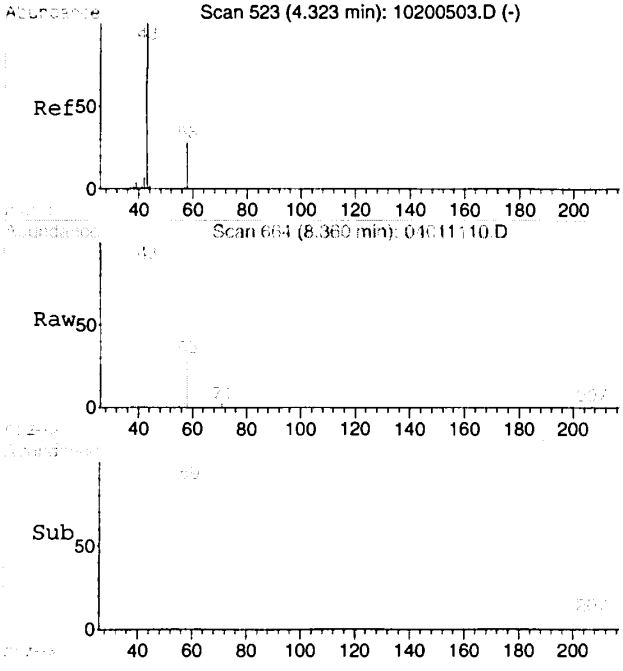


#11
Ethanol
Concen: 0.90 ppbv
RT: 7.74 min Scan# 545
Delta R.T. 0.01 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 45 Resp: 8606

Ion	Ratio	Lower	Upper
45	100		
46	21.7	30.2	45.4#
43	0.0	15.8	23.6#

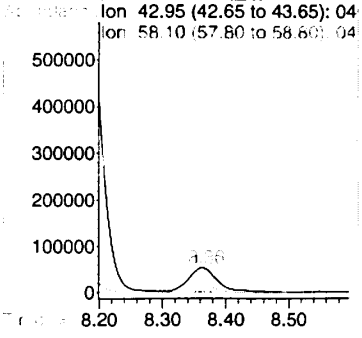


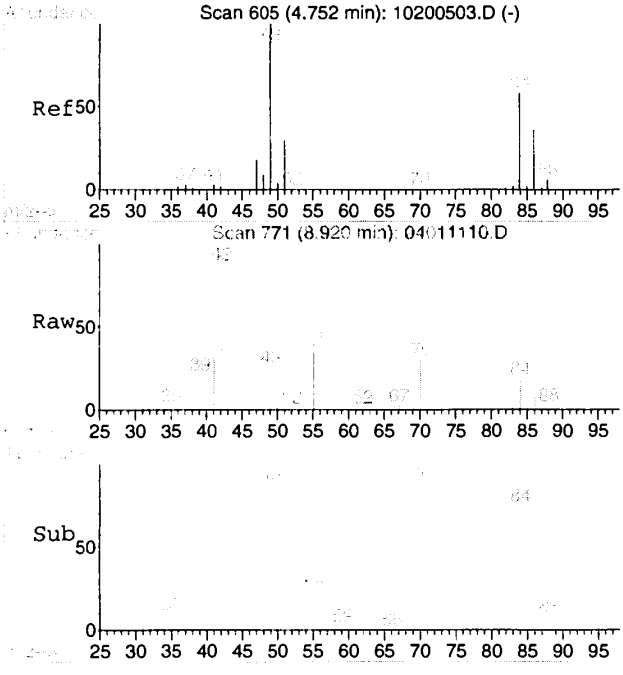


#14
Acetone
Concen: 2.37 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 43 Resp: 167965

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.0	33.0
39	3.4	6.5	9.7#

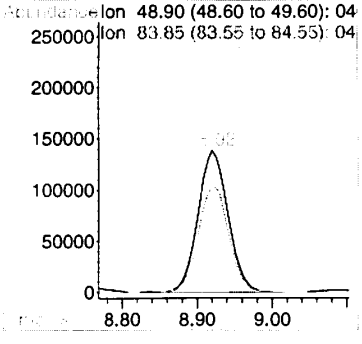


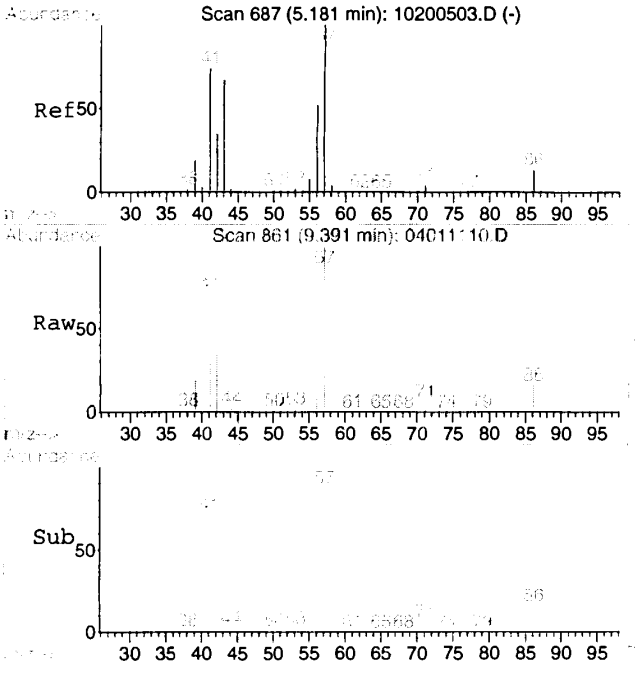


#17
Methylene chloride
Concen: 6.69 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 49 Resp: 387301

Ion	Ratio	Lower	Upper
49	100		
84	77.8	65.4	98.2
86	48.2	42.3	63.5

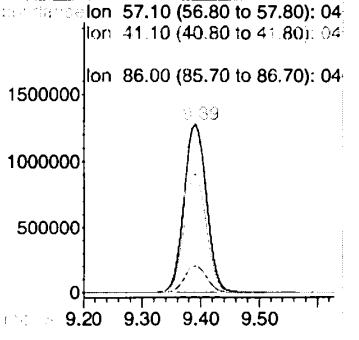


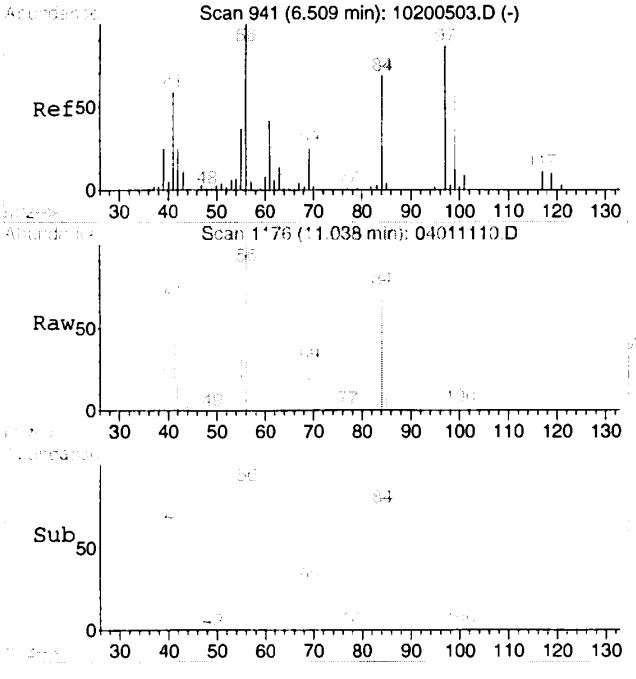


#20
n-Hexane
Concen: 40.88 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 57 Resp: 3432433

Ion	Ratio	Lower	Upper
57	100		
41	71.6	57.2	85.8
53	2.4	1.8	2.8
86	15.8	13.4	20.0

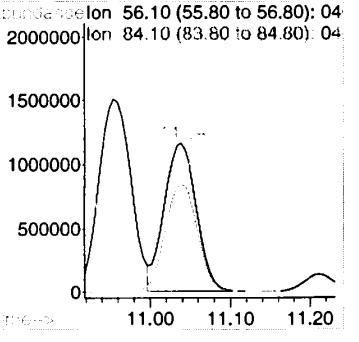


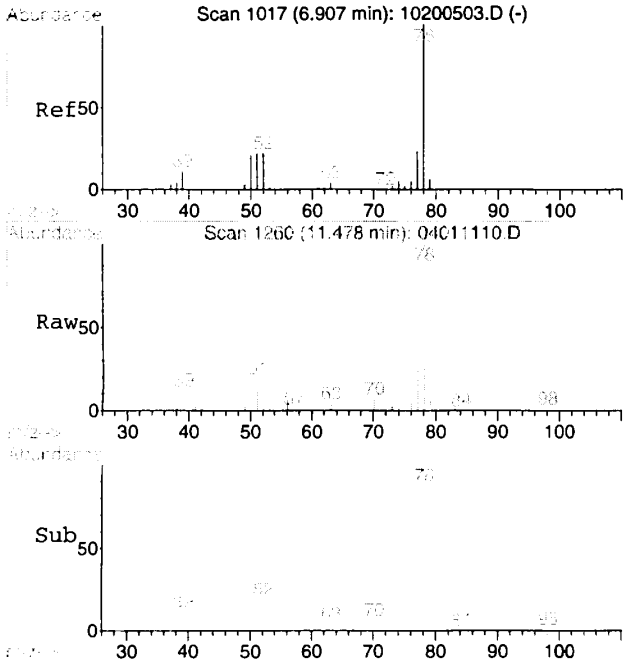


#29
Cyclohexane
Concen: 38.42 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 56 Resp: 3266169

Ion	Ratio	Lower	Upper
56	100		
84	73.5	72.4	108.6
41	65.0	43.8	65.8

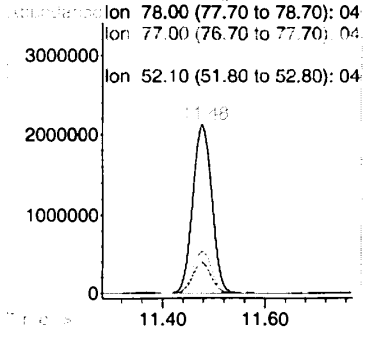


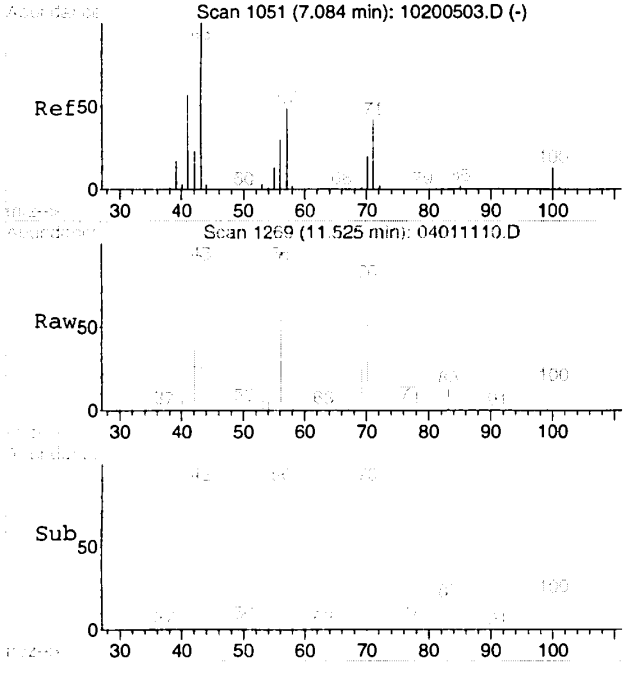


#31
Benzene
Concen: 39.76 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 78 Resp: 5652085

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	18.5	0.0	36.1
52	18.1	0.0	36.0

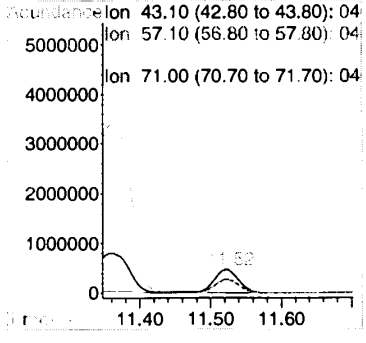


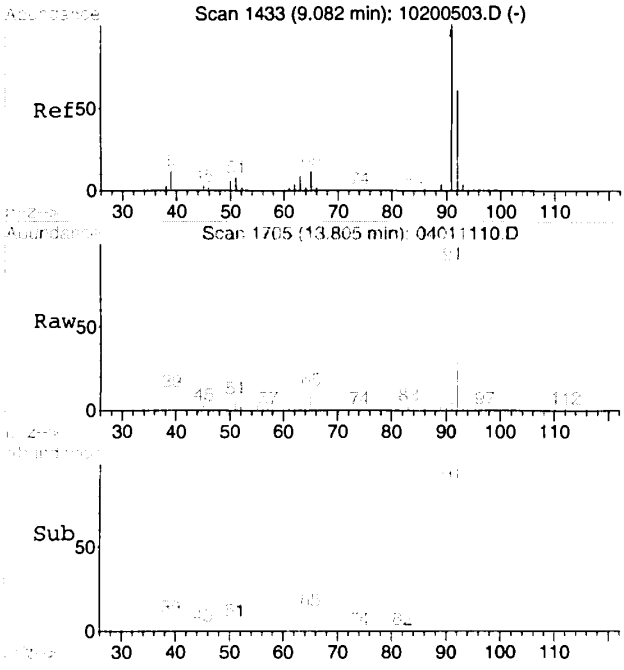


#34
Heptane
Concen: 11.25 ppbv
RT: 11.52 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 43 Resp: 1160774

Ion	Ratio	Lower	Upper
43	100		
57	61.8	42.2	63.4
100	14.5	17.3	25.9#
71	56.0	48.3	72.5

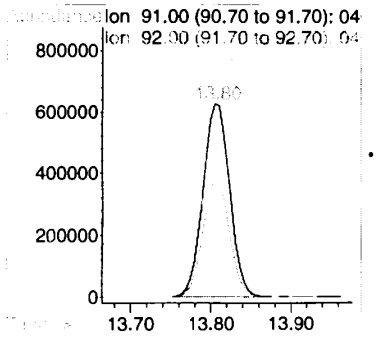


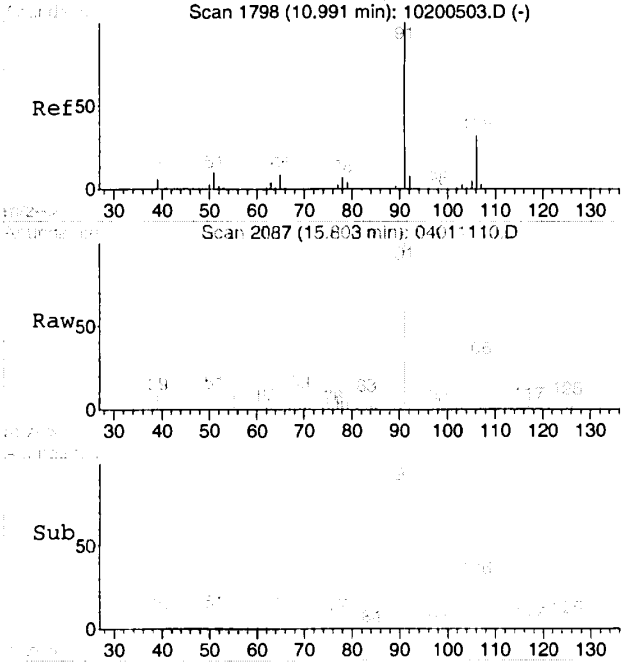


#41
Toluene
Concen: 9.02 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 91 Resp: 1452454

Ion	Ratio	Lower	Upper
91	100		
92	59.9	40.5	80.5
65	11.8	0.0	31.2

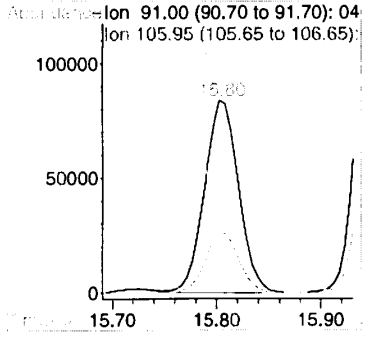


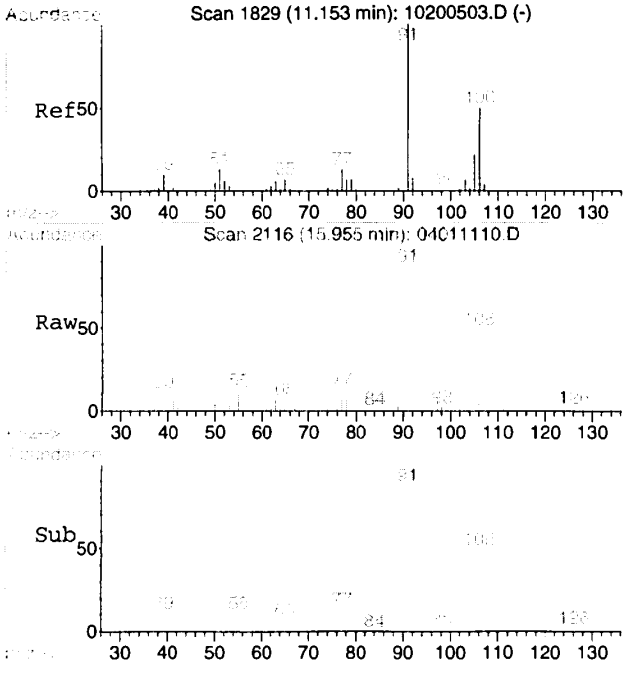


#50
Ethylbenzene
Concen: 0.94 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 91 Resp: 190222

Ion	Ratio	Lower	Upper
91	100		
106	30.6	14.9	54.9
51	11.0	0.0	33.1

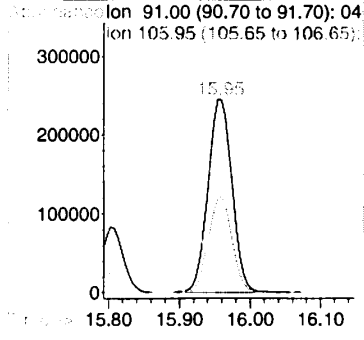


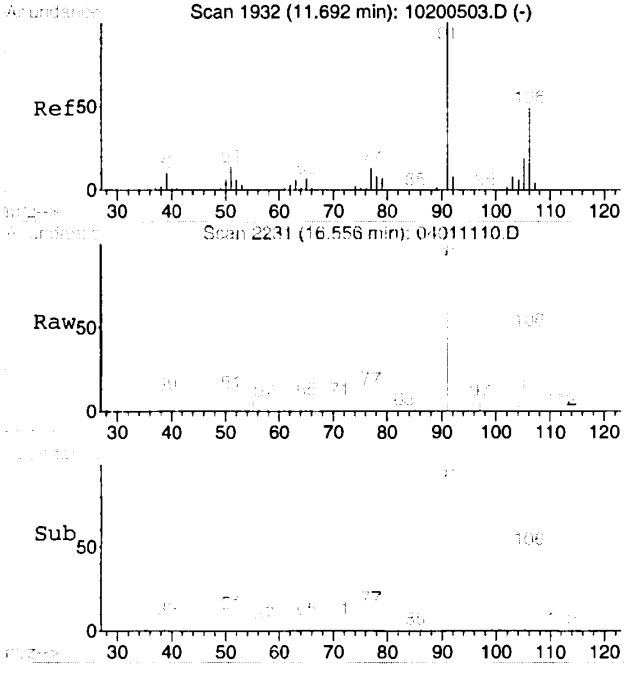


#51
m,p-Xylene
Concen: 3.71 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 91 Resp: 580102

Ion	Ratio	Lower	Upper
91	100		
106	49.1	35.6	75.6
51	11.0	0.0	29.6

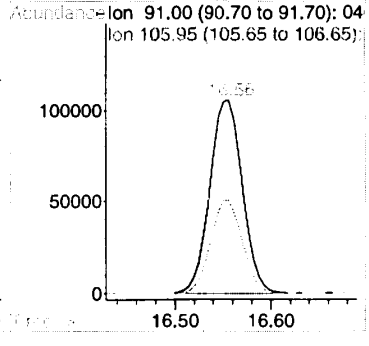


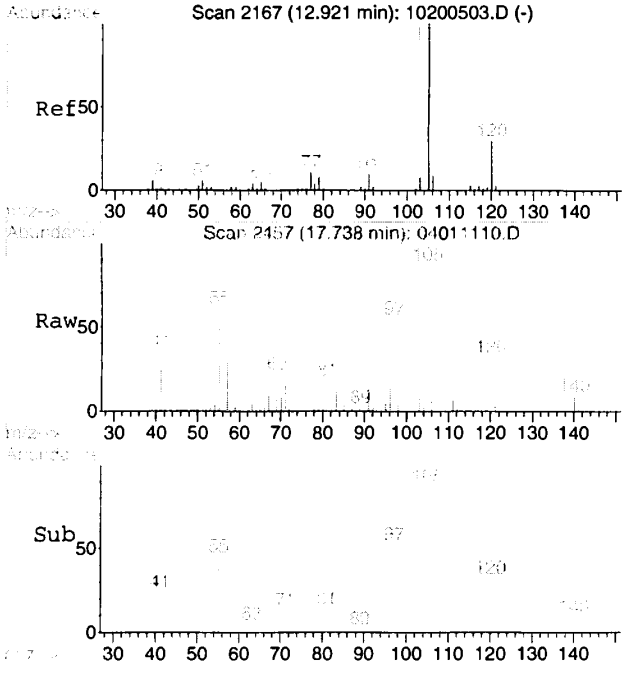


#52
o-Xylene
Concen: 1.63 ppbv
RT: 16.56 min Scan# 2231
Delta R.T. 0.01 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion: 91 Resp: 247714

Ion	Ratio	Lower	Upper
91	100		
106	46.8	41.0	61.6
51	11.9	19.7	29.5#

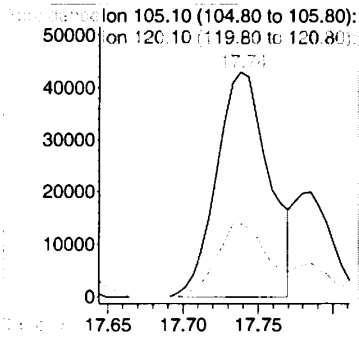


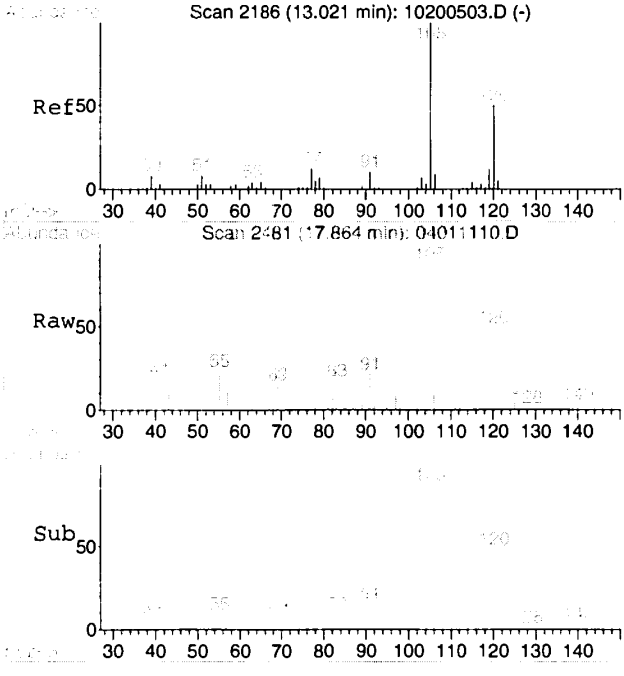


#57
4-Ethyltoluene
Concen: 0.57 ppbv
RT: 17.74 min Scan# 2457
Delta R.T. -0.05 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion:105 Resp: 103664

Ion	Ratio	Lower	Upper
105	100		
120	31.7	26.0	39.0

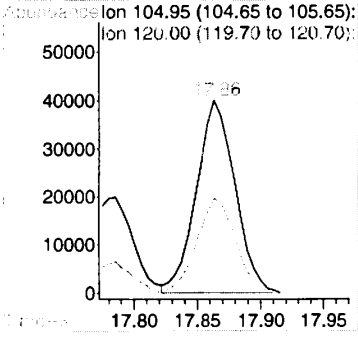


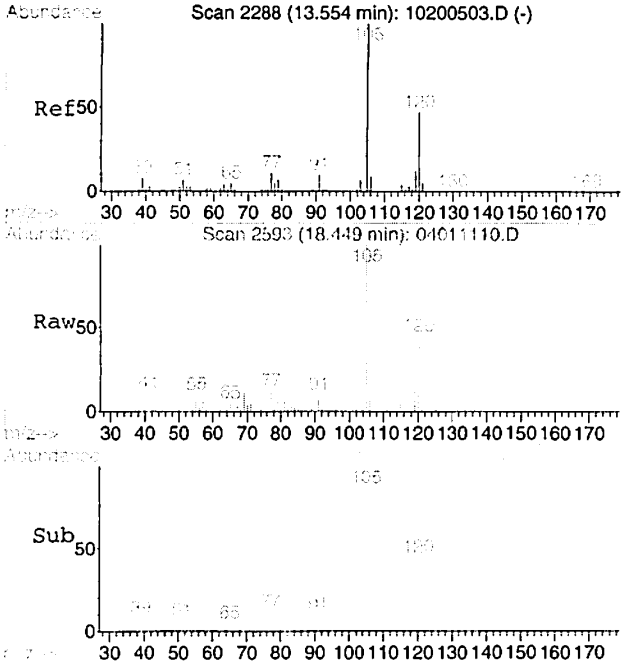


#58
1,3,5-Trimethylbenzene
Concen: 0.57 ppbv
RT: 17.86 min Scan# 2481
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion:105 Resp: 84989

Ion	Ratio	Lower	Upper
105	100		
120	49.3	32.1	72.1
91	23.5	0.0	30.4

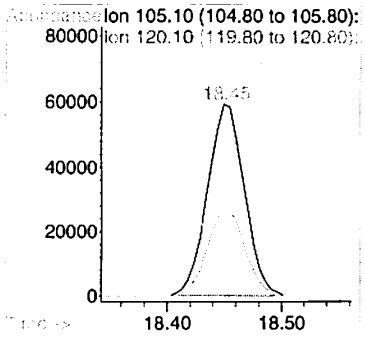




#59
1,2,4-Trimethylbenzene
Concen: 0.99 ppbv
RT: 18.45 min Scan# 2593
Delta R.T. 0.00 min
Lab File: 04011110.D
Acq: 1 Apr 2011 6:40 pm

Tgt Ion:105 Resp: 132440

Ion	Ratio	Lower	Upper
105	100		
120	45.9	38.9	58.3
91	10.9	8.2	12.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	61	91	136	rBV	2521689	14293181	26.63%	3.509%
2	5.683	136	152	173	rVB2	196928	844456	1.57%	0.207%
3	6.049	205	222	241	rBV	368357	1371385	2.56%	0.337%
4	6.331	258	276	289	rBV	1203104	4351669	8.11%	1.068%
5	6.446	289	298	316	rVB	239371	857321	1.60%	0.210%
6	7.184	422	439	493	rBV	10029326	44947275	83.74%	11.036%
7	7.560	496	511	540	rVB	5426653	18753369	34.94%	4.605%
8	8.177	613	629	654	rBV	3239515	10413214	19.40%	2.557%
9	8.753	713	739	761	rBV2	11332289	53674134	100.00%	13.179%
10	8.925	762	772	789	rVV2	2007845	6063730	11.30%	1.489%
11	9.087	789	803	831	rVB	5232555	15618271	29.10%	3.835%
12	9.391	848	861	892	rVB	5076225	13589097	25.32%	3.337%
13	9.914	947	961	967	rBV	232614	633915	1.18%	0.156%
14	10.008	967	979	1003	rVV	6267037	17832304	33.22%	4.378%
15	10.217	1006	1019	1047	rVB	4763560	13514780	25.18%	3.318%
16	10.766	1115	1124	1128	rBV	1253164	3065550	5.71%	0.753%
17	10.955	1147	1160	1168	rBV	6962478	19513582	36.36%	4.791%
18	11.038	1168	1176	1196	rVV2	6111711	17042882	31.75%	4.185%
19	11.211	1198	1209	1218	rVV	778045	2073825	3.86%	0.509%
20	11.362	1218	1238	1251	rVV	8547619	30733263	57.26%	7.546%
21	11.478	1251	1260	1265	rVV	5637455	15174507	28.27%	3.726%
22	11.525	1266	1269	1296	rVB4	3670604	8494049	15.83%	2.086%
23	11.865	1323	1334	1345	rBV	2078156	4824703	8.99%	1.185%
24	12.199	1388	1398	1406	rBV	431685	1019491	1.90%	0.250%
25	12.288	1406	1415	1425	rVV	1385037	3809188	7.10%	0.935%
26	12.393	1426	1435	1457	rVV	4952701	13525244	25.20%	3.321%
27	12.576	1458	1470	1474	rVV3	315728	962700	1.79%	0.236%
28	12.623	1474	1479	1490	rVB	496252	1195301	2.23%	0.293%
29	12.796	1499	1512	1527	rBV2	3169675	8229098	15.33%	2.020%
30	12.989	1527	1549	1568	rVB	2290761	8816348	16.43%	2.165%
31	13.151	1569	1580	1597	rVV2	486905	1821056	3.39%	0.447%
32	13.345	1609	1617	1631	rVB	394642	1068034	1.99%	0.262%
33	13.575	1647	1661	1674	rBV	1124083	3782039	7.05%	0.929%
34	13.674	1674	1680	1694	rVV	1144699	2583833	4.81%	0.634%
35	13.810	1694	1706	1721	rVB	1689713	4576001	8.53%	1.124%
36	14.077	1742	1757	1770	rBV2	627654	1740587	3.24%	0.427%
37	14.197	1770	1780	1791	rVB3	210806	649212	1.21%	0.159%
38	14.830	1888	1901	1907	rVV	738275	2087215	3.89%	0.512%
39	14.888	1907	1912	1919	rVV	538055	1321862	2.46%	0.325%
40	15.024	1929	1938	1956	rVB2	571233	1609197	3.00%	0.395%
41	15.196	1958	1971	1989	rBV	693954	1704034	3.17%	0.418%
42	15.719	2056	2071	2083	rBV	3232575	8002227	14.91%	1.965%
43	15.907	2098	2107	2110	rBV	314948	673887	1.26%	0.165%

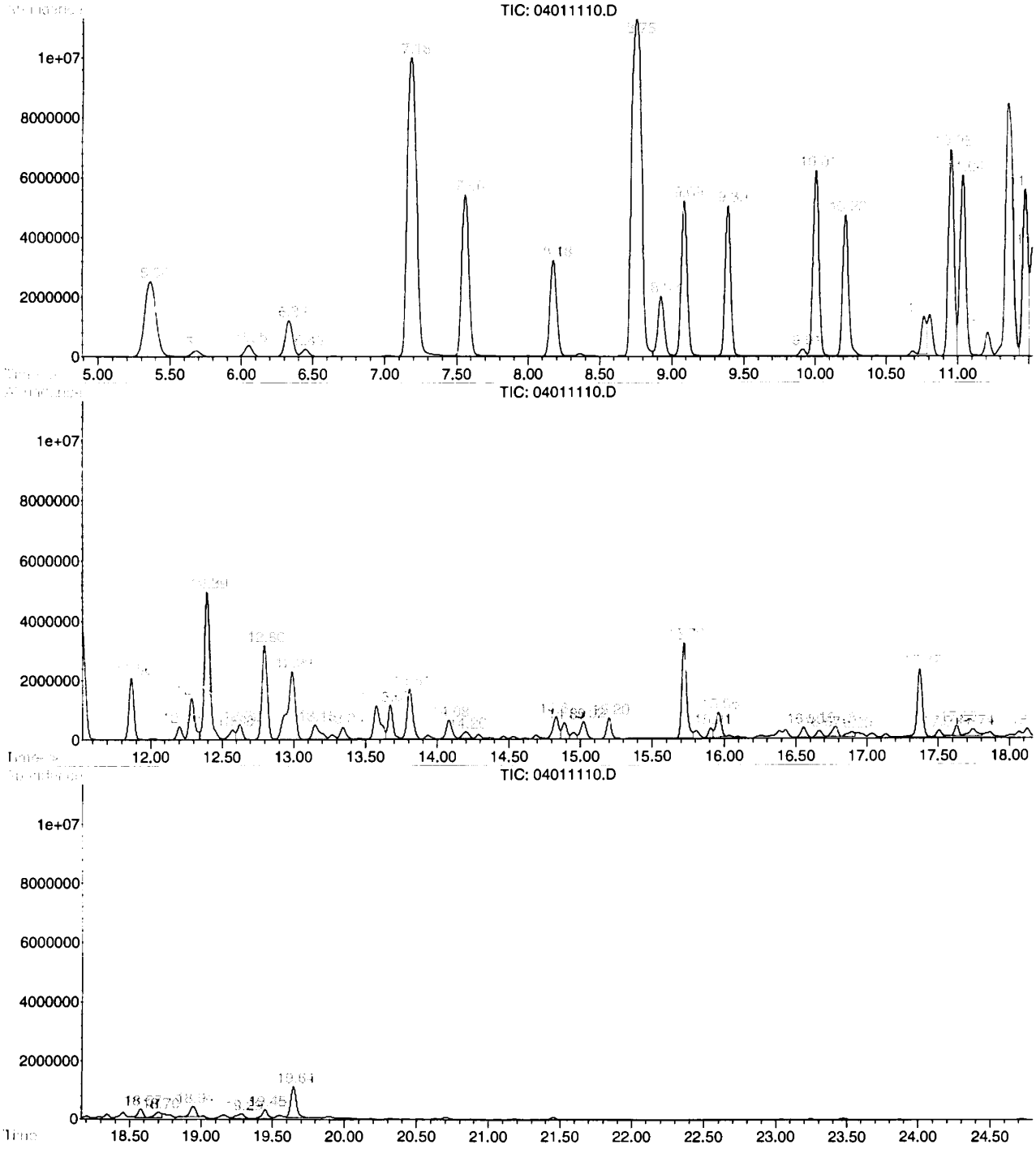
44	15.960	2110	2117	2128	rVB	814631	2055758	3.83%	0.505%
45	16.551	2220	2230	2241	rVB	335336	880319	1.64%	0.216%
46	16.666	2241	2252	2261	rBV4	234110	672841	1.25%	0.165%
47	16.776	2261	2273	2282	rVB6	340350	998066	1.86%	0.245%
48	16.891	2282	2295	2300	rBV8	163541	583111	1.09%	0.143%
49	17.372	2375	2387	2402	rVB	2318925	5586445	10.41%	1.372%
50	17.508	2403	2413	2421	rBV	226373	582367	1.09%	0.143%
51	17.628	2428	2436	2443	rBV2	360958	726951	1.35%	0.178%
52	17.743	2443	2458	2470	rVV5	238369	969568	1.81%	0.238%
53	18.125	2525	2531	2540	rVV	277611	703743	1.31%	0.173%
54	18.575	2609	2617	2625	rVB2	295420	715816	1.33%	0.176%
55	18.700	2627	2641	2646	rBV4	186128	606715	1.13%	0.149%
56	18.941	2678	2687	2697	rVB2	354381	1009264	1.88%	0.248%
57	19.286	2738	2753	2763	rVB3	157205	608423	1.13%	0.149%
58	19.448	2771	2784	2795	rBV	296561	819411	1.53%	0.201%
59	19.642	2812	2821	2842	rVB	1063407	2907445	5.42%	0.714%

Sum of corrected areas: 407283259

04011110.D 031611V1.M Thu Apr 14 11:54:28 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011110.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 6:40 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-004B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 7
Quant File :031611V1.RES (RTE Integrator)



04011110.D 031611V1.M Thu Apr 14 11:54:28 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	58.28 ppbv	14293200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Isobutane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.05	5.59 ppbv	1371390	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	80
2	Isobutane	58	C4H10	000075-28-5	72
3	Isobutane $$ Propane, 2-methyl- $$	58	C4H10	000075-28-5	59
4	Cyclobutylamine $$ Aminocyclobutane	71	C4H9N	002516-34-9	9
5	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	9

****

Peak Number 3 Butane $$ n-Butane $$ Diethyl Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	17.74 ppbv	4351670	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	80
3	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9
4	Isobutane	58	C4H10	000075-28-5	9
5	Diazene, dimethyl-	58	C2H6N2	000503-28-6	5

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.18	183.28 ppbv	44947300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25
5	3-Buten-1-ol	72	C4H8O	000627-27-0	25

****

Peak Number 5 Pentane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	76.47 ppbv	18753400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	86
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

****

Peak Number 6 Butane, 2,2-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	42.46 ppbv	10413200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2-iodo-3-methyl-	198	C5H11I	000000-00-0	33

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	218.86 ppbv	53674100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	87
2	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	72
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
4	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	59
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	45

****

Peak Number 8 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	63.68 ppbv	15618300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

****

Peak Number 9 Pentane, 2,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	72.71 ppbv	17832300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	55.11 ppbv	13514800	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclohexane	84	C6H12	000110-82-7	56

****

Peak Number 11 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	79.57 ppbv	19513600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 12 Cyclopentane, 1,1-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	8.46 ppbv	2073830	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	86
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	50
5	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Hexane, 2,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	79.62 ppbv	30733300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	64

****

Peak Number 14 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	9.87 ppbv	3809190	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
5	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38

****

Peak Number 15 Cyclohexane, methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	35.04 ppbv	13525200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Pentane, 2,3,4-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	21.32 ppbv	8229100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
4	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64
5	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	56

****

Peak Number 17 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	22.84 ppbv	8816350	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	68
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	64
4	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	58

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	4.72 ppbv	1821060	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	74
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	72
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	58

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011110.D Vial: 7
Acq On : 1 Apr 2011 6:40 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	9.80 ppbv	3782040	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 20 Octane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	6.69 ppbv	2583830	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
5	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 6:40 pm
Data File: C:\HPCHEM\1\DATA\040111\04011110.D
Name: 1103389-004B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	58.3	ppbv	14293200	ISTD01	10.77	3065550	12.5
Isobutane	6.05	5.6	ppbv	1371390	ISTD01	10.77	3065550	12.5
Butane $$ n-Butane $	6.33	17.7	ppbv	4351670	ISTD01	10.77	3065550	12.5
Butane, 2-methyl-	7.18	183.3	ppbv	44947300	ISTD01	10.77	3065550	12.5
Pentane	7.56	76.5	ppbv	18753400	ISTD01	10.77	3065550	12.5
Butane, 2,2-dimethyl	8.18	42.5	ppbv	10413200	ISTD01	10.77	3065550	12.5
Pentane, 2-methyl-	8.75	218.9	ppbv	53674100	ISTD01	10.77	3065550	12.5
Pentane, 3-methyl-	9.09	63.7	ppbv	15618300	ISTD01	10.77	3065550	12.5
Pentane, 2,4-dimethy	10.01	72.7	ppbv	17832300	ISTD01	10.77	3065550	12.5
Cyclopentane, methyl	10.22	55.1	ppbv	13514800	ISTD01	10.77	3065550	12.5
Pentane, 2,3-dimethy	10.95	79.6	ppbv	19513600	ISTD01	10.77	3065550	12.5
Cyclopentane, 1,1-di	11.21	8.5	ppbv	2073830	ISTD01	10.77	3065550	12.5
Hexane, 2,2-dimethyl	11.36	79.6	ppbv	30733300	ISTD02	11.86	4824700	12.5
Hexane, 2,4-dimethyl	12.29	9.9	ppbv	3809190	ISTD02	11.86	4824700	12.5
Cyclohexane, methyl-	12.39	35.0	ppbv	13525200	ISTD02	11.86	4824700	12.5
Pentane, 2,3,4-trime	12.80	21.3	ppbv	8229100	ISTD02	11.86	4824700	12.5
Pentane, 2,3,3-trime	12.99	22.8	ppbv	8816350	ISTD02	11.86	4824700	12.5
Heptane, 3-methyl-	13.15	4.7	ppbv	1821060	ISTD02	11.86	4824700	12.5
Cyclohexane, 1,3-dim	13.57	9.8	ppbv	3782040	ISTD02	11.86	4824700	12.5
Octane	13.67	6.7	ppbv	2583830	ISTD02	11.86	4824700	12.5

04011110.D 031611V1.M Thu Apr 14 11:54:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:07 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	566227	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1984676	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1641389	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1063817	12.93	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 103.44%				
Target Compounds							Qvalue
11) Ethanol*	7.74	45	17280	1.84	ppbv	#	79
14) Acetone*	8.36	43	470435	6.74	ppbv	#	94
17) Methylene chloride*	8.92	49	889549	15.60	ppbv		92
- 20) n-Hexane	9.39	57	2257378	27.30	ppbv		99
24) 2-Butanone*	10.43	43	129572	1.80	ppbv	#	90
- 29) Cyclohexane	11.03	56	2795625	33.39	ppbv	#	78
- 31) Benzene	11.48	78	3455438	24.69	ppbv		96
- 34) Heptane	11.52	43	2772935	28.93	ppbv	#	92
- 41) Toluene	13.81	91	7425550	49.64	ppbv		93
50) Ethylbenzene*	15.80	91	924842	4.85	ppbv		95
51) m,p-Xylene*	15.96	91	2127352	14.40	ppbv		95
52) o-Xylene*	16.55	91	606696	4.22	ppbv	#	87
57) 4-Ethyltoluene*	17.74	105	206219	1.20	ppbv		98
58) 1,3,5-Trimethylbenzene*	17.86	105	104180	0.73	ppbv		91
59) 1,2,4-Trimethylbenzene*	18.45	105	185989	1.47	ppbv		96

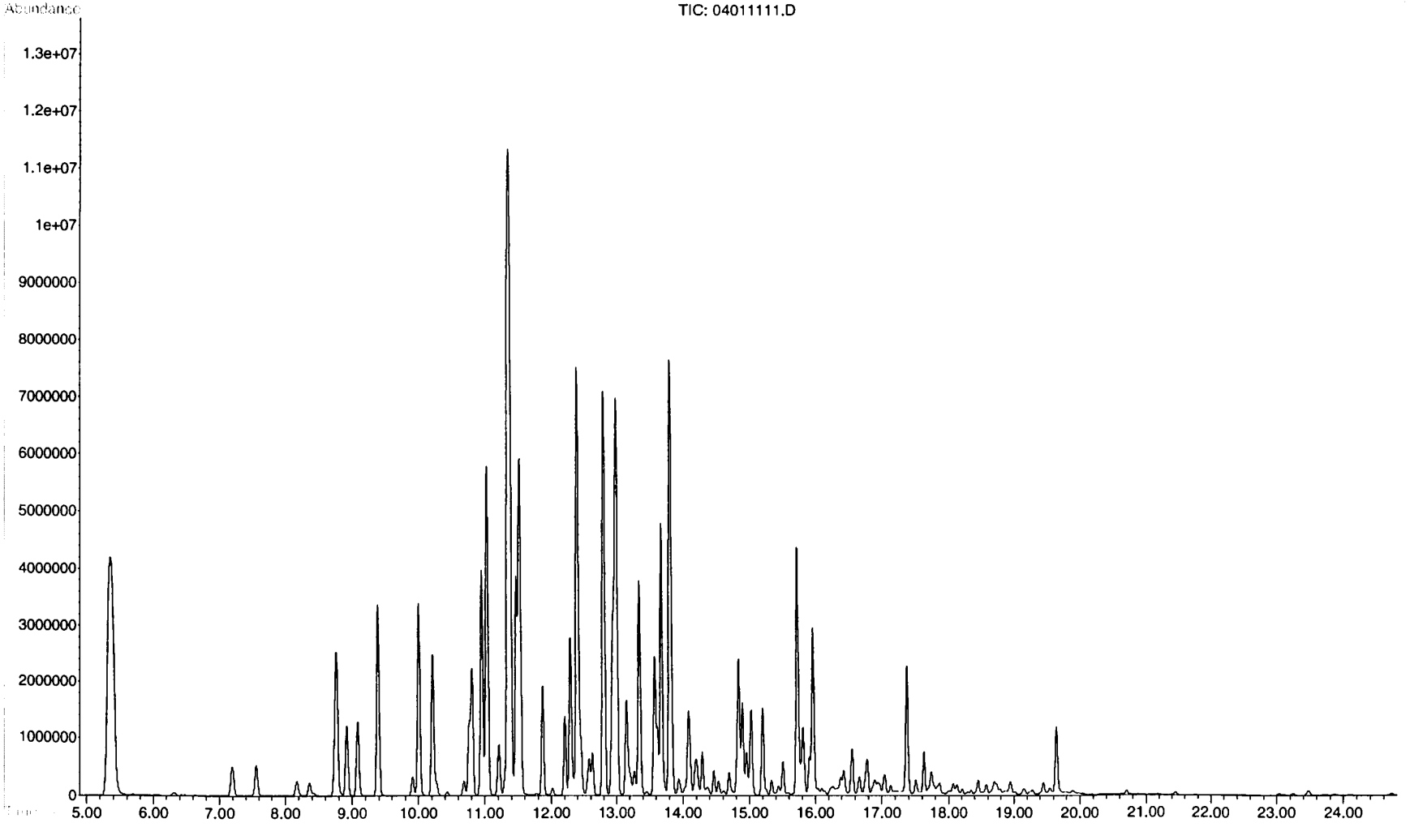
* = reported only if >MDL

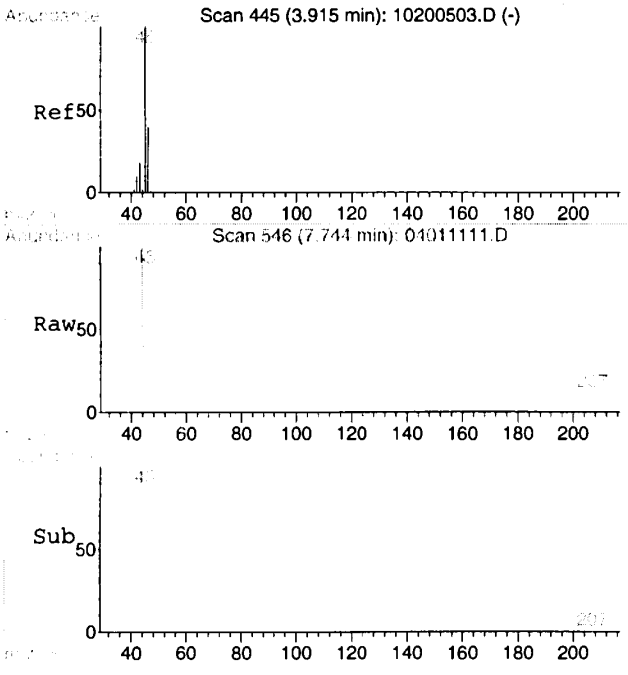
(#) = qualifier out of range (m) = manual integration
04011111.D 031611V1.M Thu Apr 14 11:54:34 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:07 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

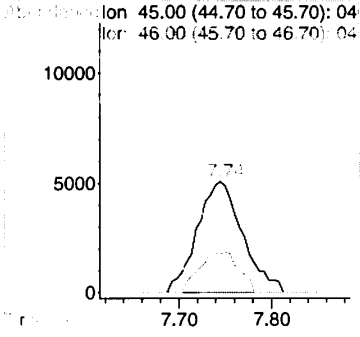


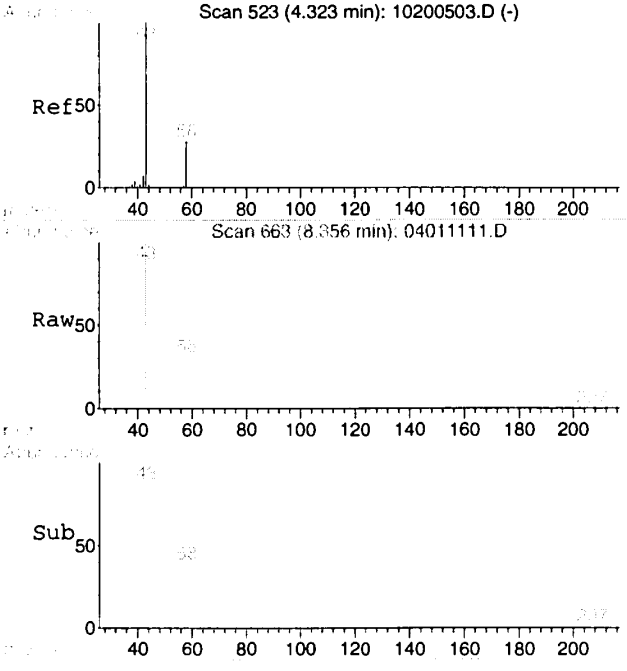


#11
Ethanol
Concen: 1.84 ppbv
RT: 7.74 min Scan# 546
Delta R.T. 0.01 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 45 Resp: 17280

Ion	Ratio	Lower	Upper
45	100		
46	31.7	30.2	45.4
43	0.0	15.8	23.6#

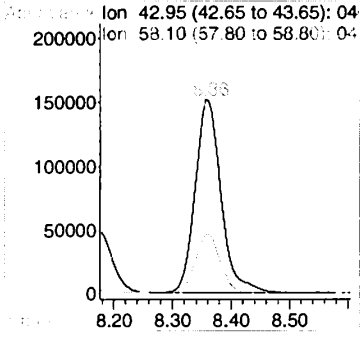


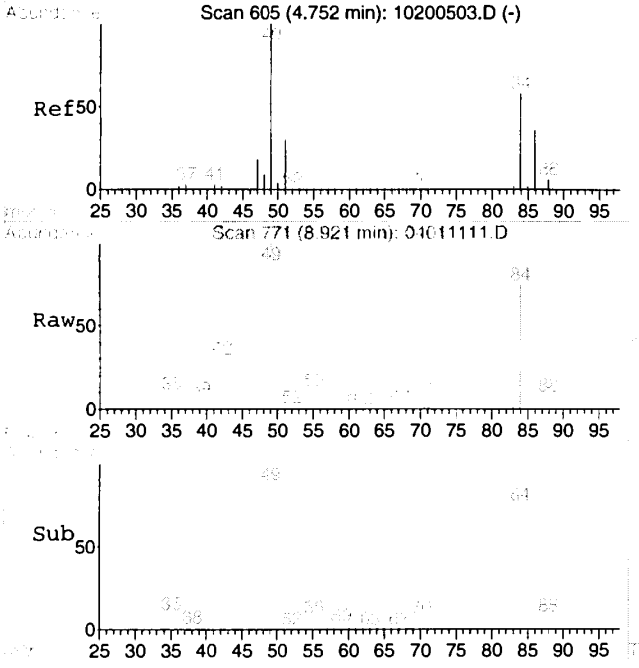


#14
Acetone
Concen: 6.74 ppbv
RT: 8.36 min Scan# 663
Delta R.T. -0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 43 Resp: 470435

Ion	Ratio	Lower	Upper
43	100		
58	30.1	22.0	33.0
39	4.1	6.5	9.7#

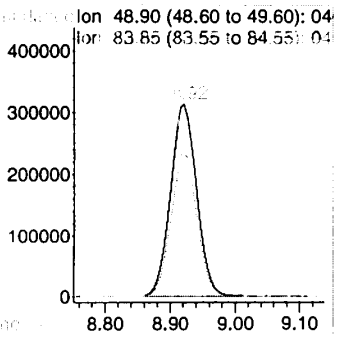


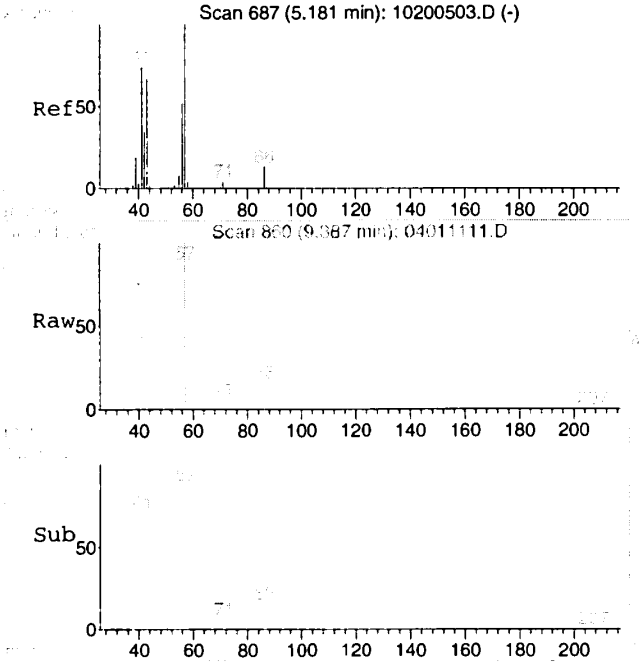


#17
Methylene chloride
Concen: 15.60 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 49 Resp: 889549

Ion	Ratio	Lower	Upper
49	100		
84	74.6	65.4	98.2
86	47.6	42.3	63.5

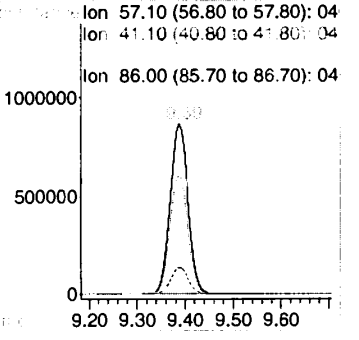


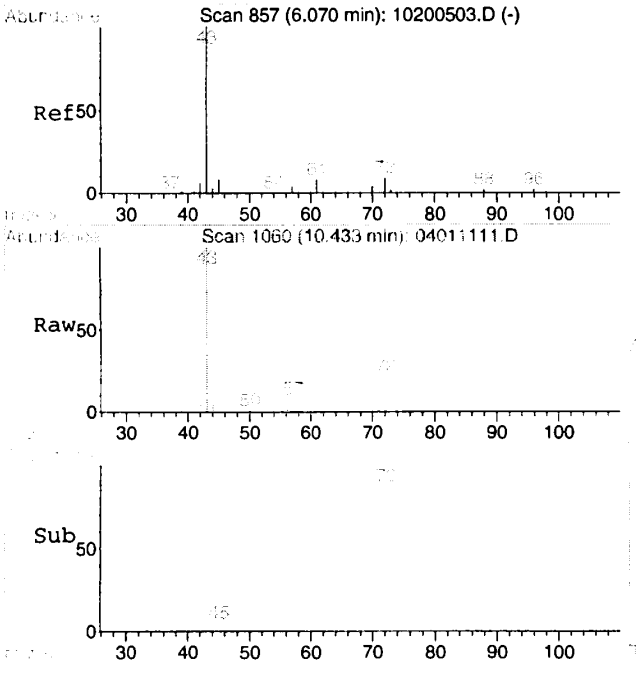


#20
n-Hexane
Concen: 27.30 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 57 Resp: 2257378

Ion	Ratio	Lower	Upper
57	100		
41	71.4	57.2	85.8
53	2.3	1.8	2.8
86	15.6	13.4	20.0

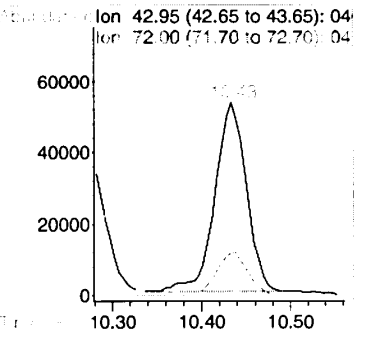


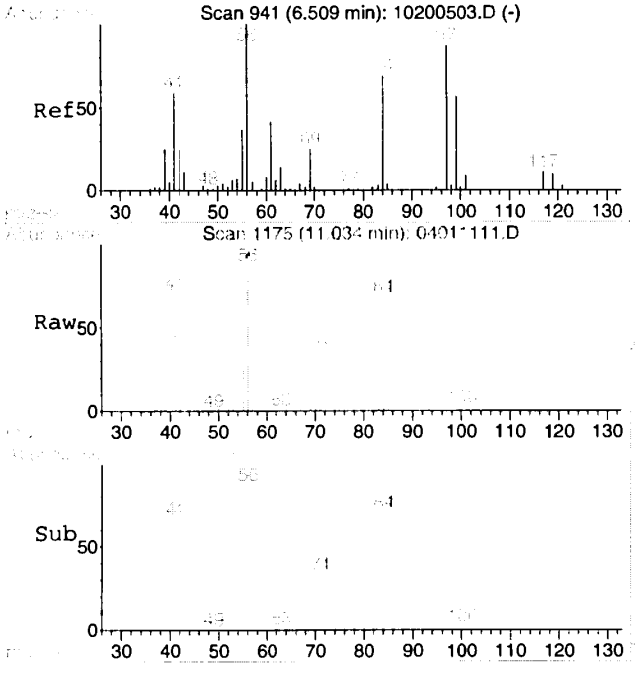


#24
2-Butanone
Concen: 1.80 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 43 Resp: 129572

Ion	Ratio	Lower	Upper
43	100		
72	22.4	23.4	35.2#
57	8.5	6.9	10.3

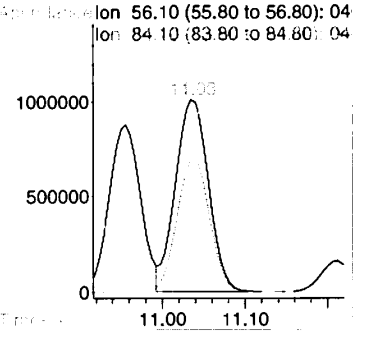


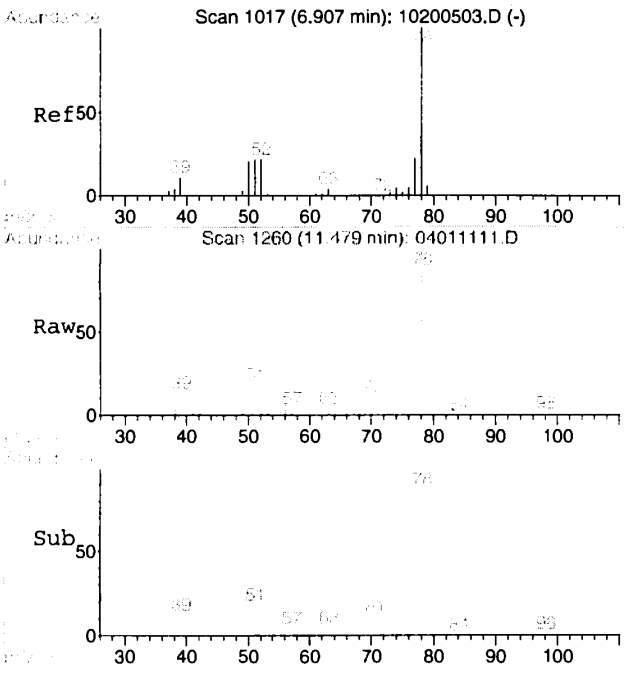


#29
Cyclohexane
Concen: 33.39 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 56 Resp: 2795625

Ion	Ratio	Lower	Upper
56	100		
84	68.7	72.4	108.6#
41	69.4	43.8	65.8#

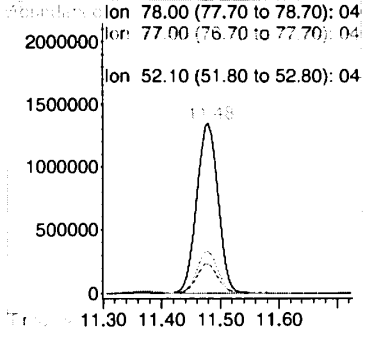


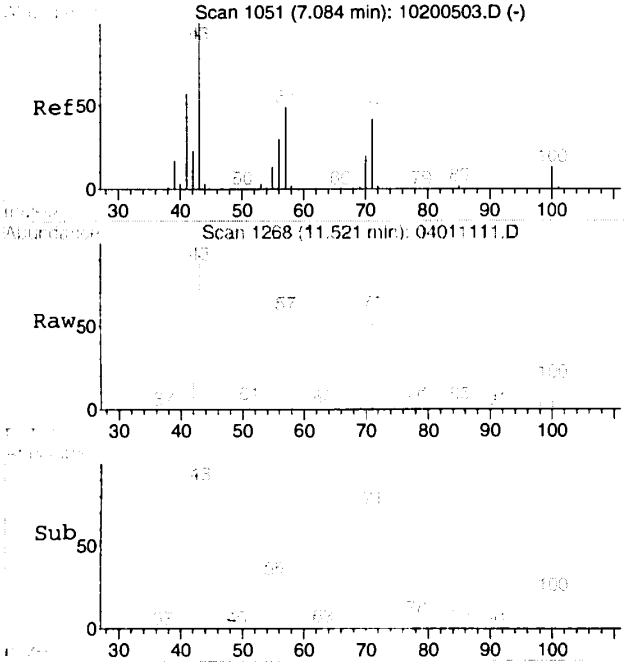


#31
Benzene
Concen: 24.69 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 78 Resp: 3455438

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	19.0	0.0	36.1
52	17.8	0.0	36.0

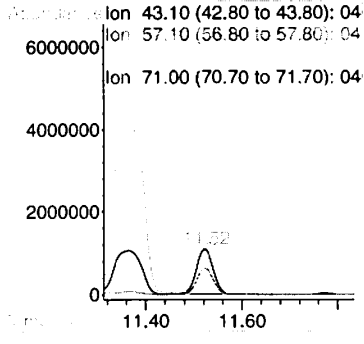


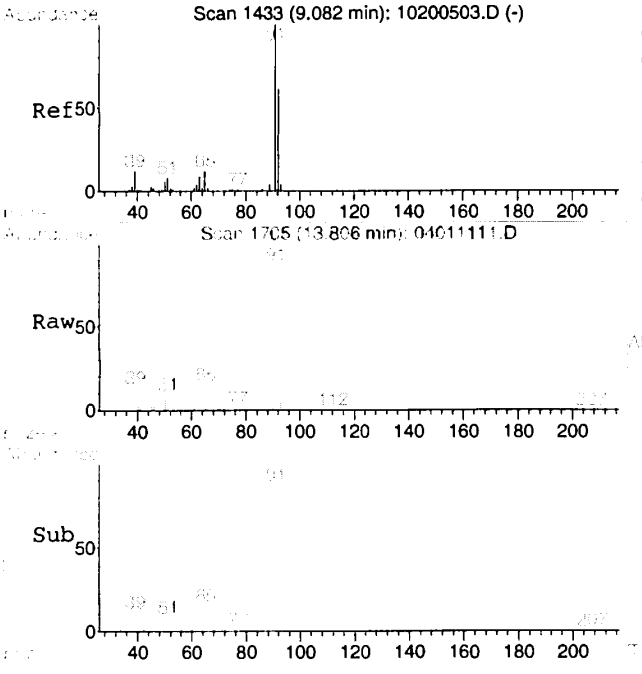


#34
Heptane
Concen: 28.93 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 43 Resp: 2772935

Ion	Ratio	Lower	Upper
43	100		
57	58.9	42.2	63.4
100	15.3	17.3	25.9#
71	56.8	48.3	72.5

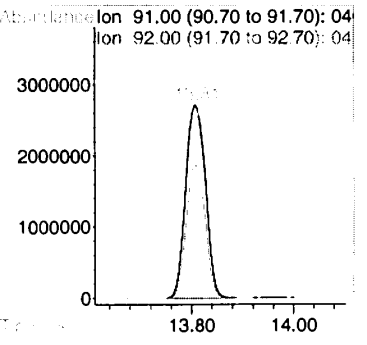


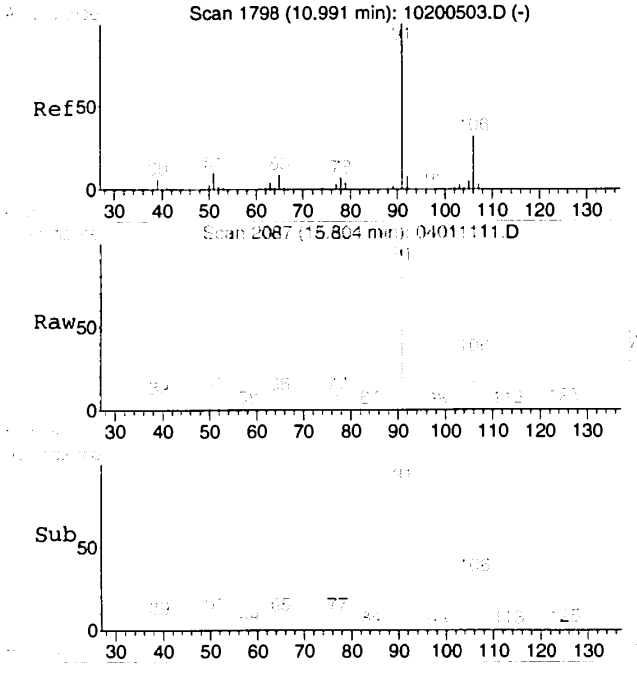


#41
Toluene
Concen: 49.64 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 91 Resp: 7425550

Ion	Ratio	Lower	Upper
91	100		
92	65.9	40.5	80.5
65	13.5	0.0	31.2

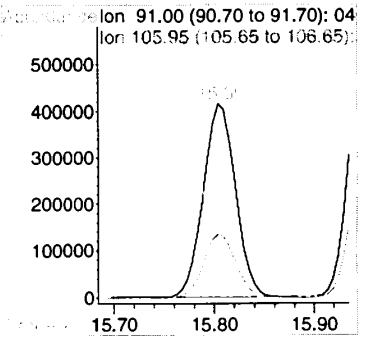


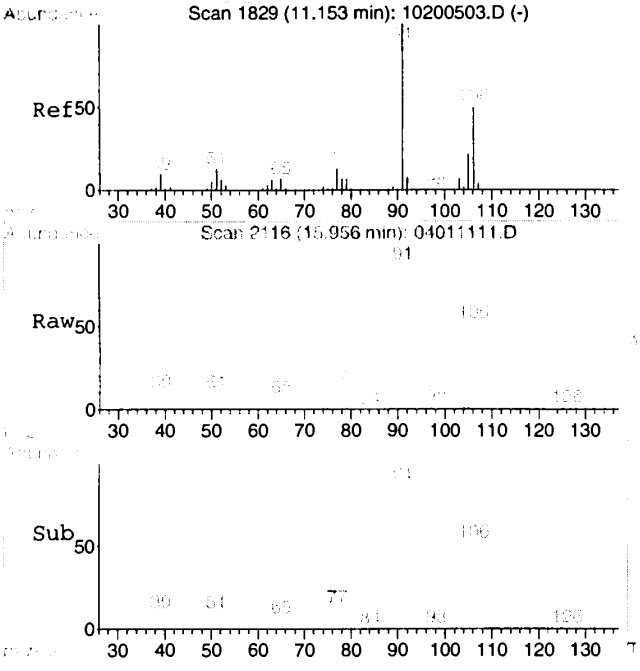


#50
Ethylbenzene
Concen: 4.85 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 91 Resp: 924842

Ion	Ratio	Lower	Upper
91	100		
106	32.4	14.9	54.9
51	10.6	0.0	33.1

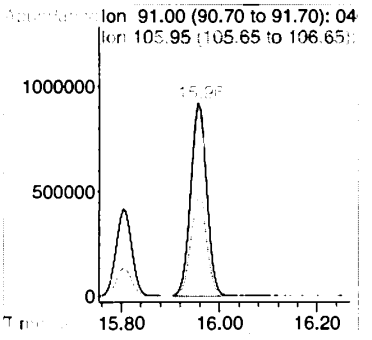


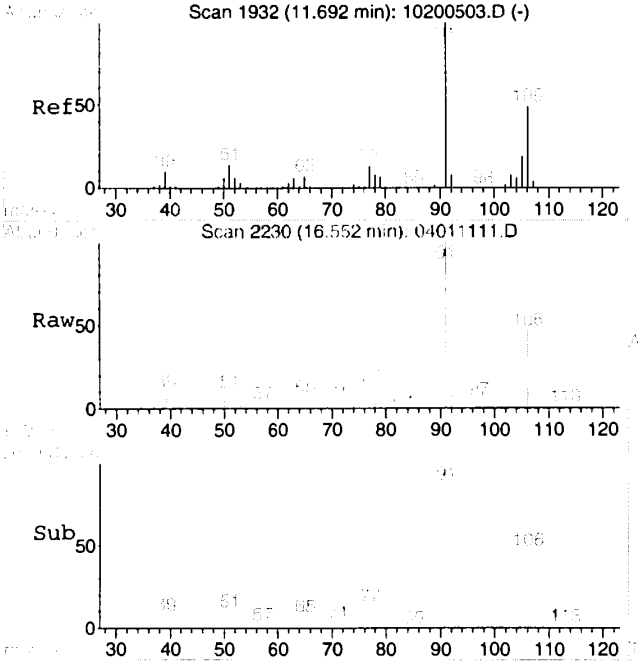


#51
m,p-Xylene
Concen: 14.40 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 91 Resp: 2127352

Ion	Ratio	Lower	Upper
91	100		
106	51.9	35.6	75.6
51	10.6	0.0	29.6

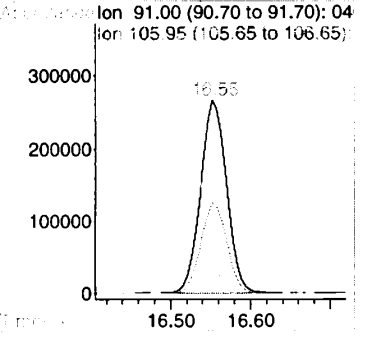


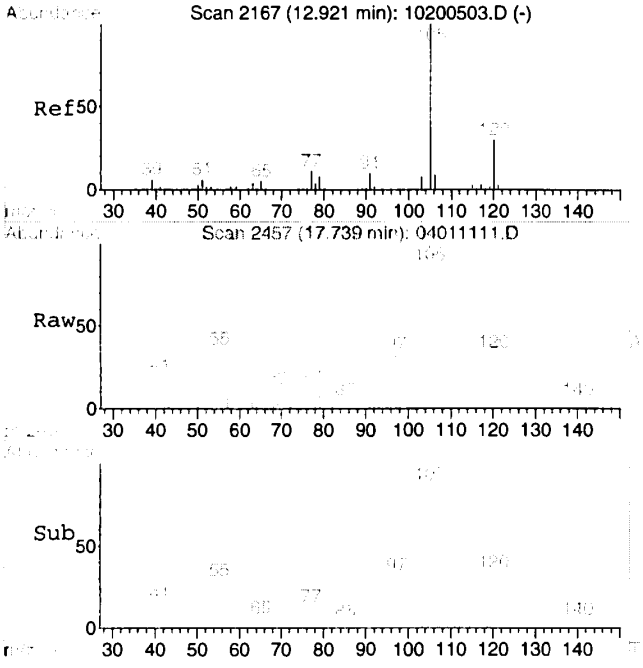


#52
o-Xylene
Concen: 4.22 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion: 91 Resp: 606696

Ion	Ratio	Lower	Upper
91	100		
106	46.5	41.0	61.6
51	11.0	19.7	29.5#

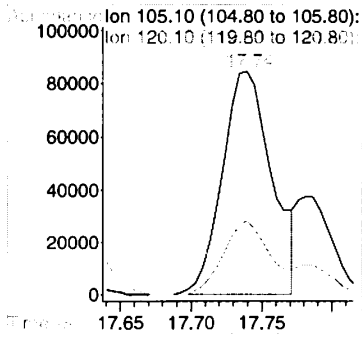


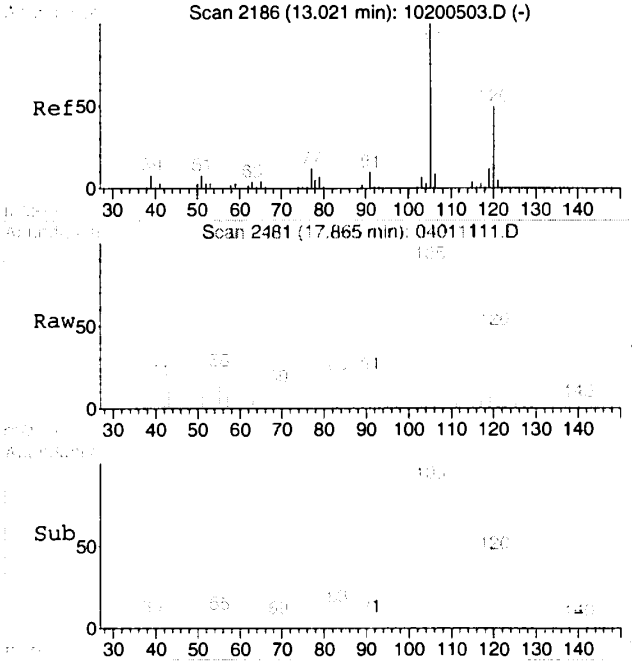


#57
4-Ethyltoluene
Concen: 1.20 ppbv
RT: 17.74 min Scan# 2457
Delta R.T. -0.04 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion:105 Resp: 206219

Ion	Ratio	Lower	Upper
105	100		
120	31.6	26.0	39.0

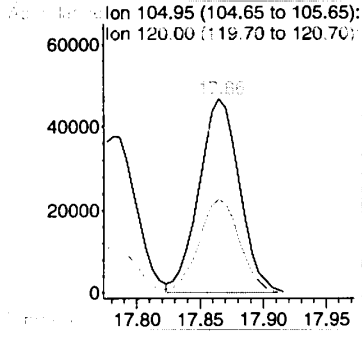


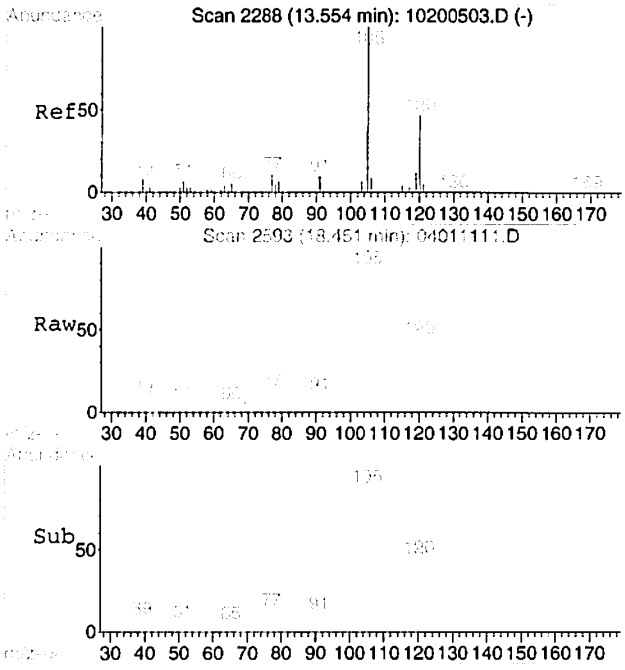


#58
1,3,5-Trimethylbenzene
Concen: 0.73 ppbv
RT: 17.86 min Scan# 2481
Delta R.T. 0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion:105 Resp: 104180

Ion	Ratio	Lower	Upper
105	100		
120	48.8	32.1	72.1
91	22.0	0.0	30.4

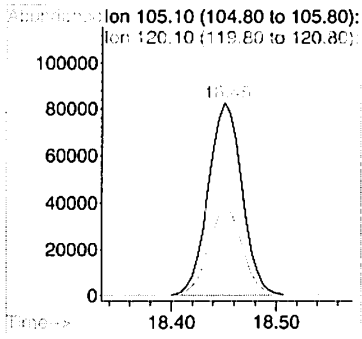




#59
1,2,4-Trimethylbenzene
Concen: 1.47 ppbv
RT: 18.45 min Scan# 2593
Delta R.T. 0.00 min
Lab File: 04011111.D
Acq: 1 Apr 2011 7:23 pm

Tgt Ion:105 Resp: 185989

Ion	Ratio	Lower	Upper
105	100		
120	45.8	38.9	58.3
91	11.4	8.2	12.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.354	59	89	138	rBV	4205602	27689278	59.22%	6.804%
2	7.185	424	439	460	rBV	515573	1761077	3.77%	0.433%
3	7.561	491	511	531	rBV2	536571	1681470	3.60%	0.413%
4	8.173	612	628	650	rVB	263559	855941	1.83%	0.210%
5	8.362	651	664	672	rBV	234188	709765	1.52%	0.174%
6	8.764	723	741	759	rBV2	2533797	8481336	18.14%	2.084%
7	8.921	759	771	786	rVV2	1238376	3463976	7.41%	0.851%
8	9.083	788	802	824	rVB	1303491	3664258	7.84%	0.900%
9	9.387	847	860	880	rBV	3375809	8802497	18.83%	2.163%
10	9.910	946	960	967	rBV2	343452	942034	2.01%	0.231%
11	10.004	967	978	1000	rVV	3400593	9205630	19.69%	2.262%
12	10.213	1004	1018	1047	rVV	2492648	7295212	15.60%	1.793%
13	10.689	1094	1109	1115	rBV	268842	740093	1.58%	0.182%
14	10.767	1115	1124	1126	rVV	1326472	2880045	6.16%	0.708%
15	10.804	1127	1131	1147	rVV	2246544	5298159	11.33%	1.302%
16	10.956	1147	1160	1167	rVV	3978323	10555609	22.58%	2.594%
17	11.034	1167	1175	1196	rVV2	5799320	15856773	33.91%	3.896%
18	11.212	1197	1209	1218	rVV	894125	2413254	5.16%	0.593%
19	11.364	1218	1238	1251	rVV	11356224	46757548	100.00%	11.490%
20	11.474	1251	1259	1263	rVV	3871781	9512605	20.34%	2.338%
21	11.526	1263	1269	1305	rVB2	5924339	15981783	34.18%	3.927%
22	11.866	1323	1334	1345	rBV	1930894	4475402	9.57%	1.100%
23	12.201	1387	1398	1406	rBV	1392913	3305586	7.07%	0.812%
24	12.289	1406	1415	1424	rVV	2704977	6776749	14.49%	1.665%
25	12.394	1425	1435	1457	rVB2	7491526	23009176	49.21%	5.654%
26	12.572	1457	1469	1474	rBV2	612938	1730250	3.70%	0.425%
27	12.624	1474	1479	1493	rVB	752361	1815193	3.88%	0.446%
28	12.797	1496	1512	1526	rBV	7105342	20020116	42.82%	4.920%
29	12.990	1526	1549	1567	rVB2	6978437	29004681	62.03%	7.127%
30	13.152	1568	1580	1596	rBV2	1664147	5334066	11.41%	1.311%
31	13.273	1597	1603	1608	rBV	246686	468114	1.00%	0.115%
32	13.346	1608	1617	1631	rVB	3765073	9672058	20.69%	2.377%
33	13.576	1649	1661	1667	rBV2	2430569	6491186	13.88%	1.595%
34	13.675	1673	1680	1694	rVB	4704774	10802060	23.10%	2.654%
35	13.806	1694	1705	1721	rVB	7628001	21441037	45.86%	5.269%
36	13.937	1721	1730	1740	rBV2	269861	738775	1.58%	0.182%
37	14.083	1740	1758	1770	rBV2	1451513	4548480	9.73%	1.118%
38	14.198	1770	1780	1790	rBV6	550022	1768820	3.78%	0.435%
39	14.287	1790	1797	1805	rVV	663478	1336525	2.86%	0.328%
40	14.460	1822	1830	1837	rBV	425348	941942	2.01%	0.231%
41	14.533	1837	1844	1852	rVV2	233237	562985	1.20%	0.138%
42	14.690	1865	1874	1887	rBV2	389318	1042331	2.23%	0.256%
43	14.831	1887	1901	1907	rVV	2386730	6421083	13.73%	1.578%

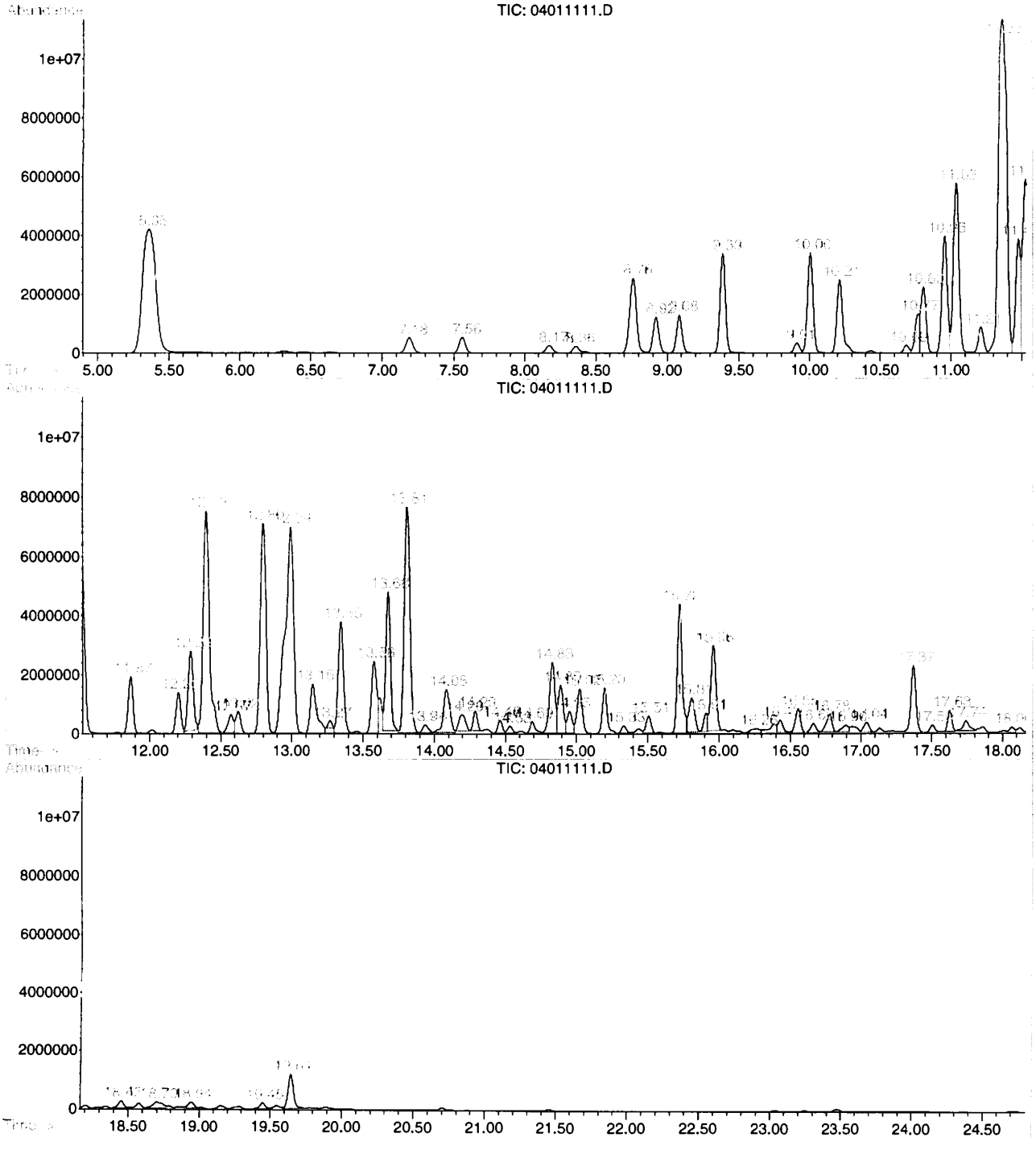
44	14.889	1907	1912	1919	rVV	1612729	3928895	8.40%	0.965%
45	14.952	1919	1924	1930	rVV2	729675	1787898	3.82%	0.439%
46	15.025	1930	1938	1956	rVB2	1505409	3962088	8.47%	0.974%
47	15.197	1958	1971	1989	rBV2	1547957	3870815	8.28%	0.951%
48	15.333	1989	1997	2005	rBV2	257346	589592	1.26%	0.145%
49	15.506	2022	2030	2040	rVB	568800	1335674	2.86%	0.328%
50	15.720	2058	2071	2081	rBV	4358867	10903199	23.32%	2.679%
51	15.809	2082	2088	2099	rVB2	1142768	3080667	6.59%	0.757%
52	15.909	2099	2107	2109	rBV	614572	1183578	2.53%	0.291%
53	15.956	2109	2116	2128	rVB	2846417	7221608	15.44%	1.775%
54	16.264	2159	2175	2181	rBV4	143936	652227	1.39%	0.160%
55	16.427	2202	2206	2218	rVB	403588	945099	2.02%	0.232%
56	16.552	2219	2230	2241	rVB	791961	1949644	4.17%	0.479%
57	16.662	2241	2251	2260	rBV3	303713	819170	1.75%	0.201%
58	16.777	2260	2273	2282	rVB5	590739	1781052	3.81%	0.438%
59	16.897	2282	2296	2300	rBV6	229164	749136	1.60%	0.184%
60	17.044	2315	2324	2333	rVB2	319883	890899	1.91%	0.219%
61	17.373	2375	2387	2401	rVB	2250426	5530771	11.83%	1.359%
62	17.504	2403	2412	2420	rBV2	244591	614397	1.31%	0.151%
63	17.629	2427	2436	2443	rBV	714170	1484546	3.17%	0.365%
64	17.739	2443	2457	2470	rVV2	334789	1083799	2.32%	0.266%
65	18.064	2513	2519	2525	rVV	184482	472810	1.01%	0.116%
66	18.451	2580	2593	2602	rBV	250254	679826	1.45%	0.167%
67	18.702	2625	2641	2654	rBV7	209970	998739	2.14%	0.245%
68	18.942	2679	2687	2696	rVB	195250	555668	1.19%	0.137%
69	19.450	2770	2784	2792	rBV2	210358	566694	1.21%	0.139%
70	19.643	2811	2821	2841	rVB	1155564	3057287	6.54%	0.751%

Sum of corrected areas: 406950736

04011111.D 031611V1.M Thu Apr 14 11:54:41 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011111.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 7:23 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-005B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 8
Quant File :031611V1.RES (RTE Integrator)



04011111.D 031611V1.M Thu Apr 14 11:54:41 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	120.18 ppbv	27689300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.18	7.64 ppbv	1761080	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	87
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	1-Butene $$ .alpha.-Butene $$ .alph	56	C4H8	000106-98-9	9

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Peak Number 3 Pentane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	7.30 ppbv	1681470	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	64
4	Butane, 2-methyl-	72	C5H12	000078-78-4	45
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	40

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	36.81 ppbv	8481340	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	15.90 ppbv	3664260	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	40
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

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Peak Number 6 Pentane, 2,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	39.95 ppbv	9205630	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, methyl- $$ Methy Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	31.66 ppbv	7295210	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	58

****

Peak Number 8 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	45.81 ppbv	10555600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 9 Cyclopentane, 1,1-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	10.47 ppbv	2413250	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	1-Hexene, 2-methyl- $$ 2-Methyl-1-h	98	C7H14	006094-02-6	32

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	130.60 ppbv	46757500	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
4	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	83
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78

****

Peak Number 11 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	9.23 ppbv	3305590	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	93
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
4	1-Pyrrolidinecarboxaldehyde $$ N-Fo	99	C5H9NO	003760-54-1	47
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	47

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	18.93 ppbv	6776750	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	50
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43
5	1-Octanol, 3,7-dimethyl-	158	C10H22O	000106-21-8	38

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	64.27 ppbv	23009200	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	55.92 ppbv	20020100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
4	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	74
5	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	72

****

Peak Number 15 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	81.01 ppbv	29004700	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	68
3	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
5	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	14.90 ppbv	5334070	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	58
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	43

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Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	27.01 ppbv	9672060	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

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Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	18.13 ppbv	6491190	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

Data File : C:\HPCHEM\1\DATA\040111\04011111.D Vial: 8
Acq On : 1 Apr 2011 7:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	30.17 ppbv	10802100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72

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Peak Number 20 Cyclohexane, ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	7.36 ppbv	6421080	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	80

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 7:23 pm
Data File: C:\HPCHEM\1\DATA\040111\04011111.D
Name: 1103389-005B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.35	120.2	ppbv	27689300	ISTD01	10.76	2880050	12.5
Butane, 2-methyl-	7.18	7.6	ppbv	1761080	ISTD01	10.76	2880050	12.5
Pentane	7.56	7.3	ppbv	1681470	ISTD01	10.76	2880050	12.5
Pentane, 2-methyl-	8.76	36.8	ppbv	8481340	ISTD01	10.76	2880050	12.5
Pentane, 3-methyl-	9.08	15.9	ppbv	3664260	ISTD01	10.76	2880050	12.5
Pentane, 2,4-dimethy	10.00	40.0	ppbv	9205630	ISTD01	10.76	2880050	12.5
Cyclopentane, methyl	10.21	31.7	ppbv	7295210	ISTD01	10.76	2880050	12.5
Pentane, 2,3-dimethy	10.96	45.8	ppbv	10555600	ISTD01	10.76	2880050	12.5
Cyclopentane, 1,1-di	11.21	10.5	ppbv	2413250	ISTD01	10.76	2880050	12.5
Hexane, 2,2-dimethyl	11.36	130.6	ppbv	46757500	ISTD02	11.87	4475400	12.5
Hexane, 2,5-dimethyl	12.20	9.2	ppbv	3305590	ISTD02	11.87	4475400	12.5
Hexane, 2,4-dimethyl	12.29	18.9	ppbv	6776750	ISTD02	11.87	4475400	12.5
Cyclohexane, methyl-	12.39	64.3	ppbv	23009200	ISTD02	11.87	4475400	12.5
Pentane, 2,3,4-trime	12.80	55.9	ppbv	20020100	ISTD02	11.87	4475400	12.5
Pentane, 2,3,3-trime	12.99	81.0	ppbv	29004700	ISTD02	11.87	4475400	12.5
Heptane, 3-methyl-	13.15	14.9	ppbv	5334070	ISTD02	11.87	4475400	12.5
Hexane, 2,2,5-trimet	13.35	27.0	ppbv	9672060	ISTD02	11.87	4475400	12.5
Cyclohexane, 1,3-dim	13.58	18.1	ppbv	6491190	ISTD02	11.87	4475400	12.5
Octane	13.68	30.2	ppbv	10802100	ISTD02	11.87	4475400	12.5
Cyclohexane, ethyl-	14.83	7.4	ppbv	6421080	ISTD03	15.72	10903200	12.5

04011111.D 031611V1.M Thu Apr 14 11:54:42 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:07 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	569802	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2019562	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1543671	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	920883	11.90	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.20%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	34758	0.61	ppbv		90
- 20) n-Hexane	9.40	57	1920552	23.08	ppbv		99
- 29) Cyclohexane	11.04	56	2154955	25.58	ppbv	#	82
31) Benzene	11.47	78	1169244	8.30	ppbv		95
34) Heptane	11.52	43	972536	9.97	ppbv	#	92
40) 4-Methyl-2-pentanone	13.35	58	36778	1.65	ppbv	#	1
41) Toluene	13.81	91	1662441	10.92	ppbv		99
51) m,p-Xylene	15.96	91	97416	0.70	ppbv		93

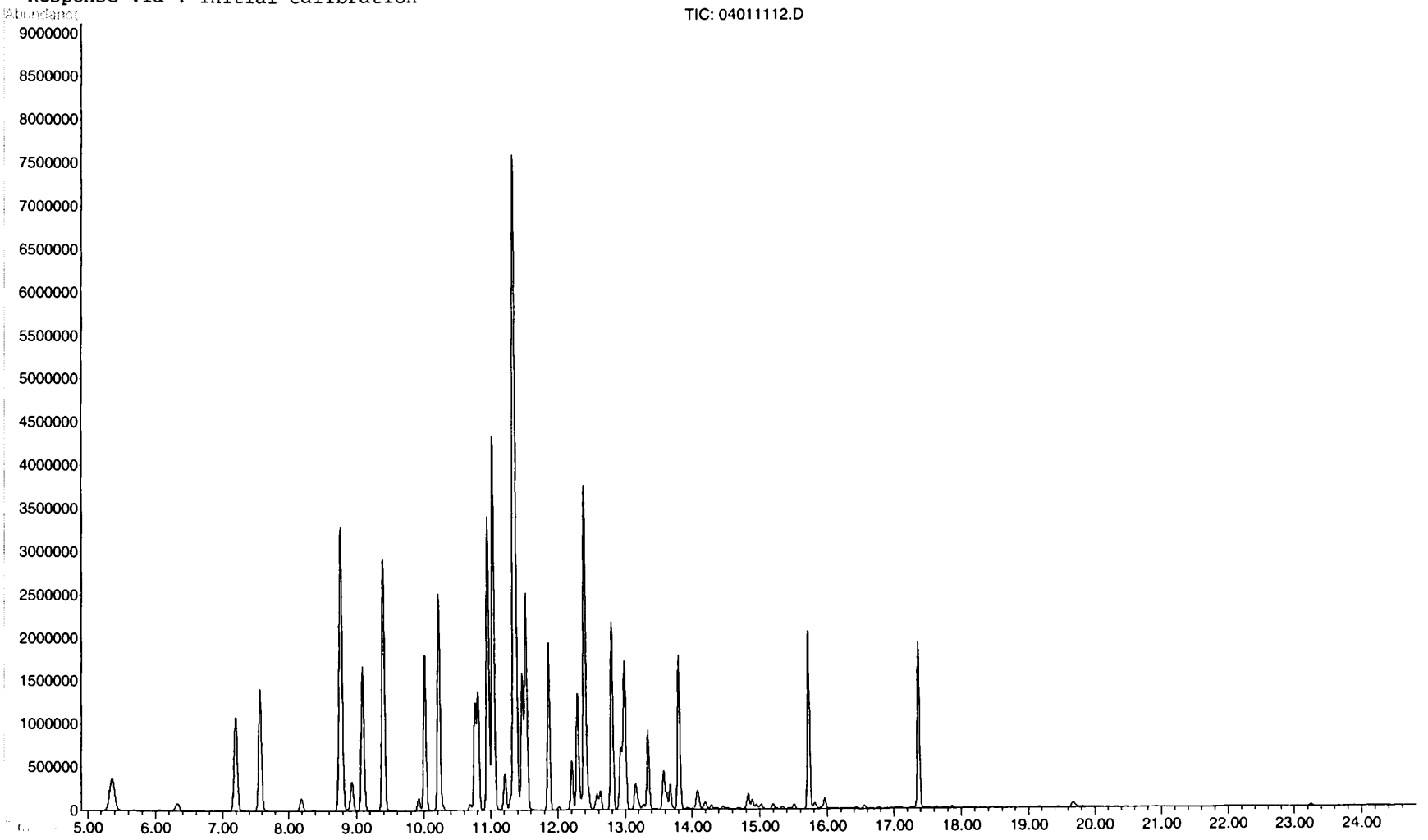
- = not reported
X = reported on 4/15/11

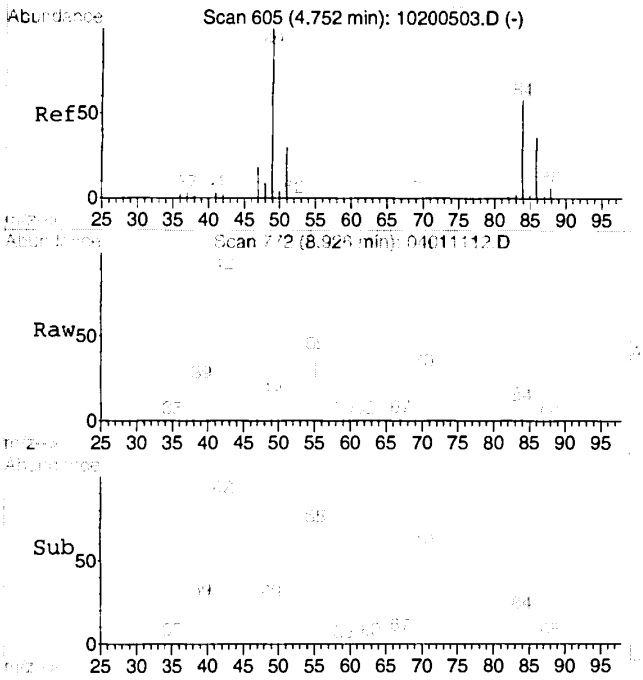
(#) = qualifier out of range (m) = manual integration
04011112.D 031611V1.M Thu Apr 14 11:54:47 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:07 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

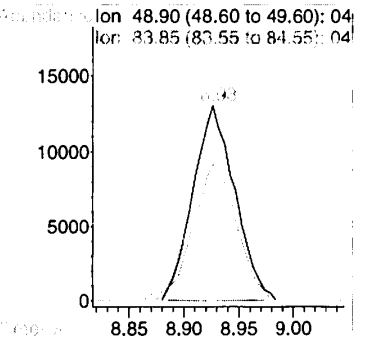


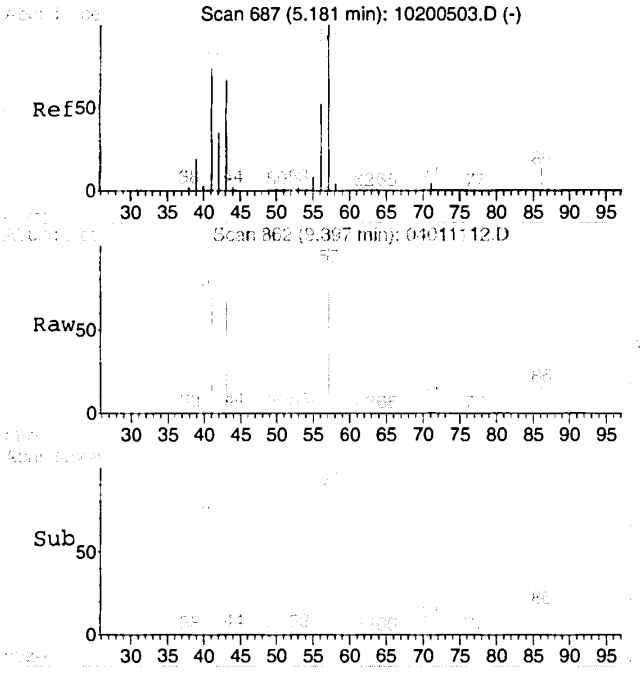


#17
Methylene chloride
Concen: 0.61 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 49 Resp: 34758

Ion	Ratio	Lower	Upper
49	100		
84	73.6	65.4	98.2
86	45.4	42.3	63.5

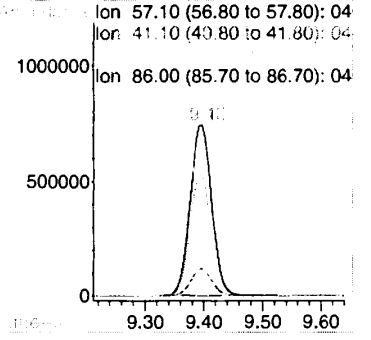


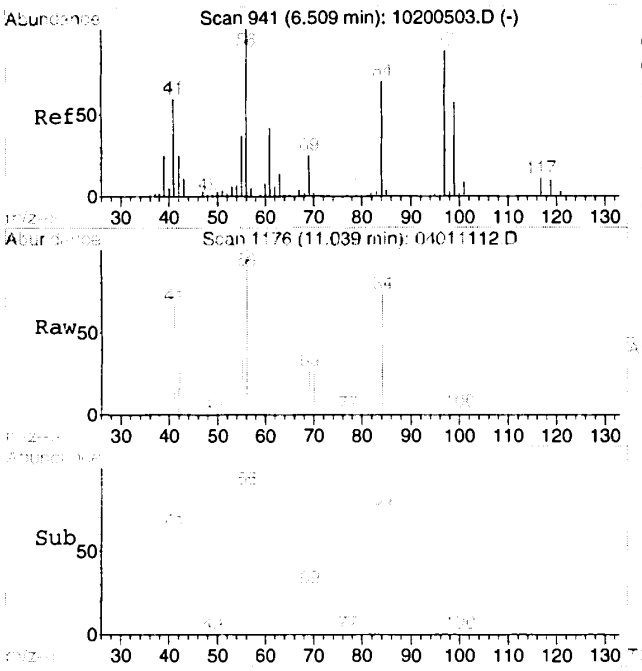


#20
n-Hexane
Concen: 23.08 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 57 Resp: 1920552

Ion	Ratio	Lower	Upper
57	100		
41	72.1	57.2	85.8
53	2.3	1.8	2.8
86	16.0	13.4	20.0

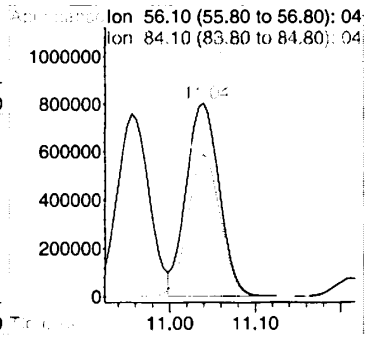


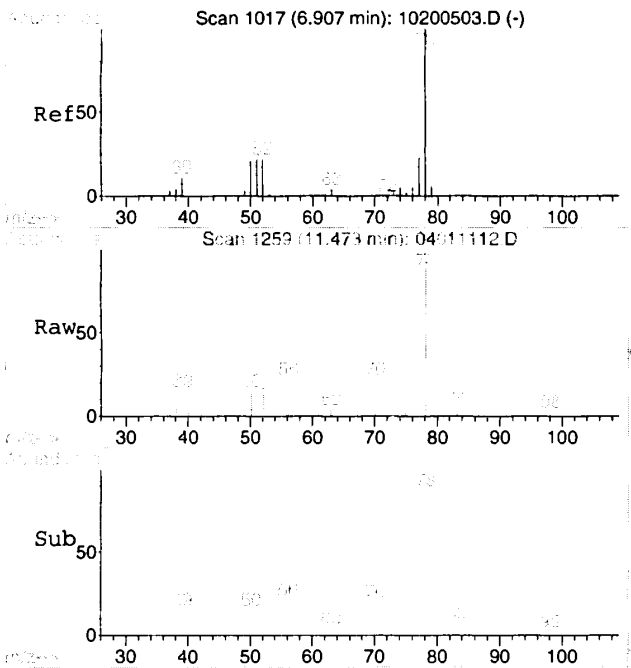


#29
Cyclohexane
Concen: 25.58 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 56 Resp: 2154955

Ion	Ratio	Lower	Upper
56	100		
84	72.5	72.4	108.6
41	66.9	43.8	65.8#

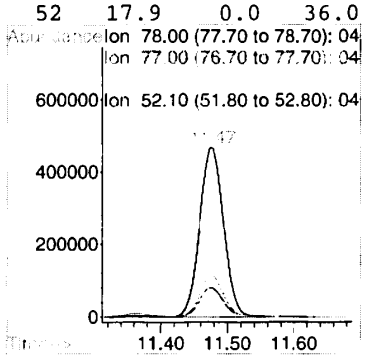


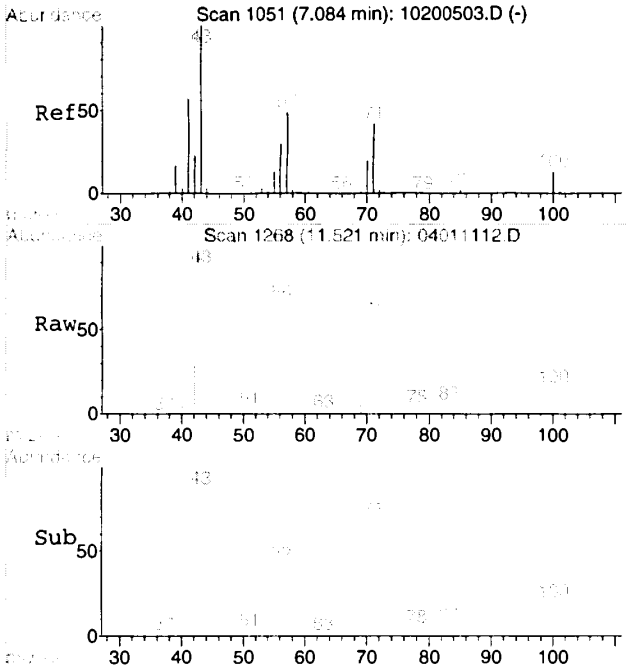


#31
Benzene
Concen: 8.30 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 78 Resp: 1169244

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	19.7	0.0	36.1
52	17.9	0.0	36.0

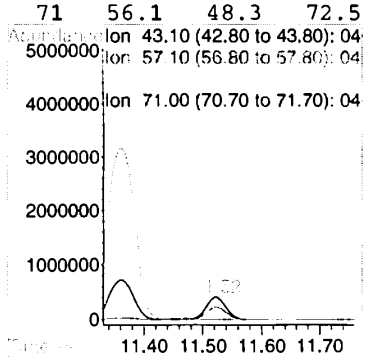


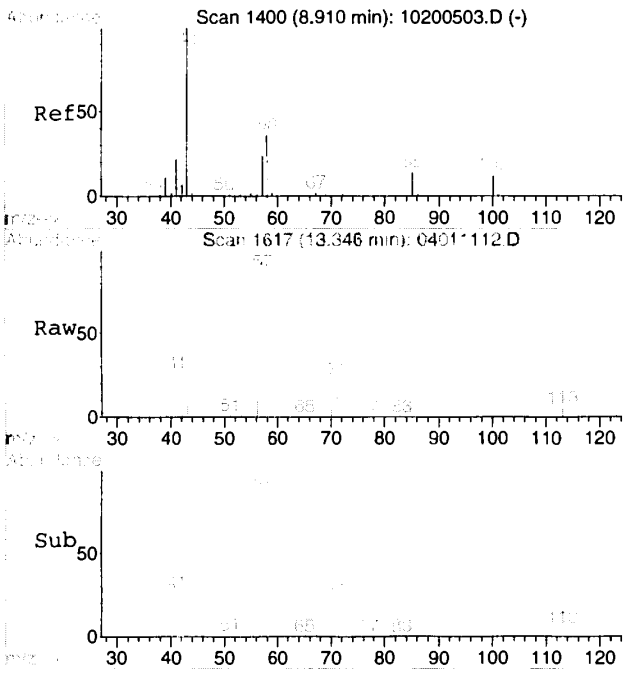


#34
Heptane
Concen: 9.97 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 43 Resp: 972536

Ion	Ratio	Lower	Upper
43	100		
57	58.7	42.2	63.4
100	14.9	17.3	25.9#
71	56.1	48.3	72.5

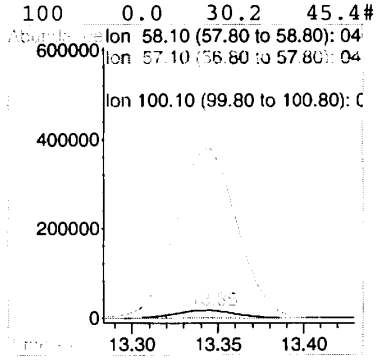


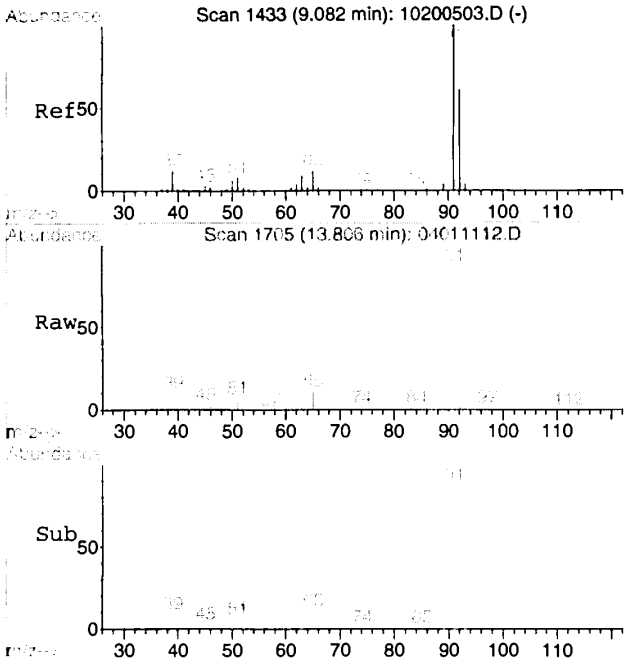


#40
4-Methyl-2-pentanone
Concen: 1.65 ppbv
RT: 13.35 min Scan# 1617
Delta R.T. -0.16 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 58 Resp: 36778

Ion	Ratio	Lower	Upper
58	100		
57	2280.7	50.6	76.0#
85	0.0	36.0	54.0#
100	0.0	30.2	45.4#

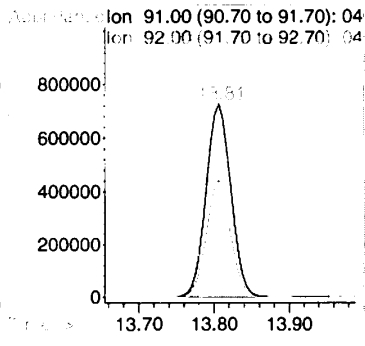


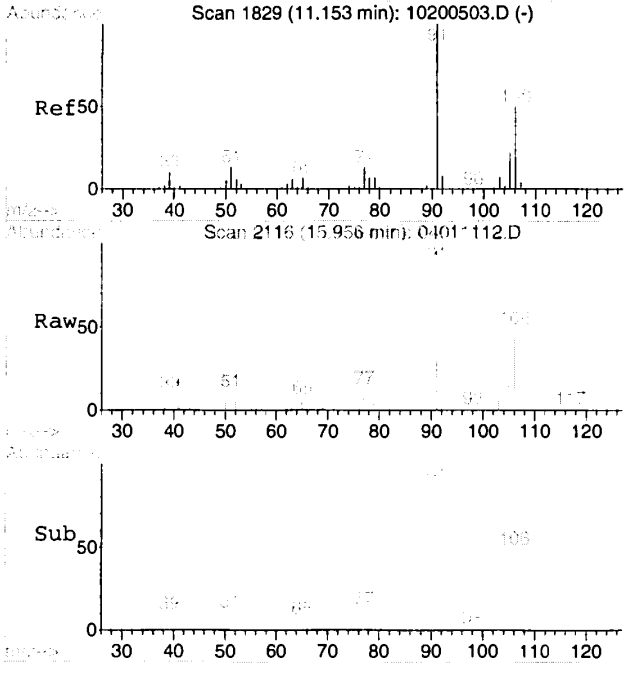


#41
Toluene
Concen: 10.92 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 91 Resp: 1662441

Ion	Ratio	Lower	Upper
91	100		
92	59.8	40.5	80.5
65	11.6	0.0	31.2

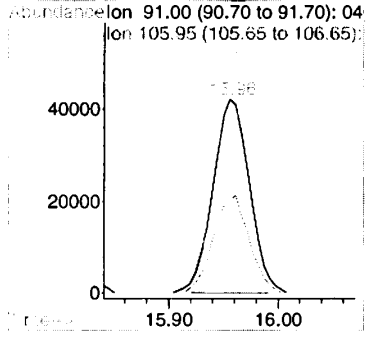




#51
m,p-Xylene
Concen: 0.70 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011112.D
Acq: 1 Apr 2011 8:05 pm

Tgt Ion: 91 Resp: 97416

Ion	Ratio	Lower	Upper
91	100		
106	49.6	35.6	75.6
51	10.2	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

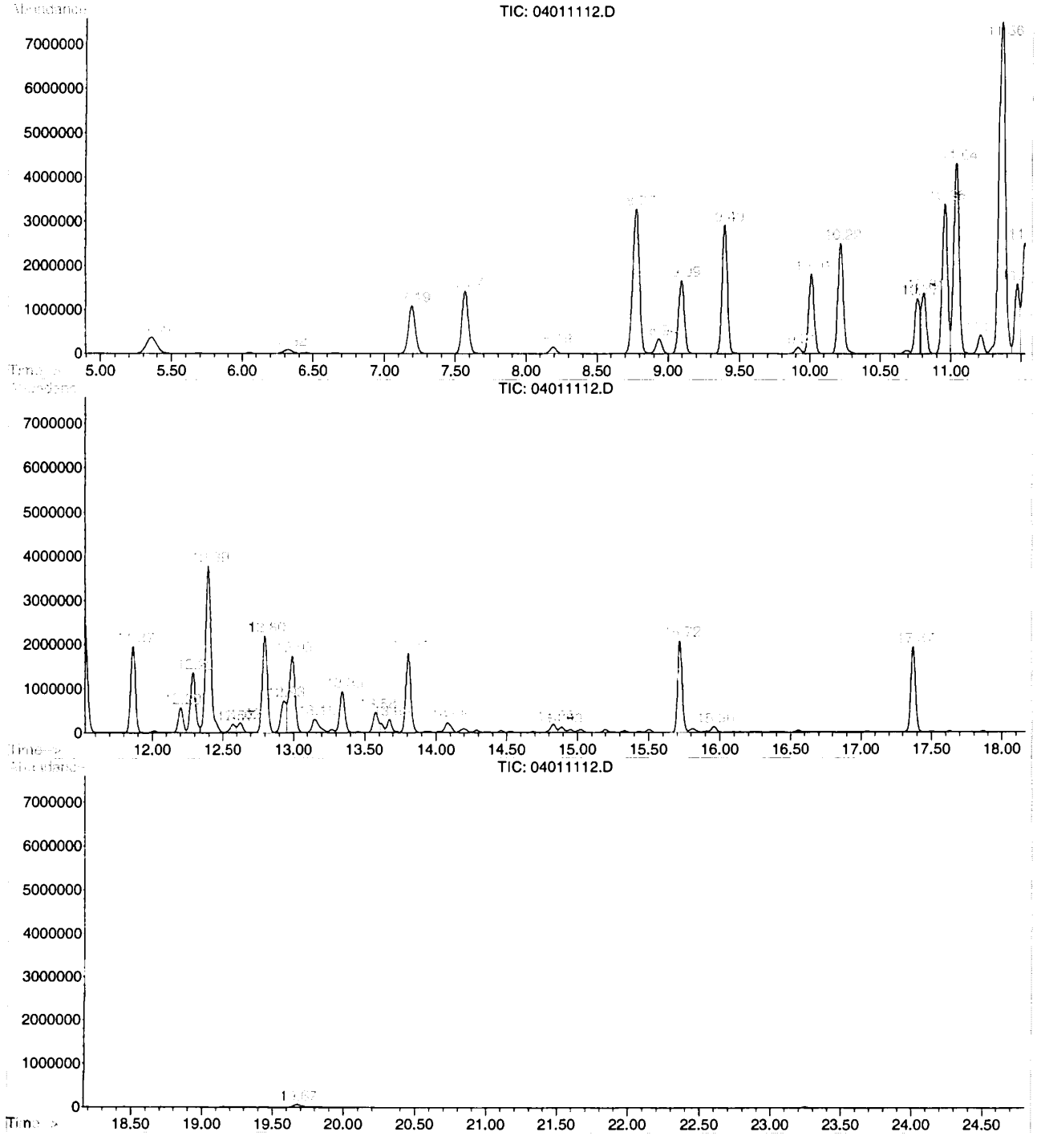
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	64	90	124	rBV	366174	1988150	8.06%	1.212%
2	6.322	256	274	289	rBV3	84553	359891	1.46%	0.219%
3	7.190	423	440	462	rBV	1085331	3592329	14.57%	2.189%
4	7.567	493	512	538	rBV	1421311	4489667	18.21%	2.736%
5	8.189	618	631	646	rBV	147898	467997	1.90%	0.285%
6	8.775	724	743	762	rBV2	3296385	10706548	43.42%	6.525%
7	8.937	762	774	789	rVV	336919	996134	4.04%	0.607%
8	9.094	789	804	825	rVV	1667859	4651070	18.86%	2.835%
9	9.397	846	862	884	rBV	2920002	7578192	30.73%	4.619%
10	9.915	948	961	968	rBV	144285	391199	1.59%	0.238%
11	10.009	968	979	1001	rVV	1816459	4826601	19.57%	2.942%
12	10.218	1004	1019	1043	rVV	2519114	6795854	27.56%	4.142%
13	10.767	1114	1124	1127	rVV	1255667	2995761	12.15%	1.826%
14	10.809	1128	1132	1147	rVV	1387694	3101333	12.58%	1.890%
15	10.956	1147	1160	1168	rVV	3418103	9053533	36.71%	5.518%
16	11.039	1168	1176	1197	rVV2	4342435	11643953	47.22%	7.097%
17	11.212	1197	1209	1218	rVV	429771	1161051	4.71%	0.708%
18	11.364	1218	1238	1251	rVV	7594345	24659225	100.00%	15.029%
19	11.473	1251	1259	1263	rVV2	1593102	3873176	15.71%	2.361%
20	11.526	1263	1269	1295	rVB3	2524183	6585663	26.71%	4.014%
21	11.866	1322	1334	1350	rBV	1955571	4548730	18.45%	2.772%
22	12.200	1385	1398	1406	rBV	572900	1373576	5.57%	0.837%
23	12.289	1406	1415	1424	rVV	1358413	3471029	14.08%	2.115%
24	12.394	1425	1435	1457	rVV	3778543	10229603	41.48%	6.235%
25	12.572	1457	1469	1474	rVV3	192635	553648	2.25%	0.337%
26	12.624	1474	1479	1492	rVB	229265	555248	2.25%	0.338%
27	12.797	1498	1512	1525	rBV	2196014	5604956	22.73%	3.416%
28	12.933	1525	1538	1542	rVV3	723096	2057239	8.34%	1.254%
29	12.990	1542	1549	1566	rVV	1738389	4877587	19.78%	2.973%
30	13.152	1569	1580	1596	rVV3	306769	1078123	4.37%	0.657%
31	13.346	1607	1617	1632	rVB	921854	2305838	9.35%	1.405%
32	13.576	1648	1661	1667	rBV2	458757	1218916	4.94%	0.743%
33	13.675	1674	1680	1694	rVB	287153	634903	2.57%	0.387%
34	13.806	1694	1705	1721	rVB	1802612	4403637	17.86%	2.684%
35	14.083	1749	1758	1770	rVB5	212532	646857	2.62%	0.394%
36	14.831	1888	1901	1907	rBV2	188757	512511	2.08%	0.312%
37	14.889	1907	1912	1919	rVV	122685	297454	1.21%	0.181%
38	15.720	2060	2071	2082	rBV	2081758	4818030	19.54%	2.936%
39	15.956	2109	2116	2129	rVB	125650	309096	1.25%	0.188%
40	17.373	2376	2387	2404	rVB	1936941	4381280	17.77%	2.670%
41	19.669	2812	2826	2848	rBV3	64862	283658	1.15%	0.173%

Sum of corrected areas: 164079246

04011112.D 031611V1.M Thu Apr 14 11:54:54 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011112.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 8:05 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-006B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 9
Quant File :031611V1.RES (RTE Integrator)



04011112.D 031611V1.M Thu Apr 14 11:54:54 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	8.30 ppbv	1988150	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	14.99 ppbv	3592330	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	87
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	Methane, isocyanato-	57	C2H3NO	000624-83-9	9
5	1-Butene	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	18.73 ppbv	4489670	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	1.95 ppbv	467997	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
5	Pentane, 3-bromo-	150	C5H11Br	001809-10-5	42

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	44.67 ppbv	10706500	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	70
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	19.41 ppbv	4651070	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	20.14 ppbv	4826600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 8 Cyclopentane, methyl- $$ Methy Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	28.36 ppbv	6795850	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	37.78 ppbv	9053530	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	4.84 ppbv	1161050	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	5-Methyl-2-hexene,c&t $$ 2-Hexene,	98	C7H14	003404-62-4	32

****

Peak Number 11 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	67.76 ppbv	24659200	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

****

Peak Number 12 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	3.77 ppbv	1373580	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	50
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Ether, heptyl hexyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	9.54 ppbv	3471030	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether, heptyl hexyl	200	C13H28O	007289-40-9	72
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	45

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	28.11 ppbv	10229600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	15.40 ppbv	5604960	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	78
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,3-dimethyl- $$ 2,3-D Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	5.65 ppbv	2057240	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	83
2	Pyrrolidine	71	C4H9N	000123-75-1	80
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	56
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	56

****

Peak Number 17 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	13.40 ppbv	4877590	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	64
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	53
3	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	45
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
5	Hexanoic acid, 1,1-dimethylpropyl e	186	C11H22O2	116423-69-9	40

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.96 ppbv	1078120	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	72
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50

Data File : C:\HPCHEM\1\DATA\040111\04011112.D Vial: 9
Acq On : 1 Apr 2011 8:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.35 ppbv	1218920	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 20 Heptane, 2,4-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	1.74 ppbv	634903	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
5	Octane	114	C8H18	000111-65-9	81

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 8:05 pm
Data File: C:\HPCHEM\1\DATA\040111\04011112.D
Name: 1103389-006B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	8.3	ppbv	1988150	ISTD01	10.77	2995760	12.5
Butane, 2-methyl-	7.19	15.0	ppbv	3592330	ISTD01	10.77	2995760	12.5
Pentane	7.57	18.7	ppbv	4489670	ISTD01	10.77	2995760	12.5
Butane, 2,2-dimethyl	8.19	2.0	ppbv	467997	ISTD01	10.77	2995760	12.5
Pentane, 2-methyl-	8.77	44.7	ppbv	10706500	ISTD01	10.77	2995760	12.5
Pentane, 3-methyl-	9.09	19.4	ppbv	4651070	ISTD01	10.77	2995760	12.5
Pentane, 2,4-dimethy	10.01	20.1	ppbv	4826600	ISTD01	10.77	2995760	12.5
Cyclopentane, methyl	10.22	28.4	ppbv	6795850	ISTD01	10.77	2995760	12.5
Pentane, 2,3-dimethy	10.96	37.8	ppbv	9053530	ISTD01	10.77	2995760	12.5
Cyclopentane, 1,1-di	11.21	4.8	ppbv	1161050	ISTD01	10.77	2995760	12.5
Butane, 2,2,3,3-tetr	11.36	67.8	ppbv	24659200	ISTD02	11.87	4548730	12.5
Hexane, 2,5-dimethyl	12.20	3.8	ppbv	1373580	ISTD02	11.87	4548730	12.5
Ether, heptyl hexyl	12.29	9.5	ppbv	3471030	ISTD02	11.87	4548730	12.5
Cyclohexane, methyl-	12.39	28.1	ppbv	10229600	ISTD02	11.87	4548730	12.5
Pentane, 2,3,4-trime	12.80	15.4	ppbv	5604960	ISTD02	11.87	4548730	12.5
Hexane, 2,3-dimethyl	12.93	5.7	ppbv	2057240	ISTD02	11.87	4548730	12.5
Pentane, 2,3,3-trime	12.99	13.4	ppbv	4877590	ISTD02	11.87	4548730	12.5
Heptane, 3-methyl-	13.15	3.0	ppbv	1078120	ISTD02	11.87	4548730	12.5
Cyclohexane, 1,3-dim	13.58	3.3	ppbv	1218920	ISTD02	11.87	4548730	12.5
Heptane, 2,4-dimethy	13.68	1.7	ppbv	634903	ISTD02	11.87	4548730	12.5

04011112.D 031611V1.M Thu Apr 14 11:54:55 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:08 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	581695	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2102677	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1630012	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	979311	11.99	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.92%				
Target Compounds							Qvalue
2) Propylene	5.68	41	27867	0.64	ppbv		89
17) Methylene chloride	8.93	49	53071	0.91	ppbv		92
-20) n-Hexane	9.40	57	2064769	24.31	ppbv		99
-29) Cyclohexane	11.04	56	2002025	23.28	ppbv	#	82
31) Benzene	11.48	78	1655273	11.51	ppbv		97
34) Heptane	11.52	43	1013992	9.99	ppbv	#	93
41) Toluene	13.81	91	2283180	14.41	ppbv		100
51) m,p-Xylene	15.96	91	170733	1.16	ppbv		93

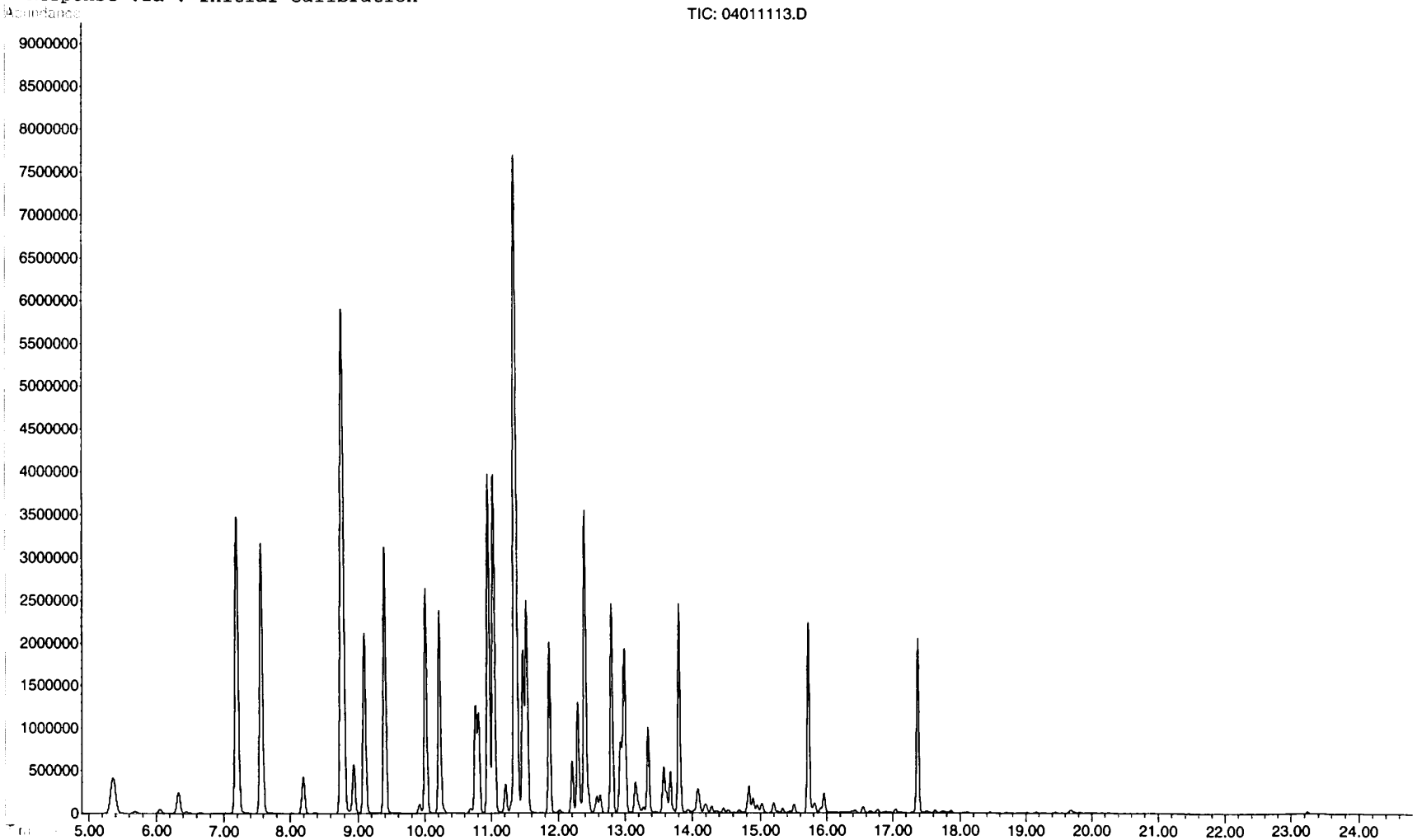
λ = reported only ch 4/15/11

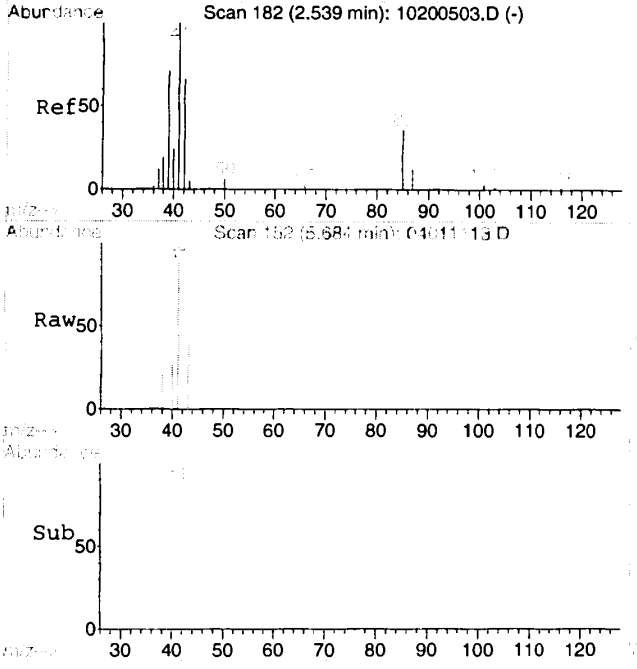
(#) = qualifier out of range (m) = manual integration
04011113.D 031611V1.M Thu Apr 14 11:55:01 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:08 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

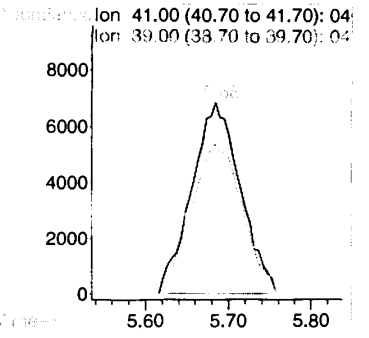


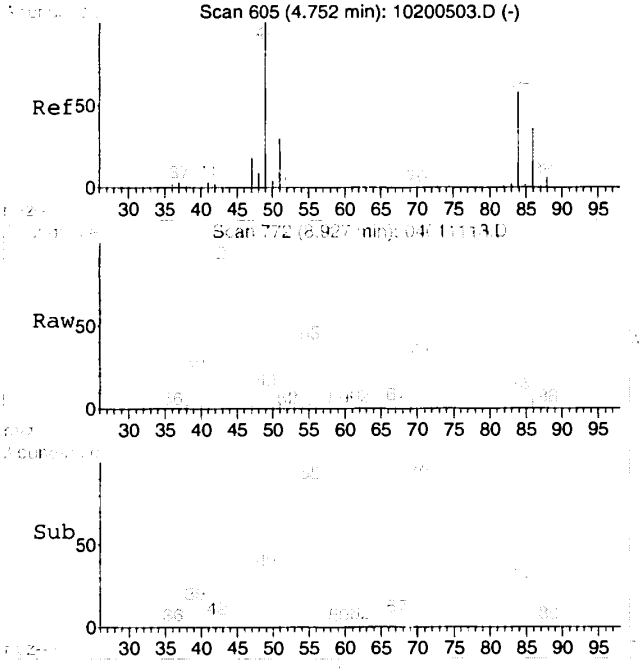


#2
Propylene
Concen: 0.64 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 41 Resp: 27867

Ion	Ratio	Lower	Upper
41	100		
39	82.7	57.6	86.4
42	59.6	54.0	81.0

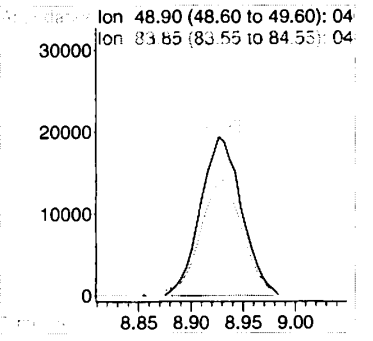


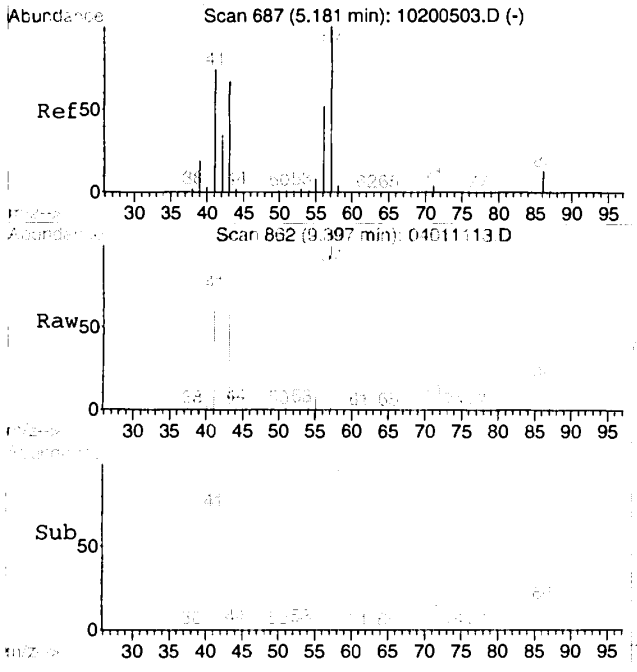


#17
Methylene chloride
Concen: 0.91 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 49 Resp: 53071

Ion	Ratio	Lower	Upper
49	100		
84	76.1	65.4	98.2
86	46.1	42.3	63.5

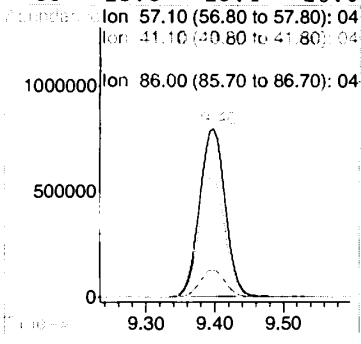


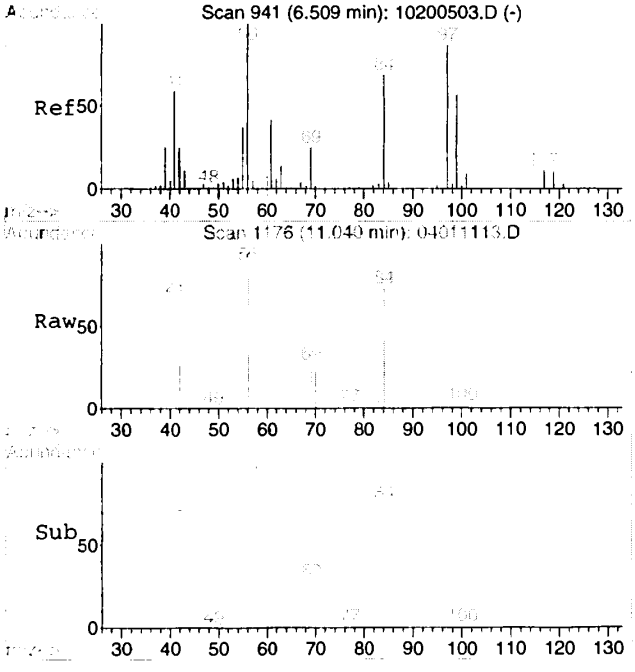


#20
n-Hexane
Concen: 24.31 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 57 Resp: 2064769

Ion	Ratio	Lower	Upper
57	100		
41	71.8	57.2	85.8
53	2.3	1.8	2.8
86	15.8	13.4	20.0

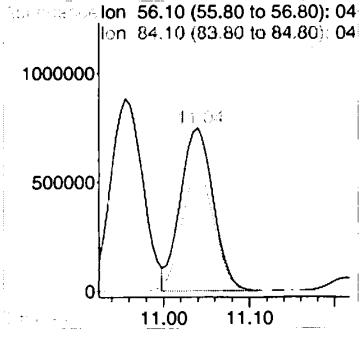


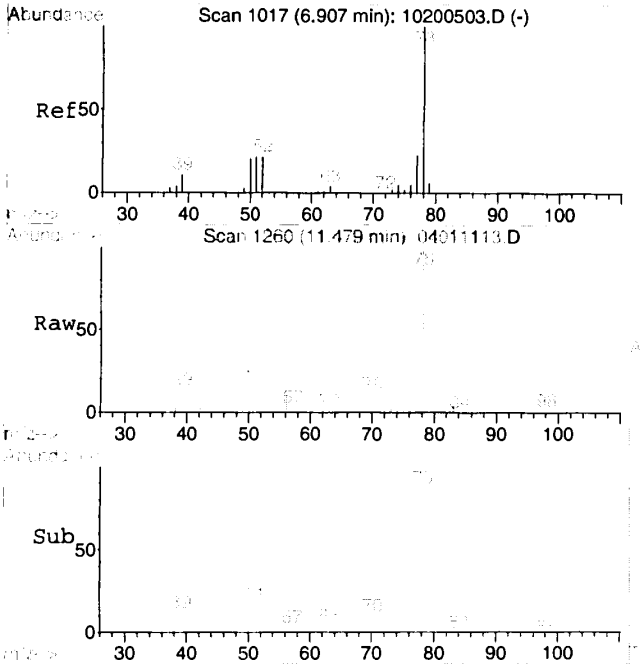


#29
Cyclohexane
Concen: 23.28 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 56 Resp: 2002025

Ion	Ratio	Lower	Upper
56	100		
84	72.8	72.4	108.6
41	66.3	43.8	65.8#

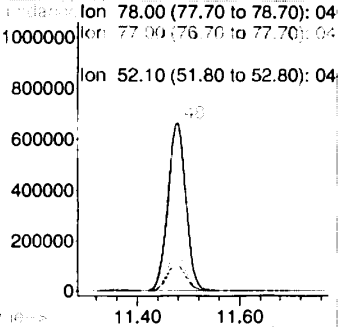


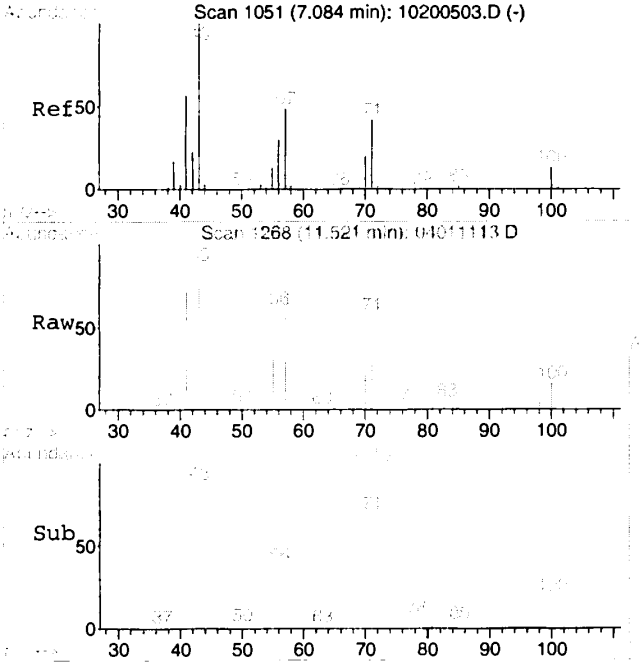


#31
Benzene
Concen: 11.51 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 78 Resp: 1655273

Ion	Ratio	Lower	Upper
78	100		
77	24.2	3.7	43.7
51	18.7	0.0	36.1
52	17.3	0.0	36.0

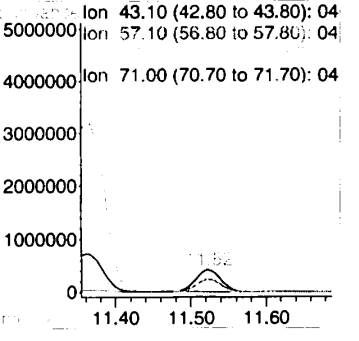


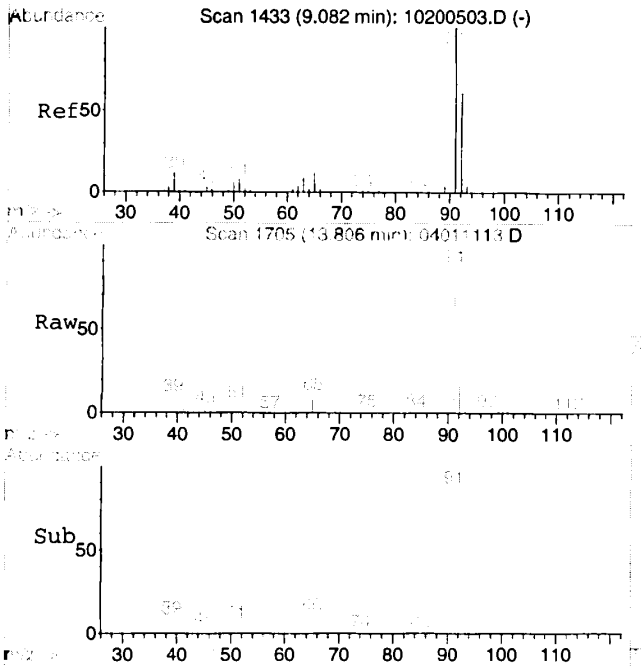


#34
Heptane
Concen: 9.99 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 43 Resp: 1013992

Ion	Ratio	Lower	Upper
43	100		
57	58.2	42.2	63.4
100	15.4	17.3	25.9#
71	56.5	48.3	72.5

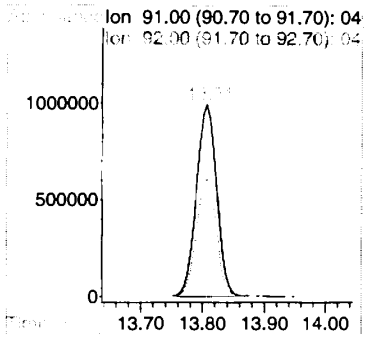


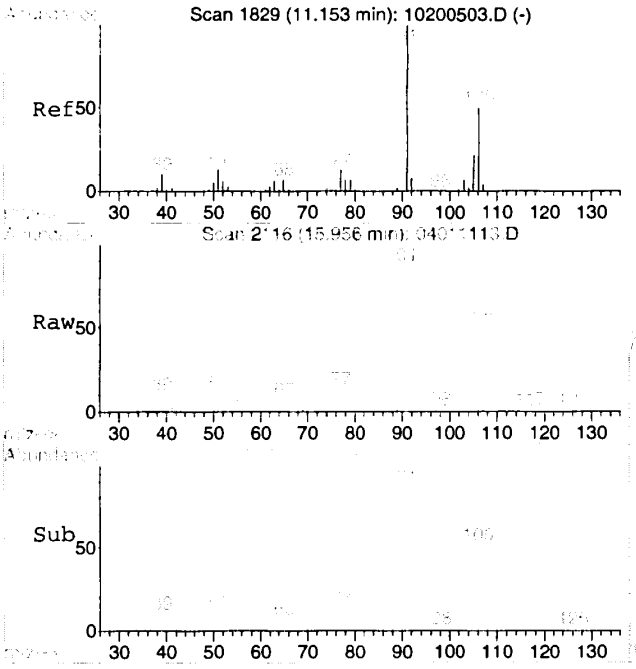


#41
Toluene
Concen: 14.41 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 91 Resp: 2283180

Ion	Ratio	Lower	Upper
91	100		
92	60.5	40.5	80.5
65	11.6	0.0	31.2

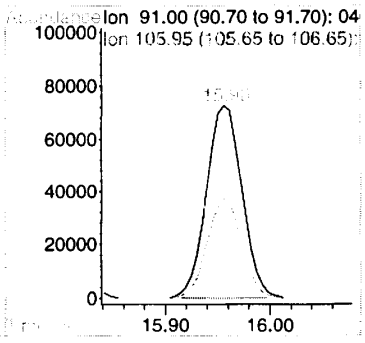




#51
m,p-Xylene
Concen: 1.16 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011113.D
Acq: 1 Apr 2011 8:45 pm

Tgt Ion: 91 Resp: 170733

Ion	Ratio	Lower	Upper
91	100		
106	49.6	35.6	75.6
51	10.2	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.360	63	90	119	rBV	416762	2258608	9.09%	1.115%
2	6.332	256	276	290	rBV3	250049	962206	3.87%	0.475%
3	7.190	421	440	470	rBV	3485231	11898217	47.86%	5.872%
4	7.572	494	513	541	rBV	3179246	10209846	41.07%	5.038%
5	8.194	616	632	652	rBV	435698	1386485	5.58%	0.684%
6	8.770	725	742	762	rBV3	5922100	21024218	84.58%	10.375%
7	8.937	762	774	789	rVV	575980	1725398	6.94%	0.851%
8	9.094	790	804	830	rVB	2124069	5955810	23.96%	2.939%
9	9.397	849	862	883	rVB	3130600	8110252	32.63%	4.002%
10	9.915	949	961	968	rBV2	112014	305900	1.23%	0.151%
11	10.009	968	979	998	rVB	2646008	7071834	28.45%	3.490%
12	10.218	1005	1019	1045	rBV	2390733	6477063	26.06%	3.196%
13	10.768	1114	1124	1128	rVV	1272167	3288533	13.23%	1.623%
14	10.809	1129	1132	1147	rVV	1185578	2364521	9.51%	1.167%
15	10.956	1147	1160	1168	rVV	3982848	10571028	42.52%	5.217%
16	11.040	1168	1176	1197	rVV2	3975994	10619221	42.72%	5.240%
17	11.212	1197	1209	1218	rVV	342660	917971	3.69%	0.453%
18	11.364	1218	1238	1251	rVV	7706803	24858398	100.00%	12.267%
19	11.474	1251	1259	1264	rVV	1921798	4985296	20.05%	2.460%
20	11.526	1264	1269	1293	rVB3	2500119	6173705	24.84%	3.047%
21	11.866	1321	1334	1353	rBV	2014147	4750078	19.11%	2.344%
22	12.201	1384	1398	1406	rBV	613610	1456482	5.86%	0.719%
23	12.290	1406	1415	1425	rVV	1307879	3402980	13.69%	1.679%
24	12.394	1425	1435	1457	rVV	3554675	9648761	38.81%	4.761%
25	12.572	1457	1469	1474	rVV2	204439	577397	2.32%	0.285%
26	12.624	1474	1479	1491	rVB2	220388	534284	2.15%	0.264%
27	12.797	1497	1512	1525	rBV	2468383	6310100	25.38%	3.114%
28	12.933	1526	1538	1542	rVV4	839014	2387848	9.61%	1.178%
29	12.990	1542	1549	1567	rVV	1939463	5478359	22.04%	2.703%
30	13.152	1569	1580	1596	rBV3	365276	1257045	5.06%	0.620%
31	13.341	1607	1616	1630	rVB	1000276	2496500	10.04%	1.232%
32	13.576	1646	1661	1674	rBV2	544456	1883162	7.58%	0.929%
33	13.676	1674	1680	1694	rVV	486057	1120429	4.51%	0.553%
34	13.806	1694	1705	1721	rVB	2462917	5981251	24.06%	2.952%
35	14.083	1748	1758	1770	rVB4	269250	835119	3.36%	0.412%
36	14.199	1770	1780	1790	rVB4	98065	300721	1.21%	0.148%
37	14.831	1888	1901	1907	rVV	318823	861058	3.46%	0.425%
38	14.889	1907	1912	1919	rVV	180244	451878	1.82%	0.223%
39	15.025	1930	1938	1951	rVB2	117213	325390	1.31%	0.161%
40	15.197	1959	1971	1980	rBV2	125527	316226	1.27%	0.156%
41	15.506	2022	2030	2040	rVB	106846	253443	1.02%	0.125%
42	15.720	2058	2071	2082	rBV	2249284	5284967	21.26%	2.608%
43	15.815	2083	2089	2100	rVV3	120231	336998	1.36%	0.166%

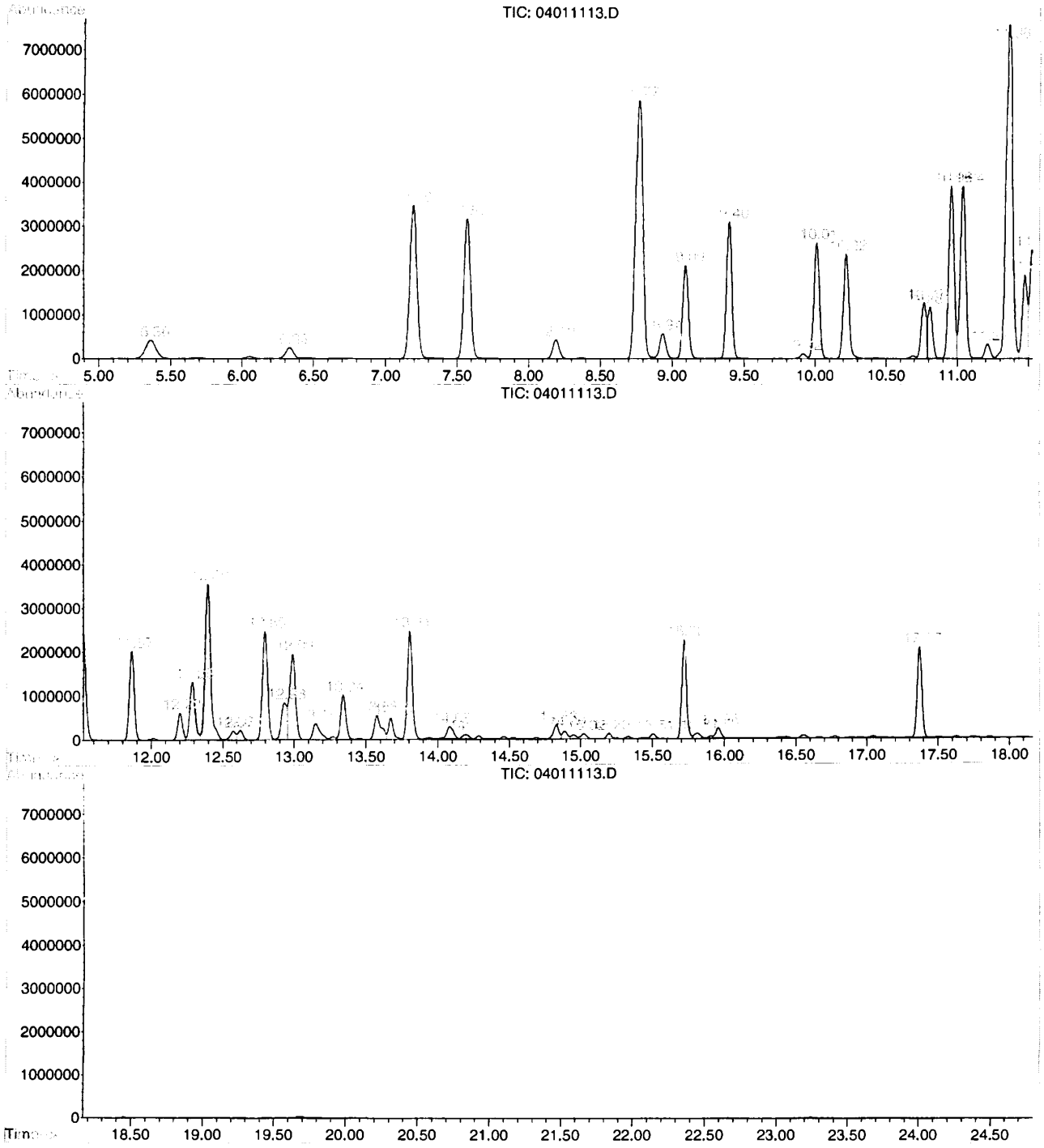
44	15.956	2109	2116	2128	rVB	226599	568333	2.29%	0.280%
45	17.373	2374	2387	2403	rVB	2054002	4660093	18.75%	2.300%

Sum of corrected areas: 202643412

04011113.D 031611V1.M Thu Apr 14 11:55:07 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011113.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 8:45 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-007B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 10
Quant File :031611V1.RES (RTE Integrator)



04011113.D 031611V1.M Thu Apr 14 11:55:07 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	8.59 ppbv	2258610	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	3.66 ppbv	962206	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	86
2	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
3	Isobutane	58	C4H10	000075-28-5	9
4	Diazene, dimethyl-	58	C2H6N2	000503-28-6	4
5	Propanal	58	C3H6O	000123-38-6	4

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	45.23 ppbv	11898200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	Isobutane	58	C4H10	000075-28-5	9
5	Methane, isocyanato- $$ Isocyanic a	57	C2H3NO	000624-83-9	9

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane $$ n-Pentane $$ Skelly Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	38.81 ppbv	10209800	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	39
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	36

****

Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	5.27 ppbv	1386490	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2-iodo-3-methyl-	198	C5H11I	000000-00-0	33

****

Peak Number 6 Butane, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	79.91 ppbv	21024200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	56
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	22.64 ppbv	5955810	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	40

****

Peak Number 8 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	26.88 ppbv	7071830	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 9 Cyclopentane, methyl- $$ Methy Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	24.62 ppbv	6477060	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	58

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	40.18 ppbv	10571000	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 11 Cyclopentane, 1,1-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	3.49 ppbv	917971	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
4	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	38
5	5-Methyl-2-hexene,c&t $$ 2-Hexene,	98	C7H14	003404-62-4	37

****

Peak Number 12 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	65.42 ppbv	24858400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	3.83 ppbv	1456480	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

****

Peak Number 14 Hexane, 2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	8.96 ppbv	3402980	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	80
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	72
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
4	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50

****

Peak Number 15 Cyclohexane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	25.39 ppbv	9648760	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Pentane, 2,3,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	16.61 ppbv	6310100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
2	Heptane, 4-methyl-	114	C8H18	000589-53-7	74
3	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	74
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	64
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64

****

Peak Number 17 Hexane, 2,3-dimethyl- $$ 2,3-D Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	6.28 ppbv	2387850	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	91
2	Pyrrolidine	71	C4H9N	000123-75-1	80
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
4	Hexane, 3-methyl-	100	C7H16	000589-34-4	56
5	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	53

****

Peak Number 18 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	14.42 ppbv	5478360	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	53
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	53
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	50
4	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	50
5	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	45

Data File : C:\HPCHEM\1\DATA\040111\04011113.D Vial: 10
Acq On : 1 Apr 2011 8:45 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	6.57 ppbv	2496500	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 20 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	4.96 ppbv	1883160	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	90

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 8:45 pm
Data File: C:\HPCHEM\1\DATA\040111\04011113.D
Name: 1103389-007B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	8.6	ppbv	2258610	ISTD01	10.77	3288530	12.5
Butane	6.33	3.7	ppbv	962206	ISTD01	10.77	3288530	12.5
Butane, 2-methyl-	7.19	45.2	ppbv	11898200	ISTD01	10.77	3288530	12.5
Pentane $$ n-Pentane	7.57	38.8	ppbv	10209800	ISTD01	10.77	3288530	12.5
Butane, 2,2-dimethyl	8.19	5.3	ppbv	1386490	ISTD01	10.77	3288530	12.5
Butane, 2,3-dimethyl	8.77	79.9	ppbv	21024200	ISTD01	10.77	3288530	12.5
Pentane, 3-methyl-	9.09	22.6	ppbv	5955810	ISTD01	10.77	3288530	12.5
Pentane, 2,4-dimethy	10.01	26.9	ppbv	7071830	ISTD01	10.77	3288530	12.5
Cyclopentane, methyl	10.22	24.6	ppbv	6477060	ISTD01	10.77	3288530	12.5
Pentane, 2,3-dimethy	10.96	40.2	ppbv	10571000	ISTD01	10.77	3288530	12.5
Cyclopentane, 1,1-di	11.21	3.5	ppbv	917971	ISTD01	10.77	3288530	12.5
Butane, 2,2,3,3-tetr	11.36	65.4	ppbv	24858400	ISTD02	11.87	4750080	12.5
Hexane, 2,5-dimethyl	12.20	3.8	ppbv	1456480	ISTD02	11.87	4750080	12.5
Hexane, 2,4-dimethyl	12.29	9.0	ppbv	3402980	ISTD02	11.87	4750080	12.5
Cyclohexane, methyl-	12.39	25.4	ppbv	9648760	ISTD02	11.87	4750080	12.5
Pentane, 2,3,4-trime	12.80	16.6	ppbv	6310100	ISTD02	11.87	4750080	12.5
Hexane, 2,3-dimethyl	12.93	6.3	ppbv	2387850	ISTD02	11.87	4750080	12.5
Pentane, 2,3,4-trime	12.99	14.4	ppbv	5478360	ISTD02	11.87	4750080	12.5
Hexane, 2,2,5-trimet	13.34	6.6	ppbv	2496500	ISTD02	11.87	4750080	12.5
Cyclohexane, 1,3-dim	13.58	5.0	ppbv	1883160	ISTD02	11.87	4750080	12.5

04011113.D 031611V1.M Thu Apr 14 11:55:08 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:08 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

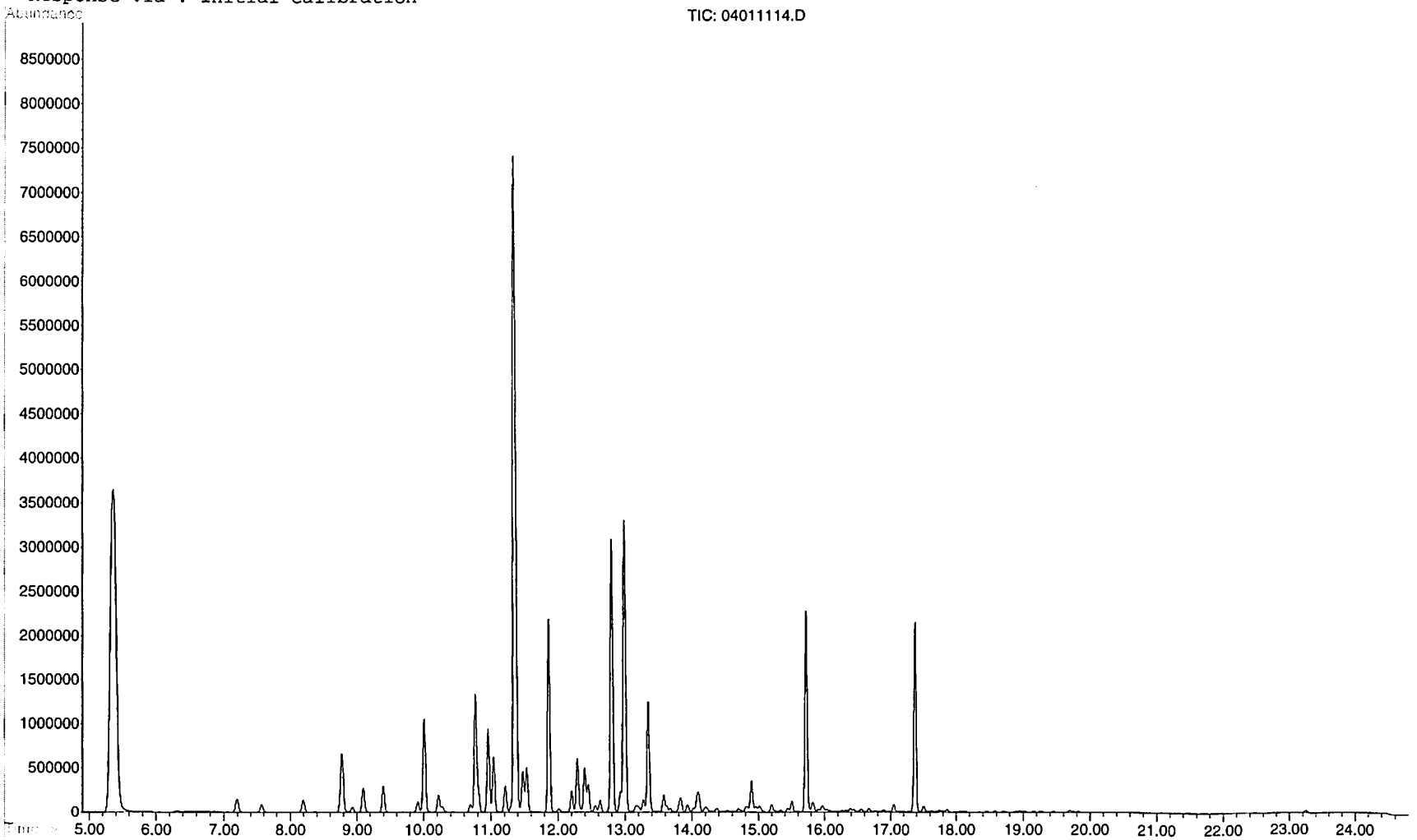
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	621603	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2269475	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1707150	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1023044	11.96	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.68%				
Target Compounds							Qvalue
17) Methylene chloride	8.94	49	39210	0.63	ppbv		91
20) n-Hexane	9.40	57	189669	2.09	ppbv		94
29) Cyclohexane	11.04	56	291605	3.17	ppbv	#	76
31) Benzene	11.47	78	446651	2.91	ppbv		97
34) Heptane	11.53	43	92818	0.85	ppbv	#	61

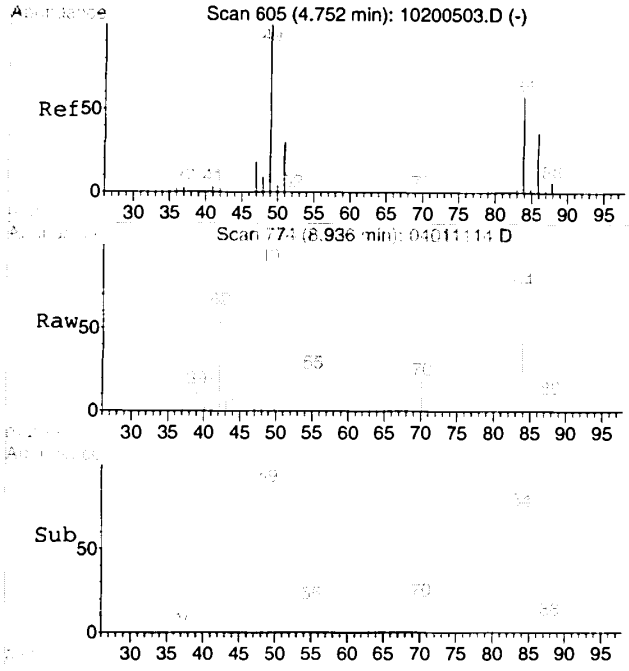
(#) = qualifier out of range (m) = manual integration
04011114.D 031611V1.M Thu Apr 14 11:55:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:08 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

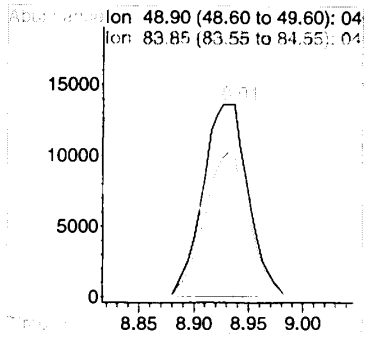


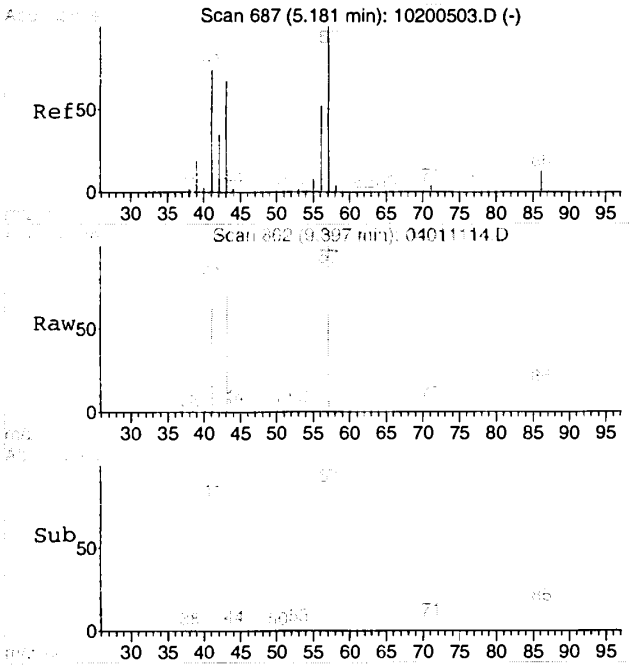


#17
Methylene chloride
Concen: 0.63 ppbv
RT: 8.94 min Scan# 774
Delta R.T. 0.01 min
Lab File: 04011114.D
Acq: 1 Apr 2011 9:26 pm

Tgt Ion: 49 Resp: 39210

Ion	Ratio	Lower	Upper
49	100		
84	73.2	65.4	98.2
86	47.2	42.3	63.5

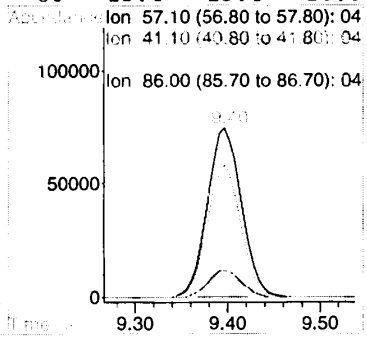


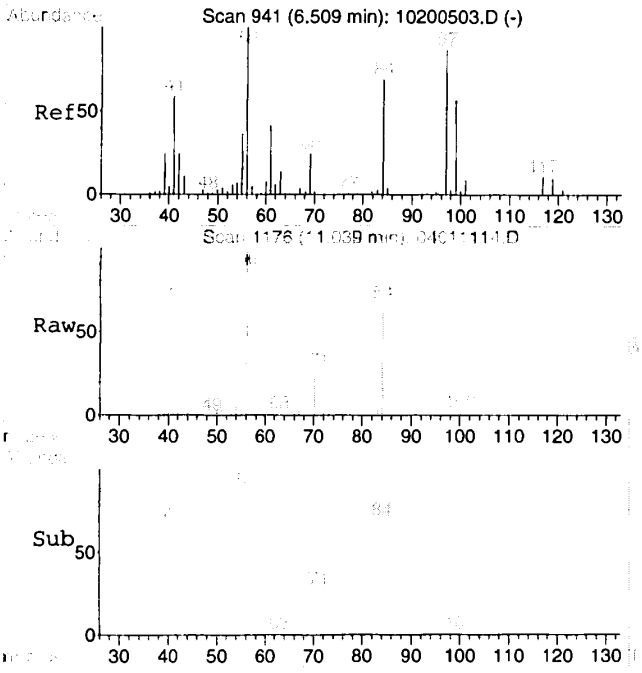


#20
n-Hexane
Concen: 2.09 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011114.D
Acq: 1 Apr 2011 9:26 pm

Tgt Ion: 57 Resp: 189669

Ion	Ratio	Lower	Upper
57	100		
41	76.8	57.2	85.8
53	2.2	1.8	2.8
86	15.4	13.4	20.0

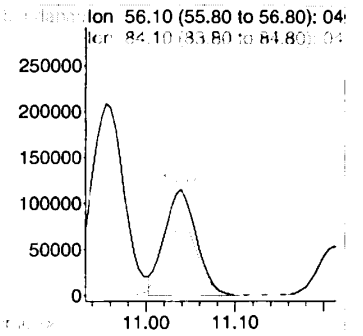


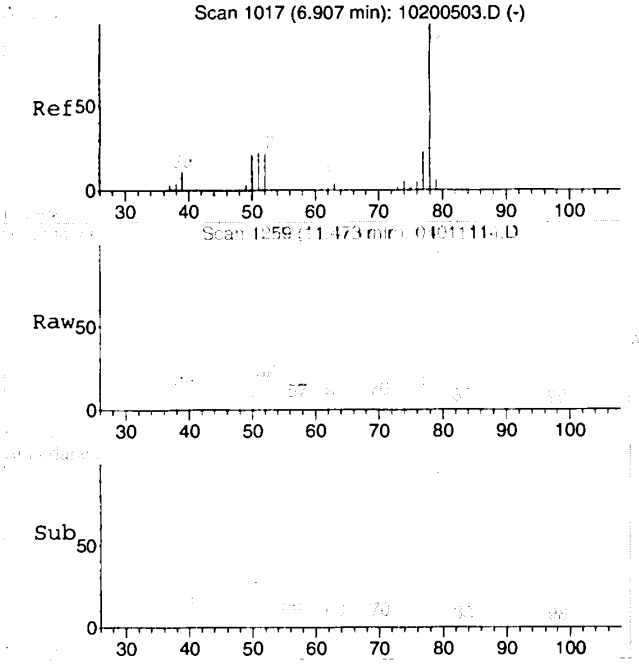


#29
Cyclohexane
Concen: 3.17 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011114.D
Acq: 1 Apr 2011 9:26 pm

Tgt Ion: 56 Resp: 291605

Ion	Ratio	Lower	Upper
56	100		
84	69.0	72.4	108.6#
41	73.6	43.8	65.8#

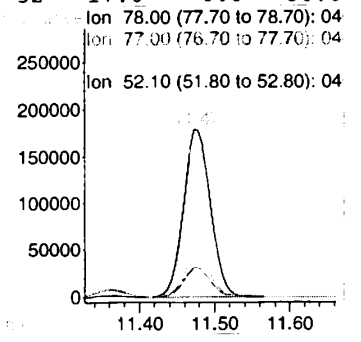


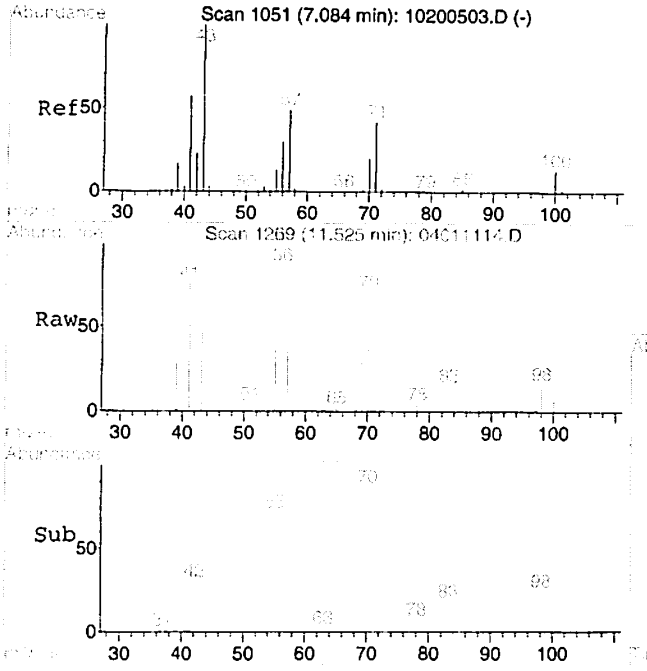


#31
Benzene
Concen: 2.91 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04011114.D
Acq: 1 Apr 2011 9:26 pm

Tgt Ion: 78 Resp: 446651

Ion	Ratio	Lower	Upper
78	100		
77	24.4	3.7	43.7
51	17.9	0.0	36.1
52	17.6	0.0	36.0

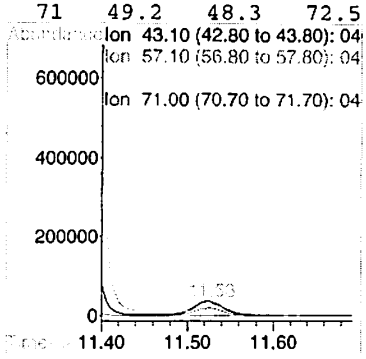




#34
Heptane
Concen: 0.85 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04011114.D
Acq: 1 Apr 2011 9:26 pm

Tgt Ion: 43 Resp: 92818

Ion	Ratio	Lower	Upper
43	100		
57	0.0	42.2	63.4#
100	10.8	17.3	25.9#
71	49.2	48.3	72.5



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

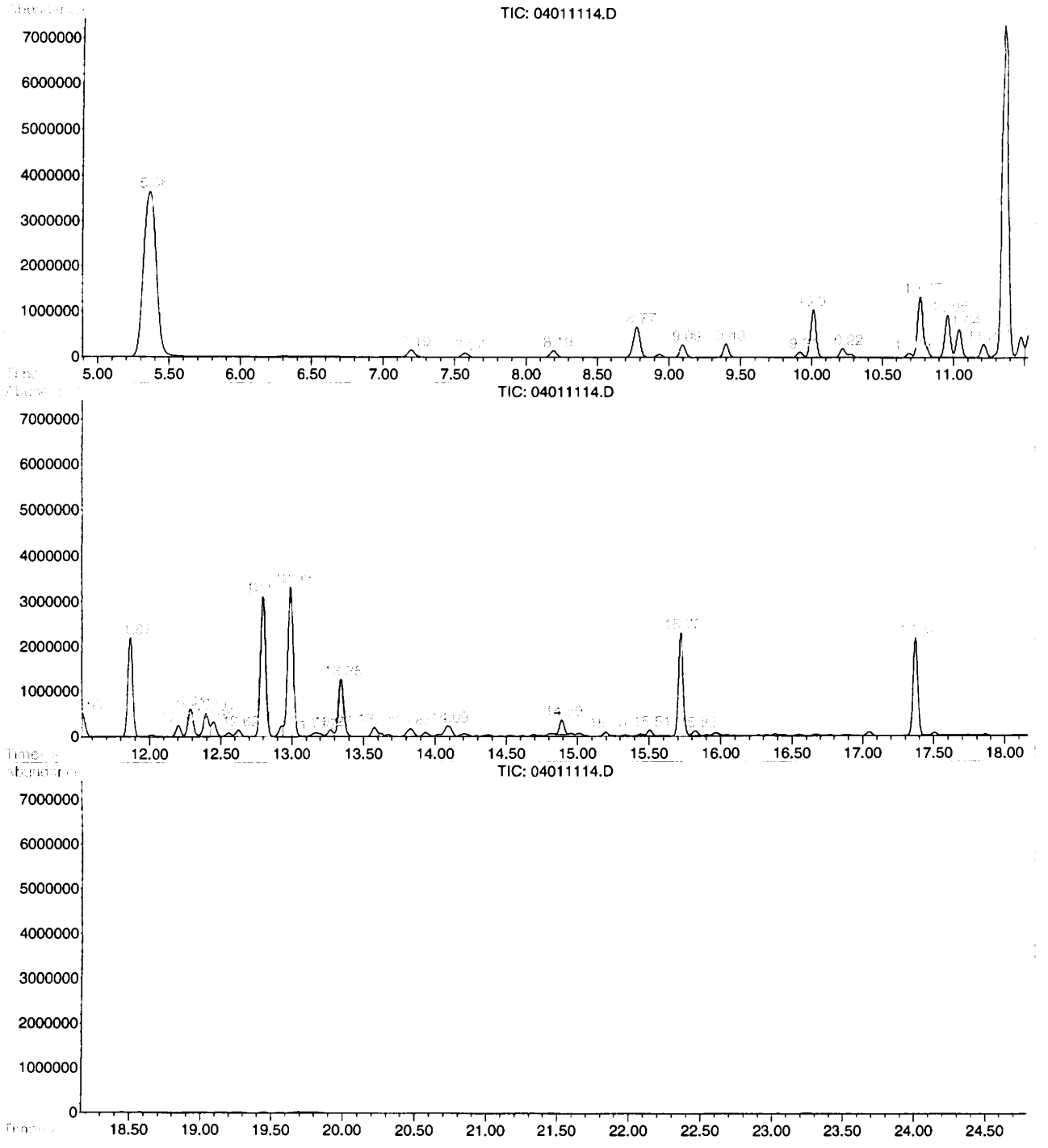
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	60	90	142	rBV	3651149	23116736	100.00%	20.947%
2	7.195	427	441	456	rVB2	151073	509383	2.20%	0.462%
3	7.571	500	513	529	rVB	91572	282285	1.22%	0.256%
4	8.194	618	632	646	rVB2	141423	445207	1.93%	0.403%
5	8.774	726	743	763	rBV3	668776	2192005	9.48%	1.986%
6	9.093	791	804	821	rVB	281477	798351	3.45%	0.723%
7	9.397	850	862	876	rBV2	300120	753415	3.26%	0.683%
8	9.914	950	961	969	rBV	124202	336337	1.45%	0.305%
9	10.009	969	979	996	rVB	1061239	2789342	12.07%	2.527%
10	10.218	1006	1019	1027	rBV	199676	561690	2.43%	0.509%
11	10.694	1097	1110	1114	rBV3	93045	242570	1.05%	0.220%
12	10.767	1114	1124	1147	rVV2	1344396	3887403	16.82%	3.522%
13	10.955	1147	1160	1168	rVV	947093	2443141	10.57%	2.214%
14	11.039	1168	1176	1190	rVB2	628436	1631343	7.06%	1.478%
15	11.212	1196	1209	1219	rBV	301826	807603	3.49%	0.732%
16	11.363	1219	1238	1251	rVV	7428952	22434667	97.05%	20.329%
17	11.473	1251	1259	1265	rVV	462370	1231428	5.33%	1.116%
18	11.531	1265	1270	1286	rVB2	507422	1273635	5.51%	1.154%
19	11.865	1321	1334	1351	rBV	2197685	5112253	22.11%	4.632%
20	12.200	1386	1398	1405	rBV	242967	580439	2.51%	0.526%
21	12.284	1405	1414	1426	rVV2	610258	1595710	6.90%	1.446%
22	12.394	1426	1435	1441	rVV	504240	1329110	5.75%	1.204%
23	12.446	1441	1445	1457	rVV	319436	762180	3.30%	0.691%
24	12.624	1472	1479	1491	rVB2	141126	351605	1.52%	0.319%
25	12.796	1494	1512	1527	rBV	3105054	7949232	34.39%	7.203%
26	12.927	1527	1537	1539	rVV	233845	471996	2.04%	0.428%
27	12.990	1539	1549	1569	rVV	3311909	8959138	38.76%	8.118%
28	13.168	1572	1583	1595	rVV3	74130	318379	1.38%	0.288%
29	13.272	1595	1603	1608	rVV2	139802	352388	1.52%	0.319%
30	13.345	1608	1617	1633	rVB	1248226	3160731	13.67%	2.864%
31	13.576	1645	1661	1667	rBV	199438	512035	2.21%	0.464%
32	13.827	1693	1709	1721	rBV4	168767	558999	2.42%	0.507%
33	14.088	1750	1759	1771	rVV4	224817	773549	3.35%	0.701%
34	14.888	1904	1912	1921	rVV	314968	727405	3.15%	0.659%
35	15.197	1960	1971	1989	rBV	92481	260165	1.13%	0.236%
36	15.505	2023	2030	2040	rVB	128478	308698	1.34%	0.280%
37	15.720	2059	2071	2083	rBV	2288360	5338978	23.10%	4.838%
38	15.825	2083	2091	2100	rVB2	105473	282229	1.22%	0.256%
39	17.373	2367	2387	2401	rBV	2159437	4918669	21.28%	4.457%

Sum of corrected areas: 110360429

04011114.D 031611V1.M Thu Apr 14 11:55:32 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011114.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 9:26 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-008B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 11
Quant File :031611V1.RES (RTE Integrator)



04011114.D 031611V1.M Thu Apr 14 11:55:32 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D
Acq On : 1 Apr 2011 9:26 pm
Sample : 1103389-008B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 11
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	74.33 ppbv	23116700	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	1.64 ppbv	509383	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	38
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 3 Butane, 2,2-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	1.43 ppbv	445207	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Azetidine, 2-methyl-	71	C4H9N	019812-49-8	42

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	7.05 ppbv	2192010	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	2.57 ppbv	798351	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	40

****

Peak Number 6 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	8.97 ppbv	2789340	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, methyl- $$ Methy Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	1.81 ppbv	561690	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	56

****

Peak Number 8 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	7.86 ppbv	2443140	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 9 Cyclopentane, 1,1-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.60 ppbv	807603	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	87
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	1-Hexyn-3-ol	98	C6H10O	000105-31-7	35

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	54.86 ppbv	22434700	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

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Peak Number 11 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	1.42 ppbv	580439	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

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Peak Number 12 2-Undecene, 6-methyl-, (Z)- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.90 ppbv	1595710	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	53
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	49
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46
4	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	43
5	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclohexane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	3.25 ppbv	1329110	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	59

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Peak Number 14 Azetidine Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	1.86 ppbv	762180	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Azetidine	57	C3H7N	000503-29-7	9
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	9
3	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	9
4	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	9
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	9

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	19.44 ppbv	7949230	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64
4	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	64
5	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	56

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	21.91 ppbv	8959140	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	83
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
3	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
5	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59

****

Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	7.73 ppbv	3160730	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83

****

Peak Number 18 Cyclohexane, 1,1-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	1.31 ppbv	558999	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	93
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	76
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	76
4	Cyclohexane, 1,1-dimethyl- $$ Gem-D	112	C8H16	000590-66-9	70
5	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011114.D Vial: 11
Acq On : 1 Apr 2011 9:26 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.09	1.81 ppbv	773549	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	70
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	70
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	64
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	62
5	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	62

****

Peak Number 20 4-Amino-6-hydroxypyrimidine $$ Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	1.70 ppbv	727405	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Amino-6-hydroxypyrimidine $$ 4(1H	111	C4H5N3O	001193-22-2	59
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	50
3	1,1,4-Trimethylcyclohexane $$ Cyclo	126	C9H18	007094-27-1	50
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	46
5	Cyclohexane, 1,3,5-trimethyl-, (1.a	126	C9H18	001795-26-2	43

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 9:26 pm
Data File: C:\HPCHEM\1\DATA\040111\04011114.D
Name: 1103389-008B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	74.3	ppbv	23116700	ISTD01	10.77	3887400	12.5
Butane, 2-methyl-	7.19	1.6	ppbv	509383	ISTD01	10.77	3887400	12.5
Butane, 2,2-dimethyl	8.19	1.4	ppbv	445207	ISTD01	10.77	3887400	12.5
Pentane, 2-methyl-	8.77	7.0	ppbv	2192010	ISTD01	10.77	3887400	12.5
Pentane, 3-methyl-	9.09	2.6	ppbv	798351	ISTD01	10.77	3887400	12.5
Pentane, 2,4-dimethy	10.01	9.0	ppbv	2789340	ISTD01	10.77	3887400	12.5
Cyclopentane, methyl	10.22	1.8	ppbv	561690	ISTD01	10.77	3887400	12.5
Pentane, 2,3-dimethy	10.96	7.9	ppbv	2443140	ISTD01	10.77	3887400	12.5
Cyclopentane, 1,1-di	11.21	2.6	ppbv	807603	ISTD01	10.77	3887400	12.5
Hexane, 2,2-dimethyl	11.36	54.9	ppbv	22434700	ISTD02	11.87	5112250	12.5
Hexane, 2,5-dimethyl	12.20	1.4	ppbv	580439	ISTD02	11.87	5112250	12.5
2-Undecene, 6-methyl	12.28	3.9	ppbv	1595710	ISTD02	11.87	5112250	12.5
Cyclohexane, methyl-	12.39	3.2	ppbv	1329110	ISTD02	11.87	5112250	12.5
Azetidine	12.45	1.9	ppbv	762180	ISTD02	11.87	5112250	12.5
Pentane, 2,3,4-trime	12.80	19.4	ppbv	7949230	ISTD02	11.87	5112250	12.5
Pentane, 2,3,3-trime	12.99	21.9	ppbv	8959140	ISTD02	11.87	5112250	12.5
Hexane, 2,2,5-trimet	13.35	7.7	ppbv	3160730	ISTD02	11.87	5112250	12.5
Cyclohexane, 1,1-dim	13.83	1.3	ppbv	558999	ISTD03	15.72	5338980	12.5
Cyclohexane, 1,2-dim	14.09	1.8	ppbv	773549	ISTD03	15.72	5338980	12.5
4-Amino-6-hydroxypyr	14.89	1.7	ppbv	727405	ISTD03	15.72	5338980	12.5

04011114.D 031611V1.M Thu Apr 14 11:55:33 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:09 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

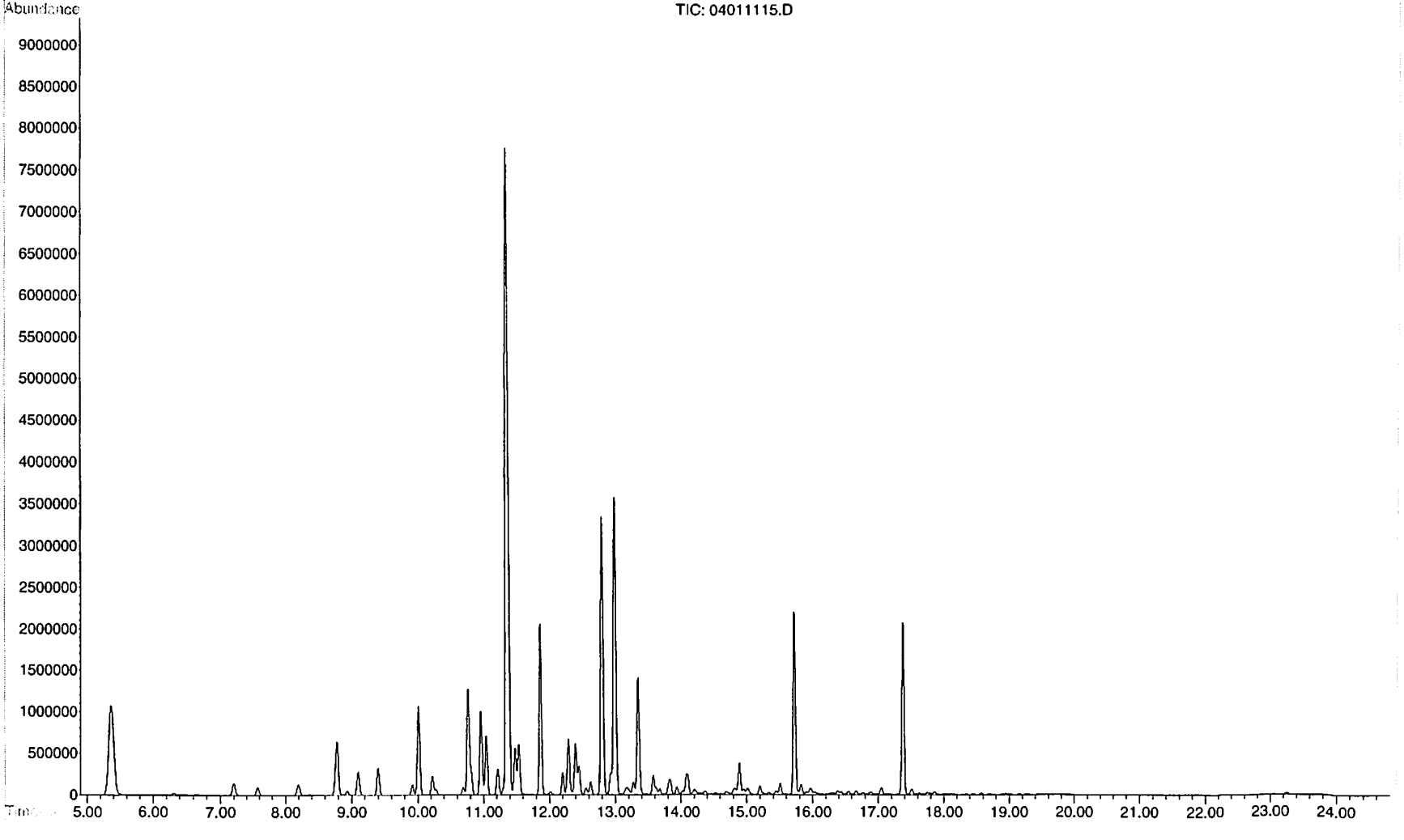
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	589607	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2135510	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1630085	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	982135	12.02	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.16%				
Target Compounds							Qvalue
20) n-Hexane	9.40	57	205012	2.38	ppbv		94
29) Cyclohexane	11.04	56	322440	3.70	ppbv	#	75
31) Benzene	11.48	78	540288	3.71	ppbv		97
34) Heptane	11.53	43	122962	1.19	ppbv	#	76
41) Toluene	13.81	91	85966	0.53	ppbv		96

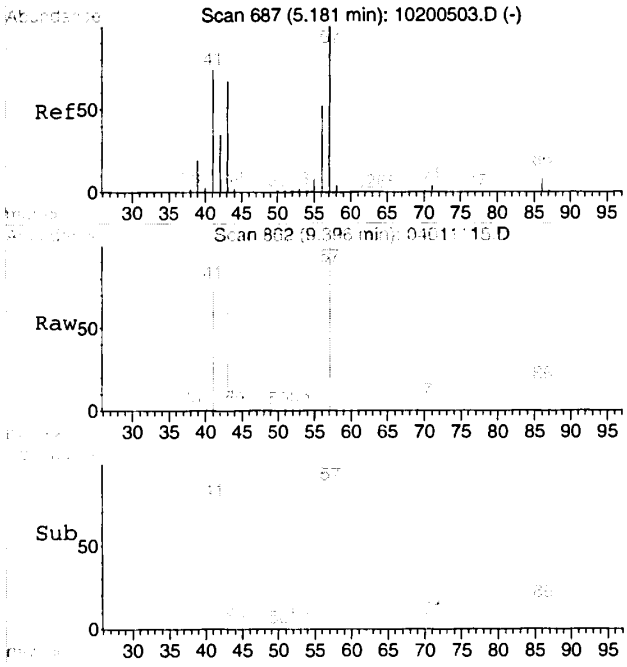
(#) = qualifier out of range (m) = manual integration
04011115.D 031611V1.M Thu Apr 14 11:59:38 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:09 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

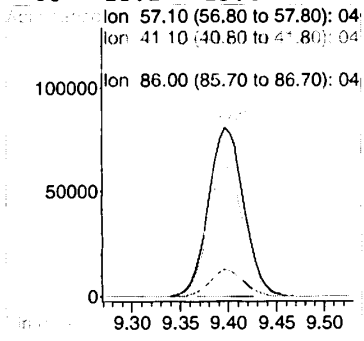


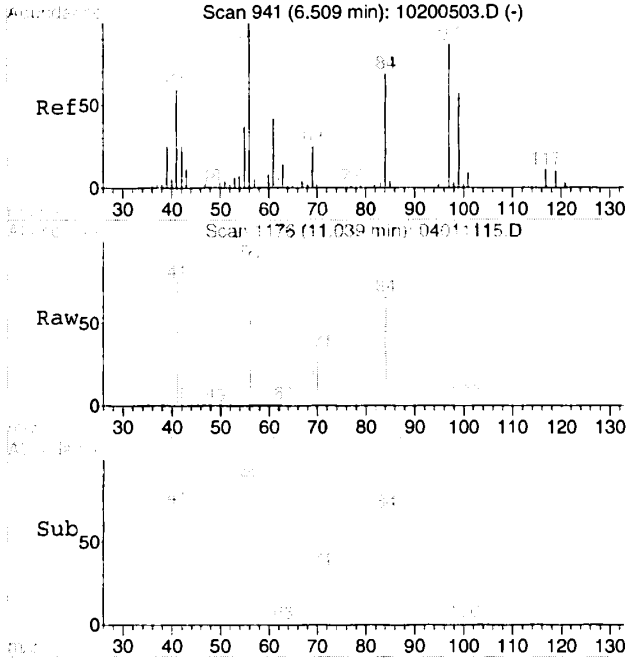


#20
n-Hexane
Concen: 2.38 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011115.D
Acq: 1 Apr 2011 10:07 pm

Tgt Ion: 57 Resp: 205012

Ion	Ratio	Lower	Upper
57	100		
41	76.6	57.2	85.8
53	2.3	1.8	2.8
86	15.1	13.4	20.0

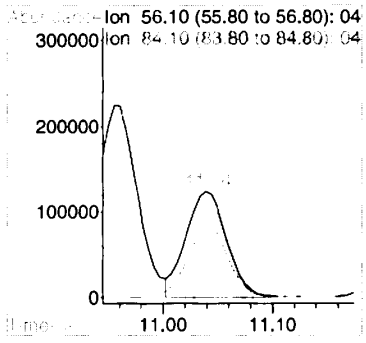


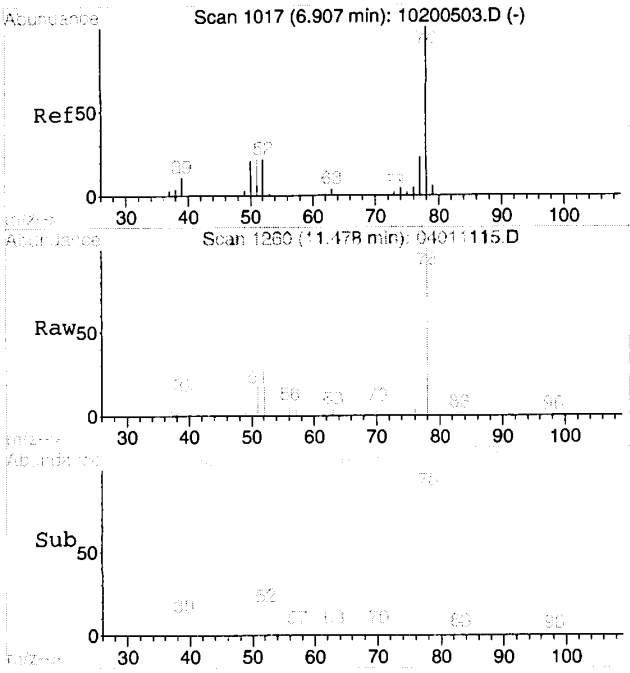


#29
Cyclohexane
Concen: 3.70 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011115.D
Acq: 1 Apr 2011 10:07 pm

Tgt Ion: 56 Resp: 322440

Ion	Ratio	Lower	Upper
56	100		
84	67.3	72.4	108.6#
41	74.1	43.8	65.8#

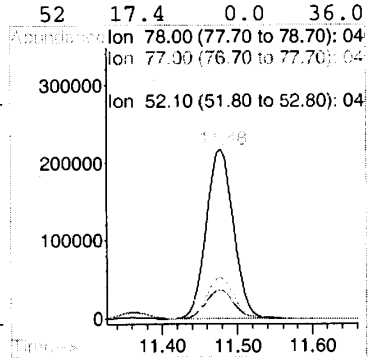


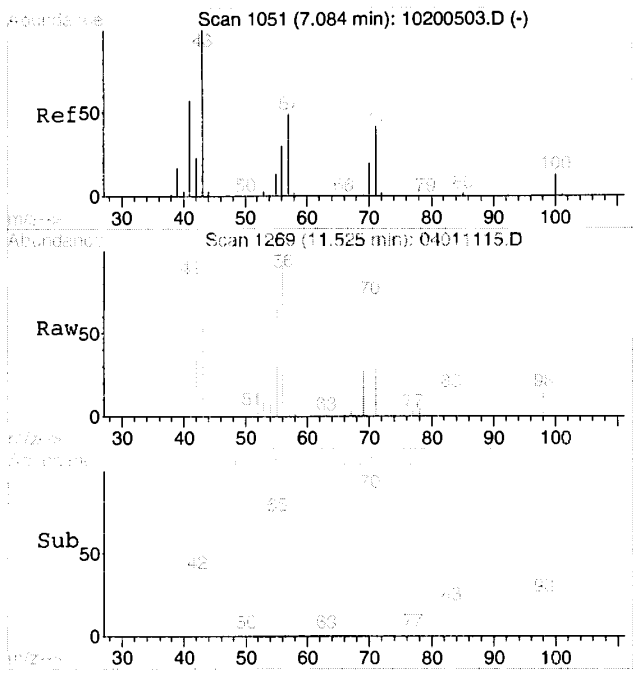


#31
Benzene
Concen: 3.71 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011115.D
Acq: 1 Apr 2011 10:07 pm

Tgt Ion: 78 Resp: 540288

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.7	43.7
51	18.0	0.0	36.1
52	17.4	0.0	36.0

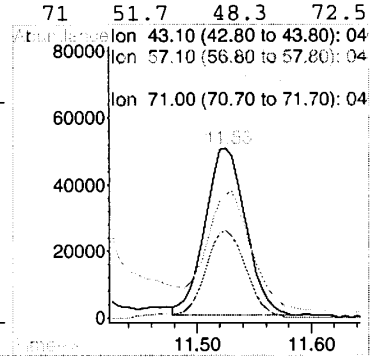


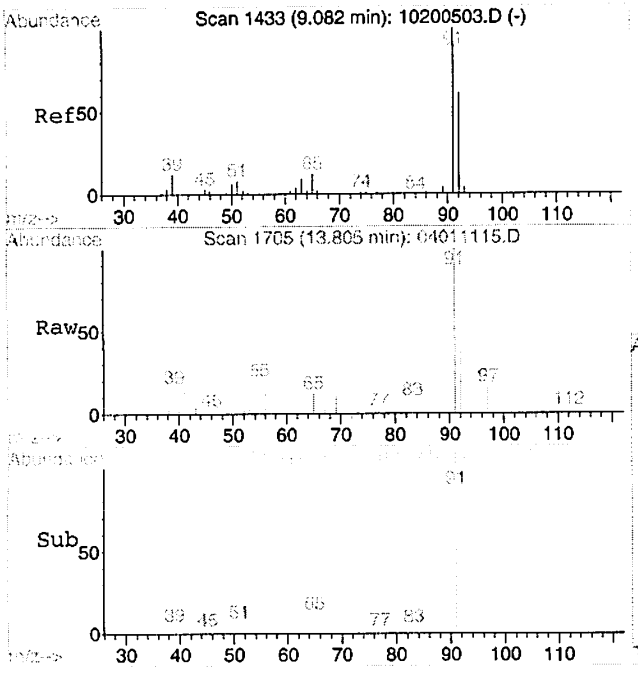


#34
Heptane
Concen: 1.19 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04011115.D
Acq: 1 Apr 2011 10:07 pm

Tgt Ion: 43 Resp: 122962

Ion	Ratio	Lower	Upper
43	100		
57	82.1	42.2	63.4#
100	12.6	17.3	25.9#
71	51.7	48.3	72.5

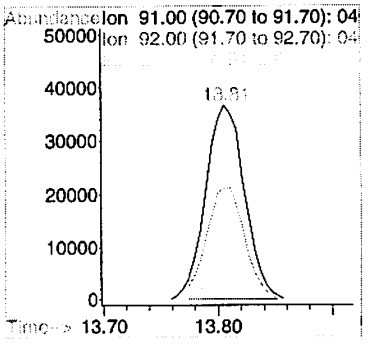




#41
Toluene
Concen: 0.53 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011115.D
Acq: 1 Apr 2011 10:07 pm

Tgt Ion: 91 Resp: 85966

Ion	Ratio	Lower	Upper
91	100		
92	57.4	40.5	80.5
65	12.7	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D
Acq On : 1 Apr 2011 10:07 pm
Sample : 1103389-009B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 12
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

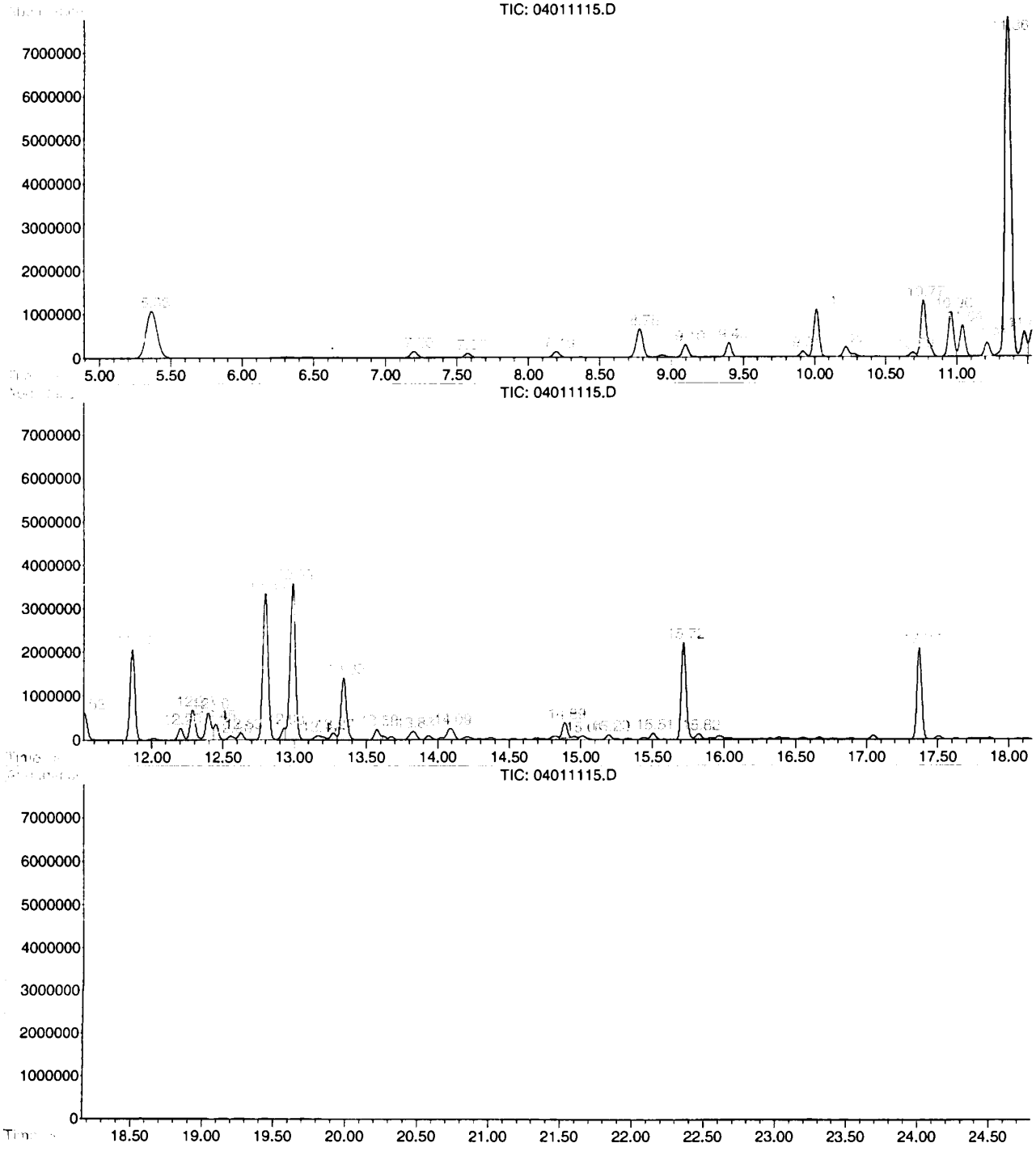
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	63	90	131	rBV	1070280	5877676	24.69%	5.982%
2	7.200	427	442	457	rVB2	143714	479563	2.01%	0.488%
3	7.571	502	513	530	rVB3	95335	293021	1.23%	0.298%
4	8.193	620	632	647	rBV2	130602	410207	1.72%	0.417%
5	8.779	727	744	760	rBV2	642636	2091788	8.79%	2.129%
6	9.098	792	805	821	rB3	279877	785262	3.30%	0.799%
7	9.396	851	862	878	rBB	326549	819339	3.44%	0.834%
8	9.914	951	961	969	rBV	123944	335847	1.41%	0.342%
9	10.014	969	980	995	rVB	1072269	2835855	11.91%	2.886%
10	10.223	1007	1020	1027	rBV	225480	626245	2.63%	0.637%
11	10.693	1098	1110	1115	rBV	95775	258342	1.09%	0.263%
12	10.767	1115	1124	1147	rVV2	1279619	3790695	15.92%	3.858%
13	10.960	1148	1161	1168	rVV	1009837	2616396	10.99%	2.663%
14	11.039	1168	1176	1189	rVB2	711564	1841552	7.74%	1.874%
15	11.211	1197	1209	1219	rBV	313928	846633	3.56%	0.862%
16	11.363	1219	1238	1251	rVV	7773148	23807388	100.00%	24.228%
17	11.473	1251	1259	1265	rVV	563537	1493547	6.27%	1.520%
18	11.530	1265	1270	1290	rVB4	606805	1545800	6.49%	1.573%
19	11.865	1321	1334	1353	rBV	2067337	4794221	20.14%	4.879%
20	12.200	1387	1398	1406	rBV	272931	654353	2.75%	0.666%
21	12.289	1406	1415	1425	rVV2	675520	1763288	7.41%	1.794%
22	12.399	1426	1436	1442	rVV	621281	1703190	7.15%	1.733%
23	12.446	1442	1445	1457	rVV	351535	772289	3.24%	0.786%
24	12.555	1457	1466	1473	rVV	87752	248150	1.04%	0.253%
25	12.629	1473	1480	1490	rVB	158915	390540	1.64%	0.397%
26	12.796	1497	1512	1526	rBV	3347436	8607818	36.16%	8.760%
27	12.927	1526	1537	1539	rVV	265774	537337	2.26%	0.547%
28	12.990	1539	1549	1568	rVV	3577033	9721595	40.83%	9.894%
29	13.173	1571	1584	1595	rVV3	87925	398093	1.67%	0.405%
30	13.267	1595	1602	1608	rVV	151146	389420	1.64%	0.396%
31	13.345	1608	1617	1632	rVB	1406232	3527422	14.82%	3.590%
32	13.575	1650	1661	1668	rBV3	235089	624536	2.62%	0.636%
33	13.826	1695	1709	1720	rBV4	186250	641432	2.69%	0.653%
34	14.088	1750	1759	1771	rVB5	248433	846202	3.55%	0.861%
35	14.888	1904	1912	1920	rVB	336038	790933	3.32%	0.805%
36	15.014	1930	1936	1952	rVB5	84528	268842	1.13%	0.274%
37	15.197	1960	1971	1988	rBV2	109328	313542	1.32%	0.319%
38	15.505	2023	2030	2040	rVB	138258	330196	1.39%	0.336%
39	15.720	2059	2071	2083	rBV	2207738	5171407	21.72%	5.263%
40	15.824	2083	2091	2099	rVB3	116525	301684	1.27%	0.307%
41	17.372	2370	2387	2402	rBV	2078357	4710384	19.79%	4.794%

Sum of corrected areas: 98262030

04011115.D 031611V1.M Thu Apr 14 11:59:45 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011115.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 10:07 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-009B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 12
Quant File :031611V1.RES (RTE Integrator)



04011115.D 031611V1.M Thu Apr 14 11:59:45 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	19.38 ppbv	5877680	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	1.58 ppbv	479563	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	74
3	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	72
4	3-Buten-1-ol	72	C4H8O	000627-27-0	37
5	Methane, isocyanato- $$ Isocyanic a	57	C2H3NO	000624-83-9	9

****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.78	6.90 ppbv	2091790	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	2.59 ppbv	785262	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	74
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64

****

Peak Number 5 Pentane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	9.35 ppbv	2835860	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Cyclopentane, methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	2.07 ppbv	626245	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	90
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
5	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	8.63 ppbv	2616400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

****

Peak Number 8 Cyclopentane, 1,1-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.79 ppbv	846633	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	87
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	72
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	1-Hexyn-3-ol	98	C6H10O	000105-31-7	35

****

Peak Number 9 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	62.07 ppbv	23807400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	1.71 ppbv	654353	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	47

****

Peak Number 11 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.60 ppbv	1763290	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	43
2	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	42
3	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
4	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	38
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	35

****

Peak Number 12 Cyclohexane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	4.44 ppbv	1703190	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
3	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	53
5	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Pentane, 2,2,3-trimethyl- $$ 2 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	2.01 ppbv	772289	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	64
2	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	9
3	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	9
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	9
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	9

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	22.44 ppbv	8607820	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64

****

Peak Number 15 Hexane, 2,3-dimethyl- $$ 2,3-D Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	1.40 ppbv	537337	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	94
2	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	83
3	Pyrrolidine	71	C4H9N	000123-75-1	80
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	64
5	Octane, 4,5-dimethyl- $$ 4,5-Dimeth	142	C10H22	015869-96-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Hexane, 3,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	25.35 ppbv	9721600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
2	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	72
3	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	64
4	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	59
5	Octane, 4-methyl-	128	C9H20	002216-34-4	50

****

Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	9.20 ppbv	3527420	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	1.63 ppbv	624536	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	94
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	90
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	86

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011115.D Vial: 12
Acq On : 1 Apr 2011 10:07 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.09	2.05 ppbv	846202	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	95
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	70
3	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	70
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	70
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	70

****

Peak Number 20 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	1.91 ppbv	790933	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
2	4-Amino-6-hydroxypyrimidine $$ 4(1H	111	C4H5N3O	001193-22-2	64
3	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	58
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	52
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	42

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 10:07 pm
Data File: C:\HPCHEM\1\DATA\040111\04011115.D
Name: 1103389-009B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	19.4	ppbv	5877680	ISTD01	10.77	3790700	12.5
Butane, 2-methyl-	7.20	1.6	ppbv	479563	ISTD01	10.77	3790700	12.5
Pentane, 2-methyl-	8.78	6.9	ppbv	2091790	ISTD01	10.77	3790700	12.5
Pentane, 3-methyl-	9.10	2.6	ppbv	785262	ISTD01	10.77	3790700	12.5
Pentane, 2,4-dimethy	10.01	9.4	ppbv	2835860	ISTD01	10.77	3790700	12.5
Cyclopentane, methyl	10.22	2.1	ppbv	626245	ISTD01	10.77	3790700	12.5
Pentane, 2,3-dimethy	10.96	8.6	ppbv	2616400	ISTD01	10.77	3790700	12.5
Cyclopentane, 1,1-di	11.21	2.8	ppbv	846633	ISTD01	10.77	3790700	12.5
Butane, 2,2,3,3-tetr	11.36	62.1	ppbv	23807400	ISTD02	11.87	4794220	12.5
Hexane, 2,5-dimethyl	12.20	1.7	ppbv	654353	ISTD02	11.87	4794220	12.5
Hexane, 2,4-dimethyl	12.29	4.6	ppbv	1763290	ISTD02	11.87	4794220	12.5
Cyclohexane, methyl-	12.40	4.4	ppbv	1703190	ISTD02	11.87	4794220	12.5
Pentane, 2,2,3-trime	12.45	2.0	ppbv	772289	ISTD02	11.87	4794220	12.5
Pentane, 2,3,4-trime	12.80	22.4	ppbv	8607820	ISTD02	11.87	4794220	12.5
Hexane, 2,3-dimethyl	12.93	1.4	ppbv	537337	ISTD02	11.87	4794220	12.5
Hexane, 3,3-dimethyl	12.99	25.3	ppbv	9721600	ISTD02	11.87	4794220	12.5
Hexane, 2,2,5-trimet	13.35	9.2	ppbv	3527420	ISTD02	11.87	4794220	12.5
Cyclohexane, 1,3-dim	13.58	1.6	ppbv	624536	ISTD02	11.87	4794220	12.5
Cyclohexane, 1,2-dim	14.09	2.0	ppbv	846202	ISTD03	15.72	5171410	12.5
Cyclohexane, 1,1,3-t	14.89	1.9	ppbv	790933	ISTD03	15.72	5171410	12.5

04011115.D 031611V1.M Thu Apr 14 11:59:46 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:09 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	555872	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1870880	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1686182	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1050727	12.43	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.44%				
Target Compounds							Qvalue
2) Propylene *	5.68	41	92560	2.22	ppbv		92
17) Methylene chloride *	8.93	49	32953	0.59	ppbv		93
20) n-Hexane	9.40	57	7397039	91.12	ppbv	#	98
29) Cyclohexane	11.04	56	6607514	80.39	ppbv	#	82
31) Benzene	11.48	78	4641893	33.78	ppbv		94
34) Heptane	11.52	43	3677873	40.70	ppbv	#	92
41) Toluene	13.81	91	7111962	50.44	ppbv		93
50) Ethylbenzene *	15.80	91	485738	2.48	ppbv		95
51) m,p-Xylene *	15.96	91	1127581	7.43	ppbv		95
52) o-Xylene *	16.55	91	359167	2.43	ppbv	#	87

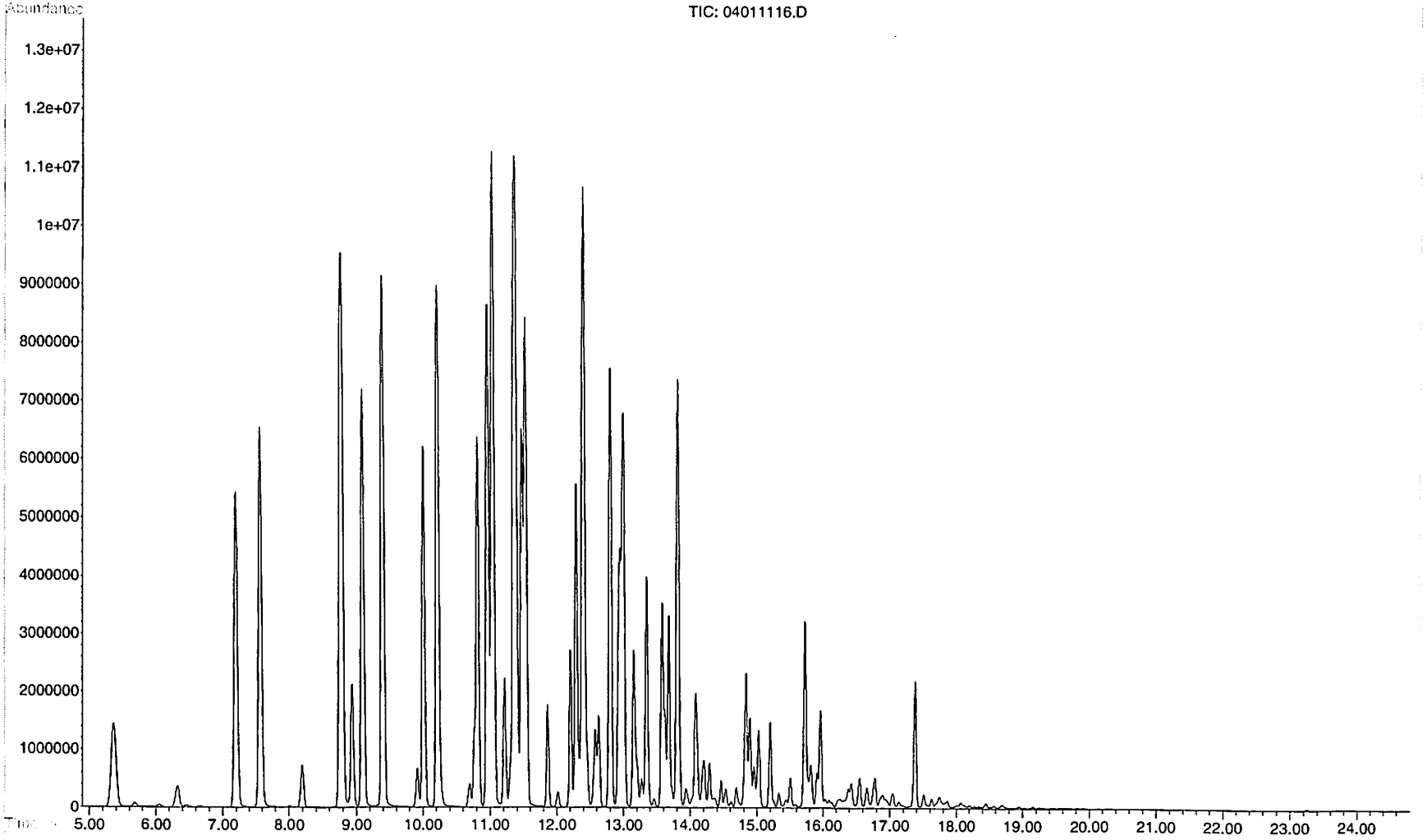
* reporting only CM 4/15/11

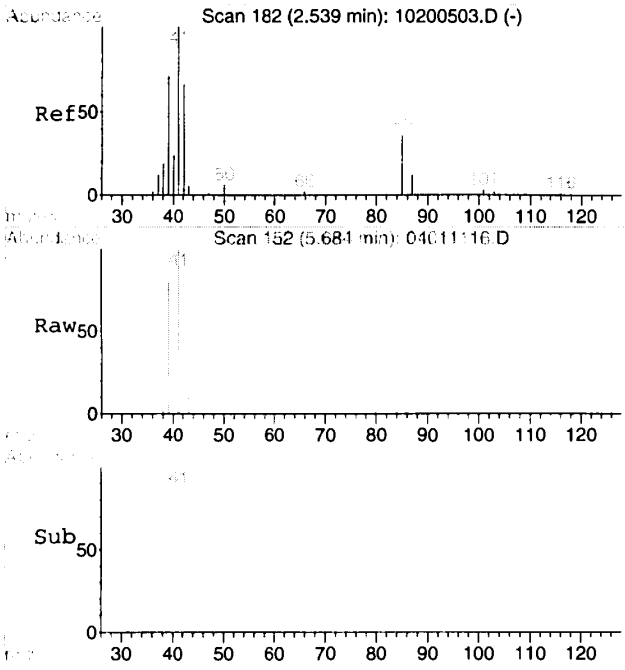
(#) = qualifier out of range (m) = manual integration
04011116.D 031611V1.M Thu Apr 14 11:59:51 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:09 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

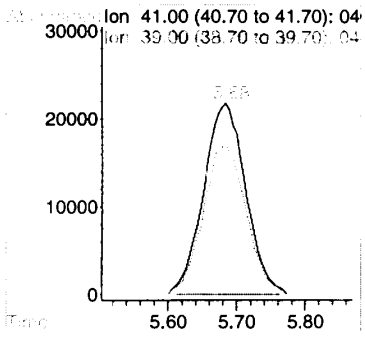


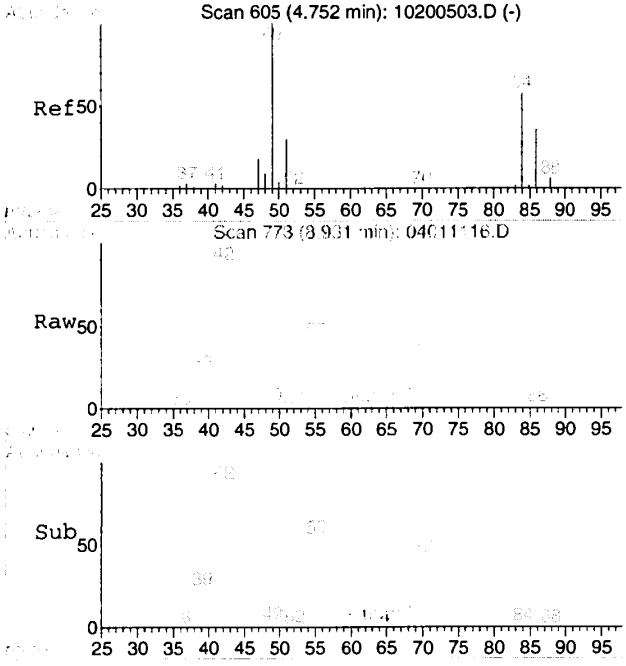


#2
Propylene
Concen: 2.22 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 41 Resp: 92560

Ion	Ratio	Lower	Upper
41	100		
39	80.1	57.6	86.4
42	62.0	54.0	81.0

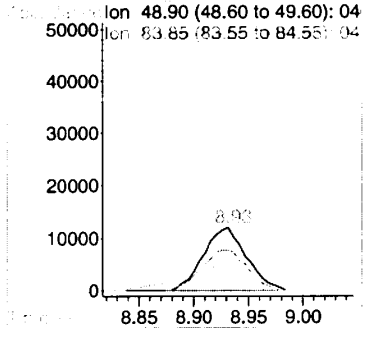


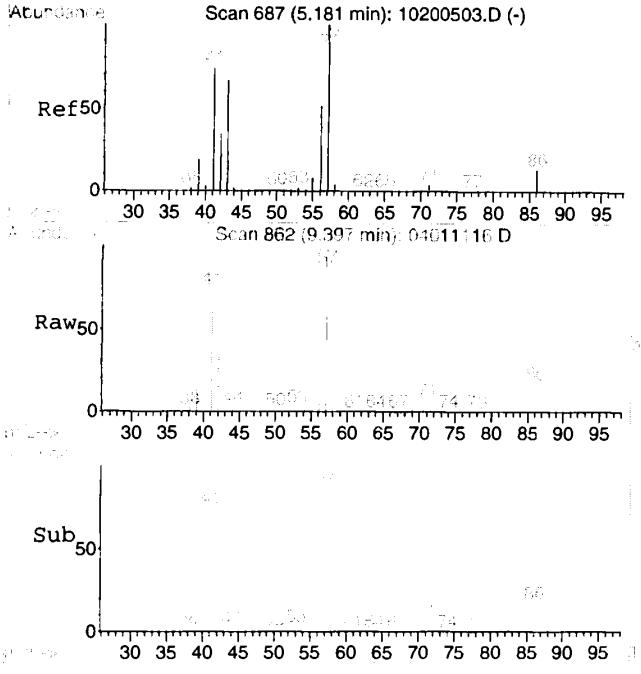


#17
Methylene chloride
Concen: 0.59 ppbv
RT: 8.93 min Scan# 773
Delta R.T. 0.01 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 49 Resp: 32953

Ion	Ratio	Lower	Upper
49	100		
84	76.6	65.4	98.2
86	46.6	42.3	63.5

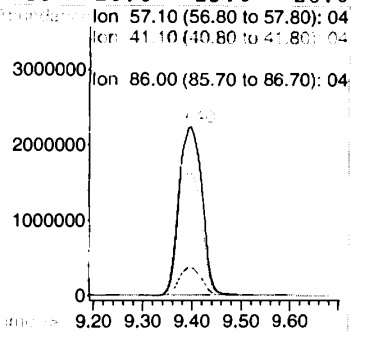


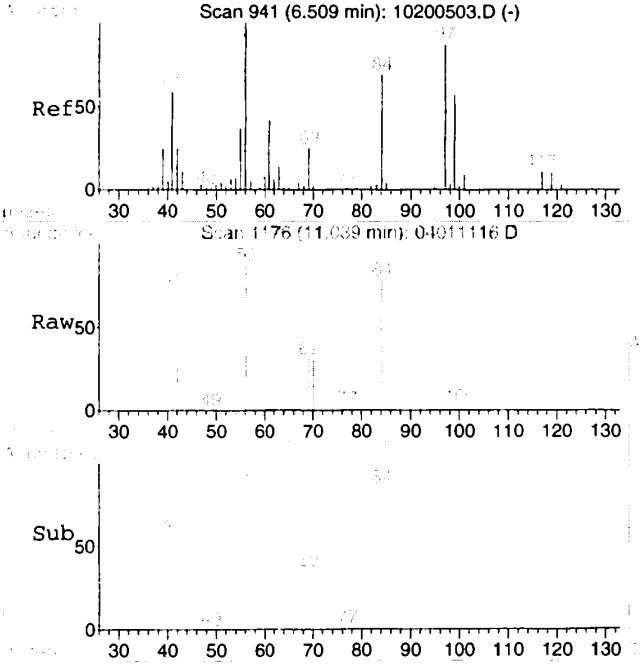


#20
n-Hexane
Concen: 91.12 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 57 Resp: 7397039

Ion	Ratio	Lower	Upper
57	100		
41	73.5	57.2	85.8
53	2.9	1.8	2.8#
86	16.4	13.4	20.0

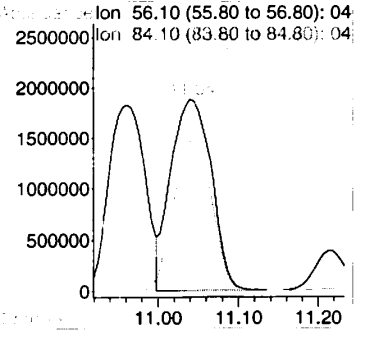


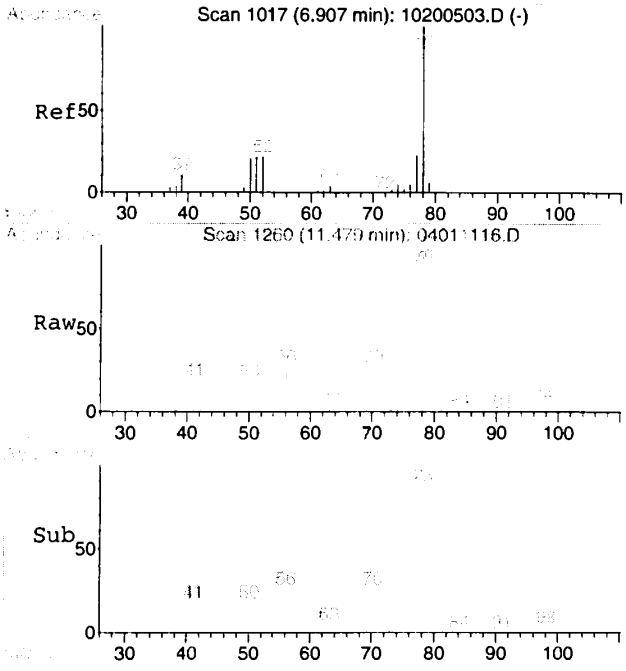


#29
Cyclohexane
Concen: 80.39 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 56 Resp: 6607514

Ion	Ratio	Lower	Upper
56	100		
84	74.7	72.4	108.6
41	69.8	43.8	65.8#

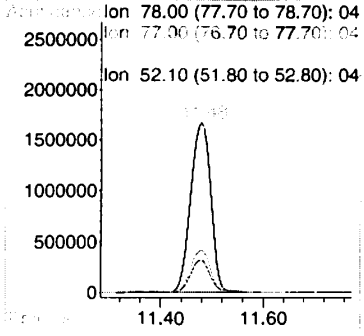


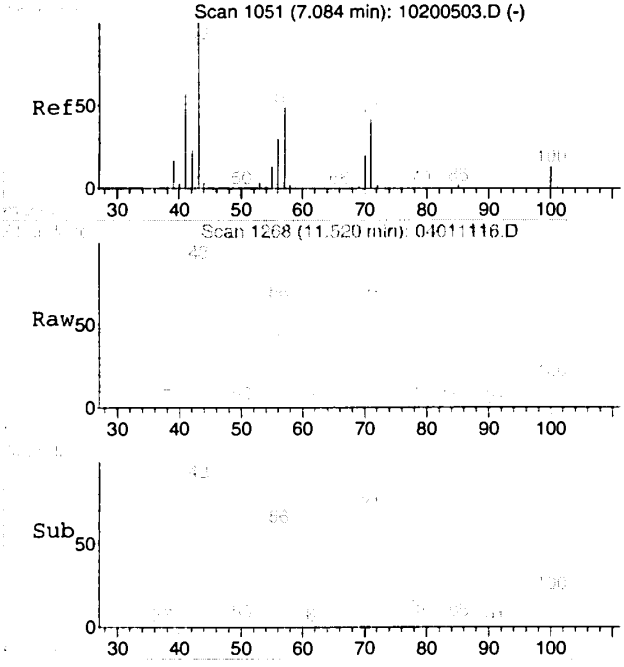


#31
Benzene
Concen: 33.78 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 78 Resp: 4641893

Ion	Ratio	Lower	Upper
78	100		
77	25.6	3.7	43.7
51	18.9	0.0	36.1
52	19.7	0.0	36.0

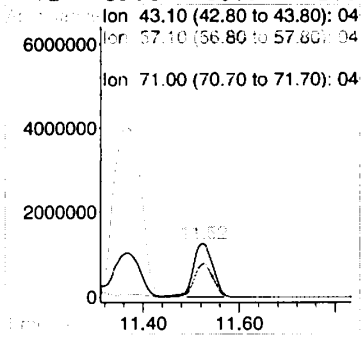


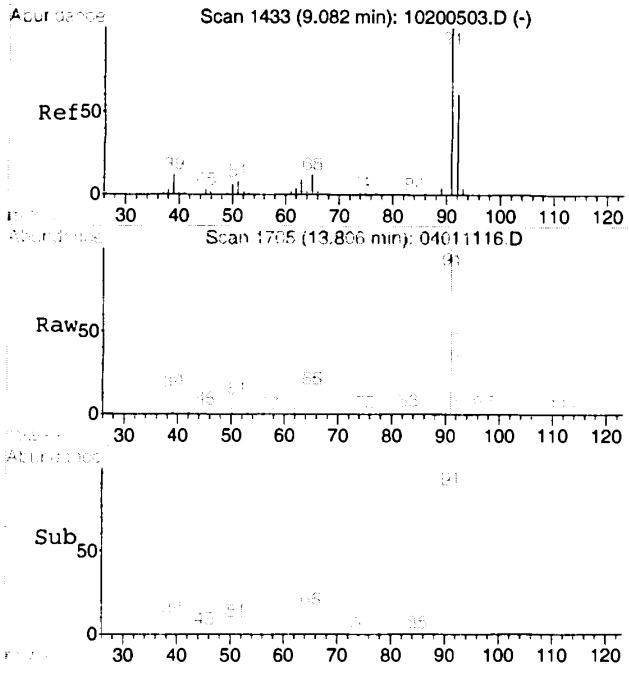


#34
Heptane
Concen: 40.70 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 43 Resp: 3677873

Ion	Ratio	Lower	Upper
43	100		
57	62.3	42.2	63.4
100	15.2	17.3	25.9#
71	59.4	48.3	72.5

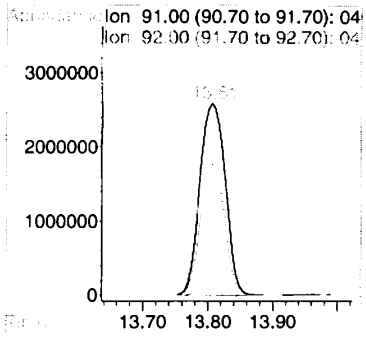


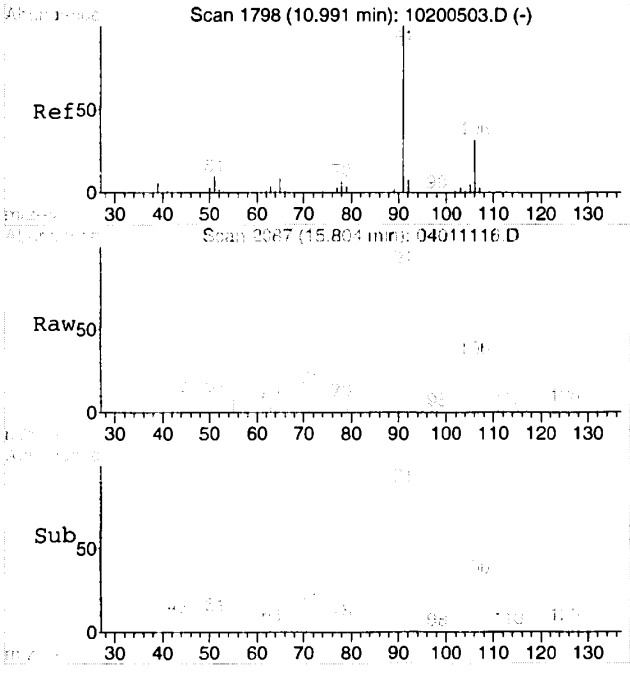


#41
Toluene
Concen: 50.44 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 91 Resp: 7111962

Ion	Ratio	Lower	Upper
91	100		
92	65.5	40.5	80.5
65	13.4	0.0	31.2

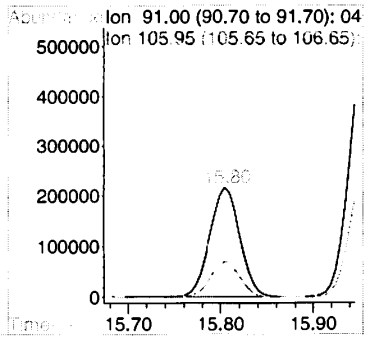


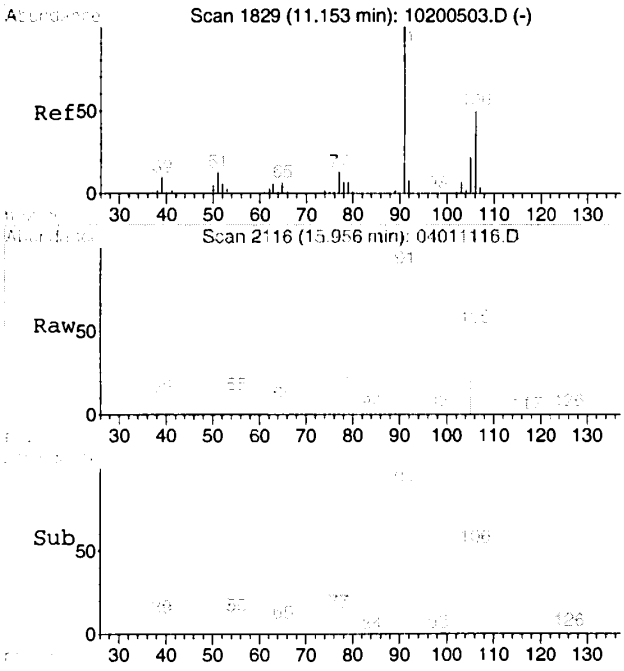


#50
Ethylbenzene
Concen: 2.48 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 91 Resp: 485738

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	11.0	0.0	33.1

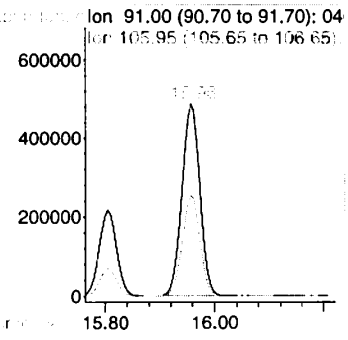


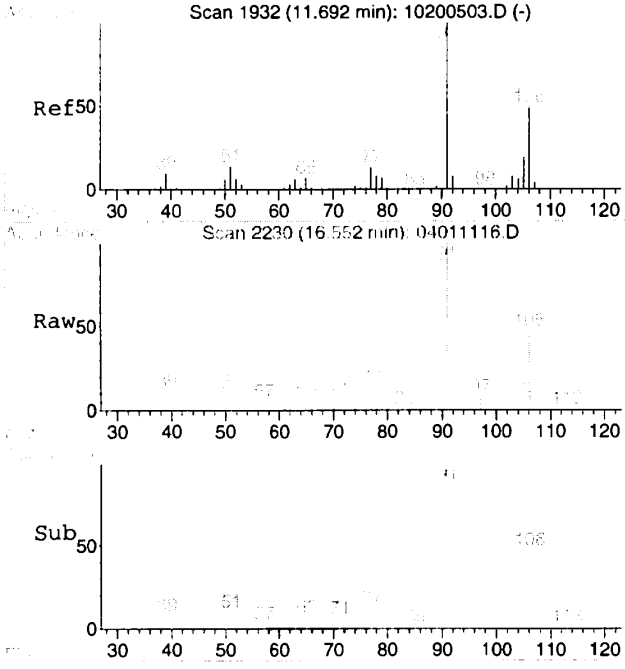


#51
m,p-Xylene
Concen: 7.43 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 91 Resp: 1127581

Ion	Ratio	Lower	Upper
91	100		
106	51.3	35.6	75.6
51	10.3	0.0	29.6

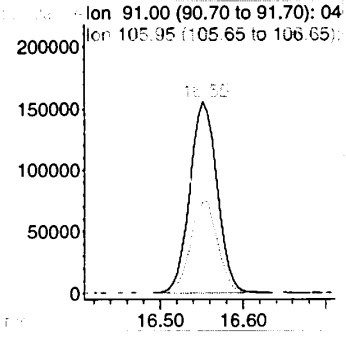




#52
o-Xylene
Concen: 2.43 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04011116.D
Acq: 1 Apr 2011 10:47 pm

Tgt Ion: 91 Resp: 359167

Ion	Ratio	Lower	Upper
91	100		
106	47.3	41.0	61.6
51	11.2	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	61	90	132	rBV	1447531	7836370	16.10%	1.241%
2	6.327	254	275	290	rBV3	372475	1574997	3.24%	0.249%
3	7.195	424	441	488	rBV	5452278	19282186	39.61%	3.053%
4	7.572	492	513	540	rBV	6543755	22413128	46.04%	3.549%
5	8.194	617	632	654	rVB	735511	2329313	4.79%	0.369%
6	8.775	726	743	761	rBV4	9553377	38903257	79.92%	6.160%
7	8.937	762	774	789	rVV	2117249	6312136	12.97%	1.000%
8	9.094	790	804	837	rVB	7186793	22932640	47.11%	3.631%
9	9.397	849	862	911	rVB	9152511	30026498	61.68%	4.755%
10	9.915	942	961	969	rBV	670277	1884069	3.87%	0.298%
11	10.009	969	979	1005	rVB	6209582	17986842	36.95%	2.848%
12	10.218	1005	1019	1047	rBV	8983891	30235618	62.11%	4.788%
13	10.694	1097	1110	1116	rBV	404433	1141248	2.34%	0.181%
14	10.814	1116	1133	1147	rVV2	6383744	20460418	42.03%	3.240%
15	10.961	1147	1161	1168	rVV	8663687	27108095	55.69%	4.293%
16	11.039	1168	1176	1197	rVV2	11288806	37848310	77.75%	5.993%
17	11.217	1198	1210	1219	rVV	2225970	6107658	12.55%	0.967%
18	11.369	1219	1239	1252	rVV	11218892	48677964	100.00%	7.708%
19	11.473	1252	1259	1264	rVV2	6509425	17656663	36.27%	2.796%
20	11.531	1264	1270	1317	rVB5	8438352	25433937	52.25%	4.027%
21	11.866	1323	1334	1348	rVB	1767119	4193600	8.61%	0.664%
22	12.017	1351	1363	1378	rVB	271678	699677	1.44%	0.111%
23	12.206	1386	1399	1407	rBV	2715740	6560958	13.48%	1.039%
24	12.289	1407	1415	1425	rVV	5443759	14641360	30.08%	2.318%
25	12.399	1426	1436	1457	rVB2	10642245	35957813	73.87%	5.694%
26	12.577	1457	1470	1474	rBV2	1297894	3497144	7.18%	0.554%
27	12.624	1475	1479	1495	rVB	1573919	3663568	7.53%	0.580%
28	12.802	1498	1513	1526	rBV2	7564745	22420375	46.06%	3.550%
29	12.943	1526	1540	1543	rBV5	4441847	12492942	25.66%	1.978%
30	12.995	1544	1550	1567	rVB	6782211	20192360	41.48%	3.197%
31	13.152	1569	1580	1597	rBV2	2688535	8880955	18.24%	1.406%
32	13.273	1597	1603	1608	rBV2	325431	626182	1.29%	0.099%
33	13.346	1608	1617	1632	rVB	3956600	10373640	21.31%	1.643%
34	13.576	1649	1661	1668	rBV2	3535066	10005326	20.55%	1.584%
35	13.675	1674	1680	1694	rVB	3185217	7313630	15.02%	1.158%
36	13.806	1694	1705	1721	rVB	7348622	21526322	44.22%	3.409%
37	13.937	1721	1730	1741	rBV4	298191	881449	1.81%	0.140%
38	14.083	1741	1758	1770	rBV3	1915481	5894356	12.11%	0.933%
39	14.203	1770	1781	1790	rVB6	686739	2109327	4.33%	0.334%
40	14.287	1790	1797	1805	rBV	647150	1314888	2.70%	0.208%
41	14.460	1821	1830	1837	rBV	453247	1025826	2.11%	0.162%
42	14.533	1837	1844	1853	rVV3	305433	768727	1.58%	0.122%
43	14.690	1865	1874	1887	rBV2	328344	869637	1.79%	0.138%

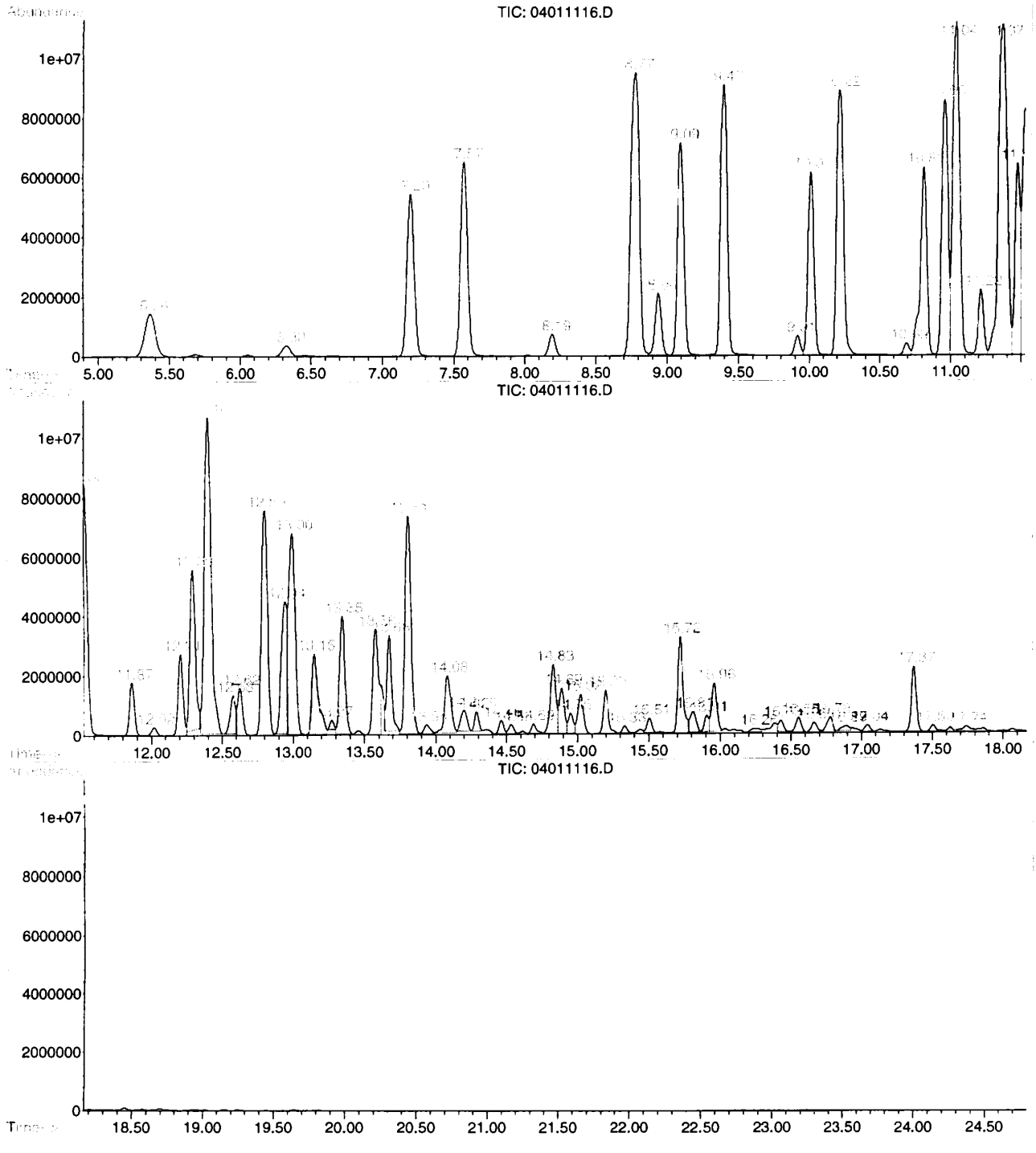
44	14.831	1887	1901	1907	rVV	2304769	6390374	13.13%	1.012%
45	14.889	1907	1912	1919	rVV	1530236	3759621	7.72%	0.595%
46	14.951	1919	1924	1930	rVV2	687690	1705729	3.50%	0.270%
47	15.025	1930	1938	1956	rVB2	1329531	3686624	7.57%	0.584%
48	15.197	1959	1971	1989	rBV	1471875	3655018	7.51%	0.579%
49	15.333	1989	1997	2006	rBV	247037	573358	1.18%	0.091%
50	15.506	2022	2030	2039	rVB	490398	1168614	2.40%	0.185%
51	15.720	2059	2071	2082	rBV	3206981	8376965	17.21%	1.327%
52	15.809	2083	2088	2099	rVV2	693497	1925150	3.95%	0.305%
53	15.909	2099	2107	2110	rVV	554002	1219894	2.51%	0.193%
54	15.961	2110	2117	2127	rVV	1611249	4126135	8.48%	0.653%
55	16.259	2159	2174	2180	rBV6	131902	607344	1.25%	0.096%
56	16.426	2202	2206	2217	rVB	384651	882665	1.81%	0.140%
57	16.552	2219	2230	2241	rVB	493623	1303641	2.68%	0.206%
58	16.662	2241	2251	2260	rBV3	326589	897306	1.84%	0.142%
59	16.777	2261	2273	2282	rVB5	481749	1413181	2.90%	0.224%
60	16.892	2282	2295	2301	rBV8	189853	719577	1.48%	0.114%
61	17.043	2315	2324	2333	rVB2	226050	594144	1.22%	0.094%
62	17.373	2366	2387	2401	rBV	2174669	5273709	10.83%	0.835%
63	17.504	2403	2412	2420	rBV2	220740	551515	1.13%	0.087%
64	17.739	2442	2457	2470	rBV4	152510	615138	1.26%	0.097%

Sum of corrected areas: 631507111

04011116.D 031611V1.M Thu Apr 14 11:59:58 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011116.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 10:47 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-010B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 13
Quant File :031611V1.RES (RTE Integrator)



04011116.D 031611V1.M Thu Apr 14 11:59:58 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	11.78 ppbv	19282200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 2 Pentane $$ n-Pentane $$ Skelly Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	13.69 ppbv	22413100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	80
4	Butane, 2-methyl-	72	C5H12	000078-78-4	38
5	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	36

****

Peak Number 3 Pentane, 2-methyl- $$ Isohexan Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	23.77 ppbv	38903300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	81
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	74
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
5	Pentane, 2-bromo- $$ 2-Bromopentane	150	C5H11Br	000107-81-3	39

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	14.01 ppbv	22932600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	40

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	10.99 ppbv	17986800	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	18.47 ppbv	30235600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	80
5	Cyclohexane	84	C6H12	000110-82-7	78

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	16.56 ppbv	27108100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	145.10 ppbv	48678000	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	83
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
5	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	78

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	19.56 ppbv	6560960	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	78
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	52
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	43.64 ppbv	14641400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
4	1-Octanol, 3,7-dimethyl-	158	C10H22O	000106-21-8	43
5	1-Fluorononane $$ n-Nonyl fluoride	146	C9H19F	000463-18-3	37

****

Peak Number 11 Cyclohexane, methyl- $$ Cycloh Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	107.18 ppbv	35957800	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	64
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	53
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	53

****

Peak Number 12 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	10.42 ppbv	3497140	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	90
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	78
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	10.92 ppbv	3663570	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	86
2	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	64
3	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	56
4	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	47
5	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	45

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	66.83 ppbv	22420400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	72
4	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64
5	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	56

****

Peak Number 15 Heptane, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	37.24 ppbv	12492900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	64
3	Hexane, 3-ethyl-4-methyl- $$ 3-Ethy	128	C9H20	003074-77-9	59
4	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	59
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	50

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	60.19 ppbv	20192400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	50
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
3	Octane, 4-methyl-	128	C9H20	002216-34-4	40
4	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	40
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	40

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	26.47 ppbv	8880960	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	43

****

Peak Number 18 Hexane, 2,2,5-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	30.92 ppbv	10373600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011116.D Vial: 13
Acq On : 1 Apr 2011 10:47 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	29.82 ppbv	10005300	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 20 Octane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	21.80 ppbv	7313630	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 10:47 pm
Data File: C:\HPCHEM\1\DATA\040111\04011116.D
Name: 1103389-010B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Butane, 2-methyl-	7.20	11.8	ppbv	19282200	ISTD01	10.77	20460400	12.5
Pentane $$ n-Pentane	7.57	13.7	ppbv	22413100	ISTD01	10.77	20460400	12.5
Pentane, 2-methyl- $	8.77	23.8	ppbv	38903300	ISTD01	10.77	20460400	12.5
Pentane, 3-methyl-	9.09	14.0	ppbv	22932600	ISTD01	10.77	20460400	12.5
Pentane, 2,4-dimethy	10.01	11.0	ppbv	17986800	ISTD01	10.77	20460400	12.5
Cyclopentane, methyl	10.22	18.5	ppbv	30235600	ISTD01	10.77	20460400	12.5
Pentane, 2,3-dimethy	10.96	16.6	ppbv	27108100	ISTD01	10.77	20460400	12.5
Hexane, 2,2-dimethyl	11.37	145.1	ppbv	48678000	ISTD02	11.87	4193600	12.5
Hexane, 2,5-dimethyl	12.21	19.6	ppbv	6560960	ISTD02	11.87	4193600	12.5
Hexane, 2,4-dimethyl	12.29	43.6	ppbv	14641400	ISTD02	11.87	4193600	12.5
Cyclohexane, methyl-	12.40	107.2	ppbv	35957800	ISTD02	11.87	4193600	12.5
Cyclopentane, ethyl-	12.58	10.4	ppbv	3497140	ISTD02	11.87	4193600	12.5
Cyclopentane, 1,2,4-	12.62	10.9	ppbv	3663570	ISTD02	11.87	4193600	12.5
Pentane, 2,3,4-trime	12.80	66.8	ppbv	22420400	ISTD02	11.87	4193600	12.5
Heptane, 4-methyl-	12.94	37.2	ppbv	12492900	ISTD02	11.87	4193600	12.5
Decane, 3,3,4-trimet	13.00	60.2	ppbv	20192400	ISTD02	11.87	4193600	12.5
Heptane, 3-methyl-	13.15	26.5	ppbv	8880960	ISTD02	11.87	4193600	12.5
Hexane, 2,2,5-trimet	13.35	30.9	ppbv	10373600	ISTD02	11.87	4193600	12.5
Cyclohexane, 1,3-dim	13.58	29.8	ppbv	10005300	ISTD02	11.87	4193600	12.5
Octane	13.68	21.8	ppbv	7313630	ISTD02	11.87	4193600	12.5

04011116.D 031611V1.M Thu Apr 14 11:59:59 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:10 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

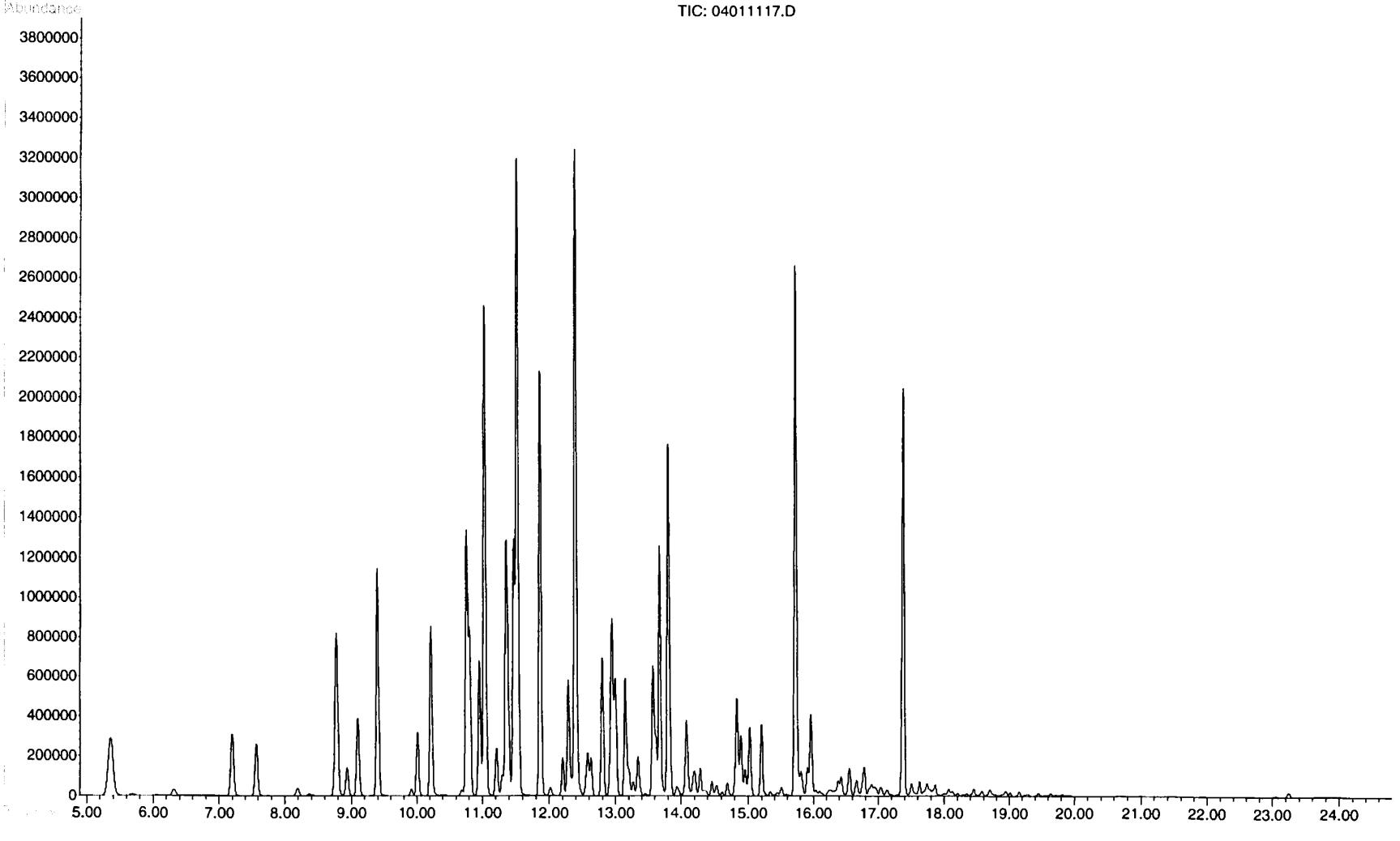
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	628682	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2257892	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1667927	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	984599	11.78	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 94.24%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	49082	0.78	ppbv		91
20) n-Hexane	9.40	57	731816	7.97	ppbv		96
29) Cyclohexane	11.04	56	1113338	11.98	ppbv	#	75
31) Benzene	11.47	78	1105032	7.11	ppbv		96
34) Heptane	11.52	43	1482392	13.59	ppbv	#	95
41) Toluene	13.81	91	1602359	9.42	ppbv		99
51) m,p-Xylene	15.96	91	278566	1.86	ppbv		92
52) o-Xylene	16.55	91	102219	0.70	ppbv	#	88

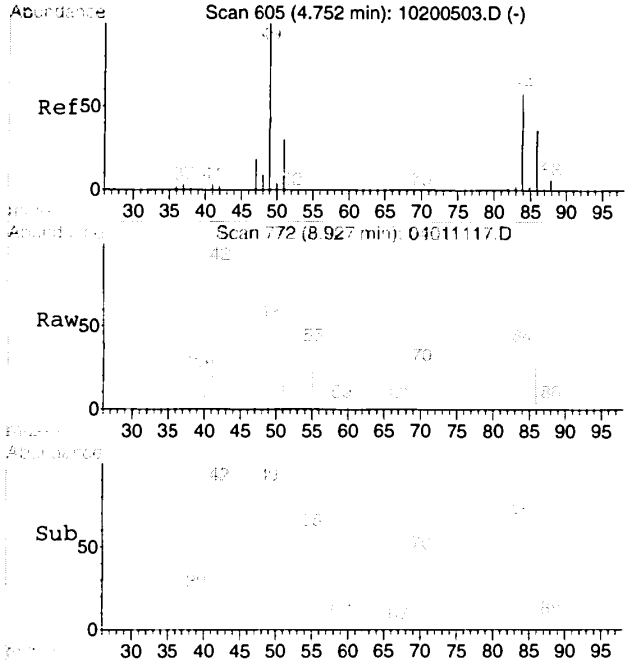
(#) = qualifier out of range (m) = manual integration
04011117.D 031611V1.M Thu Apr 14 12:00:06 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:10 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

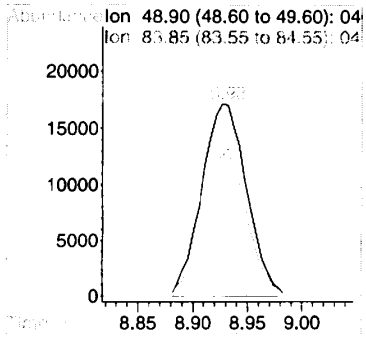


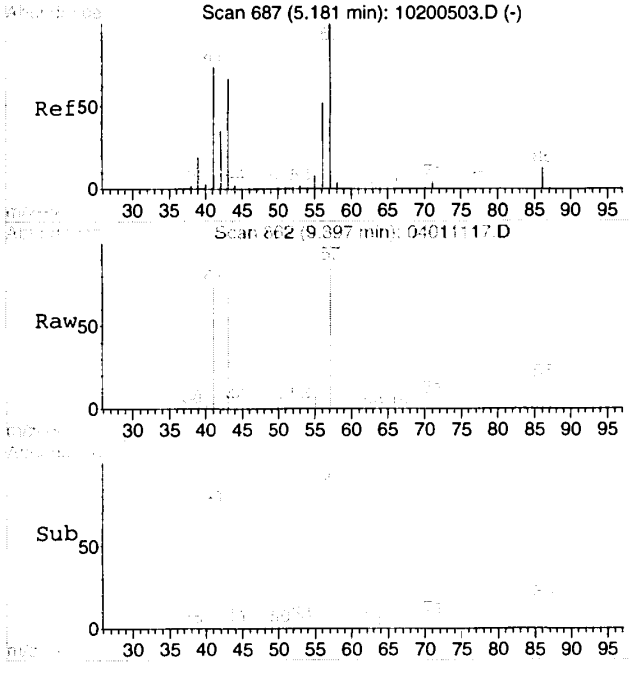


#17
Methylene chloride
Concen: 0.78 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 49 Resp: 49082

Ion	Ratio	Lower	Upper
49	100		
84	73.9	65.4	98.2
86	47.2	42.3	63.5

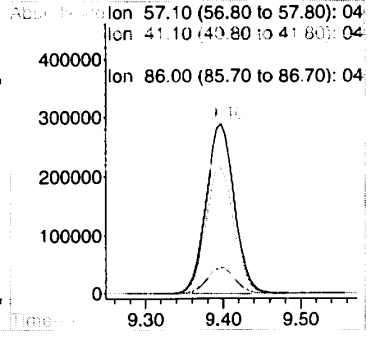


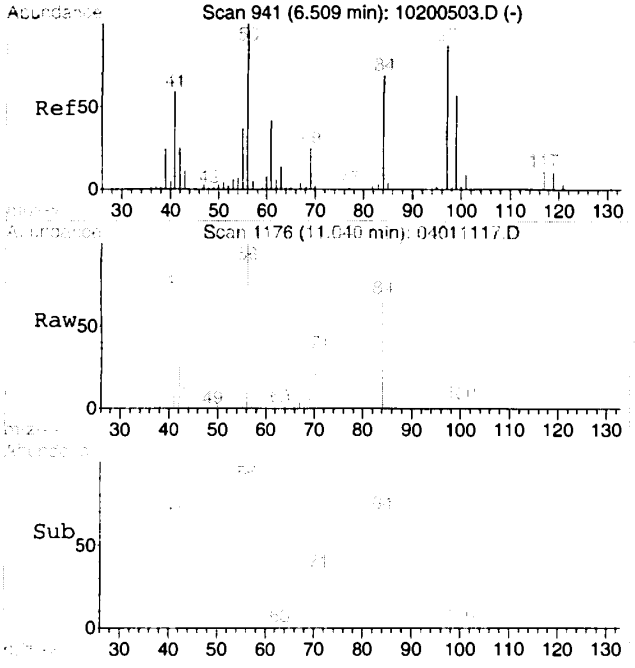


#20
n-Hexane
Concen: 7.97 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 57 Resp: 731816

Ion	Ratio	Lower	Upper
57	100		
41	75.5	57.2	85.8
53	2.3	1.8	2.8
86	15.4	13.4	20.0

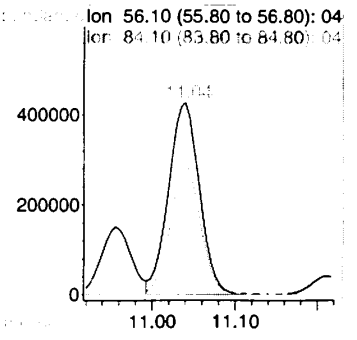


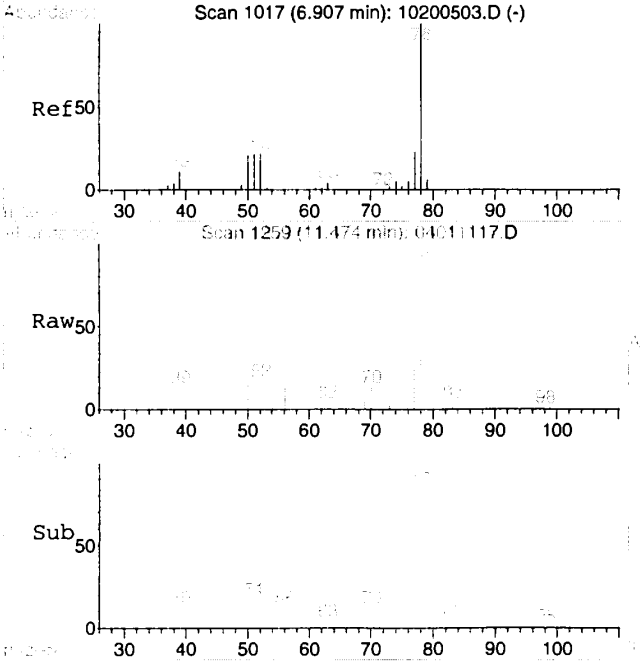


#29
Cyclohexane
Concen: 11.98 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 56 Resp: 1113338

Ion	Ratio	Lower	Upper
56	100		
84	67.1	72.4	108.6#
41	72.5	43.8	65.8#

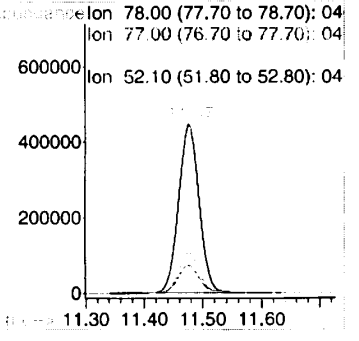


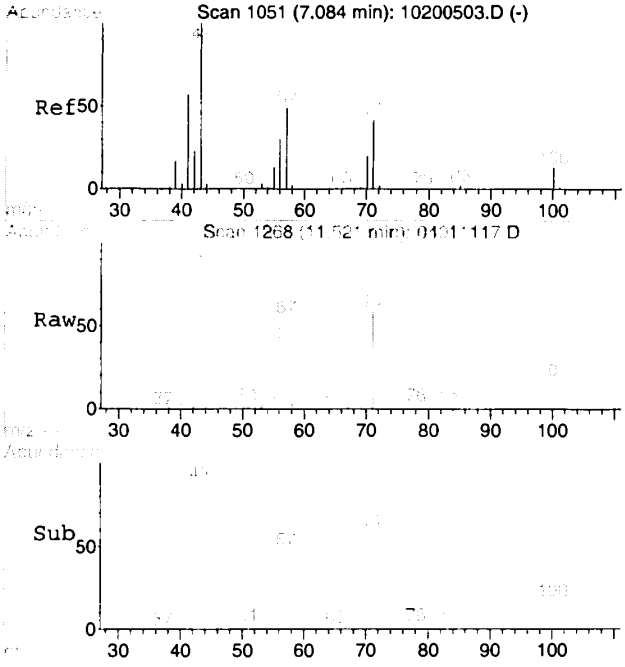


#31
Benzene
Concen: 7.11 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 78 Resp: 1105032

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	19.7	0.0	36.1
52	17.6	0.0	36.0

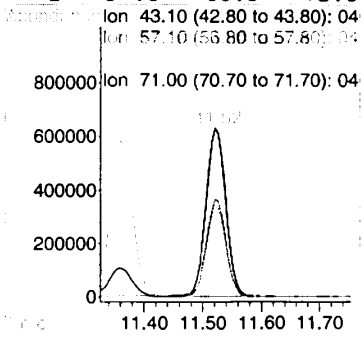


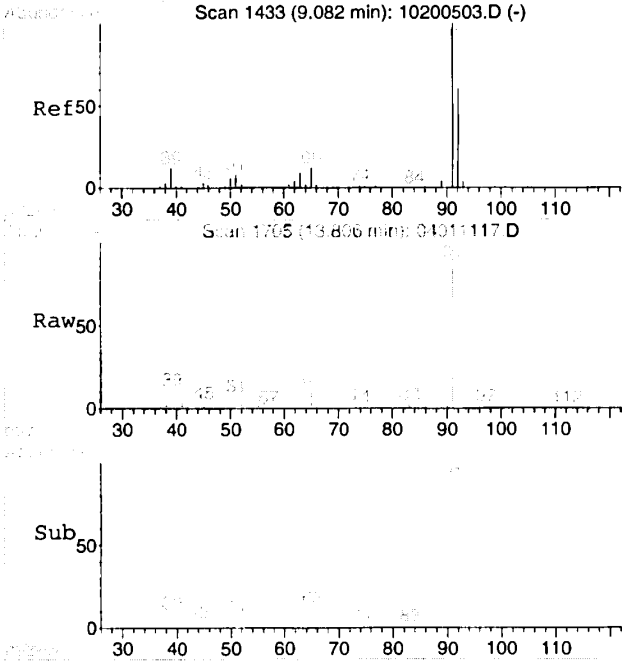


#34
Heptane
Concen: 13.59 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 43 Resp: 1482392

Ion	Ratio	Lower	Upper
43	100		
57	55.6	42.2	63.4
100	16.2	17.3	25.9#
71	57.5	48.3	72.5

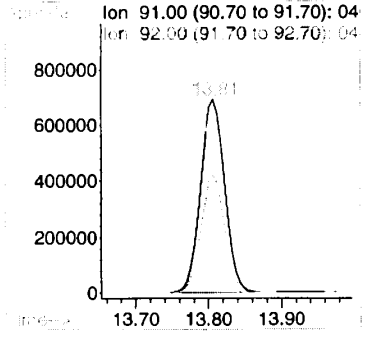


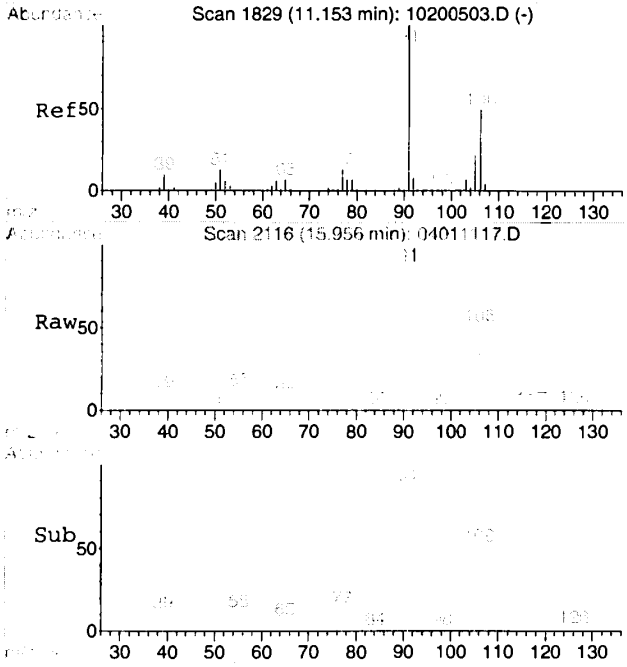


#41
Toluene
Concen: 9.42 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 91 Resp: 1602359

Ion	Ratio	Lower	Upper
91	100		
92	60.0	40.5	80.5
65	11.6	0.0	31.2

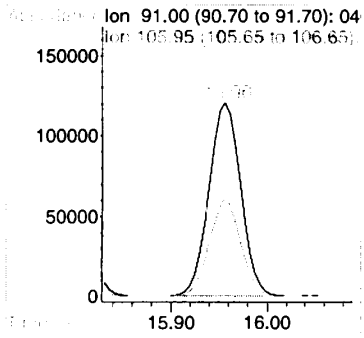


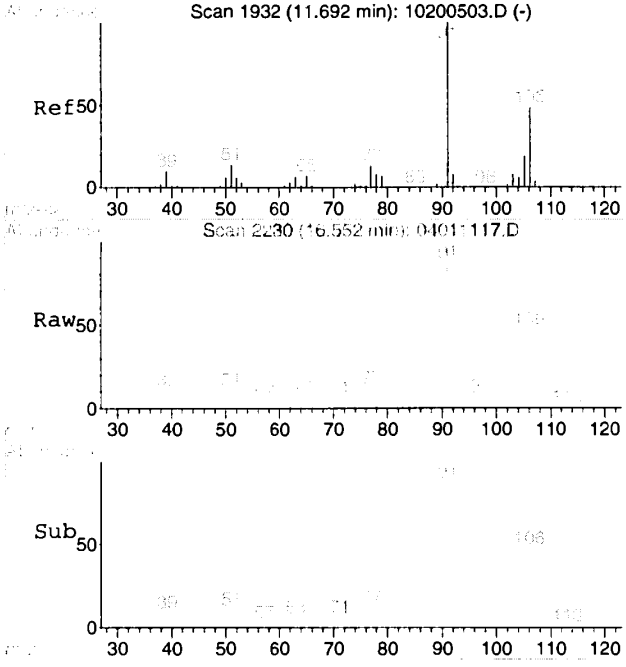


#51
m,p-Xylene
Concen: 1.86 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 91 Resp: 278566

Ion	Ratio	Lower	Upper
91	100		
106	49.4	35.6	75.6
51	10.6	0.0	29.6

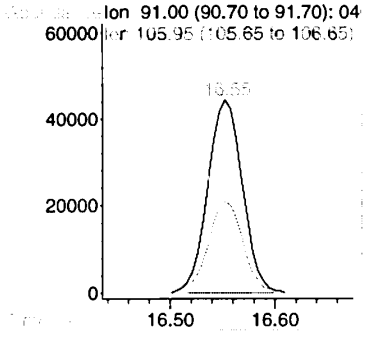




#52
o-Xylene
Concen: 0.70 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04011117.D
Acq: 1 Apr 2011 11:28 pm

Tgt Ion: 91 Resp: 102219

Ion	Ratio	Lower	Upper
91	100		
106	47.2	41.0	61.6
51	11.8	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.360	65	90	122	rBV	287880	1578293	18.86%	1.642%
2	6.317	259	273	287	rBV5	33762	139939	1.67%	0.146%
3	7.196	425	441	463	rVB	311071	1066613	12.75%	1.110%
4	7.572	498	513	531	rBV2	262551	822624	9.83%	0.856%
5	8.189	621	631	643	rBB2	40901	133232	1.59%	0.139%
6	8.775	725	743	763	rBV	823687	2682974	32.06%	2.792%
7	8.932	763	773	790	rVB3	144168	422384	5.05%	0.440%
8	9.094	791	804	821	rBB	393724	1111353	13.28%	1.156%
9	9.397	850	862	881	rBV	1147963	2902350	34.68%	3.020%
10	9.915	951	961	968	rBV	36209	94547	1.13%	0.098%
11	10.009	968	979	993	rVB	322023	853752	10.20%	0.888%
12	10.219	1007	1019	1042	rBB	858682	2290114	27.37%	2.383%
13	10.762	1113	1123	1129	rBV	1320412	3543320	42.34%	3.687%
14	10.956	1148	1160	1167	rBV	679304	1776337	21.23%	1.848%
15	11.034	1167	1175	1196	rVB2	2466729	6423141	76.75%	6.684%
16	11.212	1197	1209	1218	rBV	237571	630297	7.53%	0.656%
17	11.296	1218	1225	1228	rVV	103574	229959	2.75%	0.239%
18	11.364	1228	1238	1250	rVV	1288923	4133663	49.40%	4.301%
19	11.474	1250	1259	1262	rVV2	1293073	2923798	34.94%	3.042%
20	11.526	1262	1269	1286	rVB2	3198750	8240233	98.47%	8.574%
21	11.861	1322	1333	1352	rBV	2137537	5042119	60.25%	5.247%
22	12.012	1352	1362	1372	rVB2	43934	113336	1.35%	0.118%
23	12.201	1388	1398	1405	rBV	193206	461349	5.51%	0.480%
24	12.284	1405	1414	1424	rVV2	584578	1572717	18.79%	1.636%
25	12.394	1425	1435	1456	rVV	3251501	8368380	100.00%	8.708%
26	12.572	1457	1469	1475	rVV3	217639	668222	7.99%	0.695%
27	12.624	1475	1479	1491	rVB2	193314	428443	5.12%	0.446%
28	12.797	1500	1512	1526	rBV3	697211	1796487	21.47%	1.869%
29	12.949	1526	1541	1546	rBV2	894310	2577490	30.80%	2.682%
30	13.147	1568	1579	1588	rBV	594598	1588871	18.99%	1.653%
31	13.268	1597	1602	1608	rVV2	47074	95871	1.15%	0.100%
32	13.341	1608	1616	1631	rVB	196976	557935	6.67%	0.581%
33	13.576	1649	1661	1673	rBV2	653744	2240943	26.78%	2.332%
34	13.676	1673	1680	1694	rVV	1258976	2831597	33.84%	2.946%
35	13.806	1694	1705	1721	rVB	1768582	4484734	53.59%	4.667%
36	13.932	1721	1729	1743	rBV5	43729	135253	1.62%	0.141%
37	14.078	1743	1757	1769	rBV3	379157	1034140	12.36%	1.076%
38	14.204	1770	1781	1790	rVB4	108775	337632	4.03%	0.351%
39	14.288	1790	1797	1804	rBV2	125349	266260	3.18%	0.277%
40	14.460	1821	1830	1836	rBV	74389	170823	2.04%	0.178%
41	14.528	1836	1843	1852	rVV5	54407	146040	1.75%	0.152%
42	14.690	1866	1874	1887	rVV2	66715	169286	2.02%	0.176%
43	14.832	1887	1901	1907	rVV	491672	1338395	15.99%	1.393%

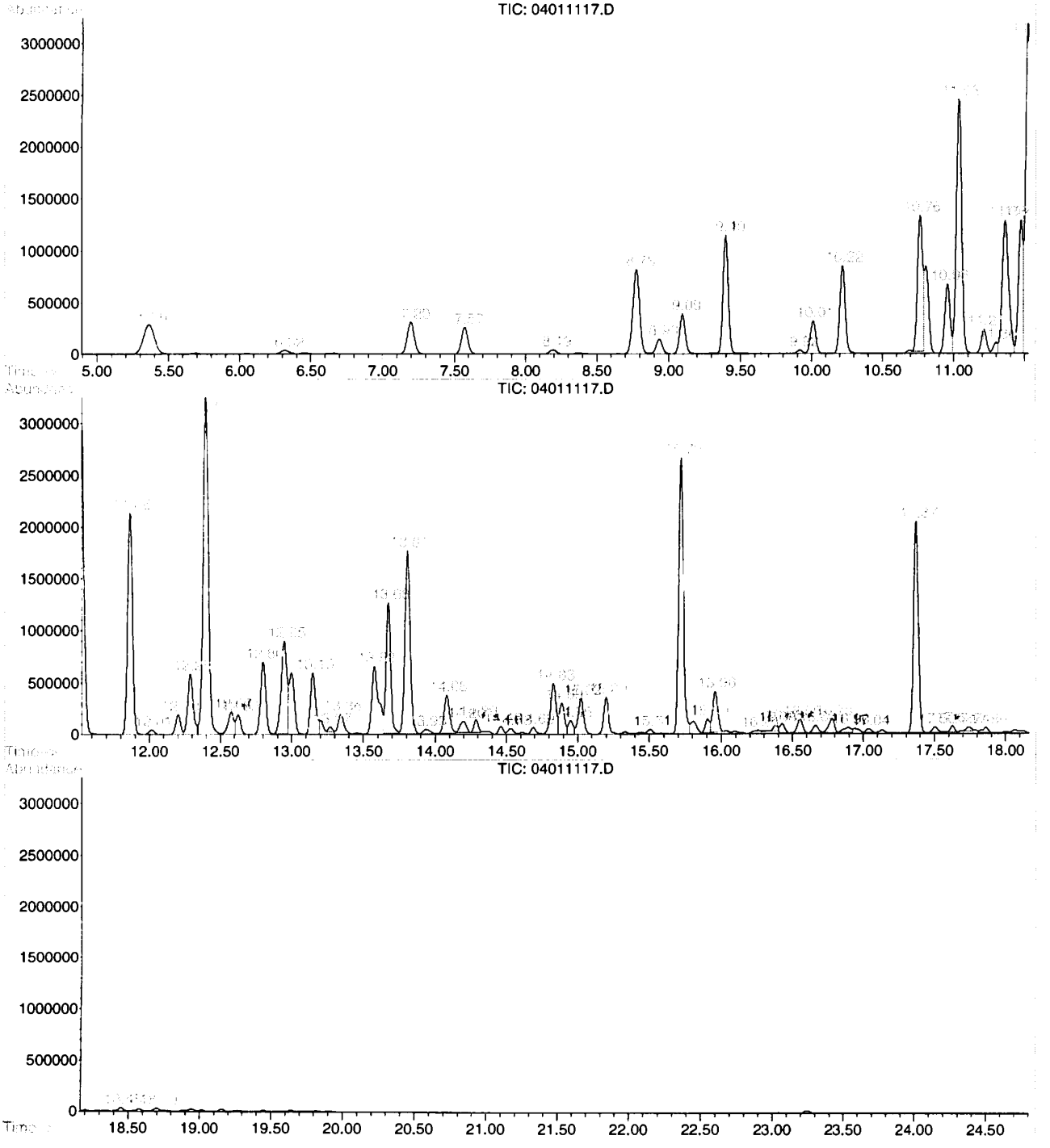
44	14.889	1907	1912	1919	rVV	305993	747271	8.93%	0.778%
45	14.952	1919	1924	1929	rVV2	134273	316801	3.79%	0.330%
46	15.020	1929	1937	1952	rVB2	347446	923037	11.03%	0.960%
47	15.198	1959	1971	1988	rBV2	360711	872839	10.43%	0.908%
48	15.506	2023	2030	2039	rVB	43660	104457	1.25%	0.109%
49	15.721	2055	2071	2083	rBV	2667794	6326049	75.59%	6.583%
50	15.904	2098	2106	2110	rBV2	134468	296012	3.54%	0.308%
51	15.956	2110	2116	2127	rVB	393650	973482	11.63%	1.013%
52	16.254	2158	2173	2179	rBV8	32657	128775	1.54%	0.134%
53	16.380	2190	2197	2201	rBV2	54149	116070	1.39%	0.121%
54	16.427	2202	2206	2217	rVB2	92382	203840	2.44%	0.212%
55	16.552	2219	2230	2241	rVB	137594	364300	4.35%	0.379%
56	16.662	2241	2251	2261	rBV3	76456	213022	2.55%	0.222%
57	16.777	2261	2273	2282	rVB3	136918	404579	4.83%	0.421%
58	16.897	2282	2296	2301	rBV8	50568	194525	2.32%	0.202%
59	17.039	2315	2323	2332	rVB6	40130	105975	1.27%	0.110%
60	17.373	2374	2387	2401	rBV	2045740	4687418	56.01%	4.877%
61	17.504	2403	2412	2422	rBV5	57833	146987	1.76%	0.153%
62	17.624	2428	2435	2442	rBV2	65515	127289	1.52%	0.132%
63	17.739	2449	2457	2463	rBV3	40402	97027	1.16%	0.101%
64	17.865	2470	2481	2490	rVB6	54069	156429	1.87%	0.163%
65	18.451	2580	2593	2600	rBV2	34289	84337	1.01%	0.088%
66	18.697	2630	2640	2653	rVV5	29241	87166	1.04%	0.091%

Sum of corrected areas: 96102933

04011117.D 031611V1.M Thu Apr 14 12:00:14 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011117.D
Operator : Michael Truchan/Rachel Hill
Acquired : 1 Apr 2011 11:28 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-011B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 14
Quant File :031611V1.RES (RTE Integrator)



04011117.D 031611V1.M Thu Apr 14 12:00:14 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	5.57 ppbv	1578290	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	3.76 ppbv	1066610	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	1-Butene	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	2.90 ppbv	822624	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.78	9.46 ppbv	2682970	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

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Peak Number 5 Pentane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	3.92 ppbv	1111350	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64

****

Peak Number 6 Pentane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	3.01 ppbv	853752	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	8.08 ppbv	2290110	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	58
5	Aziridine, 1-(2-buten-2-yl)-	97	C6H11N	000000-00-0	50

****

Peak Number 8 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	6.27 ppbv	1776340	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 9 Cyclopentane, 1,1-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.22 ppbv	630297	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	53
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	46
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	10.25 ppbv	4133660	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 11 Hexane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.90 ppbv	1572720	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	46
2	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
3	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	38
4	Cyclobutane, 1,2-diethyl-	112	C8H16	061141-83-1	38
5	1-Pentanol, 2,2-dimethyl-	116	C7H16O	002370-12-9	37

****

Peak Number 12 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	20.75 ppbv	8368380	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multip1r: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 1-Hexene, 4-ethyl- $$ 4-Ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	4.45 ppbv	1796490	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 4-ethyl- $$ 4-Ethyl-1-hex	112	C8H16	016746-85-3	80
2	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
3	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	70
4	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	53
5	Octane, 3-methyl-6-methylene-	140	C10H20	074630-07-2	47

****

Peak Number 14 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	6.39 ppbv	2577490	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	87
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	83
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	47

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.94 ppbv	1588870	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	47

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	5.56 ppbv	2240940	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 17 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	7.02 ppbv	2831600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72

****

Peak Number 18 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	2.04 ppbv	1034140	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011117.D Vial: 14
Acq On : 1 Apr 2011 11:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, ethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	2.64 ppbv	1338400	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93

****

Peak Number 20 Heptane, 2,4-dimethyl- $$ 2,4- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	1.82 ppbv	923037	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	62
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	62
3	Octane	114	C8H18	000111-65-9	59
4	Octane, 4-methyl-	128	C9H20	002216-34-4	58
5	Hexane, 2,3,4-trimethyl- $$ 2,3,4-T	128	C9H20	000921-47-1	53

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 1 Apr 2011 11:28 pm
Data File: C:\HPCHEM\1\DATA\040111\04011117.D
Name: 1103389-011B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	5.6	ppbv	1578290	ISTD01	10.76	3543320	12.5
Butane, 2-methyl-	7.20	3.8	ppbv	1066610	ISTD01	10.76	3543320	12.5
Pentane $$ n-Pentane	7.57	2.9	ppbv	822624	ISTD01	10.76	3543320	12.5
Pentane, 2-methyl-	8.78	9.5	ppbv	2682970	ISTD01	10.76	3543320	12.5
Pentane, 3-methyl-	9.09	3.9	ppbv	1111350	ISTD01	10.76	3543320	12.5
Pentane, 2,4-dimethy	10.01	3.0	ppbv	853752	ISTD01	10.76	3543320	12.5
Cyclopentane, methyl	10.22	8.1	ppbv	2290110	ISTD01	10.76	3543320	12.5
Pentane, 2,3-dimethy	10.96	6.3	ppbv	1776340	ISTD01	10.76	3543320	12.5
Cyclopentane, 1,1-di	11.21	2.2	ppbv	630297	ISTD01	10.76	3543320	12.5
Butane, 2,2,3,3-tetr	11.36	10.2	ppbv	4133660	ISTD02	11.87	5042120	12.5
Hexane, 2,4-dimethyl	12.28	3.9	ppbv	1572720	ISTD02	11.87	5042120	12.5
Cyclohexane, methyl-	12.39	20.7	ppbv	8368380	ISTD02	11.87	5042120	12.5
1-Hexene, 4-ethyl- $	12.80	4.5	ppbv	1796490	ISTD02	11.87	5042120	12.5
Hexane, 2,5-dimethyl	12.95	6.4	ppbv	2577490	ISTD02	11.87	5042120	12.5
Heptane, 3-methyl-	13.15	3.9	ppbv	1588870	ISTD02	11.87	5042120	12.5
Cyclohexane, 1,3-dim	13.58	5.6	ppbv	2240940	ISTD02	11.87	5042120	12.5
Octane	13.68	7.0	ppbv	2831600	ISTD02	11.87	5042120	12.5
Cyclohexane, 1,2-dim	14.08	2.0	ppbv	1034140	ISTD03	15.72	6326050	12.5
Cyclohexane, ethyl-	14.83	2.6	ppbv	1338400	ISTD03	15.72	6326050	12.5
Heptane, 2,4-dimethy	15.02	1.8	ppbv	923037	ISTD03	15.72	6326050	12.5

04011117.D 031611V1.M Thu Apr 14 12:00:15 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:11 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	587869	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2101568	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1657167	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1039393	12.51	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.08%				
Target Compounds							Qvalue
2) Propylene x	5.68	41	33896	0.77	ppbv	#	76
11) Ethanol x	7.75	45	6345	0.65	ppbv	#	68
14) Acetone x	8.36	43	164236	2.27	ppbv	#	97
17) Methylene chloride x	8.92	49	216291	3.65	ppbv		92
20) n-Hexane x	9.39	57	1552432	18.08	ppbv		99
29) Cyclohexane	11.04	56	2062384	23.73	ppbv	#	80
31) Benzene	11.48	78	3762326	25.89	ppbv		97
34) Heptane x	11.52	43	1761220	17.35	ppbv	#	93
41) Toluene	13.81	91	4690402	29.61	ppbv		97
50) Ethylbenzene x	15.81	91	398001	2.07	ppbv		95
51) m,p-Xylene x	15.96	91	1253676	8.40	ppbv		94
52) o-Xylene x	16.55	91	440781	3.03	ppbv	#	87
57) 4-Ethyltoluene x	17.74	105	142522	0.82	ppbv		100
58) 1,3,5-Trimethylbenzene x	17.86	105	105324	0.74	ppbv		92
59) 1,2,4-Trimethylbenzene x	18.45	105	153578	1.20	ppbv		97

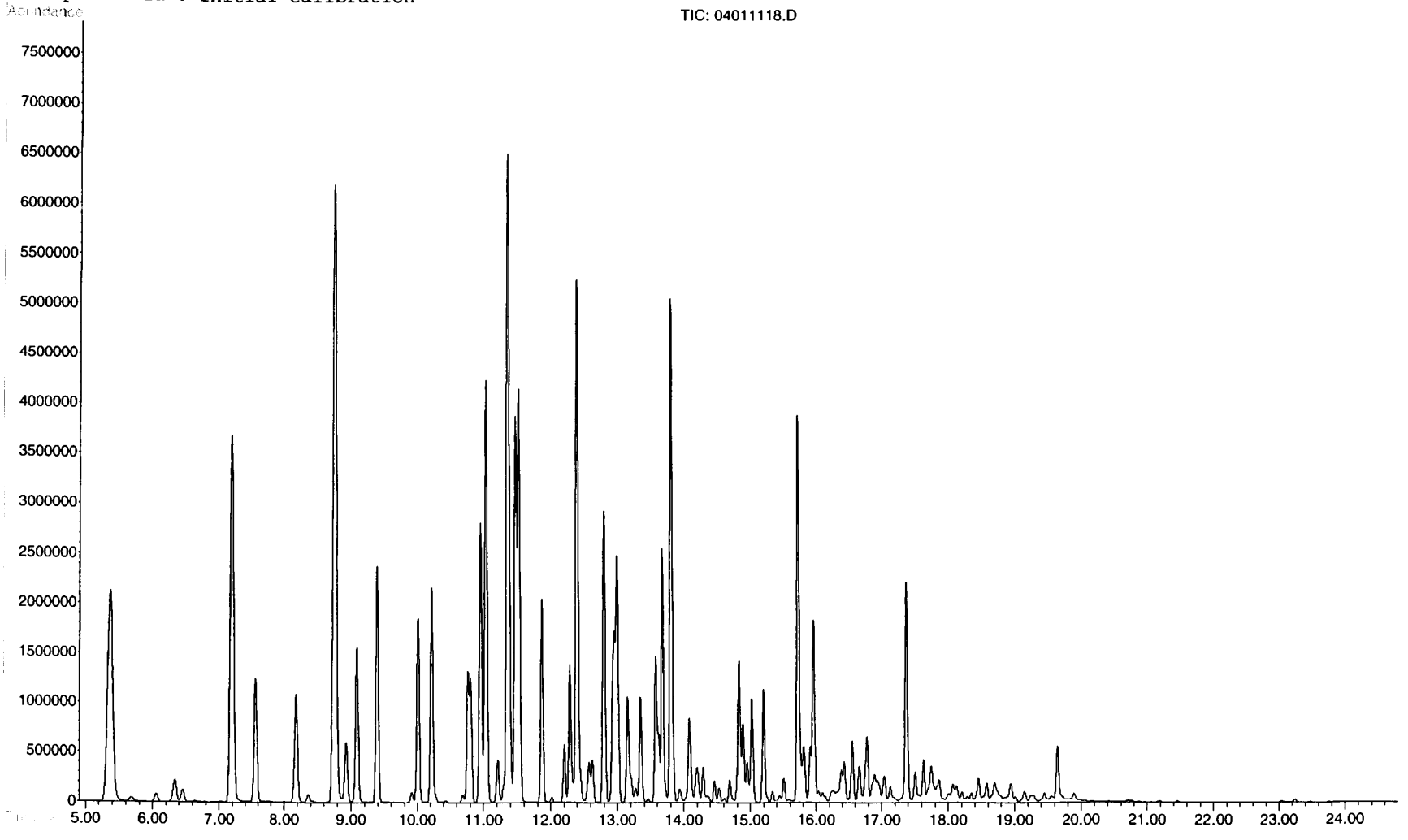
x = reported DATA only ch 4/15/11

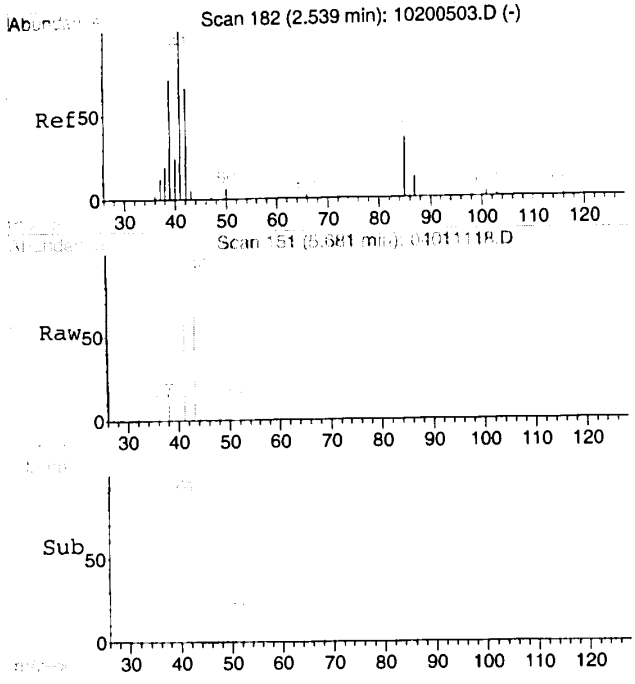
(#) = qualifier out of range (m) = manual integration
04011118.D 031611V1.M Thu Apr 14 12:00:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:11 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

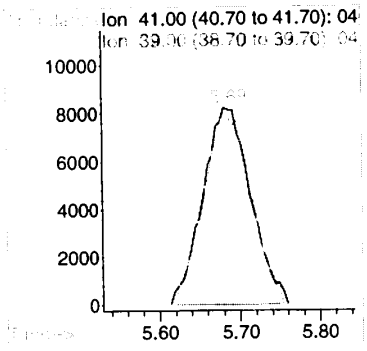


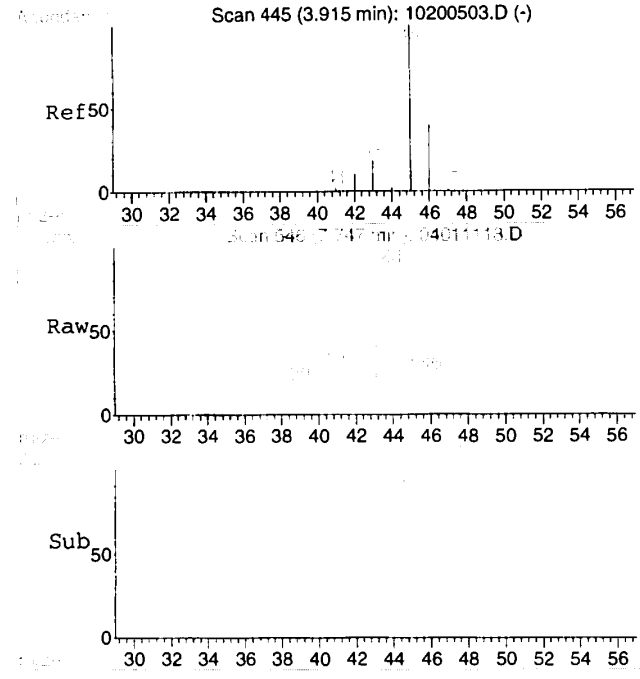


#2
Propylene
Concen: 0.77 ppbv
RT: 5.68 min Scan# 151
Delta R.T. -0.00 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 41 Resp: 33896

Ion	Ratio	Lower	Upper
41	100		
39	97.0	57.6	86.4#
42	53.1	54.0	81.0#

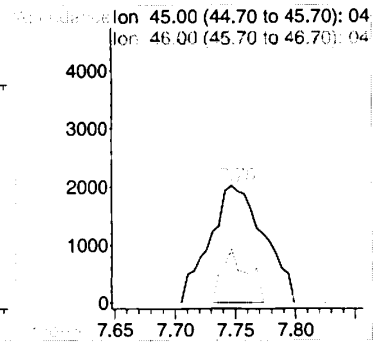


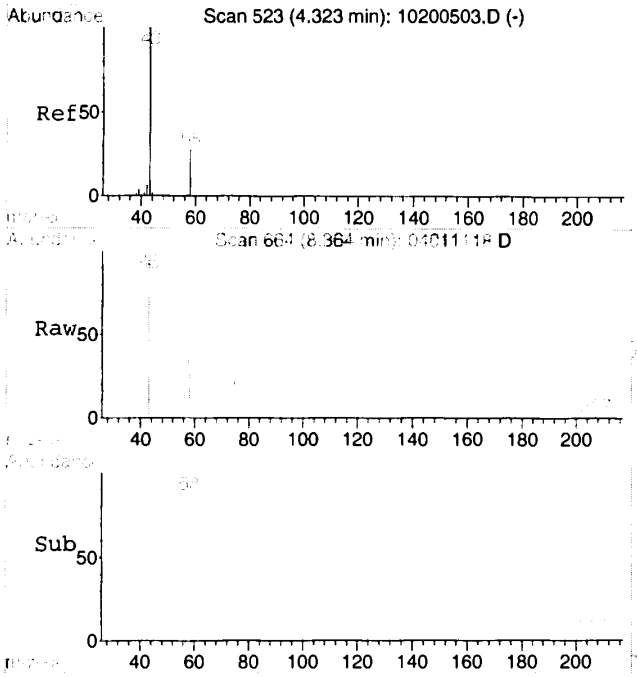


#11
Ethanol
Concen: 0.65 ppbv
RT: 7.75 min Scan# 546
Delta R.T. 0.02 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 45 Resp: 6345

Ion	Ratio	Lower	Upper
45	100		
46	21.6	30.2	45.4#
43	0.0	15.8	23.6#

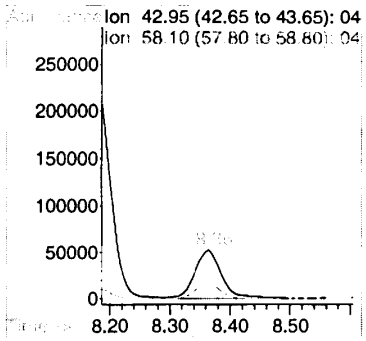


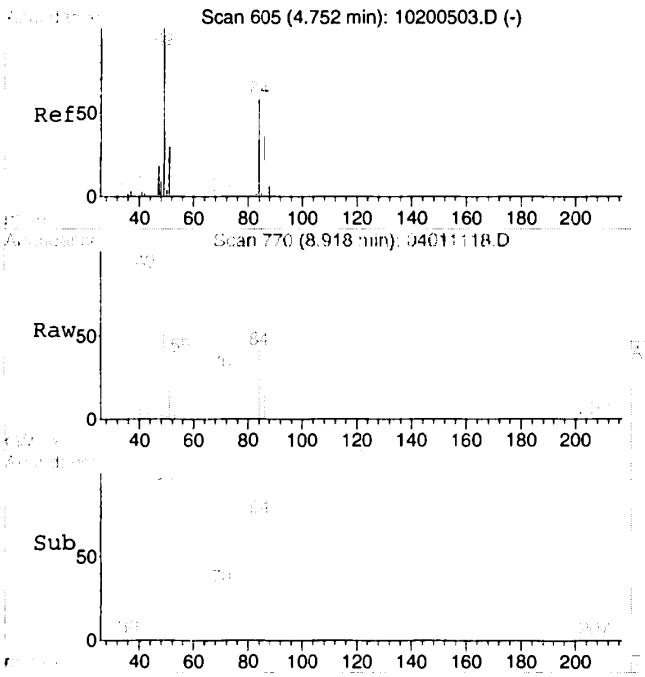


#14
Acetone
Concen: 2.27 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 43 Resp: 164236

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.0	33.0
39	4.9	6.5	9.7#

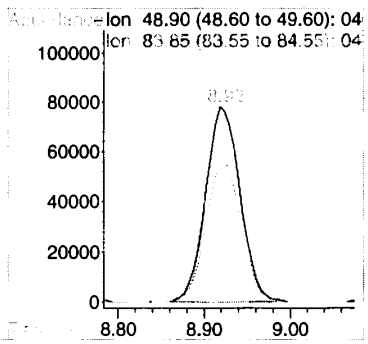


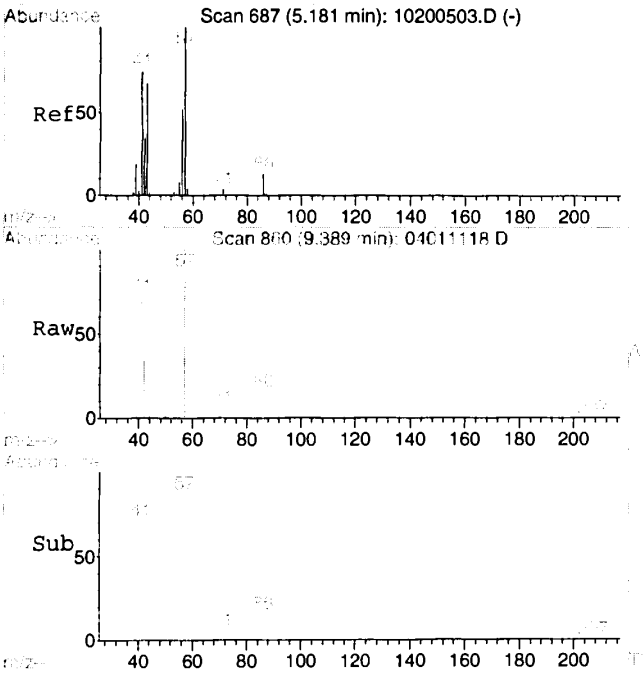


#17
Methylene chloride
Concen: 3.65 ppbv
RT: 8.92 min Scan# 770
Delta R.T. -0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 49 Resp: 216291

Ion	Ratio	Lower	Upper
49	100		
84	74.5	65.4	98.2
86	47.3	42.3	63.5

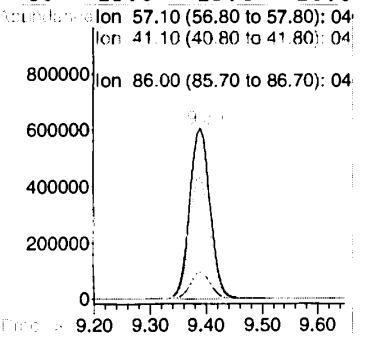


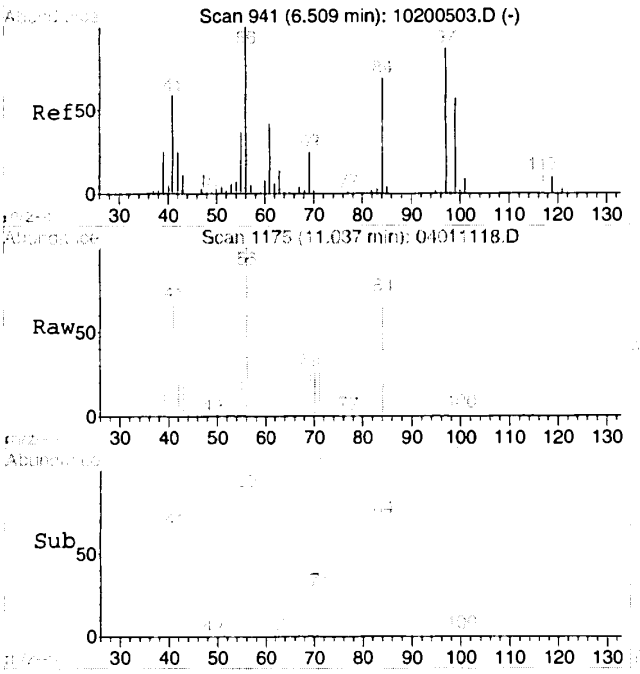


#20
n-Hexane
Concen: 18.08 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 57 Resp: 1552432

Ion	Ratio	Lower	Upper
57	100		
41	71.8	57.2	85.8
53	2.3	1.8	2.8
86	15.6	13.4	20.0

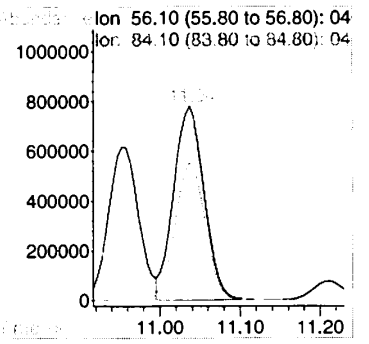


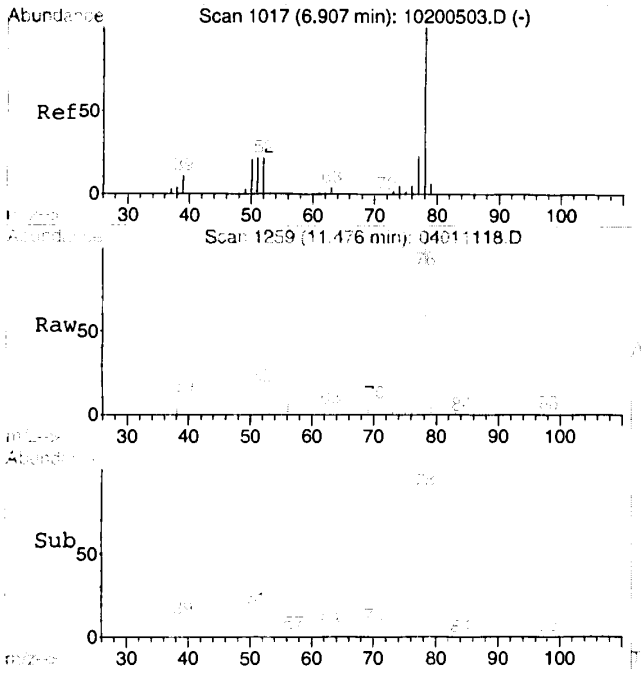


#29
Cyclohexane
Concen: 23.73 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 56 Resp: 2062384

Ion	Ratio	Lower	Upper
56	100		
84	71.1	72.4	108.6#
41	67.8	43.8	65.8#

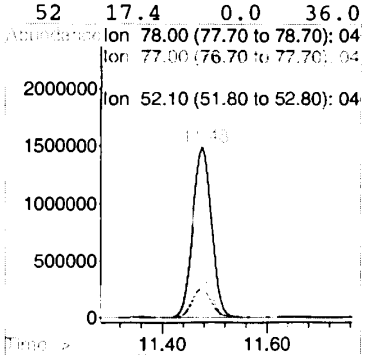


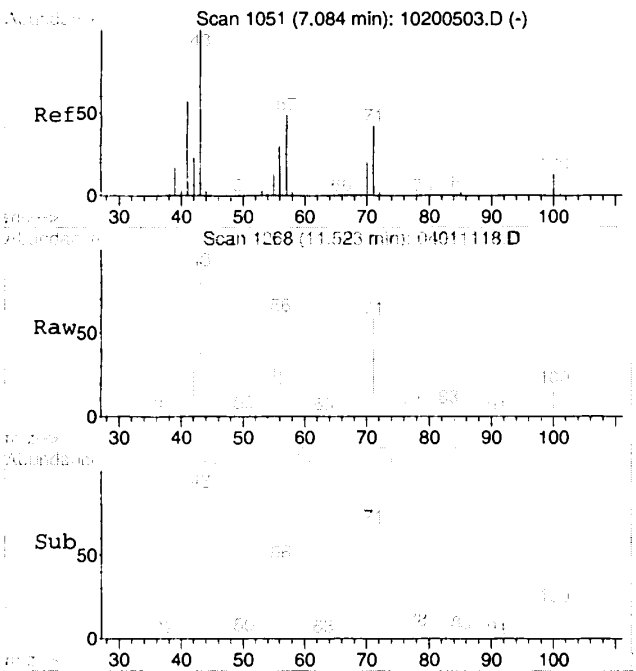


#31
Benzene
Concen: 25.89 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 78 Resp: 3762326

Ion	Ratio	Lower	Upper
78	100		
77	24.4	3.7	43.7
51	18.0	0.0	36.1
52	17.4	0.0	36.0

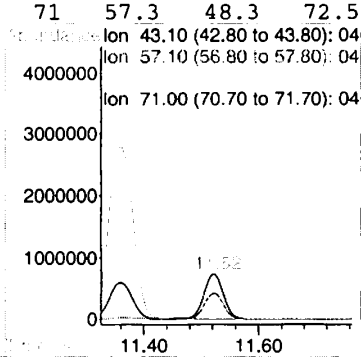


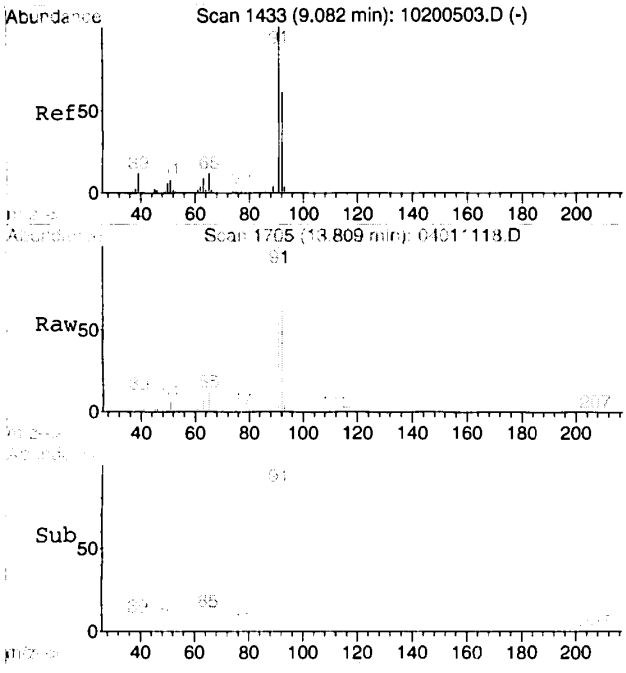


#34
Heptane
Concen: 17.35 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 43 Resp: 1761220

Ion	Ratio	Lower	Upper
43	100		
57	59.1	42.2	63.4
100	15.8	17.3	25.9#
71	57.3	48.3	72.5

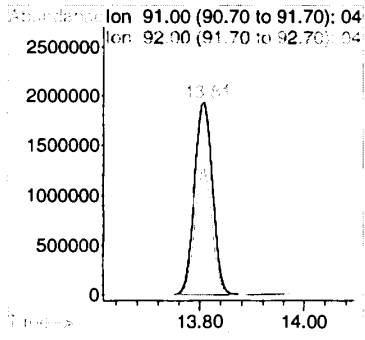


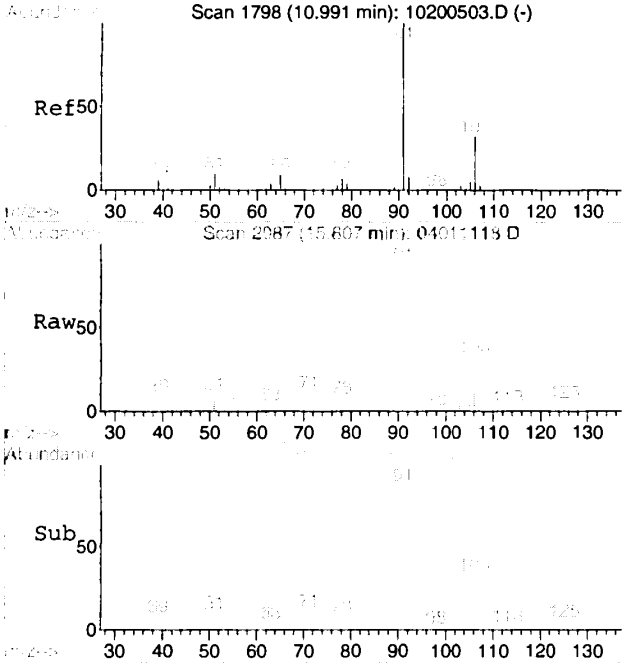


#41
Toluene
Concen: 29.61 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 91 Resp: 4690402

Ion	Ratio	Lower	Upper
91	100		
92	63.0	40.5	80.5
65	12.1	0.0	31.2

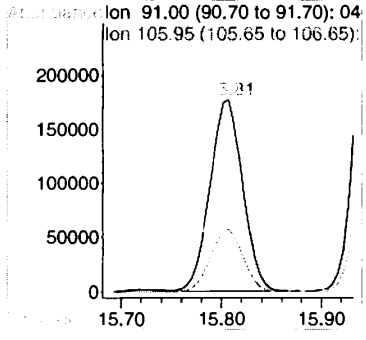


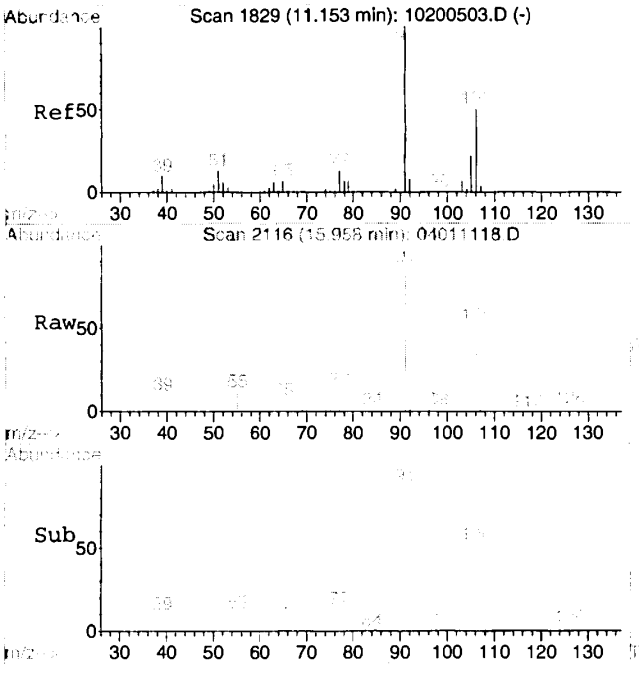


#50
Ethylbenzene
Concen: 2.07 ppbv
RT: 15.81 min Scan# 2087
Delta R.T. 0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 91 Resp: 398001

Ion	Ratio	Lower	Upper
91	100		
106	32.3	14.9	54.9
51	11.0	0.0	33.1

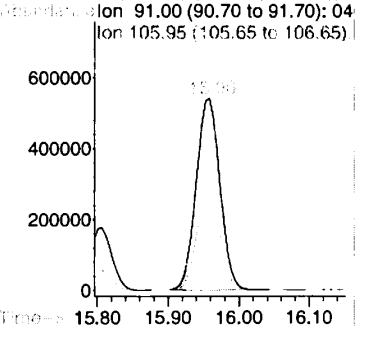


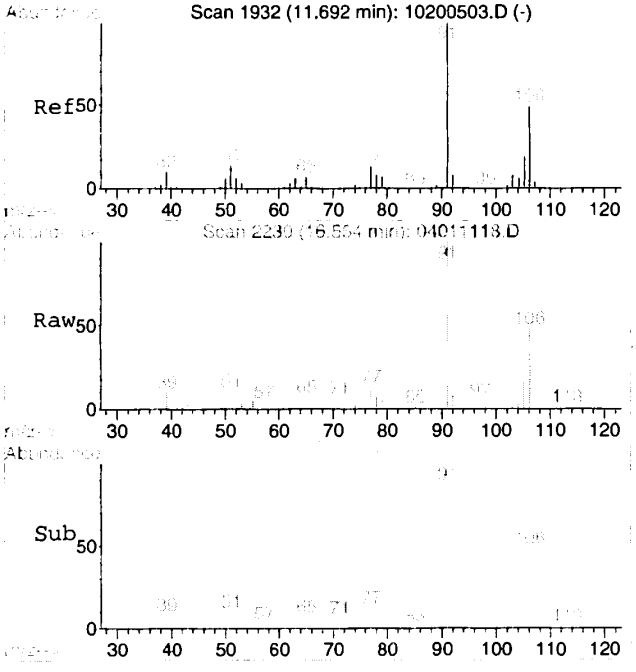


#51
m,p-Xylene
Concen: 8.40 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 91 Resp: 1253676

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.6	75.6
51	10.7	0.0	29.6

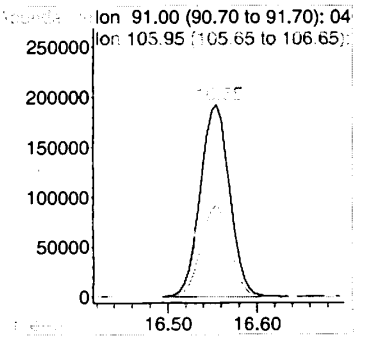


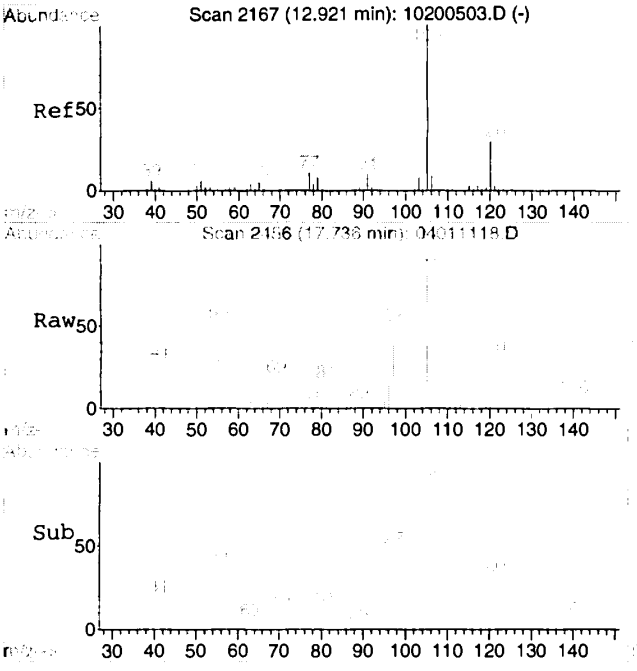


#52
o-Xylene
Concen: 3.03 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.01 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion: 91 Resp: 440781

Ion	Ratio	Lower	Upper
91	100		
106	47.3	41.0	61.6
51	11.2	19.7	29.5#

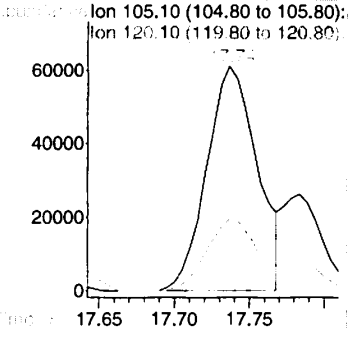


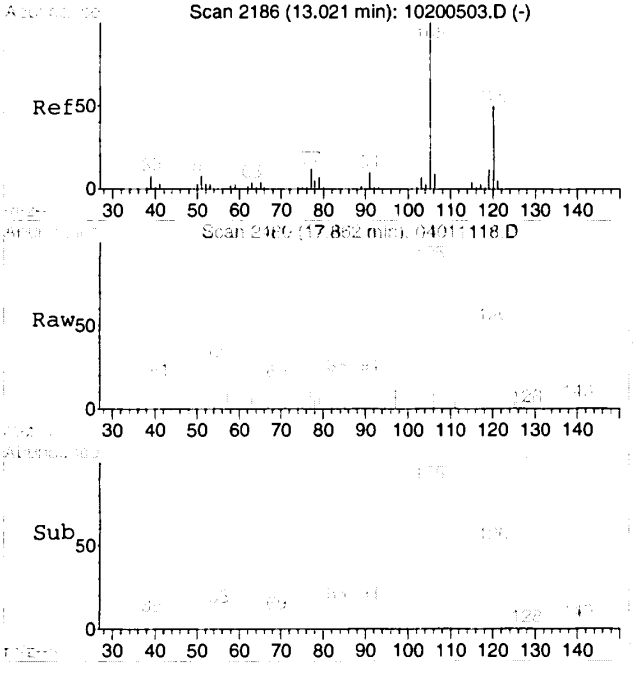


#57
4-Ethyltoluene
Concen: 0.82 ppbv
RT: 17.74 min Scan# 2456
Delta R.T. -0.05 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion:105 Resp: 142522

Ion	Ratio	Lower	Upper
105	100		
120	32.2	26.0	39.0

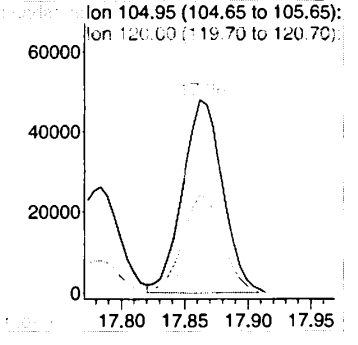


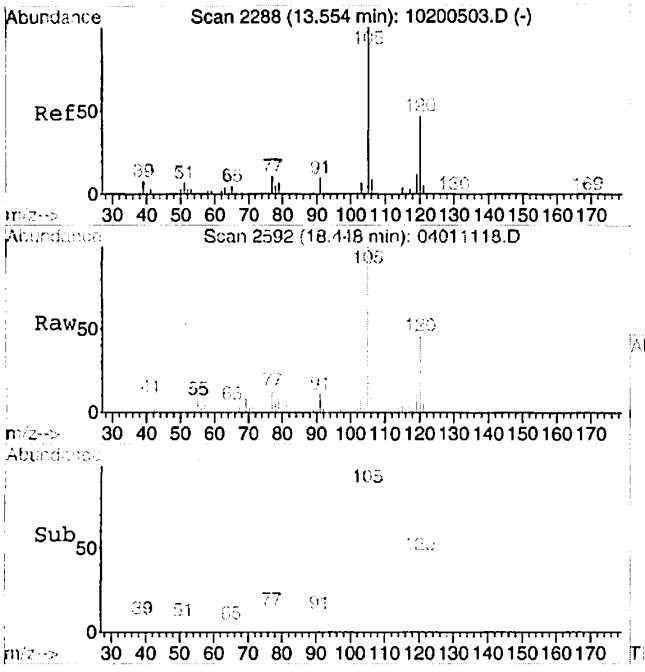


#58
1,3,5-Trimethylbenzene
Concen: 0.74 ppbv
RT: 17.86 min Scan# 2480
Delta R.T. -0.00 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion:105 Resp: 105324

Ion	Ratio	Lower	Upper
105	100		
120	49.6	32.1	72.1
91	21.8	0.0	30.4

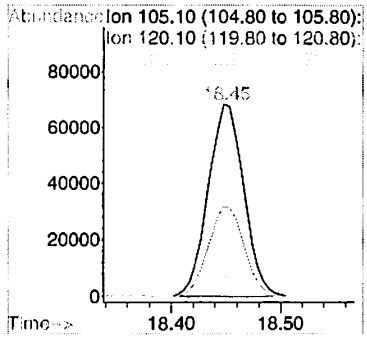




#59
1,2,4-Trimethylbenzene
Concen: 1.20 ppbv
RT: 18.45 min Scan# 2592
Delta R.T. -0.00 min
Lab File: 04011118.D
Acq: 2 Apr 2011 12:11 am

Tgt Ion:105 Resp: 153578

Ion	Ratio	Lower	Upper
105	100		
120	46.6	38.9	58.3
91	11.2	8.2	12.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.362	60	90	134	rBV	2130609	11731387	52.70%	4.292%
2	6.058	208	223	240	rVB2	80625	293653	1.32%	0.107%
3	6.330	257	275	288	rBV3	226597	848645	3.81%	0.311%
4	6.450	288	298	313	rVB	124911	418149	1.88%	0.153%
5	7.187	421	439	473	rBV	3684347	14118789	63.42%	5.166%
6	7.559	495	510	536	rVB	1236783	3916069	17.59%	1.433%
7	8.181	613	629	649	rBV	1081348	3388085	15.22%	1.240%
8	8.756	721	739	760	rBV2	6202970	22262529	100.00%	8.146%
9	8.924	761	771	788	rVV2	596829	1767190	7.94%	0.647%
10	9.086	788	802	822	rVB	1558477	4390677	19.72%	1.607%
11	9.389	847	860	876	rBV	2381194	6063599	27.24%	2.219%
12	9.912	945	960	967	rBV2	104517	292307	1.31%	0.107%
13	10.006	967	978	999	rVB	1857729	4981706	22.38%	1.823%
14	10.216	1004	1018	1044	rBV	2167187	5937201	26.67%	2.172%
15	10.765	1113	1123	1127	rBV	1285763	3157454	14.18%	1.155%
16	10.953	1145	1159	1167	rBV	2807532	7420301	33.33%	2.715%
17	11.037	1167	1175	1196	rVV2	4241459	11251380	50.54%	4.117%
18	11.209	1196	1208	1217	rVV	426289	1151262	5.17%	0.421%
19	11.361	1217	1237	1250	rVV	6508894	20734603	93.14%	7.587%
20	11.476	1250	1259	1263	rVV	3880598	9813958	44.08%	3.591%
21	11.523	1264	1268	1297	rVB3	4149012	9630927	43.26%	3.524%
22	11.863	1322	1333	1344	rBV	2060426	4737618	21.28%	1.733%
23	12.203	1384	1398	1405	rBV	582637	1399668	6.29%	0.512%
24	12.287	1405	1414	1423	rVV2	1393685	3641636	16.36%	1.332%
25	12.396	1424	1435	1457	rVV	5254535	14463116	64.97%	5.292%
26	12.574	1457	1469	1474	rVV2	409299	1202440	5.40%	0.440%
27	12.621	1474	1478	1491	rVB	428524	995794	4.47%	0.364%
28	12.799	1498	1512	1525	rBV2	2931489	7608979	34.18%	2.784%
29	12.946	1525	1540	1543	rBV4	1727728	4878826	21.91%	1.785%
30	12.993	1544	1549	1567	rVB2	2492065	6482702	29.12%	2.372%
31	13.150	1567	1579	1596	rBV2	1063559	3358529	15.09%	1.229%
32	13.343	1607	1616	1631	rVB	1056026	2687011	12.07%	0.983%
33	13.573	1646	1660	1667	rBV2	1471754	4081354	18.33%	1.493%
34	13.673	1673	1679	1693	rVB	2506299	5514648	24.77%	2.018%
35	13.809	1693	1705	1721	rVB	5053236	12883416	57.87%	4.714%
36	13.934	1721	1729	1741	rBV4	125845	358364	1.61%	0.131%
37	14.081	1741	1757	1769	rBV3	834020	2479643	11.14%	0.907%
38	14.196	1769	1779	1789	rVB5	305509	956480	4.30%	0.350%
39	14.285	1789	1796	1805	rBV	311318	663966	2.98%	0.243%
40	14.462	1821	1830	1836	rBV	214008	484372	2.18%	0.177%
41	14.530	1836	1843	1852	rVV3	141961	361292	1.62%	0.132%
42	14.687	1865	1873	1887	rBV2	221158	573457	2.58%	0.210%
43	14.829	1887	1900	1907	rVV	1417284	3889912	17.47%	1.423%

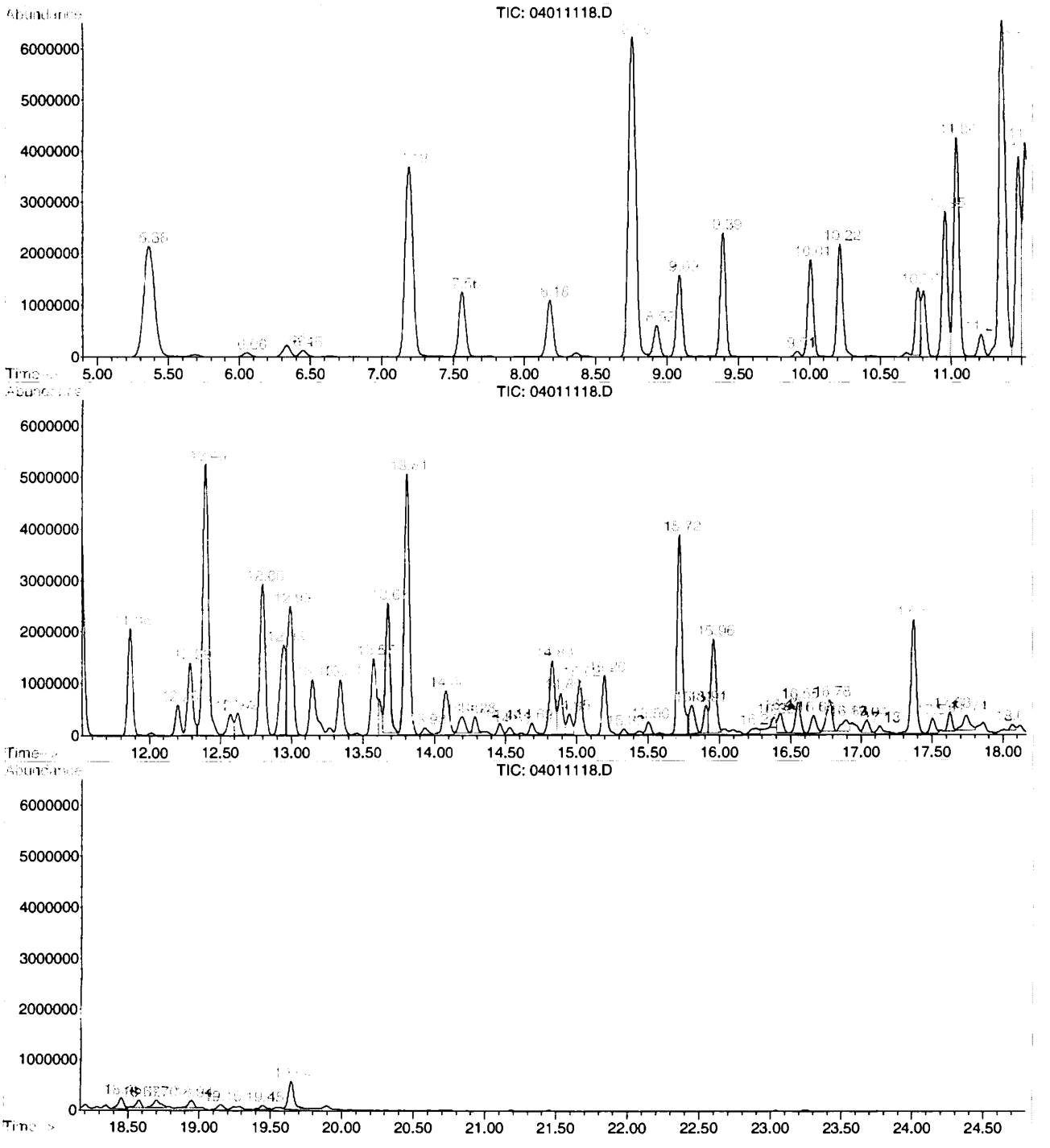
44	14.891	1907	1912	1918	rVV	785265	1836163	8.25%	0.672%
45	14.949	1918	1923	1929	rVV3	393534	974762	4.38%	0.357%
46	15.022	1929	1937	1953	rVB2	1046271	2746017	12.33%	1.005%
47	15.200	1957	1971	1988	rBV2	1145303	2792003	12.54%	1.022%
48	15.331	1988	1996	2004	rBV	110039	258225	1.16%	0.094%
49	15.503	2022	2029	2039	rVB	232908	541936	2.43%	0.198%
50	15.723	2056	2071	2082	rBV	3881987	9657009	43.38%	3.533%
51	15.807	2083	2087	2098	rVV2	536392	1367466	6.14%	0.500%
52	15.906	2098	2106	2109	rVV	528553	1101833	4.95%	0.403%
53	15.958	2109	2116	2126	rVV	1801212	4535482	20.37%	1.660%
54	16.256	2159	2173	2179	rBV7	108461	487383	2.19%	0.178%
55	16.382	2191	2197	2201	rBV	193954	405699	1.82%	0.148%
56	16.429	2201	2206	2217	rVB	377035	895574	4.02%	0.328%
57	16.554	2219	2230	2240	rVB	593089	1495974	6.72%	0.547%
58	16.664	2240	2251	2260	rBV3	340422	945238	4.25%	0.346%
59	16.779	2260	2273	2281	rVB5	602889	1731631	7.78%	0.634%
60	16.894	2281	2295	2300	rBV8	219742	807674	3.63%	0.296%
61	17.041	2315	2323	2332	rVB2	228433	613240	2.75%	0.224%
62	17.130	2333	2340	2362	rVB3	145393	482475	2.17%	0.177%
63	17.370	2363	2386	2400	rBV	2208881	5484825	24.64%	2.007%
64	17.506	2402	2412	2420	rBV2	282177	710111	3.19%	0.260%
65	17.627	2427	2435	2442	rBV2	372415	758459	3.41%	0.278%
66	17.742	2442	2457	2469	rBV4	289176	1037589	4.66%	0.380%
67	18.066	2513	2519	2524	rBV2	112045	243361	1.09%	0.089%
68	18.448	2580	2592	2602	rBV	212960	592681	2.66%	0.217%
69	18.573	2608	2616	2625	rVB	154799	372317	1.67%	0.136%
70	18.699	2626	2640	2654	rBV3	152956	614742	2.76%	0.225%
71	18.945	2679	2687	2696	rVB	150212	413663	1.86%	0.151%
72	19.149	2712	2726	2736	rBV3	105362	344926	1.55%	0.126%
73	19.447	2769	2783	2796	rBV4	83753	278987	1.25%	0.102%
74	19.640	2811	2820	2843	rVB	537723	1503302	6.75%	0.550%

Sum of corrected areas: 273303841

04011118.D 031611V1.M Thu Apr 14 12:00:33 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011118.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 12:11 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-012B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 15
Quant File :031611V1.RES (RTE Integrator)



04011118.D 031611V1.M Thu Apr 14 12:00:34 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	46.44 ppbv	11731400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	55.89 ppbv	14118800	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	87
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Butane, 1-chloro-2-methyl-	106	C5H11Cl	000616-13-7	10
5	1-Butene	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	15.50 ppbv	3916070	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	13.41 ppbv	3388090	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2-iodo-3-methyl-	198	C5H11I	000000-00-0	33

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Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	88.13 ppbv	22262500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	86
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	17.38 ppbv	4390680	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	19.72 ppbv	4981710	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	23.50 ppbv	5937200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	58

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	29.38 ppbv	7420300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Butane, 2,2,3,3-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	54.71 ppbv	20734600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72

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Peak Number 11 Hexane, 1-(hexyloxy)-5-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	9.61 ppbv	3641640	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	45

****

Peak Number 12 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	38.16 ppbv	14463100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Pentane, 2,3,4-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	20.08 ppbv	7608980	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

****

Peak Number 14 Heptane, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	12.87 ppbv	4878830	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	74
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	52

****

Peak Number 15 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	17.10 ppbv	6482700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
3	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	40
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	38
5	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	8.86 ppbv	3358530	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	59
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

****

Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	7.09 ppbv	2687010	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	10.77 ppbv	4081350	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

Data File : C:\HPCHEM\1\DATA\040111\04011118.D Vial: 15
Acq On : 2 Apr 2011 12:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	14.55 ppbv	5514650	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Octane	114	C8H18	000111-65-9	72

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	5.04 ppbv	3889910	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 12:11 am
Data File: C:\HPCHEM\1\DATA\040111\04011118.D
Name: 1103389-012B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	46.4	ppbv	11731400	ISTD01	10.76	3157450	12.5
Butane, 2-methyl-	7.19	55.9	ppbv	14118800	ISTD01	10.76	3157450	12.5
Pentane $$ n-Pentane	7.56	15.5	ppbv	3916070	ISTD01	10.76	3157450	12.5
Butane, 2,2-dimethyl	8.18	13.4	ppbv	3388090	ISTD01	10.76	3157450	12.5
Pentane, 2-methyl-	8.76	88.1	ppbv	22262500	ISTD01	10.76	3157450	12.5
Pentane, 3-methyl-	9.09	17.4	ppbv	4390680	ISTD01	10.76	3157450	12.5
Pentane, 2,4-dimethy	10.01	19.7	ppbv	4981710	ISTD01	10.76	3157450	12.5
Cyclopentane, methyl	10.22	23.5	ppbv	5937200	ISTD01	10.76	3157450	12.5
Pentane, 2,3-dimethy	10.95	29.4	ppbv	7420300	ISTD01	10.76	3157450	12.5
Butane, 2,2,3,3-tetr	11.36	54.7	ppbv	20734600	ISTD02	11.86	4737620	12.5
Hexane, 1-(hexyloxy)	12.29	9.6	ppbv	3641640	ISTD02	11.86	4737620	12.5
Cyclohexane, methyl-	12.40	38.2	ppbv	14463100	ISTD02	11.86	4737620	12.5
Pentane, 2,3,4-trime	12.80	20.1	ppbv	7608980	ISTD02	11.86	4737620	12.5
Heptane, 2-methyl-	12.95	12.9	ppbv	4878830	ISTD02	11.86	4737620	12.5
Decane, 3,3,4-trimet	12.99	17.1	ppbv	6482700	ISTD02	11.86	4737620	12.5
Heptane, 3-methyl-	13.15	8.9	ppbv	3358530	ISTD02	11.86	4737620	12.5
Hexane, 2,2,5-trimet	13.34	7.1	ppbv	2687010	ISTD02	11.86	4737620	12.5
Cyclohexane, 1,3-dim	13.57	10.8	ppbv	4081350	ISTD02	11.86	4737620	12.5
Octane	13.67	14.6	ppbv	5514650	ISTD02	11.86	4737620	12.5
Cyclohexane, ethyl-	14.83	5.0	ppbv	3889910	ISTD03	15.72	9657010	12.5

04011118.D 031611V1.M Thu Apr 14 12:00:35 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:11 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.77	130	566849	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2070333	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1612810	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1020036	12.62	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.96%			
Target Compounds						Qvalue
11) Ethanol ¥	7.74	45	5356	0.57	ppbv #	51
14) Acetone ¥	8.36	43	88319	1.26	ppbv #	95
17) Methylene chloride ¥	8.93	49	106970	1.87	ppbv	91
20) n-Hexane	9.39	57	2368066	28.61	ppbv	100
29) Cyclohexane	11.04	56	4018357	47.95	ppbv	84
31) Benzene ¥	11.47	78	620403	4.43	ppbv	94
34) Heptane ¥	11.52	43	605470	6.06	ppbv #	74
41) Toluene ¥	13.81	91	359388	2.30	ppbv	97
51) m,p-Xylene ¥	15.96	91	129407	0.89	ppbv	90
52) o-Xylene ¥	16.56	91	82580	0.58	ppbv #	89

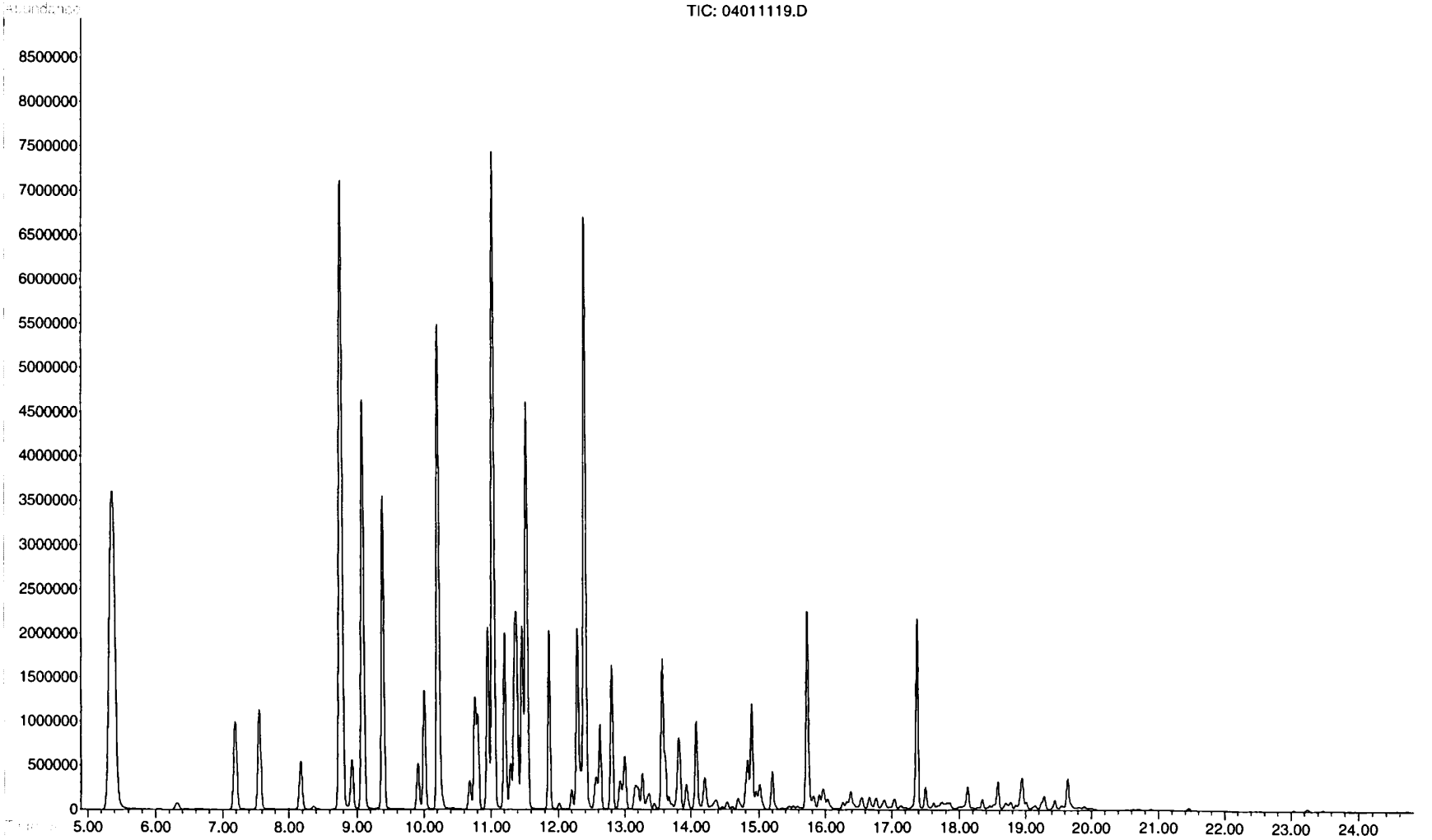
¥ = reported only ch 4/15/11

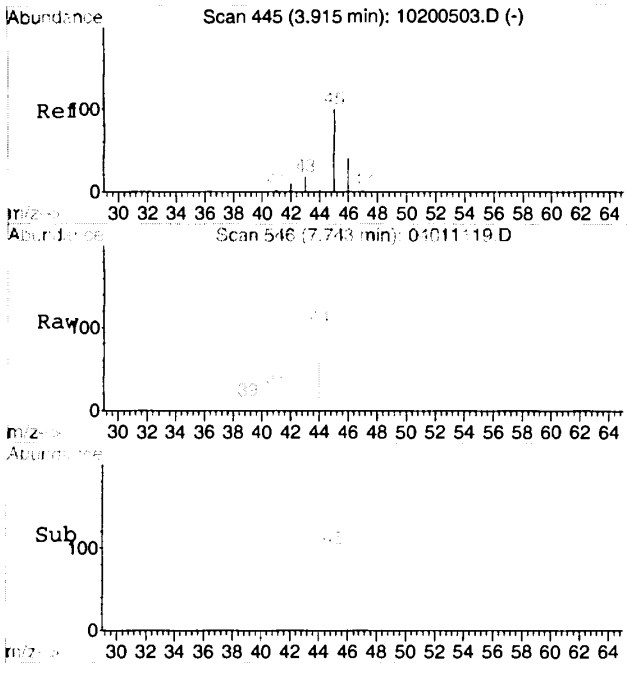
(#) = qualifier out of range (m) = manual integration
04011119.D 031611V1.M Thu Apr 14 12:02:37 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:11 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

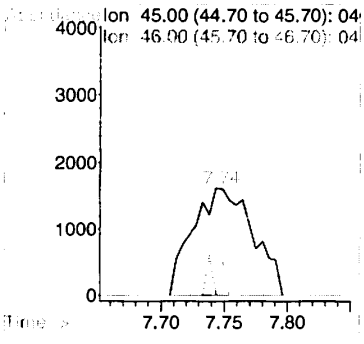


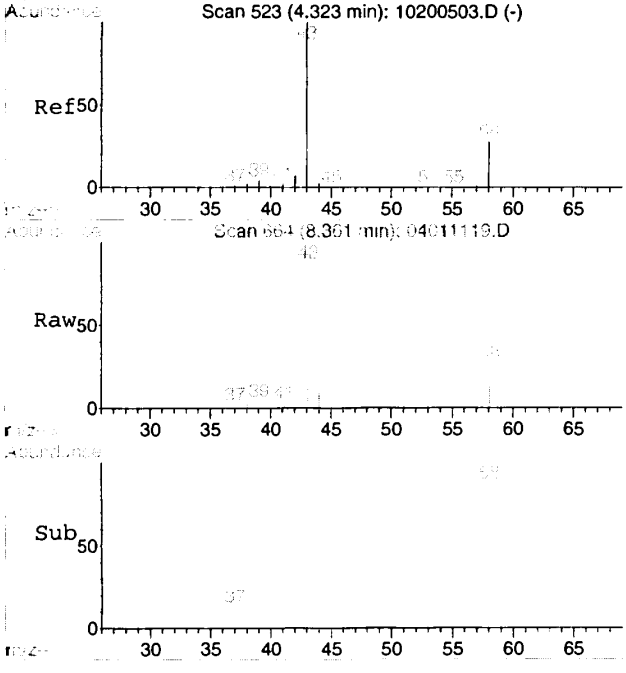


#11
Ethanol
Concen: 0.57 ppbv
RT: 7.74 min Scan# 546
Delta R.T. 0.01 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 45 Resp: 5356

Ion	Ratio	Lower	Upper
45	100		
46	6.6	30.2	45.4#
43	0.0	15.8	23.6#

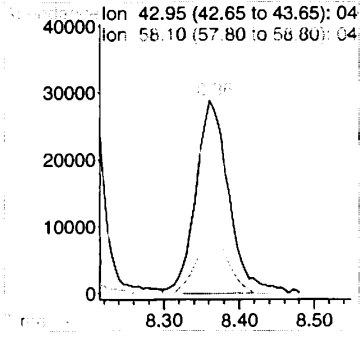


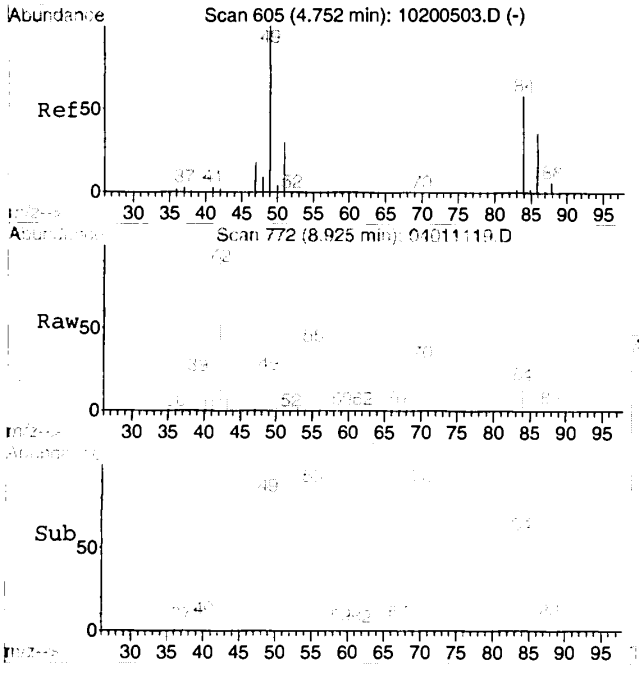


#14
Acetone
Concen: 1.26 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 43 Resp: 88319

Ion	Ratio	Lower	Upper
43	100		
58	29.2	22.0	33.0
39	4.6	6.5	9.7#

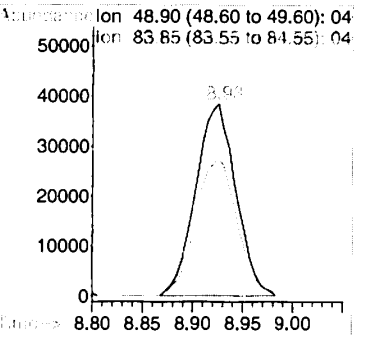


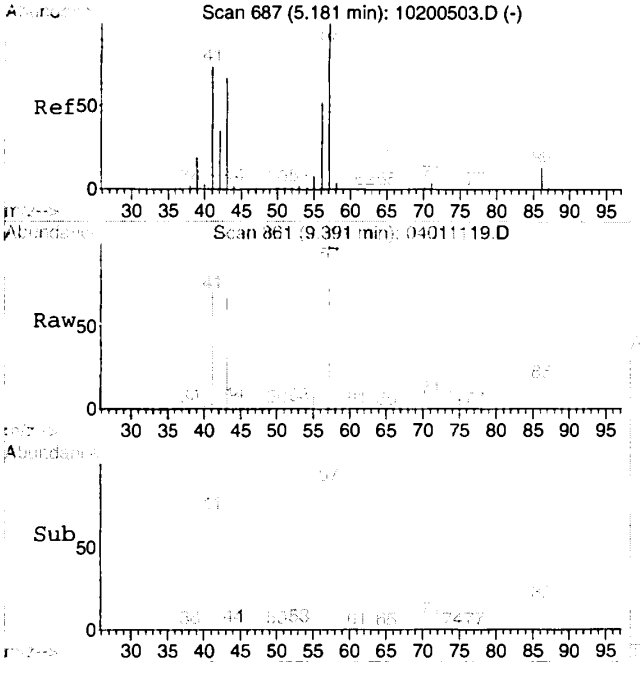


#17
Methylene chloride
Concen: 1.87 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 49 Resp: 106970

Ion	Ratio	Lower	Upper
49	100		
84	73.0	65.4	98.2
86	47.5	42.3	63.5

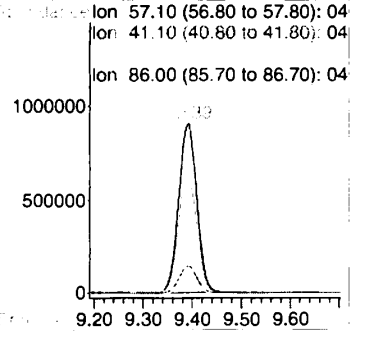


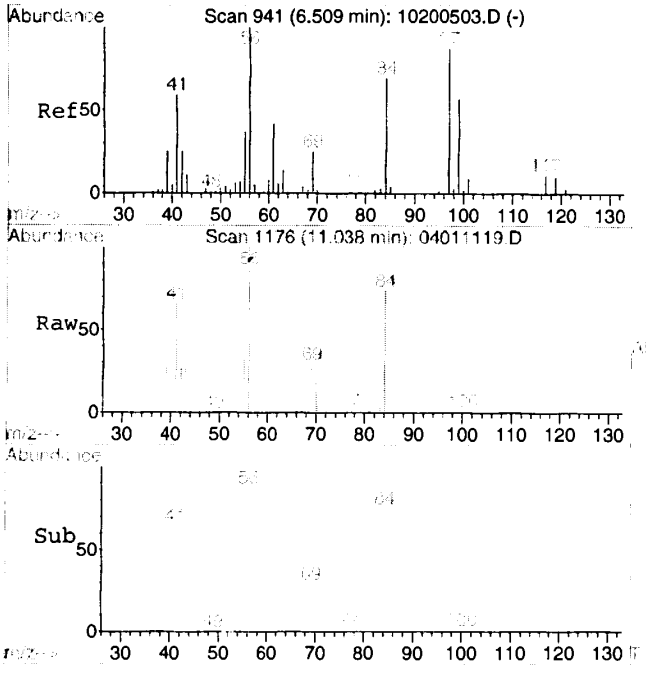


#20
n-Hexane
Concen: 28.61 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 57 Resp: 2368066

Ion	Ratio	Lower	Upper
57	100		
41	71.4	57.2	85.8
53	2.4	1.8	2.8
86	15.7	13.4	20.0

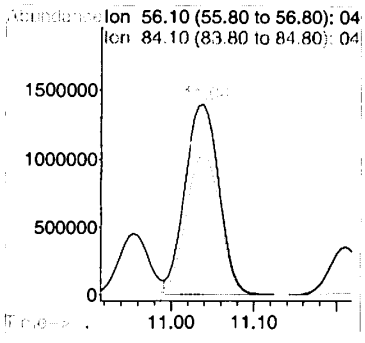


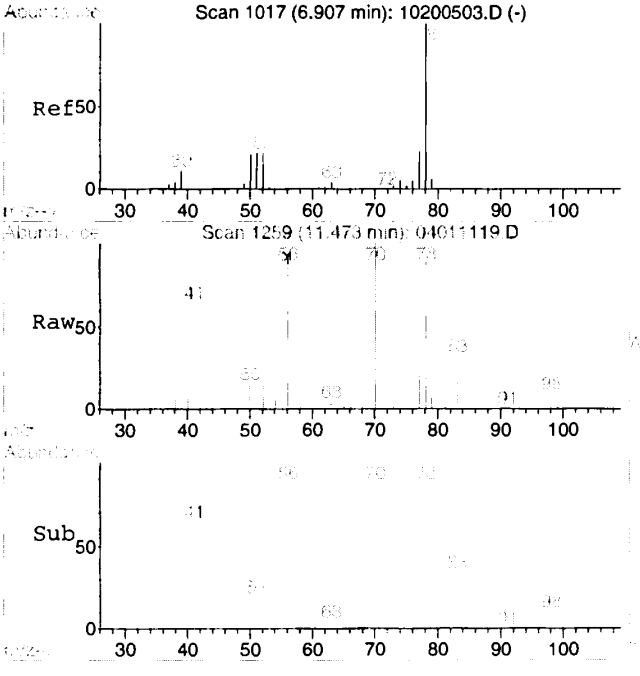


#29
Cyclohexane
Concen: 47.95 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 56 Resp: 4018357

Ion	Ratio	Lower	Upper
56	100		
84	74.9	72.4	108.6
41	65.4	43.8	65.8

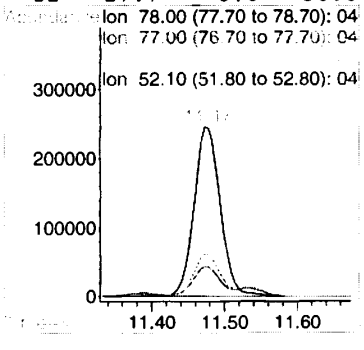


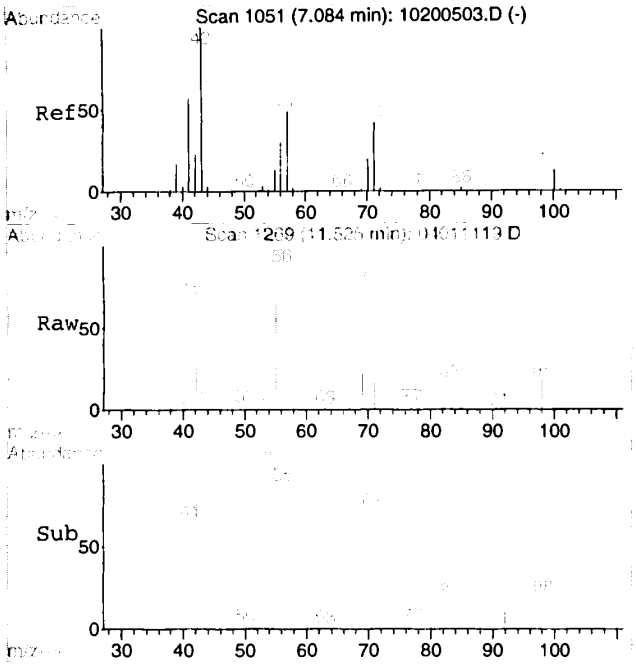


#31
Benzene
Concen: 4.43 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 78 Resp: 620403

Ion	Ratio	Lower	Upper
78	100		
77	25.9	3.7	43.7
51	20.0	0.0	36.1
52	17.7	0.0	36.0

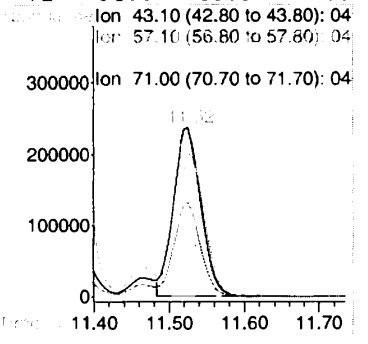


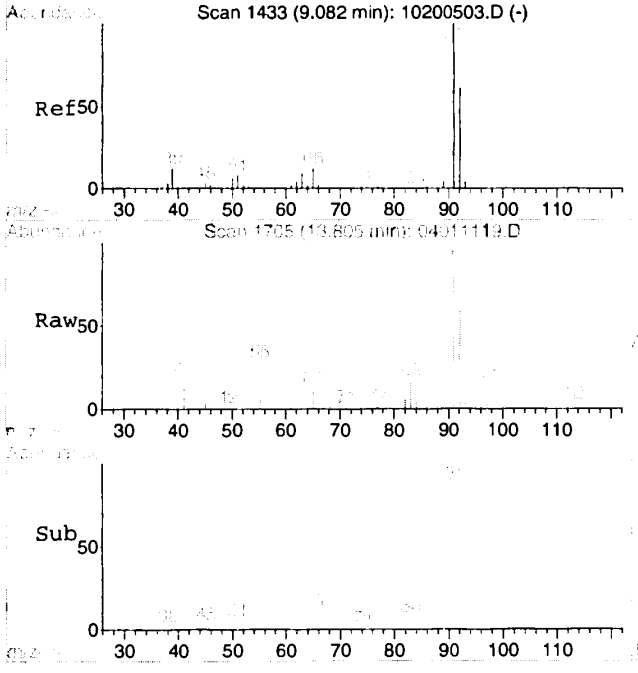


#34
Heptane
Concen: 6.06 ppbv
RT: 11.52 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 43 Resp: 605470

Ion	Ratio	Lower	Upper
43	100		
57	87.4	42.2	63.4#
100	11.2	17.3	25.9#
71	54.0	48.3	72.5

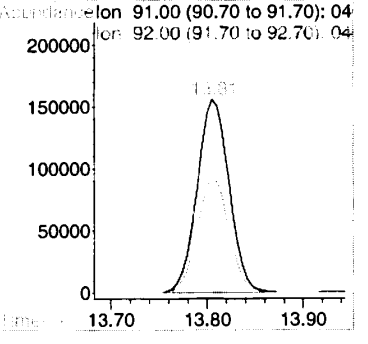


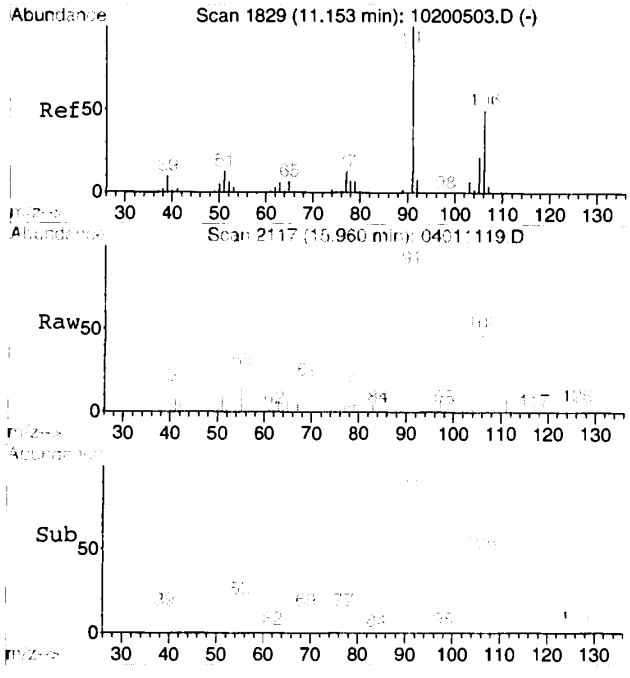


#41
Toluene
Concen: 2.30 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 91 Resp: 359388

Ion	Ratio	Lower	Upper
91	100		
92	59.1	40.5	80.5
65	13.6	0.0	31.2

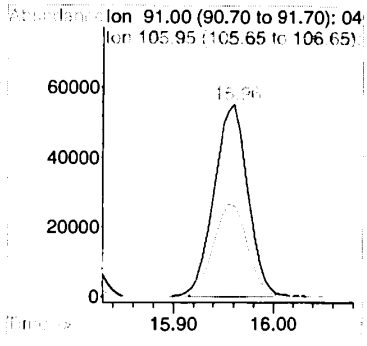


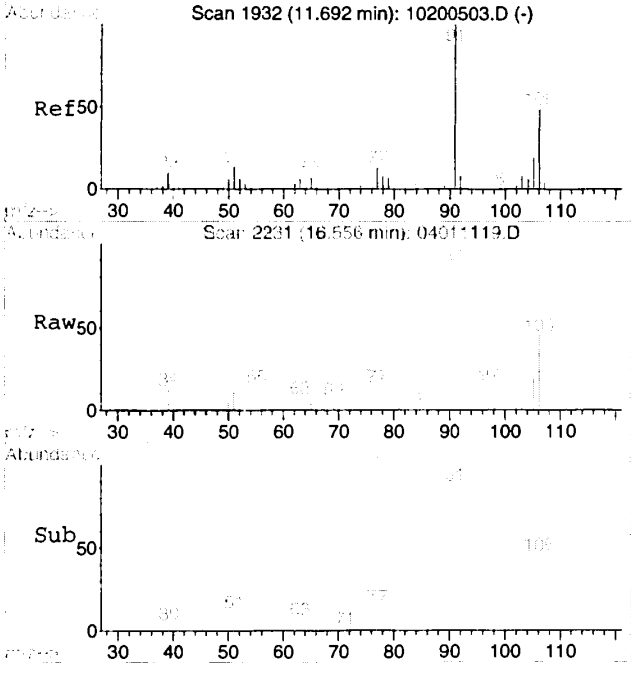


#51
m,p-Xylene
Concen: 0.89 ppbv
RT: 15.96 min Scan# 2117
Delta R.T. 0.00 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 91 Resp: 129407

Ion	Ratio	Lower	Upper
91	100		
106	48.2	35.6	75.6
51	12.0	0.0	29.6

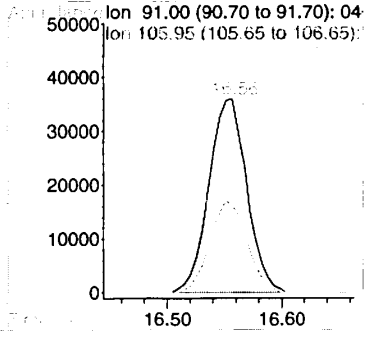




#52
o-Xylene
Concen: 0.58 ppbv
RT: 16.56 min Scan# 2231
Delta R.T. 0.01 min
Lab File: 04011119.D
Acq: 2 Apr 2011 12:54 am

Tgt Ion: 91 Resp: 82580

Ion	Ratio	Lower	Upper
91	100		
106	46.4	41.0	61.6
51	14.3	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	61	91	143	rBV	3604400	22278230	91.47%	9.032%
2	6.321	257	274	288	rBV4	78564	338811	1.39%	0.137%
3	7.189	422	440	465	rBV	1002651	3521114	14.46%	1.428%
4	7.560	494	511	536	rBV	1138259	3642333	14.95%	1.477%
5	8.178	614	629	648	rVB	553330	1720516	7.06%	0.698%
6	8.769	723	742	760	rBV2	7123082	24356489	100.00%	9.875%
7	8.925	761	772	787	rVV	563471	1679890	6.90%	0.681%
8	9.088	788	803	835	rVB	4640872	13606149	55.86%	5.516%
9	9.391	848	861	887	rVB	3556350	9315291	38.25%	3.777%
10	9.914	943	961	969	rBV	526984	1463453	6.01%	0.593%
11	10.008	969	979	1004	rVB	1354282	3656969	15.01%	1.483%
12	10.217	1004	1019	1049	rBV	5501939	15721694	64.55%	6.374%
13	10.688	1098	1109	1115	rBV	329948	889033	3.65%	0.360%
14	10.766	1115	1124	1128	rBV	1176485	2842655	11.67%	1.152%
15	10.955	1147	1160	1167	rBV	2073242	5389681	22.13%	2.185%
16	11.033	1167	1175	1196	rVV2	7450525	21138403	86.79%	8.570%
17	11.211	1196	1209	1218	rVV	2006469	5336649	21.91%	2.164%
18	11.295	1218	1225	1230	rVV	515859	1326014	5.44%	0.538%
19	11.378	1230	1241	1251	rVV4	2252414	8884689	36.48%	3.602%
20	11.467	1251	1258	1263	rVV3	2082705	5165381	21.21%	2.094%
21	11.530	1263	1270	1297	rVB3	4619466	12459430	51.15%	5.051%
22	11.865	1323	1334	1353	rBV	2037220	4697387	19.29%	1.904%
23	12.200	1386	1398	1404	rBV	228121	533744	2.19%	0.216%
24	12.283	1404	1414	1423	rVV	2039039	5452150	22.38%	2.210%
25	12.393	1426	1435	1455	rVB	6699019	18095563	74.29%	7.336%
26	12.566	1456	1468	1473	rBV3	354486	1107514	4.55%	0.449%
27	12.623	1473	1479	1495	rVB	965671	2381696	9.78%	0.966%
28	12.801	1498	1513	1527	rBV2	1637679	4140393	17.00%	1.679%
29	12.927	1527	1537	1543	rBV4	314003	922634	3.79%	0.374%
30	13.000	1544	1551	1566	rVB3	603453	1726579	7.09%	0.700%
31	13.167	1569	1583	1588	rBV3	274148	968649	3.98%	0.393%
32	13.272	1596	1603	1611	rVB	348793	791503	3.25%	0.321%
33	13.376	1612	1623	1632	rVB4	167335	591393	2.43%	0.240%
34	13.575	1648	1661	1676	rBV	1708761	5480061	22.50%	2.222%
35	13.821	1694	1708	1721	rVB5	798831	2676911	10.99%	1.085%
36	13.936	1721	1730	1743	rVB2	277249	784012	3.22%	0.318%
37	14.077	1745	1757	1770	rBV2	994235	2566495	10.54%	1.041%
38	14.203	1771	1781	1794	rVB4	340376	1017423	4.18%	0.412%
39	14.370	1801	1813	1823	rVB7	107783	406515	1.67%	0.165%
40	14.694	1865	1875	1887	rBV4	126350	402886	1.65%	0.163%
41	14.830	1887	1901	1905	rVV4	557253	1708446	7.01%	0.693%
42	14.888	1905	1912	1920	rVV	1201853	3078659	12.64%	1.248%
43	14.956	1921	1925	1929	rVV4	210171	456225	1.87%	0.185%

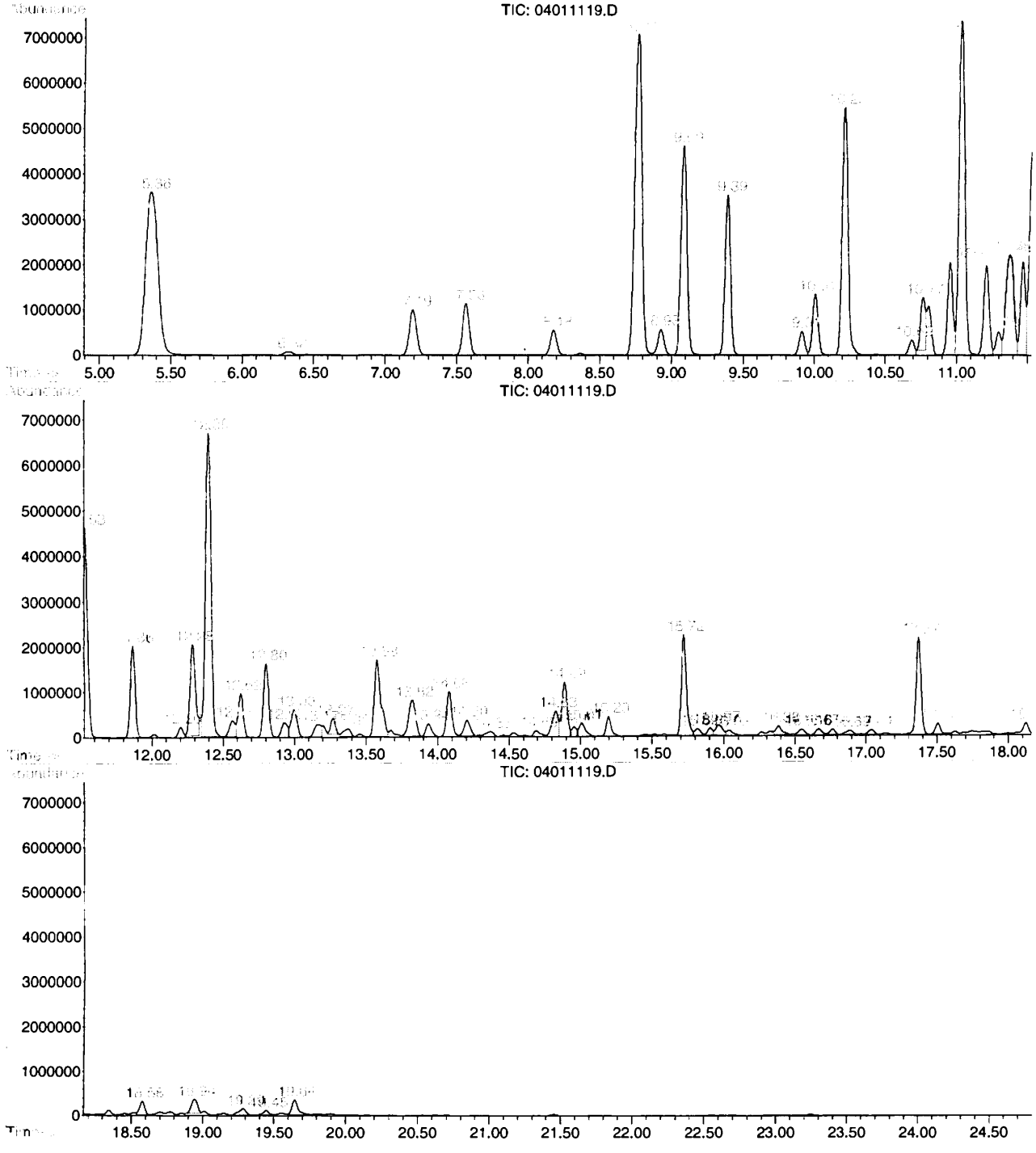
44	15.008	1930	1935	1955	rVV3	285789	887915	3.65%	0.360%
45	15.196	1959	1971	1990	rVB	437224	1146213	4.71%	0.465%
46	15.719	2059	2071	2084	rBV	2242891	5679856	23.32%	2.303%
47	15.819	2085	2090	2099	rVV3	146776	392893	1.61%	0.159%
48	15.902	2099	2106	2111	rVV	164323	403033	1.65%	0.163%
49	15.965	2111	2118	2127	rVV3	232957	785342	3.22%	0.318%
50	16.033	2127	2131	2149	rVB4	116618	355223	1.46%	0.144%
51	16.384	2191	2198	2214	rVB2	188494	577371	2.37%	0.234%
52	16.546	2220	2229	2241	rVB3	129713	395924	1.63%	0.161%
53	16.666	2241	2252	2261	rBV4	136887	396961	1.63%	0.161%
54	16.765	2262	2271	2280	rVB4	120364	320643	1.32%	0.130%
55	16.886	2281	2294	2304	rBV6	92365	309140	1.27%	0.125%
56	17.043	2314	2324	2333	rVB4	108602	319178	1.31%	0.129%
57	17.372	2364	2387	2400	rBV	2169453	5160360	21.19%	2.092%
58	17.503	2403	2412	2423	rVV	236690	570233	2.34%	0.231%
59	18.125	2522	2531	2541	rVB	246239	625849	2.57%	0.254%
60	18.575	2609	2617	2626	rVB	308973	759334	3.12%	0.308%
61	18.941	2676	2687	2696	rBV2	318432	963856	3.96%	0.391%
62	19.286	2736	2753	2767	rVB3	151881	587807	2.41%	0.238%
63	19.448	2770	2784	2793	rBV2	106849	305993	1.26%	0.124%
64	19.642	2812	2821	2841	rVB	338685	988965	4.06%	0.401%

Sum of corrected areas: 246651801

04011119.D 031611V1.M Thu Apr 14 12:02:44 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011119.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 12:54 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-014B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 16
Quant File :031611V1.RES (RTE Integrator)



04011119.D 031611V1.M Thu Apr 14 12:02:44 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	97.96 ppbv	22278200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	15.48 ppbv	3521110	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	38
5	3-Buten-1-ol	72	C4H8O	000627-27-0	28

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	16.02 ppbv	3642330	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	7.57 ppbv	1720520	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
4	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64
5	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	107.10 ppbv	24356500	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	52

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Peak Number 6 Pentane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	59.83 ppbv	13606100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	59
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	39

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 2,2-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.91	6.44 ppbv	1463450	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	90
2	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	78
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Pentane, 2,2-dimethyl- $$ 2,2-Dimet	100	C7H16	000590-35-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 8 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	16.08 ppbv	3656970	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	50

****

Peak Number 9 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	69.13 ppbv	15721700	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclohexane	84	C6H12	000110-82-7	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	23.70 ppbv	5389680	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

****

Peak Number 11 Cyclopentane, 1,1-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	23.47 ppbv	5336650	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
3	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
4	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	32
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	32

****

Peak Number 12 Pyrrolidine Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	5.83 ppbv	1326010	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrrolidine	71	C4H9N	000123-75-1	72
2	Pentane, 3-ethyl-	100	C7H16	000617-78-7	64
3	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 1-Hexene, 5-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.38	23.64 ppbv	8884690	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	53
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	52
3	Cyclopentane, 1,3-dimethyl-, cis- $	98	C7H14	002532-58-3	47
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	47
5	1-Hexene, 2-methyl- $$ 2-Methyl-1-h	98	C7H14	006094-02-6	47

****

Peak Number 14 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	14.51 ppbv	5452150	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl- $$ 1	112	C8H16	004516-69-2	80
2	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	72
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	49
4	(1R,2R)-(-)-1,2-Diaminocyclohexane	114	C6H14N2	020439-47-8	47
5	1-Pentadecene, 2-methyl- $$ 2-Methy	224	C16H32	029833-69-0	42

****

Peak Number 15 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	48.15 ppbv	18095600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	64
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D Vial: 16
Acq On : 2 Apr 2011 12:54 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 400.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	6.34 ppbv	2381700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	91
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
3	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	72
4	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	59
5	Heptane, 3-methylene- $$ 1-Hexene,	112	C8H16	001632-16-2	56

****

Peak Number 17 Cyclopentane, 1,2,3-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	11.02 ppbv	4140390	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	87
2	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	87
3	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	015890-40-1	78
4	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	72
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	53

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	14.58 ppbv	5480060	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011119.D
Acq On : 2 Apr 2011 12:54 am
Sample : 1103389-014B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 16
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 400.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	5.65 ppbv	2566500	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 20 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	6.78 ppbv	3078660	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	50
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	47
3	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	47
4	Cyclohexane, 1,3,5-trimethyl-, (1.a	126	C9H18	001795-27-3	40
5	2-Pyrazoline, 1-isopropyl-5-methyl-	126	C7H14N2	026964-54-5	39

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 12:54 am
Data File: C:\HPCHEM\1\DATA\040111\04011119.D
Name: 1103389-014B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	98.0	ppbv	22278200	ISTD01	10.77	2842660	12.5
Butane, 2-methyl-	7.19	15.5	ppbv	3521110	ISTD01	10.77	2842660	12.5
Pentane $$ n-Pentane	7.56	16.0	ppbv	3642330	ISTD01	10.77	2842660	12.5
Butane, 2,2-dimethyl	8.18	7.6	ppbv	1720520	ISTD01	10.77	2842660	12.5
Pentane, 2-methyl-	8.77	107.1	ppbv	24356500	ISTD01	10.77	2842660	12.5
Pentane, 3-methyl-	9.09	59.8	ppbv	13606100	ISTD01	10.77	2842660	12.5
Pentane, 2,2-dimethy	9.91	6.4	ppbv	1463450	ISTD01	10.77	2842660	12.5
Pentane, 2,4-dimethy	10.01	16.1	ppbv	3656970	ISTD01	10.77	2842660	12.5
Cyclopentane, methyl	10.22	69.1	ppbv	15721700	ISTD01	10.77	2842660	12.5
Pentane, 2,3-dimethy	10.95	23.7	ppbv	5389680	ISTD01	10.77	2842660	12.5
Cyclopentane, 1,1-di	11.21	23.5	ppbv	5336650	ISTD01	10.77	2842660	12.5
Pyrrolidine	11.29	5.8	ppbv	1326010	ISTD01	10.77	2842660	12.5
1-Hexene, 5-methyl-	11.38	23.6	ppbv	8884690	ISTD02	11.86	4697390	12.5
Cyclopentane, 1,1,3-	12.28	14.5	ppbv	5452150	ISTD02	11.86	4697390	12.5
Cyclohexane, methyl-	12.39	48.2	ppbv	18095600	ISTD02	11.86	4697390	12.5
Cyclopentane, 1,2,4-	12.62	6.3	ppbv	2381700	ISTD02	11.86	4697390	12.5
Cyclopentane, 1,2,3-	12.80	11.0	ppbv	4140390	ISTD02	11.86	4697390	12.5
Cyclohexane, 1,3-dim	13.57	14.6	ppbv	5480060	ISTD02	11.86	4697390	12.5
Cyclohexane, 1,2-dim	14.08	5.6	ppbv	2566500	ISTD03	15.72	5679860	12.5
Cyclohexane, 1,1,3-t	14.89	6.8	ppbv	3078660	ISTD03	15.72	5679860	12.5

04011119.D 031611V1.M Thu Apr 14 12:02:45 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:12 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	552057	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2063792	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1613392	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	979101	12.11	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.88%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	63094	1.13	ppbv		91
-20) n-Hexane	9.40	57	4978499	61.75	ppbv		99
-29) Cyclohexane	11.04	56	4171506	51.11	ppbv	#	83
31) Benzene	11.48	78	1041452	7.63	ppbv		95
-34) Heptane	11.52	43	2154157	21.61	ppbv	#	92
41) Toluene	13.81	91	957455	6.16	ppbv		98
50) Ethylbenzene	15.80	91	98295	0.52	ppbv		95
51) m,p-Xylene	15.95	91	210350	1.45	ppbv		91
52) o-Xylene	16.55	91	71911	0.51	ppbv	#	88

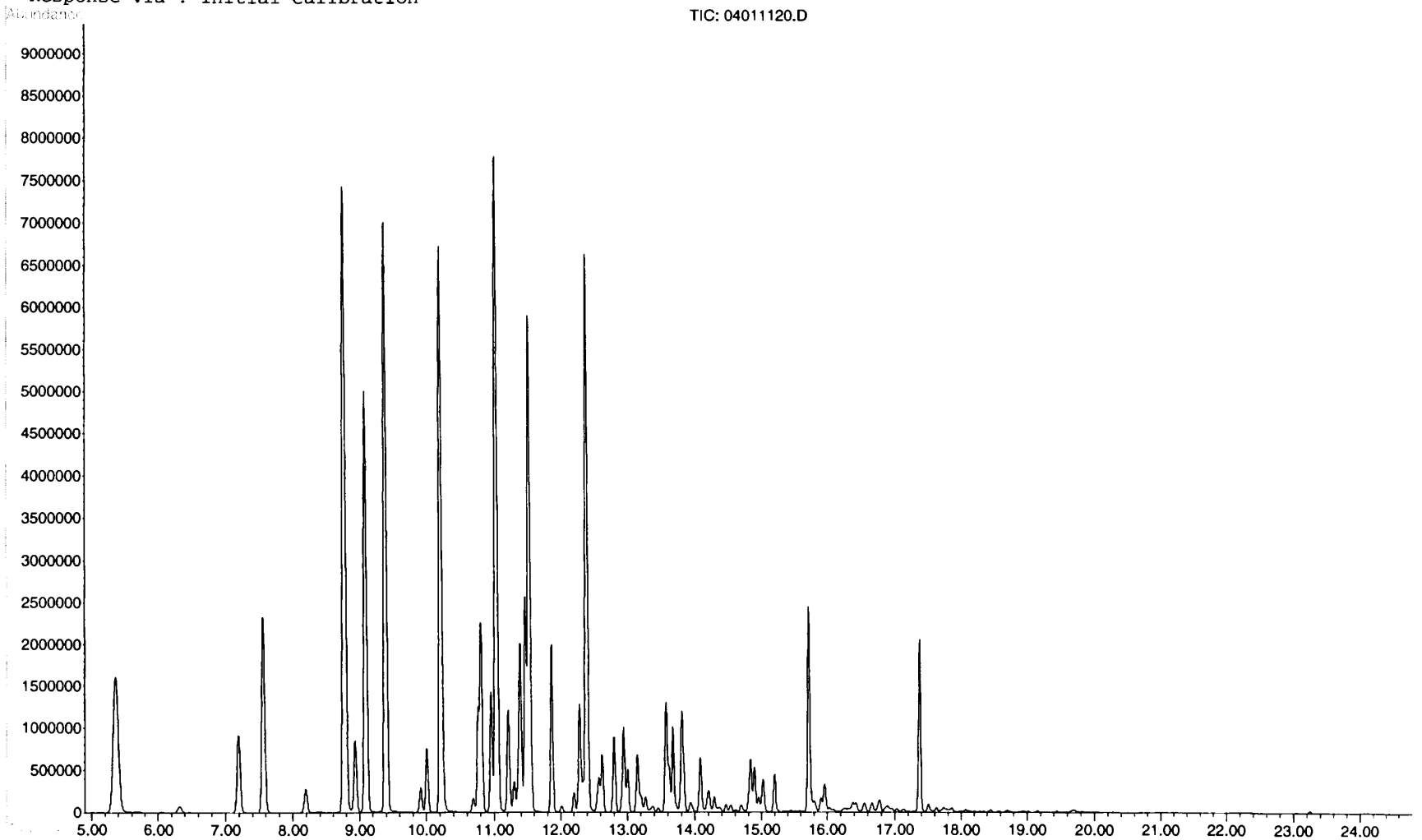
X = data reported ch 4/15/11

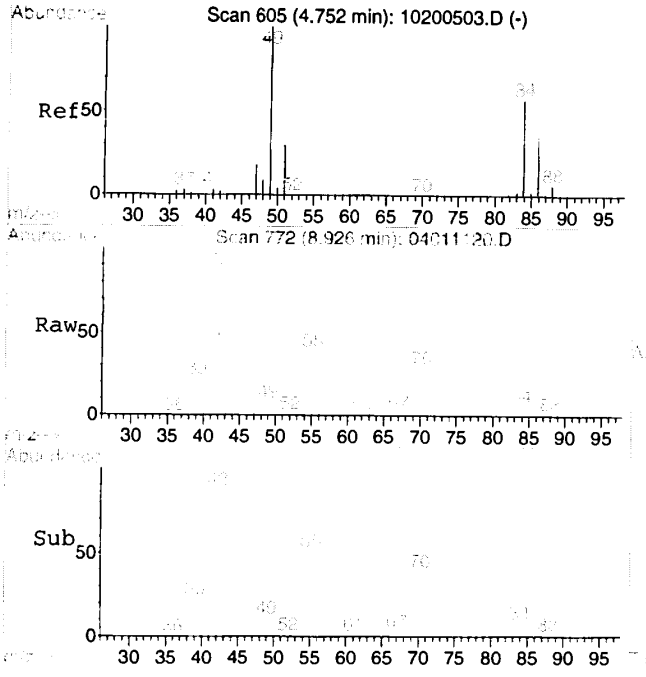
(#) = qualifier out of range (m) = manual integration
04011120.D 031611V1.M Thu Apr 14 12:02:50 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:12 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

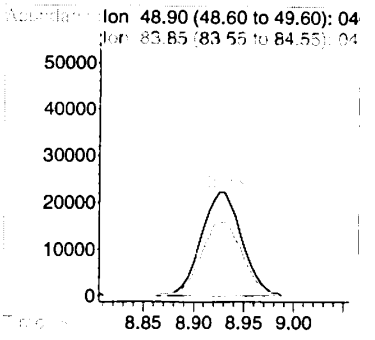


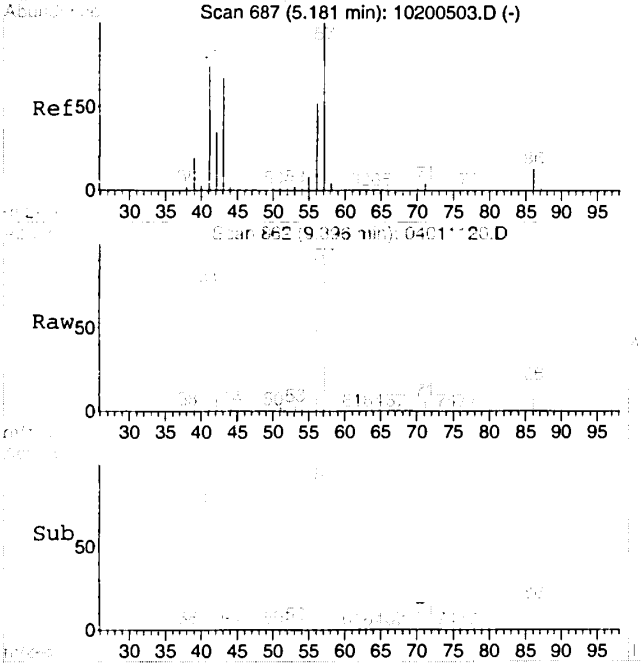


#17
Methylene chloride
Concen: 1.13 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 49 Resp: 63094

Ion	Ratio	Lower	Upper
49	100		
84	73.4	65.4	98.2
86	46.6	42.3	63.5

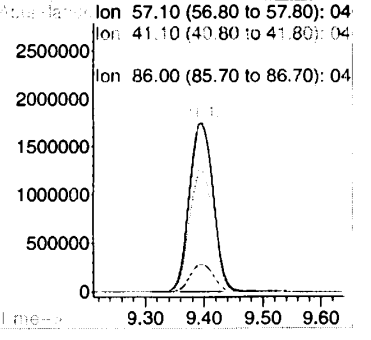


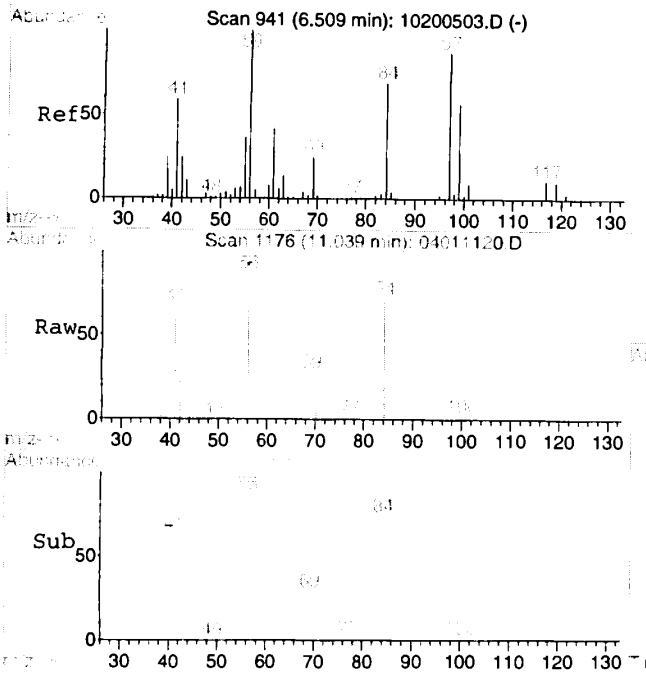


#20
n-Hexane
Concen: 61.75 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 57 Resp: 4978499

Ion	Ratio	Lower	Upper
57	100		
41	71.9	57.2	85.8
53	2.5	1.8	2.8
86	16.0	13.4	20.0

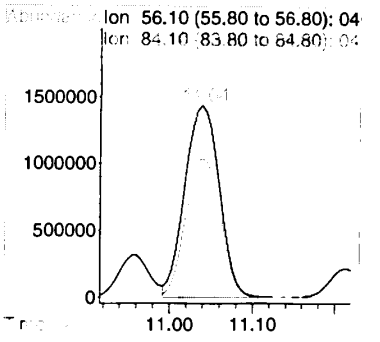


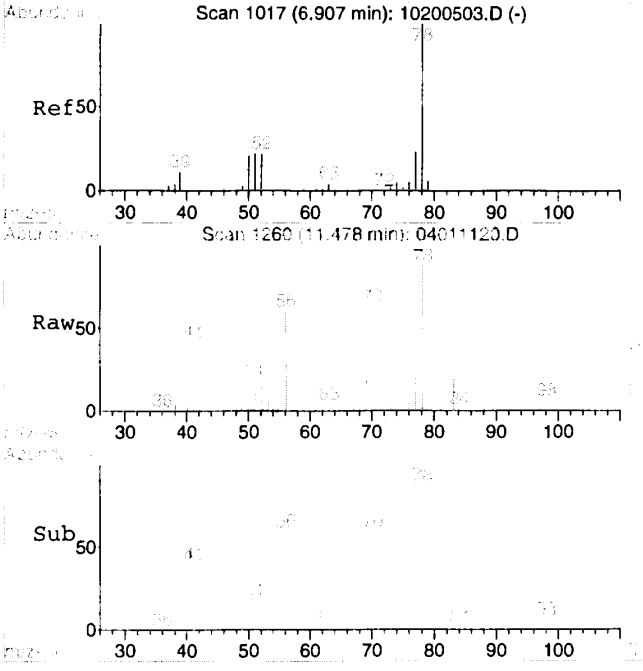


#29
Cyclohexane
Concen: 51.11 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 56 Resp: 4171506

Ion	Ratio	Lower	Upper
56	100		
84	73.2	72.4	108.6
41	66.5	43.8	65.8#

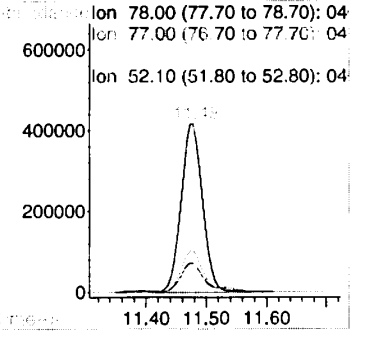


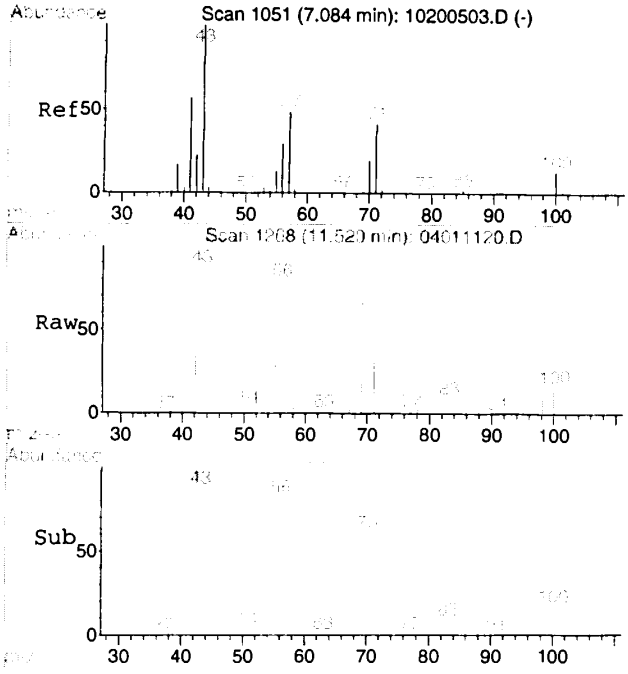


#31
Benzene
Concen: 7.63 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 78 Resp: 1041452

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	18.2	0.0	36.1
52	20.2	0.0	36.0

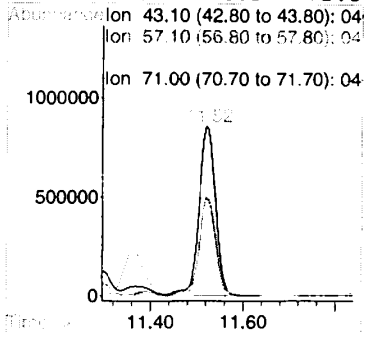


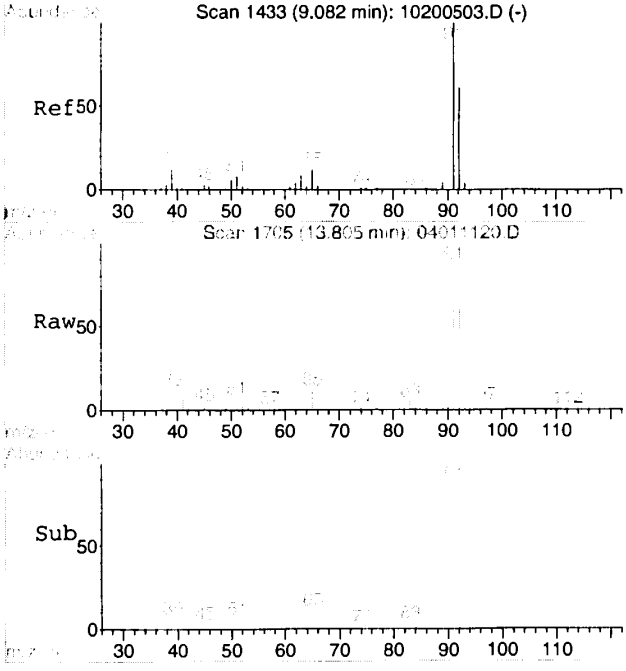


#34
Heptane
Concen: 21.61 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 43 Resp: 2154157

Ion	Ratio	Lower	Upper
43	100		
57	59.6	42.2	63.4
100	14.8	17.3	25.9#
71	57.6	48.3	72.5

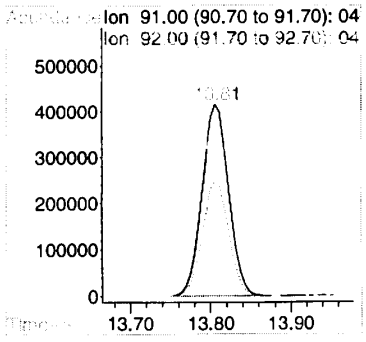


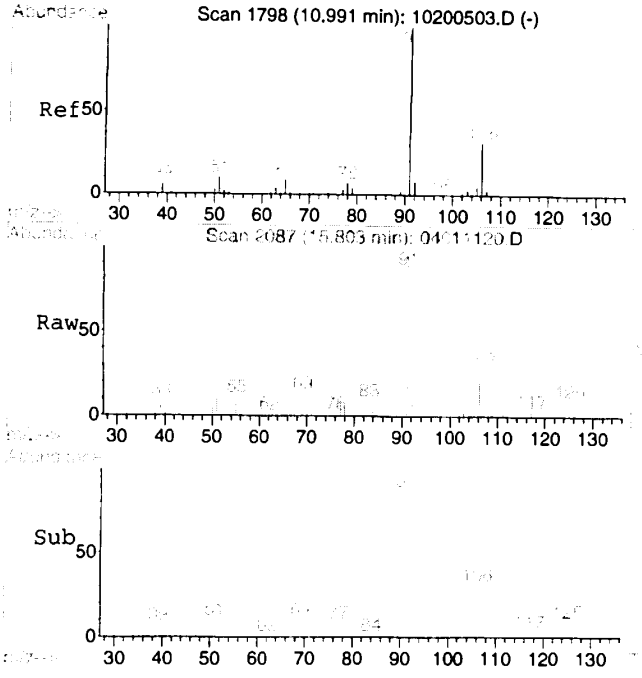


#41
Toluene
Concen: 6.16 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 91 Resp: 957455

Ion	Ratio	Lower	Upper
91	100		
92	59.4	40.5	80.5
65	12.0	0.0	31.2

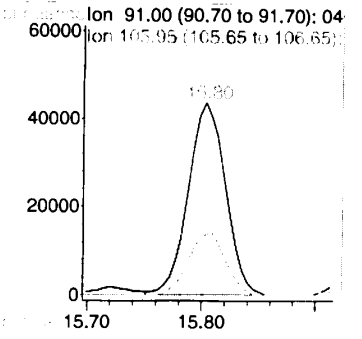


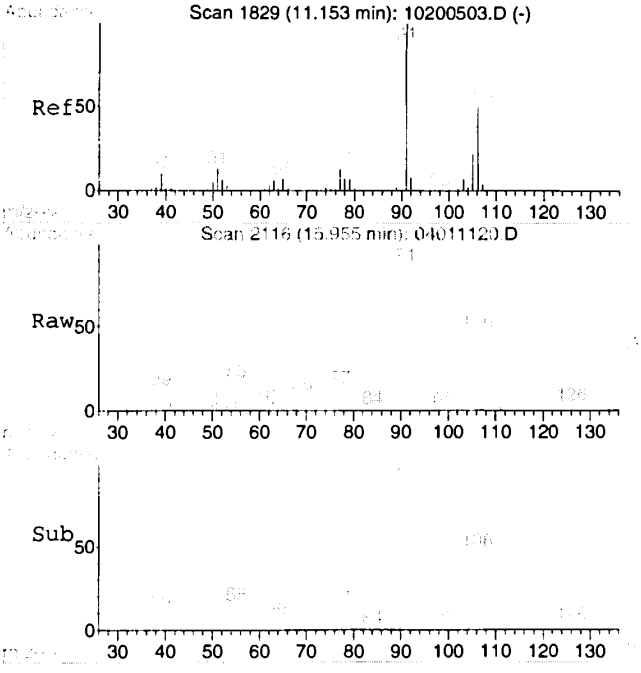


#50
Ethylbenzene
Concen: 0.52 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 91 Resp: 98295

Ion	Ratio	Lower	Upper
91	100		
106	31.9	14.9	54.9
51	11.0	0.0	33.1

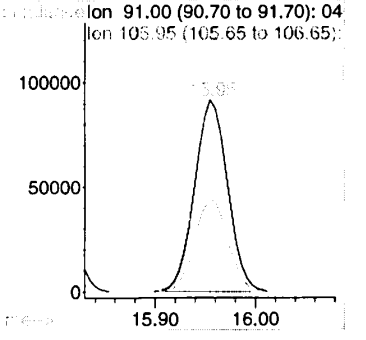


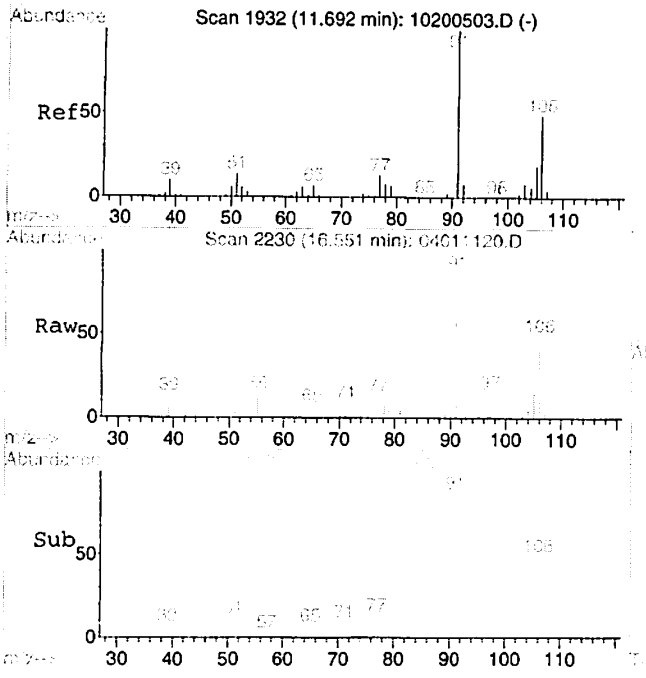


#51
m,p-Xylene
Concen: 1.45 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 91 Resp: 210350

Ion	Ratio	Lower	Upper
91	100		
106	48.5	35.6	75.6
51	11.4	0.0	29.6

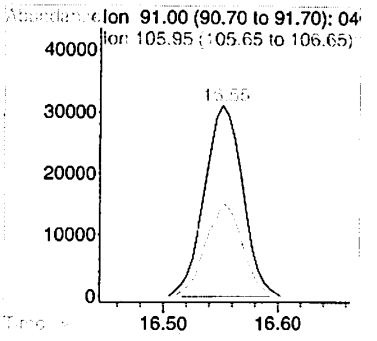




#52
o-Xylene
Concen: 0.51 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04011120.D
Acq: 2 Apr 2011 1:35 am

Tgt Ion: 91 Resp: 71911

Ion	Ratio	Lower	Upper
91	100		
106	46.5	41.0	61.6
51	14.0	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011120.D
Acq On : 2 Apr 2011 1:35 am
Sample : 1103389-002B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	61	91	138	rBV	1603349	8892811	35.64%	3.665%
2	6.321	258	274	290	rBV4	74978	326917	1.31%	0.135%
3	7.189	424	440	460	rBV	919332	3124787	12.52%	1.288%
4	7.566	492	512	533	rBV	2343979	7425802	29.76%	3.060%
5	8.188	617	631	647	rBV2	287714	913327	3.66%	0.376%
6	8.774	724	743	762	rBV2	7444794	24953606	100.00%	10.284%
7	8.936	762	774	788	rVV	848199	2504781	10.04%	1.032%
8	9.093	789	804	829	rVB	5008524	14750082	59.11%	6.079%
9	9.396	849	862	884	rVB	7006477	19716387	79.01%	8.125%
10	9.914	948	961	970	rBV	300427	818352	3.28%	0.337%
11	10.008	970	979	996	rVB2	764080	2045964	8.20%	0.843%
12	10.217	1004	1019	1044	rBV	6739872	19356056	77.57%	7.977%
13	10.693	1097	1110	1115	rBV2	174777	468583	1.88%	0.193%
14	10.767	1115	1124	1126	rVV	1262304	2609461	10.46%	1.075%
15	10.809	1127	1132	1147	rVV	2274450	5522809	22.13%	2.276%
16	10.955	1148	1160	1166	rVV	1436735	3619919	14.51%	1.492%
17	11.039	1166	1176	1196	rVV2	7799054	22552318	90.38%	9.294%
18	11.211	1197	1209	1219	rVV	1219807	3280156	13.15%	1.352%
19	11.295	1219	1225	1231	rVV	366942	923703	3.70%	0.381%
20	11.389	1231	1243	1251	rVV2	2017768	6070981	24.33%	2.502%
21	11.468	1251	1258	1263	rVV2	2569026	6518306	26.12%	2.686%
22	11.525	1263	1269	1291	rVB4	5906034	16154798	64.74%	6.658%
23	11.865	1322	1334	1353	rBV	2010154	4656102	18.66%	1.919%
24	12.200	1385	1398	1405	rBV	238888	569288	2.28%	0.235%
25	12.283	1405	1414	1422	rVV	1268208	3357422	13.45%	1.384%
26	12.393	1426	1435	1456	rVB	6634219	17834317	71.47%	7.350%
27	12.571	1456	1469	1474	rBV2	405594	1166047	4.67%	0.481%
28	12.623	1474	1479	1496	rVB	686215	1649561	6.61%	0.680%
29	12.801	1499	1513	1526	rBV	894438	2252392	9.03%	0.928%
30	12.948	1526	1541	1547	rBV2	1009208	2724600	10.92%	1.123%
31	13.005	1547	1552	1567	rVB	513441	1205220	4.83%	0.497%
32	13.152	1567	1580	1588	rBV2	683704	1896048	7.60%	0.781%
33	13.272	1596	1603	1611	rVB2	163586	388354	1.56%	0.160%
34	13.575	1647	1661	1674	rBV2	1313153	4358709	17.47%	1.796%
35	13.675	1674	1680	1694	rVV	993640	2215379	8.88%	0.913%
36	13.811	1694	1706	1721	rVB3	1203710	3556407	14.25%	1.466%
37	13.936	1721	1730	1743	rVB5	118514	361389	1.45%	0.149%
38	14.077	1743	1757	1770	rBV2	652995	1725384	6.91%	0.711%
39	14.203	1770	1781	1791	rBV6	231254	674317	2.70%	0.278%
40	14.287	1791	1797	1806	rBV	152911	308494	1.24%	0.127%
41	14.689	1866	1874	1886	rBV3	88104	249806	1.00%	0.103%
42	14.830	1886	1901	1907	rVV	630788	1831713	7.34%	0.755%
43	14.888	1907	1912	1919	rVV	538699	1304432	5.23%	0.538%

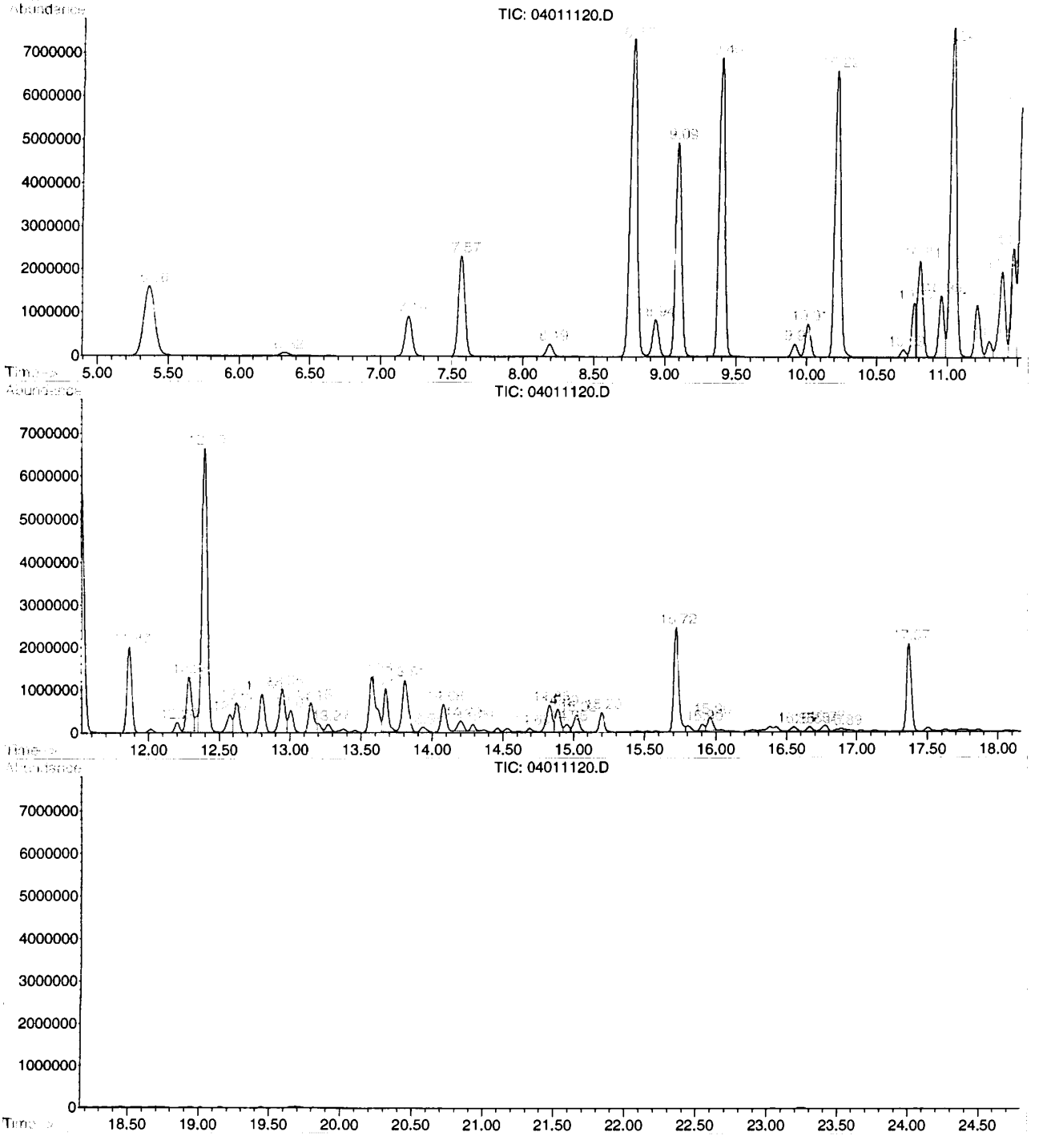
44	14.951	1919	1924	1929	rVV3	182079	442349	1.77%	0.182%
45	15.019	1930	1937	1955	rVB3	394078	1109691	4.45%	0.457%
46	15.197	1959	1971	1990	rBB2	457068	1124914	4.51%	0.464%
47	15.720	2059	2071	2084	rBV	2452251	6007415	24.07%	2.476%
48	15.903	2098	2106	2111	rBV2	163304	393639	1.58%	0.162%
49	15.960	2111	2117	2127	rVB2	305265	778140	3.12%	0.321%
50	16.551	2220	2230	2241	rVB4	107890	312872	1.25%	0.129%
51	16.661	2241	2251	2261	rBV4	106304	302444	1.21%	0.125%
52	16.771	2261	2272	2282	rVB4	139803	419942	1.68%	0.173%
53	16.891	2282	2295	2302	rBV8	63650	251771	1.01%	0.104%
54	17.372	2375	2387	2402	rVB	2059786	4676063	18.74%	1.927%

Sum of corrected areas: 242654527

04011120.D 031611V1.M Thu Apr 14 12:02:57 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011120.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 1:35 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-002B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 1
Quant File :031611V1.RES (RTE Integrator)



04011120.D 031611V1.M Thu Apr 14 12:02:57 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011120.D
Acq On : 2 Apr 2011 1:35 am
Sample : 1103389-002B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	42.60 ppbv	8892810	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	14.97 ppbv	3124790	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	87
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Methane, isocyanato- $$ Isocyanic a	57	C2H3NO	000624-83-9	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Pentane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	35.57 ppbv	7425800	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	39
5	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	36

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	4.38 ppbv	913327	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2-iodo-3-methyl-	198	C5H11I	000000-00-0	42

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	119.53 ppbv	24953600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	74
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	52

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	70.66 ppbv	14750100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	39

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	9.80 ppbv	2045960	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	92.72 ppbv	19356100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
5	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	17.34 ppbv	3619920	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	15.71 ppbv	3280160	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	35

****

Peak Number 11 Pentane, 3-ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	4.42 ppbv	923703	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-ethyl-	100	C7H16	000617-78-7	90
2	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	72
3	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	64
4	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	56
5	Pyrrolidine	71	C4H9N	000123-75-1	56

****

Peak Number 12 Cyclopentane, 1,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.39	16.30 ppbv	6070980	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	94
2	Isopropylcyclobutane $$ Cyclobutane	98	C7H14	000872-56-0	53
3	2-Hexene, 5-methyl-, (E)- $$ (E)-5-	98	C7H14	007385-82-2	43
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	42
5	1-Heptene, 5-methyl- $$ 5-Methyl-1-	112	C8H16	013151-04-7	40

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	9.01 ppbv	3357420	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	72
2	Cyclopentane, 1,1,3-trimethyl- $$ 1	112	C8H16	004516-69-2	72
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	49
4	(1R,2R)-(-)-1,2-Diaminocyclohexane	114	C6H14N2	020439-47-8	47
5	2-Heptene, 6-methyl- $$ 6-Methyl-2-	112	C8H16	073548-72-8	38

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	47.88 ppbv	17834300	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	59

****

Peak Number 15 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	4.43 ppbv	1649560	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	87
3	Cyclobutane, 2-ethyl-1-methyl-3-pro	140	C10H20	061233-72-5	56
4	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	56
5	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclopentane, 1,2,3-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	6.05 ppbv	2252390	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	86
2	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	015890-40-1	78
3	trans-1-Butyl-2-methylcyclopropane	112	C8H16	038851-70-6	64
4	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	62
5	1-Octene, 3-methyl-	126	C9H18	013151-08-1	53

****

Peak Number 17 Heptane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	7.31 ppbv	2724600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
4	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	52
5	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	38

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	5.09 ppbv	1896050	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011120.D Vial: 1
Acq On : 2 Apr 2011 1:35 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	11.70 ppbv	4358710	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 20 Octane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	5.95 ppbv	2215380	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 1:35 am
Data File: C:\HPCHEM\1\DATA\040111\04011120.D
Name: 1103389-002B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	42.6	ppbv	8892810	ISTD01	10.77	2609460	12.5
Butane, 2-methyl-	7.19	15.0	ppbv	3124790	ISTD01	10.77	2609460	12.5
Pentane	7.57	35.6	ppbv	7425800	ISTD01	10.77	2609460	12.5
Butane, 2,2-dimethyl	8.19	4.4	ppbv	913327	ISTD01	10.77	2609460	12.5
Pentane, 2-methyl-	8.77	119.5	ppbv	24953600	ISTD01	10.77	2609460	12.5
Pentane, 3-methyl-	9.09	70.7	ppbv	14750100	ISTD01	10.77	2609460	12.5
Pentane, 2,4-dimethy	10.01	9.8	ppbv	2045960	ISTD01	10.77	2609460	12.5
Cyclopentane, methyl	10.22	92.7	ppbv	19356100	ISTD01	10.77	2609460	12.5
Pentane, 2,3-dimethy	10.96	17.3	ppbv	3619920	ISTD01	10.77	2609460	12.5
Cyclopentane, 1,1-di	11.21	15.7	ppbv	3280160	ISTD01	10.77	2609460	12.5
Pentane, 3-ethyl-	11.29	4.4	ppbv	923703	ISTD01	10.77	2609460	12.5
Cyclopentane, 1,3-di	11.39	16.3	ppbv	6070980	ISTD02	11.87	4656100	12.5
Cyclopentane, 1,1,3-	12.28	9.0	ppbv	3357420	ISTD02	11.87	4656100	12.5
Cyclohexane, methyl-	12.39	47.9	ppbv	17834300	ISTD02	11.87	4656100	12.5
Cyclopentane, 1,2,4-	12.62	4.4	ppbv	1649560	ISTD02	11.87	4656100	12.5
Cyclopentane, 1,2,3-	12.80	6.0	ppbv	2252390	ISTD02	11.87	4656100	12.5
Heptane, 2-methyl-	12.95	7.3	ppbv	2724600	ISTD02	11.87	4656100	12.5
Heptane, 3-methyl-	13.15	5.1	ppbv	1896050	ISTD02	11.87	4656100	12.5
Cyclohexane, 1,3-dim	13.58	11.7	ppbv	4358710	ISTD02	11.87	4656100	12.5
Octane	13.67	5.9	ppbv	2215380	ISTD02	11.87	4656100	12.5

04011120.D 031611V1.M Thu Apr 14 12:02:58 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:12 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

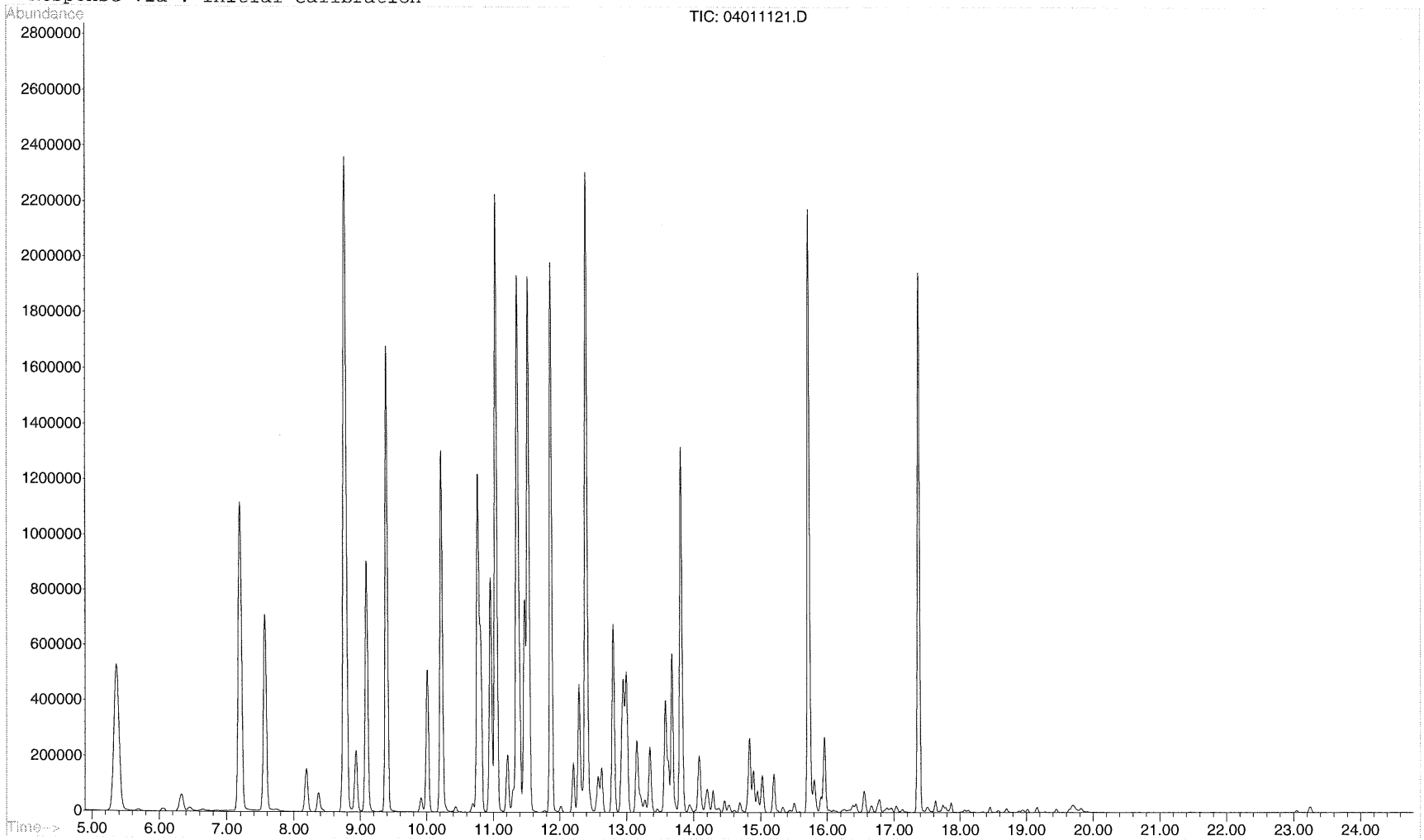
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	550086	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2039328	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1531431	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	915031	11.92	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.36%				
Target Compounds							Qvalue
14) Acetone	8.37	43	138351	2.04	ppbv	#	96
20) n-Hexane	9.39	57	1068695	13.30	ppbv		97
29) Cyclohexane	11.04	56	1058572	13.02	ppbv	#	80
31) Benzene	11.48	78	516394	3.80	ppbv		93
34) Heptane	11.52	43	831830	8.45	ppbv	#	93
41) Toluene	13.81	91	1206192	7.85	ppbv		98
50) Ethylbenzene	15.81	91	98054	0.55	ppbv		94
51) m,p-Xylene	15.96	91	197242	1.43	ppbv		92

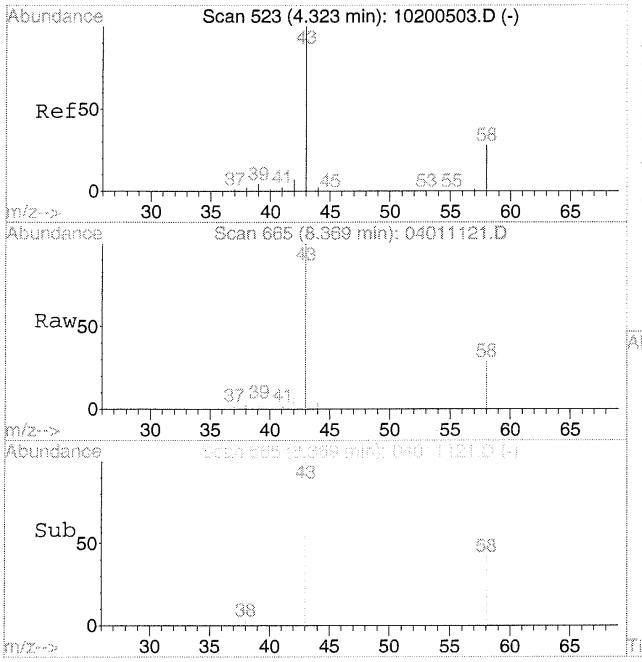
(#) = qualifier out of range (m) = manual integration
04011121.D 031611V1.M Thu Apr 14 12:03:04 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:12 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

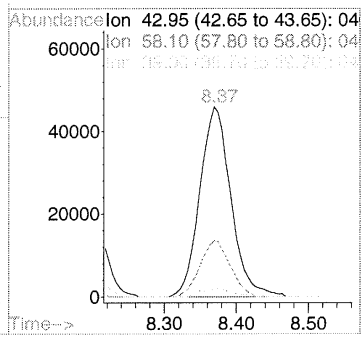


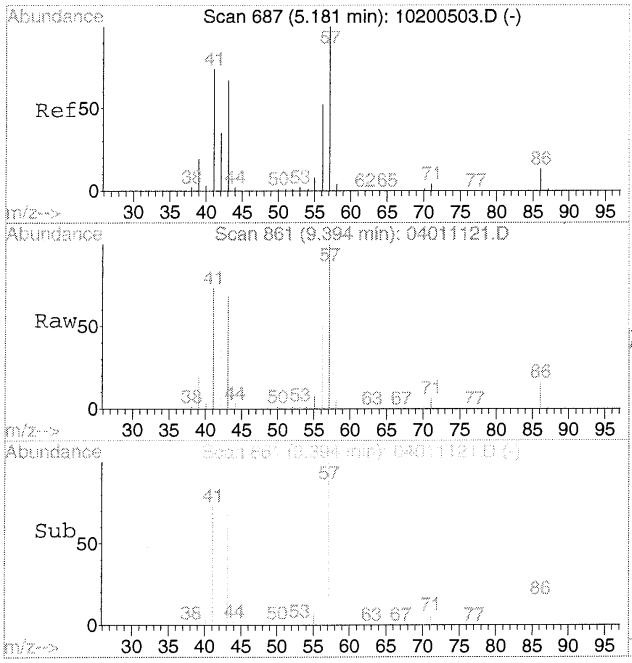


#14
Acetone
Concen: 2.04 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 43 Resp: 138351

Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.0	33.0
39	4.5	6.5	9.7#

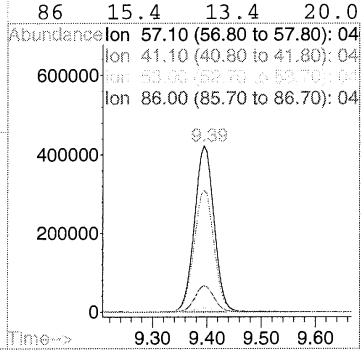


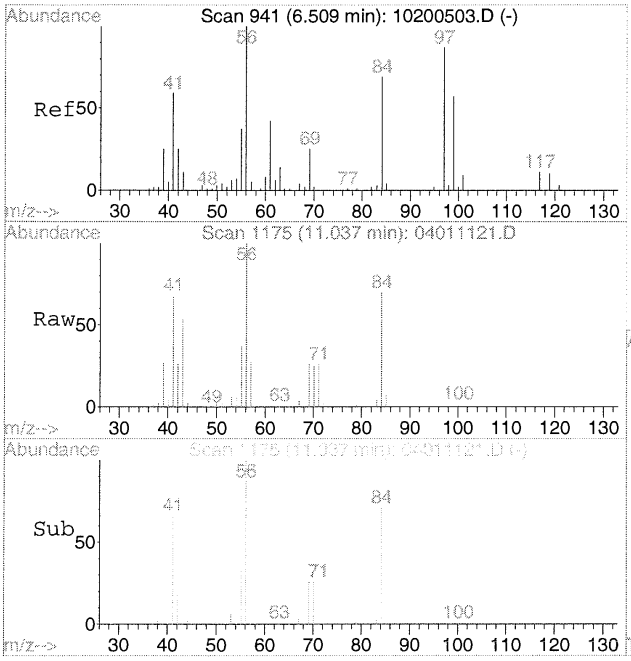


#20
n-Hexane
Concen: 13.30 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 57 Resp: 1068695

Ion	Ratio	Lower	Upper
57	100		
41	74.0	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

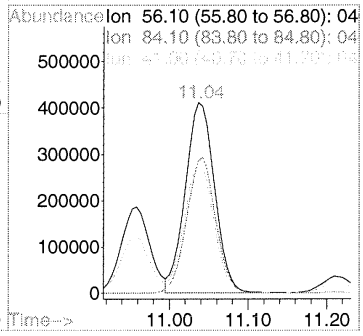


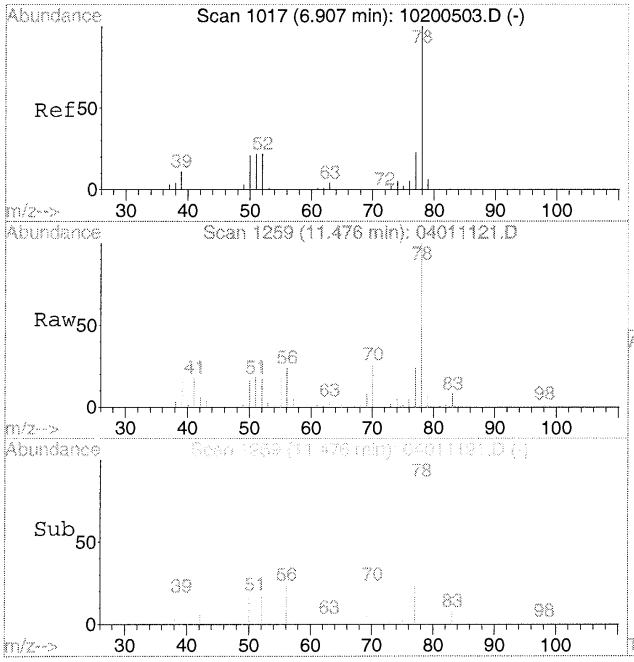


#29
Cyclohexane
Concen: 13.02 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 56 Resp: 1058572

Ion	Ratio	Lower	Upper
56	100		
84	70.9	72.4	108.6#
41	68.9	43.8	65.8#

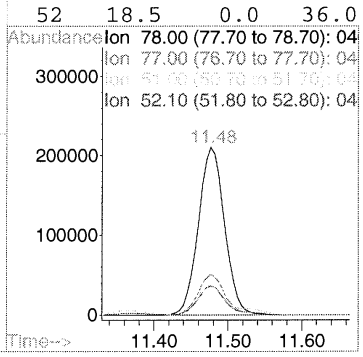


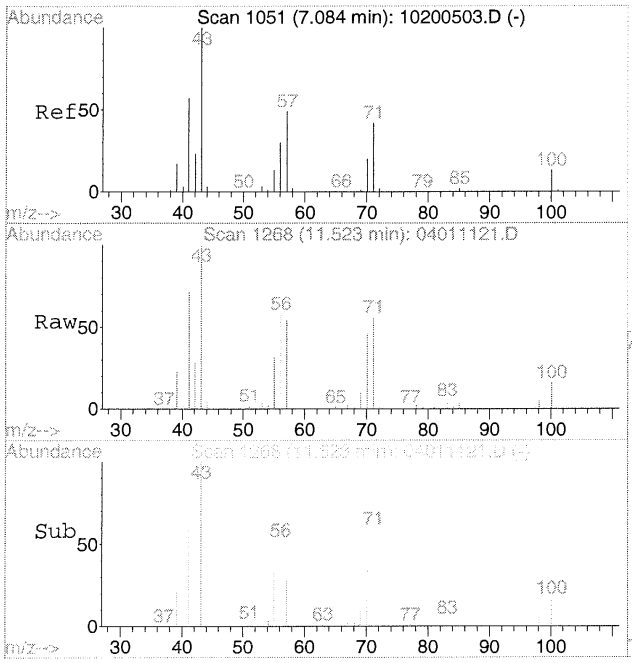


#31
Benzene
Concen: 3.80 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 78 Resp: 516394

Ion	Ratio	Lower	Upper
78	100		
77	25.3	3.7	43.7
51	22.2	0.0	36.1
52	18.5	0.0	36.0

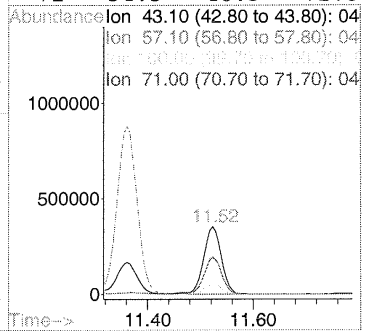


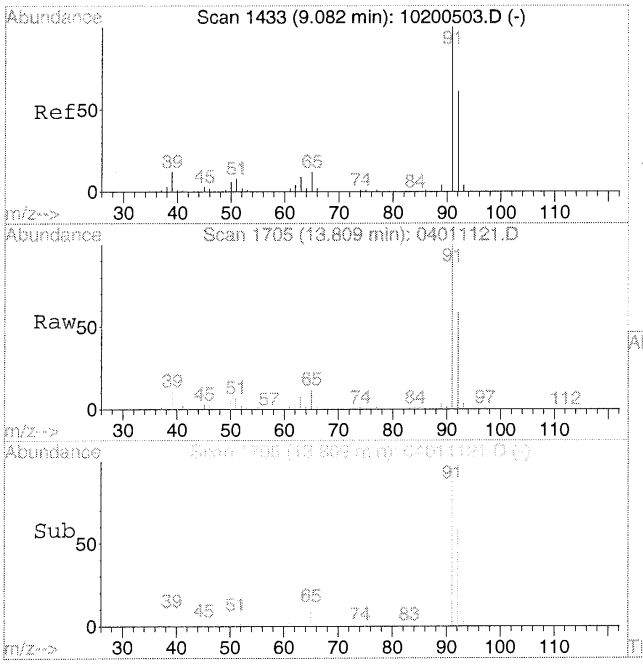


#34
Heptane
Concen: 8.45 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 43 Resp: 831830

Ion	Ratio	Lower	Upper
43	100		
57	55.6	42.2	63.4
100	14.7	17.3	25.9#
71	54.5	48.3	72.5

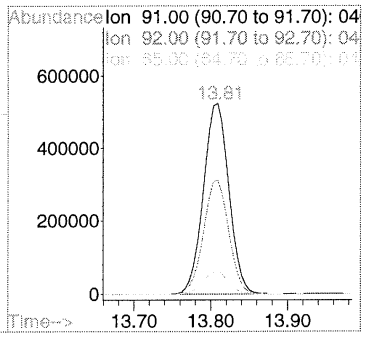


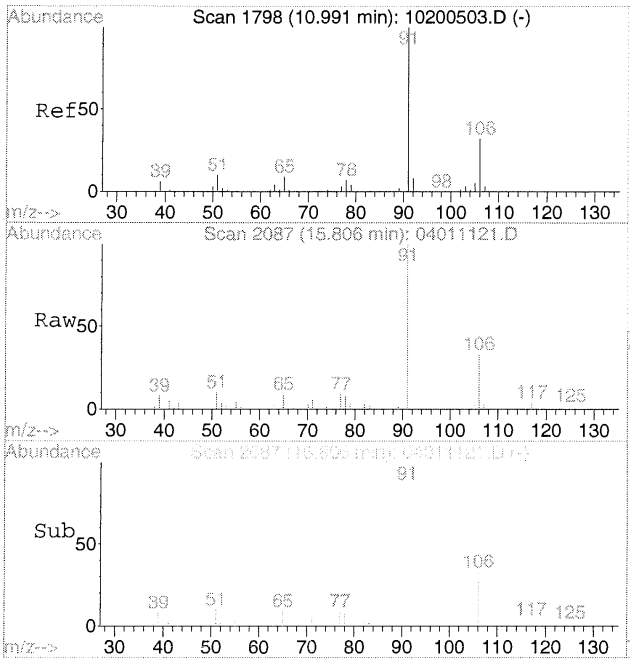


#41
Toluene
Concen: 7.85 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.01 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 91 Resp: 1206192

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.6	0.0	31.2

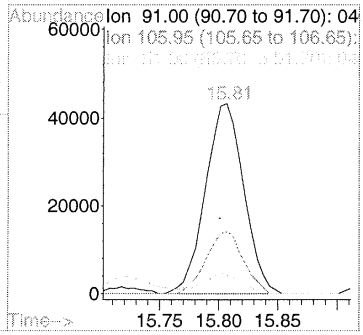


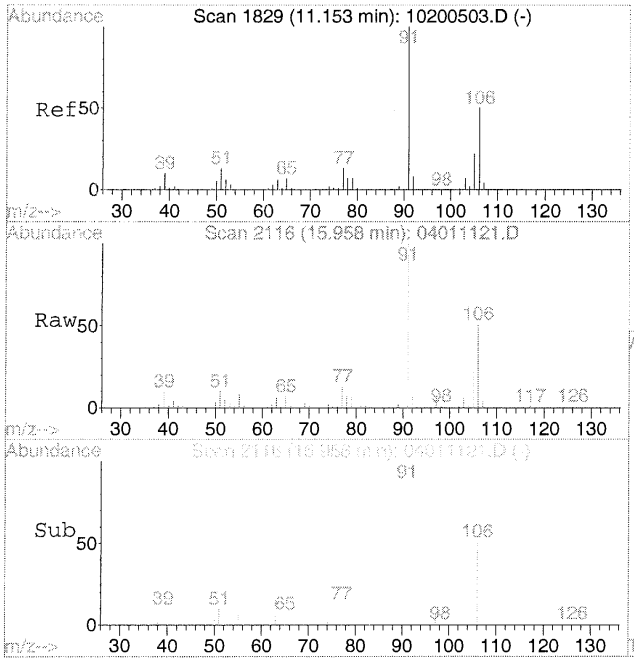


#50
Ethylbenzene
Concen: 0.55 ppbv
RT: 15.81 min Scan# 2087
Delta R.T. 0.01 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 91 Resp: 98054

Ion	Ratio	Lower	Upper
91	100		
106	31.6	14.9	54.9
51	10.8	0.0	33.1

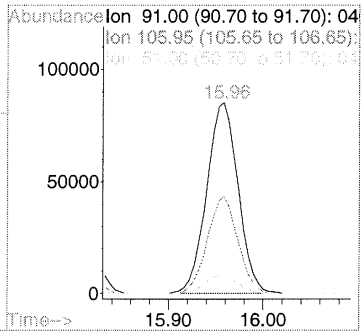




#51
m,p-Xylene
Concen: 1.43 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011121.D
Acq: 2 Apr 2011 2:16 am

Tgt Ion: 91 Resp: 197242

Ion	Ratio	Lower	Upper
91	100		
106	49.3	35.6	75.6
51	10.1	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.362	66	90	125	rBV	528227	2858222	36.63%	3.099%
2	6.329	260	275	289	rBV5	61623	258660	3.31%	0.280%
3	7.198	424	441	462	rBV	1116348	3822836	48.99%	4.145%
4	7.564	495	511	533	rBV	707470	2209707	28.32%	2.396%
5	8.186	617	630	646	rBV	155922	496226	6.36%	0.538%
6	8.369	649	665	677	rBV	68668	216256	2.77%	0.234%
7	8.772	724	742	762	rBV2	2363002	7803429	100.00%	8.461%
8	8.934	762	773	789	rVV	221029	649264	8.32%	0.704%
9	9.091	790	803	827	rVB	905445	2528948	32.41%	2.742%
10	9.394	848	861	877	rBV	1678784	4238256	54.31%	4.595%
11	9.912	950	960	968	rBV	51787	140814	1.80%	0.153%
12	10.011	968	979	996	rVB	512090	1359636	17.42%	1.474%
13	10.221	1006	1019	1043	rBV	1304546	3483217	44.64%	3.777%
14	10.691	1098	1109	1113	rBV2	31372	79065	1.01%	0.086%
15	10.765	1113	1123	1129	rBV	1202183	3191434	40.90%	3.460%
16	10.958	1148	1160	1167	rBV	844607	2177765	27.91%	2.361%
17	11.037	1167	1175	1192	rVB2	2225876	5687324	72.88%	6.167%
18	11.214	1198	1209	1218	rBV	202484	540078	6.92%	0.586%
19	11.298	1218	1225	1226	rVV2	79589	135005	1.73%	0.146%
20	11.361	1227	1237	1250	rVV	1933355	5854286	75.02%	6.348%
21	11.476	1250	1259	1262	rVV3	764146	1845026	23.64%	2.001%
22	11.523	1262	1268	1291	rVB2	1928754	4916640	63.01%	5.331%
23	11.863	1322	1333	1351	rBV	1981699	4600825	58.96%	4.989%
24	12.203	1388	1398	1405	rBV	177421	416406	5.34%	0.452%
25	12.287	1405	1414	1424	rVV	460294	1240545	15.90%	1.345%
26	12.396	1425	1435	1455	rVV	2308680	5874938	75.29%	6.370%
27	12.574	1457	1469	1474	rVV4	128840	374242	4.80%	0.406%
28	12.627	1474	1479	1490	rVB2	158835	367736	4.71%	0.399%
29	12.799	1500	1512	1526	rBV2	677895	1725666	22.11%	1.871%
30	12.946	1526	1540	1544	rBV3	478683	1387054	17.77%	1.504%
31	13.150	1567	1579	1596	rBV2	256471	834830	10.70%	0.905%
32	13.270	1597	1602	1608	rVV3	43003	103924	1.33%	0.113%
33	13.343	1608	1616	1630	rVB	234078	610967	7.83%	0.662%
34	13.578	1645	1661	1673	rBV2	400426	1389346	17.80%	1.506%
35	13.673	1673	1679	1693	rVV	565717	1277235	16.37%	1.385%
36	13.809	1693	1705	1721	rVB	1317017	3259957	41.78%	3.535%
37	14.081	1740	1757	1770	rBV3	201477	587241	7.53%	0.637%
38	14.201	1770	1780	1790	rVV5	74825	219224	2.81%	0.238%
39	14.290	1790	1797	1804	rBV2	69450	140938	1.81%	0.153%
40	14.457	1820	1829	1836	rBV2	41041	97970	1.26%	0.106%
41	14.687	1866	1873	1880	rBV2	36458	85542	1.10%	0.093%
42	14.834	1886	1901	1907	rBV	264919	730850	9.37%	0.792%
43	14.891	1907	1912	1918	rVV	149200	350919	4.50%	0.380%

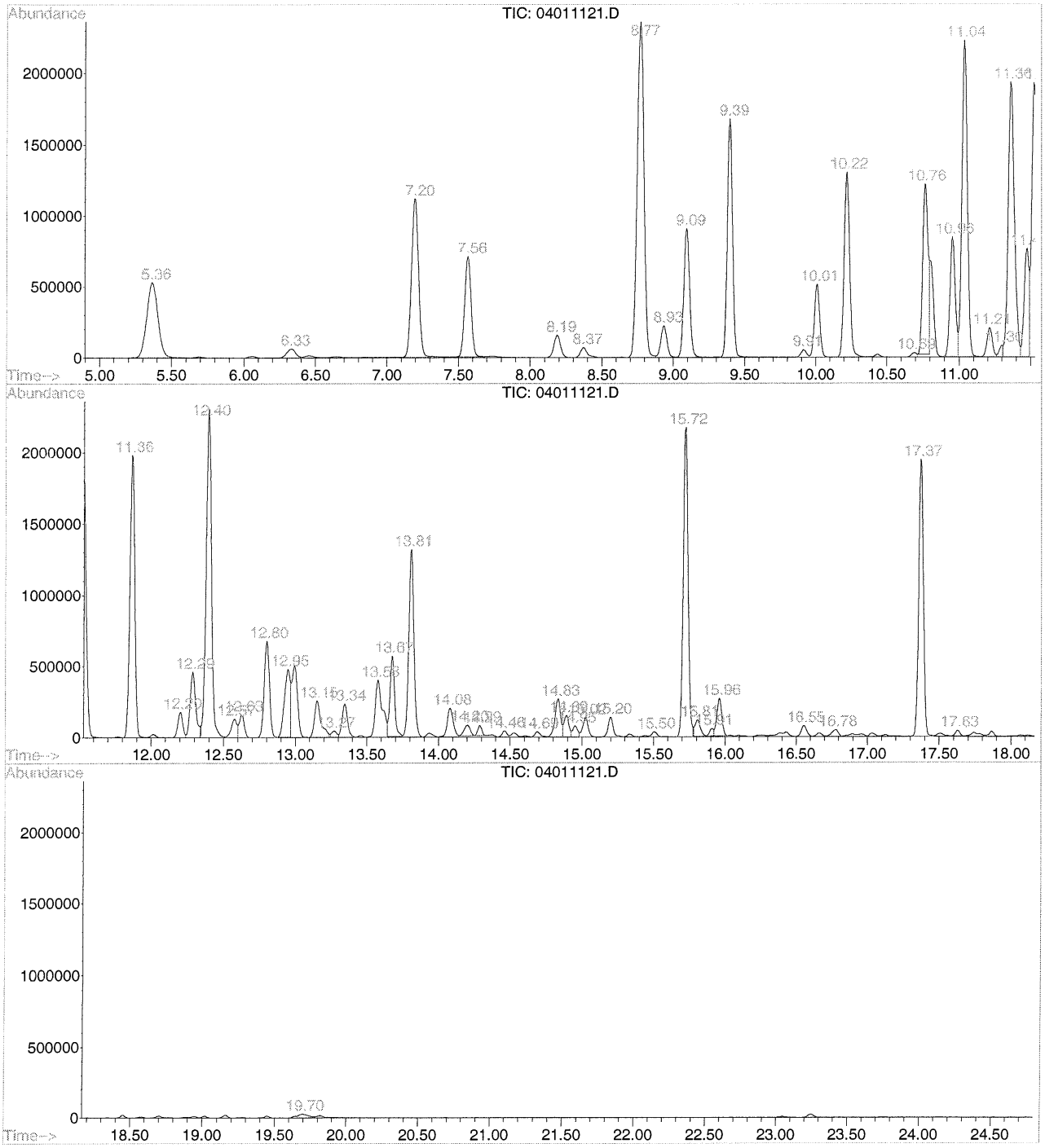
44	14.949	1918	1923	1929	rVV2	78118	186536	2.39%	0.202%
45	15.022	1929	1937	1950	rVB2	133059	352814	4.52%	0.383%
46	15.200	1959	1971	1988	rBB2	137682	345019	4.42%	0.374%
47	15.503	2022	2029	2039	rVB	34670	83451	1.07%	0.090%
48	15.723	2059	2071	2081	rBV	2176101	5092014	65.25%	5.521%
49	15.806	2082	2087	2098	rVV2	115296	291999	3.74%	0.317%
50	15.906	2098	2106	2109	rVV2	53133	109201	1.40%	0.118%
51	15.958	2109	2116	2127	rVB	262979	636956	8.16%	0.691%
52	16.554	2218	2230	2241	rBV2	77050	202487	2.59%	0.220%
53	16.779	2261	2273	2281	rVB6	46181	137431	1.76%	0.149%
54	17.370	2373	2386	2403	rBV	1946093	4421738	56.66%	4.794%
55	17.627	2428	2435	2443	rBV2	40231	78355	1.00%	0.085%
56	19.698	2823	2831	2847	rVV3	25525	120617	1.55%	0.131%

Sum of corrected areas: 92227067

04011121.D 031611V1.M Thu Apr 14 12:03:12 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011121.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 2:16 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-031B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 2
Quant File :031611V1.RES (RTE Integrator)



04011121.D 031611V1.M Thu Apr 14 12:03:12 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	11.19 ppbv	2858220	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	14.97 ppbv	3822840	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	8.65 ppbv	2209710	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	1.94 ppbv	496226	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	38

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	30.56 ppbv	7803430	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	90
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 6 Cyclopentane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	2.54 ppbv	649264	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	68
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	64
3	1-Pentene	70	C5H10	000109-67-1	64
4	1-Pentene	70	C5H10	000109-67-1	42
5	Cyclopropane, ethyl- $$ Ethylcyclop	70	C5H10	001191-96-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	9.91 ppbv	2528950	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	43
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

****

Peak Number 8 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	5.33 ppbv	1359640	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64

****

Peak Number 9 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	13.64 ppbv	3483220	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	8.53 ppbv	2177770	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 11 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.12 ppbv	540078	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	83
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	53
4	1-Hexyn-3-ol	98	C6H10O	000105-31-7	38
5	Pyridine, 2,3,4,5-tetrahydro- $$ .d	83	C5H9N	000505-18-0	27

****

Peak Number 12 Pentane, 2,2,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	15.91 ppbv	5854290	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	64
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	3.37 ppbv	1240550	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
2	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	38
5	(1S,2S)-(+)-1,2-Diaminocyclohexane	114	C6H14N2	021436-03-3	38

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	15.96 ppbv	5874940	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	59

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	4.69 ppbv	1725670	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	80
3	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	3.77 ppbv	1387050	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	72
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	72
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.27 ppbv	834830	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	56
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	50

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.77 ppbv	1389350	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91

Data File : C:\HPCHEM\1\DATA\040111\04011121.D Vial: 2
Acq On : 2 Apr 2011 2:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Heptane, 2,4-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.47 ppbv	1277240	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Octane	114	C8H18	000111-65-9	64

****

Peak Number 20 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.79 ppbv	730850	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 2:16 am
Data File: C:\HPCHEM\1\DATA\040111\04011121.D
Name: 1103389-031B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	11.2	ppbv	2858220	ISTD01	10.76	3191430	12.5
Butane, 2-methyl-	7.20	15.0	ppbv	3822840	ISTD01	10.76	3191430	12.5
Pentane $$ n-Pentane	7.56	8.7	ppbv	2209710	ISTD01	10.76	3191430	12.5
Butane, 2,2-dimethyl	8.19	1.9	ppbv	496226	ISTD01	10.76	3191430	12.5
Pentane, 2-methyl-	8.77	30.6	ppbv	7803430	ISTD01	10.76	3191430	12.5
Cyclopentane	8.93	2.5	ppbv	649264	ISTD01	10.76	3191430	12.5
Pentane, 3-methyl-	9.09	9.9	ppbv	2528950	ISTD01	10.76	3191430	12.5
Pentane, 2,4-dimethy	10.01	5.3	ppbv	1359640	ISTD01	10.76	3191430	12.5
Cyclopentane, methyl	10.22	13.6	ppbv	3483220	ISTD01	10.76	3191430	12.5
Pentane, 2,3-dimethy	10.96	8.5	ppbv	2177770	ISTD01	10.76	3191430	12.5
Cyclopentane, 1,1-di	11.21	2.1	ppbv	540078	ISTD01	10.76	3191430	12.5
Pentane, 2,2,4-trime	11.36	15.9	ppbv	5854290	ISTD02	11.87	4600830	12.5
Hexane, 2,4-dimethyl	12.29	3.4	ppbv	1240550	ISTD02	11.87	4600830	12.5
Cyclohexane, methyl-	12.40	16.0	ppbv	5874940	ISTD02	11.87	4600830	12.5
Pentane, 2,3,4-trime	12.80	4.7	ppbv	1725670	ISTD02	11.87	4600830	12.5
Heptane, 2-methyl-	12.95	3.8	ppbv	1387050	ISTD02	11.87	4600830	12.5
Heptane, 3-methyl-	13.15	2.3	ppbv	834830	ISTD02	11.87	4600830	12.5
Cyclohexane, 1,3-dim	13.58	3.8	ppbv	1389350	ISTD02	11.87	4600830	12.5
Heptane, 2,4-dimethy	13.67	3.5	ppbv	1277240	ISTD02	11.87	4600830	12.5
Cyclohexane, ethyl-	14.83	1.8	ppbv	730850	ISTD03	15.72	5092010	12.5

04011121.D 031611V1.M Thu Apr 14 12:03:13 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:15 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

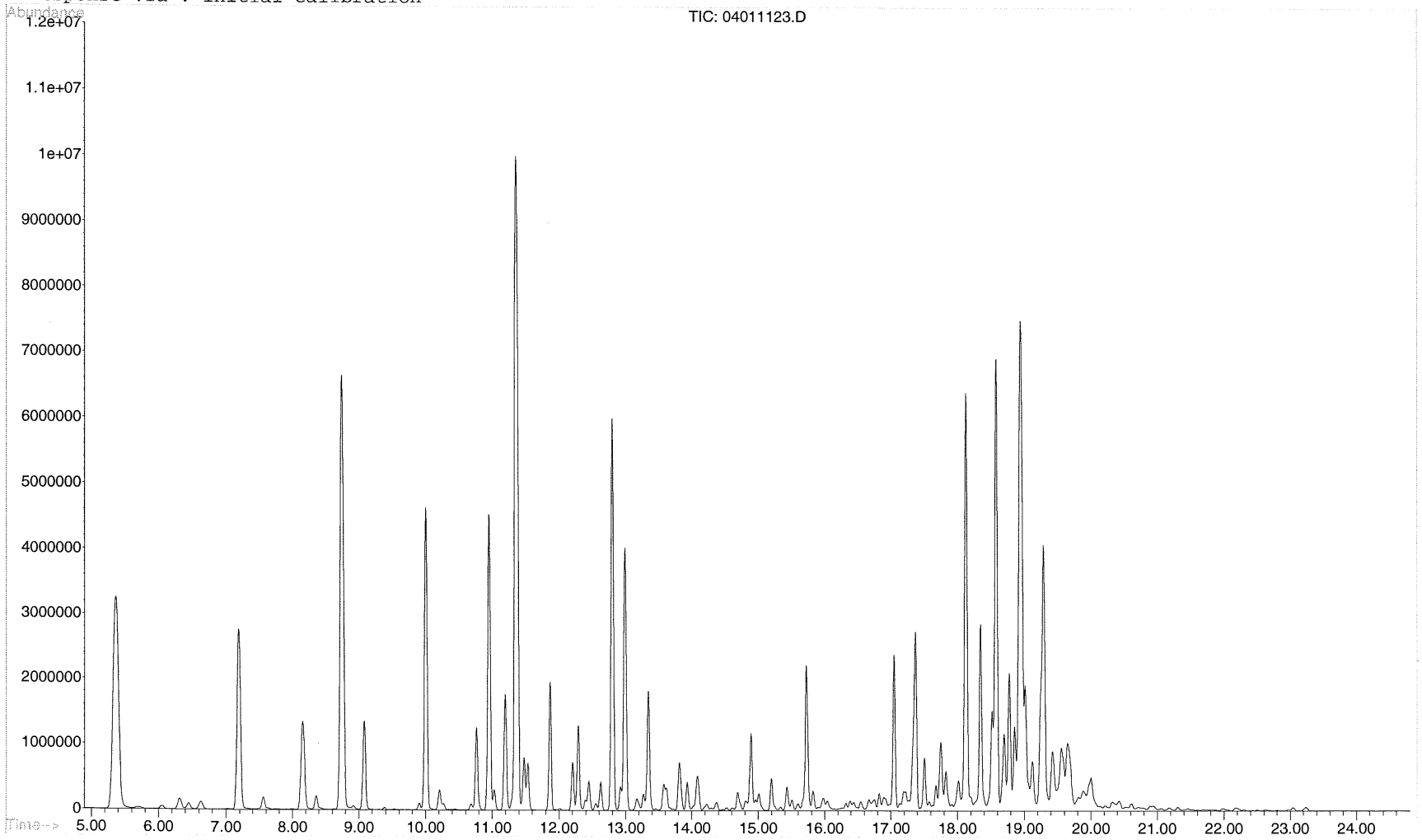
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	534419	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1973142	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1553026	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1003582	12.89	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 103.12%				
Target Compounds							Qvalue
11) Ethanol	7.75	45	6737	0.76	ppbv	#	70
12) Freon113	8.14	101	682095	6.76	ppbv		87
14) Acetone	8.36	43	392001	5.95	ppbv	#	98
27) Chloroform	10.78	83	60909	0.65	ppbv	#	70
29) Cyclohexane	11.03	56	102741	1.30	ppbv	#	59
30) Carbon tetrachloride	11.19	117	1253783	13.01	ppbv		99
31) Benzene	11.48	78	701277	5.31	ppbv		96
34) Heptane	11.53	43	53650	0.56	ppbv	#	57
35) Trichloroethene	12.20	130	148731	2.21	ppbv		96
41) Toluene	13.81	91	531428	3.57	ppbv		97

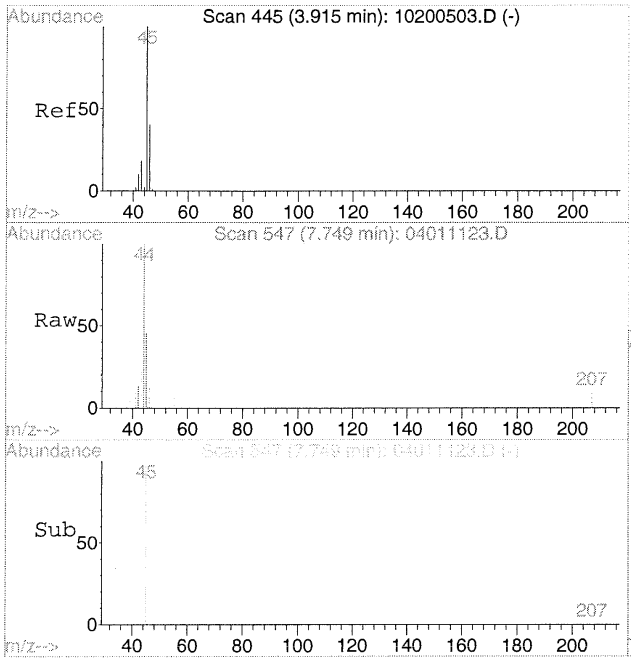
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:15 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

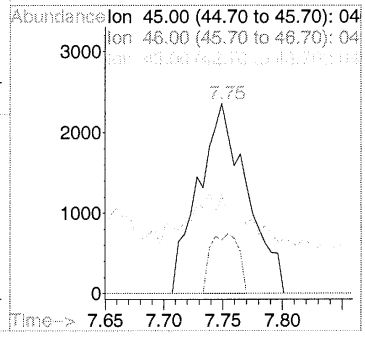


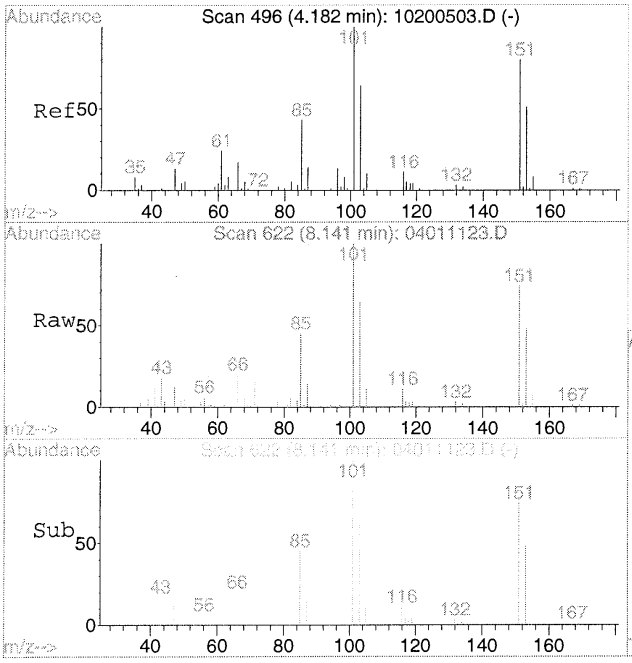


#11
Ethanol
Concen: 0.76 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 45 Resp: 6737

Ion	Ratio	Lower	Upper
45	100		
46	18.1	30.2	45.4#
43	31.2	15.8	23.6#

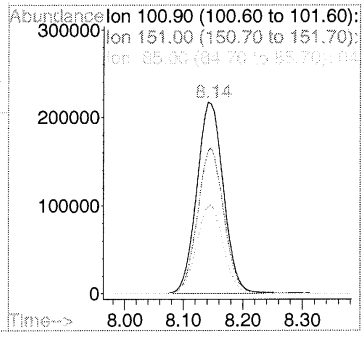


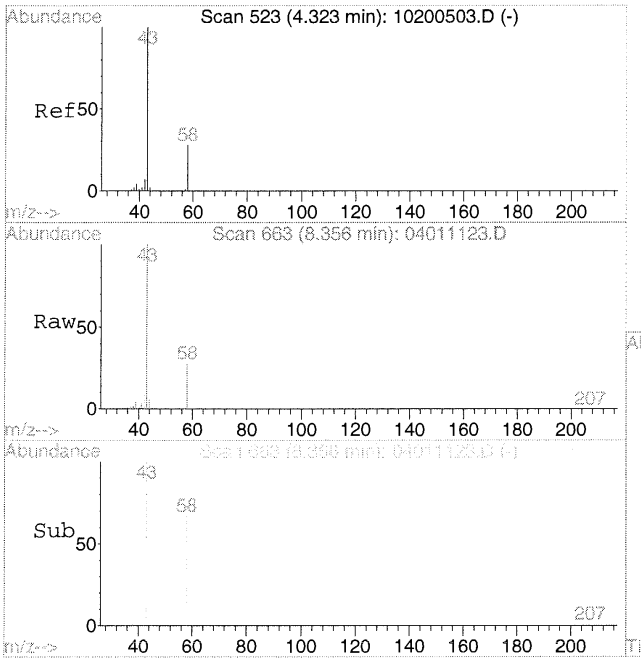


#12
Freon113
Concen: 6.76 ppbv
RT: 8.14 min Scan# 622
Delta R.T. -0.02 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion:101 Resp: 682095

Ion	Ratio	Lower	Upper
101	100		
151	75.0	70.5	105.7
85	46.3	32.0	48.0

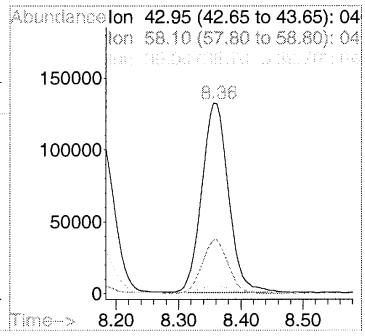


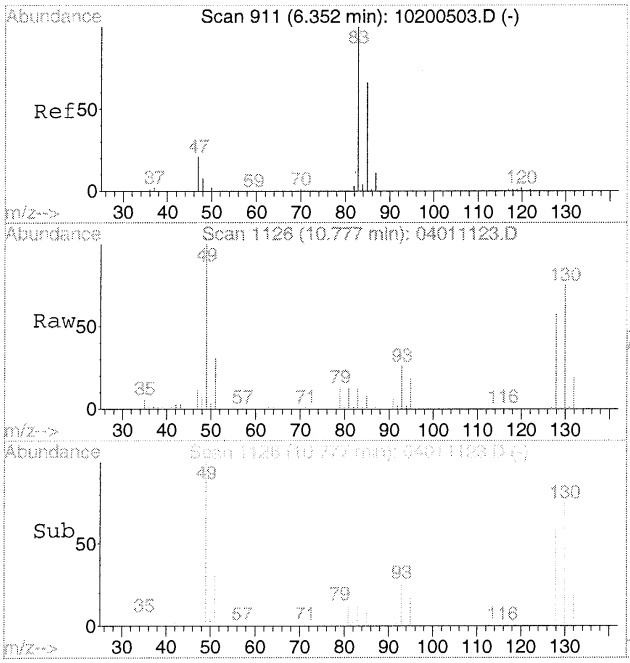


#14
Acetone
Concen: 5.95 ppbv
RT: 8.36 min Scan# 663
Delta R.T. -0.00 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 43 Resp: 392001

Ion	Ratio	Lower	Upper
43	100		
58	27.7	22.0	33.0
39	5.0	6.5	9.7#

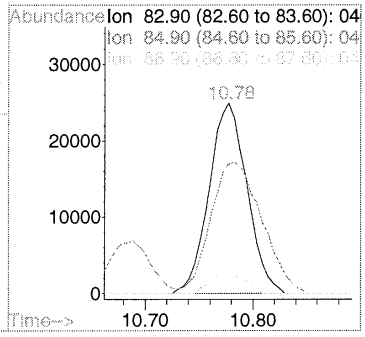


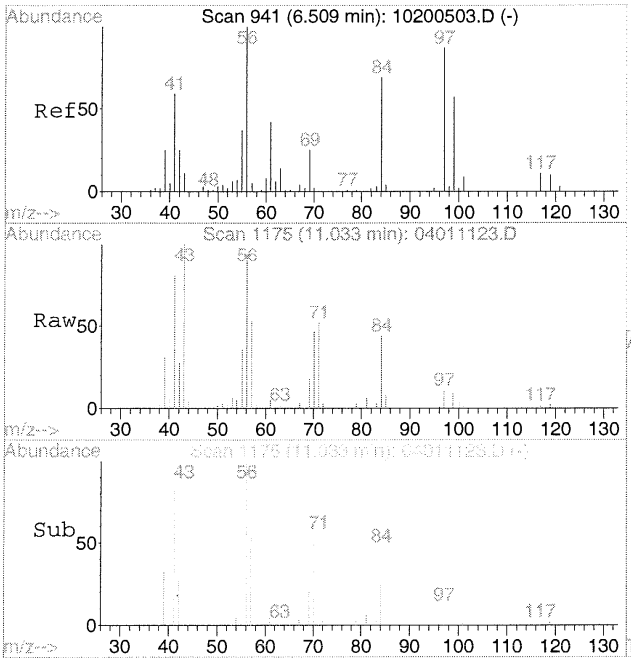


#27
Chloroform
Concen: 0.65 ppbv
RT: 10.78 min Scan# 1126
Delta R.T. 0.00 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 83 Resp: 60909

Ion	Ratio	Lower	Upper
83	100		
85	92.6	52.2	78.4#
87	9.4	8.6	13.0

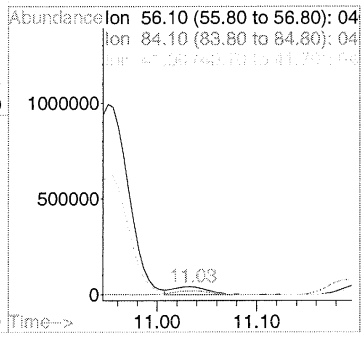


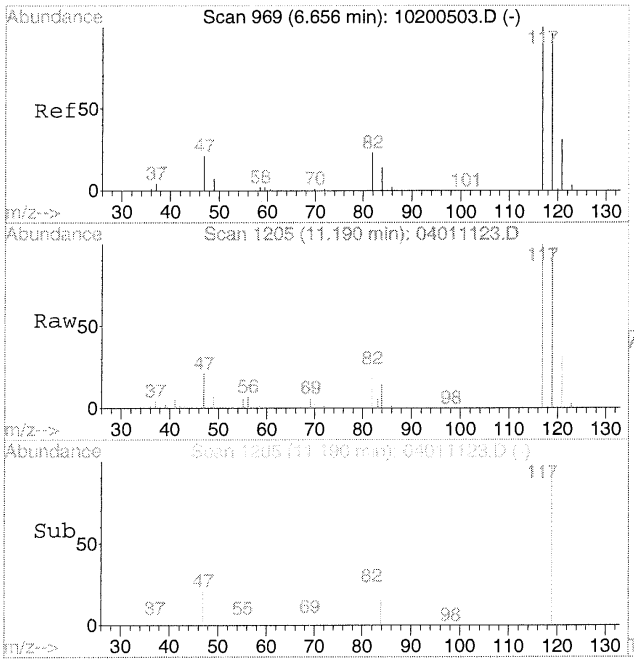


#29
Cyclohexane
Concen: 1.30 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 56 Resp: 102741

Ion	Ratio	Lower	Upper
56	100		
84	53.0	72.4	108.6#
41	85.8	43.8	65.8#

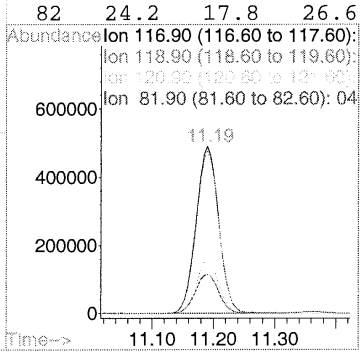


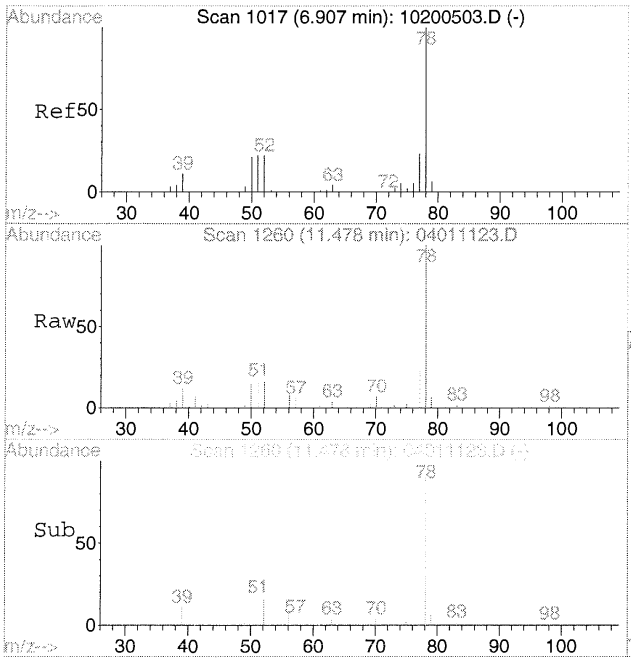


#30
Carbon tetrachloride
Concen: 13.01 ppbv
RT: 11.19 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion:117 Resp: 1253783

Ion	Ratio	Lower	Upper
117	100		
119	97.6	78.2	117.2
121	32.0	25.6	38.4
82	24.2	17.8	26.6

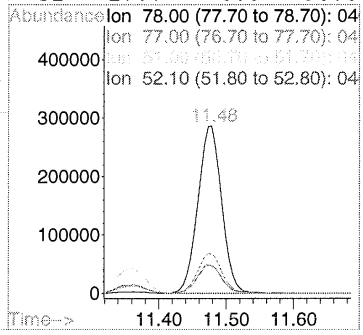


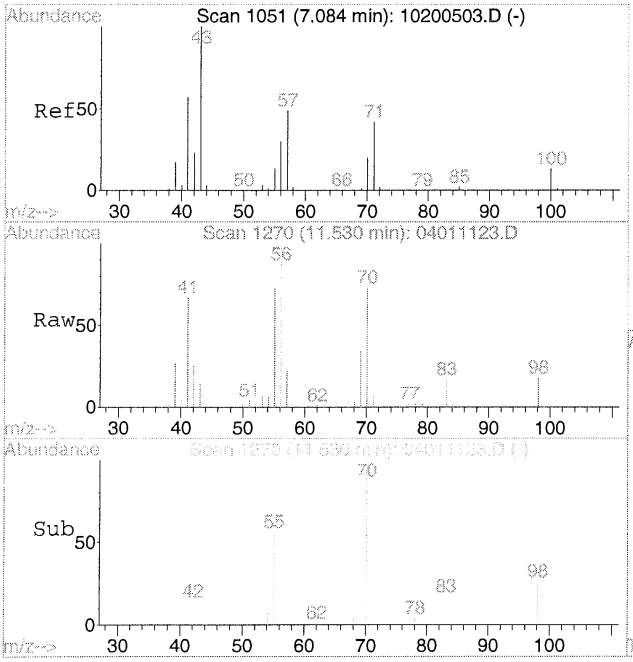


#31
Benzene
Concen: 5.31 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 78 Resp: 701277

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	19.5	0.0	36.1
52	17.7	0.0	36.0

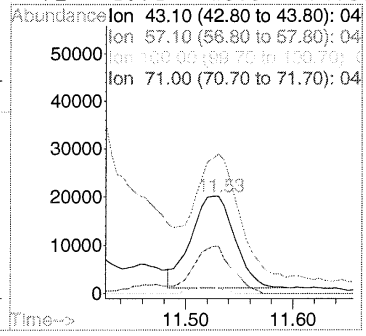


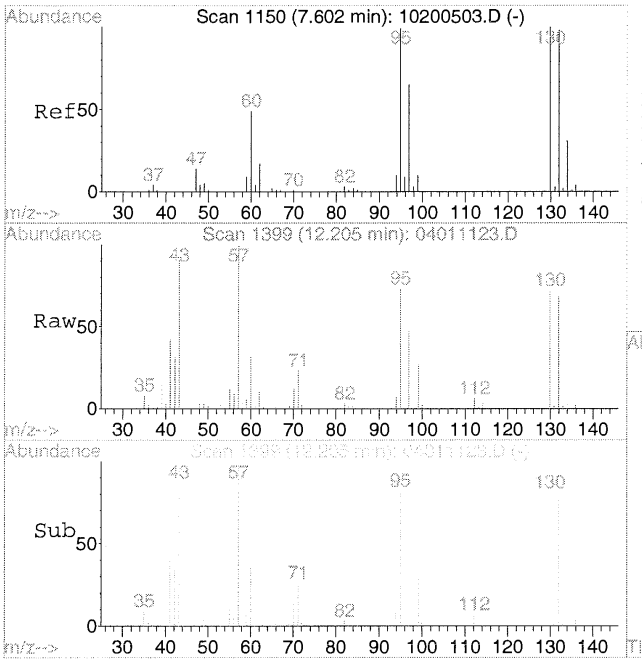


#34
Heptane
Concen: 0.56 ppbv
RT: 11.53 min Scan# 1270
Delta R.T. 0.01 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 43 Resp: 53650

Ion	Ratio	Lower	Upper
43	100		
57	0.0	42.2	63.4#
100	5.2	17.3	25.9#
71	46.4	48.3	72.5#

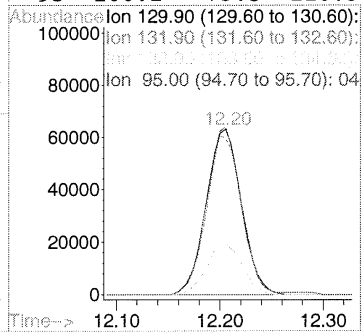


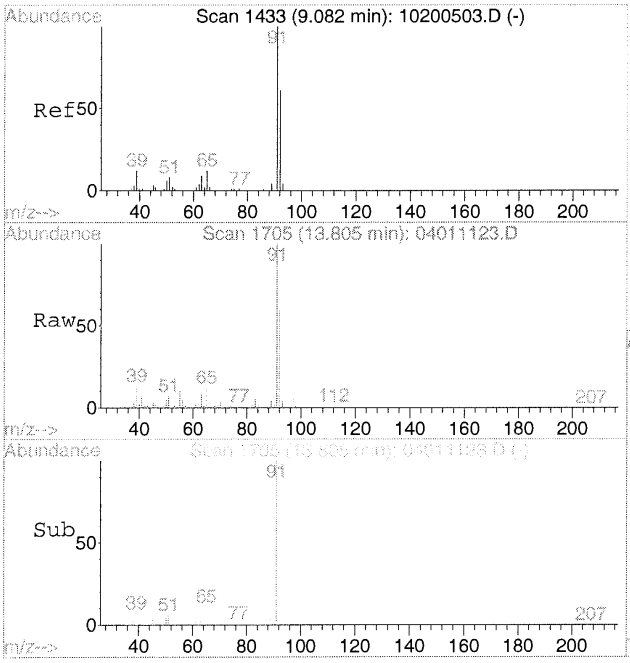


#35
Trichloroethene
Concen: 2.21 ppbv
RT: 12.20 min Scan# 1399
Delta R.T. 0.00 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion:130 Resp: 148731

Ion	Ratio	Lower	Upper
130	100		
132	96.2	77.9	116.9
134	31.3	25.4	38.0
95	100.1	73.5	110.3

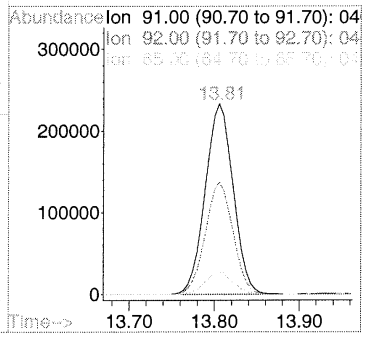




#41
Toluene
Concen: 3.57 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011123.D
Acq: 2 Apr 2011 8:28 am

Tgt Ion: 91 Resp: 531428

Ion	Ratio	Lower	Upper
91	100		
92	58.2	40.5	80.5
65	12.0	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	63	91	126	rBV	3251487	19011221	53.84%	5.702%
2	6.316	255	273	287	rBV4	160490	647085	1.83%	0.194%
3	6.630	315	333	352	rVB2	114822	483209	1.37%	0.145%
4	7.184	422	439	466	rBV	2760084	10146313	28.74%	3.043%
5	7.555	490	510	523	rBV2	182897	603133	1.71%	0.181%
6	8.152	608	624	651	rBV2	1336759	5142394	14.56%	1.542%
7	8.361	651	664	691	rVB	204043	655121	1.86%	0.196%
8	8.743	720	737	763	rBV2	6631999	23619708	66.90%	7.084%
9	9.077	788	801	822	rVB	1339768	3742690	10.60%	1.122%
10	9.998	965	977	1004	rVB	4624411	12684858	35.93%	3.804%
11	10.207	1005	1017	1025	rBV2	302495	879189	2.49%	0.264%
12	10.761	1114	1123	1145	rVB	1247118	3259206	9.23%	0.977%
13	10.950	1145	1159	1169	rBV	4527186	12038858	34.10%	3.611%
14	11.028	1169	1174	1192	rVB3	308660	777533	2.20%	0.233%
15	11.190	1192	1205	1218	rBV	1758369	4825519	13.67%	1.447%
16	11.358	1218	1237	1251	rVV	9992137	35308409	100.00%	10.589%
17	11.473	1251	1259	1265	rVV	789360	2076816	5.88%	0.623%
18	11.530	1265	1270	1283	rVB	700902	1692322	4.79%	0.508%
19	11.865	1321	1334	1345	rBV	1951737	4514173	12.78%	1.354%
20	12.200	1382	1398	1406	rBV2	721128	1736980	4.92%	0.521%
21	12.283	1406	1414	1427	rVV2	1275002	3161614	8.95%	0.948%
22	12.393	1427	1435	1438	rVV2	154295	362641	1.03%	0.109%
23	12.446	1438	1445	1456	rVV	444885	1154747	3.27%	0.346%
24	12.623	1471	1479	1493	rVB	440929	1088989	3.08%	0.327%
25	12.796	1493	1512	1527	rBV	5992022	15939552	45.14%	4.780%
26	12.921	1527	1536	1539	rVV	355282	755066	2.14%	0.226%
27	12.989	1539	1549	1570	rVB	4016938	11050078	31.30%	3.314%
28	13.173	1570	1584	1595	rBV3	175032	614139	1.74%	0.184%
29	13.267	1595	1602	1607	rVV	240529	598518	1.70%	0.179%
30	13.340	1607	1616	1632	rVB	1801736	4765963	13.50%	1.429%
31	13.575	1650	1661	1666	rBV2	390518	1095016	3.10%	0.328%
32	13.811	1695	1706	1720	rBV4	711173	2216694	6.28%	0.665%
33	13.931	1720	1729	1740	rBV2	417064	1022652	2.90%	0.307%
34	14.083	1749	1758	1771	rVB4	514505	1705861	4.83%	0.512%
35	14.375	1803	1814	1824	rVB4	119989	368075	1.04%	0.110%
36	14.689	1865	1874	1888	rVB2	259741	774773	2.19%	0.232%
37	14.810	1888	1897	1902	rBV5	126014	353580	1.00%	0.106%
38	14.888	1903	1912	1921	rVV	1047918	2488380	7.05%	0.746%
39	15.008	1929	1935	1959	rVB4	261783	786105	2.23%	0.236%
40	15.197	1959	1971	1990	rBV2	492766	1373214	3.89%	0.412%
41	15.432	2005	2016	2024	rBV	347215	932436	2.64%	0.280%
42	15.720	2054	2071	2083	rVV	2186934	5895379	16.70%	1.768%
43	15.819	2083	2090	2100	rVB3	268054	680856	1.93%	0.204%

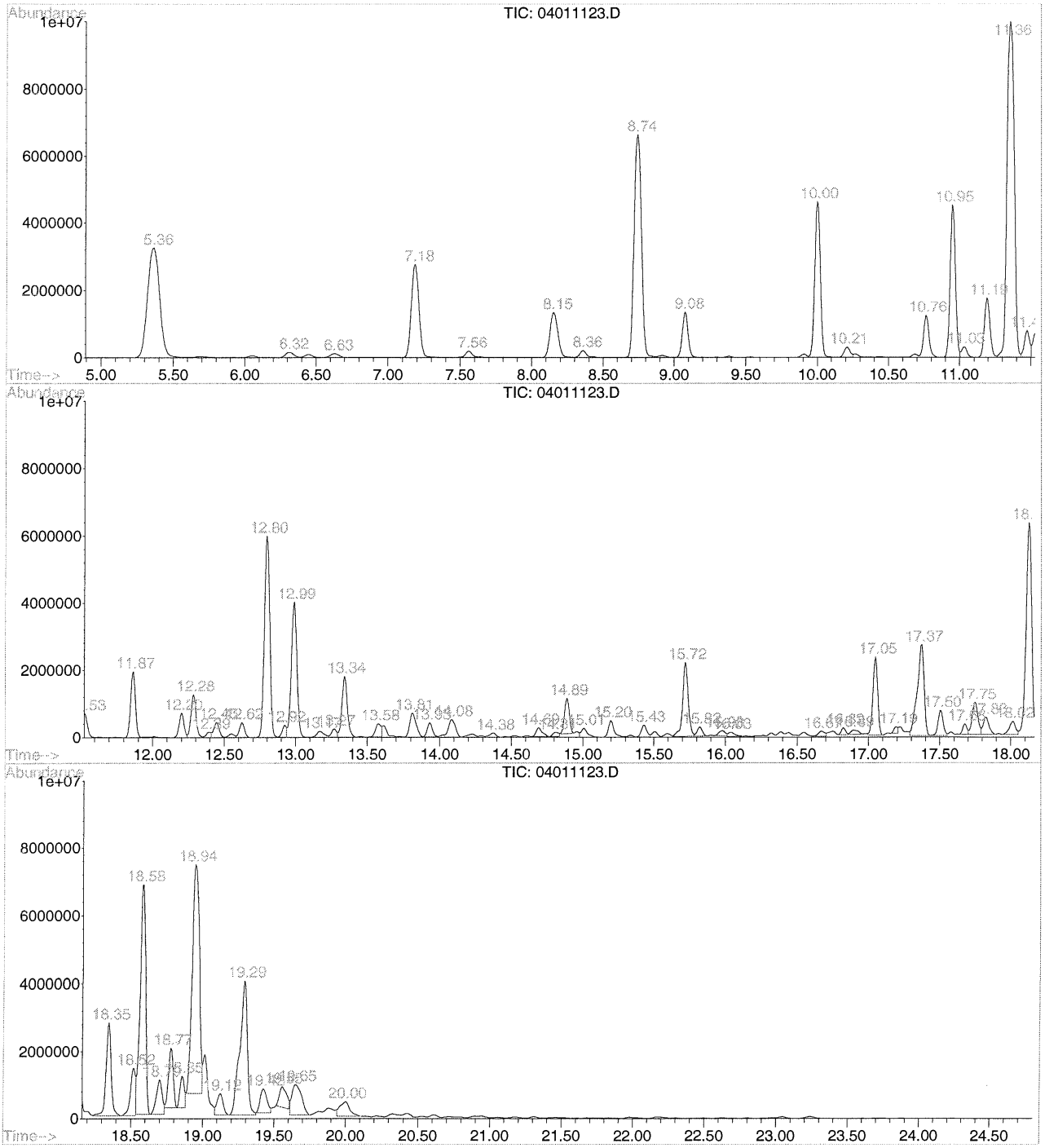
44	15.981	2111	2121	2127	rBV4	148930	475762	1.35%	0.143%
45	16.033	2127	2131	2148	rVB5	122453	369990	1.05%	0.111%
46	16.666	2241	2252	2259	rBV5	147611	476658	1.35%	0.143%
47	16.823	2275	2282	2289	rBV2	211790	470058	1.33%	0.141%
48	16.891	2289	2295	2308	rVB5	128549	460179	1.30%	0.138%
49	17.048	2315	2325	2335	rVB	2321852	5377966	15.23%	1.613%
50	17.195	2346	2353	2355	rBV	194211	375044	1.06%	0.112%
51	17.372	2371	2387	2399	rVB4	2701222	8984038	25.44%	2.694%
52	17.503	2399	2412	2421	rBV2	755925	1871715	5.30%	0.561%
53	17.676	2438	2445	2450	rBV	314025	662856	1.88%	0.199%
54	17.749	2450	2459	2467	rVV3	952822	2748311	7.78%	0.824%
55	17.827	2467	2474	2487	rVB2	511070	1439950	4.08%	0.432%
56	18.016	2496	2510	2517	rBV3	391010	1219814	3.45%	0.366%
57	18.125	2518	2531	2543	rVV	6216380	16486856	46.69%	4.945%
58	18.345	2553	2573	2589	rVB	2767540	6832594	19.35%	2.049%
59	18.518	2591	2606	2609	rBV	1415282	3516791	9.96%	1.055%
60	18.580	2609	2618	2628	rVB	6783960	18357019	51.99%	5.505%
61	18.696	2628	2640	2647	rBV3	1032257	2974828	8.43%	0.892%
62	18.774	2647	2655	2663	rVB2	1775151	4167192	11.80%	1.250%
63	18.852	2663	2670	2675	rBV	942927	2068038	5.86%	0.620%
64	18.941	2675	2687	2697	rBV2	6751158	23577825	66.78%	7.071%
65	19.119	2714	2721	2734	rVB3	633414	1875948	5.31%	0.563%
66	19.287	2734	2753	2769	rBV3	3961270	14657491	41.51%	4.396%
67	19.423	2769	2779	2789	rBV4	715659	2395341	6.78%	0.718%
68	19.553	2796	2804	2814	rBV5	574989	2242007	6.35%	0.672%
69	19.647	2815	2822	2842	rVB5	910095	4257396	12.06%	1.277%
70	19.998	2878	2889	2911	rVB4	435756	2067344	5.86%	0.620%

Sum of corrected areas: 333438076

04011123.D 031611V1.M Thu Apr 14 12:07:06 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011123.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 8:28 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-033B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 4
Quant File :031611V1.RES (RTE Integrator)



04011123.D 031611V1.M Thu Apr 14 12:07:07 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	72.91 ppbv	19011200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.18	38.91 ppbv	10146300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Cyclobutane $$ Tetramethylene $$ UN	56	C4H8	000287-23-0	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Butane, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.74	90.59 ppbv	23619700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	78
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	14.35 ppbv	3742690	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	40

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	48.65 ppbv	12684900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	46.17 ppbv	12038900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	97.77 ppbv	35308400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
2	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Pentane, 2,2,4,4-tetramethyl- $$ Di	128	C9H20	001070-87-7	64

****

Peak Number 8 Hexane, 2,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	8.75 ppbv	3161610	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
3	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	38
5	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	37

****

Peak Number 9 Pentane, 2,3,4-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	44.14 ppbv	15939600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	64
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
4	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 3,3-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	30.60 ppbv	11050100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
2	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	72
3	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50
5	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	45

****

Peak Number 11 Hexane, 2,2,4-trimethyl- $$ 2, Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	13.20 ppbv	4765960	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72

****

Peak Number 12 Octane, 2,2,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	11.40 ppbv	5377970	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	64
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	59
3	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	59
4	Heptane, 2,2,4-trimethyl- $$ 2,2,4-	142	C10H22	014720-74-2	53
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Dodecane, 2,2,11,11-tetramethy Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.13	34.96 ppbv	16486900	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	83
2	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	72
3	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	72
4	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	64
5	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	64

****

Peak Number 14 Heptane, 2,2,4,6,6-pentamethyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	14.49 ppbv	6832590	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
2	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
4	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	72
5	Decane, 2,2,4-trimethyl-	184	C13H28	062237-98-3	72

****

Peak Number 15 Undecane, 3,6-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.52	7.46 ppbv	3516790	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	72
2	Nonane, 2,2,4,4,6,8,8-heptamethyl-	226	C16H34	004390-04-9	72
3	Undecane, 2,5-dimethyl- $$ 2,5-Dime	184	C13H28	017301-22-3	64
4	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	59
5	Nonane, 2,2,4,4,6,8,8-heptamethyl-	226	C16H34	004390-04-9	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Undecane, 5,7-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	38.92 ppbv	18357000	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	72
2	Heneicosane $$ n-Heneicosane	296	C21H44	000629-94-7	64
3	Undecane, 3,8-dimethyl-	184	C13H28	017301-30-3	56
4	Undecane, 3,4-dimethyl-	184	C13H28	017312-78-6	56
5	Octane, 3-ethyl-2,7-dimethyl-	170	C12H26	062183-55-5	50

****

Peak Number 17 Undecane, 2,9-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	8.84 ppbv	4167190	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	78
2	Nonane, 3,7-dimethyl- $$ 3,7-Dimeth	156	C11H24	017302-32-8	72
3	Dodecane, 3-methyl- $$ 3-Methyldode	184	C13H28	017312-57-1	72
4	Decane	142	C10H22	000124-18-5	56
5	Dodecane, 2,5-dimethyl-	198	C14H30	056292-65-0	50

****

Peak Number 18 Heptane, 5-ethyl-2,2,3-trimeth Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	49.99 ppbv	23577800	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 5-ethyl-2,2,3-trimethyl-	170	C12H26	062199-06-8	56
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	53
3	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	50
4	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	50
5	Hexane, 2,2,5,5-tetramethyl- $$ Bin	142	C10H22	001071-81-4	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011123.D Vial: 4
Acq On : 2 Apr 2011 8:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 10.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Undecane, 2,8-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.29	31.08 ppbv	14657500	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	78
2	Undecane, 4,8-dimethyl-	184	C13H28	017301-33-6	50
3	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	47
4	Undecane, 3,8-dimethyl-	184	C13H28	017301-30-3	45
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	38

****

Peak Number 20 Nonane, 3,7-dimethyl- $$ 3,7-D Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.65	9.03 ppbv	4257400	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3,7-dimethyl- $$ 3,7-Dimeth	156	C11H24	017302-32-8	64
2	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	45
3	Heptane, 2,5,5-trimethyl-	142	C10H22	001189-99-7	43
4	Hexane, 3,3,4,4-tetramethyl- $$ 3,3	142	C10H22	005171-84-6	43
5	Heptane, 2,5,5-trimethyl- $$ 2,5,5-	142	C10H22	001189-99-7	43

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 8:28 am
Data File: C:\HPCHEM\1\DATA\040111\04011123.D
Name: 1103389-033B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	72.9	ppbv	19011200	ISTD01	10.76	3259210	12.5
Butane, 2-methyl-	7.18	38.9	ppbv	10146300	ISTD01	10.76	3259210	12.5
Butane, 2,3-dimethyl	8.74	90.6	ppbv	23619700	ISTD01	10.76	3259210	12.5
Pentane, 3-methyl-	9.08	14.4	ppbv	3742690	ISTD01	10.76	3259210	12.5
Pentane, 2,4-dimethy	10.00	48.7	ppbv	12684900	ISTD01	10.76	3259210	12.5
Pentane, 2,3-dimethy	10.95	46.2	ppbv	12038900	ISTD01	10.76	3259210	12.5
Pentane, 2,2,4-trime	11.36	97.8	ppbv	35308400	ISTD02	11.87	4514170	12.5
Hexane, 2,4-dimethyl	12.28	8.8	ppbv	3161610	ISTD02	11.87	4514170	12.5
Pentane, 2,3,4-trime	12.80	44.1	ppbv	15939600	ISTD02	11.87	4514170	12.5
Hexane, 3,3-dimethyl	12.99	30.6	ppbv	11050100	ISTD02	11.87	4514170	12.5
Hexane, 2,2,4-trimet	13.34	13.2	ppbv	4765960	ISTD02	11.87	4514170	12.5
Octane, 2,2,6-trimet	17.05	11.4	ppbv	5377970	ISTD03	15.72	5895380	12.5
Dodecane, 2,2,11,11-	18.13	35.0	ppbv	16486900	ISTD03	15.72	5895380	12.5
Heptane, 2,2,4,6,6-p	18.35	14.5	ppbv	6832590	ISTD03	15.72	5895380	12.5
Undecane, 3,6-dimeth	18.52	7.5	ppbv	3516790	ISTD03	15.72	5895380	12.5
Undecane, 5,7-dimeth	18.58	38.9	ppbv	18357000	ISTD03	15.72	5895380	12.5
Undecane, 2,9-dimeth	18.77	8.8	ppbv	4167190	ISTD03	15.72	5895380	12.5
Heptane, 5-ethyl-2,2	18.94	50.0	ppbv	23577800	ISTD03	15.72	5895380	12.5
Undecane, 2,8-dimeth	19.29	31.1	ppbv	14657500	ISTD03	15.72	5895380	12.5
Nonane, 3,7-dimethyl	19.65	9.0	ppbv	4257400	ISTD03	15.72	5895380	12.5

04011123.D 031611V1.M Thu Apr 14 12:07:08 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:36 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

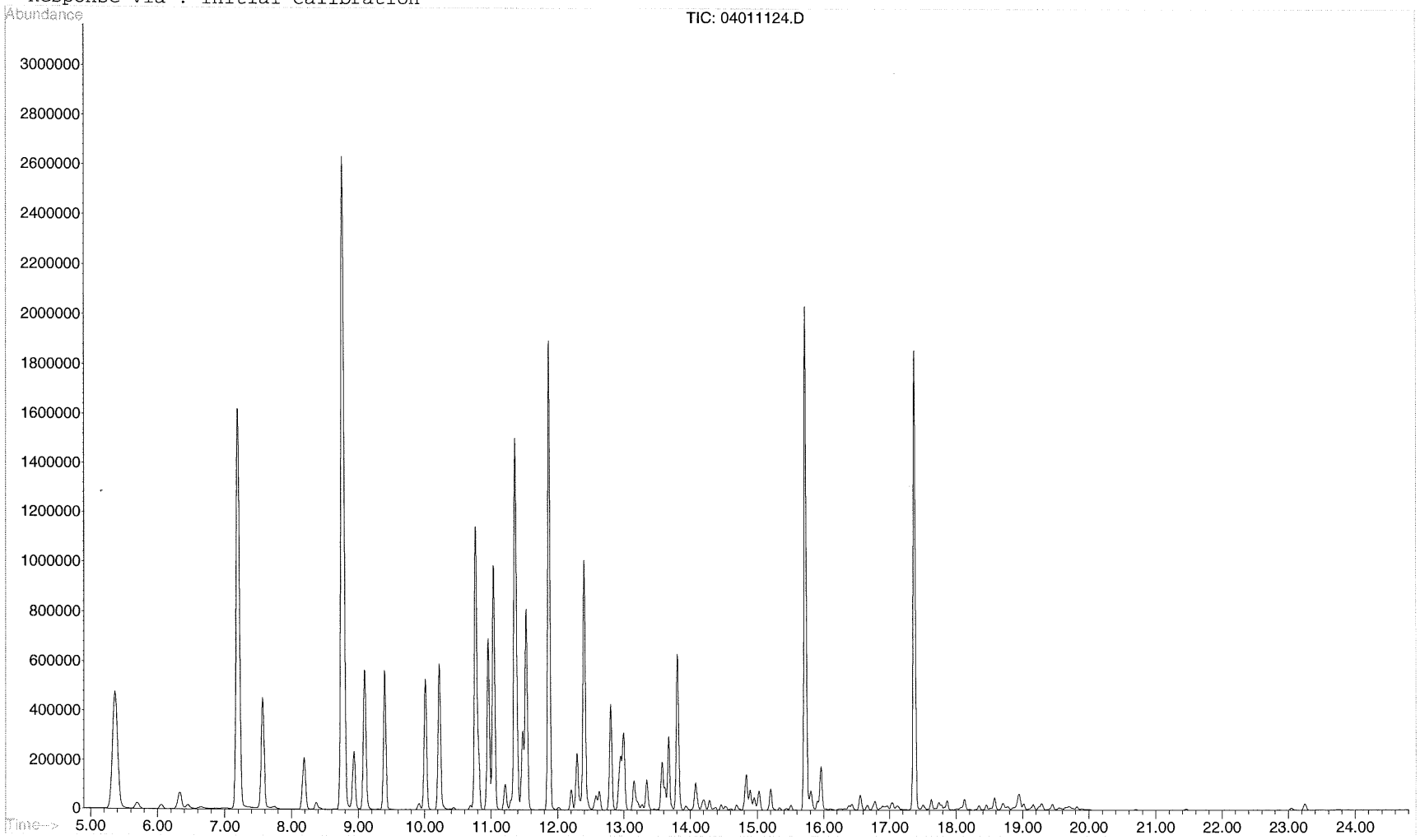
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	518528	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1929447	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1424211	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	864246	12.11	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.88%				
Target Compounds							Qvalue
11) Ethanol	7.75	45	7280	0.84	ppbv	#	75
14) Acetone	8.37	43	57345	0.90	ppbv	#	97
17) Methylene chloride	8.93	49	115860	2.22	ppbv		90
20) n-Hexane	9.39	57	354635	4.68	ppbv		94
26) Tetrahydrofuran	10.81	42	62765	1.45	ppbv	#	42
29) Cyclohexane	11.04	56	474339	6.19	ppbv	#	79
31) Benzene	11.48	78	202862	1.58	ppbv		92
34) Heptane	11.52	43	328077	3.52	ppbv	#	92
41) Toluene	13.81	91	576248	3.96	ppbv		98
51) m,p-Xylene	15.96	91	135355	1.06	ppbv		93

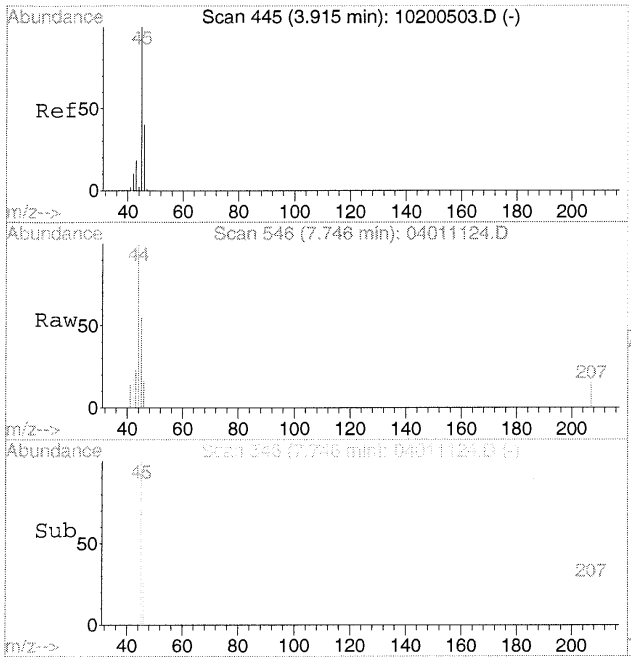
(#) = qualifier out of range (m) = manual integration
04011124.D 031611V1.M Thu Apr 14 12:09:11 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 10:36 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

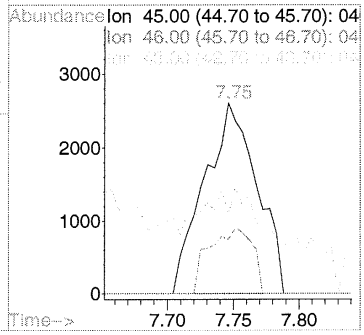


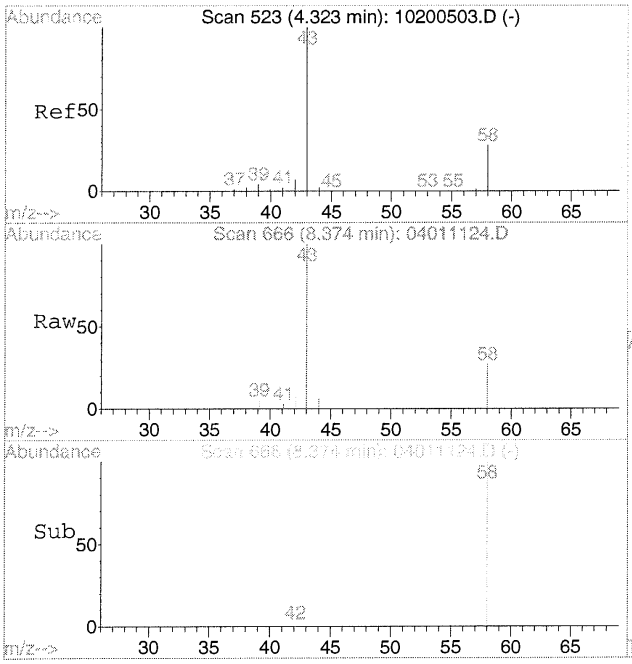


#11
Ethanol
Concen: 0.84 ppbv
RT: 7.75 min Scan# 546
Delta R.T. 0.02 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 45 Resp: 7280

Ion	Ratio	Lower	Upper
45	100		
46	28.3	30.2	45.4#
43	0.0	15.8	23.6#

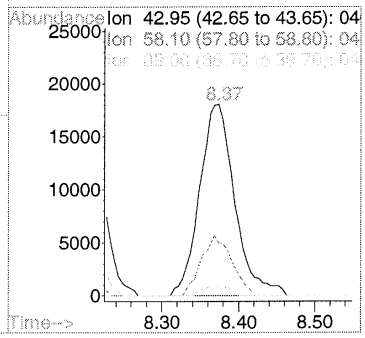


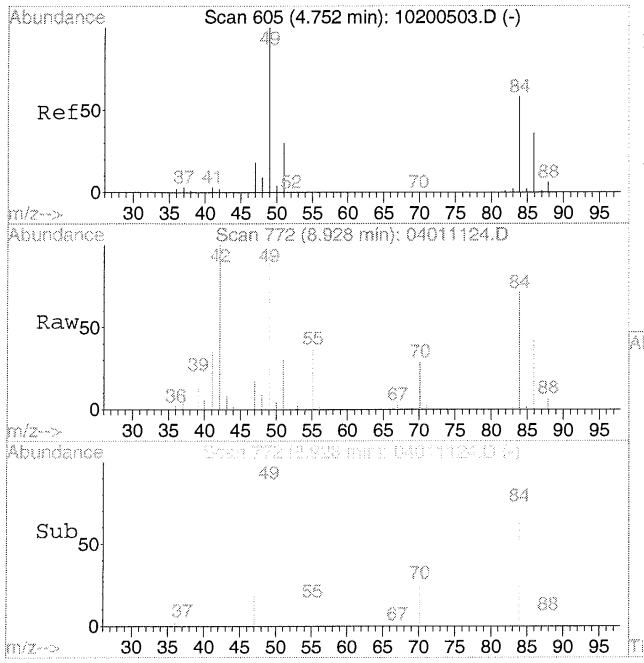


#14
Acetone
Concen: 0.90 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.02 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 43 Resp: 57345

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.0	33.0
39	3.9	6.5	9.7#

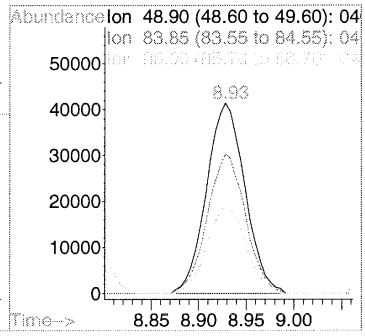


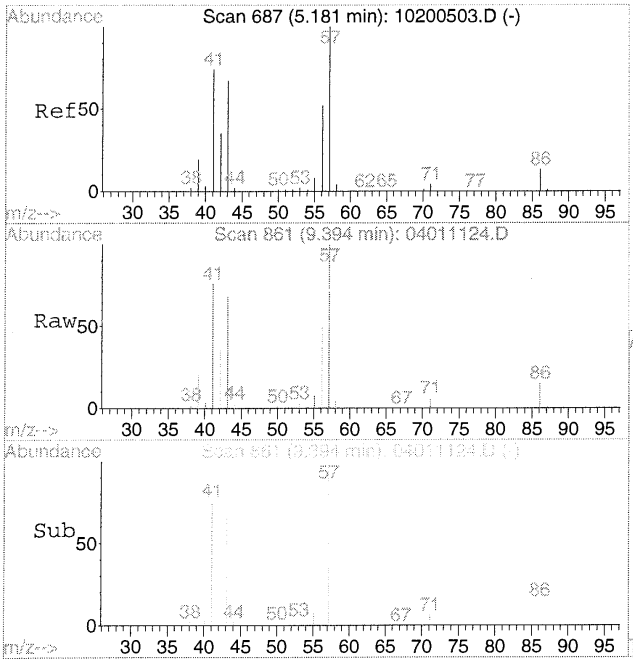


#17
Methylene chloride
Concen: 2.22 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 49 Resp: 115860

Ion	Ratio	Lower	Upper
49	100		
84	73.0	65.4	98.2
86	46.2	42.3	63.5

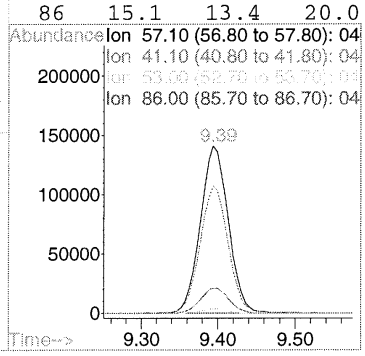


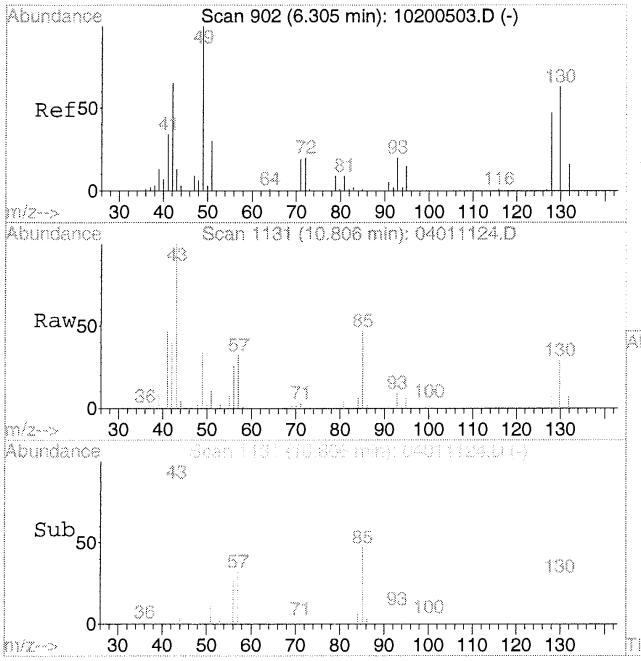


#20
n-Hexane
Concen: 4.68 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 57 Resp: 354635

Ion	Ratio	Lower	Upper
57	100		
41	76.6	57.2	85.8
53	2.3	1.8	2.8
86	15.1	13.4	20.0

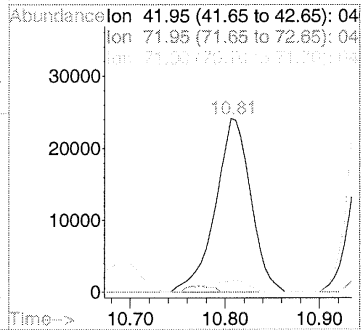


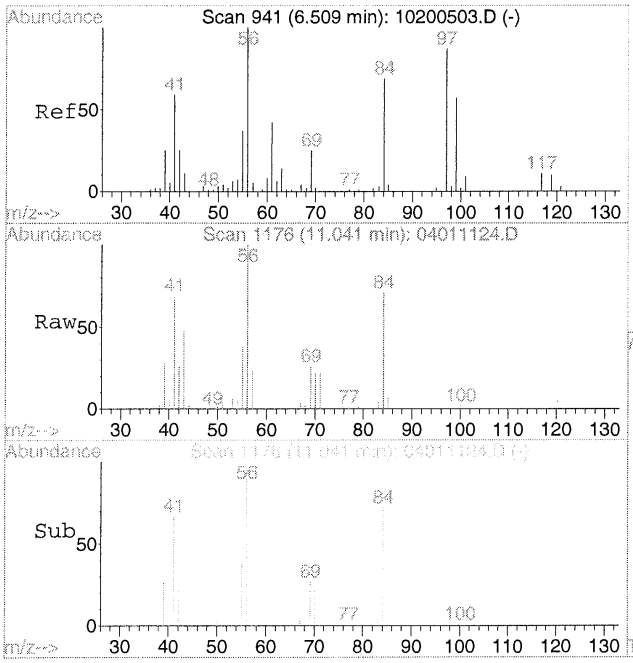


#26
Tetrahydrofuran
Concen: 1.45 ppbv
RT: 10.81 min Scan# 1131
Delta R.T. 0.05 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 42 Resp: 62765

Ion	Ratio	Lower	Upper
42	100		
72	2.4	35.0	52.6#
71	8.2	31.9	47.9#

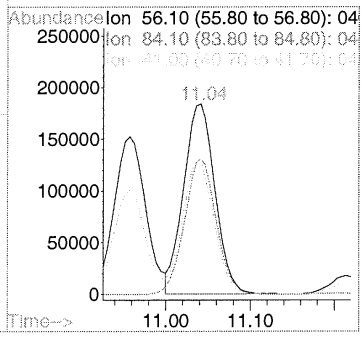


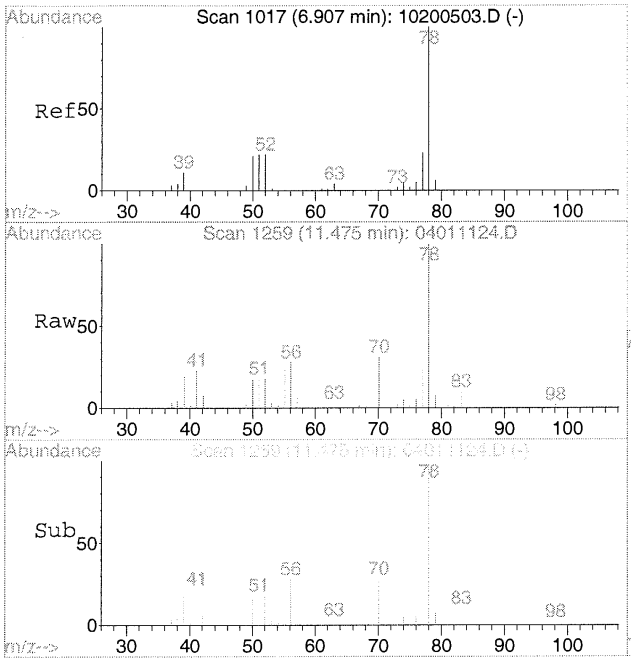


#29
Cyclohexane
Concen: 6.19 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.01 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 56 Resp: 474339

Ion	Ratio	Lower	Upper
56	100		
84	71.7	72.4	108.6#
41	71.2	43.8	65.8#

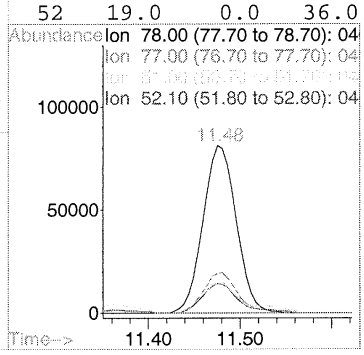


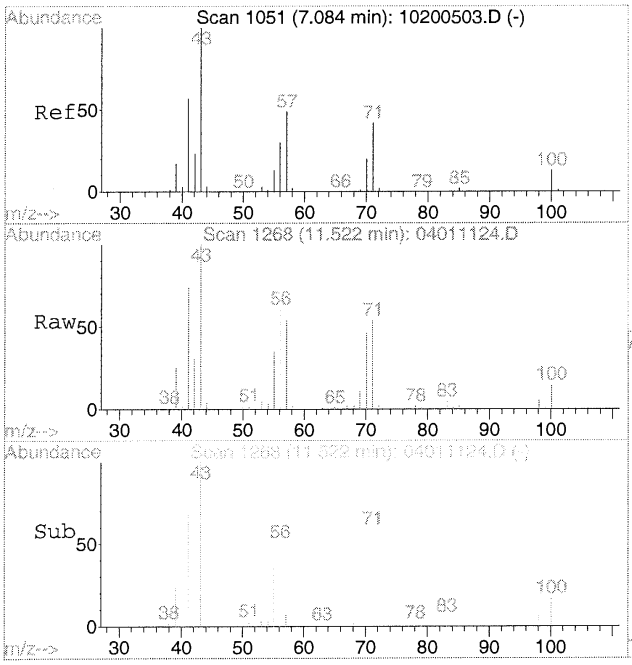


#31
Benzene
Concen: 1.58 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 78 Resp: 202862

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	22.6	0.0	36.1
52	19.0	0.0	36.0

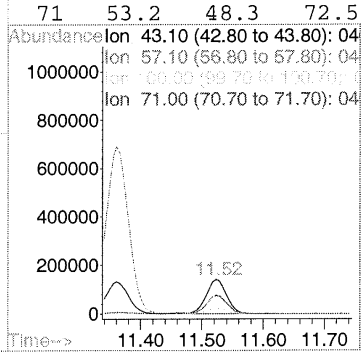


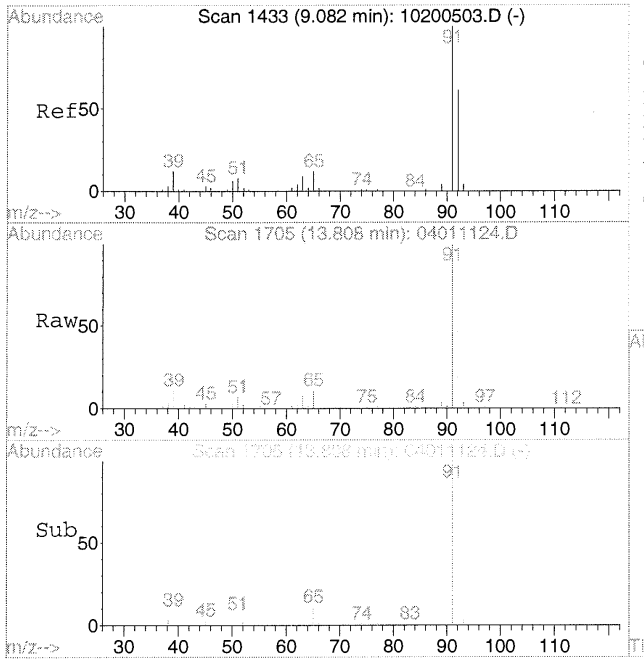


#34
Heptane
Concen: 3.52 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 43 Resp: 328077

Ion	Ratio	Lower	Upper
43	100		
57	55.4	42.2	63.4
100	14.4	17.3	25.9#
71	53.2	48.3	72.5

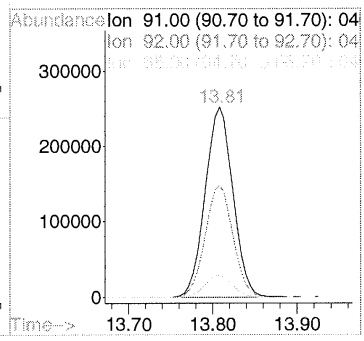


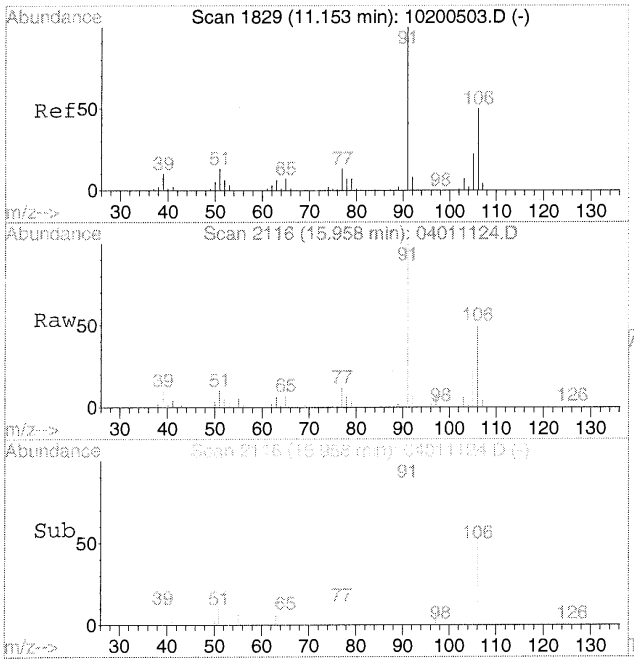


#41
Toluene
Concen: 3.96 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 91 Resp: 576248

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	11.4	0.0	31.2

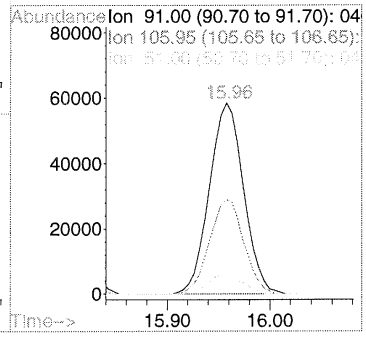




#51
m,p-Xylene
Concen: 1.06 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04011124.D
Acq: 2 Apr 2011 9:11 am

Tgt Ion: 91 Resp: 135355

Ion	Ratio	Lower	Upper
91	100		
106	49.6	35.6	75.6
51	10.3	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.361	65	90	131	rBV	476168	2571518	29.37%	3.822%
2	6.334	259	276	288	rBV4	66766	274858	3.14%	0.409%
3	7.192	423	440	467	rBV	1619649	5606833	64.05%	8.334%
4	7.563	497	511	529	rBV	447748	1384052	15.81%	2.057%
5	8.186	616	630	647	rVB	213580	693242	7.92%	1.030%
6	8.766	724	741	761	rBV2	2635108	8754380	100.00%	13.013%
7	8.933	762	773	786	rVB2	235582	677832	7.74%	1.008%
8	9.090	791	803	824	rVB	567137	1606132	18.35%	2.387%
9	9.394	847	861	876	rBV	565488	1418851	16.21%	2.109%
10	10.011	968	979	996	rVB	530393	1401688	16.01%	2.084%
11	10.220	1007	1019	1044	rBV	592588	1593757	18.21%	2.369%
12	10.769	1113	1124	1144	rVV2	1143840	3373524	38.54%	5.015%
13	10.958	1148	1160	1167	rBV	693647	1785523	20.40%	2.654%
14	11.036	1167	1175	1192	rVB2	985730	2556405	29.20%	3.800%
15	11.214	1199	1209	1218	rBV4	101975	276001	3.15%	0.410%
16	11.360	1218	1237	1250	rVV	1502121	4342069	49.60%	6.454%
17	11.475	1250	1259	1262	rVV2	319725	759670	8.68%	1.129%
18	11.528	1262	1269	1284	rVB3	811781	2086511	23.83%	3.102%
19	11.868	1322	1334	1353	rBV	1896813	4376119	49.99%	6.505%
20	12.202	1388	1398	1405	rBV2	81916	195609	2.23%	0.291%
21	12.286	1405	1414	1425	rVV2	231088	632502	7.22%	0.940%
22	12.396	1425	1435	1457	rVV	1009026	2616766	29.89%	3.890%
23	12.579	1459	1470	1474	rVV6	58451	170842	1.95%	0.254%
24	12.626	1474	1479	1489	rVB2	76752	182108	2.08%	0.271%
25	12.799	1500	1512	1527	rBV	429321	1100621	12.57%	1.636%
26	12.945	1527	1540	1544	rVV2	220308	660333	7.54%	0.982%
27	12.992	1544	1549	1563	rVB2	313894	831803	9.50%	1.236%
28	13.149	1568	1579	1597	rBV2	118841	405140	4.63%	0.602%
29	13.342	1608	1616	1631	rVB	122126	319217	3.65%	0.475%
30	13.578	1651	1661	1667	rBV2	192756	519310	5.93%	0.772%
31	13.677	1673	1680	1694	rVB	295187	663262	7.58%	0.986%
32	13.808	1694	1705	1721	rVB	632039	1568200	17.91%	2.331%
33	14.080	1741	1757	1769	rBV5	110612	319908	3.65%	0.476%
34	14.200	1769	1780	1790	rBV7	38391	122680	1.40%	0.182%
35	14.833	1887	1901	1907	rBV2	143236	390832	4.46%	0.581%
36	14.891	1907	1912	1918	rVV2	82598	195524	2.23%	0.291%
37	14.948	1918	1923	1930	rVV3	51489	131249	1.50%	0.195%
38	15.027	1930	1938	1949	rVB4	78022	206998	2.36%	0.308%
39	15.199	1960	1971	1988	rBB3	87074	214926	2.46%	0.319%
40	15.722	2058	2071	2082	rBV	2036231	4674255	53.39%	6.948%
41	15.806	2082	2087	2099	rVV2	75571	204736	2.34%	0.304%
42	15.958	2109	2116	2128	rVB2	173937	430821	4.92%	0.640%
43	16.554	2220	2230	2241	rBV2	61458	160443	1.83%	0.238%

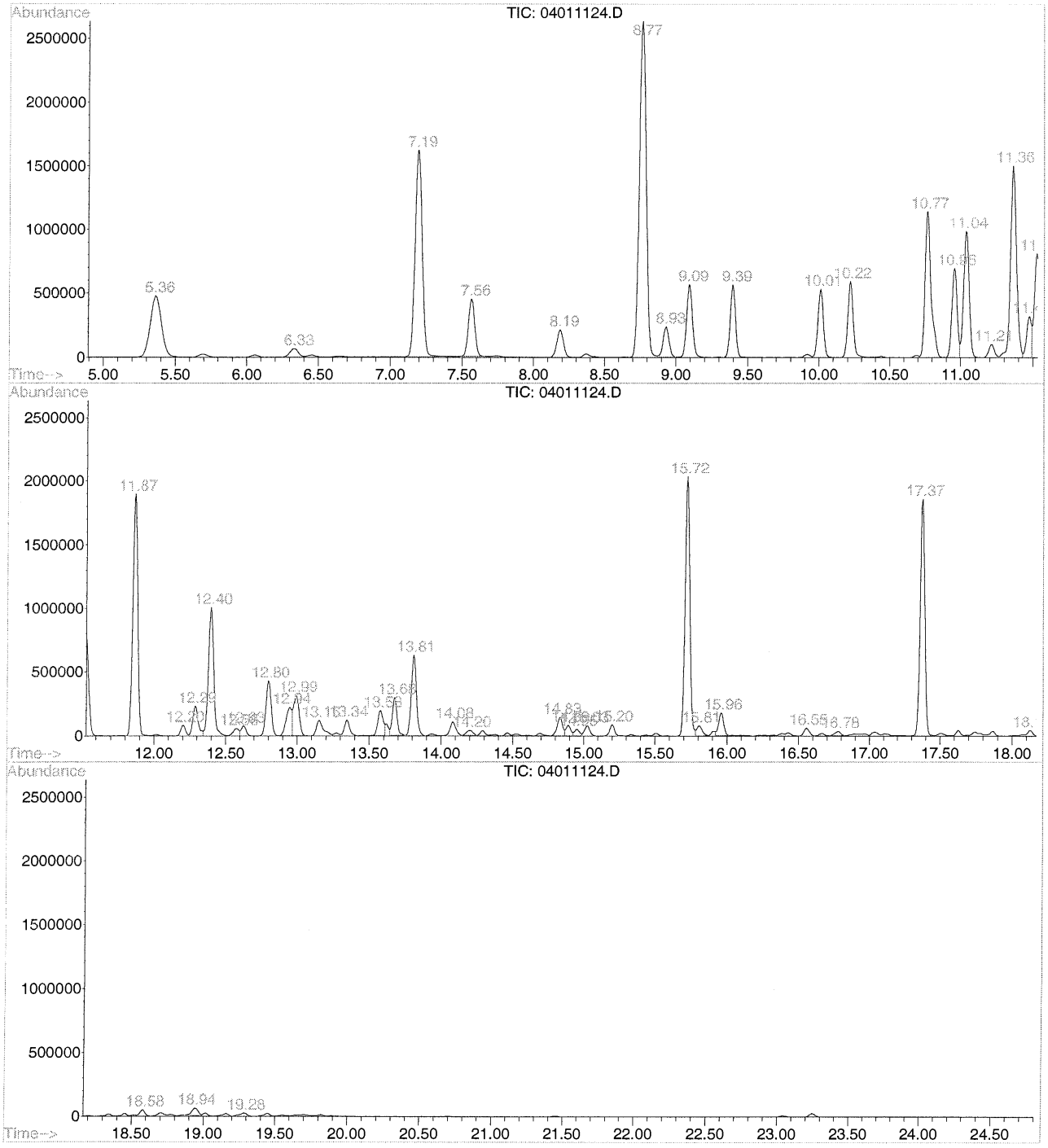
44	16.779	2261	2273	2282	rBV5	34391	94400	1.08%	0.140%
45	17.375	2371	2387	2403	rBV	1858235	4205822	48.04%	6.252%
46	18.123	2523	2530	2541	rVB2	42769	108903	1.24%	0.162%
47	18.578	2609	2617	2629	rVB3	49262	122033	1.39%	0.181%
48	18.939	2672	2686	2696	rBV2	57469	190675	2.18%	0.283%
49	19.284	2736	2752	2764	rVB3	25601	94530	1.08%	0.141%

Sum of corrected areas: 67273413

04011124.D 031611V1.M Thu Apr 14 12:09:16 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040111\04011124.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 9:11 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-032B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 5
Quant File :031611V1.RES (RTE Integrator)



04011124.D 031611V1.M Thu Apr 14 12:09:17 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	9.53 ppbv	2571520	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	20.78 ppbv	5606830	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	1-Butene $$ .alpha.-Butene $$ .alph	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	5.13 ppbv	1384050	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	42
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	2.57 ppbv	693242	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	78
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	78
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	78
4	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	32.44 ppbv	8754380	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	86
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	5.95 ppbv	1606130	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	5.19 ppbv	1401690	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	47
5	2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	47

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	5.91 ppbv	1593760	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	58
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	6.62 ppbv	1785520	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	1.02 ppbv	276001	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	78
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	74
3	1-Octene, 7-methyl- $$ 7-Methyl-1-o	126	C9H18	013151-06-9	50
4	2-Ethylthiolane, S,S-dioxide	148	C6H12O2S	010178-59-3	37
5	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	37

****

Peak Number 11 Pentane, 2,2,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	12.40 ppbv	4342070	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 12 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	1.81 ppbv	632502	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	64
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
3	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	7.47 ppbv	2616770	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	59

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	3.14 ppbv	1100620	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64
3	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	59
5	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	56

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	1.89 ppbv	660333	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	64
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	59
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Pentane, 2,3,4-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	2.38 ppbv	831803	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	45
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	42
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	38
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	36

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.16 ppbv	405140	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	56
4	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	47
5	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	43

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	1.48 ppbv	519310	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040111\04011124.D Vial: 5
Acq On : 2 Apr 2011 9:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	1.89 ppbv	663262	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Octane	114	C8H18	000111-65-9	81
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.05 ppbv	390832	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 9:11 am
Data File: C:\HPCHEM\1\DATA\040111\04011124.D
Name: 1103389-032B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	9.5	ppbv	2571520	ISTD01	10.77	3373520	12.5
Butane, 2-methyl-	7.19	20.8	ppbv	5606830	ISTD01	10.77	3373520	12.5
Pentane $$ n-Pentane	7.56	5.1	ppbv	1384050	ISTD01	10.77	3373520	12.5
Butane, 2,2-dimethyl	8.19	2.6	ppbv	693242	ISTD01	10.77	3373520	12.5
Pentane, 2-methyl-	8.77	32.4	ppbv	8754380	ISTD01	10.77	3373520	12.5
Pentane, 3-methyl-	9.09	6.0	ppbv	1606130	ISTD01	10.77	3373520	12.5
Pentane, 2,4-dimethy	10.01	5.2	ppbv	1401690	ISTD01	10.77	3373520	12.5
Cyclopentane, methyl	10.22	5.9	ppbv	1593760	ISTD01	10.77	3373520	12.5
Pentane, 2,3-dimethy	10.96	6.6	ppbv	1785520	ISTD01	10.77	3373520	12.5
Cyclopentane, 1,1-di	11.21	1.0	ppbv	276001	ISTD01	10.77	3373520	12.5
Pentane, 2,2,4-trime	11.36	12.4	ppbv	4342070	ISTD02	11.87	4376120	12.5
Hexane, 1-(hexyloxy)	12.29	1.8	ppbv	632502	ISTD02	11.87	4376120	12.5
Cyclohexane, methyl-	12.40	7.5	ppbv	2616770	ISTD02	11.87	4376120	12.5
Pentane, 2,3,4-trime	12.80	3.1	ppbv	1100620	ISTD02	11.87	4376120	12.5
Heptane, 2-methyl-	12.95	1.9	ppbv	660333	ISTD02	11.87	4376120	12.5
Pentane, 2,3,4-trime	12.99	2.4	ppbv	831803	ISTD02	11.87	4376120	12.5
Heptane, 3-methyl-	13.15	1.2	ppbv	405140	ISTD02	11.87	4376120	12.5
Cyclohexane, 1,3-dim	13.58	1.5	ppbv	519310	ISTD02	11.87	4376120	12.5
Octane	13.68	1.9	ppbv	663262	ISTD02	11.87	4376120	12.5
Cyclohexane, ethyl-	14.83	1.0	ppbv	390832	ISTD03	15.72	4674260	12.5

04011124.D 031611V1.M Thu Apr 14 12:09:17 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011125.D Vial: 2
Acq On : 2 Apr 2011 9:56 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 11:21 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	554840	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2093009	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1469215	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	877986	11.92	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.36%				
Target Compounds							Qvalue
2) Propylene	5.68	41	44940	1.08	ppbv		97
3) Dichlorodifluoromethane	5.76	85	134016	0.98	ppbv		98
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	97856	0.97	ppbv		92
5) Chloromethane	6.18	50	51991	1.10	ppbv	#	95
6) Vinyl chloride	6.38	62	55653	1.04	ppbv	#	98
7) 1,3-Butadiene	6.45	39	45343	1.08	ppbv		97
8) Bromomethane	7.03	94	46939	0.96	ppbv		99
9) Chloroethane	7.18	64	26606	0.94	ppbv	#	96
10) Trichlorofluoromethane	7.51	101	132335	1.01	ppbv		99
11) Ethanol	7.74	45	6741	0.73	ppbv	#	74
12) Freon113	8.17	101	107160	1.02	ppbv		96
13) 1,1-Dichloroethene	8.27	61	81798	1.06	ppbv		94
14) Acetone	8.37	43	72399	1.06	ppbv	#	94
15) Carbon disulfide	8.65	76	139788	1.02	ppbv	#	98
16) 2-Propanol	8.41	45	36923	0.75	ppbv	#	42
17) Methylene chloride	8.93	49	72453	1.30	ppbv		90
18) tert-Butyl Methyl Ether	9.13	73	128272	1.01	ppbv	#	70
19) trans-1,2-Dichloroethene	9.21	61	75500	1.04	ppbv		94
20) n-Hexane	9.40	57	96562	1.19	ppbv		94
21) 1,1-Dichloroethane	9.77	63	95136	1.07	ppbv		99
22) Vinyl acetate	9.70	43	90289	0.99	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	52213	1.03	ppbv		92
24) 2-Butanone	10.43	43	69389	0.98	ppbv	#	91
25) Ethyl acetate	10.37	43	75464	0.86	ppbv	#	100
26) Tetrahydrofuran	10.77	42	44309	0.96	ppbv		91
27) Chloroform	10.78	83	108742	1.12	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	106702	1.07	ppbv		98
29) Cyclohexane	11.04	56	103521	1.26	ppbv		90
30) Carbon tetrachloride	11.19	117	105449	1.05	ppbv		98
31) Benzene	11.48	78	153587	1.12	ppbv		98
32) 1,2-Dichloroethane	11.56	62	62994	1.14	ppbv		99
34) Heptane	11.52	43	118959	1.18	ppbv		93
35) Trichloroethene	12.20	130	69367	0.97	ppbv		97
36) 1,2-Dichloropropane	12.56	63	50539	1.00	ppbv		98
37) 1,4-Dioxane	12.64	88	13901	0.69	ppbv		98
38) Bromodichloromethane	12.84	83	95645	0.97	ppbv		97
39) cis-1,3-Dichloropropene	13.40	75	70921	0.92	ppbv		97
40) 4-Methyl-2-pentanone	13.51	58	15816	0.69	ppbv		95
41) Toluene	13.80	91	191854	1.22	ppbv		98
42) trans-1,3-Dichloropropene	14.11	75	55518	0.87	ppbv		98
43) 1,1,2-Trichloroethane	14.39	97	49325	0.96	ppbv		98
44) Tetrachloroethene	14.51	166	86998	1.00	ppbv		99
45) 2-Hexanone	14.59	43	22770	0.68	ppbv		93
46) Chlorodibromomethane	14.93	129	82009	0.95	ppbv		99
47) 1,2-Dibromoethane	15.17	107	70208	0.94	ppbv		99
49) Chlorobenzene	15.77	112	100946	0.98	ppbv	#	80
50) Ethylbenzene	15.80	91	166662	0.98	ppbv		94

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040111\04011125.D Vial: 2
Acq On : 2 Apr 2011 9:56 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 11:21 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

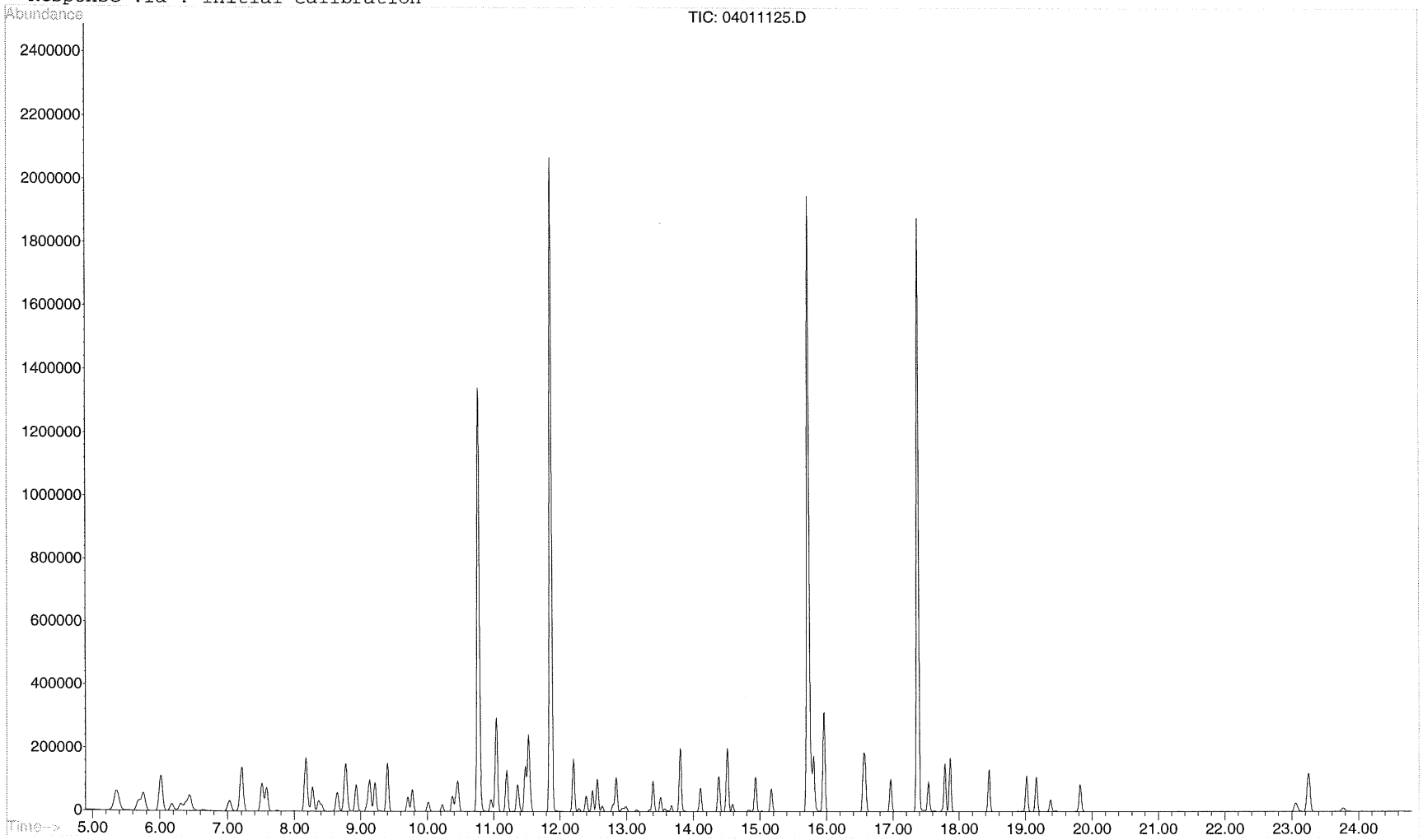
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	257781	1.95	ppbv		94
52) o-Xylene	16.55	91	124225	0.96	ppbv		95
53) Styrene	16.58	104	84294	0.95	ppbv		98
54) Bromoform	16.96	173	71002	0.96	ppbv		100
56) 1,1,2,2-Tetrachloroethane	17.53	83	65517	0.90	ppbv		98
57) 4-Ethyltoluene	17.78	105	146084	0.95	ppbv		97
58) 1,3,5-Trimethylbenzene	17.86	105	123457	0.97	ppbv		93
59) 1,2,4-Trimethylbenzene	18.45	105	108702	0.96	ppbv		97
60) 1,3-Dichlorobenzene	19.01	146	75647	0.96	ppbv		98
61) 1,4-Dichlorobenzene	19.16	146	72467	0.96	ppbv		97
62) Benzyl chloride	19.37	91	48660	0.99	ppbv		99
63) 1,2-Dichlorobenzene	19.82	146	63172	0.93	ppbv		98
64) 1,2,4-Trichlorobenzene	23.06	180	29906	0.77	ppbv		96
65) Hexachlorobutadiene	23.26	225	63533	0.94	ppbv		98
66) Naphthalene	23.77	128	33423	0.71	ppbv	#	91

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040111\04011125.D Vial: 2
Acq On : 2 Apr 2011 9:56 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 11:21 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



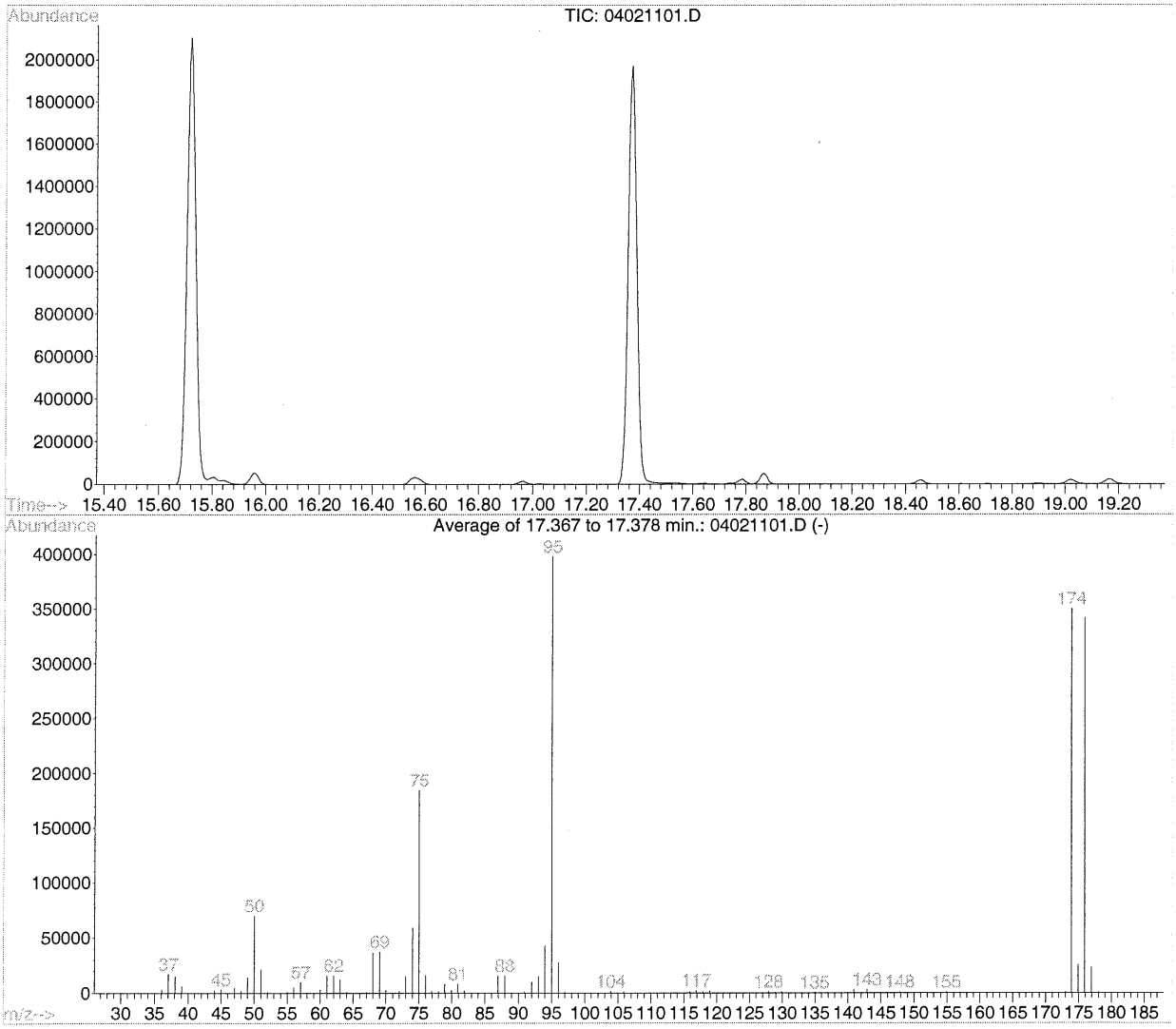
Injection Log

Directory: C:\HPCHEM\1\DATA\040211

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04021101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	2 Apr 2011 10:40
2	2	04021102.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	2 Apr 2011 11:19
3	2	04021103.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	2 Apr 2011 12:00
4	2	04021104.d	1.	MBLK	MBLK EPA_TO15-UG/M3	2 Apr 2011 12:43
5	3	04021105.d	1.	1103389-038A – DATA NOT used RLH/ck 4/15/11	SAMP EPA_TO15-UG/M3	2 Apr 2011 13:27
6	4	04021106.d	20.	1103389-001B	SAMP EPA_TO15-UG/M3	2 Apr 2011 14:11
7	4	04021107.d	40.	1103389-015B	SAMP EPA_TO15-UG/M3	2 Apr 2011 14:52
8	4	04021108.d	40.	1103389-015BDUP	DUP EPA_TO15-UG/M3	2 Apr 2011 15:33
9	6	04021109.d	20000.	1103389-002B	SAMP EPA_TO15-UG/M3	2 Apr 2011 16:14
10	7	04021110.d	40000.	1103389-002B	SAMP EPA_TO15-UG/M3	2 Apr 2011 16:56
11	8	04021111.d	200.	1103389-003B	SAMP EPA_TO15-UG/M3	2 Apr 2011 17:39
12	9	04021112.d	1600.	1103389-004B	SAMP EPA_TO15-UG/M3	2 Apr 2011 18:21
13	10	04021113.d	1600.	1103389-005B	SAMP EPA_TO15-UG/M3	2 Apr 2011 19:02
14	11	04021114.d	20000.	1103389-006B	SAMP EPA_TO15-UG/M3	2 Apr 2011 19:43
15	12	04021115.d	20000.	1103389-007B	SAMP EPA_TO15-UG/M3	2 Apr 2011 20:24
16	13	04021116.d	40000.	1103389-010B	SAMP EPA_TO15-UG/M3	2 Apr 2011 21:05
17	14	04021117.d	20000.	1103389-010B – DATA NOT used RLH/ck 4/15/11	SAMP EPA_TO15-UG/M3	2 Apr 2011 21:46
18	15	04021118.d	1600.	1103389-012B	SAMP EPA_TO15-UG/M3	2 Apr 2011 22:28
19	16	04021119.d	1600.	1103389-014B	SAMP EPA_TO15-UG/M3	2 Apr 2011 23:09
20	2	04021120.d	1600.	1103389-016B	SAMP EPA_TO15-UG/M3	2 Apr 2011 23:51
21	3	04021121.d	1600.	1103389-017B	SAMP EPA_TO15-UG/M3	3 Apr 2011 00:33
22	1	04021122.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	3 Apr 2011 01:14

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040211\04021101.D Vial: 1
Acq On : 2 Apr 2011 10:40 am Operator: Michael Truchan/Rachel Hill
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : TUNE BFB_TUNE Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv



Spectrum Information: Average of 17.367 to 17.378 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	69811	PASS
75	95	30	60	46.4	184491	PASS
95	95	100	100	100.0	397632	PASS
96	95	5	9	6.9	27253	PASS
173	174	0.00	2	0.2	831	PASS
174	95	50	120	88.0	349952	PASS
175	174	4	9	7.3	25483	PASS
176	174	93	101	97.6	341611	PASS
177	176	5	9	6.8	23219	PASS

04021101.D 031611V1.M Thu Apr 14 12:14:36 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040211\04021102.D Vial: 2
Acq On : 2 Apr 2011 11:19 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	78	0.00
2	T	Propylene	0.937	0.926	1.2	82	0.00
3	T	Dichlorodifluoromethane	3.080	2.991	2.9	81	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.133	5.9	78	0.00
5	T	Chloromethane	1.061	1.330	-25.4	105	0.00
6	T	Vinyl chloride	1.201	1.167	2.8	78	0.02
7	T	1,3-Butadiene	0.945	0.921	2.5	80	0.02
8	T	Bromomethane	1.100	0.605	45.0#	45#	0.00
9	T	Chloroethane	0.640	0.489	23.6	63	0.00
10	T	Trichlorofluoromethane	2.939	2.723	7.3	77	0.00
11	T	Ethanol	0.208	0.240	-15.4	100	0.00
12	T	Freon113	2.361	2.188	7.3	76	0.00
13	T	1,1-Dichloroethene	1.731	1.451	16.2	69	0.00
14	T	Acetone	1.541	1.364	11.5	78	0.00
15	T	Carbon disulfide	3.087	2.659	13.9	71	0.00
16	T	2-Propanol	1.109	1.199	-8.1	91	0.00
17	T	Methylene chloride	1.259	1.101	12.5	73	0.00
18	T	tert-Butyl Methyl Ether	2.858	2.499	12.6	78	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.523	6.6	77	0.00
20	T	n-Hexane	1.825	1.577	13.6	72	0.00
21	T	1,1-Dichloroethane	2.005	1.992	0.6	82	0.00
22	T	Vinyl acetate	2.051	1.618	21.1	69	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.107	3.4	80	0.00
24	T	2-Butanone	1.589	1.547	2.6	89	0.00
25	T	Ethyl acetate	1.982	2.024	-2.1	91	0.00
26	T	Tetrahydrofuran	1.042	1.131	-8.5	92	0.00
27	T	Chloroform	2.179	2.124	2.5	81	0.00
28	T	1,1,1-Trichloroethane	2.251	2.204	2.1	81	0.00
29	T	Cyclohexane	1.848	1.780	3.7	80	0.00
30	T	Carbon tetrachloride	2.254	2.258	-0.2	82	0.00
31	T	Benzene	3.090	2.916	5.6	83	0.00
32	T	1,2-Dichloroethane	1.244	1.212	2.6	83	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	80	0.00
34	T	Heptane	0.604	0.563	6.8	81	0.00
35	T	Trichloroethene	0.426	0.678	-59.2#	139	0.00
36	T	1,2-Dichloropropane	0.301	0.273	9.3	80	0.00
37	T	1,4-Dioxane	0.120	0.110	8.3	81	0.00
38	T	Bromodichloromethane	0.589	0.565	4.1	83	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.413	10.8	78	0.00
40	T	4-Methyl-2-pentanone	0.138	0.160	-15.9	101	0.00
41	T	Toluene	0.942	0.884	6.2	85	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.332	13.3	76	0.00
43	T	1,1,2-Trichloroethane	0.307	0.267	13.0	77	0.00
44	T	Tetrachloroethene	0.522	0.493	5.6	82	0.00
45	T	2-Hexanone	0.201	0.297	-47.8#	119	0.00
46	T	Chlorodibromomethane	0.515	0.471	8.5	79	0.00
47	T	1,2-Dibromoethane	0.447	0.341	23.7	67	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
49	T	Chlorobenzene	0.879	0.745	15.2	78	0.00
50	T	Ethylbenzene	1.453	1.351	7.0	89	0.00
51	T	m,p-Xylene	1.125	1.013	10.0	84	0.00
52	T	o-Xylene	1.096	0.996	9.1	86	0.00
53	T	Styrene	0.752	0.720	4.3	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040211\04021102.D Vial: 2
Acq On : 2 Apr 2011 11:19 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.552	12.5	80	0.00
55	S	4-Bromofluorobenzene	0.627	0.593	5.4	79	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.094	84.9#	14#	0.00
57	T	4-Ethyltoluene	1.309	1.094	16.4	80	0.00
58	T	1,3,5-Trimethylbenzene	1.080	0.933	13.6	84	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.833	13.7	81	0.00
60	T	1,3-Dichlorobenzene	0.671	0.588	12.4	82	0.00
61	T	1,4-Dichlorobenzene	0.642	0.570	11.2	82	0.00
62	T	Benzyl chloride	0.420	0.116	72.4#	26#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.508	12.4	83	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.285	13.6	73	0.00
65	T	Hexachlorobutadiene	0.578	0.449	22.3	71	0.00
66		Naphthalene	0.402	0.354	11.9	76	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021102.D Vial: 2
Acq On : 2 Apr 2011 11:19 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 12:44 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	596044	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2173361	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1580686	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	937606	11.83	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 94.64%				
Target Compounds							Qvalue
2) Propylene	5.69	41	450342	10.08	ppbv		99
3) Dichlorodifluoromethane	5.76	85	1312292	8.94	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	966016	8.94	ppbv		93
5) Chloromethane	6.18	50	602456	11.90	ppbv		99
6) Vinyl chloride	6.40	62	523237	9.14	ppbv		99
7) 1,3-Butadiene	6.46	39	430193	9.55	ppbv		96
8) Bromomethane	7.03	94	268100	5.11	ppbv		99
9) Chloroethane	7.18	64	214632	7.04	ppbv		98
10) Trichlorofluoromethane	7.51	101	1246703	8.90	ppbv		99
11) Ethanol	7.73	45	105441	10.64	ppbv		99
12) Freon113	8.17	101	1022604	9.08	ppbv		96
13) 1,1-Dichloroethene	8.28	61	684784	8.30	ppbv		94
14) Acetone	8.36	43	650240	8.85	ppbv		97
15) Carbon disulfide	8.65	76	1229903	8.35	ppbv	#	100
16) 2-Propanol	8.40	45	577471	10.92	ppbv		88
17) Methylene chloride	8.93	49	525176	8.75	ppbv		91
18) tert-Butyl Methyl Ether	9.13	73	1179549	8.65	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	711501	9.15	ppbv		93
20) n-Hexane	9.40	57	759526	8.73	ppbv		95
21) 1,1-Dichloroethane	9.77	63	921393	9.64	ppbv		99
22) Vinyl acetate	9.70	43	763860	7.81	ppbv		98
23) cis-1,2-Dichloroethene	10.46	96	517217	9.46	ppbv		94
24) 2-Butanone	10.42	43	730407	9.64	ppbv		95
25) Ethyl acetate	10.37	43	945980	10.01	ppbv	#	100
26) Tetrahydrofuran	10.76	42	539279	10.86	ppbv		95
27) Chloroform	10.78	83	992552	9.55	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1008679	9.40	ppbv		98
29) Cyclohexane	11.04	56	831651	9.44	ppbv		95
30) Carbon tetrachloride	11.20	117	1022791	9.52	ppbv		99
31) Benzene	11.48	78	1334842	9.06	ppbv		98
32) 1,2-Dichloroethane	11.55	62	560425	9.44	ppbv		99
34) Heptane	11.52	43	969676	9.24	ppbv		96
35) Trichloroethene	12.20	130	1131401	15.27	ppbv		97
36) 1,2-Dichloropropane	12.57	63	465012	8.89	ppbv		99
37) 1,4-Dioxane	12.64	88	184063	8.83	ppbv		96
38) Bromodichloromethane	12.85	83	943669	9.21	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	682149	8.48	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	277862	11.62	ppbv		97
41) Toluene	13.80	91	1507007	9.20	ppbv		99
42) trans-1,3-Dichloropropene	14.11	75	524643	7.88	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	454177	8.51	ppbv		98
44) Tetrachloroethene	14.51	166	823195	9.07	ppbv		99
45) 2-Hexanone	14.58	43	506115	14.45	ppbv		98
46) Chlorodibromomethane	14.93	129	802223	8.96	ppbv		99
47) 1,2-Dibromoethane	15.17	107	569530	7.32	ppbv		99
49) Chlorobenzene	15.76	112	932773	8.39	ppbv	#	93
50) Ethylbenzene	15.81	91	1674476	9.11	ppbv		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021102.D Vial: 2
Acq On : 2 Apr 2011 11:19 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 12:44 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

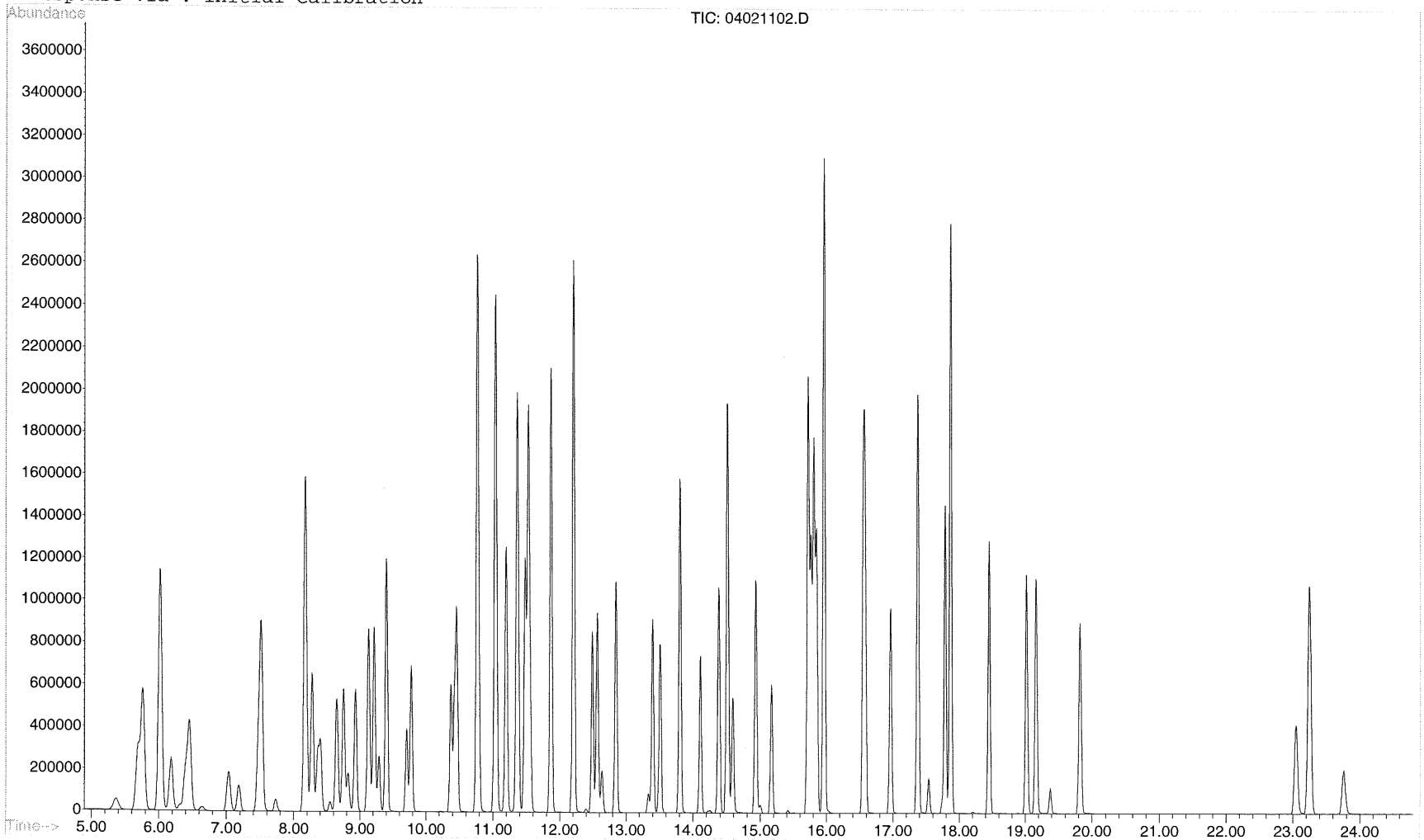
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	2459800	17.29	ppbv		96
52)	o-Xylene	16.56	91	1259494	9.09	ppbv		95
53)	Styrene	16.58	104	891839	9.38	ppbv		98
54)	Bromoform	16.96	173	670471	8.41	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	118921	1.51	ppbv		99
57)	4-Ethyltoluene	17.79	105	1355131	8.18	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	1144526	8.38	ppbv	#	56
59)	1,2,4-Trimethylbenzene	18.45	105	1032887	8.47	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	720933	8.49	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	692452	8.53	ppbv		99
62)	Benzyl chloride	19.38	91	141864	2.67	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	623508	8.51	ppbv		99
64)	1,2,4-Trichlorobenzene	23.05	180	327846	7.84	ppbv		99
65)	Hexachlorobutadiene	23.25	225	533181	7.29	ppbv		99
66)	Naphthalene	23.76	128	412107	8.11	ppbv		100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021102.D Vial: 2
Acq On : 2 Apr 2011 11:19 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 12:44 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021103.D Vial: 2
Acq On : 2 Apr 2011 12:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 13:25 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	606027	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2249611	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1615032	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	977061	12.07	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.56%				
Target Compounds							Qvalue
2) Propylene	5.69	41	48047	1.06	ppbv		99
3) Dichlorodifluoromethane	5.76	85	141310	0.95	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	103421	0.94	ppbv		93
5) Chloromethane	6.18	50	53442	1.04	ppbv	#	96
6) Vinyl chloride	6.39	62	58439	1.00	ppbv	#	97
7) 1,3-Butadiene	6.45	39	48499	1.06	ppbv		94
8) Bromomethane	7.03	94	49819	0.93	ppbv		99
9) Chloroethane	7.18	64	28514	0.92	ppbv	#	97
10) Trichlorofluoromethane	7.51	101	140794	0.99	ppbv		98
11) Ethanol	7.74	45	10260	1.02	ppbv		92
12) Freon113	8.17	101	112198	0.98	ppbv		98
13) 1,1-Dichloroethene	8.27	61	86730	1.03	ppbv		93
14) Acetone	8.36	43	77094	1.03	ppbv	#	94
15) Carbon disulfide	8.64	76	146852	0.98	ppbv	#	98
16) 2-Propanol	8.41	45	45412	0.84	ppbv	#	64
17) Methylene chloride	8.93	49	66137	1.08	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	145035	1.05	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	80073	1.01	ppbv		93
20) n-Hexane	9.40	57	92092	1.04	ppbv	#	93
21) 1,1-Dichloroethane	9.77	63	100655	1.04	ppbv		98
22) Vinyl acetate	9.71	43	103366	1.04	ppbv	#	97
23) cis-1,2-Dichloroethene	10.46	96	56715	1.02	ppbv		94
24) 2-Butanone	10.43	43	76603	0.99	ppbv		93
25) Ethyl acetate	10.37	43	89999	0.94	ppbv	#	100
26) Tetrahydrofuran	10.76	42	47823	0.95	ppbv		95
27) Chloroform	10.78	83	115863	1.10	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	115214	1.06	ppbv		98
29) Cyclohexane	11.04	56	92839	1.04	ppbv		94
30) Carbon tetrachloride	11.20	117	112129	1.03	ppbv		99
31) Benzene	11.48	78	163725	1.09	ppbv		98
32) 1,2-Dichloroethane	11.55	62	69160	1.15	ppbv		98
34) Heptane	11.52	43	112941	1.04	ppbv		94
35) Trichloroethene	12.21	130	74431	0.97	ppbv		98
36) 1,2-Dichloropropane	12.56	63	56274	1.04	ppbv		100
37) 1,4-Dioxane	12.64	88	23598	1.09	ppbv		97
38) Bromodichloromethane	12.84	83	105660	1.00	ppbv		97
39) cis-1,3-Dichloropropene	13.40	75	80607	0.97	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	18088	0.73	ppbv		96
41) Toluene	13.81	91	175925	1.04	ppbv		98
42) trans-1,3-Dichloropropene	14.11	75	61833	0.90	ppbv		96
43) 1,1,2-Trichloroethane	14.38	97	55415	1.00	ppbv		98
44) Tetrachloroethene	14.51	166	97087	1.03	ppbv		99
45) 2-Hexanone	14.58	43	30790	0.85	ppbv		95
46) Chlorodibromomethane	14.93	129	93008	1.00	ppbv		100
47) 1,2-Dibromoethane	15.17	107	80766	1.00	ppbv		99
49) Chlorobenzene	15.76	112	116178	1.02	ppbv	#	81
50) Ethylbenzene	15.80	91	192441	1.02	ppbv		92

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021103.D Vial: 2
Acq On : 2 Apr 2011 12:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 13:25 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

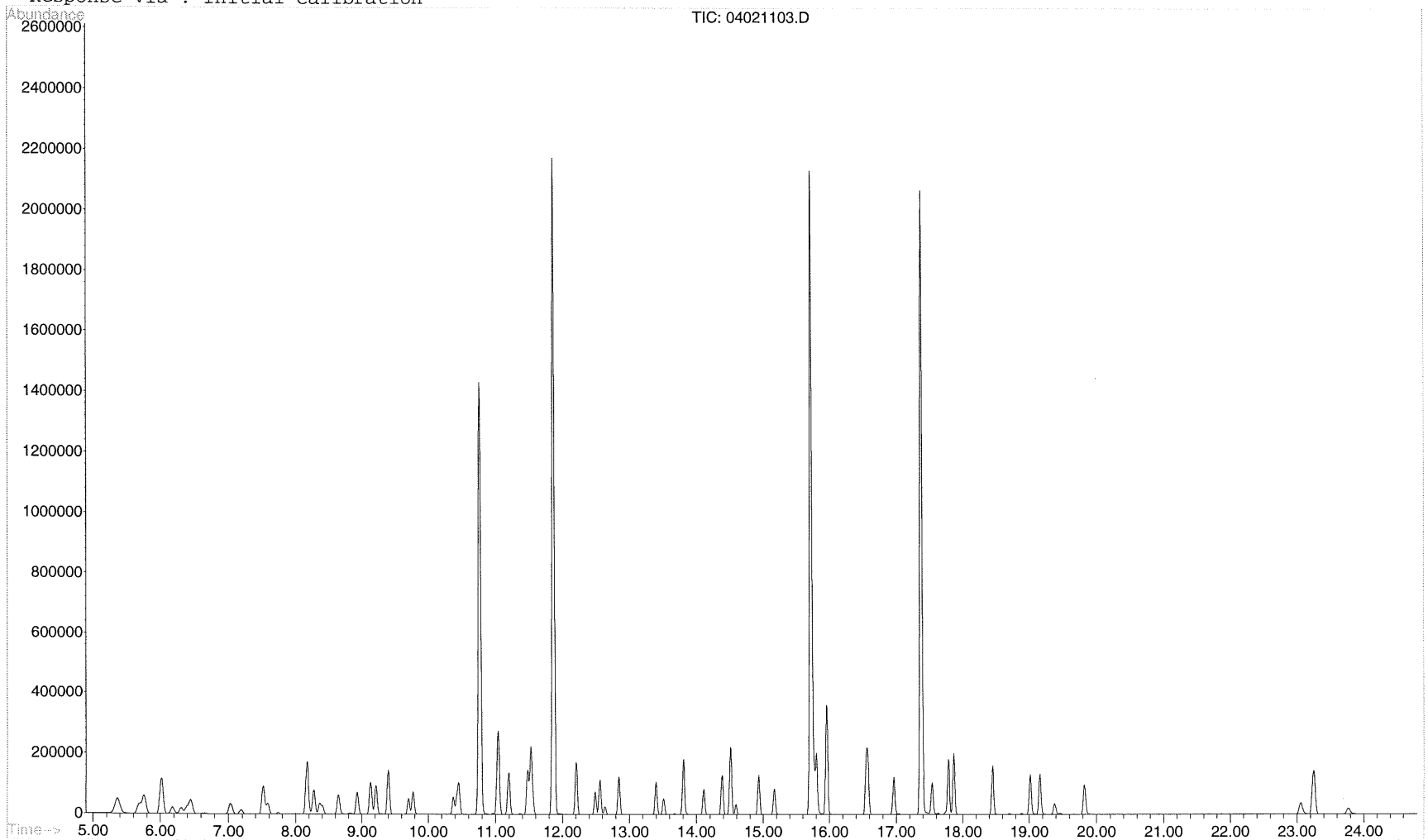
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	297191	2.04	ppbv		93
52)	o-Xylene	16.55	91	148719	1.05	ppbv		96
53)	Styrene	16.58	104	99753	1.03	ppbv		99
54)	Bromoform	16.96	173	84460	1.04	ppbv		100
56)	1,1,2,2-Tetrachloroethane	17.53	83	76338	0.95	ppbv		96
57)	4-Ethyltoluene	17.79	105	174414	1.03	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	149206	1.07	ppbv		94
59)	1,2,4-Trimethylbenzene	18.45	105	129252	1.04	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	91612	1.06	ppbv		98
61)	1,4-Dichlorobenzene	19.16	146	88868	1.07	ppbv		98
62)	Benzyl chloride	19.38	91	56357	1.04	ppbv		98
63)	1,2-Dichlorobenzene	19.83	146	77243	1.03	ppbv		96
64)	1,2,4-Trichlorobenzene	23.06	180	39776	0.93	ppbv		97
65)	Hexachlorobutadiene	23.25	225	73781	0.99	ppbv		99
66)	Naphthalene	23.77	128	55017	1.06	ppbv	#	94

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021103.D Vial: 2
Acq On : 2 Apr 2011 12:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 13:25 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021104.D Vial: 2
Acq On : 2 Apr 2011 12:43 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 14:08 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

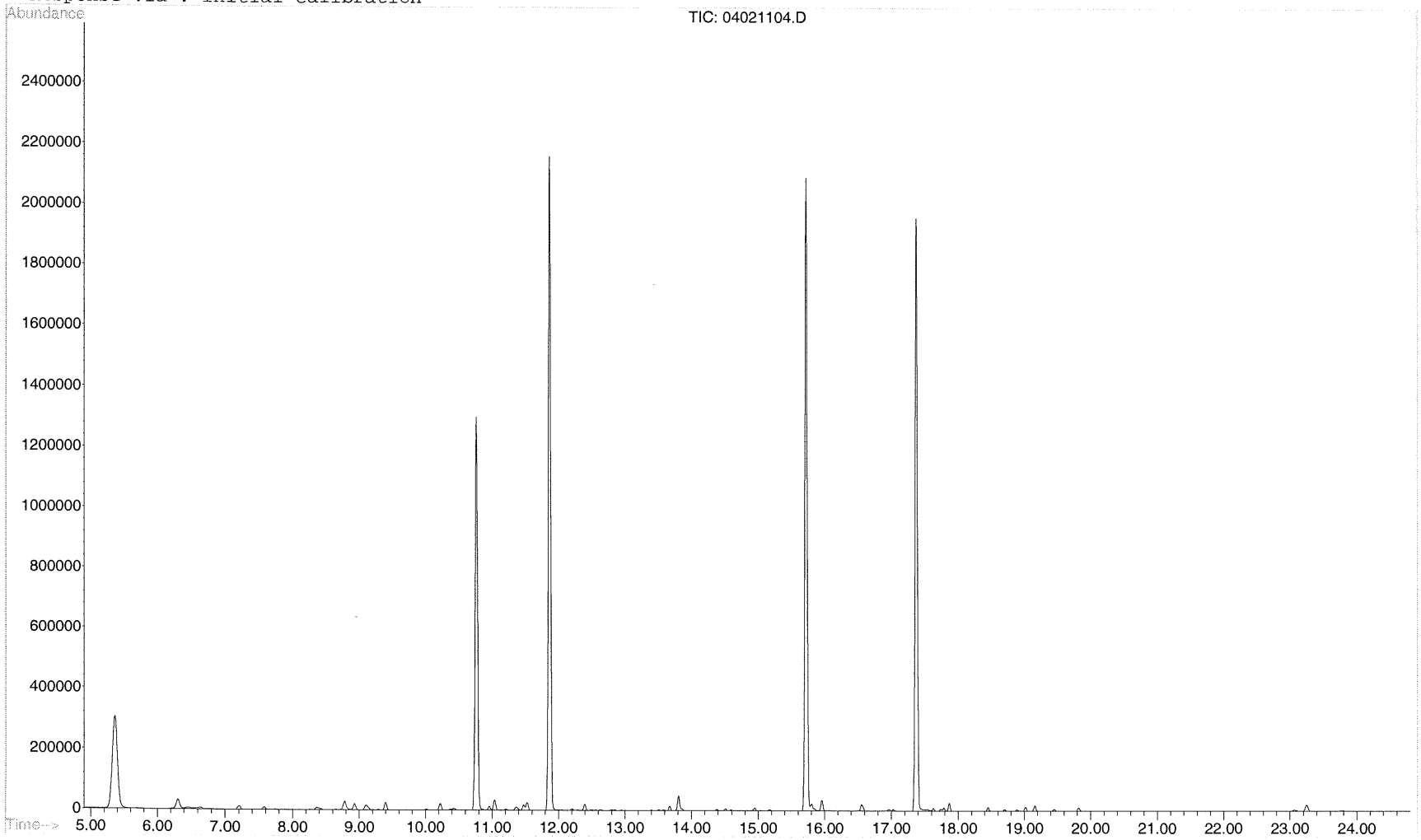
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	607636	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2223336	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1590860	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	924786	11.60	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 92.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
04021104.D 031611V1.M Thu Apr 14 12:16:09 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021104.D Vial: 2
Acq On : 2 Apr 2011 12:43 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 2 14:08 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021106.D Vial: 4
Acq On : 2 Apr 2011 2:11 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:34 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.77	130	556668	12.50	ppbv	0.01
33) 1,4-Difluorobenzene	11.87	114	2125204	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1570417	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1001989	12.73	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.84%			
Target Compounds						Qvalue
11) Ethanol	7.75	45	6369	0.69	ppbv #	57
14) Acetone	8.37	43	255661	3.73	ppbv #	92
16) 2-Propanol	8.43	45	227759	4.61	ppbv #	1
20) n-Hexane *	9.39	57	843308	10.37	ppbv	98
29) Cyclohexane *	11.04	56	955750	11.61	ppbv #	81
31) Benzene	11.48	78	1004222	7.30	ppbv	96
34) Heptane	11.52	43	323658	3.15	ppbv #	87
41) Toluene	13.81	91	574929	3.59	ppbv	98
51) m,p-Xylene	15.96	91	84583	0.60	ppbv	92

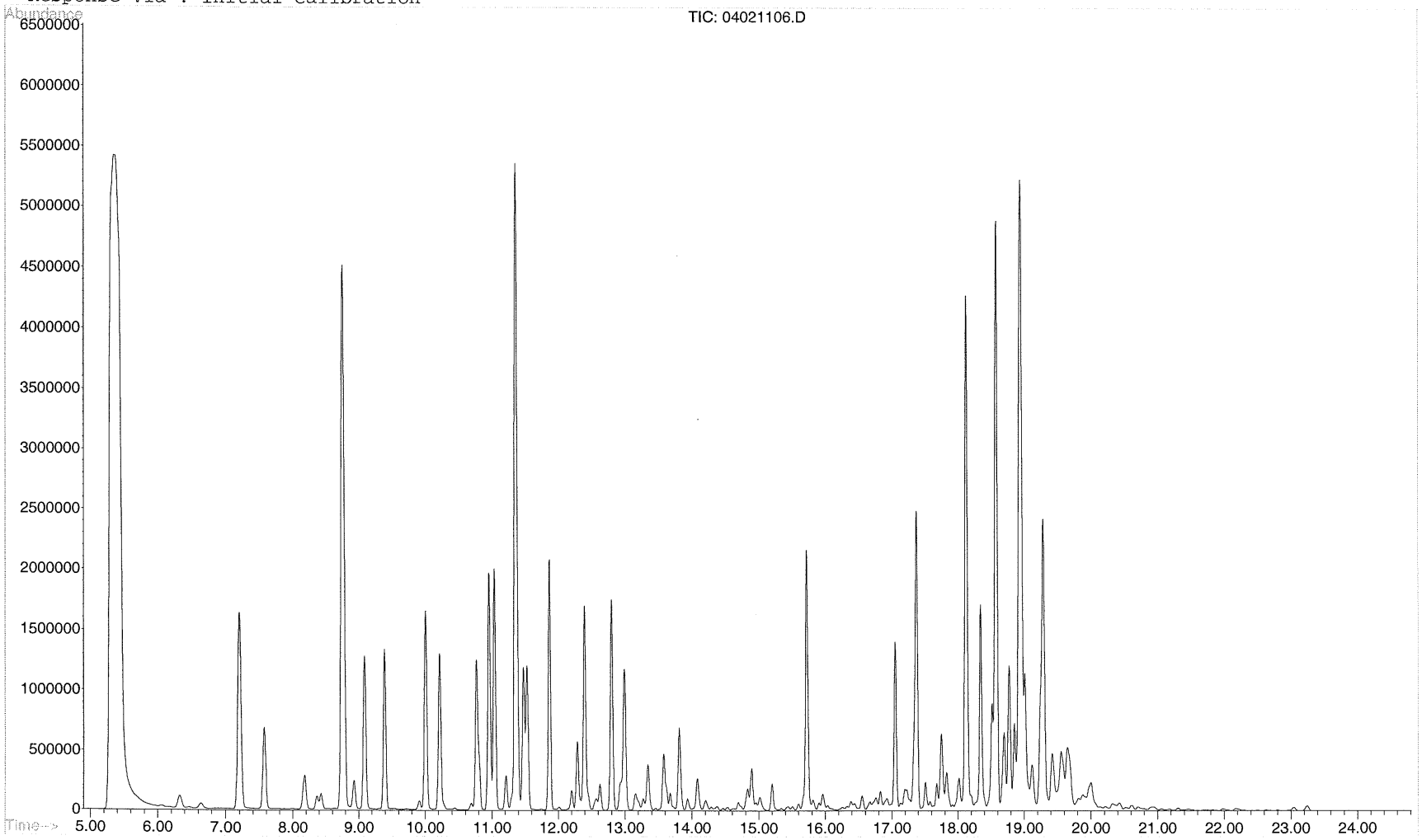
* REPORTED COMPOUNDS CA 4/15/11

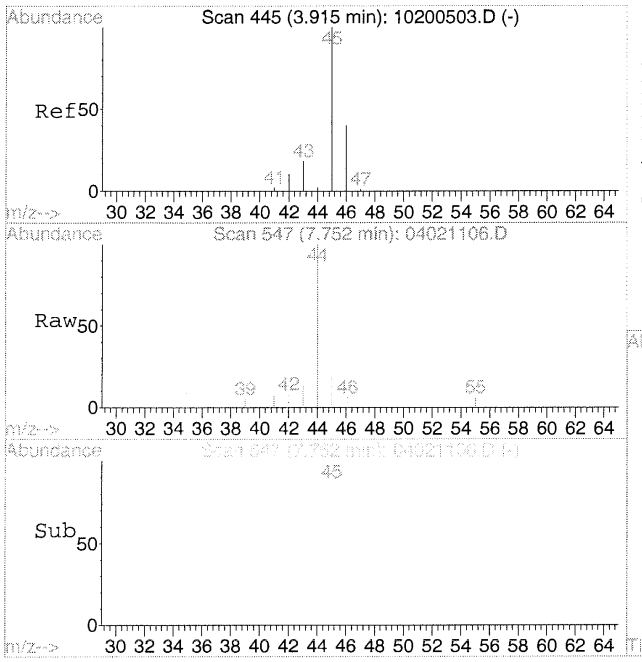
(#) = qualifier out of range (m) = manual integration
04021106.D 031611V1.M Thu Apr 14 12:16:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021106.D Vial: 4
Acq On : 2 Apr 2011 2:11 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:34 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

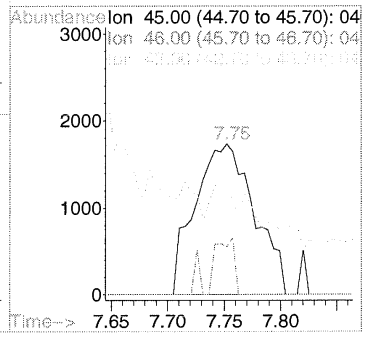


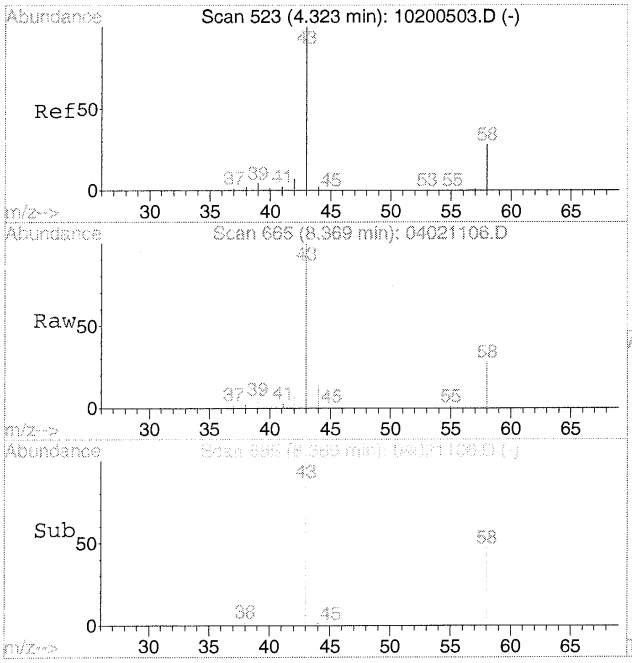


#11
Ethanol
Concen: 0.69 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 45 Resp: 6369

Ion	Ratio	Lower	Upper
45	100		
46	11.8	30.2	45.4#
43	0.0	15.8	23.6#

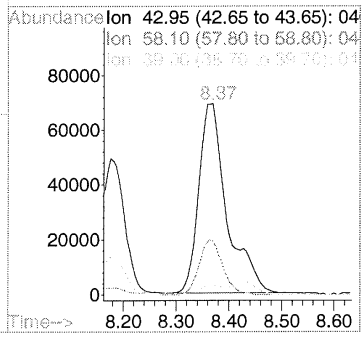


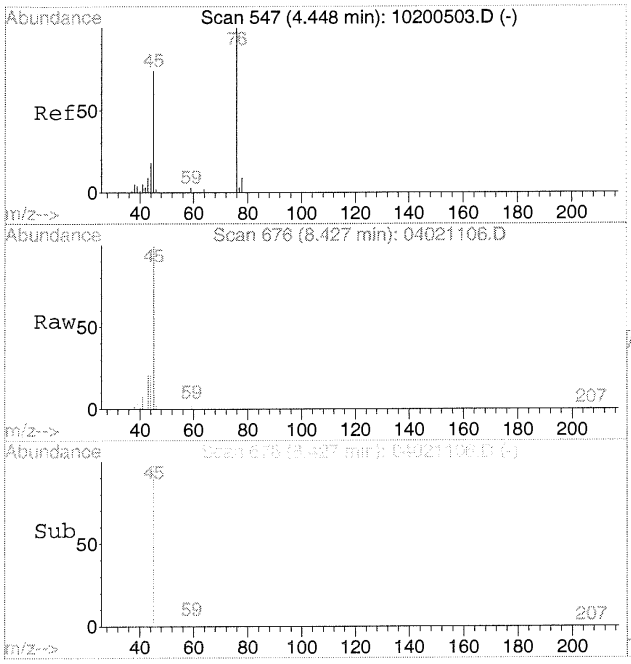


#14
Acetone
Concen: 3.73 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 43 Resp: 255661

Ion	Ratio	Lower	Upper
43	100		
58	24.1	22.0	33.0
39	4.1	6.5	9.7#

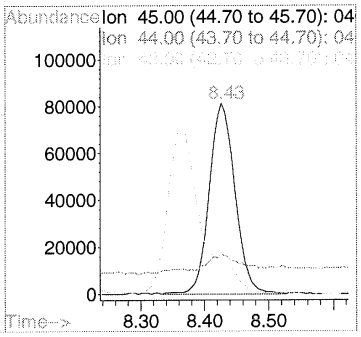


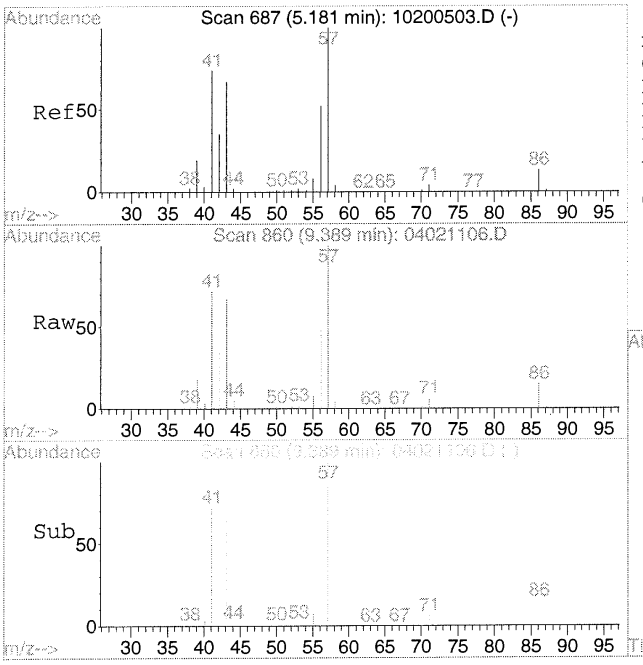


#16
2-Propanol
Concen: 4.61 ppbv
RT: 8.43 min Scan# 676
Delta R.T. 0.03 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 45 Resp: 227759

Ion	Ratio	Lower	Upper
45	100		
44	9.7	5.2	7.8#
43	0.0	101.1	151.7#

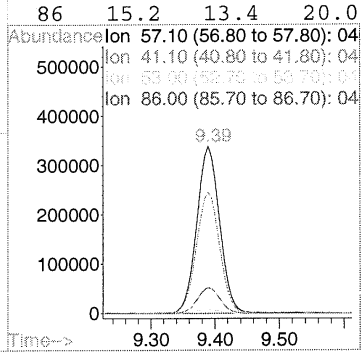


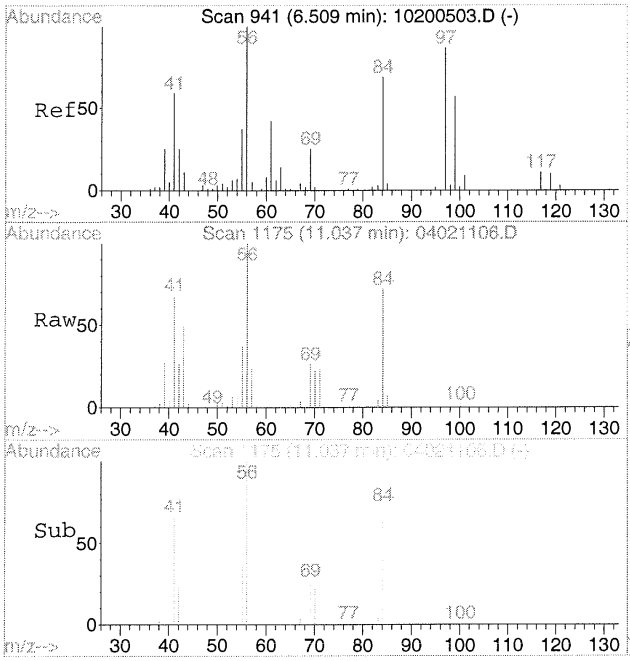


#20
n-Hexane
Concen: 10.37 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 57 Resp: 843308

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.3	1.8	2.8
86	15.2	13.4	20.0

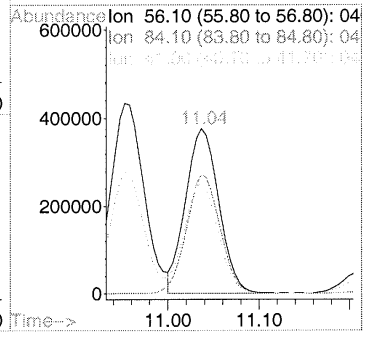


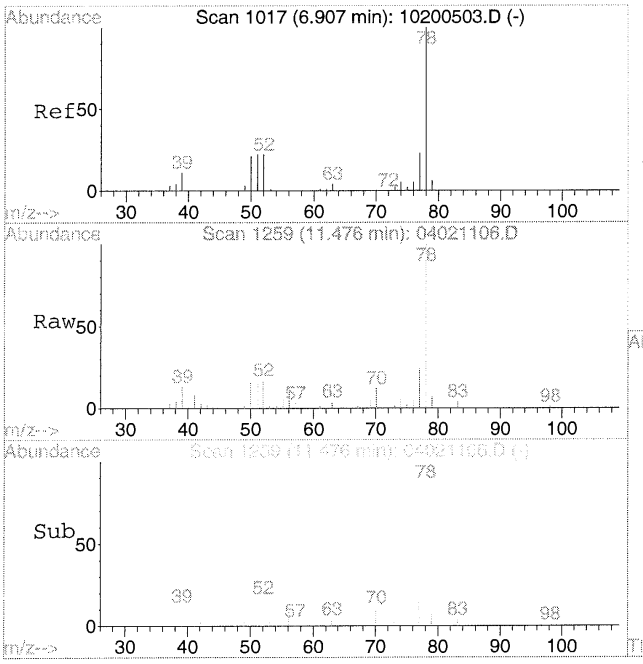


#29
Cyclohexane
Concen: 11.61 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 56 Resp: 955750

Ion	Ratio	Lower	Upper
56	100		
84	73.4	72.4	108.6
41	69.2	43.8	65.8#

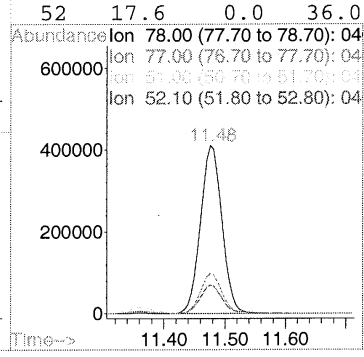


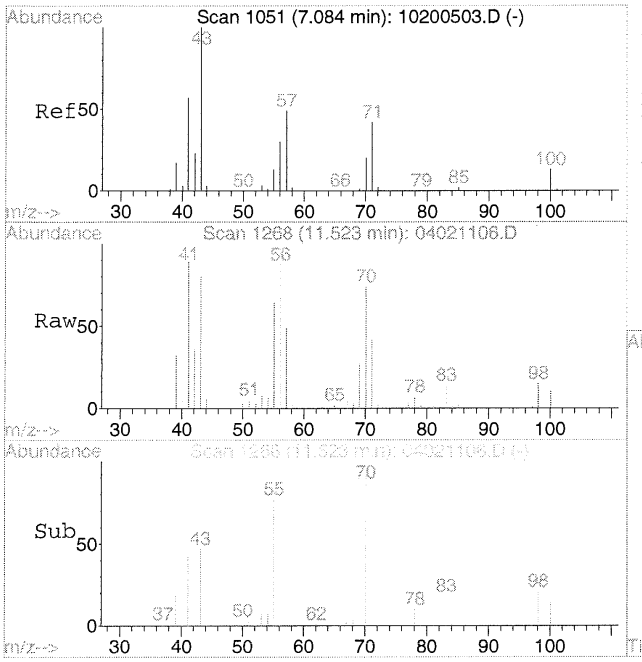


#31
Benzene
Concen: 7.30 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 78 Resp: 1004222

Ion	Ratio	Lower	Upper
78	100		
77	24.4	3.7	43.7
51	19.3	0.0	36.1
52	17.6	0.0	36.0

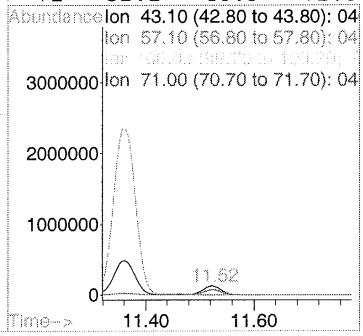


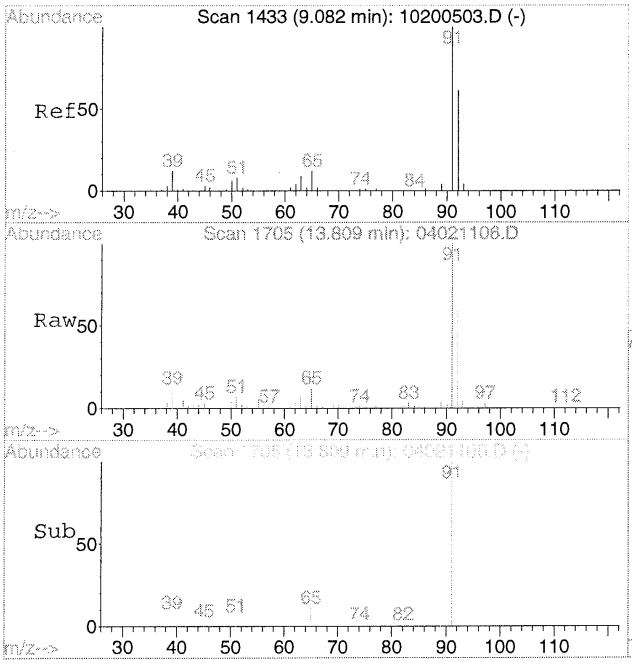


#34
Heptane
Concen: 3.15 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 43 Resp: 323658

Ion	Ratio	Lower	Upper
43	100		
57	62.0	42.2	63.4
100	12.6	17.3	25.9#
71	52.1	48.3	72.5

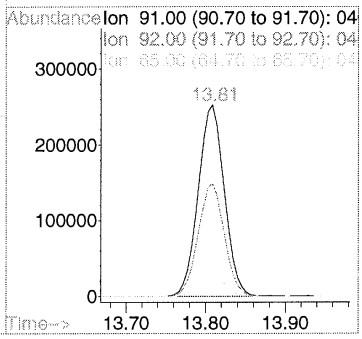


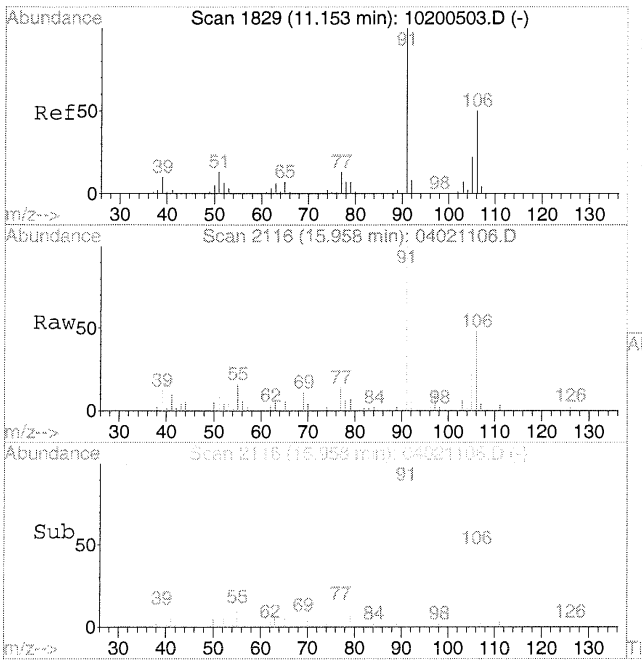


#41
Toluene
Concen: 3.59 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.01 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 91 Resp: 574929

Ion	Ratio	Lower	Upper
91	100		
92	58.9	40.5	80.5
65	11.6	0.0	31.2

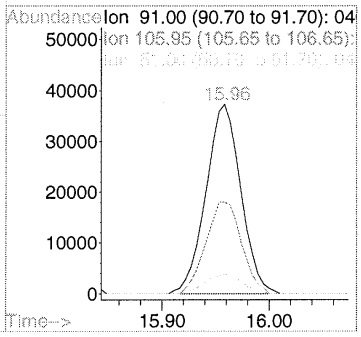




#51
m,p-Xylene
Concen: 0.60 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021106.D
Acq: 2 Apr 2011 2:11 pm

Tgt Ion: 91 Resp: 84583

Ion	Ratio	Lower	Upper
91	100		
106	49.4	35.6	75.6
51	11.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:35 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

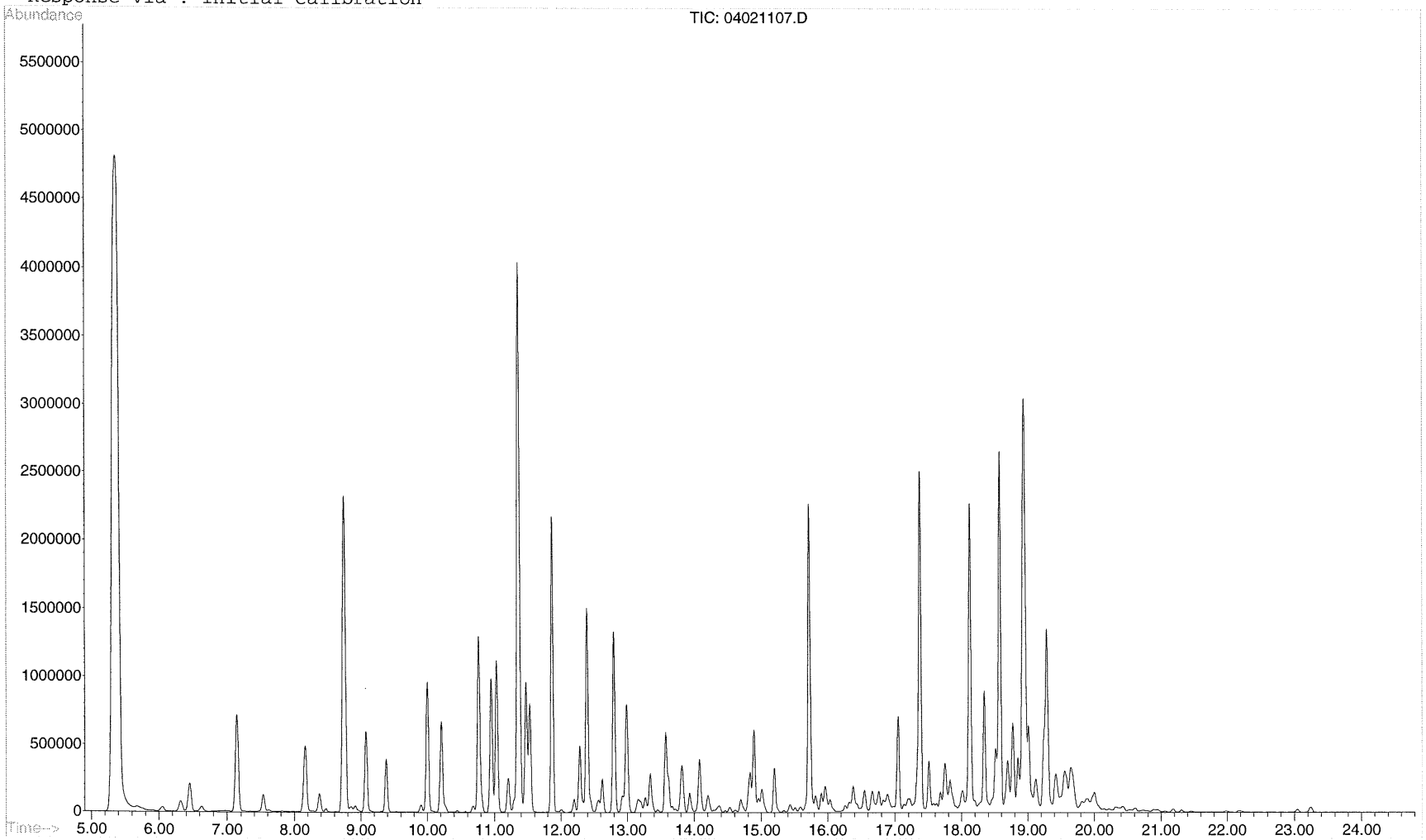
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	566358	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2195057	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1646902	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1111137	13.46	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 107.68%				
Target Compounds							Qvalue
14) Acetone	8.37	43	238725	3.42	ppbv	#	92
20) n-Hexane	9.38	57	247002	2.99	ppbv		95
29) Cyclohexane	11.03	56	525672	6.28	ppbv	#	79
31) Benzene	11.48	78	814567	5.82	ppbv		96
34) Heptane	11.52	43	120062	1.13	ppbv	#	74
41) Toluene	13.81	91	194905	1.18	ppbv		97
51) m,p-Xylene	15.96	91	104429	0.70	ppbv		92
52) o-Xylene	16.55	91	95377	0.66	ppbv	#	90

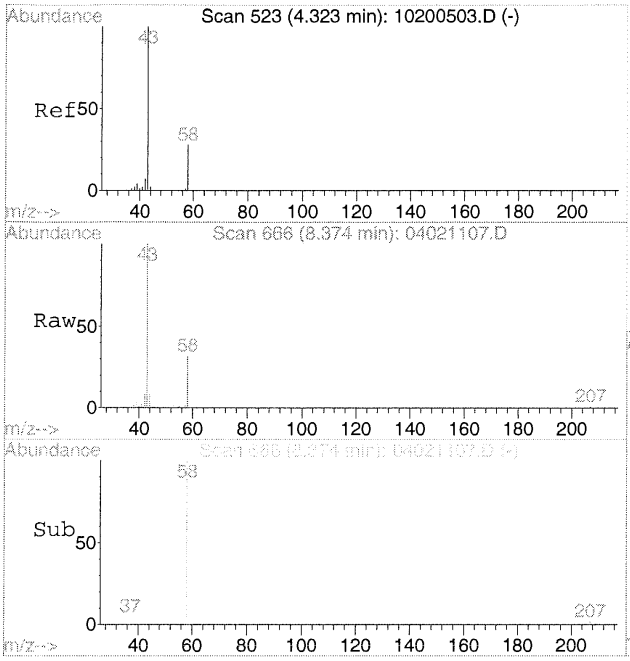
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:35 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

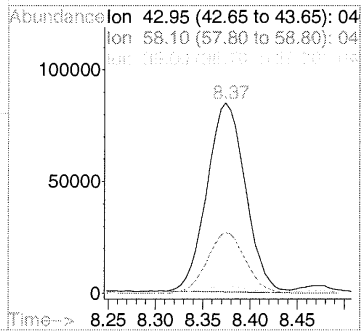


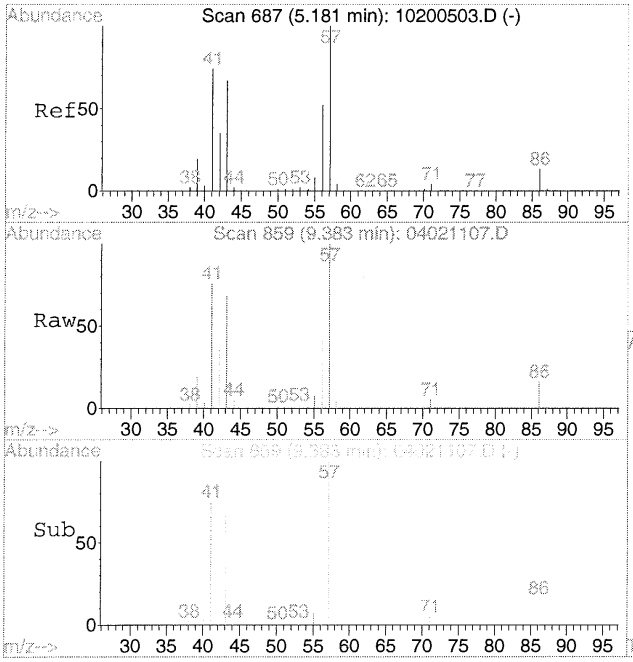


#14
Acetone
Concen: 3.42 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.02 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 43 Resp: 238725

Ion	Ratio	Lower	Upper
43	100		
58	31.8	22.0	33.0
39	4.9	6.5	9.7#

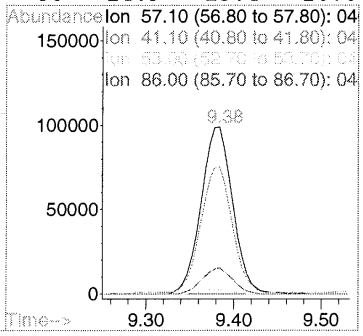


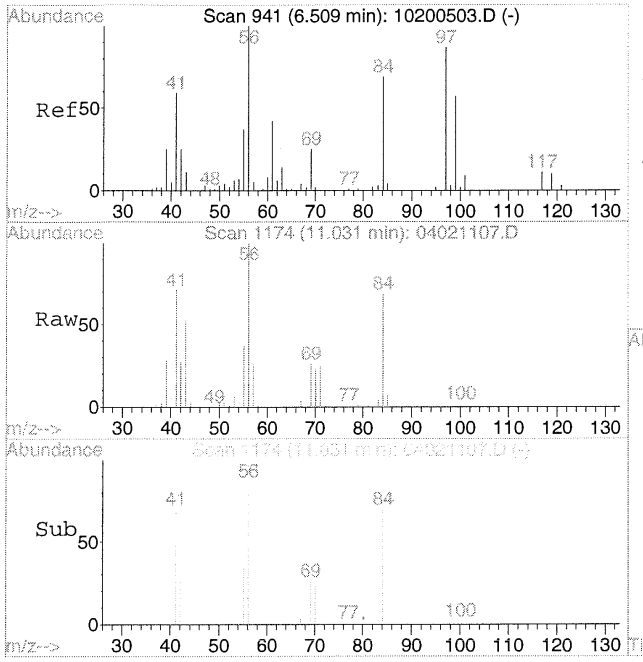


#20
n-Hexane
Concen: 2.99 ppbv
RT: 9.38 min Scan# 859
Delta R.T. -0.01 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 57 Resp: 247002

Ion	Ratio	Lower	Upper
57	100		
41	75.5	57.2	85.8
53	2.4	1.8	2.8
86	14.9	13.4	20.0

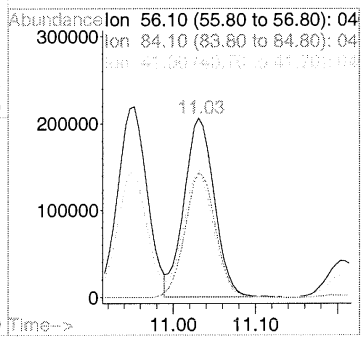


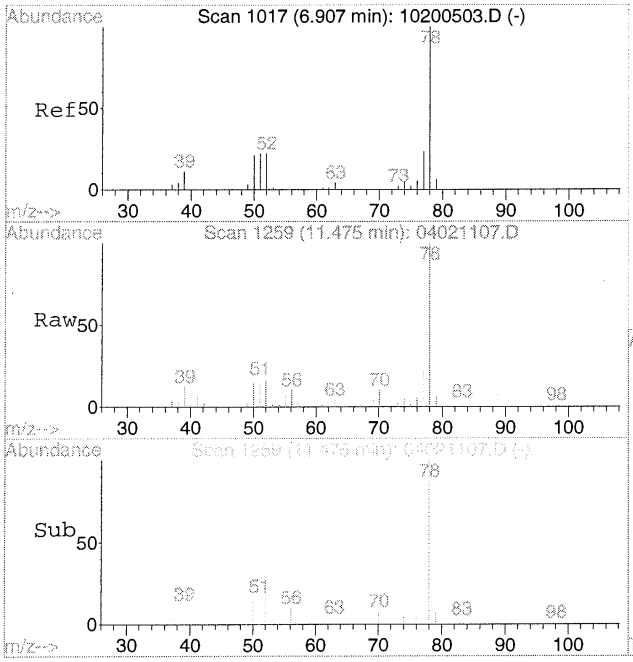


#29
Cyclohexane
Concen: 6.28 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.01 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 56 Resp: 525672

Ion	Ratio	Lower	Upper
56	100		
84	70.8	72.4	108.6#
41	70.2	43.8	65.8#

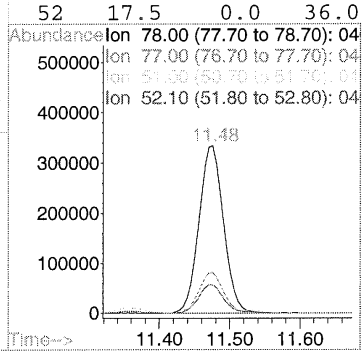


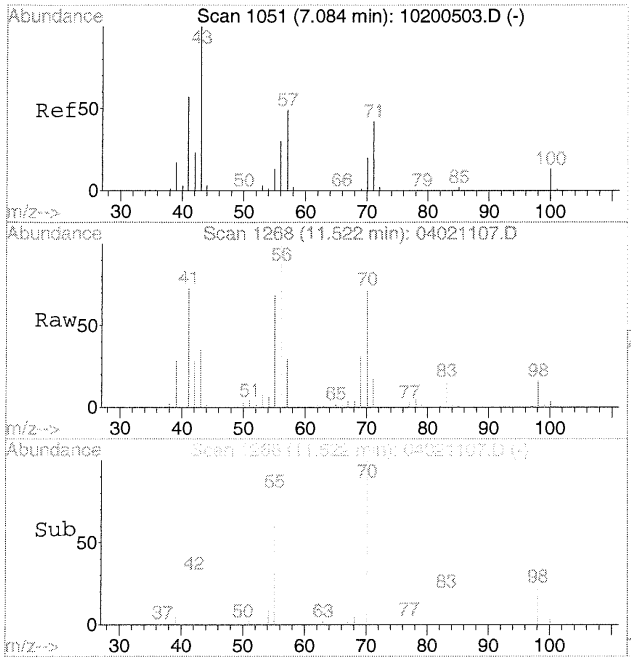


#31
Benzene
Concen: 5.82 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 78 Resp: 814567

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	19.2	0.0	36.1
52	17.5	0.0	36.0

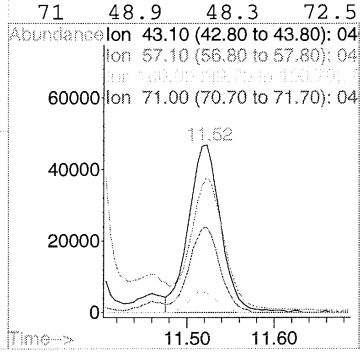


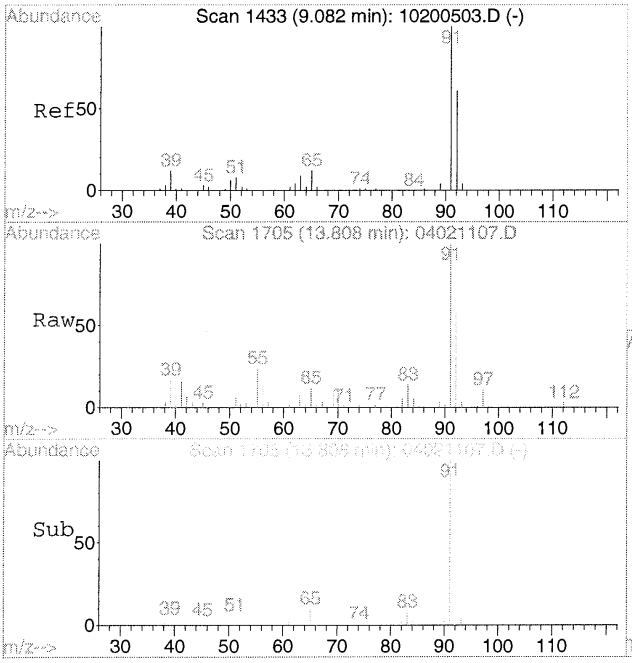


#34
Heptane
Concen: 1.13 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 43 Resp: 120062

Ion	Ratio	Lower	Upper
43	100		
57	81.7	42.2	63.4#
100	10.7	17.3	25.9#
71	48.9	48.3	72.5

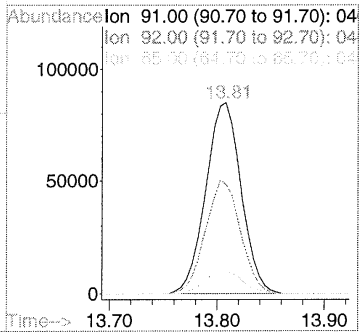


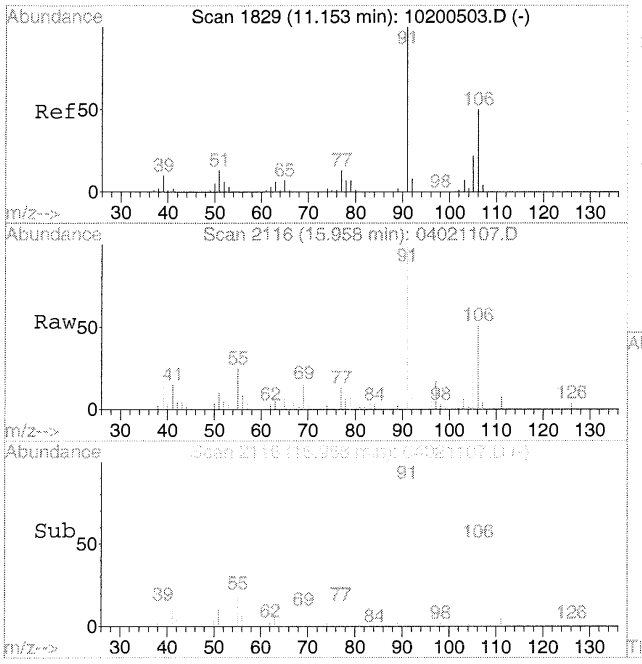


#41
Toluene
Concen: 1.18 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 91 Resp: 194905

Ion	Ratio	Lower	Upper
91	100		
92	58.6	40.5	80.5
65	12.8	0.0	31.2

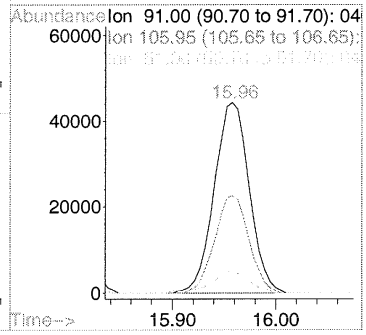


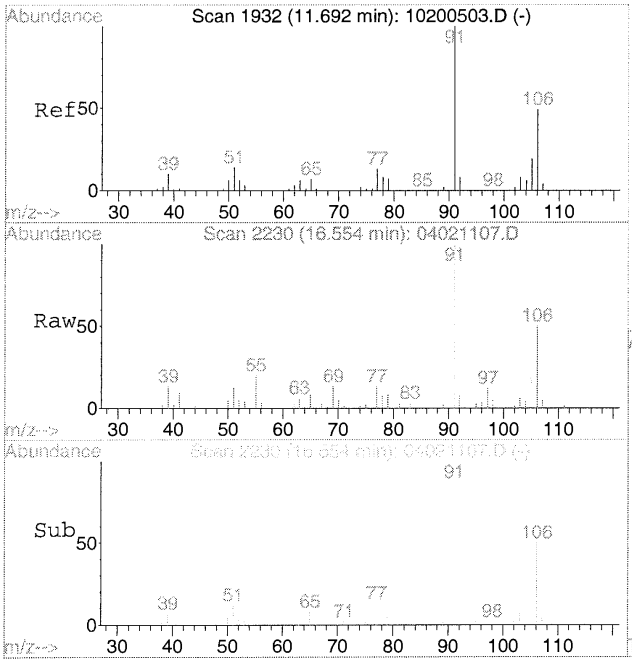


#51
m,p-Xylene
Concen: 0.70 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 91 Resp: 104429

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	12.6	0.0	29.6

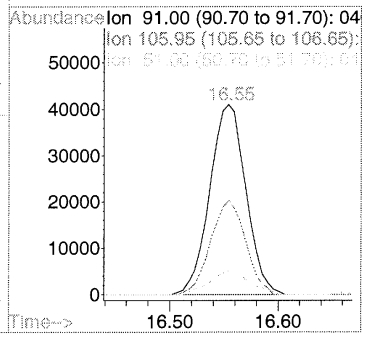




#52
o-Xylene
Concen: 0.66 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021107.D
Acq: 2 Apr 2011 2:52 pm

Tgt Ion: 91 Resp: 95377

Ion	Ratio	Lower	Upper
91	100		
106	47.8	41.0	61.6
51	13.7	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.356	60	89	139	rBV	4812908	32990994	100.00%	20.628%
2	6.454	285	299	312	rVV2	205839	677380	2.05%	0.424%
3	7.140	415	430	445	rBV	715099	2234219	6.77%	1.397%
4	7.532	491	505	516	rBV	124225	355874	1.08%	0.223%
5	8.159	611	625	642	rBV	485729	1554767	4.71%	0.972%
6	8.374	654	666	677	rVV	132929	375296	1.14%	0.235%
7	8.745	720	737	751	rBV2	2319957	7603859	23.05%	4.755%
8	9.075	787	800	823	rVB	594143	1626876	4.93%	1.017%
9	9.378	848	858	871	rVB	391048	967915	2.93%	0.605%
10	10.001	966	977	991	rVB	953976	2467125	7.48%	1.543%
11	10.210	1002	1017	1039	rBV	671244	1920828	5.82%	1.201%
12	10.764	1113	1123	1143	rVB	1297233	3451657	10.46%	2.158%
13	10.952	1143	1159	1166	rBV	985242	2541086	7.70%	1.589%
14	11.031	1166	1174	1195	rVV	1118227	2840129	8.61%	1.776%
15	11.203	1195	1207	1217	rVV3	249425	680682	2.06%	0.426%
16	11.355	1217	1236	1249	rVV	4040336	11629270	35.25%	7.272%
17	11.470	1249	1258	1264	rVV	959169	2539093	7.70%	1.588%
18	11.528	1264	1269	1286	rVB2	800916	1968430	5.97%	1.231%
19	11.862	1322	1333	1347	rBV	2173334	4977229	15.09%	3.112%
20	12.281	1404	1413	1424	rVV	488295	1326582	4.02%	0.829%
21	12.391	1424	1434	1455	rVV	1502850	3932642	11.92%	2.459%
22	12.621	1471	1478	1493	rVB	247634	642859	1.95%	0.402%
23	12.793	1496	1511	1526	rBV2	1331834	3424121	10.38%	2.141%
24	12.987	1539	1548	1566	rVB2	797925	2312096	7.01%	1.446%
25	13.165	1566	1582	1595	rBV5	96808	470203	1.43%	0.294%
26	13.343	1608	1616	1631	rVB	282901	809991	2.46%	0.506%
27	13.573	1647	1660	1676	rBV	589115	2019018	6.12%	1.262%
28	13.813	1693	1706	1719	rVB5	342923	1091445	3.31%	0.682%
29	13.934	1719	1729	1742	rBV2	137805	362290	1.10%	0.227%
30	14.075	1743	1756	1771	rVV3	384799	1038134	3.15%	0.649%
31	14.200	1771	1780	1793	rVB5	115880	348088	1.06%	0.218%
32	14.828	1887	1900	1905	rBV5	285351	864982	2.62%	0.541%
33	14.891	1905	1912	1920	rVB	537195	1285338	3.90%	0.804%
34	15.006	1929	1934	1952	rVB4	171760	533961	1.62%	0.334%
35	15.194	1958	1970	1988	rBV2	329092	872838	2.65%	0.546%
36	15.722	2054	2071	2084	rVV	2261455	5729056	17.37%	3.582%
37	15.905	2098	2106	2111	rVV2	139639	352700	1.07%	0.221%
38	15.963	2111	2117	2126	rVV3	187373	574492	1.74%	0.359%
39	16.381	2190	2197	2215	rVB3	170411	548115	1.66%	0.343%
40	16.549	2220	2229	2240	rVB3	149026	414936	1.26%	0.259%
41	16.664	2240	2251	2260	rBV5	142384	450129	1.36%	0.281%
42	16.763	2262	2270	2277	rVV5	126088	345468	1.05%	0.216%
43	17.046	2314	2324	2334	rVB	681194	1604505	4.86%	1.003%

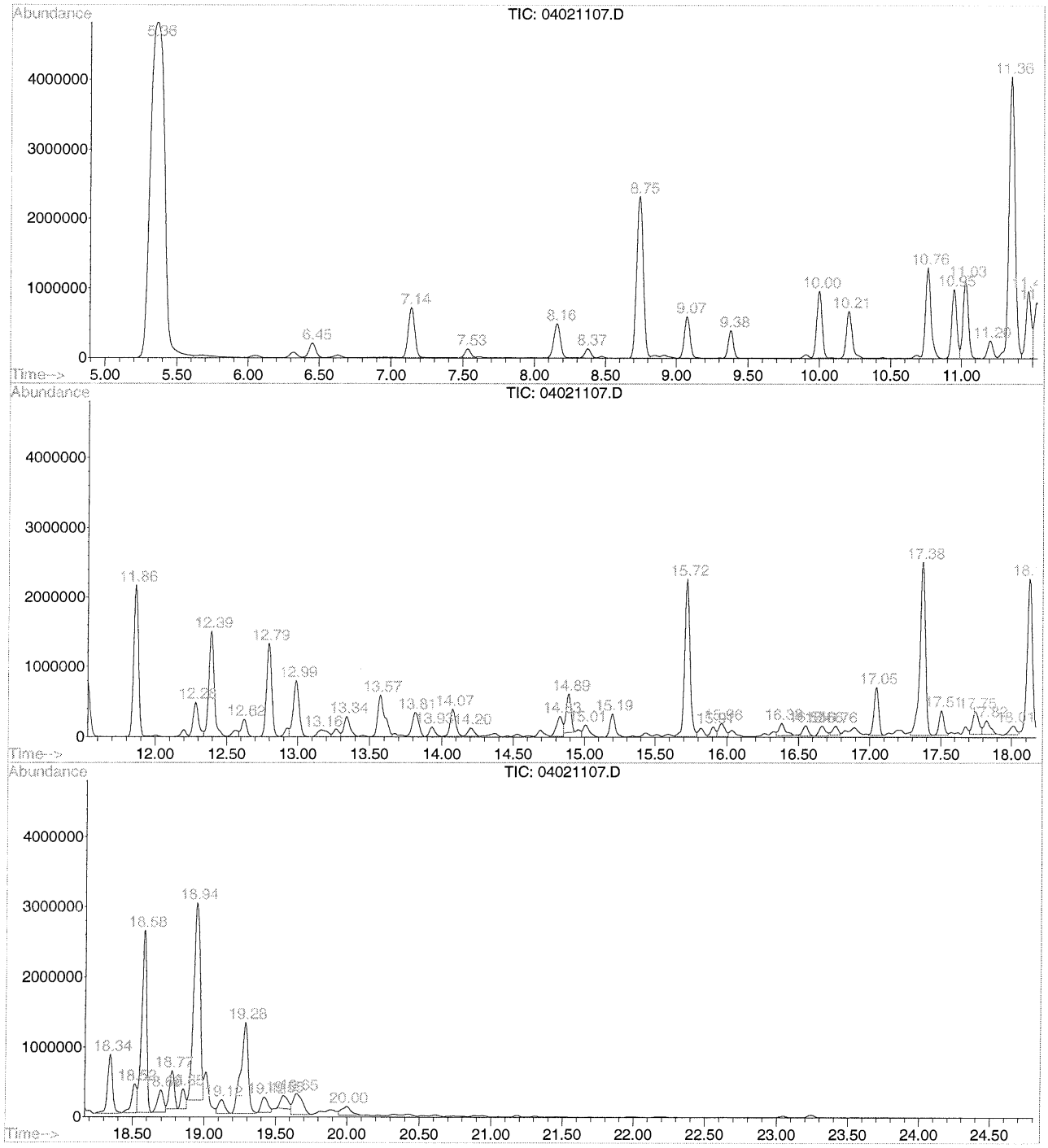
44	17.375	2370	2387	2400	rVB3	2481601	6655080	20.17%	4.161%
45	17.506	2402	2412	2421	rBV2	349209	845214	2.56%	0.528%
46	17.746	2450	2458	2467	rVV3	318945	998591	3.03%	0.624%
47	17.825	2467	2473	2489	rVB4	195409	617360	1.87%	0.386%
48	18.013	2497	2509	2516	rBV5	123945	386973	1.17%	0.242%
49	18.123	2518	2530	2542	rVV	2195648	5407815	16.39%	3.381%
50	18.343	2552	2572	2588	rBV	849695	2107182	6.39%	1.318%
51	18.515	2588	2605	2608	rBV	416070	1089677	3.30%	0.681%
52	18.578	2608	2617	2627	rVB	2598014	6459064	19.58%	4.039%
53	18.693	2628	2639	2646	rBV2	321784	943987	2.86%	0.590%
54	18.771	2646	2654	2662	rVB2	548571	1320370	4.00%	0.826%
55	18.850	2662	2669	2674	rBV	291767	636245	1.93%	0.398%
56	18.939	2674	2686	2696	rBV	2809604	8961414	27.16%	5.603%
57	19.122	2714	2721	2734	rVB4	197972	615767	1.87%	0.385%
58	19.284	2734	2752	2767	rBV3	1306479	4695396	14.23%	2.936%
59	19.420	2769	2778	2788	rBV2	223706	745247	2.26%	0.466%
60	19.551	2795	2803	2814	rBV6	180708	704290	2.13%	0.440%
61	19.650	2814	2822	2842	rVB5	301131	1394228	4.23%	0.872%
62	19.995	2878	2888	2911	rVB5	127069	588834	1.78%	0.368%

Sum of corrected areas: 159929432

04021107.D 031611V1.M Thu Apr 14 12:16:42 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040211\04021107.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 2:52 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-015B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 4
Quant File :031611V1.RES (RTE Integrator)



04021107.D 031611V1.M Thu Apr 14 12:16:42 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	119.47 ppbv	32991000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	4
3	Acetaldehyde $$ Acetic aldehyde $$	44	C2H4O	000075-07-0	3
4	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.14	8.09 ppbv	2234220	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	87
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Cyclobutane $$ Tetramethylene $$ UN	56	C4H8	000287-23-0	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 3 Butane, 2,2-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.16	5.63 ppbv	1554770	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	78
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	78
3	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64
4	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
5	Heptane, 3-ethyl-5-methyl- $$ 3-Eth	142	C10H22	052896-90-9	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	27.54 ppbv	7603860	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80

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Peak Number 5 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.07	5.89 ppbv	1626880	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	39
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	39

****

Peak Number 6 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	8.93 ppbv	2467130	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	6.96 ppbv	1920830	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	87
5	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80

****

Peak Number 8 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	9.20 ppbv	2541090	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 9 Pentane, 2,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	29.21 ppbv	11629300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	74
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.33 ppbv	1326580	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl- $$ 1	112	C8H16	004516-69-2	64
2	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	59
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
4	(1S,2S)-(+)-1,2-Diaminocyclohexane	114	C6H14N2	021436-03-3	43
5	2-Heptene, 5-methyl-	112	C8H16	022487-87-2	43

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	9.88 ppbv	3932640	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	59

****

Peak Number 12 1-Heptene, 4-methyl- $$ 4-Meth Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	8.60 ppbv	3424120	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	64
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
3	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	53
4	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	49

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	5.81 ppbv	2312100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	90
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	59
3	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	56
4	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	50
5	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	50

****

Peak Number 14 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	5.07 ppbv	2019020	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	94
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	93
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	86

****

Peak Number 15 Octane, 2,5,6-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	3.50 ppbv	1604510	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5,6-trimethyl-	156	C11H24	062016-14-2	64
2	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	64
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
5	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	59

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Dodecane, 2,2,11,11-tetramethy Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	11.80 ppbv	5407820	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	83
2	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	72
3	Decane, 2,2,9-trimethyl-	184	C13H28	062238-00-0	72
4	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	72
5	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	72

****

Peak Number 17 Tetradecane, 2,2-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	4.60 ppbv	2107180	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
3	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
5	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	72

****

Peak Number 18 Undecane, 5,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	14.09 ppbv	6459060	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	59
2	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	59
3	Undecane, 3,4-dimethyl-	184	C13H28	017312-78-6	56
4	Heneicosane $$ n-Heneicosane	296	C21H44	000629-94-7	56
5	1-Iodo-2-methylnonane	268	C10H21I	000000-00-0	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021107.D Vial: 4
Acq On : 2 Apr 2011 2:52 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Hexane, 2,2,5-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	19.55 ppbv	8961410	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
2	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	53
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	53
4	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	53
5	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	50

****

Peak Number 20 Undecane, 2,8-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.28	10.24 ppbv	4695400	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	64
2	Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	56
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	53
4	Undecane, 4,8-dimethyl-	184	C13H28	017301-33-6	50
5	Undecane, 4-methyl- $$ 4-Methylunde	170	C12H26	002980-69-0	50

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 2:52 pm
Data File: C:\HPCHEM\1\DATA\040211\04021107.D
Name: 1103389-015B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethylene oxide	5.36	119.5	ppbv	32991000	ISTD01	10.76	3451660	12.5
Butane, 2-methyl-	7.14	8.1	ppbv	2234220	ISTD01	10.76	3451660	12.5
Butane, 2,2-dimethyl	8.16	5.6	ppbv	1554770	ISTD01	10.76	3451660	12.5
Pentane, 2-methyl-	8.75	27.5	ppbv	7603860	ISTD01	10.76	3451660	12.5
Pentane, 3-methyl-	9.07	5.9	ppbv	1626880	ISTD01	10.76	3451660	12.5
Pentane, 2,4-dimethy	10.00	8.9	ppbv	2467130	ISTD01	10.76	3451660	12.5
Cyclopentane, methyl	10.21	7.0	ppbv	1920830	ISTD01	10.76	3451660	12.5
Pentane, 2,3-dimethy	10.95	9.2	ppbv	2541090	ISTD01	10.76	3451660	12.5
Pentane, 2,2,4-trime	11.36	29.2	ppbv	11629300	ISTD02	11.86	4977230	12.5
Cyclopentane, 1,1,3-	12.28	3.3	ppbv	1326580	ISTD02	11.86	4977230	12.5
Cyclohexane, methyl-	12.39	9.9	ppbv	3932640	ISTD02	11.86	4977230	12.5
1-Heptene, 4-methyl-	12.79	8.6	ppbv	3424120	ISTD02	11.86	4977230	12.5
Pentane, 2,3,3-trime	12.99	5.8	ppbv	2312100	ISTD02	11.86	4977230	12.5
Cyclohexane, 1,3-dim	13.57	5.1	ppbv	2019020	ISTD02	11.86	4977230	12.5
Octane, 2,5,6-trimet	17.05	3.5	ppbv	1604510	ISTD03	15.72	5729060	12.5
Dodecane, 2,2,11,11-	18.12	11.8	ppbv	5407820	ISTD03	15.72	5729060	12.5
Tetradecane, 2,2-dim	18.34	4.6	ppbv	2107180	ISTD03	15.72	5729060	12.5
Undecane, 5,7-dimeth	18.58	14.1	ppbv	6459060	ISTD03	15.72	5729060	12.5
Hexane, 2,2,5-trimet	18.94	19.6	ppbv	8961410	ISTD03	15.72	5729060	12.5
Undecane, 2,8-dimeth	19.28	10.2	ppbv	4695400	ISTD03	15.72	5729060	12.5

04021107.D 031611V1.M Thu Apr 14 12:16:43 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021108.D Vial: 4
Acq On : 2 Apr 2011 3:33 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:36 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

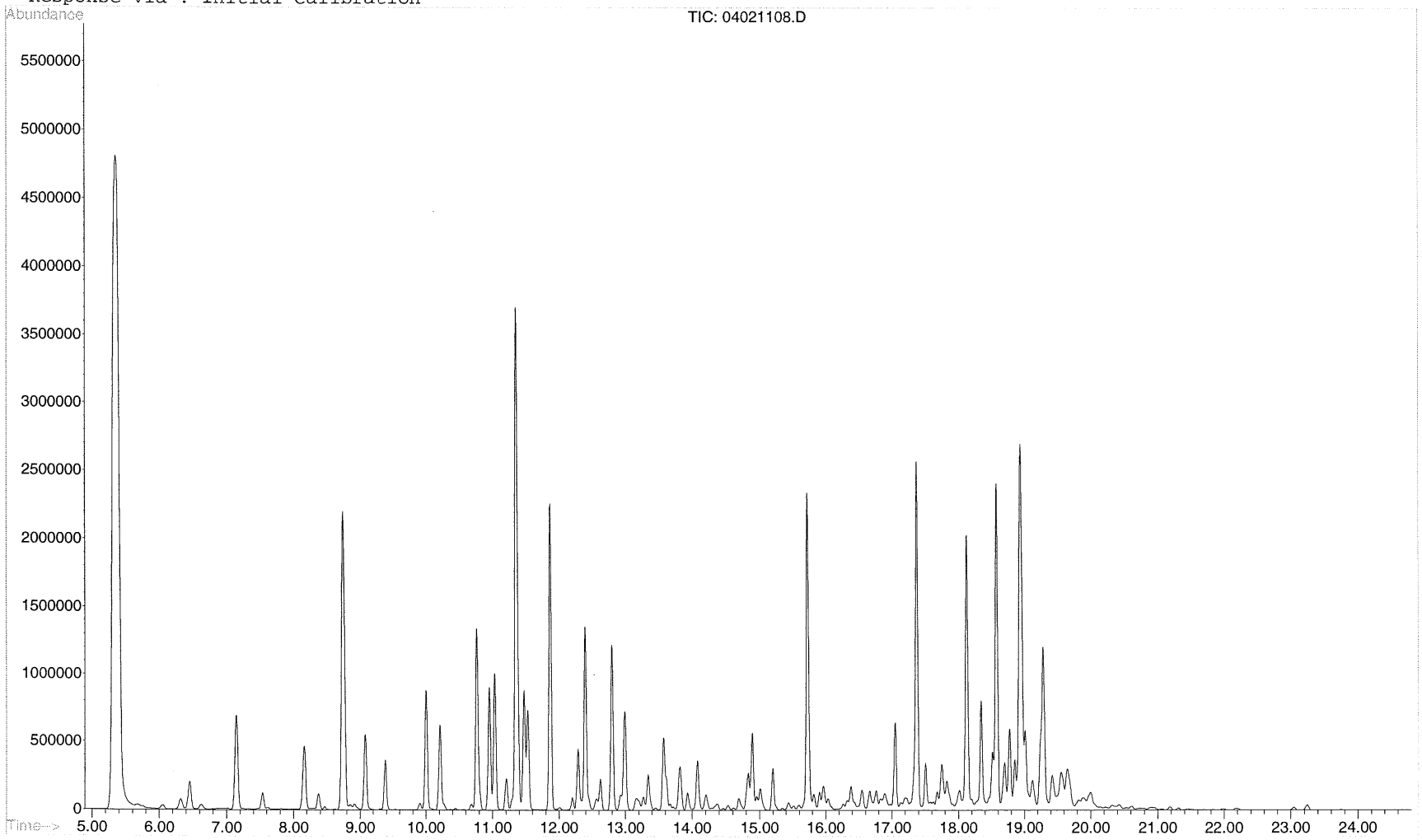
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	597656	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2299288	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1703630	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1132426	13.26	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 106.08%				
Target Compounds							Qvalue
14) Acetone	8.38	43	205288	2.79	ppbv	#	91
16) 2-Propanol	8.47	45	32430	0.61	ppbv	#	16
20) n-Hexane	9.38	57	226682	2.60	ppbv		94
29) Cyclohexane	11.03	56	474144	5.37	ppbv	#	79
31) Benzene	11.47	78	751771	5.09	ppbv		96
34) Heptane	11.52	43	111046	1.00	ppbv	#	76
41) Toluene	13.81	91	185419	1.07	ppbv		97
51) m,p-Xylene	15.96	91	95984	0.63	ppbv		92
52) o-Xylene	16.55	91	85562	0.57	ppbv	#	88

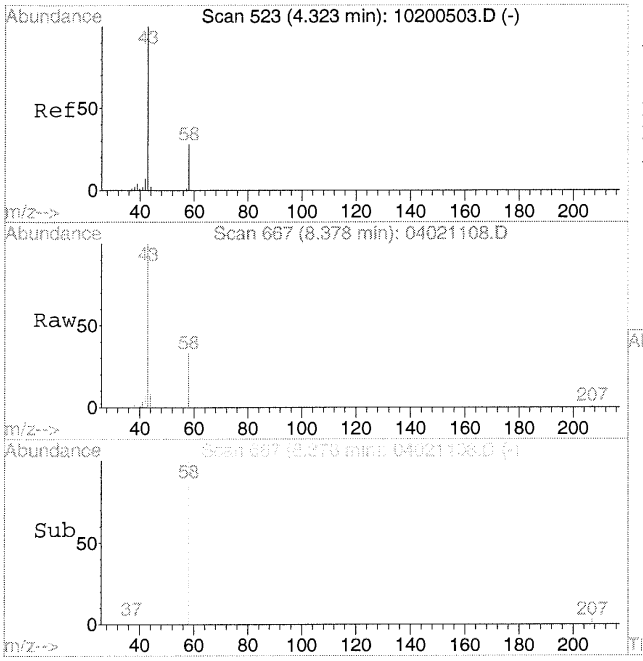
(#) = qualifier out of range (m) = manual integration
04021108.D 031611V1.M Thu Apr 14 12:16:49 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021108.D Vial: 4
Acq On : 2 Apr 2011 3:33 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-015BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:36 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

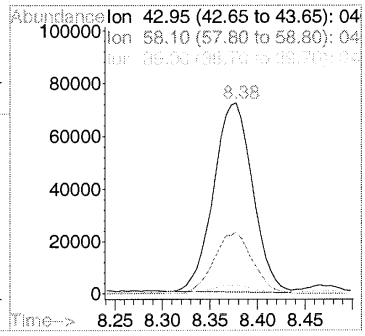


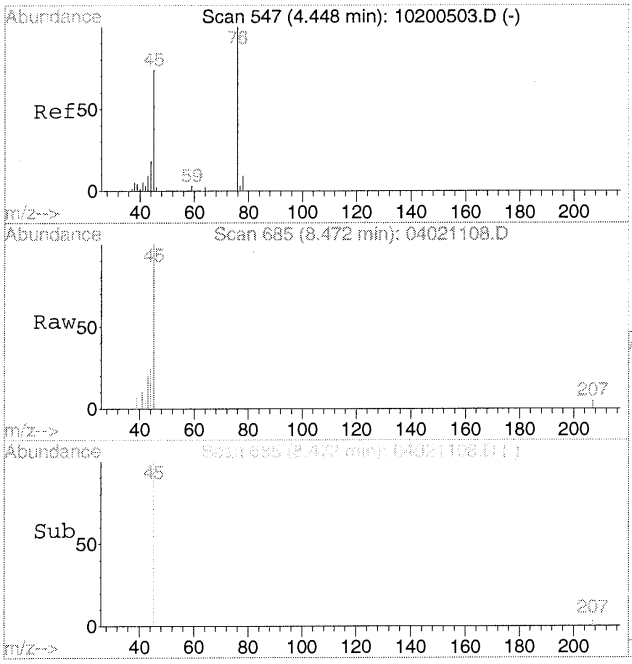


#14
Acetone
Concen: 2.79 ppbv
RT: 8.38 min Scan# 667
Delta R.T. 0.02 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 43 Resp: 205288

Ion	Ratio	Lower	Upper
43	100		
58	32.0	22.0	33.0
39	4.8	6.5	9.7#

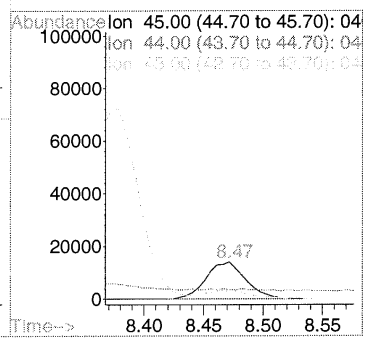


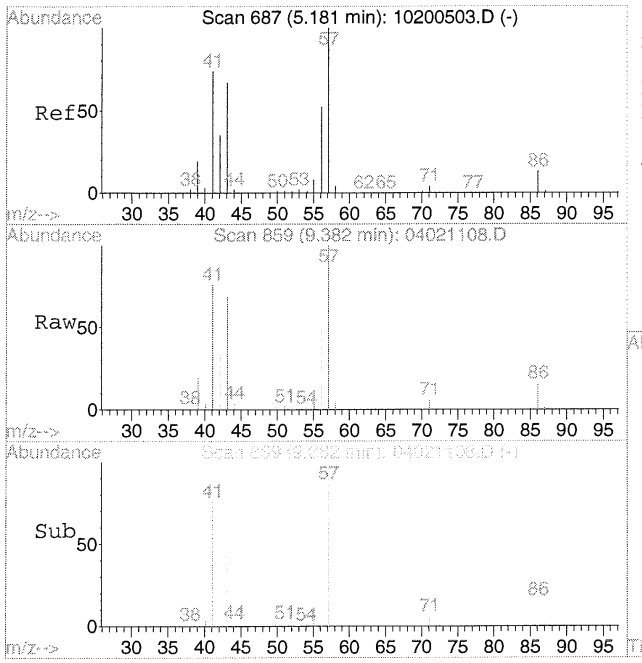


#16
2-Propanol
Concen: 0.61 ppbv
RT: 8.47 min Scan# 685
Delta R.T. 0.07 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 45 Resp: 32430

Ion	Ratio	Lower	Upper
45	100		
44	0.2	5.2	7.8#
43	26.1	101.1	151.7#

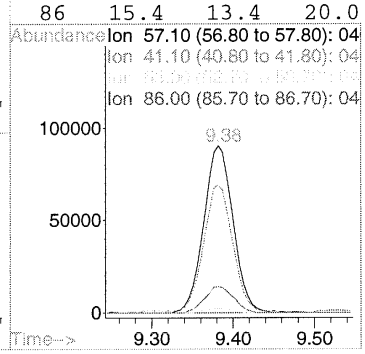


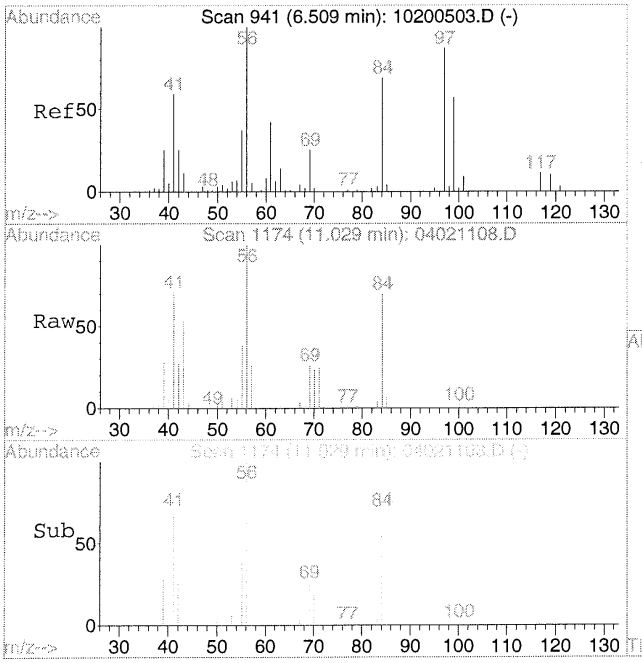


#20
n-Hexane
Concen: 2.60 ppbv
RT: 9.38 min Scan# 859
Delta R.T. -0.01 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 57 Resp: 226682

Ion	Ratio	Lower	Upper
57	100		
41	77.0	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

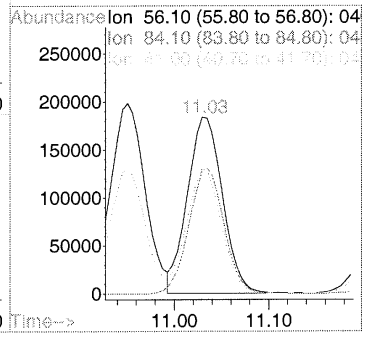


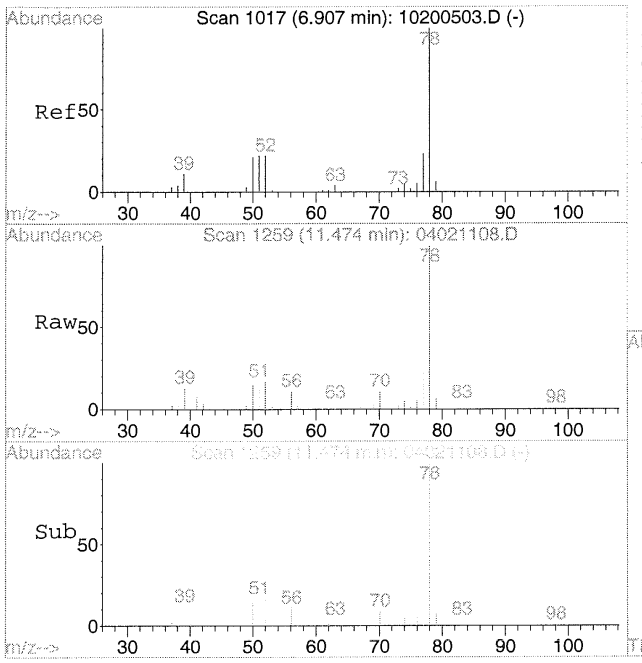


#29
Cyclohexane
Concen: 5.37 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.01 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 56 Resp: 474144

Ion	Ratio	Lower	Upper
56	100		
84	71.5	72.4	108.6#
41	70.3	43.8	65.8#

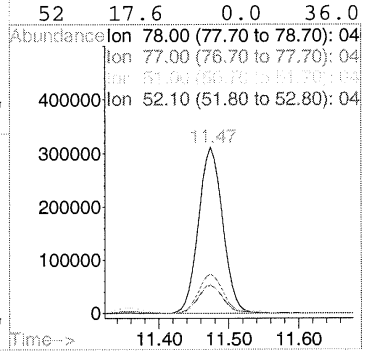


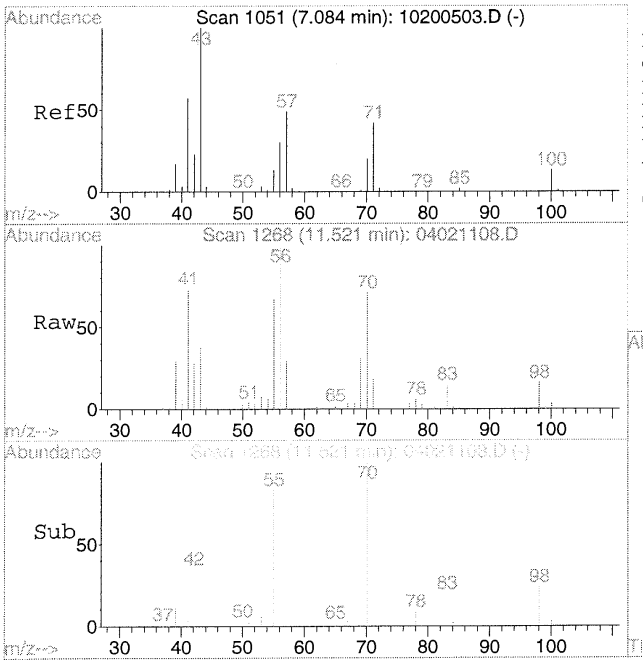


#31
Benzene
Concen: 5.09 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 78 Resp: 751771

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.7	43.7
51	19.1	0.0	36.1
52	17.6	0.0	36.0

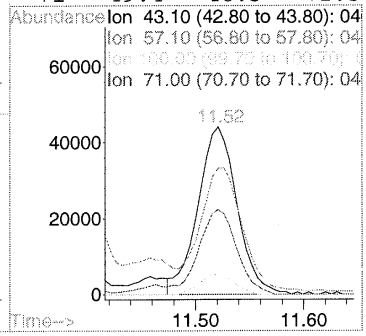


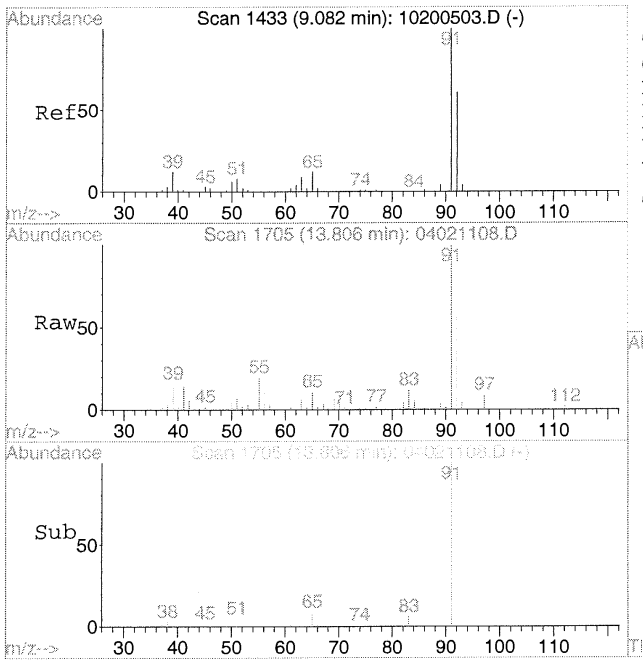


#34
Heptane
Concen: 1.00 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 43 Resp: 111046

Ion	Ratio	Lower	Upper
43	100		
57	78.0	42.2	63.4#
100	10.7	17.3	25.9#
71	49.4	48.3	72.5

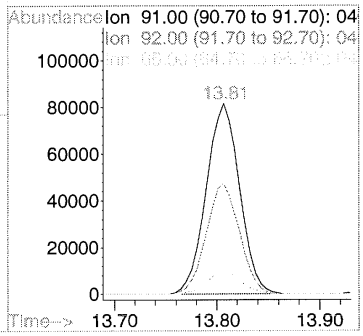


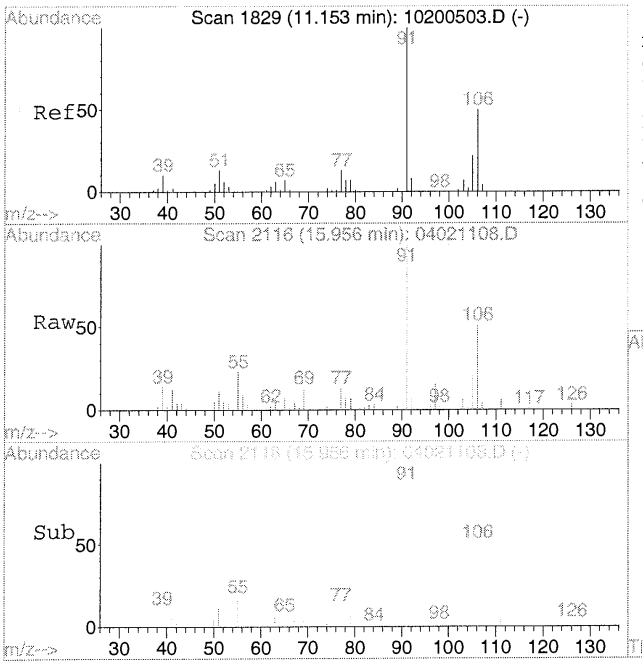


#41
Toluene
Concen: 1.07 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 91 Resp: 185419

Ion	Ratio	Lower	Upper
91	100		
92	57.8	40.5	80.5
65	12.1	0.0	31.2

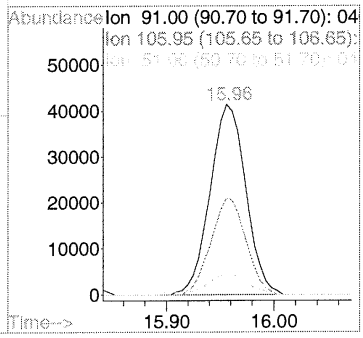


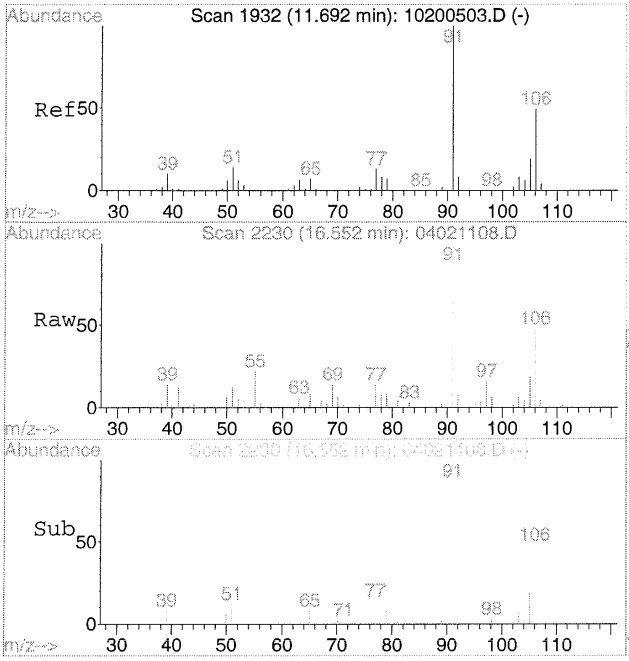


#51
m,p-Xylene
Concen: 0.63 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 91 Resp: 95984

Ion	Ratio	Lower	Upper
91	100		
106	49.7	35.6	75.6
51	13.0	0.0	29.6

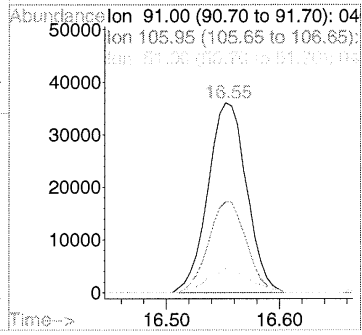




#52
o-Xylene
Concen: 0.57 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021108.D
Acq: 2 Apr 2011 3:33 pm

Tgt Ion: 91 Resp: 85562

Ion	Ratio	Lower	Upper
91	100		
106	46.6	41.0	61.6
51	13.8	19.7	29.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021109.D Vial: 6
Acq On : 2 Apr 2011 4:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 17:39 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	552312	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2109827	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1563857	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	946533	12.08	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.64%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	44402	0.80	ppbv		90
20) n-Hexane	9.40	57	2531299	31.38	ppbv		99
26) Tetrahydrofuran	10.81	42	243210	5.28	ppbv	#	39
29) Cyclohexane	11.04	56	2093243	25.63	ppbv	#	84
31) Benzene	11.48	78	374126	2.74	ppbv		94
34) Heptane*	11.52	43	964127	9.46	ppbv	#	92
41) Toluene	13.81	91	362066	2.28	ppbv		98
51) m,p-Xylene	15.96	91	91542	0.65	ppbv		93

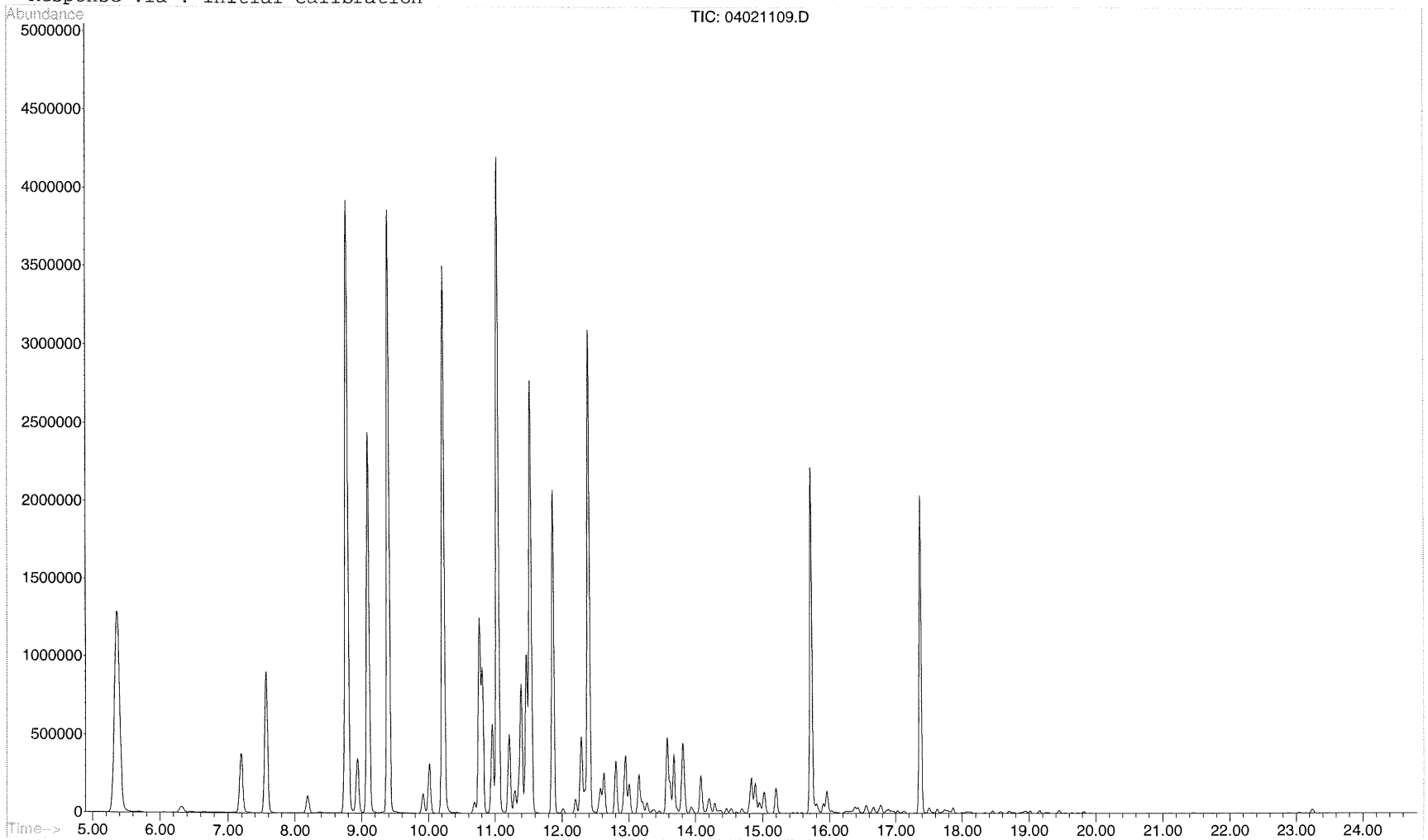
* Heptane only reported
ch
4/14/11

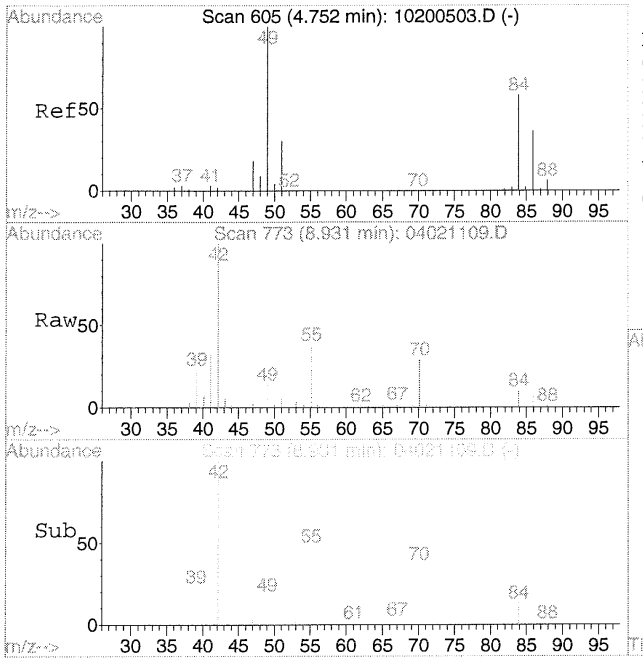
(#) = qualifier out of range (m) = manual integration
04021109.D 031611V1.M Thu Apr 14 12:17:21 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021109.D Vial: 6
Acq On : 2 Apr 2011 4:14 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 17:39 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

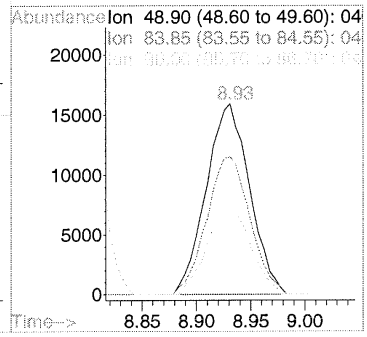


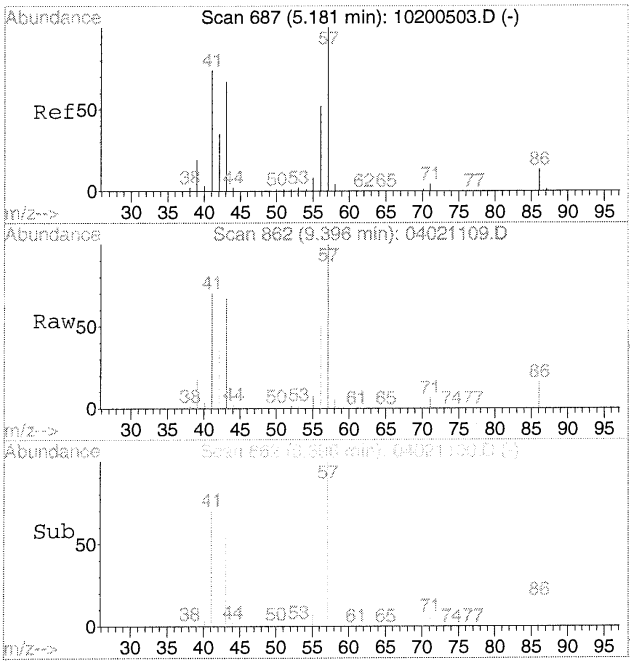


#17
Methylene chloride
Concen: 0.80 ppbv
RT: 8.93 min Scan# 773
Delta R.T. 0.01 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 49 Resp: 44402

Ion	Ratio	Lower	Upper
49	100		
84	72.3	65.4	98.2
86	46.5	42.3	63.5

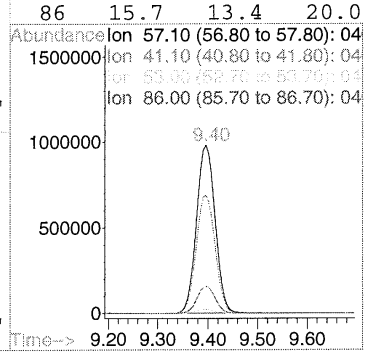


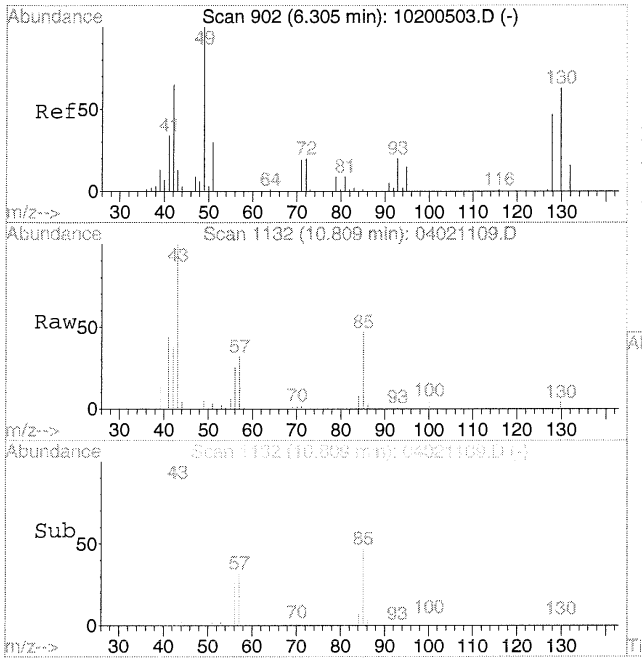


#20
n-Hexane
Concen: 31.38 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 57 Resp: 2531299

Ion	Ratio	Lower	Upper
57	100		
41	71.9	57.2	85.8
53	2.4	1.8	2.8
86	15.7	13.4	20.0

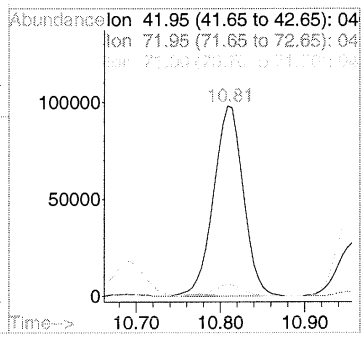


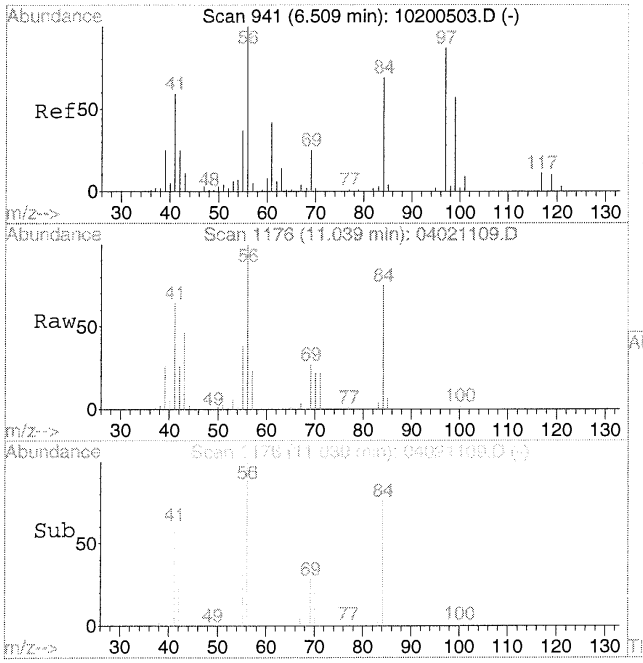


#26
Tetrahydrofuran
Concen: 5.28 ppbv
RT: 10.81 min Scan# 1132
Delta R.T. 0.05 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 42 Resp: 243210

Ion	Ratio	Lower	Upper
42	100		
72	0.7	35.0	52.6#
71	6.4	31.9	47.9#

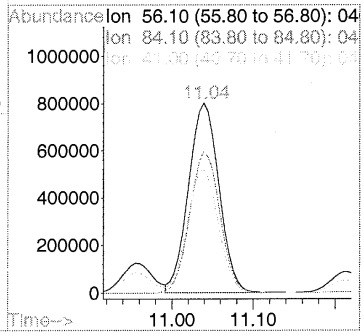


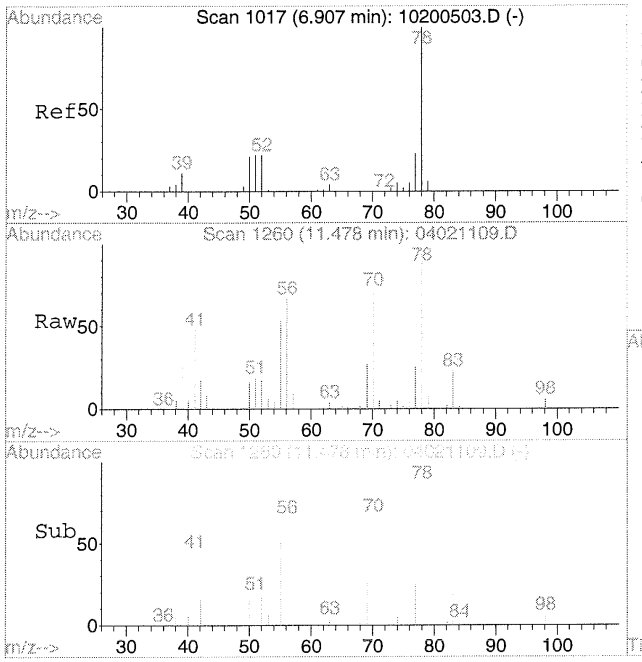


#29
Cyclohexane
Concen: 25.63 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 56 Resp: 2093243

Ion	Ratio	Lower	Upper
56	100		
84	74.5	72.4	108.6
41	66.0	43.8	65.8#

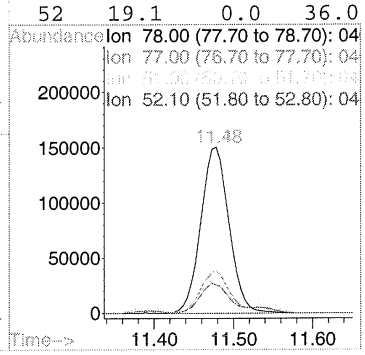


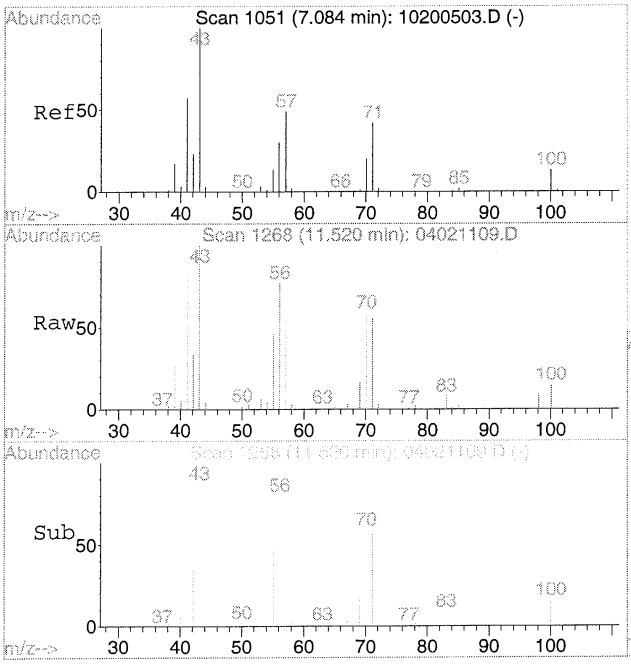


#31
Benzene
Concen: 2.74 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 78 Resp: 374126

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	21.0	0.0	36.1
52	19.1	0.0	36.0

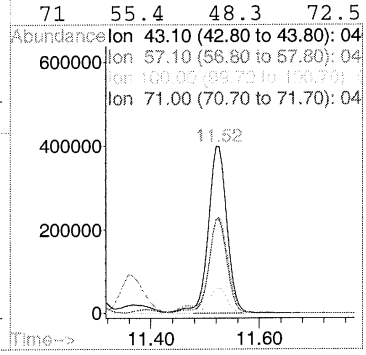


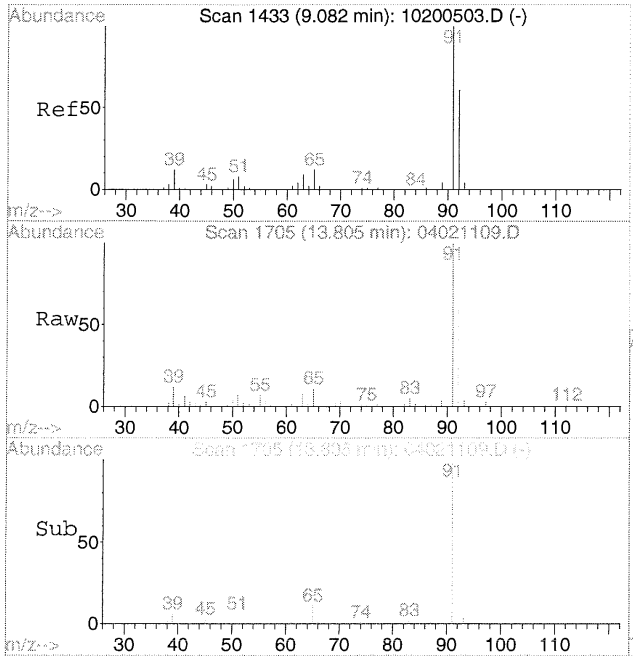


#34
Heptane
Concen: 9.46 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 43 Resp: 964127

Ion	Ratio	Lower	Upper
43	100		
57	58.0	42.2	63.4
100	14.3	17.3	25.9#
71	55.4	48.3	72.5

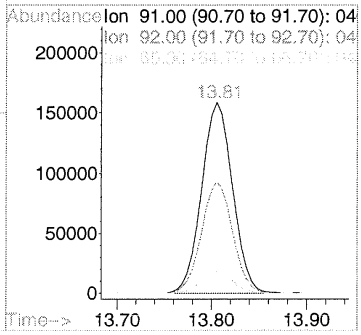


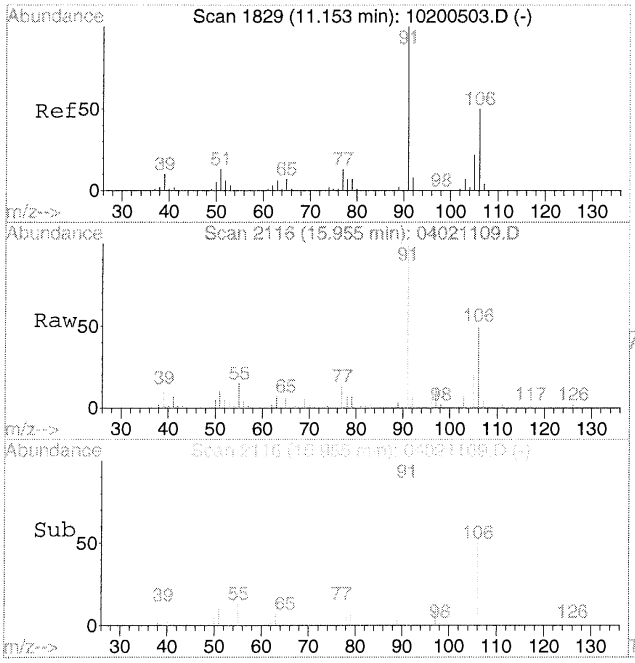


#41
Toluene
Concen: 2.28 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 91 Resp: 362066

Ion	Ratio	Lower	Upper
91	100		
92	58.7	40.5	80.5
65	11.7	0.0	31.2

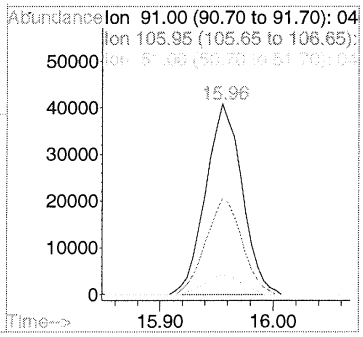




#51
m,p-Xylene
Concen: 0.65 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021109.D
Acq: 2 Apr 2011 4:14 pm

Tgt Ion: 91 Resp: 91542

Ion	Ratio	Lower	Upper
91	100		
106	50.2	35.6	75.6
51	10.7	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021110.D Vial: 7
Acq On : 2 Apr 2011 4:56 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:37 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	562347	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2108893	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1540435	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	940667	12.18	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.44%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	53952	0.95	ppbv		91
20) n-Hexane*	9.40	57	1259585	15.34	ppbv		98
29) Cyclohexane*	11.04	56	1056400	12.71	ppbv	#	82
31) Benzene	11.48	78	179367	1.29	ppbv		91
34) Heptane	11.52	43	458099	4.50	ppbv	#	91
41) Toluene	13.81	91	173175	1.09	ppbv		98

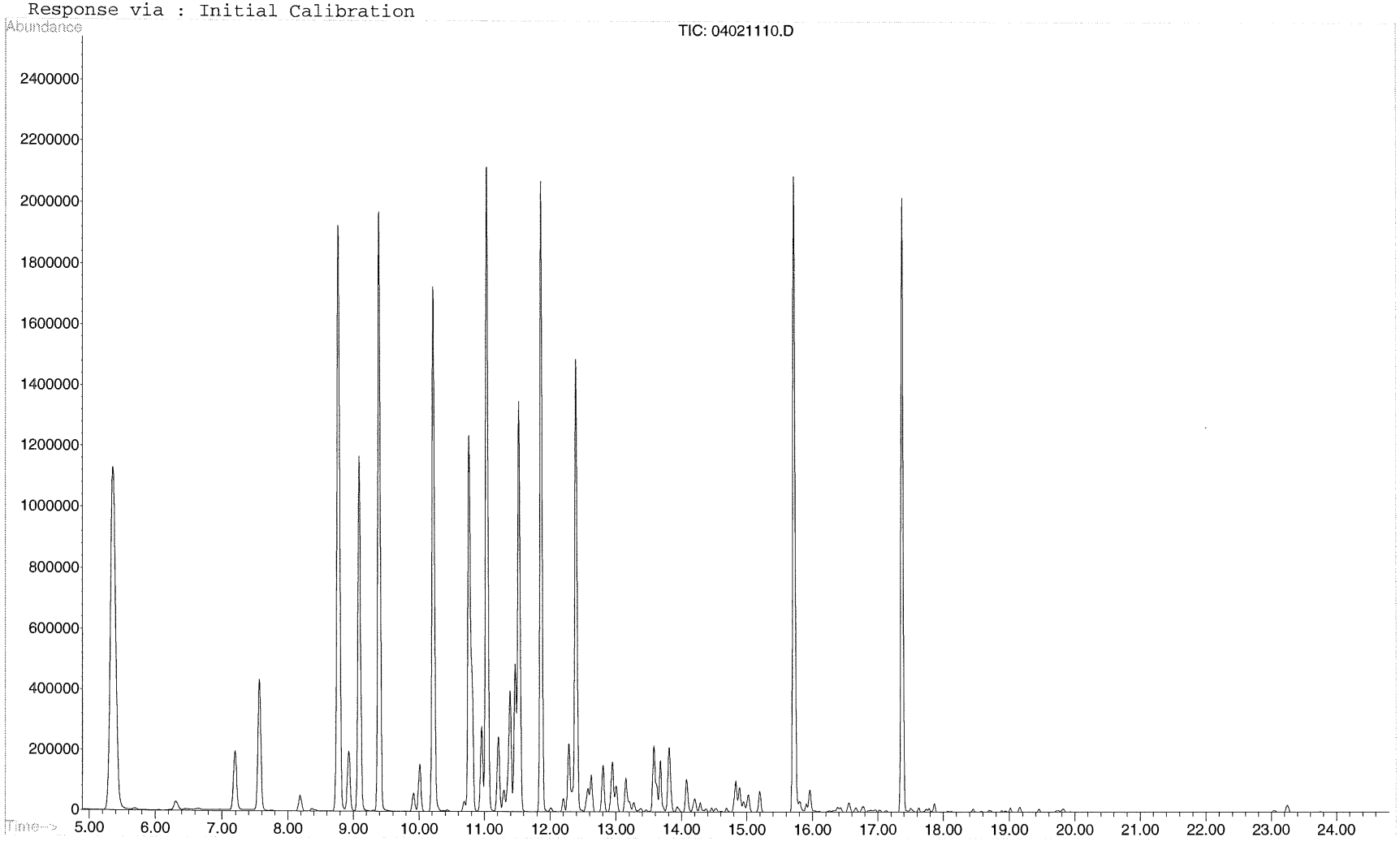
* n-hexane
* Cyclohexane > reported only
CL
4/15/11

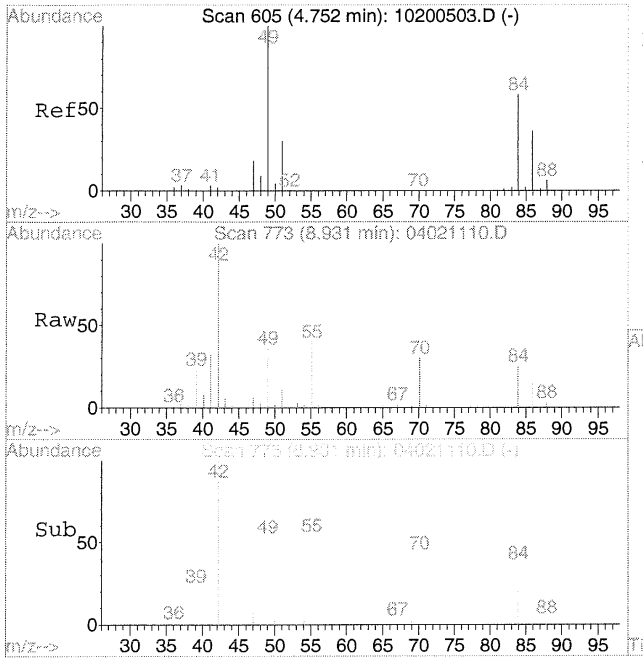
(#) = qualifier out of range (m) = manual integration
04021110.D 031611V1.M Thu Apr 14 12:17:37 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021110.D Vial: 7
Acq On : 2 Apr 2011 4:56 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:37 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

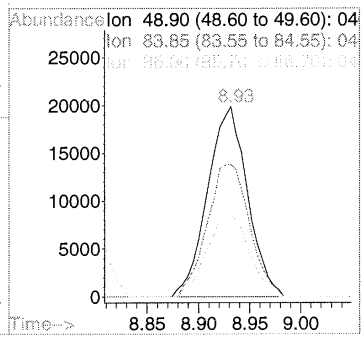


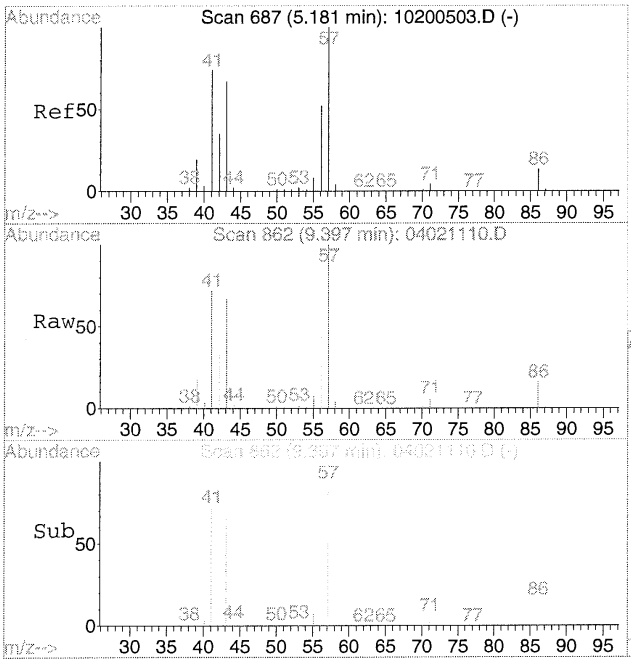


#17
Methylene chloride
Concen: 0.95 ppbv
RT: 8.93 min Scan# 773
Delta R.T. 0.01 min
Lab File: 04021110.D
Acq: 2 Apr 2011 4:56 pm

Tgt Ion: 49 Resp: 53952

Ion	Ratio	Lower	Upper
49	100		
84	73.8	65.4	98.2
86	45.8	42.3	63.5

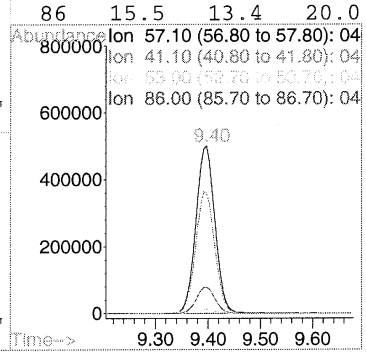


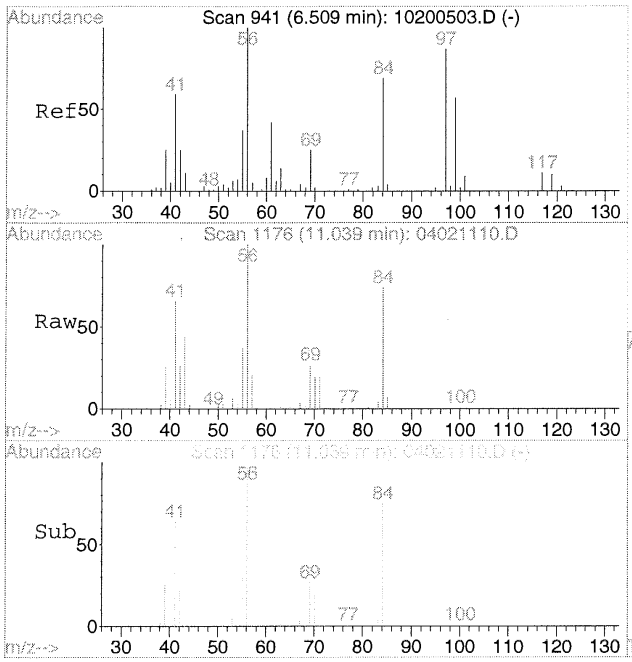


#20
n-Hexane
Concen: 15.34 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04021110.D
Acq: 2 Apr 2011 4:56 pm

Tgt Ion: 57 Resp: 1259585

Ion	Ratio	Lower	Upper
57	100		
41	73.2	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

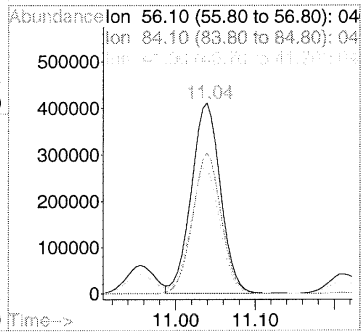


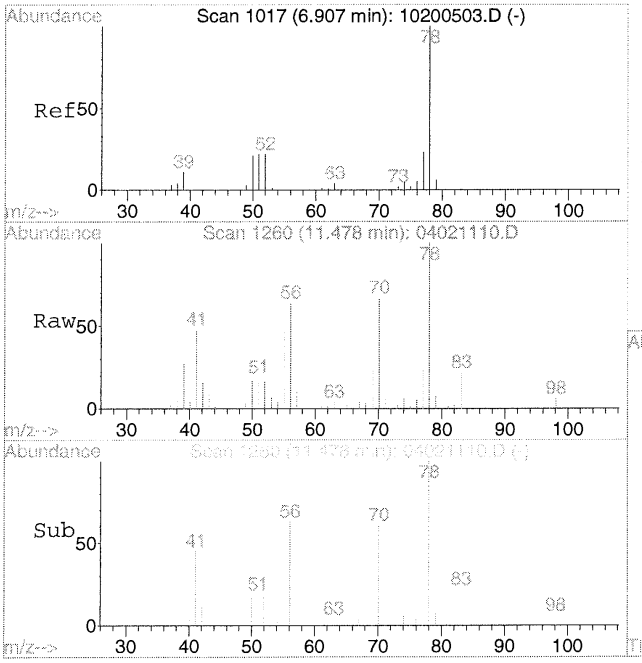


#29
Cyclohexane
Concen: 12.71 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04021110.D
Acq: 2 Apr 2011 4:56 pm

Tgt Ion: 56 Resp: 1056400

Ion	Ratio	Lower	Upper
56	100		
84	73.0	72.4	108.6
41	66.9	43.8	65.8#

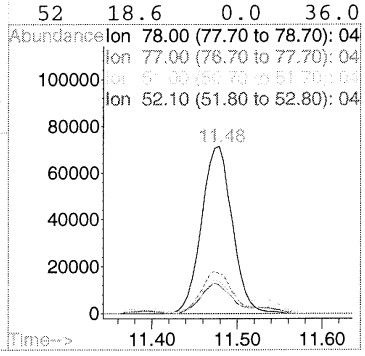


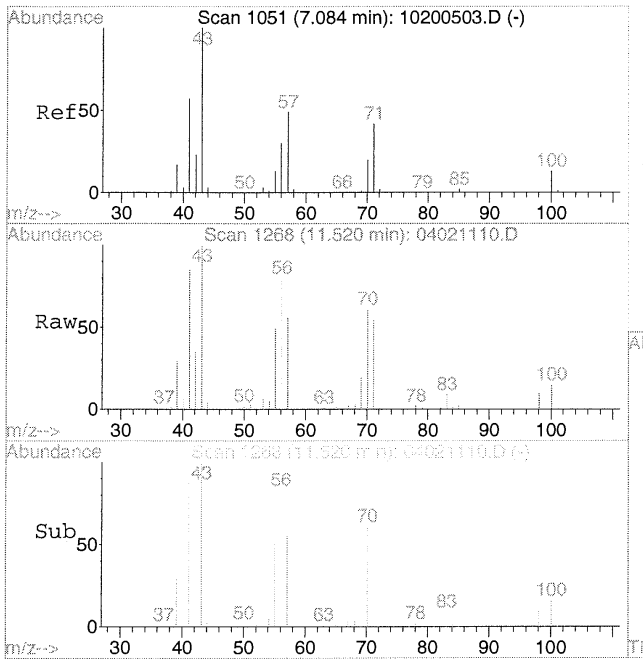


#31
Benzene
Concen: 1.29 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04021110.D
Acq: 2 Apr 2011 4:56 pm

Tgt Ion: 78 Resp: 179367

Ion	Ratio	Lower	Upper
78	100		
77	28.7	3.7	43.7
51	20.7	0.0	36.1
52	18.6	0.0	36.0

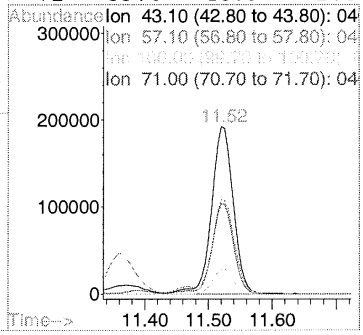


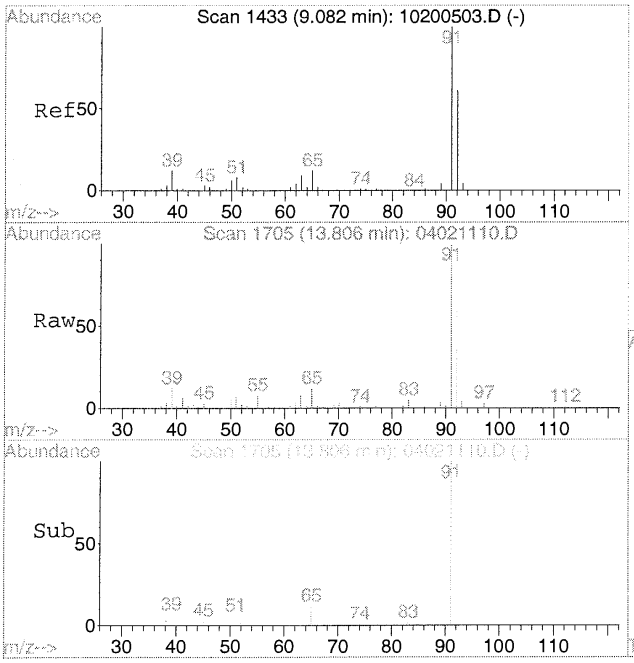


#34
Heptane
Concen: 4.50 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021110.D
Acq: 2 Apr 2011 4:56 pm

Tgt Ion: 43 Resp: 458099

Ion	Ratio	Lower	Upper
43	100		
57	56.9	42.2	63.4
100	14.0	17.3	25.9#
71	53.8	48.3	72.5

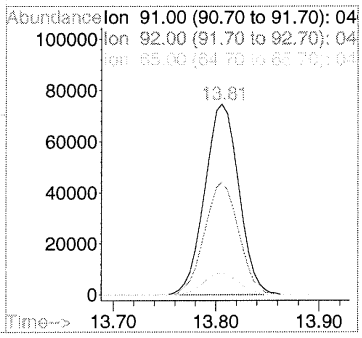




#41
Toluene
Concen: 1.09 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021110.D
Acq: 2 Apr 2011 4:56 pm

Tgt Ion: 91 Resp: 173175

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.8	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021111.D Vial: 8
Acq On : 2 Apr 2011 5:39 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 200.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:37 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	524075	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2026441	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1485170	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	957779	12.87	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 102.96%				
Target Compounds							Qvalue
11) Ethanol	7.74	45	13618	1.56	ppbv	#	82
14) Acetone	8.36	43	275209	4.26	ppbv	#	94
16) 2-Propanol	8.42	45	52023	1.12	ppbv	#	1
17) Methylene chloride	8.92	49	827914	15.69	ppbv		92
20) n-Hexane *	9.39	57	613646	8.02	ppbv		97
29) Cyclohexane *	11.03	56	665001	8.58	ppbv	#	76
31) Benzene *	11.47	78	386511	2.98	ppbv		94
34) Heptane *	11.52	43	750805	7.67	ppbv	#	92
41) Toluene *	13.81	91	1485426	9.73	ppbv		99
50) Ethylbenzene	15.80	91	114596	0.66	ppbv		95
51) m,p-Xylene	15.95	91	247316	1.85	ppbv		92
52) o-Xylene	16.55	91	94522	0.73	ppbv	#	89
59) 1,2,4-Trimethylbenzene	18.45	105	86290	0.75	ppbv		97

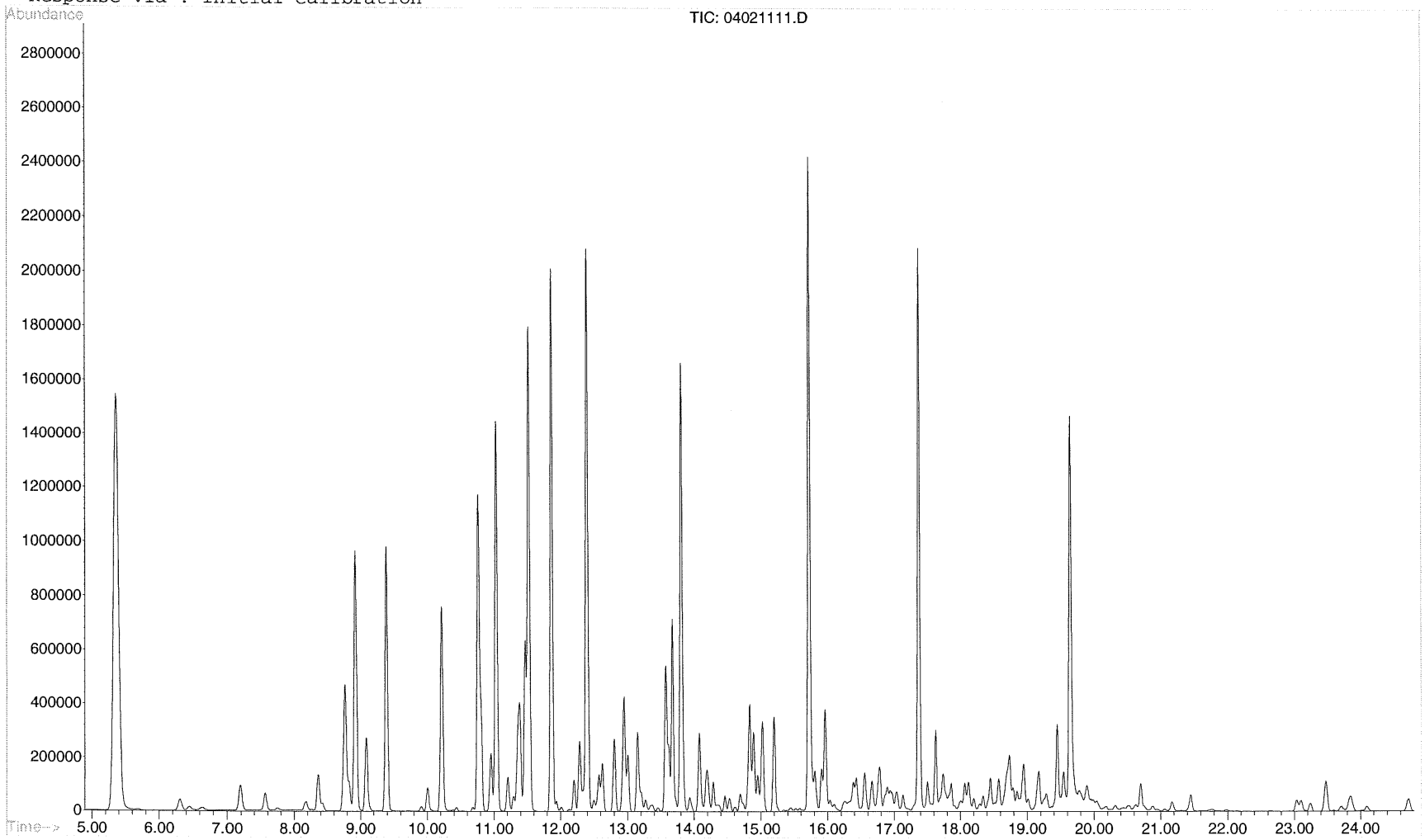
* Only reported on 4/15/11

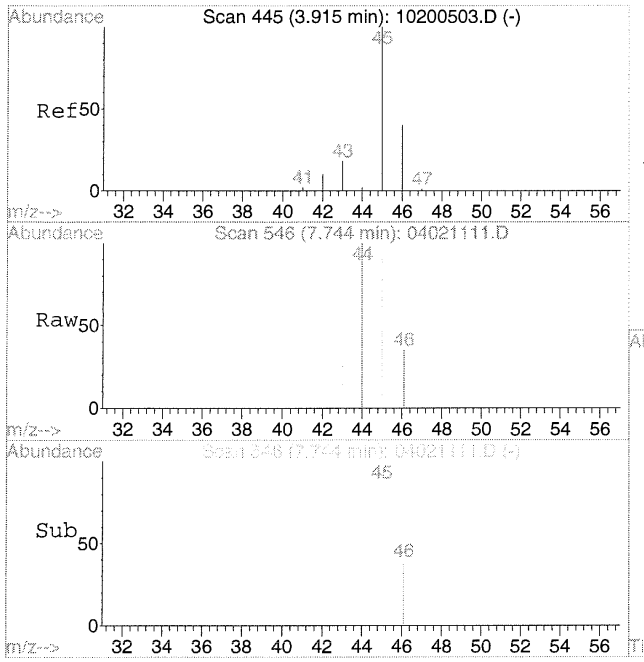
(#) = qualifier out of range (m) = manual integration
04021111.D 031611V1.M Thu Apr 14 12:17:46 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021111.D Vial: 8
Acq On : 2 Apr 2011 5:39 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 200.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:37 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

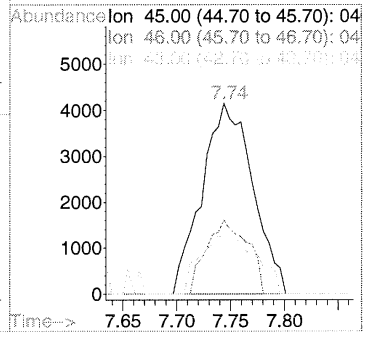


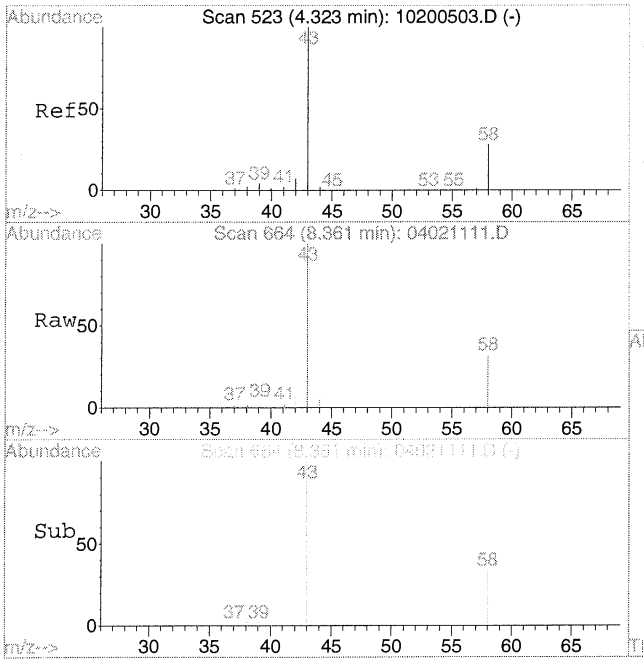


#11
Ethanol
Concen: 1.56 ppbv
RT: 7.74 min Scan# 546
Delta R.T. 0.01 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 45 Resp: 13618

Ion	Ratio	Lower	Upper
45	100		
46	31.4	30.2	45.4
43	34.1	15.8	23.6#

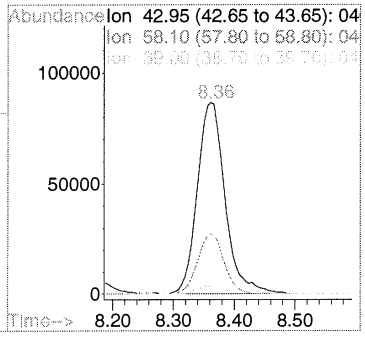


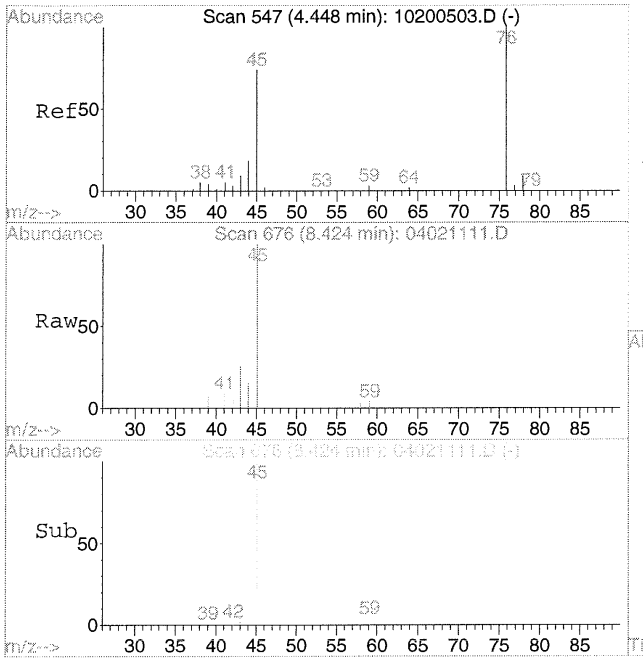


#14
Acetone
Concen: 4.26 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 43 Resp: 275209

Ion	Ratio	Lower	Upper
43	100		
58	29.8	22.0	33.0
39	4.1	6.5	9.7#

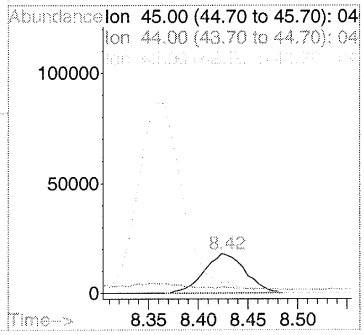


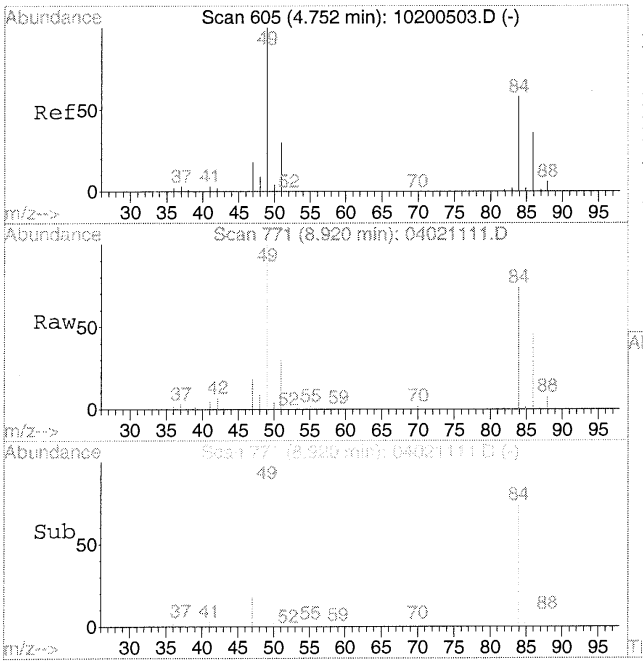


#16
2-Propanol
Concen: 1.12 ppbv
RT: 8.42 min Scan# 676
Delta R.T. 0.02 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 45 Resp: 52023

Ion	Ratio	Lower	Upper
45	100		
44	3.7	5.2	7.8#
43	0.0	101.1	151.7#

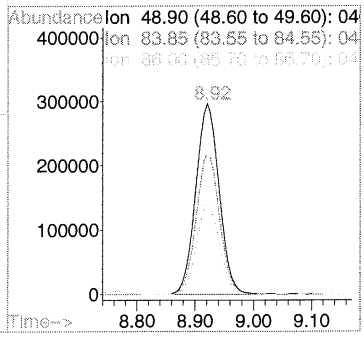


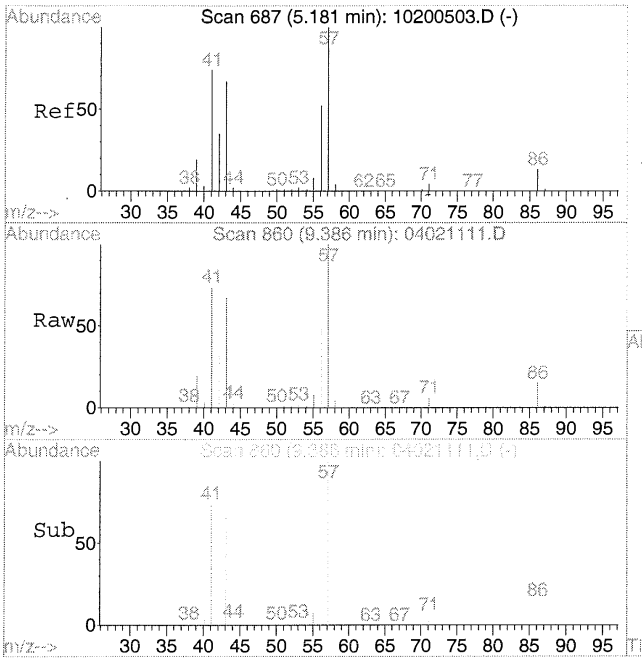


#17
Methylene chloride
Concen: 15.69 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 49 Resp: 827914

Ion	Ratio	Lower	Upper
49	100		
84	74.1	65.4	98.2
86	47.6	42.3	63.5

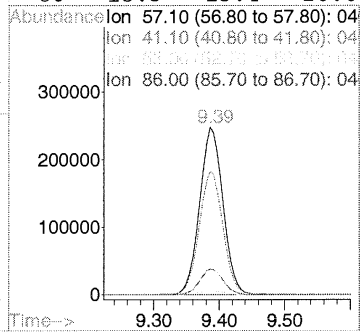


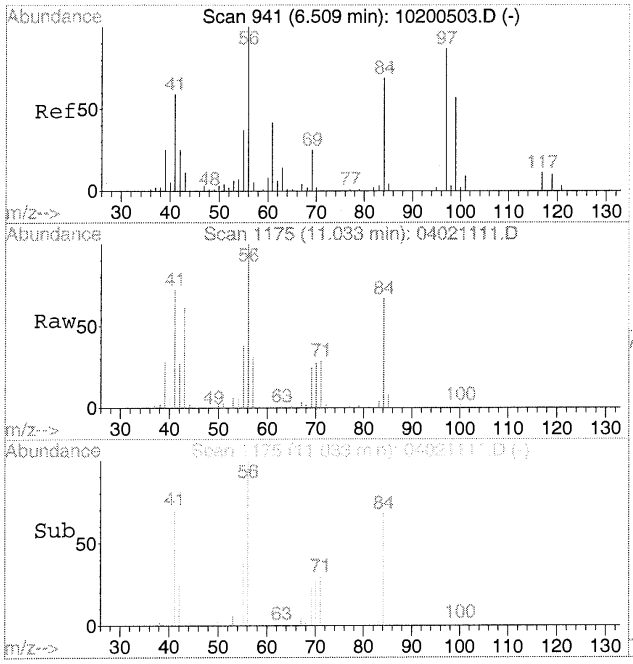


#20
n-Hexane
Concen: 8.02 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 57 Resp: 613646

Ion	Ratio	Lower	Upper
57	100		
41	74.4	57.2	85.8
53	2.4	1.8	2.8
86	15.3	13.4	20.0

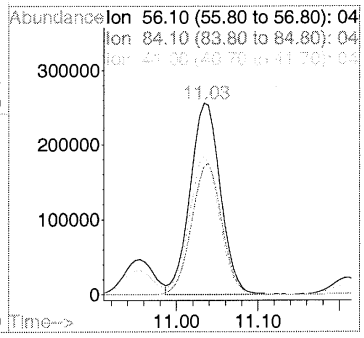


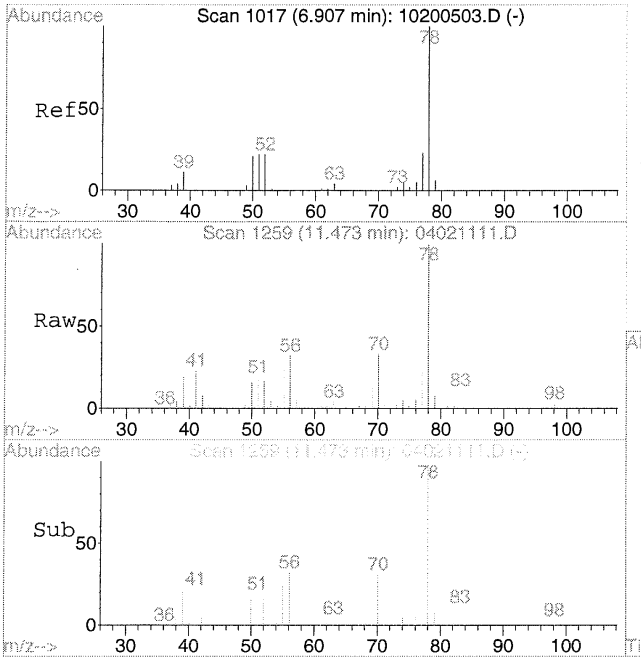


#29
Cyclohexane
Concen: 8.58 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 56 Resp: 665001

Ion	Ratio	Lower	Upper
56	100		
84	67.8	72.4	108.6#
41	72.3	43.8	65.8#

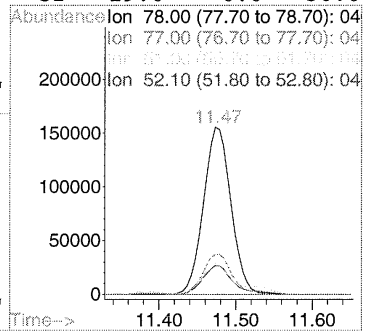


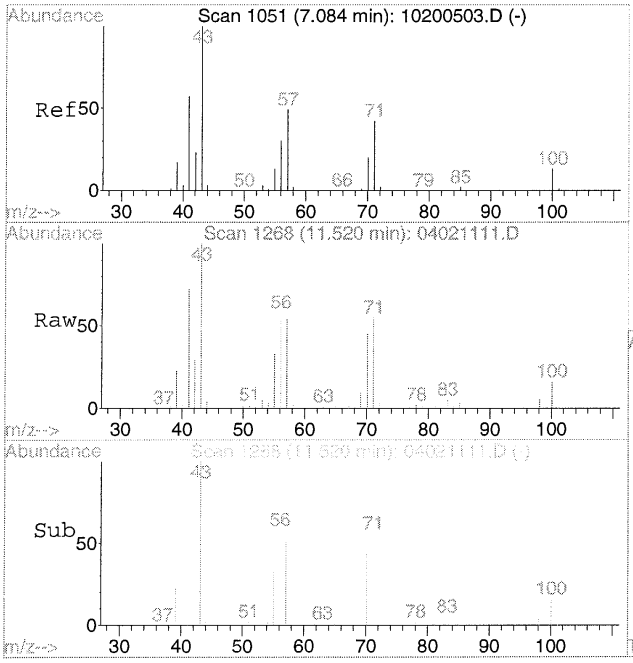


#31
Benzene
Concen: 2.98 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 78 Resp: 386511

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.7	43.7
51	18.9	0.0	36.1
52	19.0	0.0	36.0

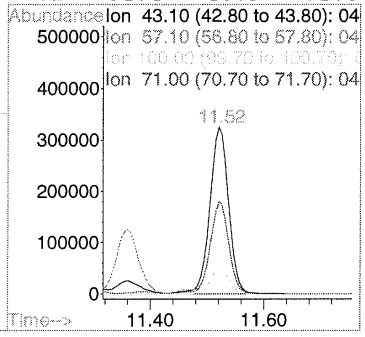


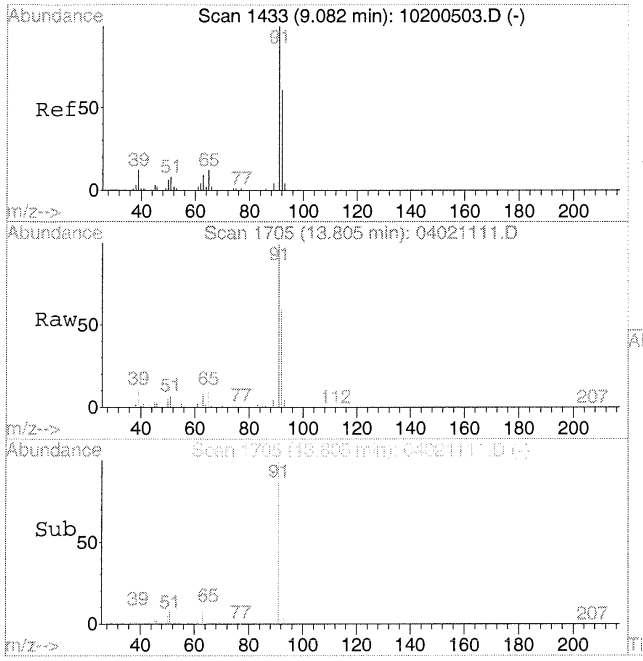


#34
Heptane
Concen: 7.67 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 43 Resp: 750805

Ion	Ratio	Lower	Upper
43	100		
57	56.3	42.2	63.4
100	14.8	17.3	25.9#
71	54.4	48.3	72.5

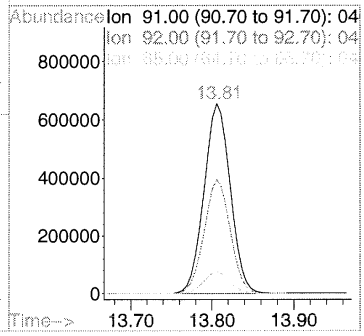


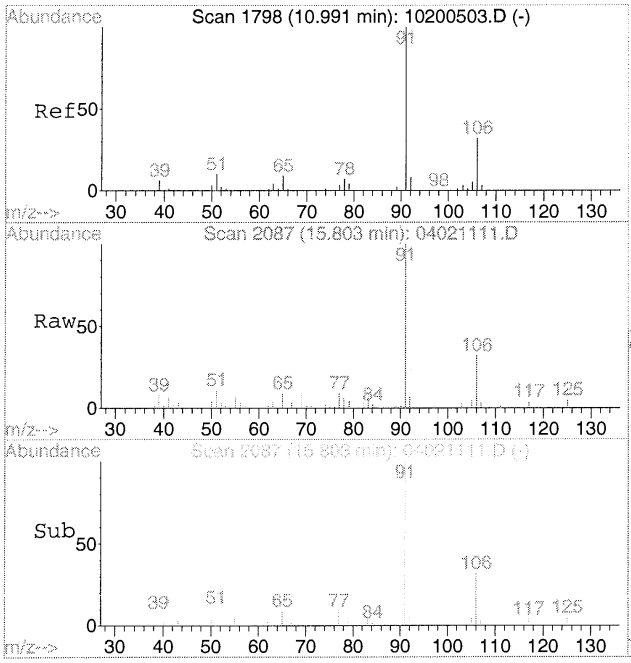


#41
Toluene
Concen: 9.73 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 91 Resp: 1485426

Ion	Ratio	Lower	Upper
91	100		
92	59.7	40.5	80.5
65	11.6	0.0	31.2

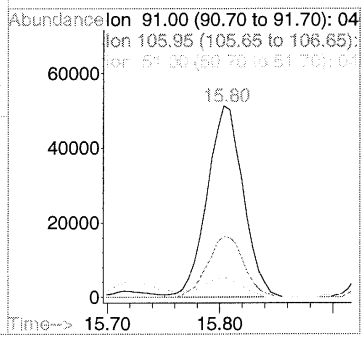


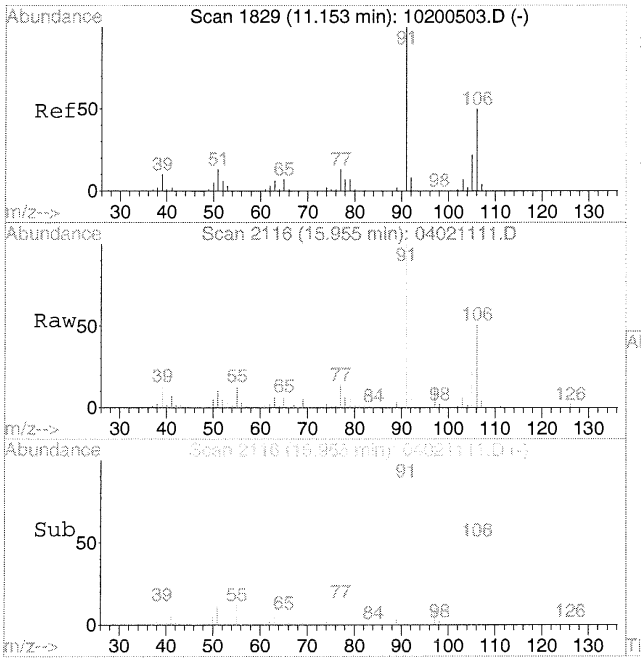


#50
Ethylbenzene
Concen: 0.66 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 91 Resp: 114596

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	11.2	0.0	33.1

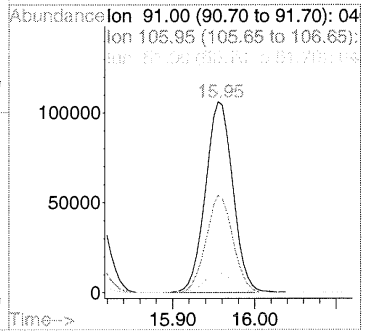


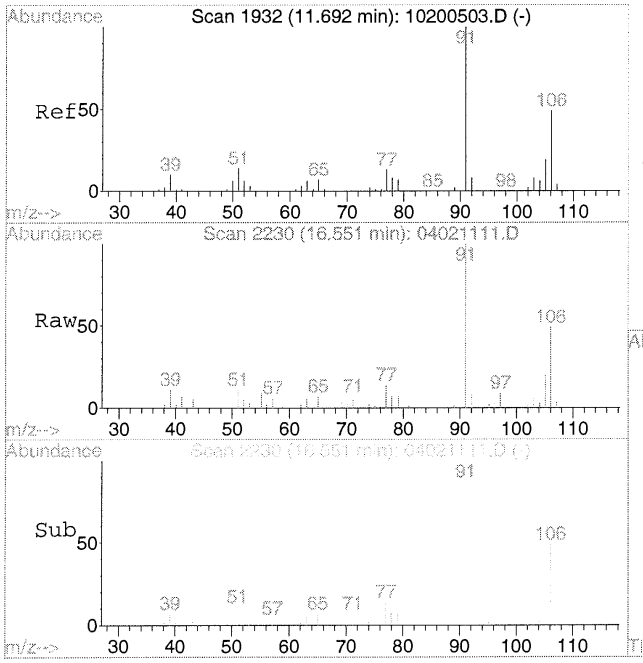


#51
m,p-Xylene
Concen: 1.85 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 91 Resp: 247316

Ion	Ratio	Lower	Upper
91	100		
106	49.7	35.6	75.6
51	11.3	0.0	29.6

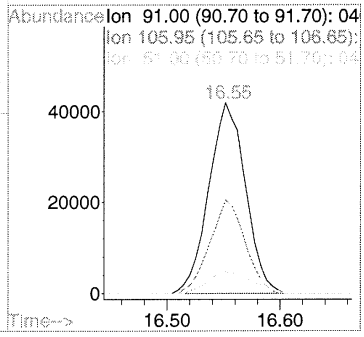


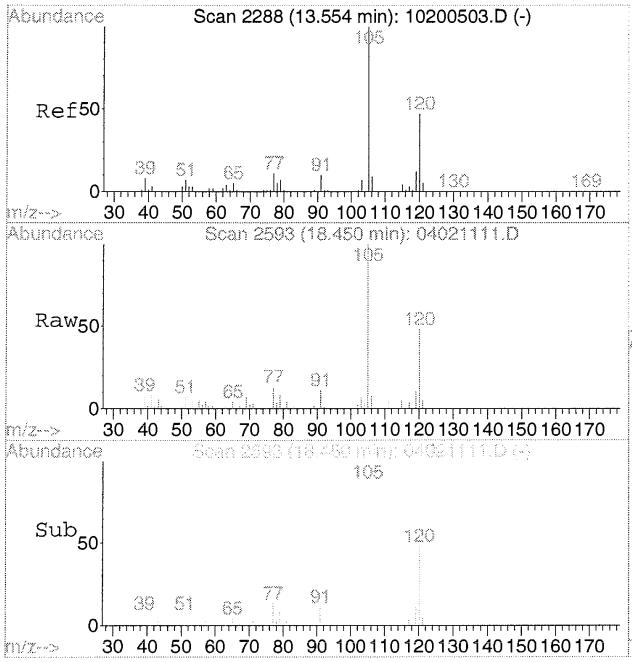


#52
o-Xylene
Concen: 0.73 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion: 91 Resp: 94522

Ion	Ratio	Lower	Upper
91	100		
106	47.1	41.0	61.6
51	14.0	19.7	29.5#

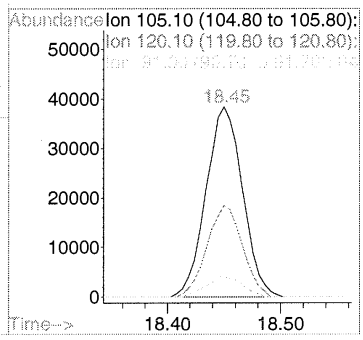




#59
1,2,4-Trimethylbenzene
Concen: 0.75 ppbv
RT: 18.45 min Scan# 2593
Delta R.T. 0.00 min
Lab File: 04021111.D
Acq: 2 Apr 2011 5:39 pm

Tgt Ion:105 Resp: 86290

Ion	Ratio	Lower	Upper
105	100		
120	46.3	38.9	58.3
91	10.8	8.2	12.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021112.D Vial: 9
Acq On : 2 Apr 2011 6:21 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:38 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	525510	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1974101	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1490650	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	941222	12.60	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.80%				
Target Compounds							Qvalue
2) Propylene	5.68	41	42487	1.08	ppbv	#	81
14) Acetone	8.37	43	40438	0.62	ppbv	#	90
17) Methylene chloride	8.93	49	67567	1.28	ppbv		93
20) n-Hexane ¥	9.39	57	894739	11.66	ppbv		97
29) Cyclohexane ¥	11.04	56	815482	10.50	ppbv	#	82
31) Benzene ¥	11.48	78	1164617	8.96	ppbv		97
34) Heptane	11.52	43	274484	2.88	ppbv	#	90
41) Toluene	13.81	91	207641	1.40	ppbv		97
51) m,p-Xylene	15.96	91	116991	0.87	ppbv		93

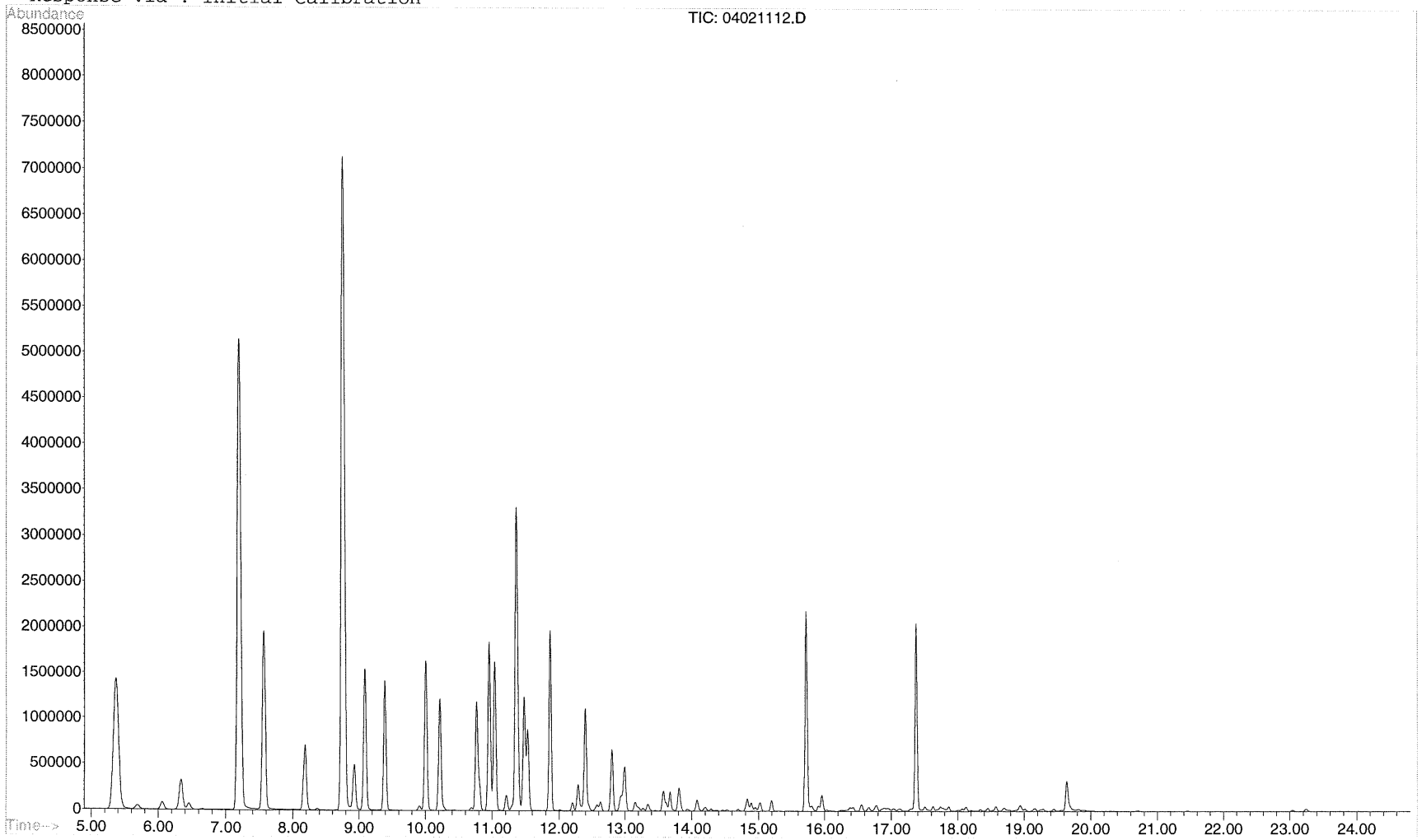
¥ reported only on 4/15/11

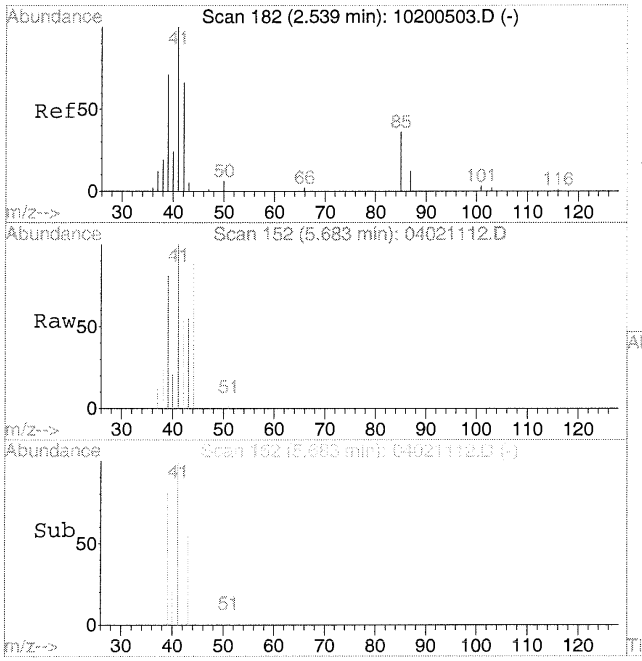
(#) = qualifier out of range (m) = manual integration
04021112.D 031611V1.M Thu Apr 14 12:19:53 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021112.D Vial: 9
Acq On : 2 Apr 2011 6:21 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:38 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

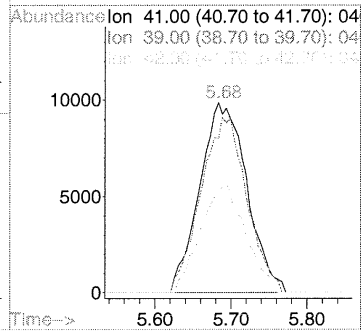


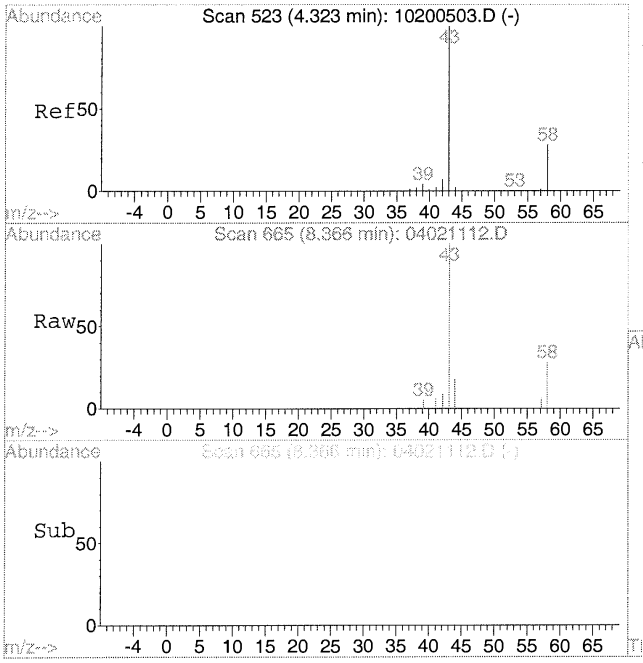


#2
Propylene
Concen: 1.08 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 41 Resp: 42487

Ion	Ratio	Lower	Upper
41	100		
39	90.4	57.6	86.4#
42	54.2	54.0	81.0

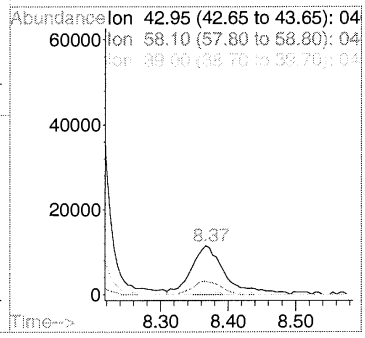


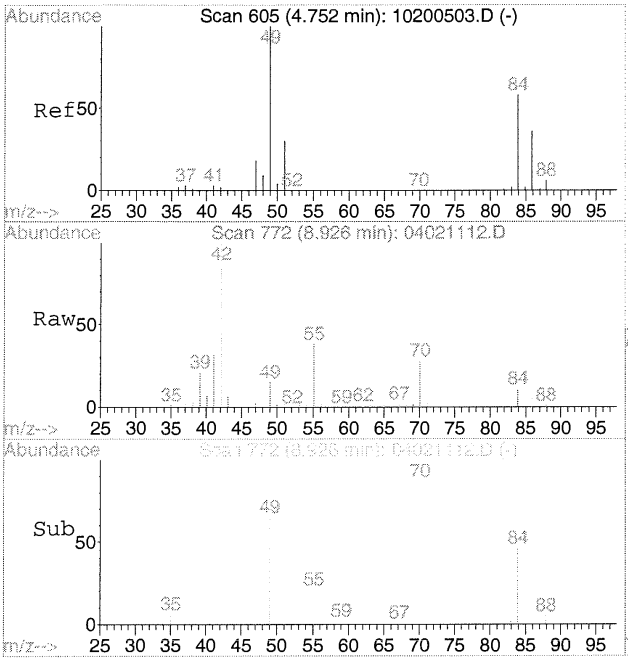


#14
Acetone
Concen: 0.62 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 43 Resp: 40438

Ion	Ratio	Lower	Upper
43	100		
58	22.5	22.0	33.0
39	3.8	6.5	9.7#

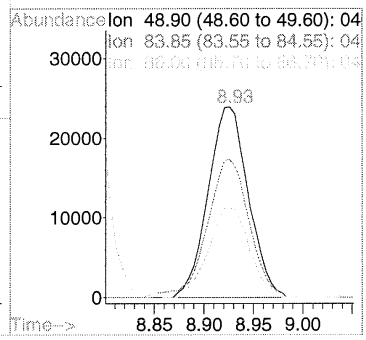


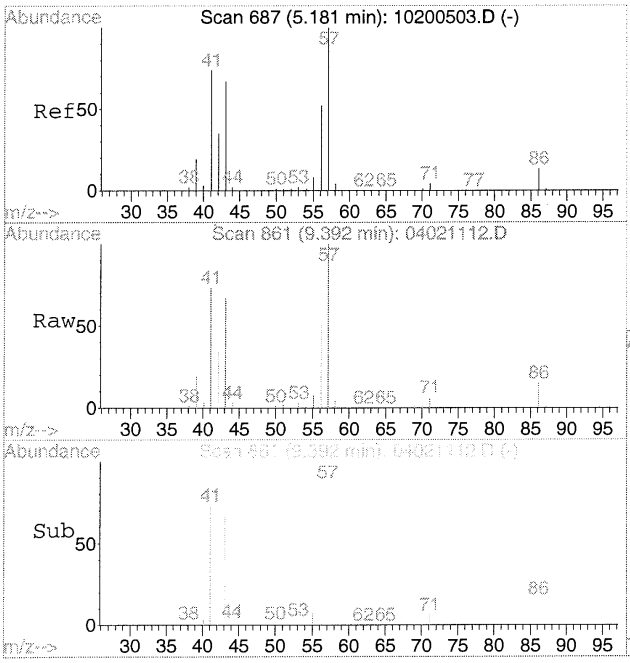


#17
Methylene chloride
Concen: 1.28 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 49 Resp: 67567

Ion	Ratio	Lower	Upper
49	100		
84	75.4	65.4	98.2
86	47.8	42.3	63.5

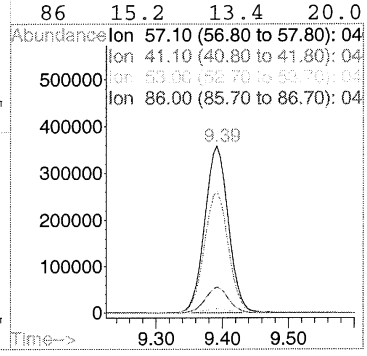


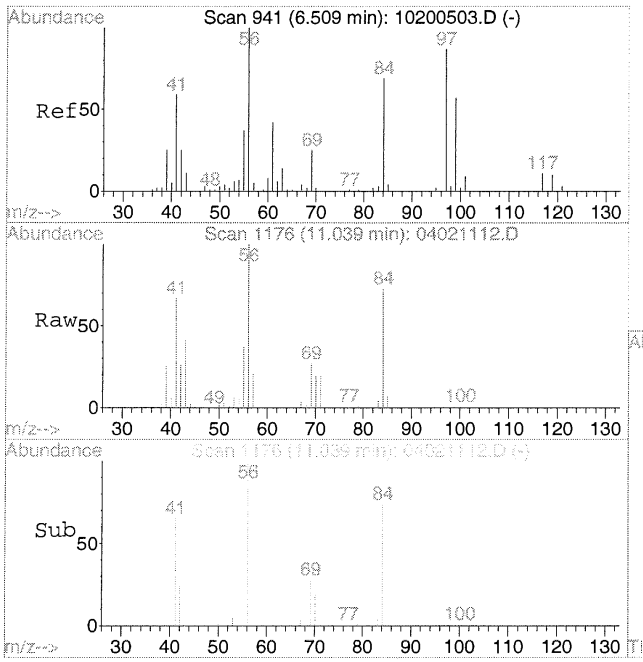


#20
n-Hexane
Concen: 11.66 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 57 Resp: 894739

Ion	Ratio	Lower	Upper
57	100		
41	73.6	57.2	85.8
53	2.3	1.8	2.8
86	15.2	13.4	20.0

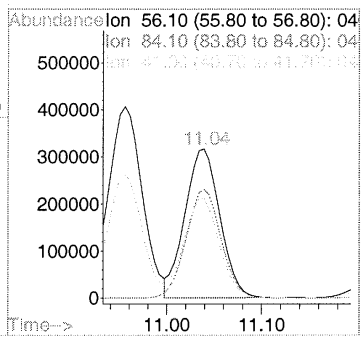


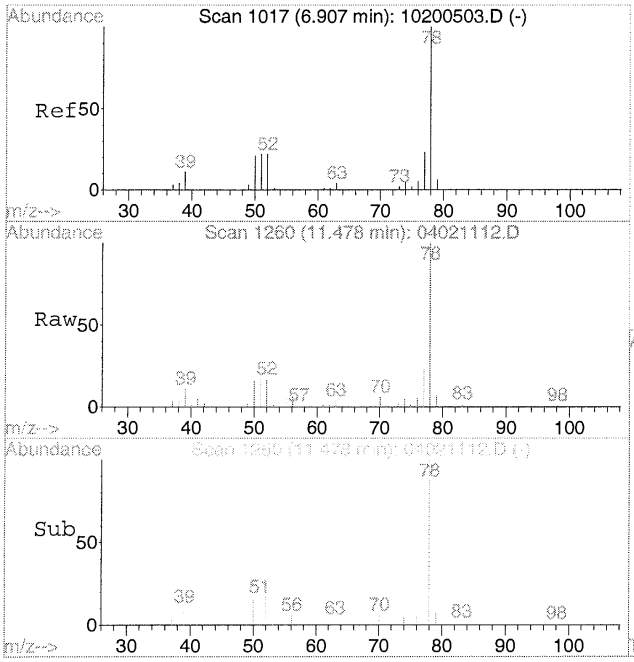


#29
Cyclohexane
Concen: 10.50 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 56 Resp: 815482

Ion	Ratio	Lower	Upper
56	100		
84	73.3	72.4	108.6
41	67.1	43.8	65.8#

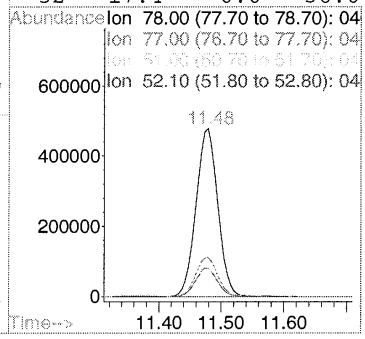


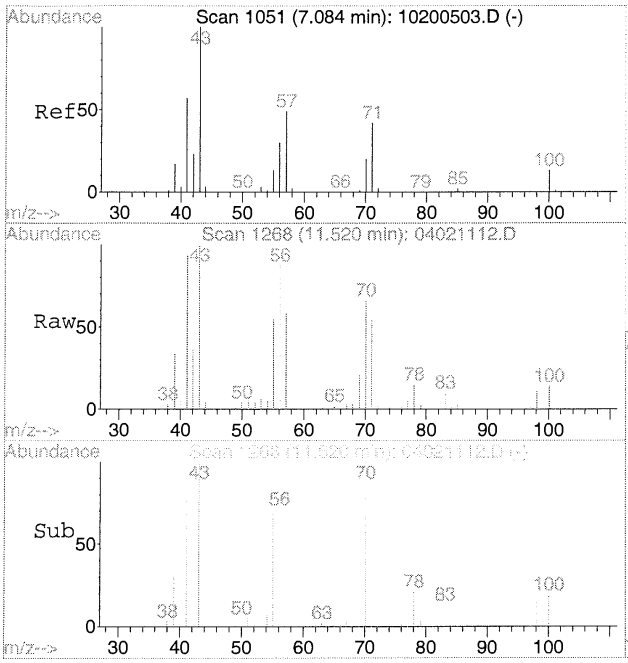


#31
Benzene
Concen: 8.96 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 78 Resp: 1164617

Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.7	43.7
51	18.4	0.0	36.1
52	17.4	0.0	36.0

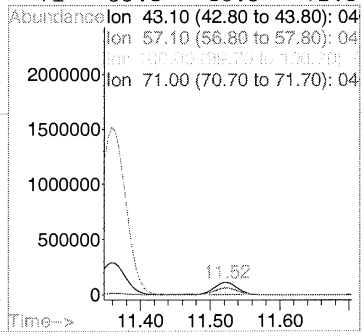


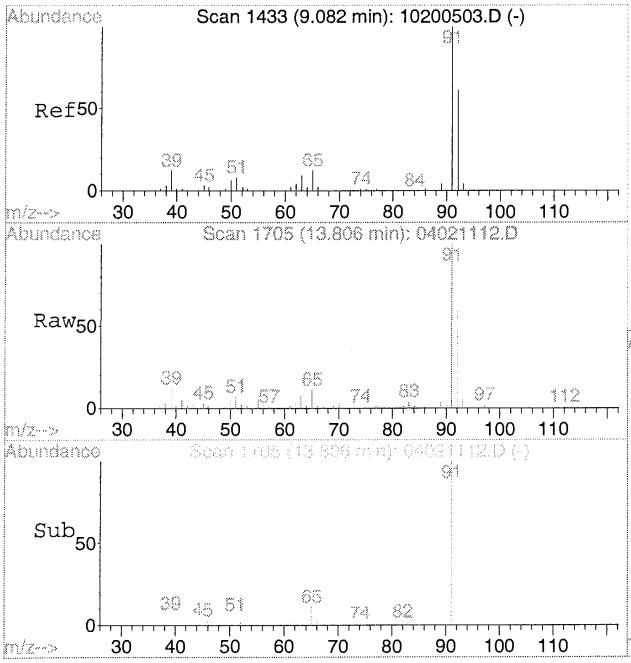


#34
Heptane
Concen: 2.88 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 43 Resp: 274484

Ion	Ratio	Lower	Upper
43	100		
57	59.3	42.2	63.4
100	13.4	17.3	25.9#
71	53.5	48.3	72.5

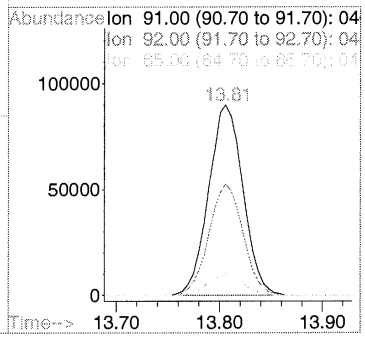


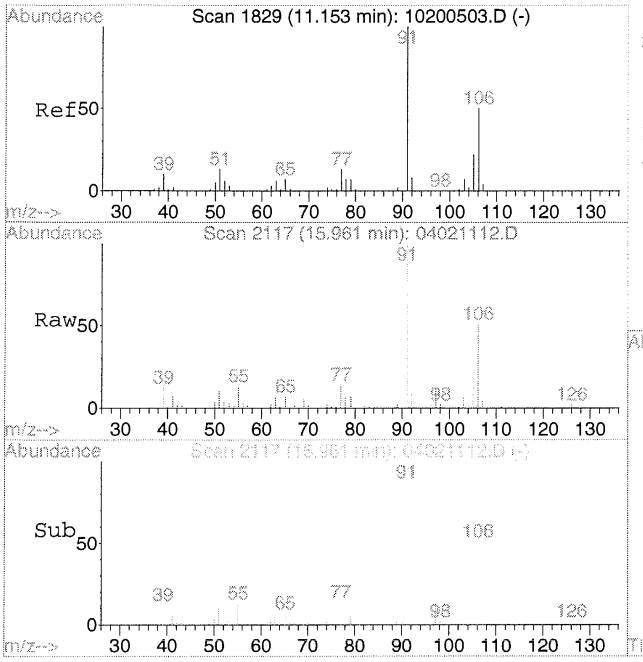


#41
Toluene
Concen: 1.40 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 91 Resp: 207641

Ion	Ratio	Lower	Upper
91	100		
92	57.8	40.5	80.5
65	11.5	0.0	31.2

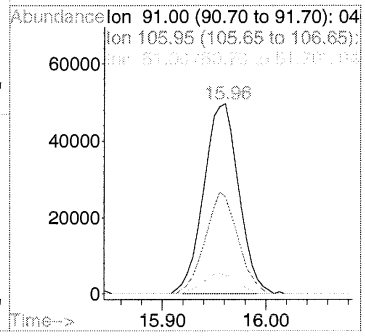




#51
m,p-Xylene
Concen: 0.87 ppbv
RT: 15.96 min Scan# 2117
Delta R.T. 0.00 min
Lab File: 04021112.D
Acq: 2 Apr 2011 6:21 pm

Tgt Ion: 91 Resp: 116991

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.6	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021113.D Vial: 10
Acq On : 2 Apr 2011 7:02 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:40 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	495199	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1764039	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1335564	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	857817	12.81	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 102.48%				
Target Compounds							Qvalue
14) Acetone	8.37	43	72556	1.19	ppbv	#	95
17) Methylene chloride	8.93	49	37239	0.75	ppbv		91
20) n-Hexane ¥	9.39	57	381497	5.28	ppbv		95
29) Cyclohexane ¥	11.04	56	585335	7.99	ppbv	#	74
31) Benzene ¥	11.48	78	709086	5.79	ppbv		95
34) Heptane ¥	11.52	43	744907	8.74	ppbv	#	93
41) Toluene ¥	13.81	91	1655512	12.45	ppbv		99
50) Ethylbenzene	15.80	91	172030	1.11	ppbv		94
51) m,p-Xylene	15.95	91	386968	3.22	ppbv		92
52) o-Xylene	16.55	91	113240	0.97	ppbv	#	89

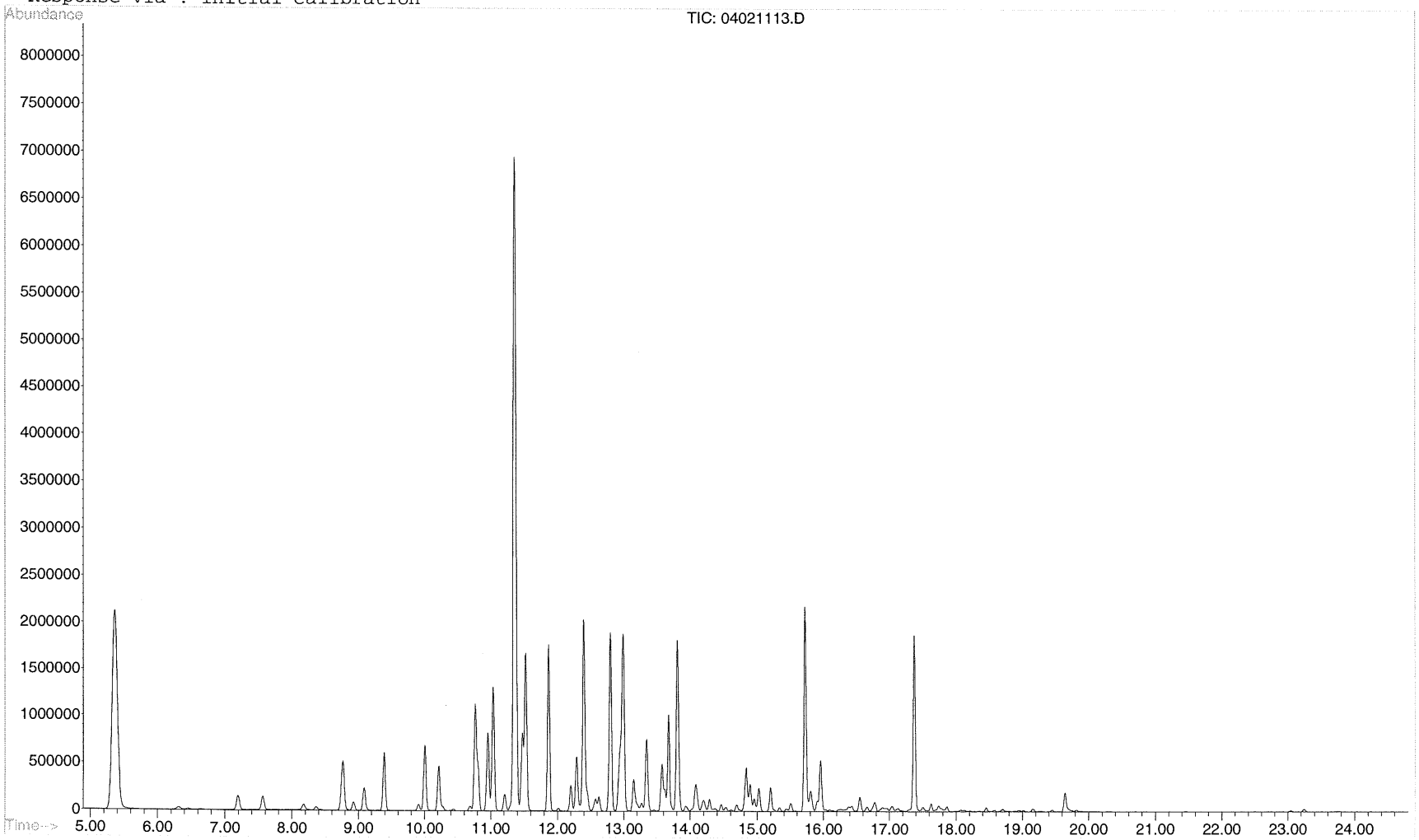
¥ reported only CA 4/15/11

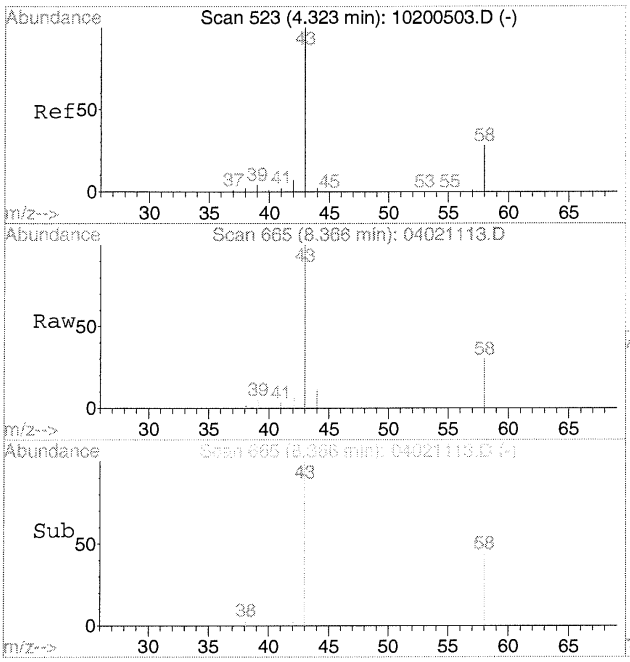
(#) = qualifier out of range (m) = manual integration
04021113.D 031611V1.M Thu Apr 14 12:20:11 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021113.D Vial: 10
Acq On : 2 Apr 2011 7:02 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:40 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

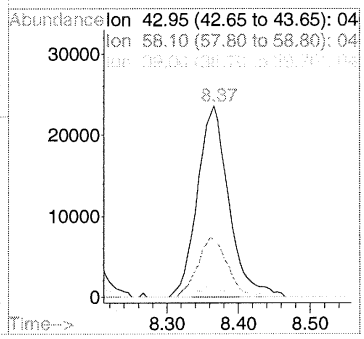


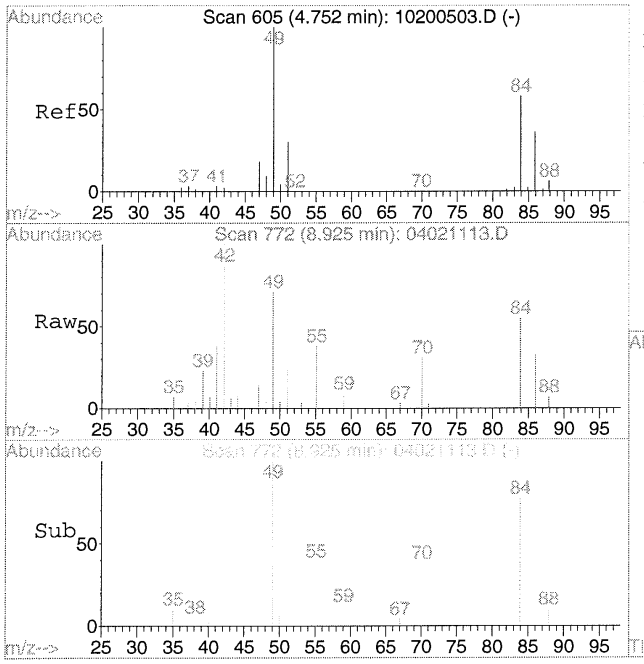


#14
Acetone
Concen: 1.19 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 43 Resp: 72556

Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.0	33.0
39	4.2	6.5	9.7#

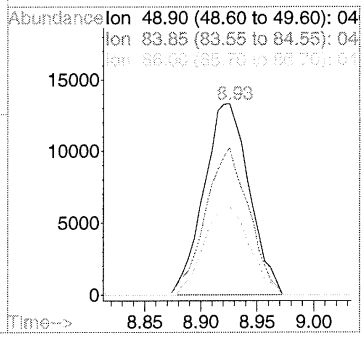


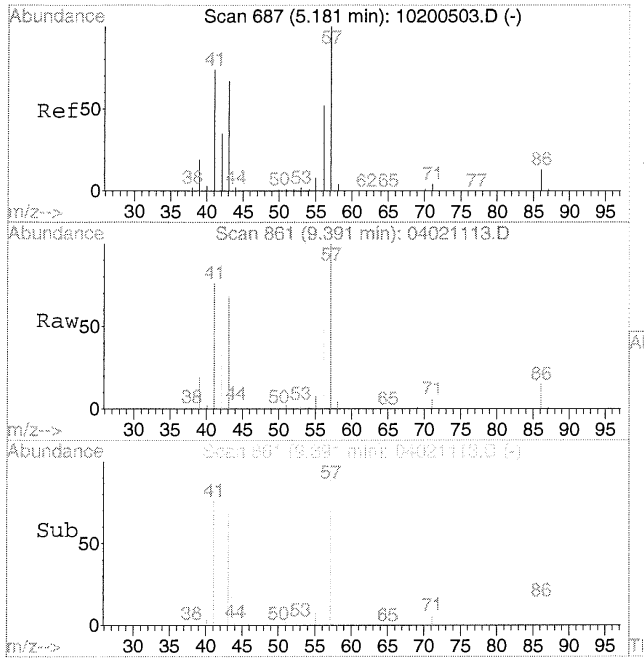


#17
Methylene chloride
Concen: 0.75 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 49 Resp: 37239

Ion	Ratio	Lower	Upper
49	100		
84	73.6	65.4	98.2
86	46.7	42.3	63.5

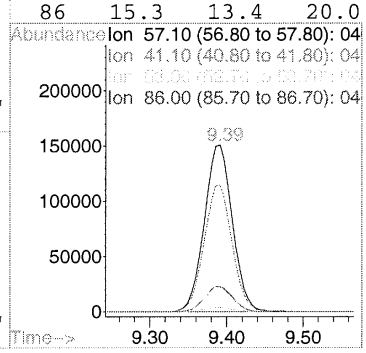


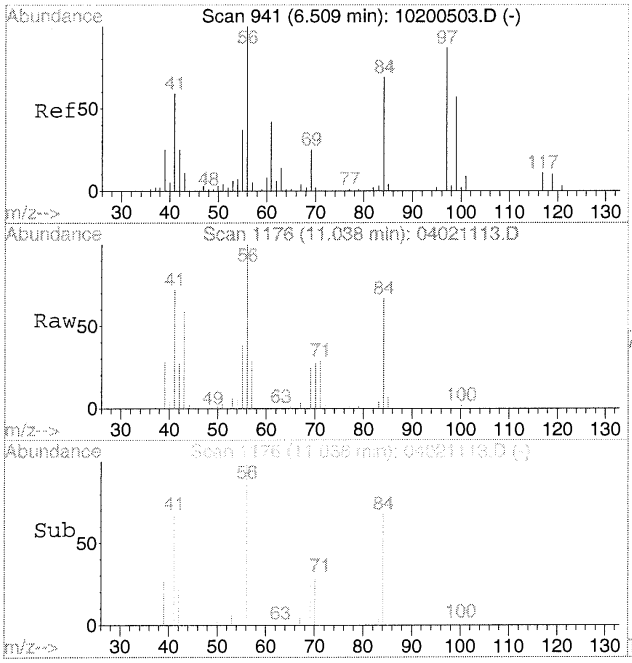


#20
n-Hexane
Concen: 5.28 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 57 Resp: 381497

Ion	Ratio	Lower	Upper
57	100		
41	75.9	57.2	85.8
53	2.5	1.8	2.8
86	15.3	13.4	20.0

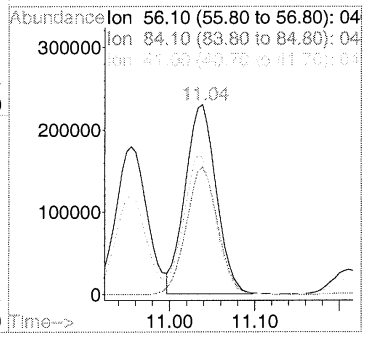


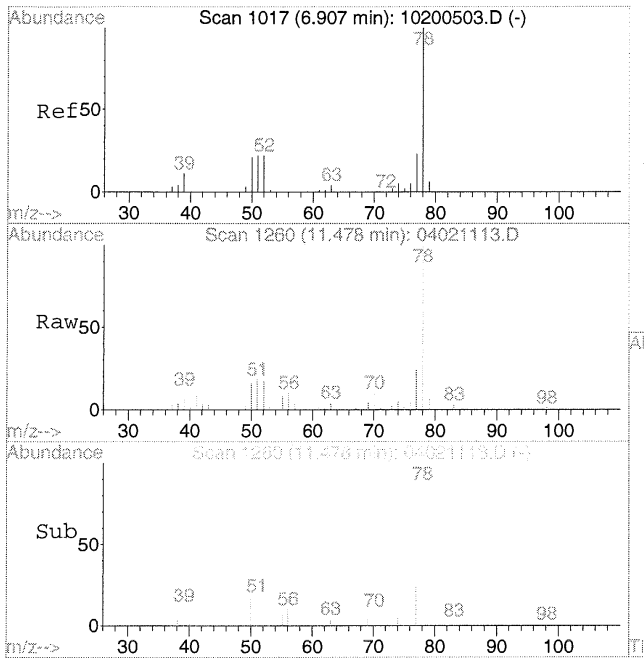


#29
Cyclohexane
Concen: 7.99 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 56 Resp: 585335

Ion	Ratio	Lower	Upper
56	100		
84	67.8	72.4	108.6#
41	75.1	43.8	65.8#

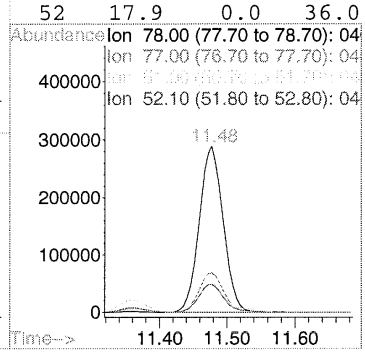


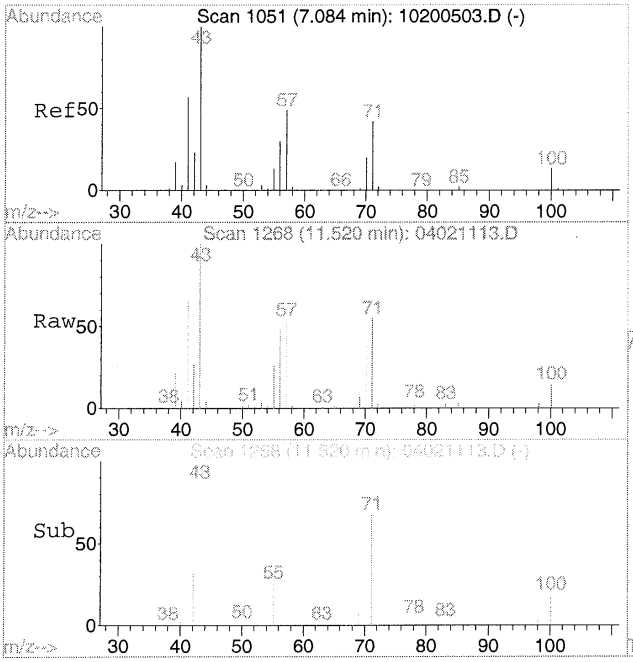


#31
Benzene
Concen: 5.79 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 78 Resp: 709086

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	19.9	0.0	36.1
52	17.9	0.0	36.0

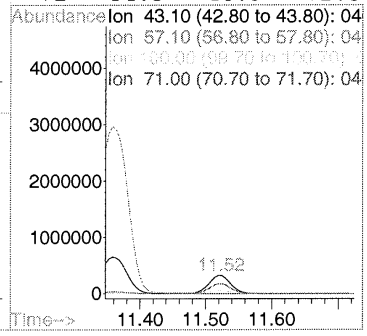


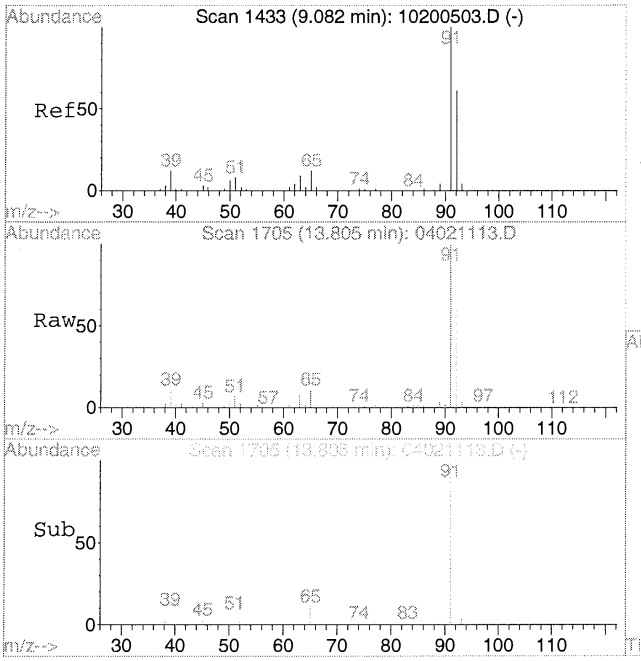


#34
Heptane
Concen: 8.74 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 43 Resp: 744907

Ion	Ratio	Lower	Upper
43	100		
57	55.0	42.2	63.4
100	14.9	17.3	25.9#
71	54.5	48.3	72.5

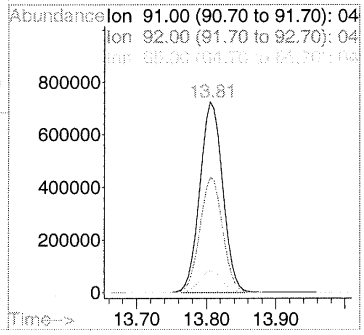


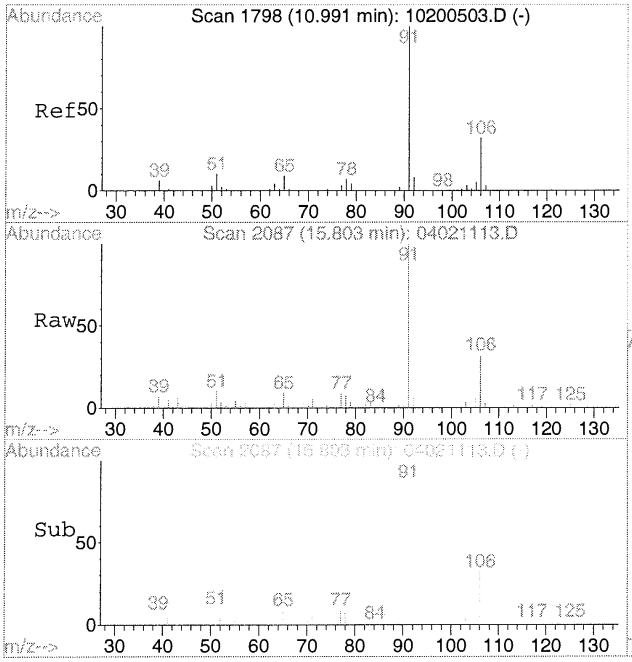


#41
Toluene
Concen: 12.45 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 91 Resp: 1655512

Ion	Ratio	Lower	Upper
91	100		
92	59.8	40.5	80.5
65	11.6	0.0	31.2

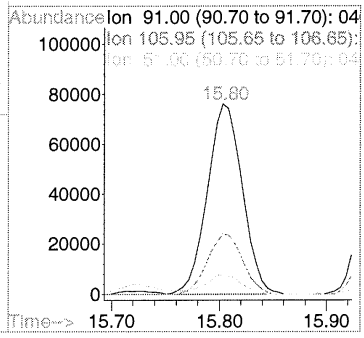


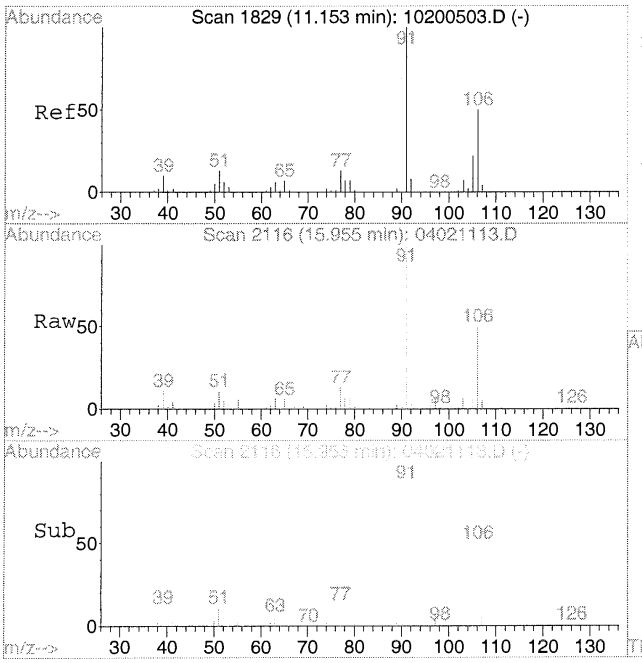


#50
Ethylbenzene
Concen: 1.11 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 91 Resp: 172030

Ion	Ratio	Lower	Upper
91	100		
106	31.6	14.9	54.9
51	10.8	0.0	33.1

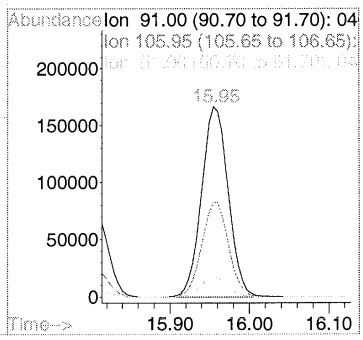


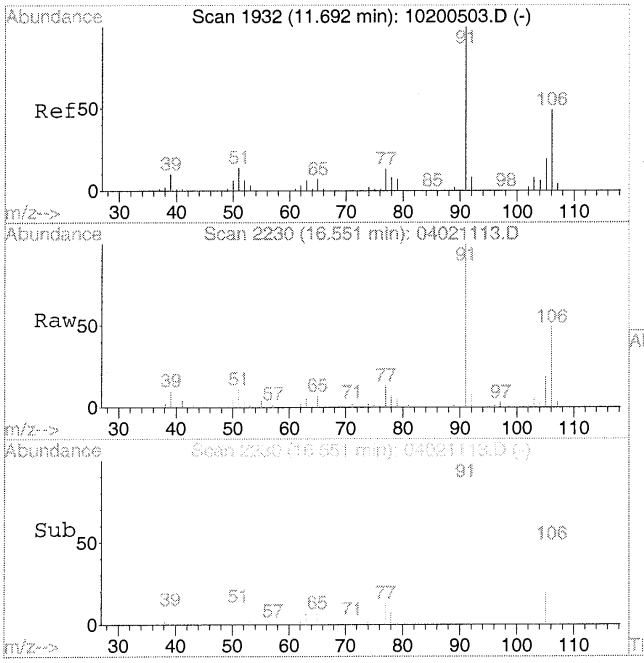


#51
m,p-Xylene
Concen: 3.22 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 91 Resp: 386968

Ion	Ratio	Lower	Upper
91	100		
106	49.5	35.6	75.6
51	10.5	0.0	29.6

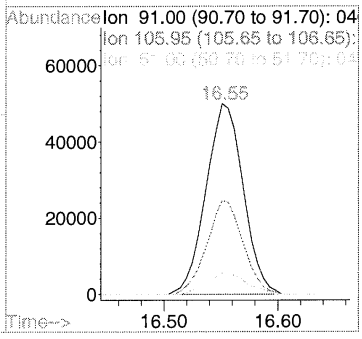




#52
o-Xylene
Concen: 0.97 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021113.D
Acq: 2 Apr 2011 7:02 pm

Tgt Ion: 91 Resp: 113240

Ion	Ratio	Lower	Upper
91	100		
106	47.9	41.0	61.6
51	12.1	19.7	29.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021114.D Vial: 11
Acq On : 2 Apr 2011 7:43 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 21:08 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	513308	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1845043	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1337344	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	815910	12.17	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.36%				
Target Compounds							Qvalue
20) n-Hexane *	9.40	57	466105	6.22	ppbv		95
26) Tetrahydrofuran	10.81	42	92531	2.16	ppbv	#	40
29) Cyclohexane *	11.04	56	560880	7.39	ppbv	#	79
31) Benzene	11.47	78	273888	2.16	ppbv		94
34) Heptane	11.52	43	257712	2.89	ppbv	#	92
41) Toluene	13.81	91	395177	2.84	ppbv		98

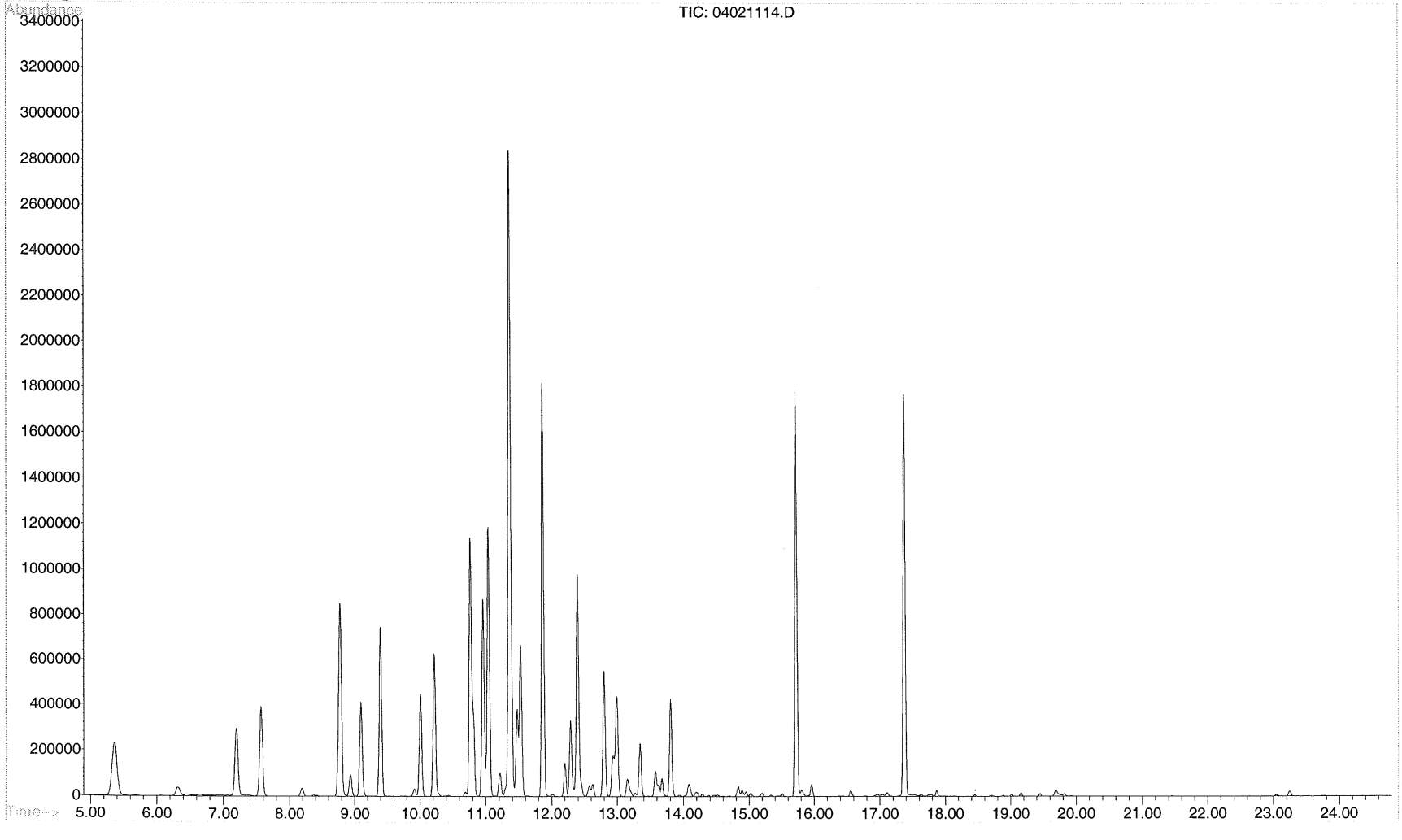
* reported only
CA
4/15/11

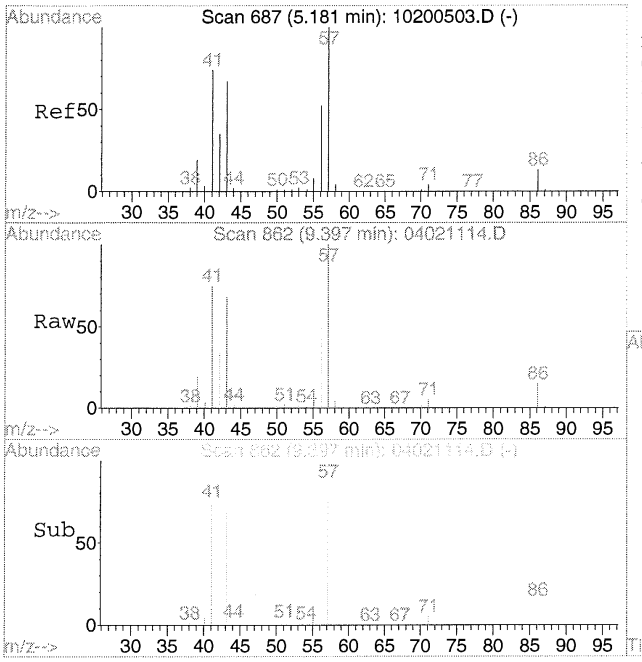
(#) = qualifier out of range (m) = manual integration
04021114.D 031611V1.M Thu Apr 14 12:20:23 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021114.D Vial: 11
Acq On : 2 Apr 2011 7:43 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 21:08 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

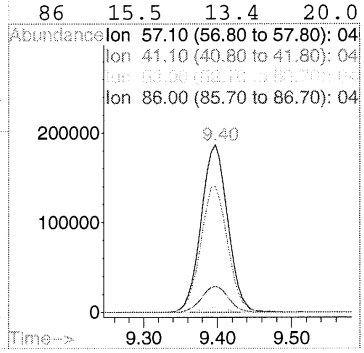


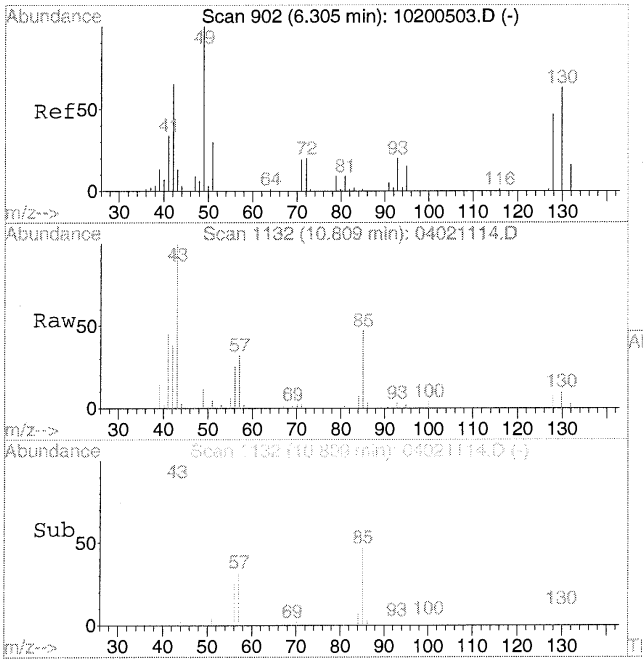


#20
n-Hexane
Concen: 6.22 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04021114.D
Acq: 2 Apr 2011 7:43 pm

Tgt Ion: 57 Resp: 466105

Ion	Ratio	Lower	Upper
57	100		
41	76.0	57.2	85.8
53	2.5	1.8	2.8
86	15.5	13.4	20.0

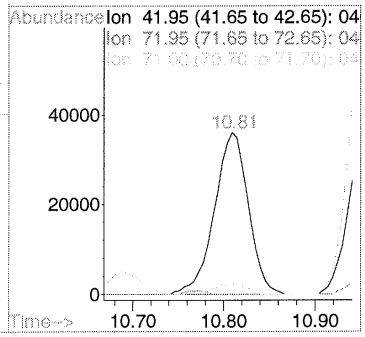


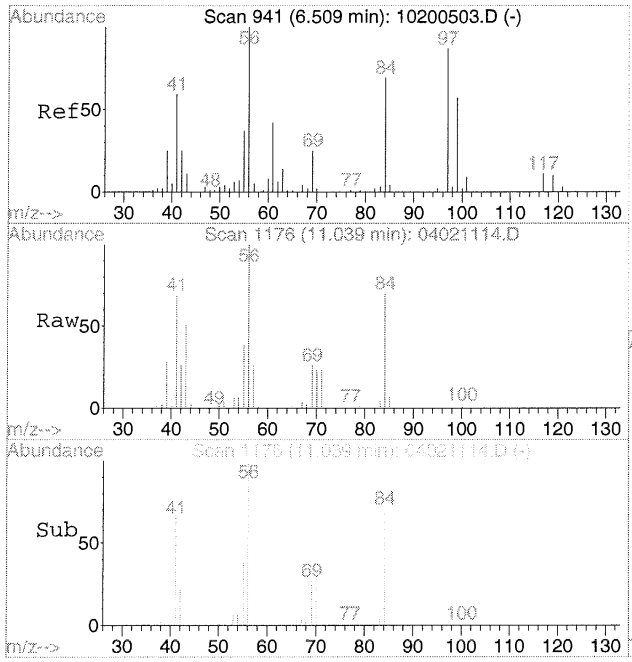


#26
Tetrahydrofuran
Concen: 2.16 ppbv
RT: 10.81 min Scan# 1132
Delta R.T. 0.05 min
Lab File: 04021114.D
Acq: 2 Apr 2011 7:43 pm

Tgt Ion: 42 Resp: 92531

Ion	Ratio	Lower	Upper
42	100		
72	1.3	35.0	52.6#
71	7.1	31.9	47.9#

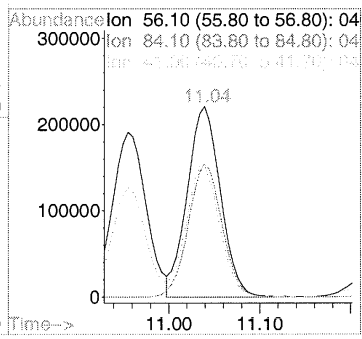


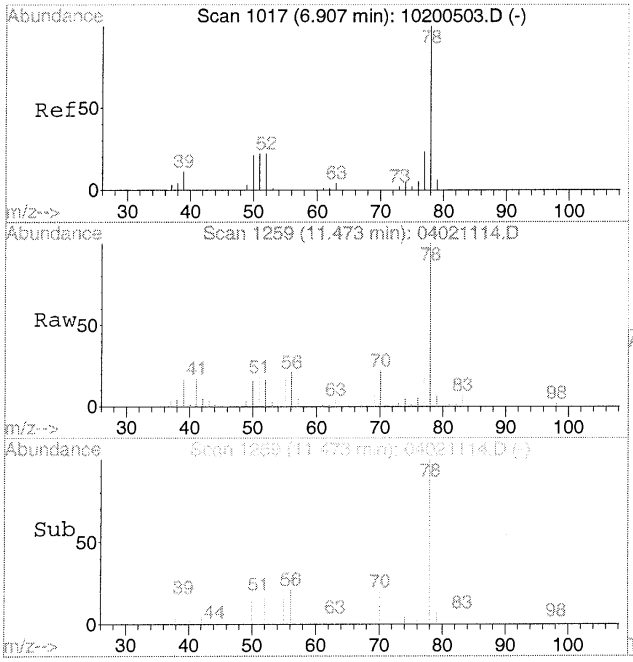


#29
Cyclohexane
Concen: 7.39 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04021114.D
Acq: 2 Apr 2011 7:43 pm

Tgt Ion: 56 Resp: 560880

Ion	Ratio	Lower	Upper
56	100		
84	70.5	72.4	108.6#
41	70.0	43.8	65.8#

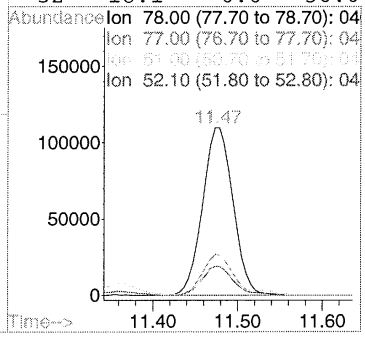


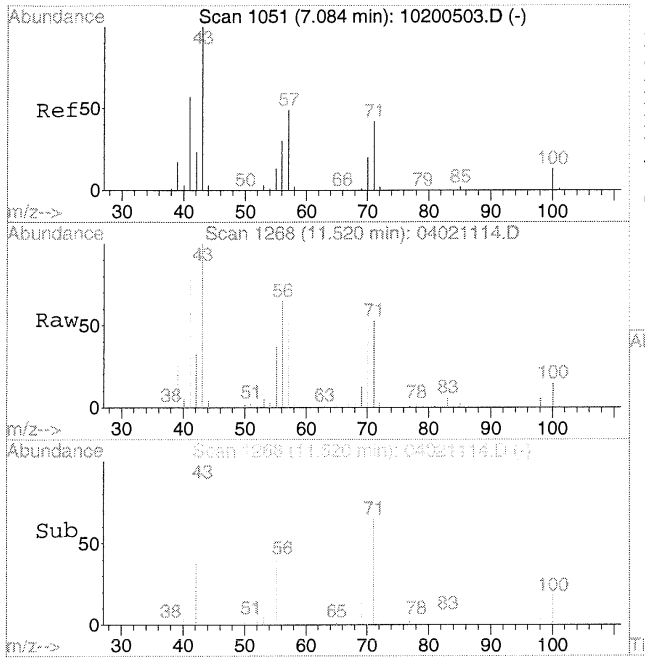


#31
Benzene
Concen: 2.16 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04021114.D
Acq: 2 Apr 2011 7:43 pm

Tgt Ion: 78 Resp: 273888

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	21.0	0.0	36.1
52	18.1	0.0	36.0

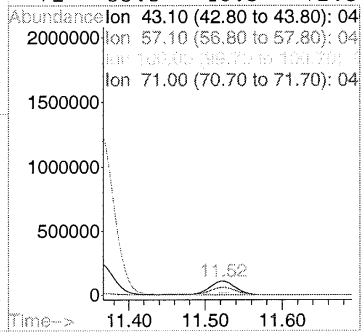


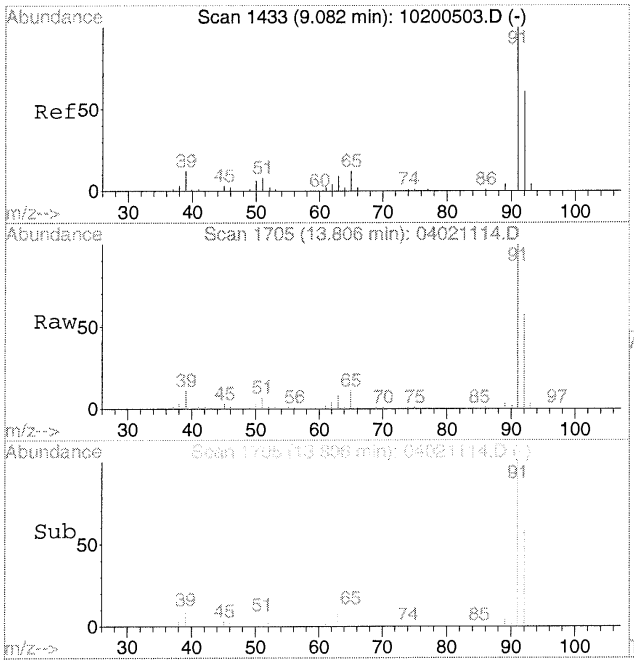


#34
Heptane
Concen: 2.89 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021114.D
Acq: 2 Apr 2011 7:43 pm

Tgt Ion: 43 Resp: 257712

Ion	Ratio	Lower	Upper
43	100		
57	54.5	42.2	63.4
100	14.2	17.3	25.9#
71	53.3	48.3	72.5

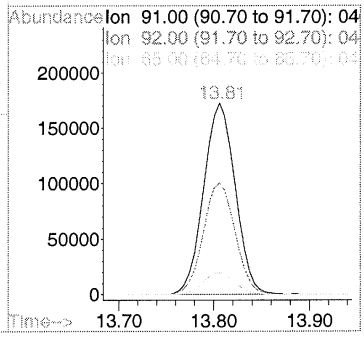




#41
Toluene
Concen: 2.84 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021114.D
Acq: 2 Apr 2011 7:43 pm

Tgt Ion: 91 Resp: 395177

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	11.4	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021115.D Vial: 12
Acq On : 2 Apr 2011 8:24 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 21:49 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	520349	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1948792	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1414921	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	858269	12.10	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.80%				
Target Compounds							Qvalue
20) n-Hexane *	9.40	57	682615	8.98	ppbv		95
26) Tetrahydrofuran	10.81	42	93564	2.16	ppbv	#	40
29) Cyclohexane *	11.04	56	671502	8.73	ppbv	#	81
31) Benzene	11.48	78	434853	3.38	ppbv		95
34) Heptane	11.52	43	308289	3.28	ppbv	#	91
41) Toluene	13.80	91	594295	4.05	ppbv		98
51) m,p-Xylene	15.96	91	63985	0.50	ppbv		92

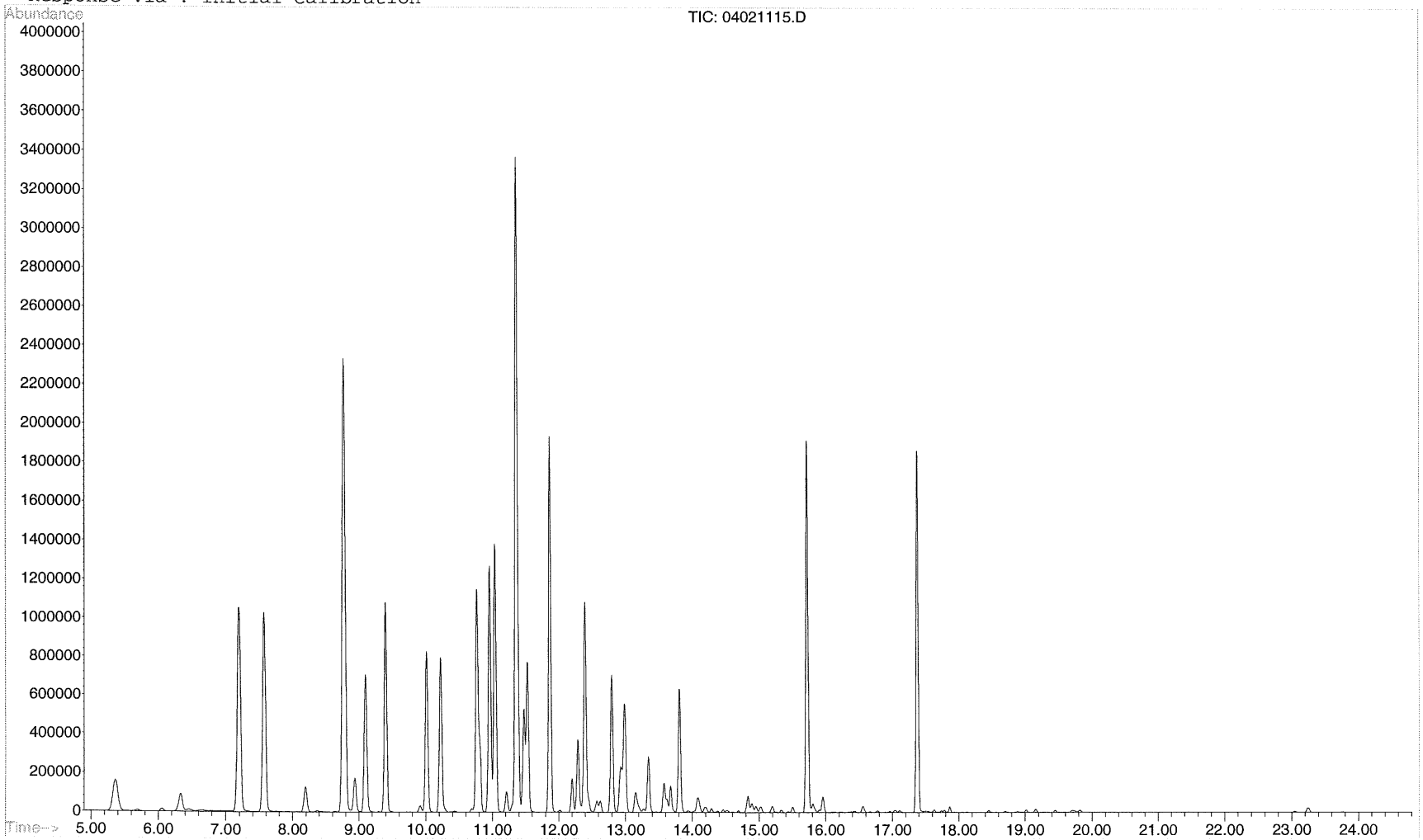
* reported only
ch
4/18/11

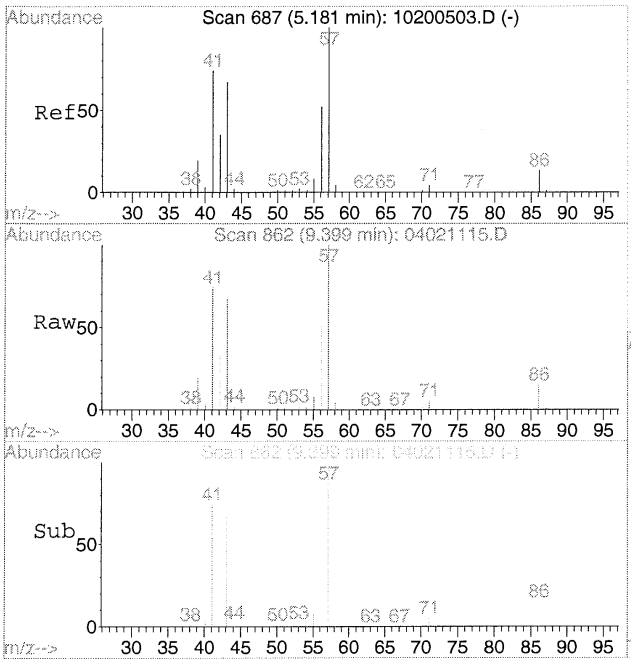
(#) = qualifier out of range (m) = manual integration
04021115.D 031611V1.M Thu Apr 14 12:20:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021115.D Vial: 12
Acq On : 2 Apr 2011 8:24 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 21:49 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

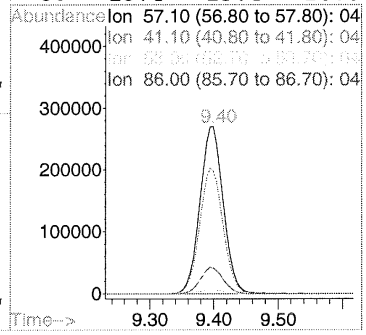


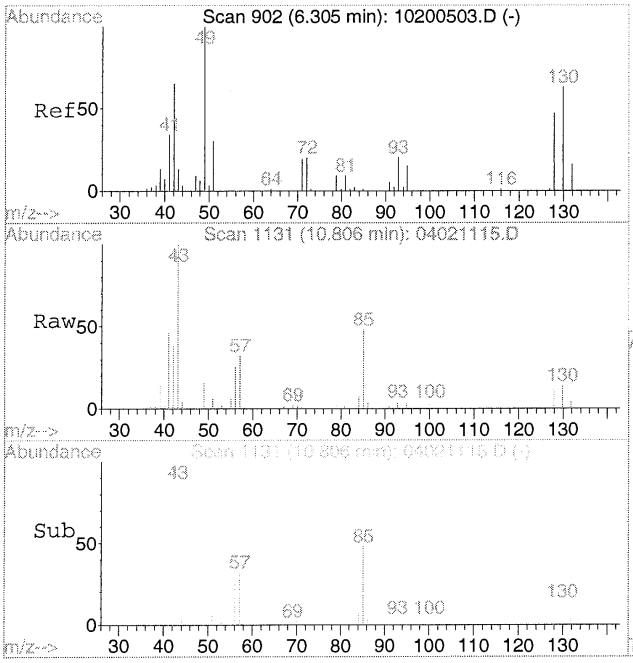


#20
n-Hexane
Concen: 8.98 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 57 Resp: 682615

Ion	Ratio	Lower	Upper
57	100		
41	75.6	57.2	85.8
53	2.5	1.8	2.8
86	15.4	13.4	20.0

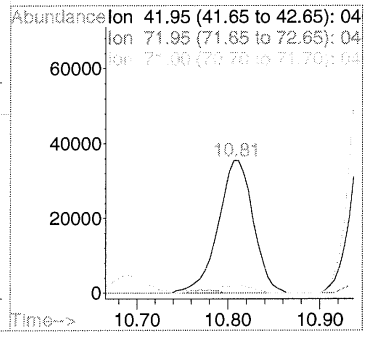


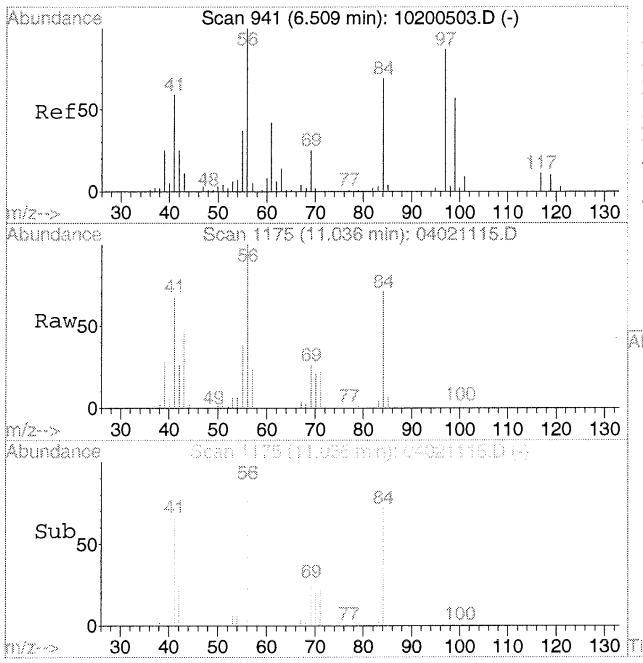


#26
Tetrahydrofuran
Concen: 2.16 ppbv
RT: 10.81 min Scan# 1131
Delta R.T. 0.05 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 42 Resp: 93564

Ion	Ratio	Lower	Upper
42	100		
72	1.5	35.0	52.6#
71	7.1	31.9	47.9#

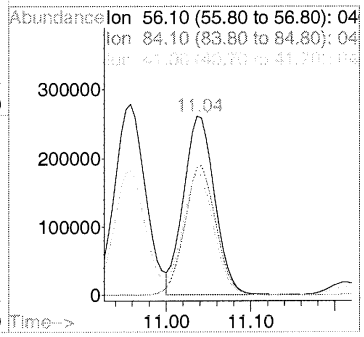


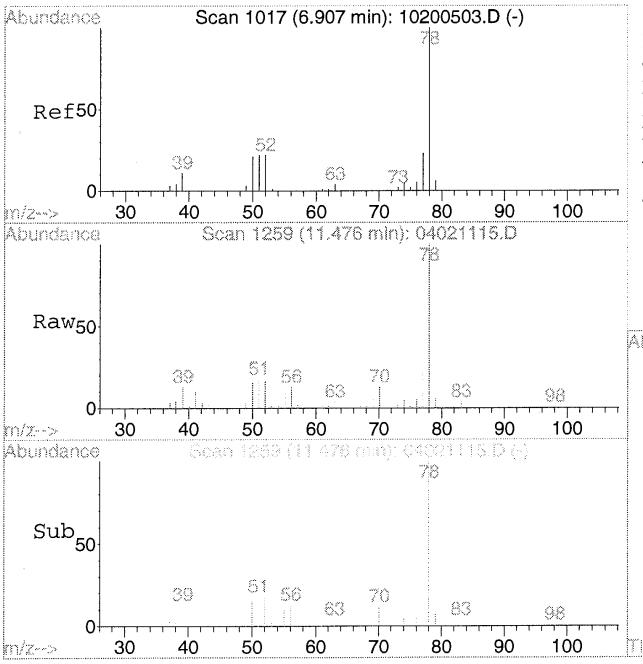


#29
Cyclohexane
Concen: 8.73 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 56 Resp: 671502

Ion	Ratio	Lower	Upper
56	100		
84	72.9	72.4	108.6
41	68.7	43.8	65.8#

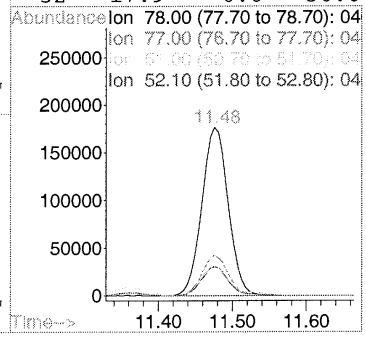


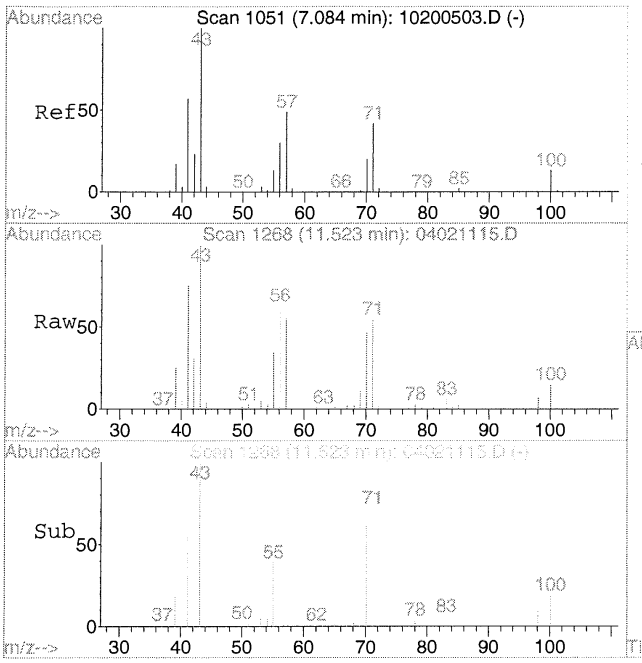


#31
Benzene
Concen: 3.38 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 78 Resp: 434853

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.7	43.7
51	19.9	0.0	36.1
52	17.9	0.0	36.0

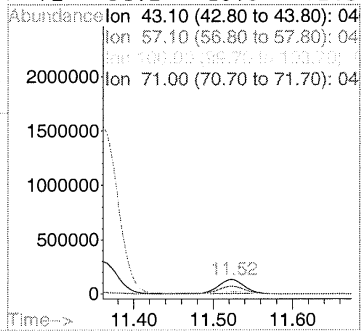


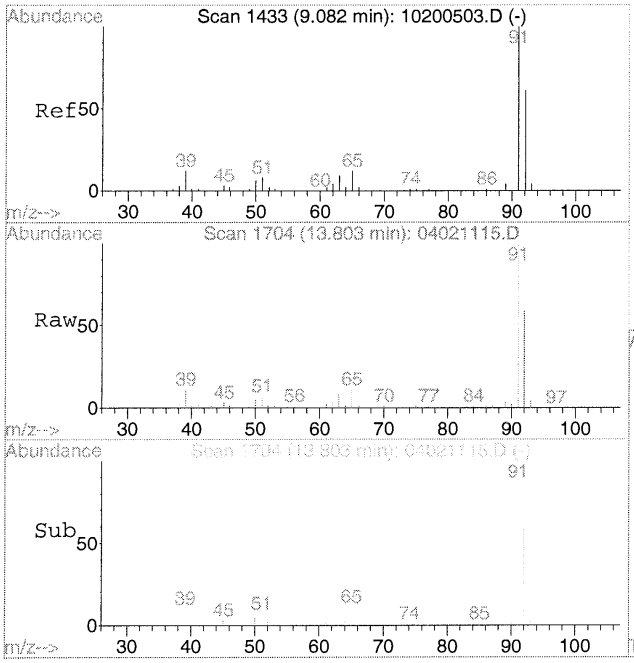


#34
Heptane
Concen: 3.28 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 43 Resp: 308289

Ion	Ratio	Lower	Upper
43	100		
57	58.8	42.2	63.4
100	14.2	17.3	25.9#
71	54.2	48.3	72.5

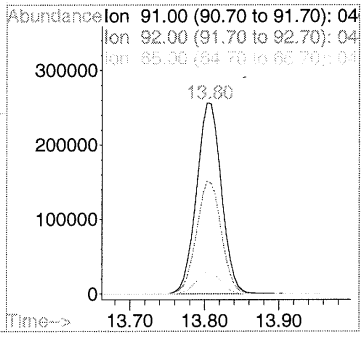


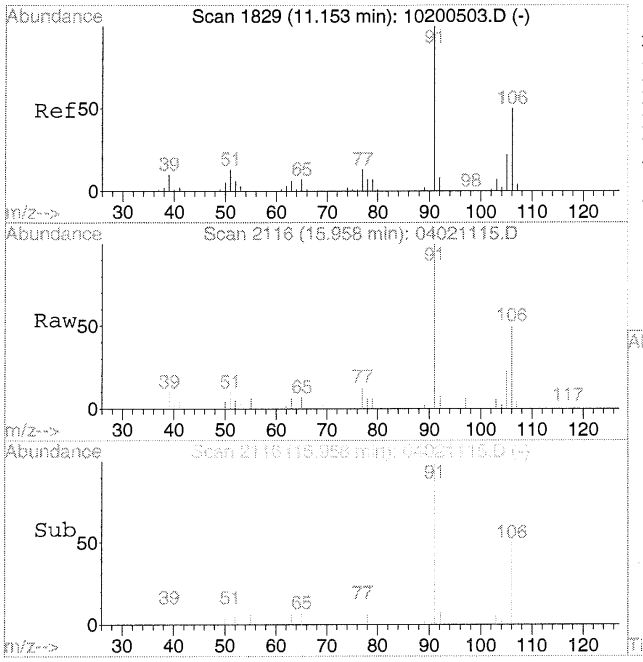


#41
Toluene
Concen: 4.05 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 91 Resp: 594295

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	11.4	0.0	31.2

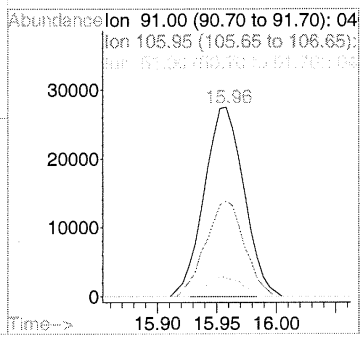




#51
m,p-Xylene
Concen: 0.50 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021115.D
Acq: 2 Apr 2011 8:24 pm

Tgt Ion: 91 Resp: 63985

Ion	Ratio	Lower	Upper
91	100		
106	49.0	35.6	75.6
51	9.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021116.D Vial: 13
Acq On : 2 Apr 2011 9:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 22:30 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	496236	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1735200	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1329319	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	843192	12.66	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.28%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	1830407	25.26	ppbv		98
26) Tetrahydrofuran	10.81	42	336365	8.13	ppbv	#	39
29) Cyclohexane	11.04	56	1999695	27.25	ppbv	#	80
31) Benzene*	11.47	78	898804	7.33	ppbv		93
34) Heptane*	11.52	43	1180629	14.09	ppbv	#	93
41) Toluene*	13.81	91	1384236	10.58	ppbv		99
50) Ethylbenzene	15.81	91	85064	0.55	ppbv		95
51) m,p-Xylene	15.96	91	186174	1.56	ppbv		93
52) o-Xylene	16.55	91	64090	0.55	ppbv	#	88

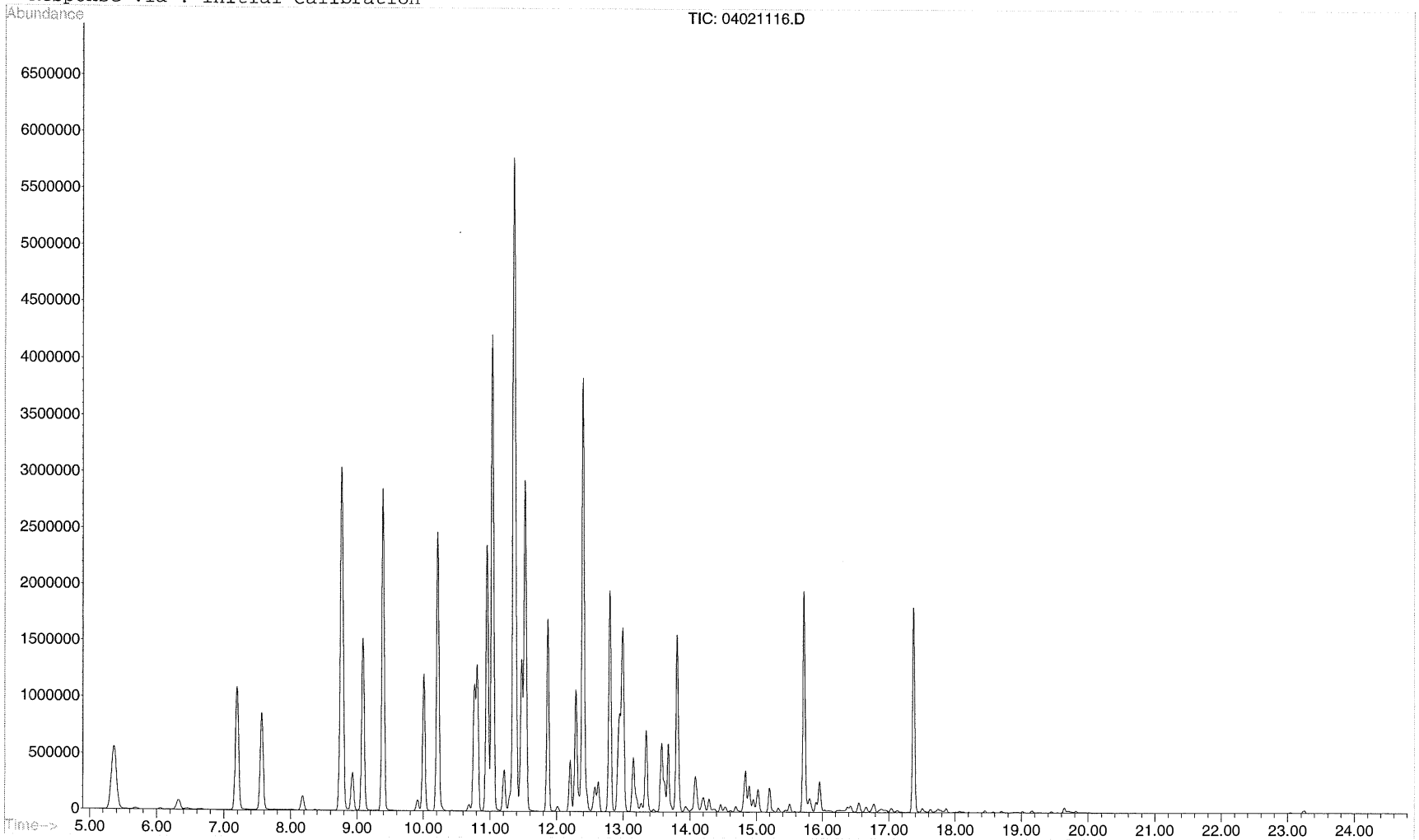
* reported only
ch
4/15/11

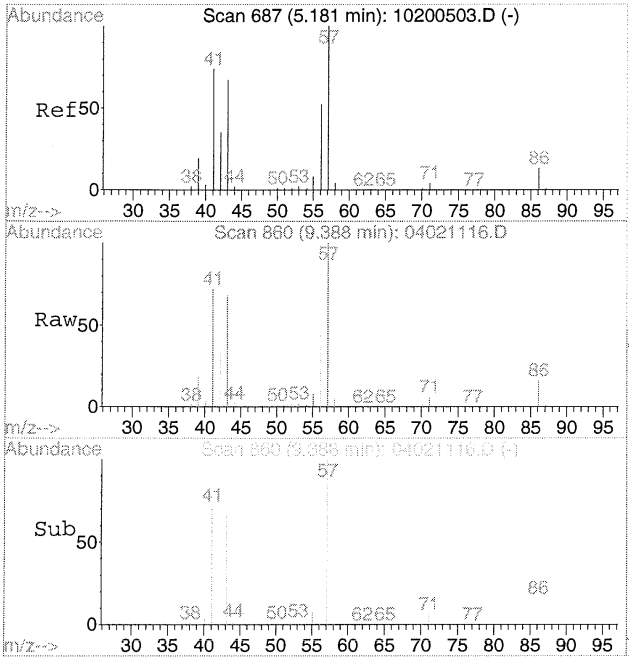
(#) = qualifier out of range (m) = manual integration
04021116.D 031611V1.M Thu Apr 14 12:20:52 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021116.D Vial: 13
Acq On : 2 Apr 2011 9:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 2 22:30 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

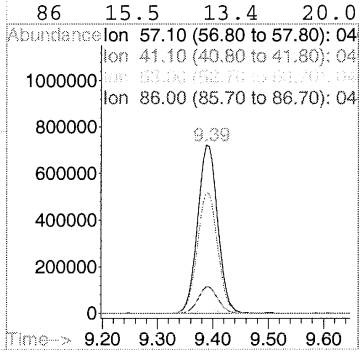


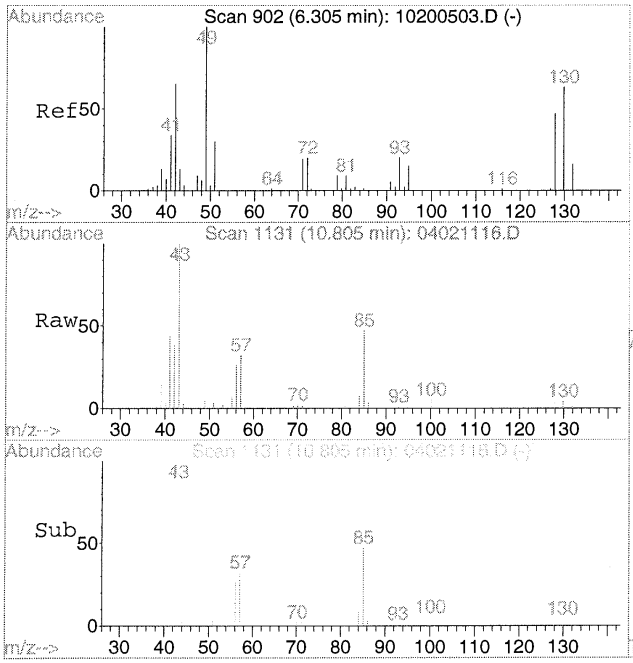


#20
n-Hexane
Concen: 25.26 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 57 Resp: 1830407

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

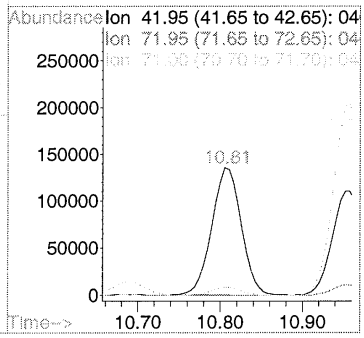


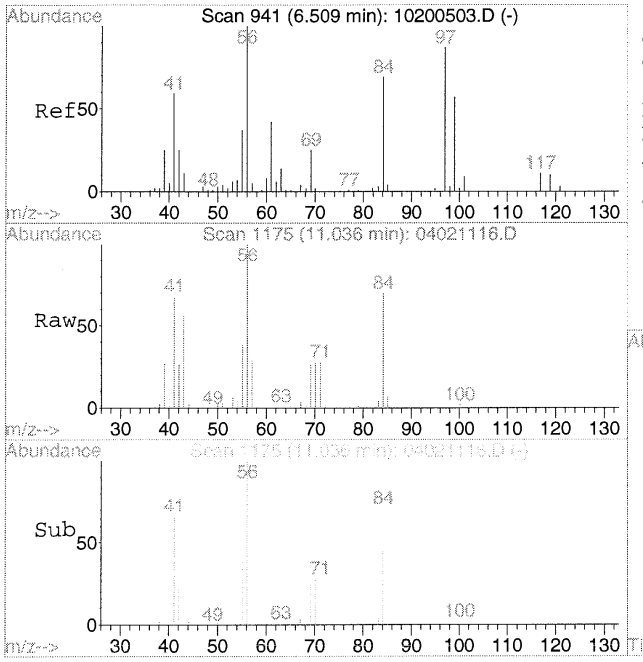


#26
Tetrahydrofuran
Concen: 8.13 ppbv
RT: 10.81 min Scan# 1131
Delta R.T. 0.05 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 42 Resp: 336365

Ion	Ratio	Lower	Upper
42	100		
72	0.4	35.0	52.6#
71	6.3	31.9	47.9#

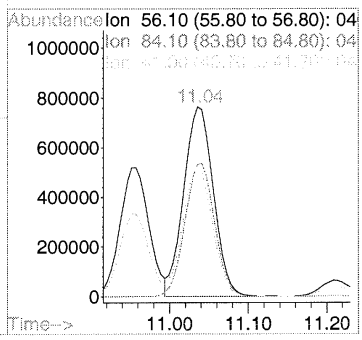


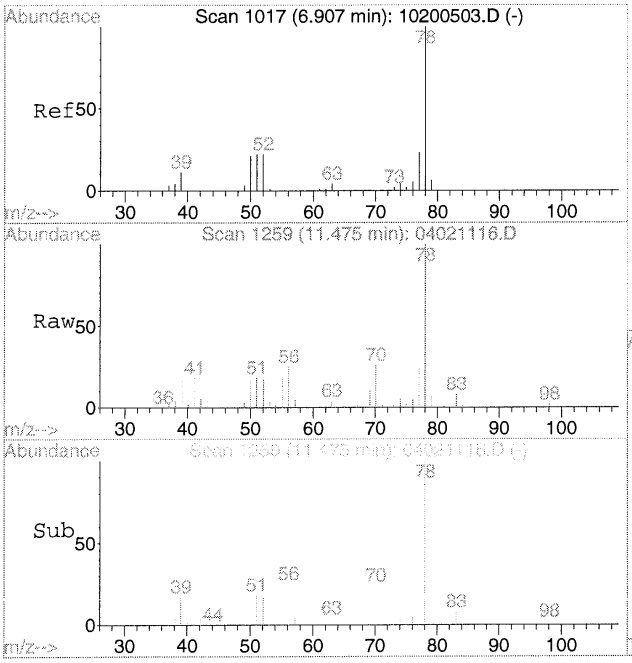


#29
Cyclohexane
Concen: 27.25 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 56 Resp: 1999695

Ion	Ratio	Lower	Upper
56	100		
84	70.4	72.4	108.6#
41	68.5	43.8	65.8#

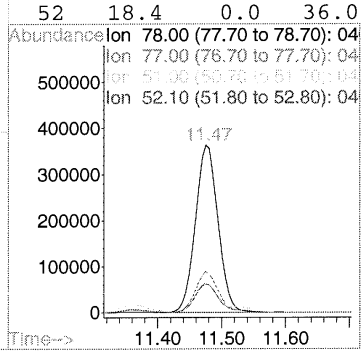


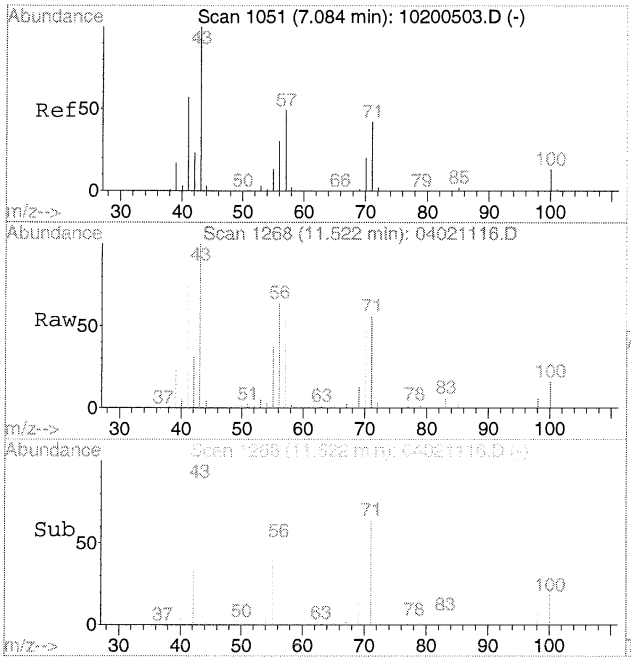


#31
Benzene
Concen: 7.33 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 78 Resp: 898804

Ion	Ratio	Lower	Upper
78	100		
77	25.3	3.7	43.7
51	21.4	0.0	36.1
52	18.4	0.0	36.0

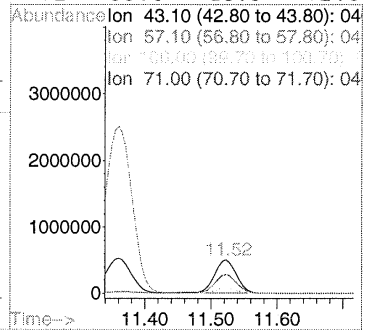


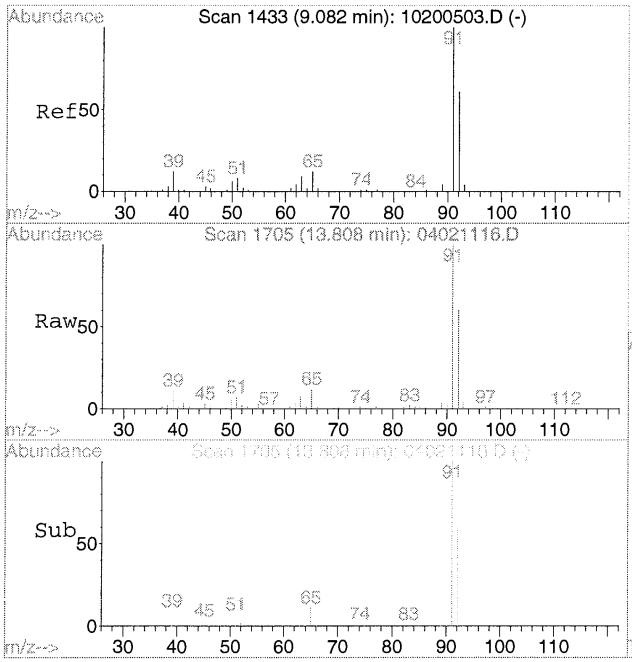


#34
Heptane
Concen: 14.09 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 43 Resp: 1180629

Ion	Ratio	Lower	Upper
43	100		
57	56.7	42.2	63.4
100	14.9	17.3	25.9#
71	55.8	48.3	72.5

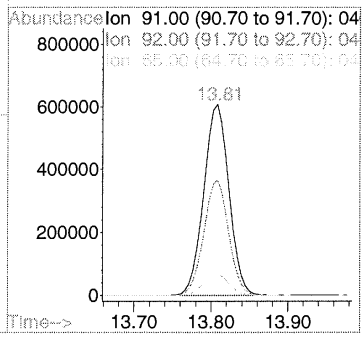


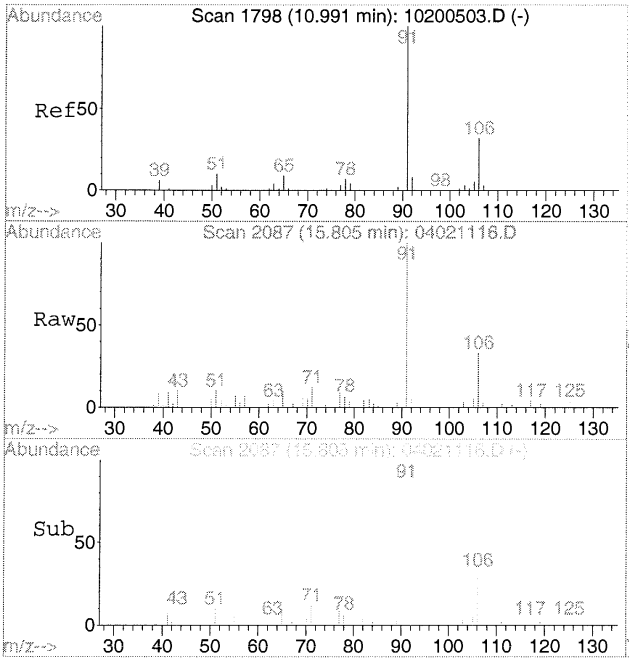


#41
Toluene
Concen: 10.58 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 91 Resp: 1384236

Ion	Ratio	Lower	Upper
91	100		
92	59.4	40.5	80.5
65	11.7	0.0	31.2

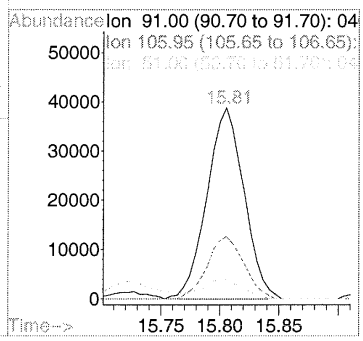


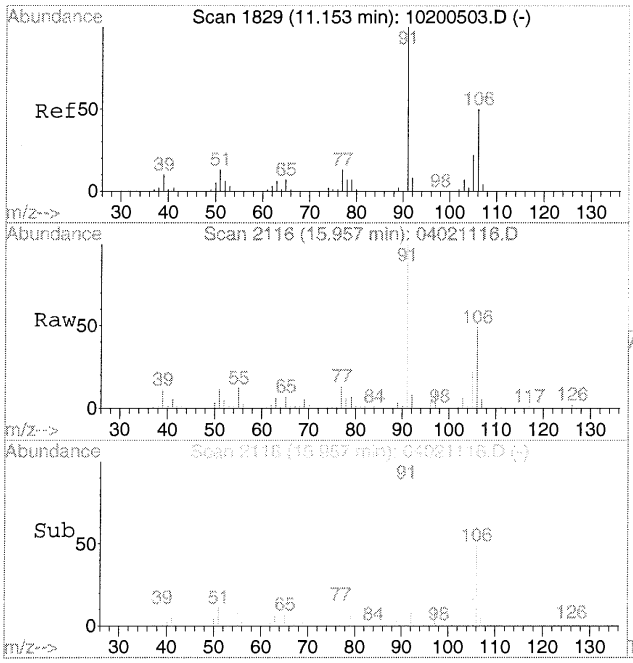


#50
Ethylbenzene
Concen: 0.55 ppbv
RT: 15.81 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 91 Resp: 85064

Ion	Ratio	Lower	Upper
91	100		
106	32.3	14.9	54.9
51	10.9	0.0	33.1

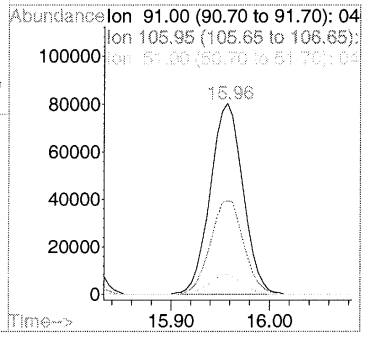


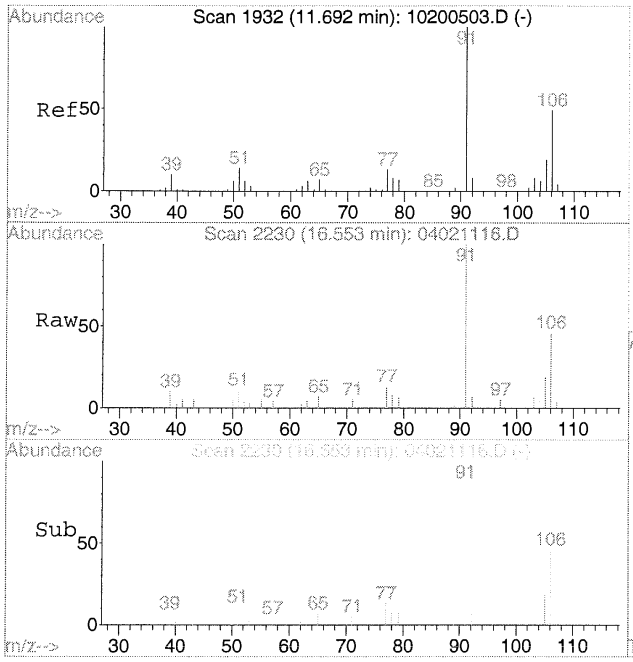


#51
m,p-Xylene
Concen: 1.56 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 91 Resp: 186174

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.7	0.0	29.6

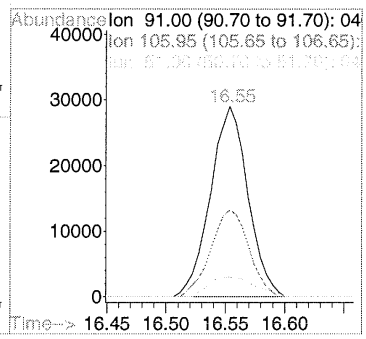




#52
o-Xylene
Concen: 0.55 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021116.D
Acq: 2 Apr 2011 9:05 pm

Tgt Ion: 91 Resp: 64090

Ion	Ratio	Lower	Upper
91	100		
106	46.4	41.0	61.6
51	12.8	19.7	29.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021118.D Vial: 15
Acq On : 2 Apr 2011 10:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 2 23:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	494501	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1770184	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1324184	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	830383	12.51	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.08%				
Target Compounds							Qvalue
14) Acetone	8.37	43	34297	0.56	ppbv	#	93
17) Methylene chloride	8.92	49	54995	1.10	ppbv		92
20) n-Hexane	9.39	57	310882	4.31	ppbv		95
26) Tetrahydrofuran	10.80	42	65813	1.60	ppbv	#	40
29) Cyclohexane*	11.03	56	419130	5.73	ppbv	#	77
31) Benzene*	11.47	78	676854	5.54	ppbv		97
34) Heptane	11.52	43	391079	4.57	ppbv	#	93
41) Toluene*	13.81	91	870509	6.52	ppbv		98
50) Ethylbenzene	15.80	91	91180	0.59	ppbv		94
51) m,p-Xylene	15.96	91	249808	2.10	ppbv		93
52) o-Xylene	16.55	91	95191	0.82	ppbv	#	88

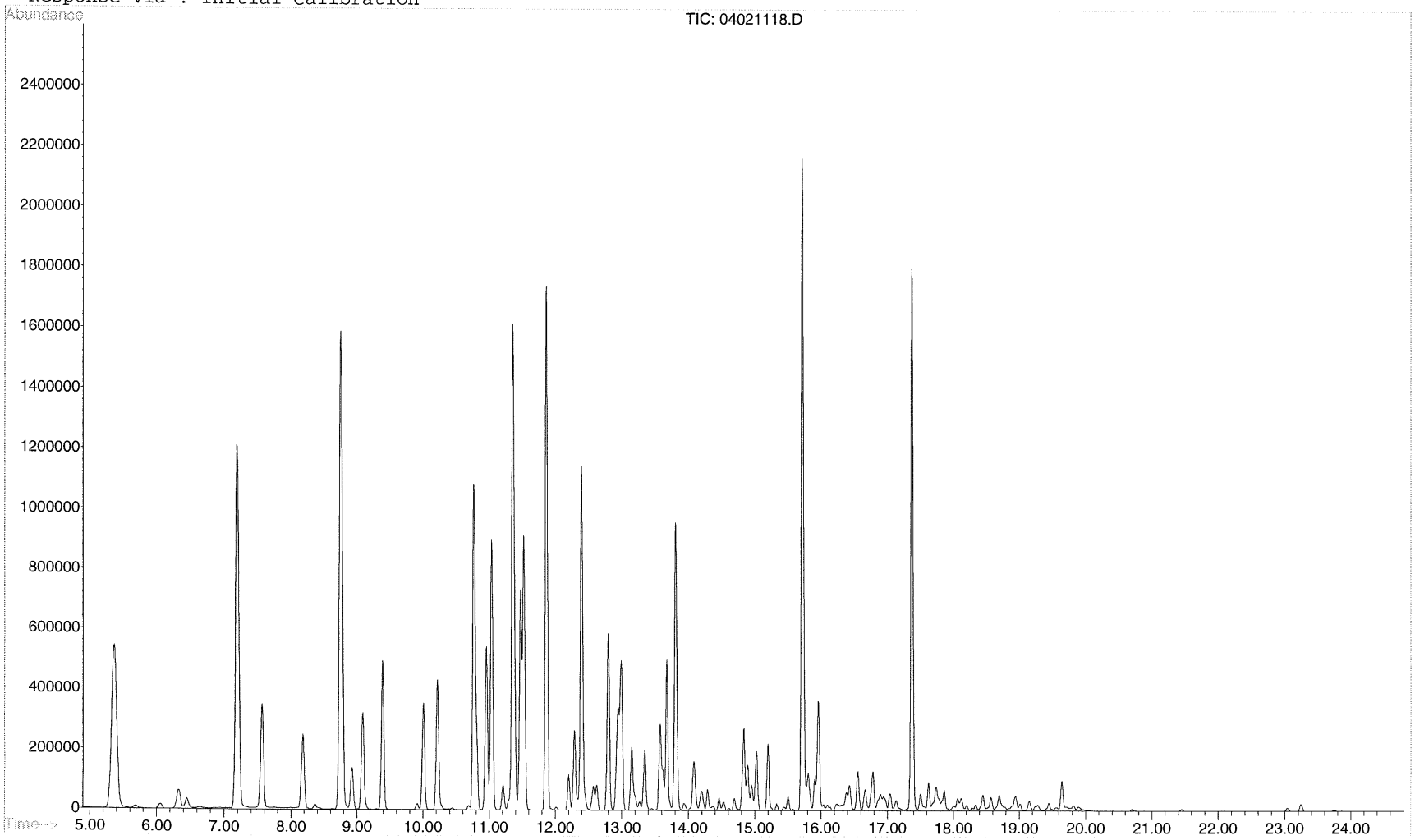
* reported only ca 4/15/11

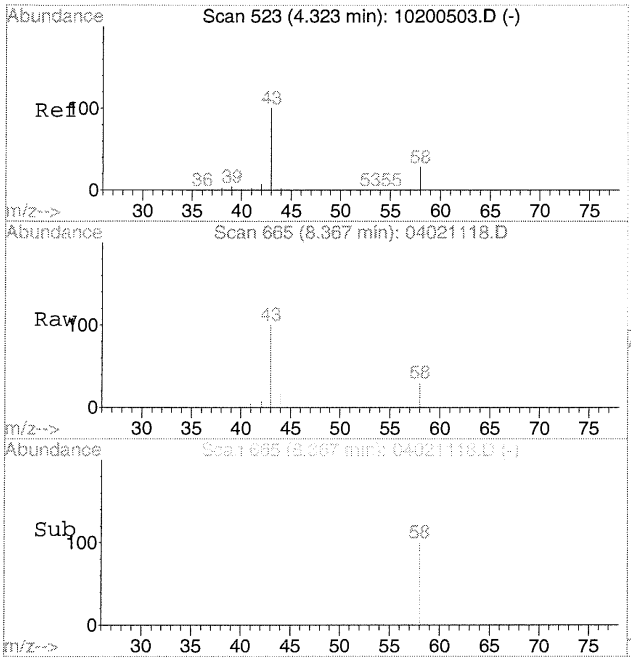
(#) = qualifier out of range (m) = manual integration
04021118.D 031611V1.M Thu Apr 14 12:22:46 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021118.D Vial: 15
Acq On : 2 Apr 2011 10:28 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 2 23:52 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

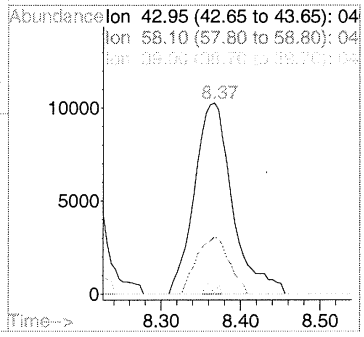


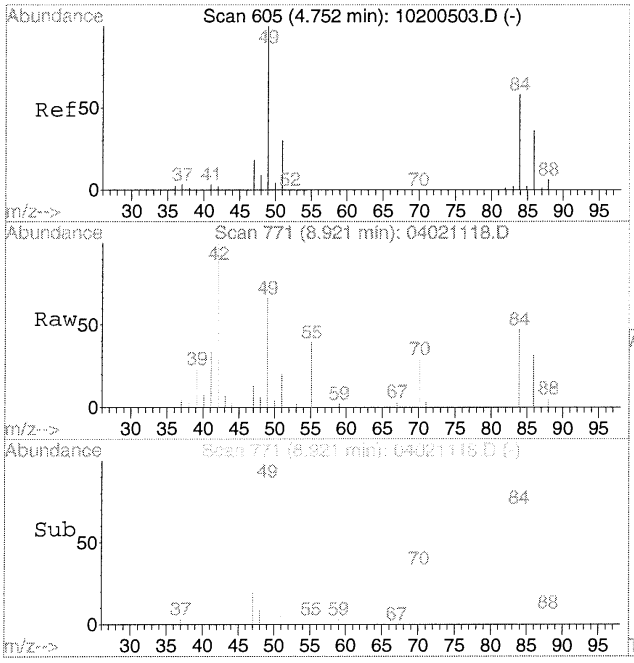


#14
Acetone
Concen: 0.56 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 43 Resp: 34297

Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.0	33.0
39	1.5	6.5	9.7#

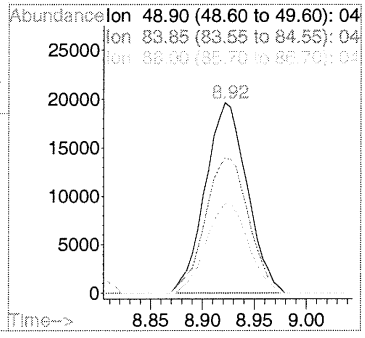


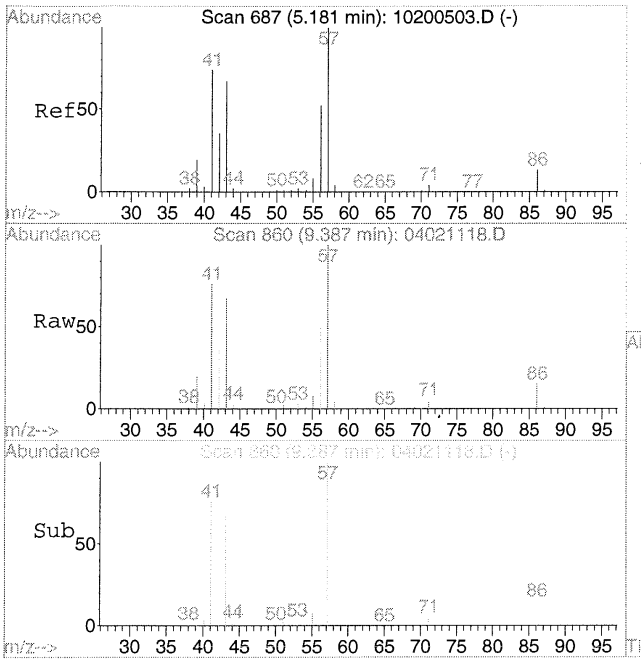


#17
Methylene chloride
Concen: 1.10 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 49 Resp: 54995

Ion	Ratio	Lower	Upper
49	100		
84	73.8	65.4	98.2
86	47.4	42.3	63.5

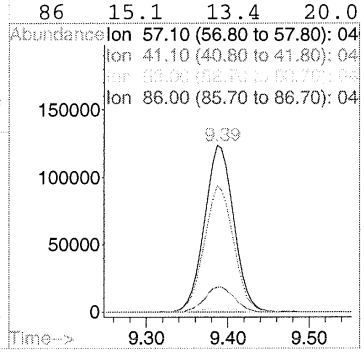


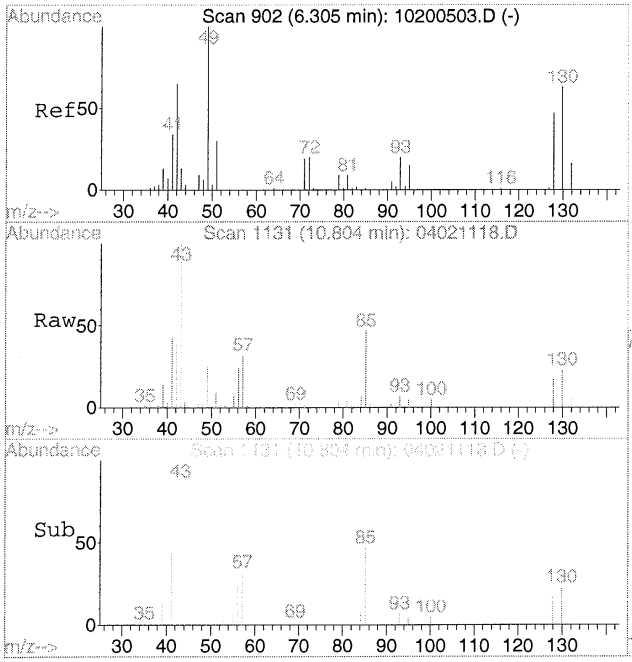


#20
n-Hexane
Concen: 4.31 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 57 Resp: 310882

Ion	Ratio	Lower	Upper
57	100		
41	76.0	57.2	85.8
53	2.4	1.8	2.8
86	15.1	13.4	20.0

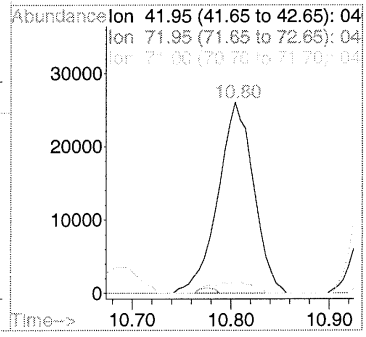


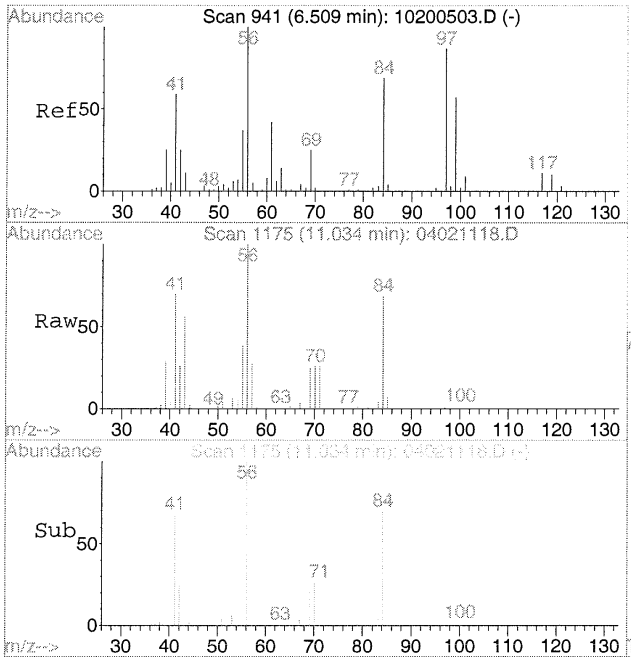


#26
Tetrahydrofuran
Concen: 1.60 ppbv
RT: 10.80 min Scan# 1131
Delta R.T. 0.05 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 42 Resp: 65813

Ion	Ratio	Lower	Upper
42	100		
72	1.2	35.0	52.6#
71	7.1	31.9	47.9#

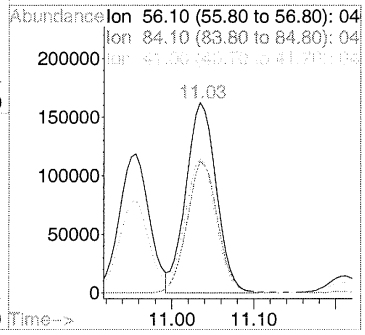


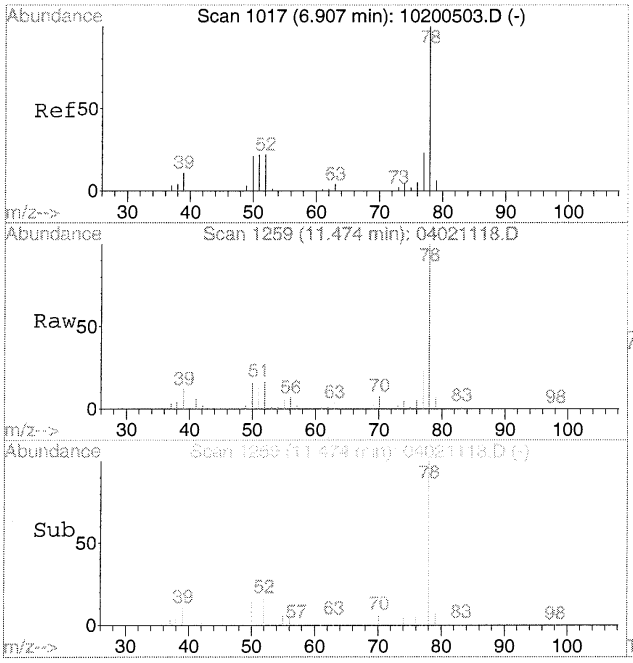


#29
Cyclohexane
Concen: 5.73 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 56 Resp: 419130

Ion	Ratio	Lower	Upper
56	100		
84	69.0	72.4	108.6#
41	71.1	43.8	65.8#

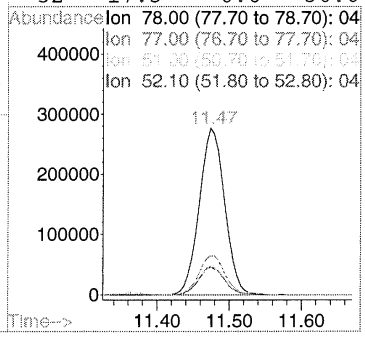


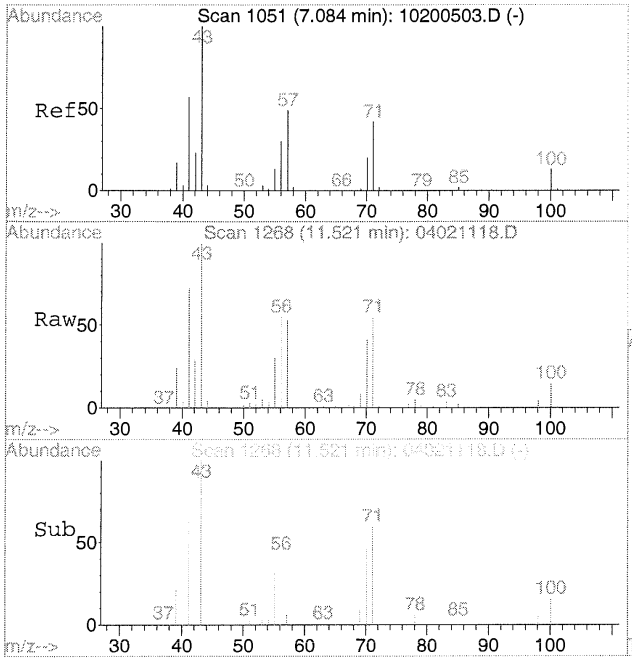


#31
Benzene
Concen: 5.54 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 78 Resp: 676854

Ion	Ratio	Lower	Upper
78	100		
77	24.2	3.7	43.7
51	18.9	0.0	36.1
52	17.3	0.0	36.0

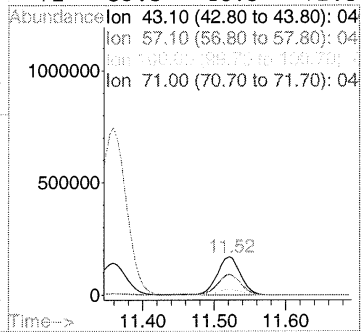


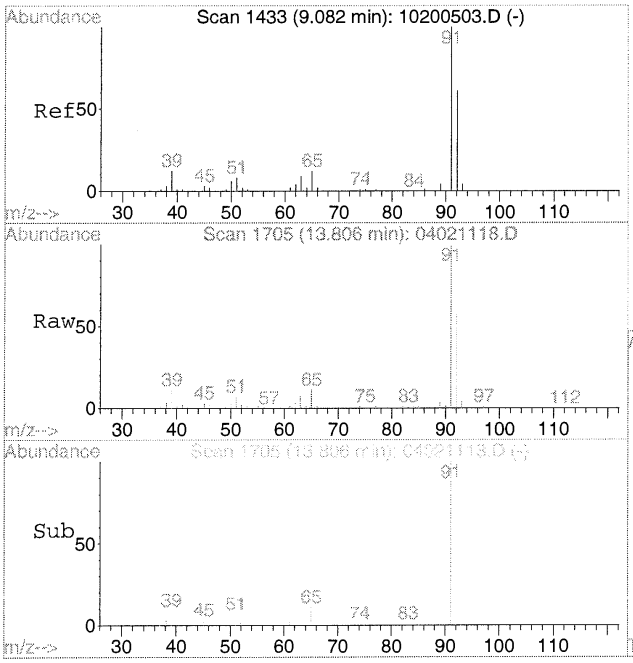


#34
Heptane
Concen: 4.57 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 43 Resp: 391079

Ion	Ratio	Lower	Upper
43	100		
57	53.1	42.2	63.4
100	14.5	17.3	25.9#
71	53.5	48.3	72.5

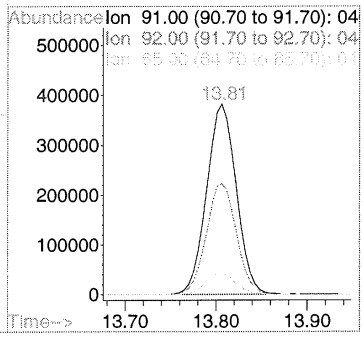


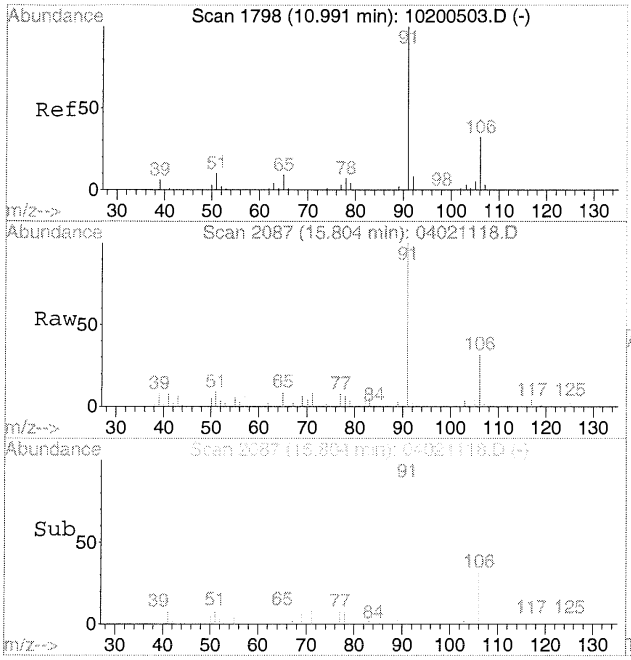


#41
Toluene
Concen: 6.52 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 91 Resp: 870509

Ion	Ratio	Lower	Upper
91	100		
92	59.1	40.5	80.5
65	11.3	0.0	31.2

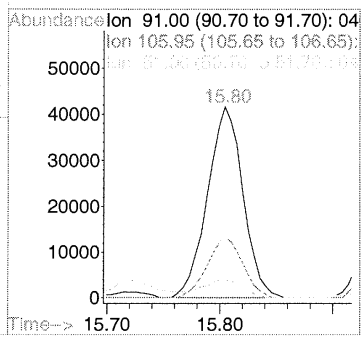


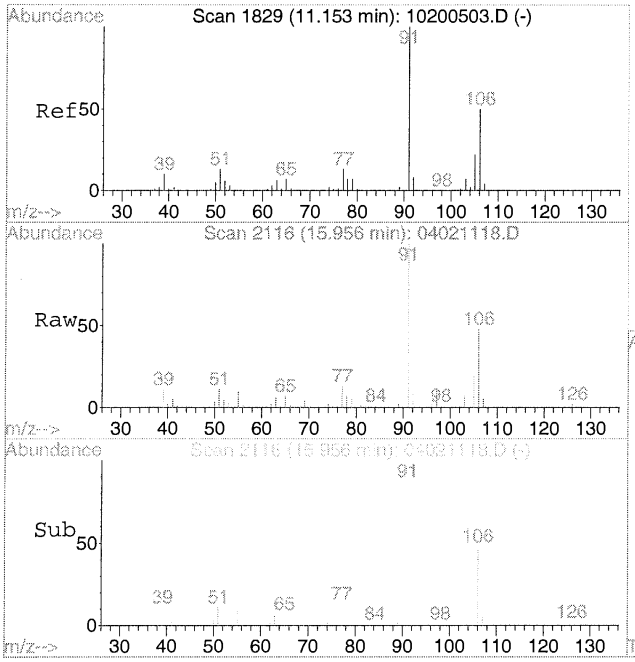


#50
Ethylbenzene
Concen: 0.59 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 91 Resp: 91180

Ion	Ratio	Lower	Upper
91	100		
106	31.6	14.9	54.9
51	10.7	0.0	33.1

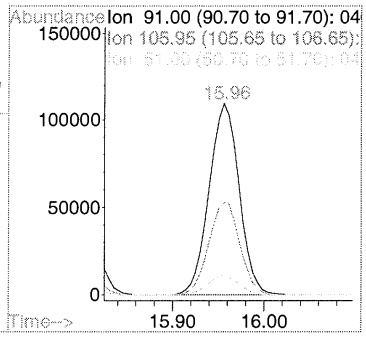


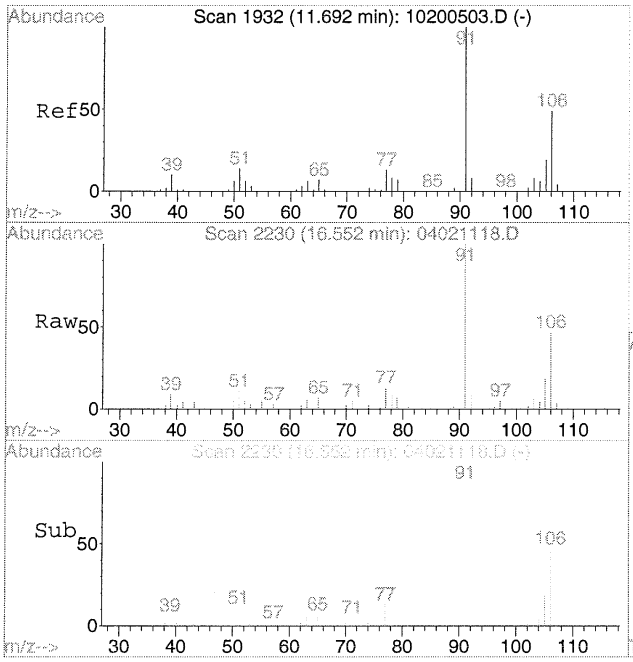


#51
m,p-Xylene
Concen: 2.10 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 91 Resp: 249808

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.7	0.0	29.6

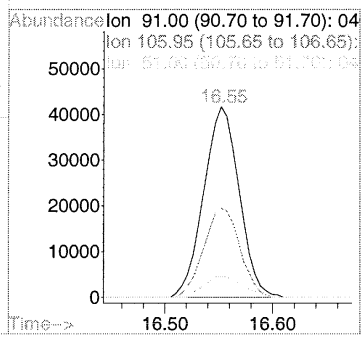




#52
o-Xylene
Concen: 0.82 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021118.D
Acq: 2 Apr 2011 10:28 pm

Tgt Ion: 91 Resp: 95191

Ion	Ratio	Lower	Upper
91	100		
106	47.7	41.0	61.6
51	11.9	19.7	29.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021119.D Vial: 16
Acq On : 2 Apr 2011 11:09 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:43 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	472099	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1691677	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1254711	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	780405	12.41	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.28%				
Target Compounds							Qvalue
20) n-Hexane *	9.39	57	459343	6.66	ppbv		95
29) Cyclohexane *	11.04	56	883958	12.66	ppbv	#	82
31) Benzene	11.47	78	110791	0.95	ppbv		91
34) Heptane	11.53	43	120368	1.47	ppbv	#	73

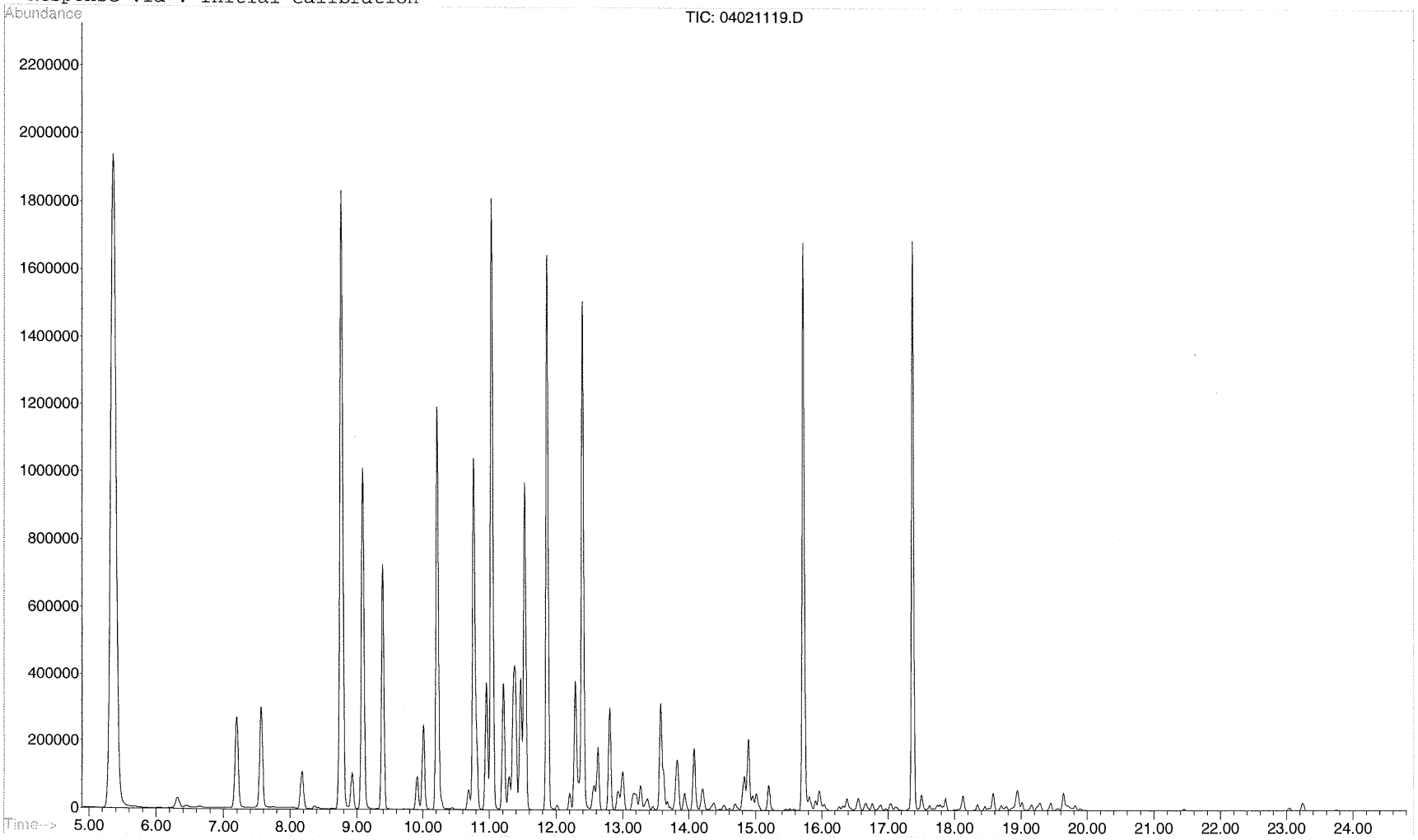
* reported only
ch 4/15/11

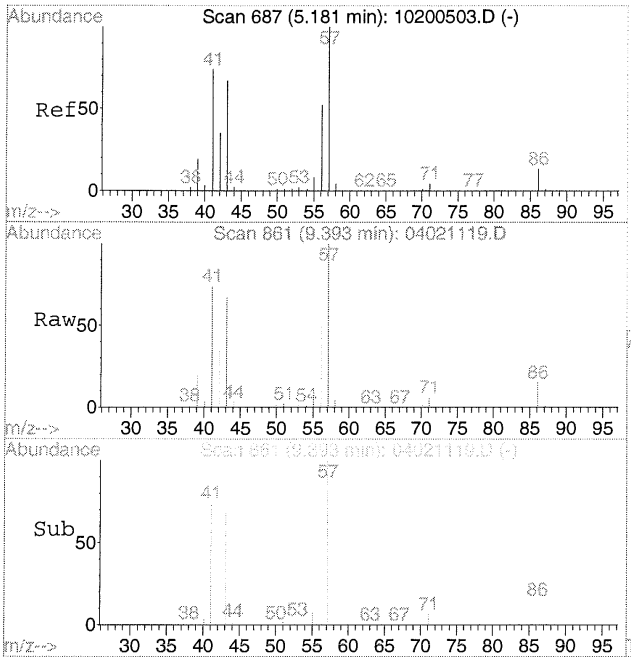
(#) = qualifier out of range (m) = manual integration
04021119.D 031611V1.M Thu Apr 14 12:22:58 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021119.D Vial: 16
Acq On : 2 Apr 2011 11:09 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:43 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

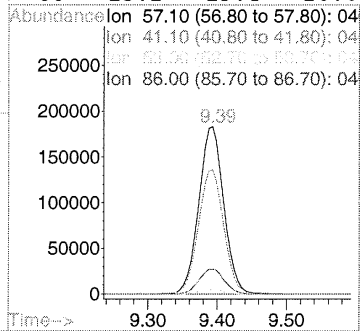


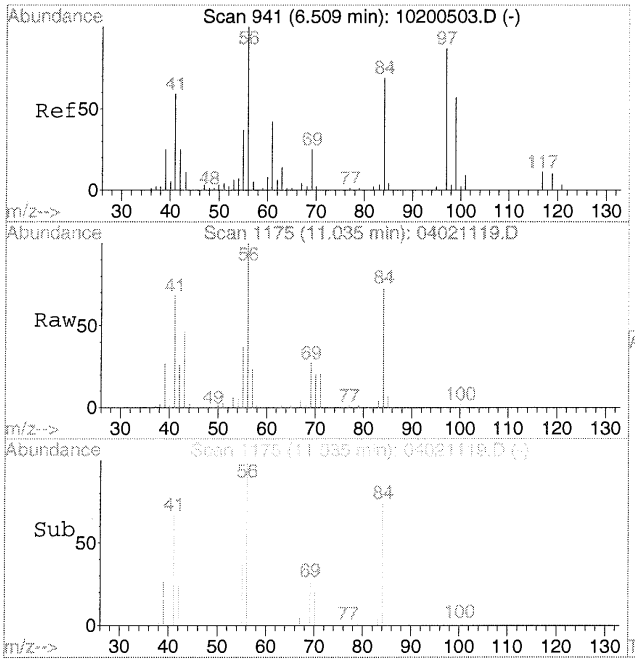


#20
n-Hexane
Concen: 6.66 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04021119.D
Acq: 2 Apr 2011 11:09 pm

Tgt Ion: 57 Resp: 459343

Ion	Ratio	Lower	Upper
57	100		
41	75.7	57.2	85.8
53	2.4	1.8	2.8
86	15.2	13.4	20.0

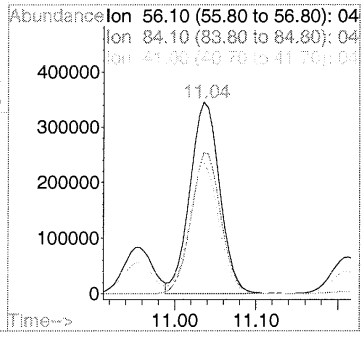


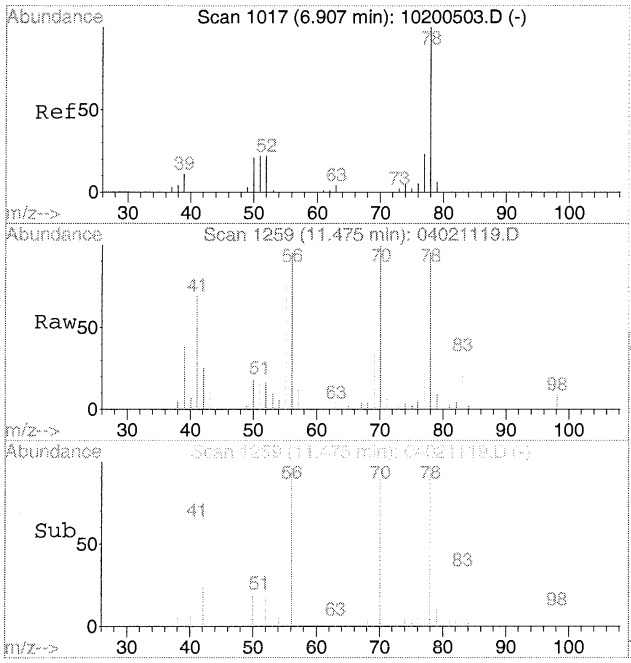


#29
Cyclohexane
Concen: 12.66 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04021119.D
Acq: 2 Apr 2011 11:09 pm

Tgt Ion: 56 Resp: 883958

Ion	Ratio	Lower	Upper
56	100		
84	73.3	72.4	108.6
41	67.8	43.8	65.8#

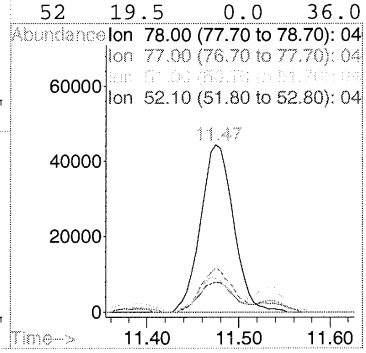


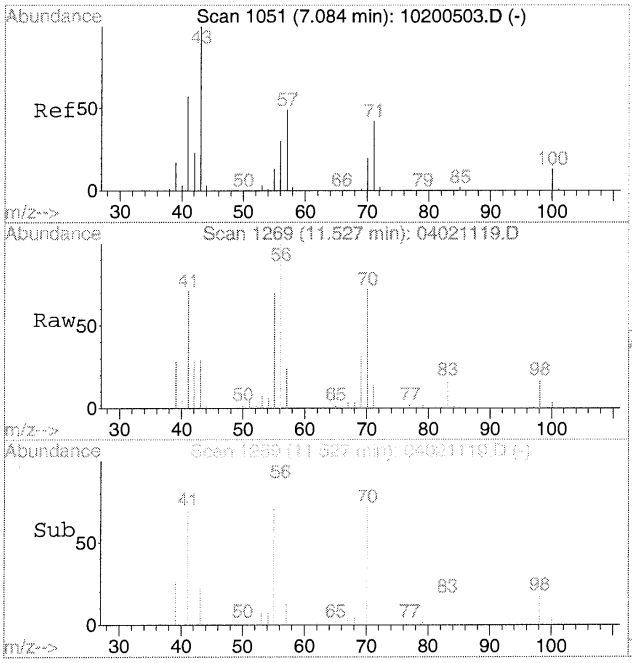


#31
Benzene
Concen: 0.95 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04021119.D
Acq: 2 Apr 2011 11:09 pm

Tgt Ion: 78 Resp: 110791

Ion	Ratio	Lower	Upper
78	100		
77	26.4	3.7	43.7
51	22.0	0.0	36.1
52	19.5	0.0	36.0

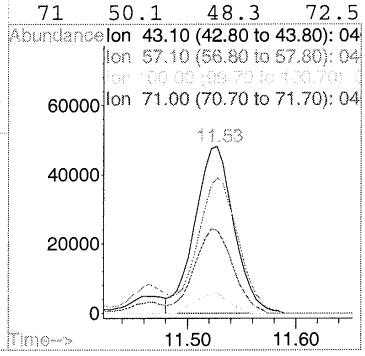




#34
Heptane
Concen: 1.47 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04021119.D
Acq: 2 Apr 2011 11:09 pm

Tgt Ion: 43 Resp: 120368

Ion	Ratio	Lower	Upper
43	100		
57	84.2	42.2	63.4#
100	10.2	17.3	25.9#
71	50.1	48.3	72.5



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 3 1:16 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

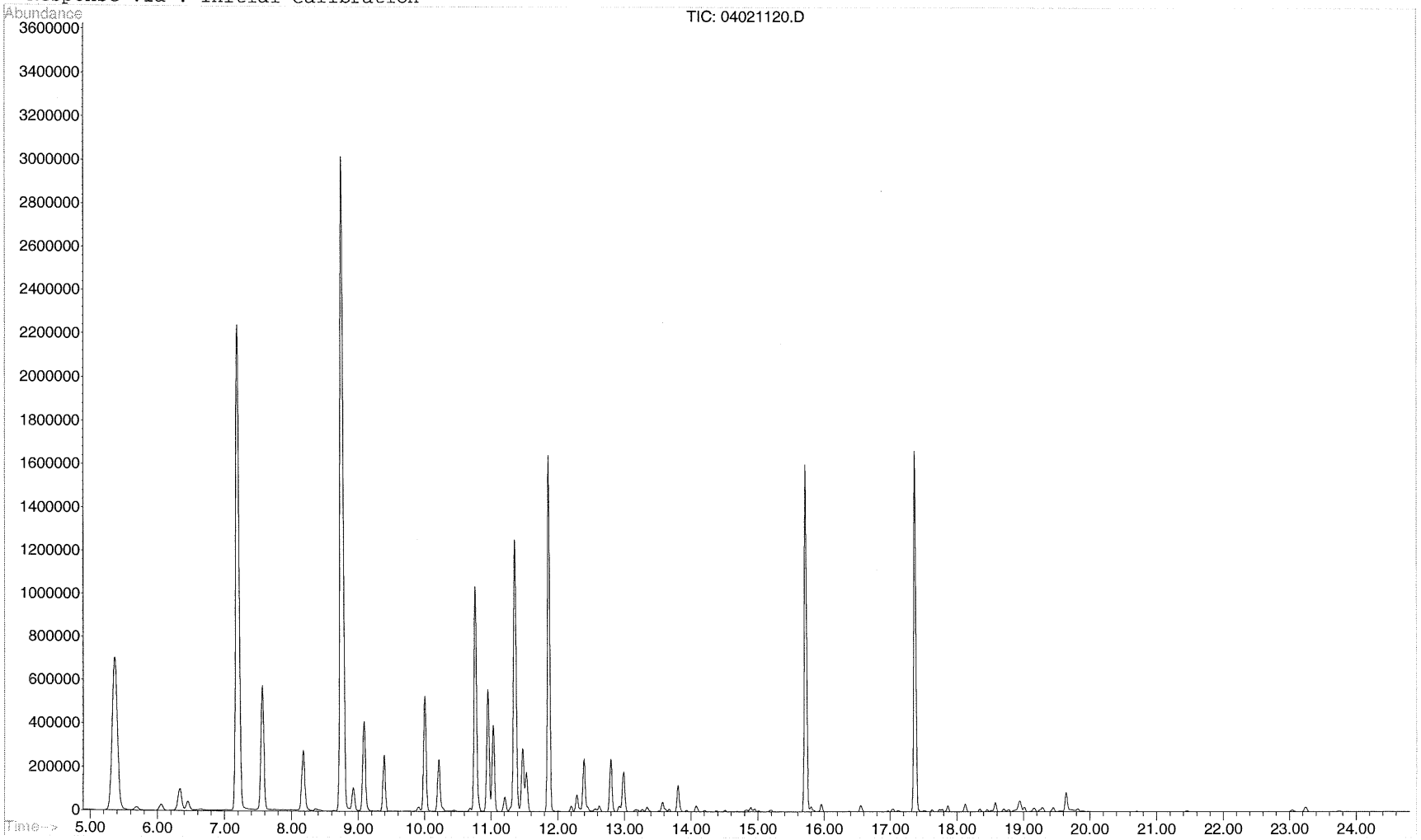
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	472126	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1672891	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1213139	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	759314	12.49	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.92%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	160461	2.33	ppbv		93
29) Cyclohexane	11.03	56	202199	2.90	ppbv	#	82
31) Benzene	11.48	78	283828	2.43	ppbv		97
41) Toluene	13.80	91	111870	0.89	ppbv		98

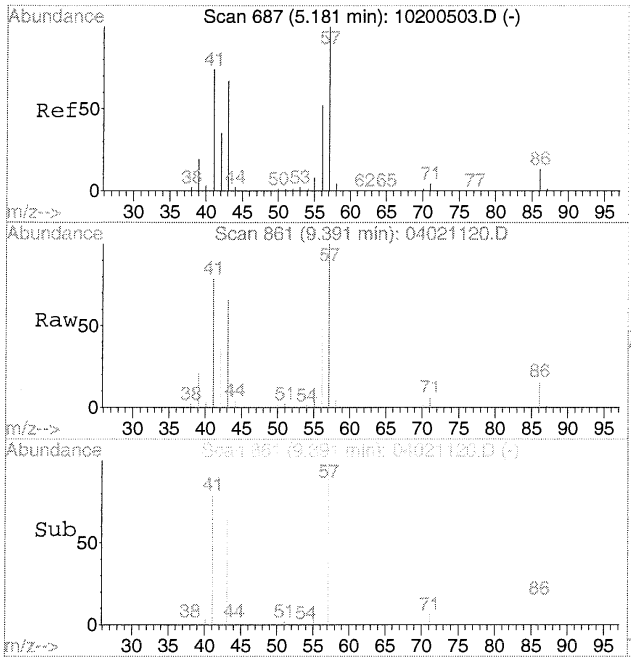
(#) = qualifier out of range (m) = manual integration
04021120.D 031611V1.M Thu Apr 14 12:23:11 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 3 1:16 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

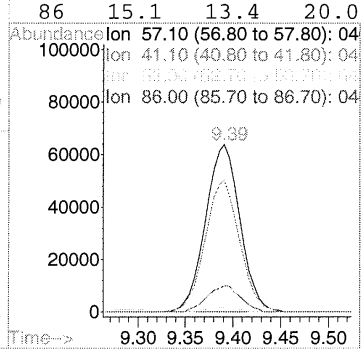


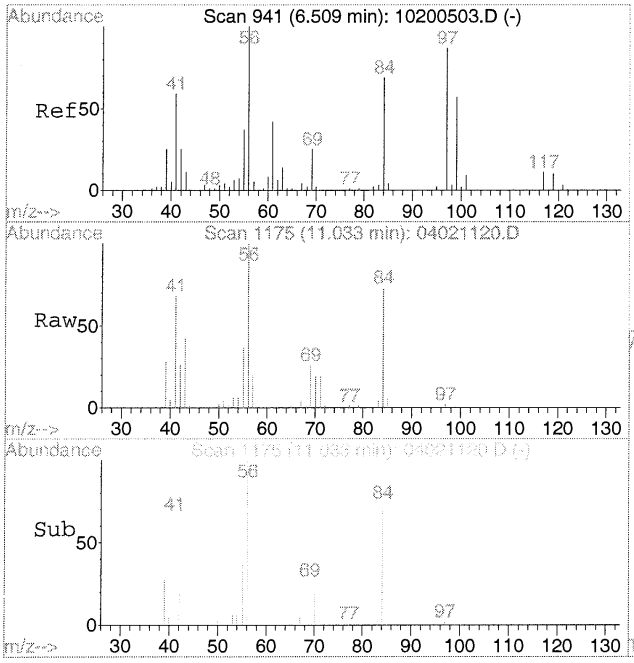


#20
n-Hexane
Concen: 2.33 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04021120.D
Acq: 2 Apr 2011 11:51 pm

Tgt Ion: 57 Resp: 160461

Ion	Ratio	Lower	Upper
57	100		
41	78.6	57.2	85.8
53	2.3	1.8	2.8
86	15.1	13.4	20.0

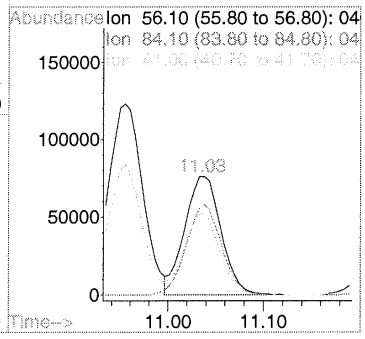


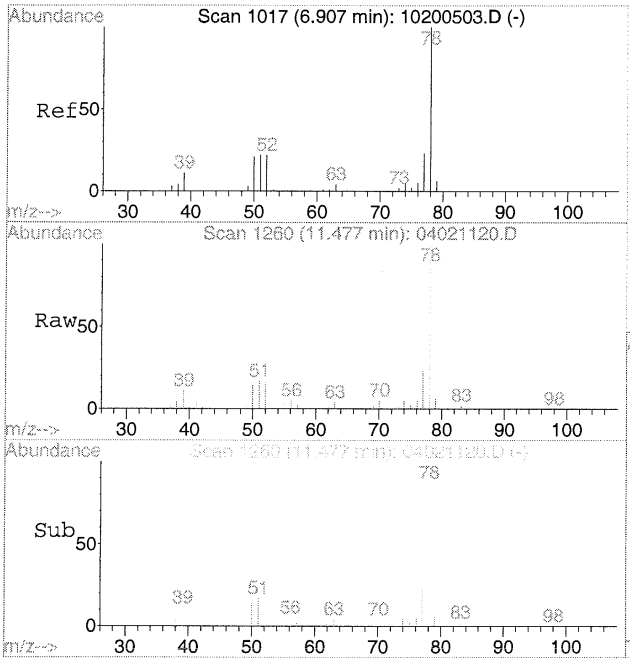


#29
Cyclohexane
Concen: 2.90 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04021120.D
Acq: 2 Apr 2011 11:51 pm

Tgt Ion: 56 Resp: 202199

Ion	Ratio	Lower	Upper
56	100		
84	73.6	72.4	108.6
41	67.3	43.8	65.8#

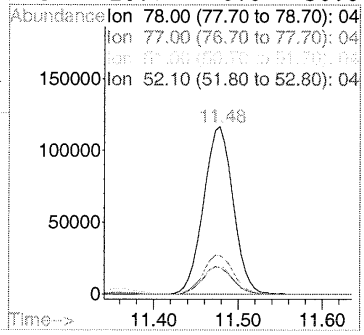


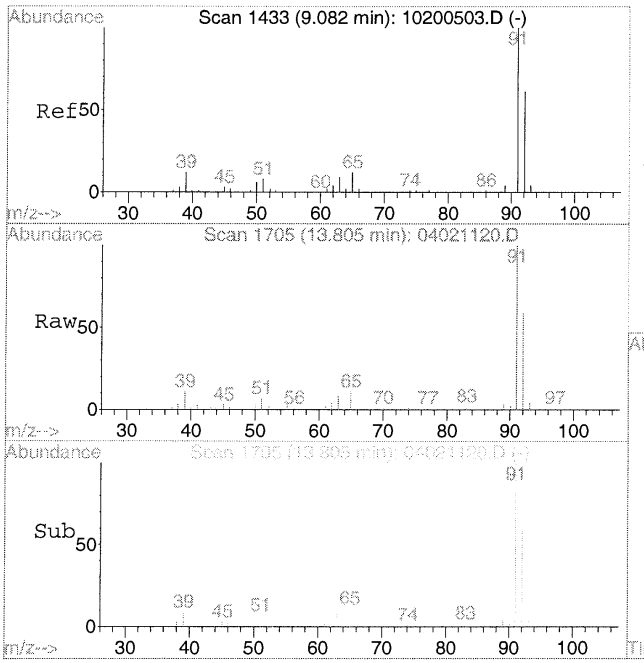


#31
Benzene
Concen: 2.43 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04021120.D
Acq: 2 Apr 2011 11:51 pm

Tgt Ion: 78 Resp: 283828

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	18.6	0.0	36.1
52	16.7	0.0	36.0

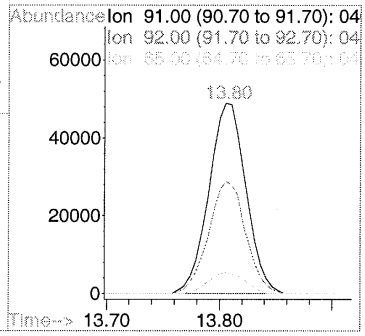




#41
Toluene
Concen: 0.89 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021120.D
Acq: 2 Apr 2011 11:51 pm

Tgt Ion: 91 Resp: 111870

Ion	Ratio	Lower	Upper
91	100		
92	58.9	40.5	80.5
65	11.0	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

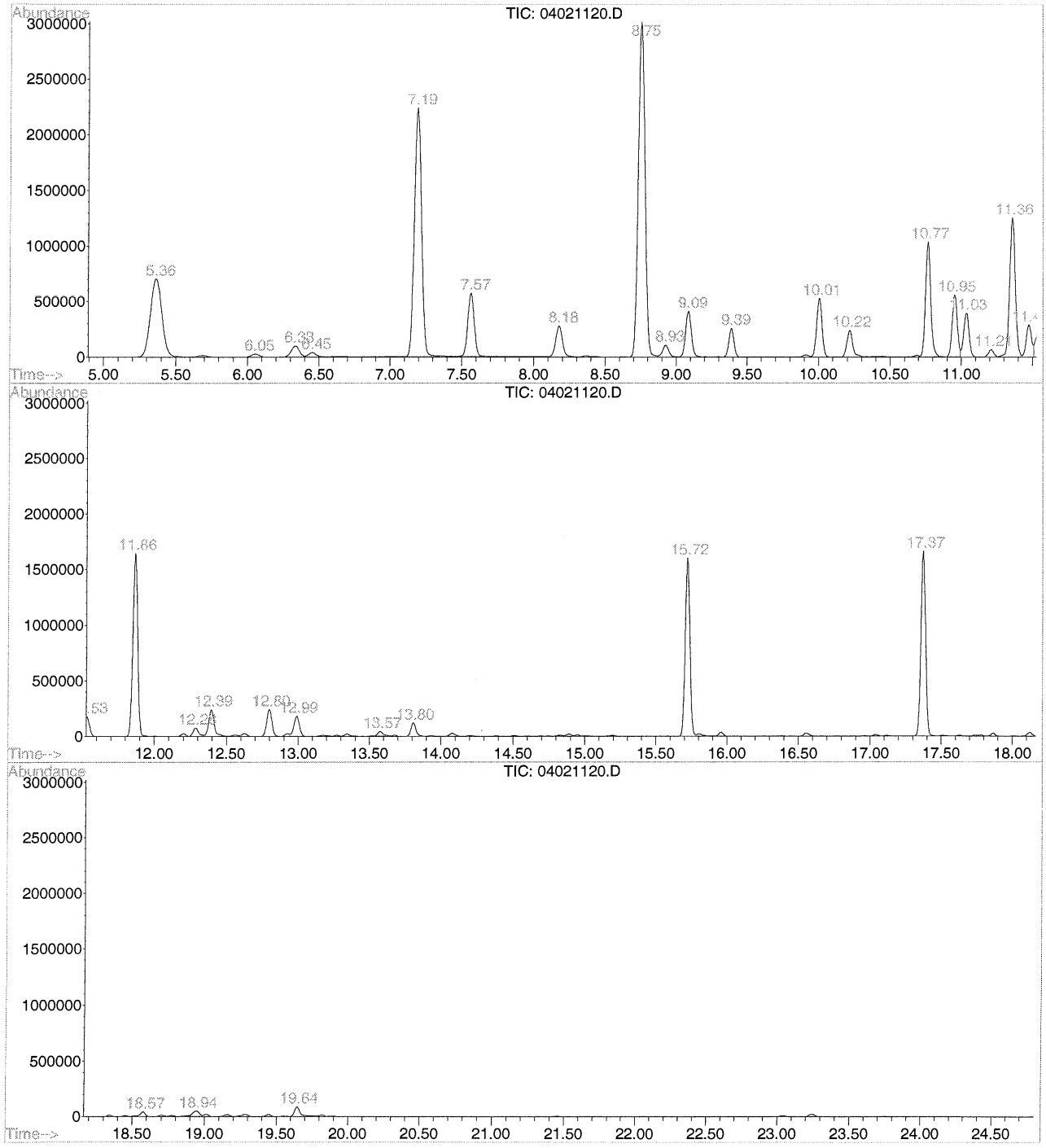
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	64	91	129	rBV	702820	3850766	39.12%	7.280%
2	6.054	210	223	236	rBV3	28804	107203	1.09%	0.203%
3	6.331	260	276	289	rBV3	99173	392703	3.99%	0.742%
4	6.451	289	299	315	rVB2	39720	138877	1.41%	0.263%
5	7.194	424	441	471	rBV	2237368	7838568	79.64%	14.820%
6	7.565	497	512	532	rVB	568756	1752464	17.80%	3.313%
7	8.177	615	629	649	rVB	276103	899501	9.14%	1.701%
8	8.753	723	739	761	rBV	3018426	9842641	100.00%	18.609%
9	8.925	762	772	788	rVV	107369	318425	3.24%	0.602%
10	9.087	790	803	822	rVB	410407	1167830	11.87%	2.208%
11	9.391	849	861	873	rVB2	257523	644181	6.54%	1.218%
12	10.008	968	979	996	rVB	527399	1396443	14.19%	2.640%
13	10.217	1007	1019	1038	rBV	238303	662124	6.73%	1.252%
14	10.766	1113	1124	1141	rVB	1036049	2663457	27.06%	5.036%
15	10.954	1148	1160	1168	rBV	557532	1437995	14.61%	2.719%
16	11.033	1168	1175	1190	rVB2	393914	1020033	10.36%	1.928%
17	11.211	1198	1209	1217	rBV3	66635	173255	1.76%	0.328%
18	11.357	1217	1237	1250	rVV	1255378	3455124	35.10%	6.532%
19	11.472	1250	1259	1266	rVV	287454	773642	7.86%	1.463%
20	11.530	1266	1270	1282	rVB3	178899	411851	4.18%	0.779%
21	11.865	1323	1334	1347	rBV	1644182	3751241	38.11%	7.092%
22	12.283	1405	1414	1425	rVV4	75233	204704	2.08%	0.387%
23	12.393	1426	1435	1454	rVB2	238190	630509	6.41%	1.192%
24	12.795	1501	1512	1527	rBB2	240537	615686	6.26%	1.164%
25	12.989	1540	1549	1561	rVB2	181726	488472	4.96%	0.924%
26	13.575	1653	1661	1668	rBV3	41469	102470	1.04%	0.194%
27	13.805	1696	1705	1721	rBB	121057	297212	3.02%	0.562%
28	15.719	2060	2071	2083	rBV	1601549	3672817	37.32%	6.944%
29	17.372	2373	2387	2408	rBV	1663673	3706314	37.66%	7.007%
30	18.575	2609	2617	2626	rVB	44016	100956	1.03%	0.191%
31	18.941	2672	2687	2695	rBV5	47098	154833	1.57%	0.293%
32	19.642	2812	2821	2831	rBV	87768	220945	2.24%	0.418%

Sum of corrected areas: 52893242

04021120.D 031611V1.M Thu Apr 14 12:23:15 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040211\04021120.D
Operator : Michael Truchan/Rachel Hill
Acquired : 2 Apr 2011 11:51 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-016B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 2
Quant File :031611V1.RES (RTE Integrator)



04021120.D 031611V1.M Thu Apr 14 12:23:16 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	18.07 ppbv	3850770	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane $$ n-Butane $$ Diethyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	1.84 ppbv	392703	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	64
2	Butane	58	C4H10	000106-97-8	53
3	Isobutane	58	C4H10	000075-28-5	9
4	Propane, 1-nitro-	89	C3H7NO2	000108-03-2	9
5	Diazene, dimethyl-	58	C2H6N2	000503-28-6	4

****

Peak Number 3 Propane, 2,2-dimethyl- $$ tert Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.45	0.65 ppbv	138877	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2,2-dimethyl- $$ tert-Pent	72	C5H12	000463-82-1	38
2	Propane, 2,2-dimethyl-	72	C5H12	000463-82-1	38
3	Propane, 2,2-dimethyl-	72	C5H12	000463-82-1	9
4	Azetidine	57	C3H7N	000503-29-7	5
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	4

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	36.79 ppbv	7838570	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Cyclobutane $$ Tetramethylene $$ UN	56	C4H8	000287-23-0	9
5	1-Butene	56	C4H8	000106-98-9	9

****

Peak Number 5 Pentane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	8.22 ppbv	1752460	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

****

Peak Number 6 Butane, 2,2-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	4.22 ppbv	899501	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
4	Butane, 2-bromo-2-methyl-	150	C5H11Br	000507-36-8	42
5	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	39

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Butane, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	46.19 ppbv	9842640	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	56
5	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	52

****

Peak Number 8 Cyclopentane $$ Pentamethylene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	1.49 ppbv	318425	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	64
2	1-Pentene	70	C5H10	000109-67-1	64
3	Cyclopentane	70	C5H10	000287-92-3	59
4	1-Pentene	70	C5H10	000109-67-1	43
5	Cyclobutane, methyl- $$ Methylcyclo	70	C5H10	000598-61-8	33

****

Peak Number 9 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	5.48 ppbv	1167830	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	6.55 ppbv	1396440	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	74
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 11 Cyclopentane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	3.11 ppbv	662124	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	90
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	53

****

Peak Number 12 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	6.75 ppbv	1438000	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclopentane, 1,1-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	0.81 ppbv	173255	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	45
3	2-Ethylthiolane, S,S-dioxide	148	C6H12O2S	010178-59-3	40
4	Cyclopentane, 1,1,3,4-tetramethyl-,	126	C9H18	053907-60-1	40
5	1-Heptene, 6-methyl- $$ 6-Methyl-1-	112	C8H16	005026-76-6	40

****

Peak Number 14 Hexane, 2,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	11.51 ppbv	3455120	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78

****

Peak Number 15 Cyclopentane, 1,2-dimethyl-, c Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.53	1.37 ppbv	411851	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	91
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	90
3	Isopropylcyclobutane $$ Cyclobutane	98	C7H14	000872-56-0	83
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	81
5	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	80

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	0.68 ppbv	204704	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	40
2	1-Pentanol, 2,2-dimethyl-	116	C7H16O	002370-12-9	39
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	38
4	1-Pentanol, 3-methyl- $$ 2-Ethyl-4-	102	C6H14O	000589-35-5	38
5	1-Octanol	130	C8H18O	000111-87-5	37

****

Peak Number 17 Cyclohexane, methyl- $$ Cycloh Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	2.10 ppbv	630509	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	3-Penten-2-one, 4-methyl- $$ Aceton	98	C6H10O	000141-79-7	58

****

Peak Number 18 Pentane, 2,3,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	2.05 ppbv	615686	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	72
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
4	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56

Data File : C:\HPCHEM\1\DATA\040211\04021120.D Vial: 2
Acq On : 2 Apr 2011 11:51 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	1.63 ppbv	488472	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	83
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	72
3	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59
4	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	59
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	53

****

Peak Number 20 Phenol $$ Baker's P and S Liqu Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.64	0.75 ppbv	220945	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol $$ Baker's P and S Liquid an	94	C6H6O	000108-95-2	93
2	Phenol	94	C6H6O	000108-95-2	91
3	Phenol	94	C6H6O	000108-95-2	90
4	Phosphonic acid, (p-hydroxyphenyl)-	174	C6H7O4P	033795-18-5	90
5	Phenol	94	C6H6O	000108-95-2	86

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 2 Apr 2011 11:51 pm
Data File: C:\HPCHEM\1\DATA\040211\04021120.D
Name: 1103389-016B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	18.1	ppbv	3850770	ISTD01	10.77	2663460	12.5
Butane $$ n-Butane $	6.33	1.8	ppbv	392703	ISTD01	10.77	2663460	12.5
Propane, 2,2-dimethy	6.45	0.7	ppbv	138877	ISTD01	10.77	2663460	12.5
Butane, 2-methyl-	7.19	36.8	ppbv	7838570	ISTD01	10.77	2663460	12.5
Pentane	7.57	8.2	ppbv	1752460	ISTD01	10.77	2663460	12.5
Butane, 2,2-dimethyl	8.18	4.2	ppbv	899501	ISTD01	10.77	2663460	12.5
Butane, 2,3-dimethyl	8.75	46.2	ppbv	9842640	ISTD01	10.77	2663460	12.5
Cyclopentane $$ Pent	8.93	1.5	ppbv	318425	ISTD01	10.77	2663460	12.5
Pentane, 3-methyl-	9.09	5.5	ppbv	1167830	ISTD01	10.77	2663460	12.5
Pentane, 2,4-dimethy	10.01	6.6	ppbv	1396440	ISTD01	10.77	2663460	12.5
Cyclopentane, methyl	10.22	3.1	ppbv	662124	ISTD01	10.77	2663460	12.5
Pentane, 2,3-dimethy	10.95	6.7	ppbv	1438000	ISTD01	10.77	2663460	12.5
Cyclopentane, 1,1-di	11.21	0.8	ppbv	173255	ISTD01	10.77	2663460	12.5
Hexane, 2,2-dimethyl	11.36	11.5	ppbv	3455120	ISTD02	11.86	3751240	12.5
Cyclopentane, 1,2-di	11.53	1.4	ppbv	411851	ISTD02	11.86	3751240	12.5
Cyclopentane, 1,1-di	12.28	0.7	ppbv	204704	ISTD02	11.86	3751240	12.5
Cyclohexane, methyl-	12.39	2.1	ppbv	630509	ISTD02	11.86	3751240	12.5
Pentane, 2,3,4-trime	12.80	2.1	ppbv	615686	ISTD02	11.86	3751240	12.5
Pentane, 2,3,3-trime	12.99	1.6	ppbv	488472	ISTD02	11.86	3751240	12.5
Phenol $$ Baker's P	19.64	0.8	ppbv	220945	ISTD03	15.72	3672820	12.5

04021120.D 031611V1.M Thu Apr 14 12:23:17 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:43 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

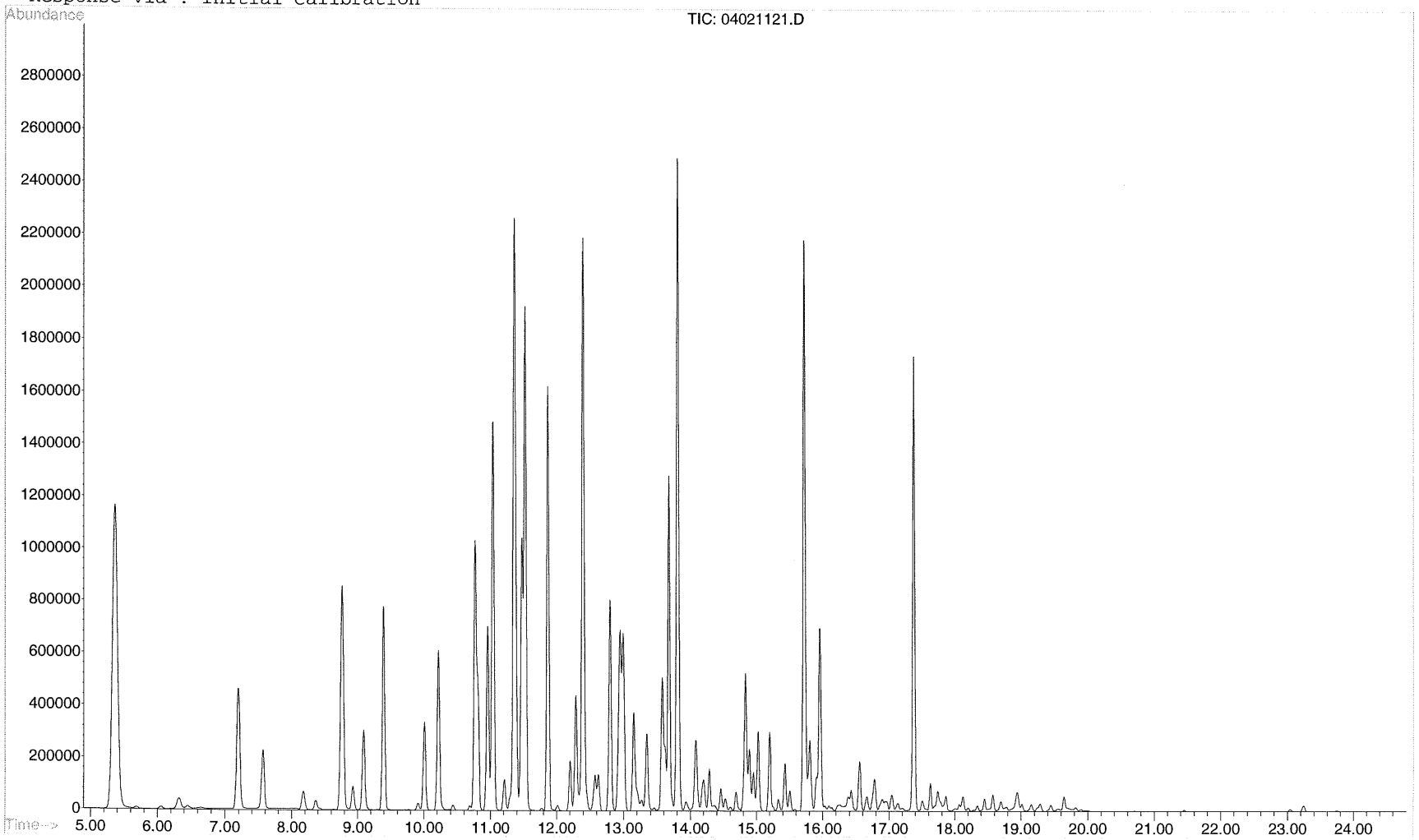
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	464879	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1645746	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1250705	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	783194	12.49	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.92%				
Target Compounds							Qvalue
14) Acetone	8.37	43	73918	1.29	ppbv	#	95
20) n-Hexane	9.39	57	485039	7.14	ppbv		95
24) 2-Butanone	10.44	43	39800	0.67	ppbv	#	84
29) Cyclohexane	11.04	56	684319	9.96	ppbv	#	76
31) Benzene	11.48	78	952590	8.29	ppbv		96
34) Heptane	11.52	43	878309	11.05	ppbv	#	93
41) Toluene	13.80	91	2253173	18.17	ppbv		99
50) Ethylbenzene	15.80	91	232610	1.60	ppbv		94
51) m,p-Xylene	15.95	91	513921	4.56	ppbv		93
52) o-Xylene	16.55	91	145670	1.33	ppbv	#	88

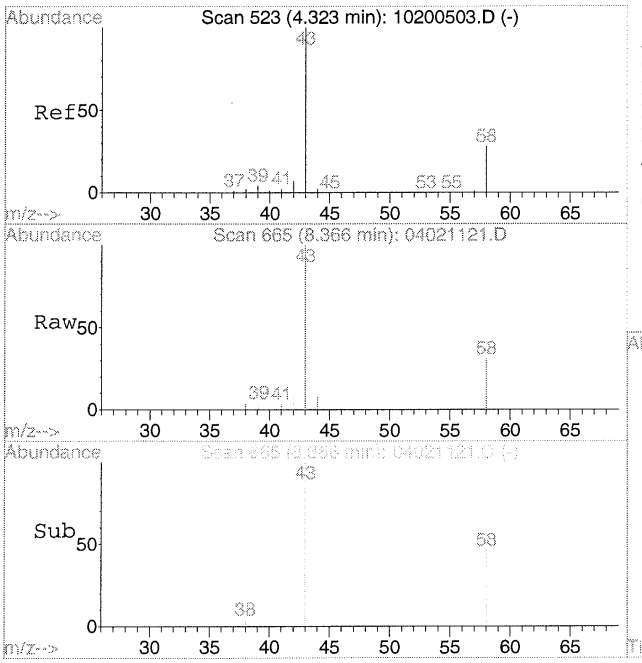
(#) = qualifier out of range (m) = manual integration
04021121.D 031611V1.M Thu Apr 14 12:23:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 5 9:43 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

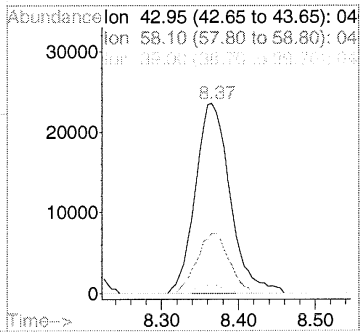


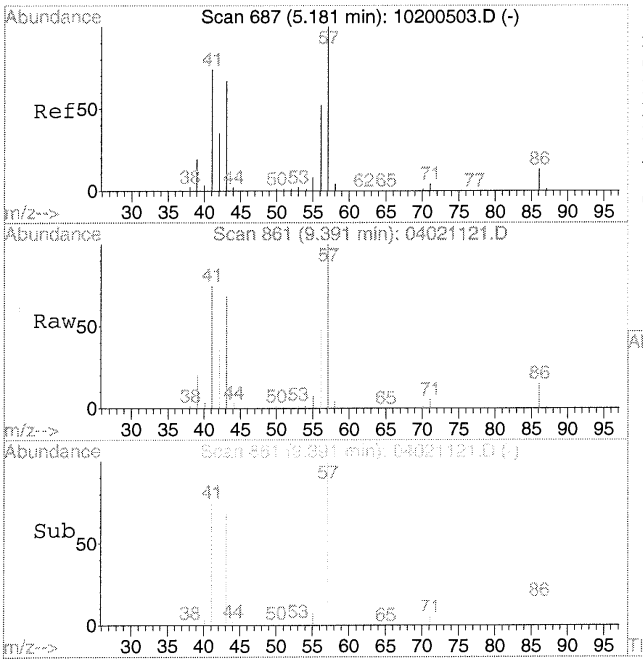


#14
Acetone
Concen: 1.29 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 43 Resp: 73918

Ion	Ratio	Lower	Upper
43	100		
58	29.0	22.0	33.0
39	3.6	6.5	9.7#

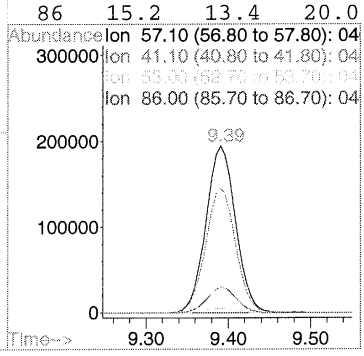


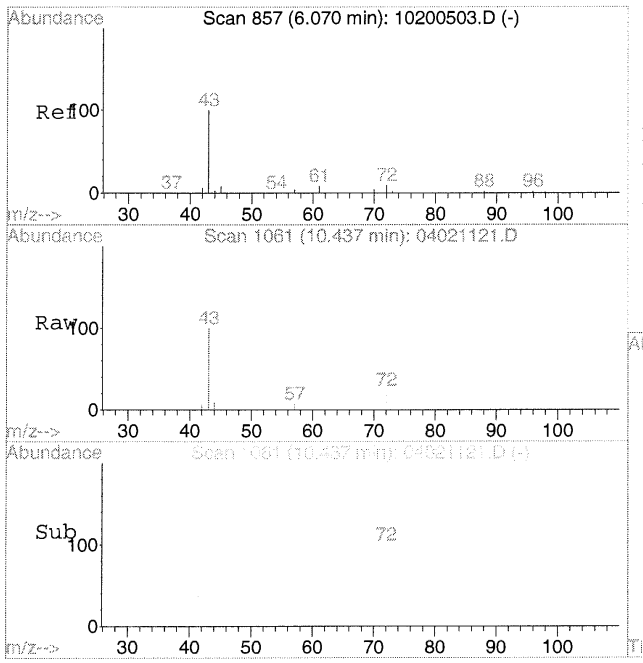


#20
n-Hexane
Concen: 7.14 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 57 Resp: 485039

Ion	Ratio	Lower	Upper
57	100		
41	76.0	57.2	85.8
53	2.4	1.8	2.8
86	15.2	13.4	20.0

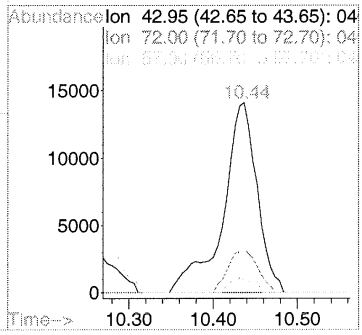


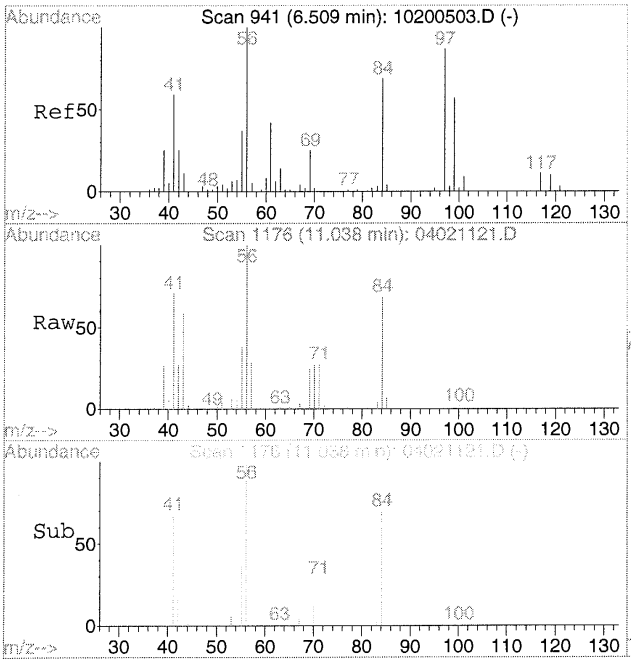


#24
2-Butanone
Concen: 0.67 ppbv
RT: 10.44 min Scan# 1061
Delta R.T. 0.02 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 43 Resp: 39800

Ion	Ratio	Lower	Upper
43	100		
72	19.6	23.4	35.2#
57	5.4	6.9	10.3#

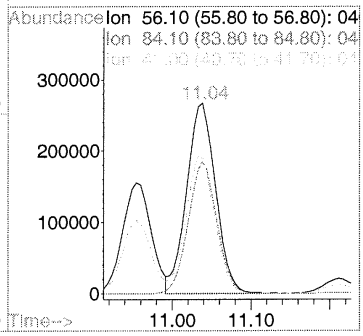


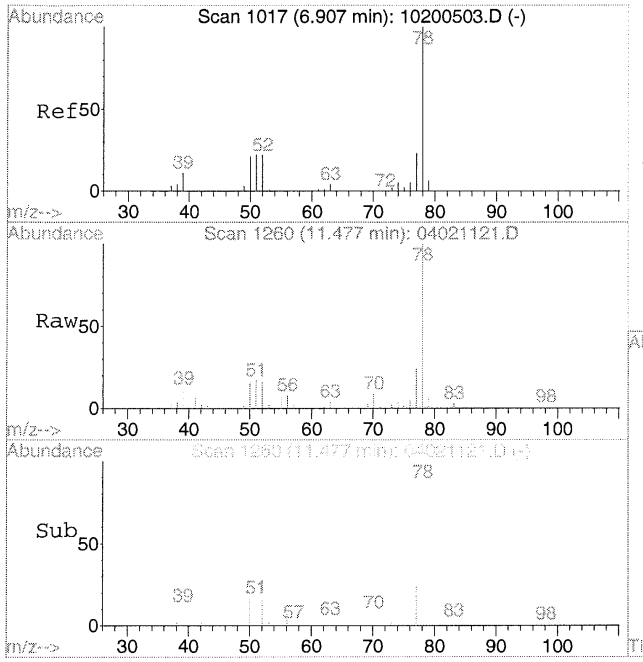


#29
Cyclohexane
Concen: 9.96 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 56 Resp: 684319

Ion	Ratio	Lower	Upper
56	100		
84	68.2	72.4	108.6#
41	72.3	43.8	65.8#

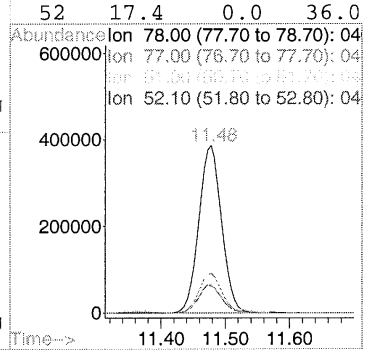


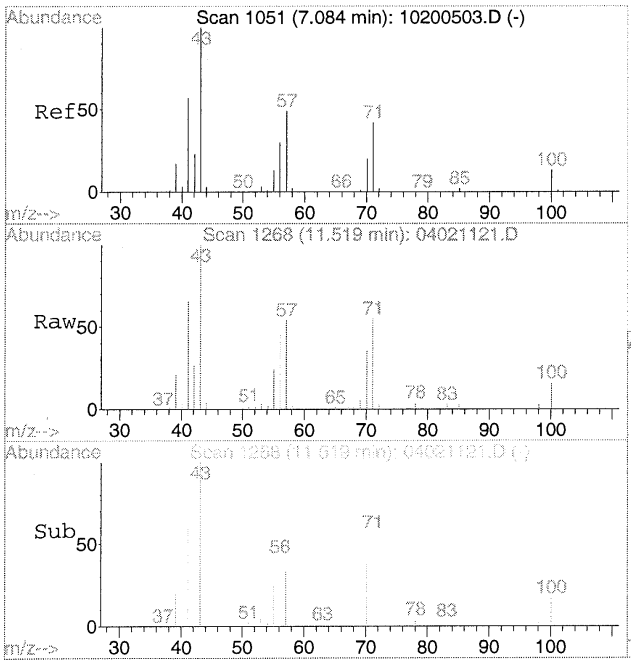


#31
Benzene
Concen: 8.29 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 78 Resp: 952590

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	19.2	0.0	36.1
52	17.4	0.0	36.0

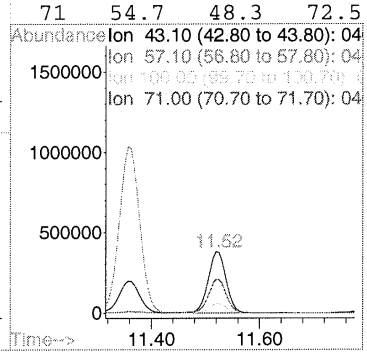


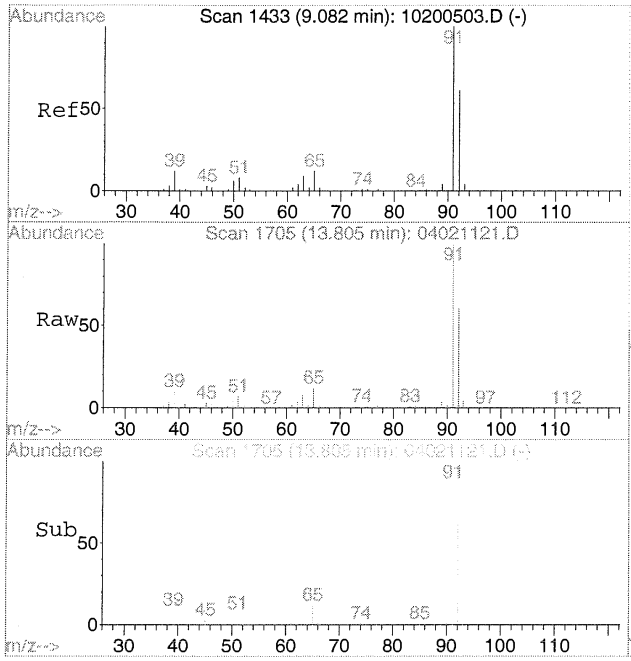


#34
Heptane
Concen: 11.05 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 43 Resp: 878309

Ion	Ratio	Lower	Upper
43	100		
57	55.2	42.2	63.4
100	15.1	17.3	25.9#
71	54.7	48.3	72.5

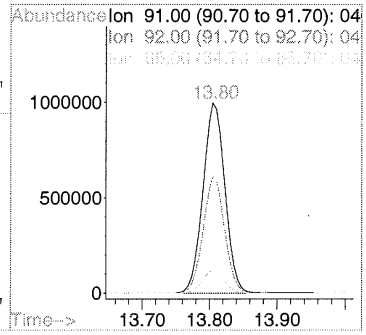


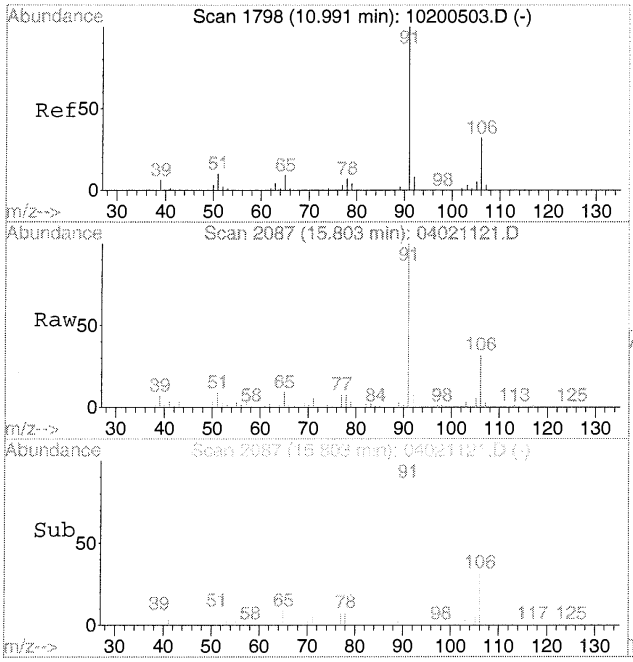


#41
Toluene
Concen: 18.17 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 2253173

Ion	Ratio	Lower	Upper
91	100		
92	60.1	40.5	80.5
65	11.6	0.0	31.2

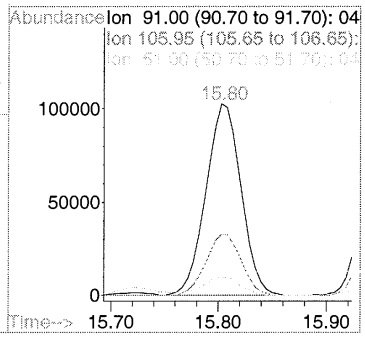


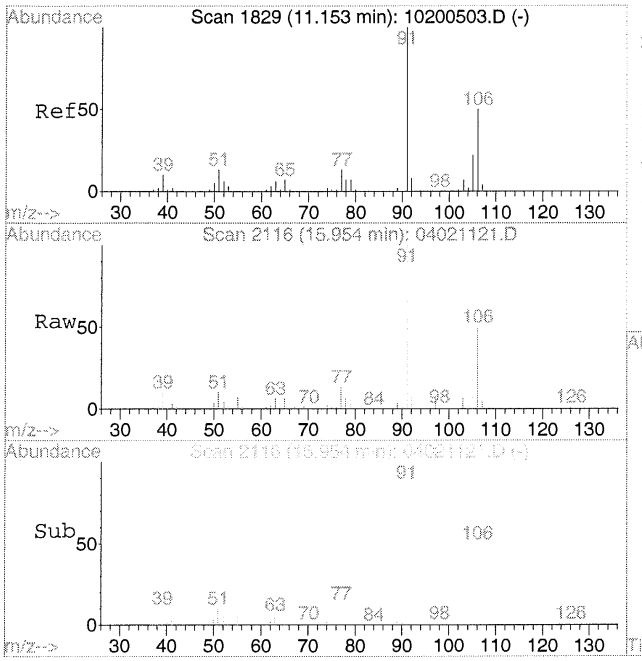


#50
Ethylbenzene
Concen: 1.60 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 232610

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	10.1	0.0	33.1

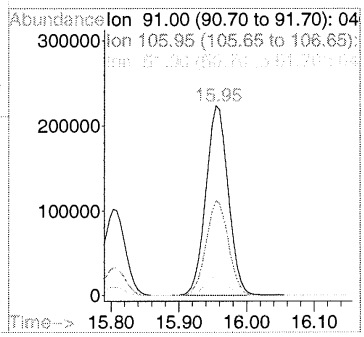


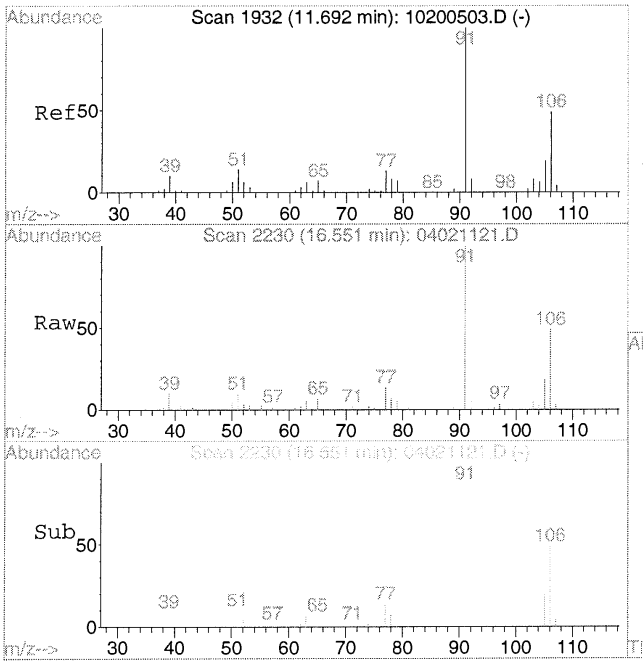


#51
m,p-Xylene
Concen: 4.56 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 513921

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.4	0.0	29.6

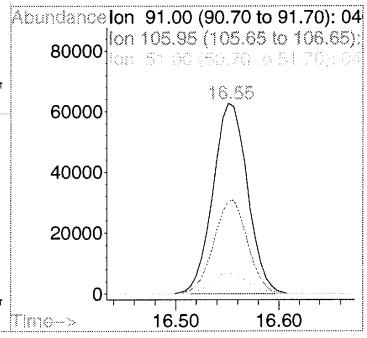




#52
o-Xylene
Concen: 1.33 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04021121.D
Acq: 3 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 145670

Ion	Ratio	Lower	Upper
91	100		
106	48.0	41.0	61.6
51	11.6	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	62	91	131	rBV	1165664	6400856	97.61%	7.145%
2	6.315	259	273	291	rBV5	39624	174199	2.66%	0.194%
3	7.194	426	441	460	rBV	458967	1549248	23.62%	1.729%
4	7.565	497	512	529	rVB	224038	691424	10.54%	0.772%
5	8.177	618	629	644	rVB	70114	224817	3.43%	0.251%
6	8.366	654	665	676	rBV2	35303	109873	1.68%	0.123%
7	8.763	723	741	761	rBV2	856547	2812794	42.89%	3.140%
8	8.930	761	773	785	rVB3	89592	254744	3.88%	0.284%
9	9.087	790	803	822	rBV2	304723	862801	13.16%	0.963%
10	9.391	848	861	877	rBV	777293	1940435	29.59%	2.166%
11	9.914	951	961	968	rBV2	26574	69463	1.06%	0.078%
12	10.008	968	979	993	rVB	335798	887244	13.53%	0.990%
13	10.217	1007	1019	1044	rBV	609856	1649352	25.15%	1.841%
14	10.766	1113	1124	1145	rVV3	1033147	3624139	55.26%	4.045%
15	10.954	1148	1160	1167	rBV	702759	1800920	27.46%	2.010%
16	11.033	1167	1175	1196	rVB2	1487924	3814093	58.16%	4.257%
17	11.211	1196	1209	1218	rBV2	119055	315877	4.82%	0.353%
18	11.357	1218	1237	1250	rVV	2263436	6557862	100.00%	7.320%
19	11.477	1250	1260	1263	rVV	1041971	2520641	38.44%	2.814%
20	11.525	1263	1269	1289	rVB2	1924856	4681739	71.39%	5.226%
21	11.865	1323	1334	1352	rVB	1623390	3692336	56.30%	4.122%
22	12.199	1388	1398	1406	rBV	190762	454490	6.93%	0.507%
23	12.288	1406	1415	1424	rVV	438427	1151158	17.55%	1.285%
24	12.393	1425	1435	1457	rVV	2189749	5574235	85.00%	6.222%
25	12.576	1457	1470	1474	rVV3	136574	371913	5.67%	0.415%
26	12.623	1475	1479	1491	rVB2	138522	313150	4.78%	0.350%
27	12.795	1500	1512	1526	rBV2	805921	2054257	31.33%	2.293%
28	12.947	1526	1541	1545	rBV3	687765	1990712	30.36%	2.222%
29	13.151	1568	1580	1597	rBV	373757	1153821	17.59%	1.288%
30	13.266	1598	1602	1608	rVV2	39707	93259	1.42%	0.104%
31	13.345	1608	1617	1633	rVB	289444	743244	11.33%	0.830%
32	13.575	1645	1661	1667	rBV	506727	1355183	20.67%	1.513%
33	13.674	1673	1680	1694	rVB	1263665	2710941	41.34%	3.026%
34	13.805	1694	1705	1721	rVB	2492049	5884580	89.73%	6.569%
35	13.936	1721	1730	1740	rBV5	32127	91326	1.39%	0.102%
36	14.082	1740	1758	1769	rBV4	266175	790347	12.05%	0.882%
37	14.202	1769	1781	1790	rVB5	105395	319976	4.88%	0.357%
38	14.286	1790	1797	1806	rBV	145590	304492	4.64%	0.340%
39	14.459	1821	1830	1837	rBV	84340	191794	2.92%	0.214%
40	14.527	1837	1843	1852	rVV5	44442	106850	1.63%	0.119%
41	14.689	1866	1874	1883	rBV2	72256	178488	2.72%	0.199%
42	14.830	1888	1901	1908	rVV	525166	1404071	21.41%	1.567%
43	14.888	1908	1912	1919	rVV	235144	547300	8.35%	0.611%

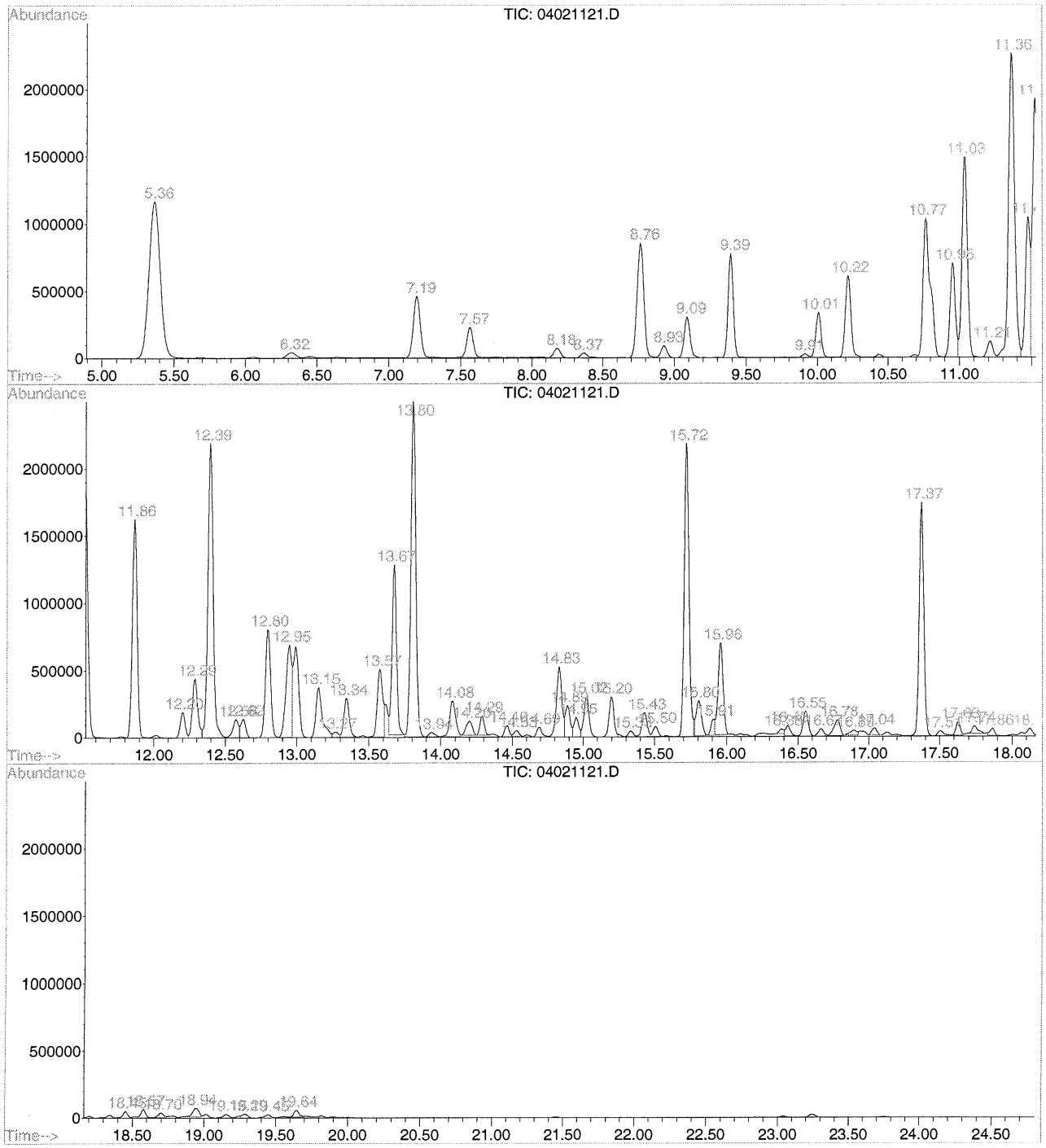
44	14.950	1919	1924	1930	rVV2	146935	346419	5.28%	0.387%
45	15.024	1930	1938	1952	rVB	302567	766887	11.69%	0.856%
46	15.196	1959	1971	1980	rBV	300131	715868	10.92%	0.799%
47	15.332	1989	1997	2005	rBV2	44135	99698	1.52%	0.111%
48	15.431	2005	2016	2024	rVV	179762	444722	6.78%	0.496%
49	15.505	2024	2030	2039	rVB2	75094	174061	2.65%	0.194%
50	15.719	2059	2071	2081	rBV	2181933	5012957	76.44%	5.596%
51	15.803	2082	2087	2099	rVB	261606	679687	10.36%	0.759%
52	15.907	2099	2107	2109	rBV2	121879	234307	3.57%	0.262%
53	15.960	2109	2117	2128	rVB	682551	1673599	25.52%	1.868%
54	16.383	2191	2198	2202	rBV	34850	78826	1.20%	0.088%
55	16.425	2202	2206	2219	rVB3	76133	175083	2.67%	0.195%
56	16.551	2219	2230	2241	rVB	186620	464214	7.08%	0.518%
57	16.666	2241	2252	2261	rBV6	53254	150690	2.30%	0.168%
58	16.776	2261	2273	2282	rBV5	116495	345570	5.27%	0.386%
59	16.891	2282	2295	2301	rBV7	38276	135686	2.07%	0.151%
60	17.037	2315	2323	2332	rVB4	53741	137641	2.10%	0.154%
61	17.372	2371	2387	2404	rVB	1737531	3887659	59.28%	4.340%
62	17.508	2404	2413	2423	rBV4	37534	103678	1.58%	0.116%
63	17.628	2428	2436	2442	rBV2	101898	205917	3.14%	0.230%
64	17.738	2450	2457	2470	rVB3	58677	162377	2.48%	0.181%
65	17.863	2475	2481	2489	rVB2	55475	122469	1.87%	0.137%
66	18.125	2524	2531	2539	rVV2	55862	145177	2.21%	0.162%
67	18.449	2581	2593	2601	rBV2	47797	109464	1.67%	0.122%
68	18.575	2609	2617	2625	rVB2	61372	142258	2.17%	0.159%
69	18.695	2631	2640	2648	rBV6	33142	87454	1.33%	0.098%
70	18.941	2673	2687	2695	rBV3	63249	204139	3.11%	0.228%
71	19.150	2712	2727	2736	rBV4	25279	73374	1.12%	0.082%
72	19.291	2747	2754	2763	rVB3	28129	76409	1.17%	0.085%
73	19.448	2769	2784	2793	rBV4	24997	76611	1.17%	0.086%
74	19.642	2813	2821	2832	rBV2	50384	132189	2.02%	0.148%

Sum of corrected areas: 89585534

04021121.D 031611V1.M Thu Apr 14 12:23:27 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040211\04021121.D
Operator : Michael Truchan/Rachel Hill
Acquired : 3 Apr 2011 12:33 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-017B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 3
Quant File :031611V1.RES (RTE Integrator)



04021121.D 031611V1.M Thu Apr 14 12:23:28 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	22.08 ppbv	6400860	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	5.34 ppbv	1549250	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	36
5	2,5-Furandione, dihydro-3-methyl- $	114	C5H6O3	004100-80-5	25

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	2.38 ppbv	691424	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	9.70 ppbv	2812790	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	72
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	2.98 ppbv	862801	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

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Peak Number 6 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	3.06 ppbv	887244	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	5.69 ppbv	1649350	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
5	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64

****

Peak Number 8 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	6.21 ppbv	1800920	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 9 Pentane, 2,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	22.20 ppbv	6557860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	3.90 ppbv	1151160	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	64
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	55
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	18.87 ppbv	5574240	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	6.95 ppbv	2054260	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	64
4	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	58

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	6.74 ppbv	1990710	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	76
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	50

****

Peak Number 14 Heptane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.91 ppbv	1153820	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
4	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	47
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	47

****

Peak Number 15 Hexane, 2,2,5-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.52 ppbv	743244	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.59 ppbv	1355180	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

****

Peak Number 17 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	9.18 ppbv	2710940	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	72

****

Peak Number 18 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	1.97 ppbv	790347	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	94
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	93
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040211\04021121.D Vial: 3
Acq On : 3 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 1600.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, ethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	3.50 ppbv	1404070	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

****

Peak Number 20 Octane, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	1.91 ppbv	766887	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	68
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	62
4	Octane	114	C8H18	000111-65-9	59
5	Octane	114	C8H18	000111-65-9	53

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 3 Apr 2011 12:33 am
Data File: C:\HPCHEM\1\DATA\040211\04021121.D
Name: 1103389-017B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	22.1	ppbv	6400860	ISTD01	10.77	3624140	12.5
Butane, 2-methyl-	7.19	5.3	ppbv	1549250	ISTD01	10.77	3624140	12.5
Pentane $$ n-Pentane	7.57	2.4	ppbv	691424	ISTD01	10.77	3624140	12.5
Pentane, 2-methyl-	8.76	9.7	ppbv	2812790	ISTD01	10.77	3624140	12.5
Pentane, 3-methyl-	9.09	3.0	ppbv	862801	ISTD01	10.77	3624140	12.5
Pentane, 2,4-dimethy	10.01	3.1	ppbv	887244	ISTD01	10.77	3624140	12.5
Cyclopentane, methyl	10.22	5.7	ppbv	1649350	ISTD01	10.77	3624140	12.5
Pentane, 2,3-dimethy	10.95	6.2	ppbv	1800920	ISTD01	10.77	3624140	12.5
Pentane, 2,2,4-trime	11.36	22.2	ppbv	6557860	ISTD02	11.86	3692340	12.5
Hexane, 1-(hexyloxy)	12.29	3.9	ppbv	1151160	ISTD02	11.86	3692340	12.5
Cyclohexane, methyl-	12.39	18.9	ppbv	5574240	ISTD02	11.86	3692340	12.5
Pentane, 2,3,4-trime	12.80	7.0	ppbv	2054260	ISTD02	11.86	3692340	12.5
Heptane, 2-methyl-	12.95	6.7	ppbv	1990710	ISTD02	11.86	3692340	12.5
Heptane, 3-methyl-	13.15	3.9	ppbv	1153820	ISTD02	11.86	3692340	12.5
Hexane, 2,2,5-trimet	13.34	2.5	ppbv	743244	ISTD02	11.86	3692340	12.5
Cyclohexane, 1,3-dim	13.57	4.6	ppbv	1355180	ISTD02	11.86	3692340	12.5
Octane	13.67	9.2	ppbv	2710940	ISTD02	11.86	3692340	12.5
Cyclohexane, 1,2-dim	14.08	2.0	ppbv	790347	ISTD03	15.72	5012960	12.5
Cyclohexane, ethyl-	14.83	3.5	ppbv	1404070	ISTD03	15.72	5012960	12.5
Octane, 4-methyl-	15.02	1.9	ppbv	766887	ISTD03	15.72	5012960	12.5

04021121.D 031611V1.M Thu Apr 14 12:23:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021122.D Vial: 1
Acq On : 3 Apr 2011 1:14 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 3 1:39 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	493102	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1893875	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1347067	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	806305	11.94	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.52%				
Target Compounds							Qvalue
2) Propylene	5.68	41	40033	1.08	ppbv		99
3) Dichlorodifluoromethane	5.75	85	121382	1.00	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	92887	1.04	ppbv		96
5) Chloromethane	6.17	50	49432	1.18	ppbv	#	96
6) Vinyl chloride	6.39	62	49519	1.05	ppbv	#	99
7) 1,3-Butadiene	6.45	39	40527	1.09	ppbv		95
8) Bromomethane	7.03	94	43185	1.00	ppbv		99
9) Chloroethane	7.18	64	24144	0.96	ppbv	#	96
10) Trichlorofluoromethane	7.51	101	121283	1.05	ppbv		99
11) Ethanol	7.73	45	5238	0.64	ppbv	#	73
12) Freon113	8.17	101	94725	1.02	ppbv		98
13) 1,1-Dichloroethene	8.27	61	72668	1.06	ppbv		96
14) Acetone	8.36	43	60115	0.99	ppbv	#	95
15) Carbon disulfide	8.64	76	127264	1.04	ppbv	#	98
16) 2-Propanol	8.41	45	31304	0.72	ppbv	#	1
17) Methylene chloride	8.93	49	55701	1.12	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	114553	1.02	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	65665	1.02	ppbv		95
20) n-Hexane	9.40	57	73628	1.02	ppbv	#	95
21) 1,1-Dichloroethane	9.77	63	79436	1.00	ppbv		97
22) Vinyl acetate	9.70	43	75975	0.94	ppbv		97
23) cis-1,2-Dichloroethene	10.46	96	45106	1.00	ppbv		94
24) 2-Butanone	10.42	43	58205	0.93	ppbv		93
25) Ethyl acetate	10.37	43	63732	0.82	ppbv	#	99
26) Tetrahydrofuran	10.76	42	37684	0.92	ppbv		93
27) Chloroform	10.78	83	92541	1.08	ppbv		98
28) 1,1,1-Trichloroethane	11.03	97	92381	1.04	ppbv		97
29) Cyclohexane	11.04	56	72891	1.00	ppbv		94
30) Carbon tetrachloride	11.20	117	89897	1.01	ppbv		99
31) Benzene	11.47	78	118510	0.97	ppbv		98
32) 1,2-Dichloroethane	11.55	62	52374	1.07	ppbv		97
34) Heptane	11.52	43	89177	0.97	ppbv		94
35) Trichloroethene	12.20	130	61859	0.96	ppbv		98
36) 1,2-Dichloropropane	12.56	63	43788	0.96	ppbv		99
37) 1,4-Dioxane	12.63	88	12226	0.67	ppbv		98
38) Bromodichloromethane	12.84	83	84488	0.95	ppbv		97
39) cis-1,3-Dichloropropene	13.40	75	62980	0.90	ppbv		97
40) 4-Methyl-2-pentanone	13.51	58	12816	0.61	ppbv		96
41) Toluene	13.81	91	138451	0.97	ppbv		97
42) trans-1,3-Dichloropropene	14.11	75	48266	0.83	ppbv		96
43) 1,1,2-Trichloroethane	14.38	97	45328	0.98	ppbv		98
44) Tetrachloroethene	14.51	166	81754	1.03	ppbv		98
45) 2-Hexanone	14.58	43	16089	0.53	ppbv		98
46) Chlorodibromomethane	14.93	129	74226	0.95	ppbv		99
47) 1,2-Dibromoethane	15.17	107	64315	0.95	ppbv		99
49) Chlorobenzene	15.77	112	96077	1.01	ppbv	#	73
50) Ethylbenzene	15.80	91	156323	1.00	ppbv		92

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040211\04021122.D Vial: 1
Acq On : 3 Apr 2011 1:14 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 3 1:39 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

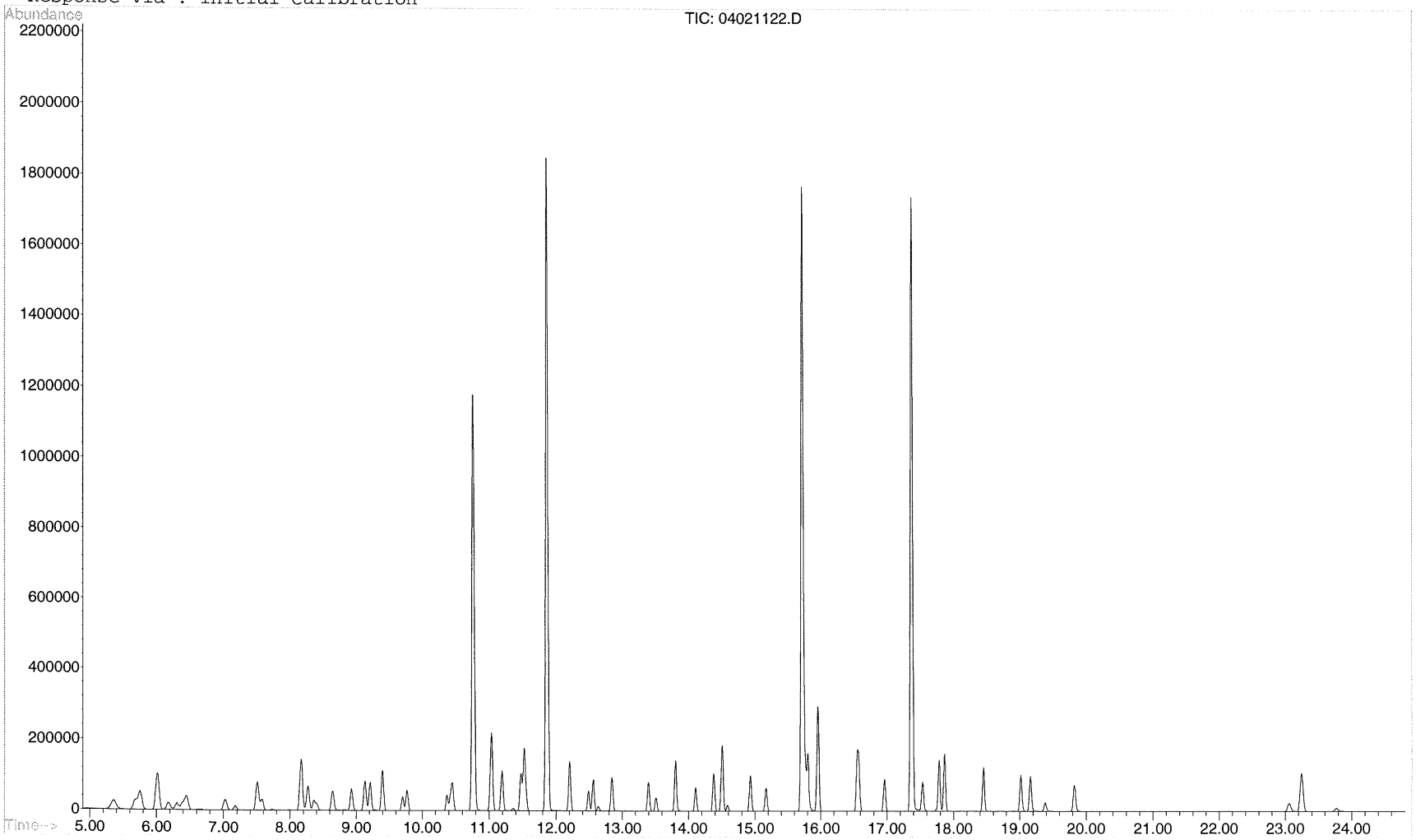
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	241460	1.99	ppbv		94
52)	o-Xylene	16.55	91	117772	1.00	ppbv		96
53)	Styrene	16.58	104	80885	1.00	ppbv		99
54)	Bromoform	16.96	173	64580	0.95	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	60106	0.90	ppbv		98
57)	4-Ethyltoluene	17.78	105	138555	0.98	ppbv		99
58)	1,3,5-Trimethylbenzene	17.86	105	120502	1.04	ppbv		93
59)	1,2,4-Trimethylbenzene	18.45	105	103410	0.99	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	73076	1.01	ppbv		96
61)	1,4-Dichlorobenzene	19.16	146	70865	1.02	ppbv		97
62)	Benzyl chloride	19.38	91	40508	0.90	ppbv	#	95
63)	1,2-Dichlorobenzene	19.82	146	61728	0.99	ppbv		96
64)	1,2,4-Trichlorobenzene	23.06	180	26247	0.74	ppbv		97
65)	Hexachlorobutadiene	23.24	225	56115	0.90	ppbv		99
66)	Naphthalene	23.77	128	30427	0.70	ppbv	#	86

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040211\04021122.D Vial: 1
Acq On : 3 Apr 2011 1:14 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 3 1:39 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



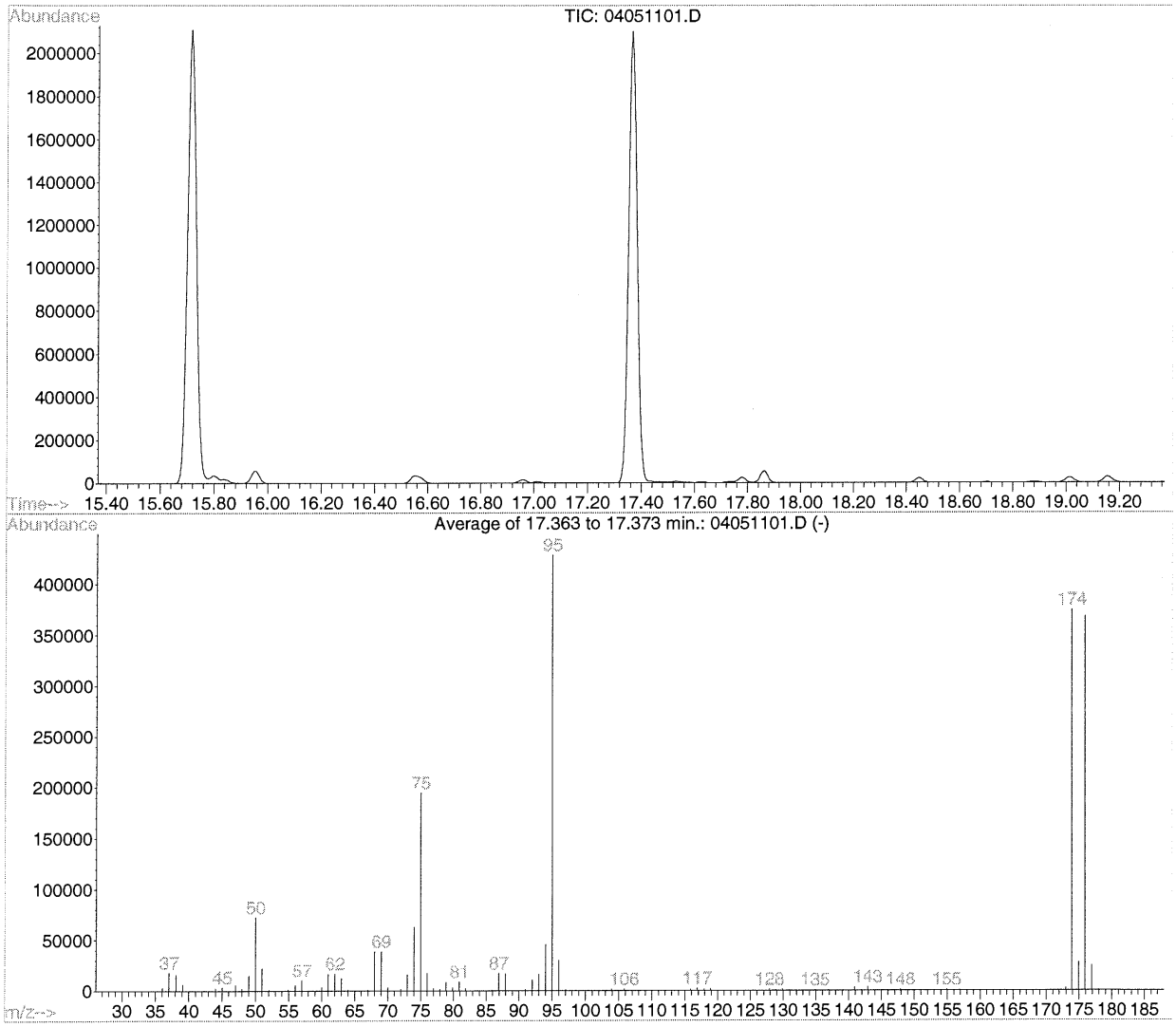
Injection Log

Directory: C:\HPCHEM\1\DATA\040511

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04051101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	5 Apr 2011 10:02
2	2	04051102.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	5 Apr 2011 10:45
3	3	04051103.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	5 Apr 2011 11:27
4	2	04051104.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	5 Apr 2011 12:10
5	2	04051105.d	1.	MBLK	MBLK EPA_TO15-UG/M3	5 Apr 2011 12:54
6	3	04051106.d	1.	CLEAN CHECK 633	SAMP EPA_TO15-UG/M3	5 Apr 2011 13:39
7	4	04051107.d	1.	CLEAN CHECK 635	SAMP EPA_TO15-UG/M3	5 Apr 2011 14:24
8	5	04051108.d	80000.	1103389-010B	SAMP EPA_TO15-UG/M3	5 Apr 2011 15:06
9	2	04051110.d	80000.	1103389-010BDUP	DUP EPA_TO15-UG/M3	5 Apr 2011 15:48
10	3	04051111.d	8000.	1103389-021B	SAMP EPA_TO15-UG/M3	5 Apr 2011 16:30
11	4	04051112.d	40.	1103389-034B	SAMP EPA_TO15-UG/M3	5 Apr 2011 17:13
12	6	04051113.d	40.	1103389-035B	SAMP EPA_TO15-UG/M3	5 Apr 2011 17:54
13	7	04051114.d	40.	1103389-036B	SAMP EPA_TO15-UG/M3	5 Apr 2011 18:36
14	8	04051115.d	40.	1103389-037B	SAMP EPA_TO15-UG/M3	5 Apr 2011 19:19
15	9	04051116.d	20000.	1103389-022B	SAMP EPA_TO15-UG/M3	5 Apr 2011 20:04
16	10	04051117.d	40000.	1103389-023B	SAMP EPA_TO15-UG/M3	5 Apr 2011 20:49
17	11	04051118.d	40000.	1103389-024B	SAMP EPA_TO15-UG/M3	5 Apr 2011 21:34
18	12	04051119.d	40000.	1103389-025B	SAMP EPA_TO15-UG/M3	5 Apr 2011 22:19
19	13	04051120.d	80000.	1103389-026B	SAMP EPA_TO15-UG/M3	5 Apr 2011 23:04
20	14	04051121.d	40000.	1103389-026B – DATA NOT used RA/CL 4/15/11	SAMP EPA_TO15-UG/M3	5 Apr 2011 23:49
21	15	04051122.d	40000.	1103389-027B	SAMP EPA_TO15-UG/M3	6 Apr 2011 00:33
22	16	04051123.d	20000.	1103389-028B	SAMP EPA_TO15-UG/M3	6 Apr 2011 01:18
23	1	04051124.d	24.	1103389-038A	SAMP EPA_TO15-UG/M3	6 Apr 2011 02:04
24	2	04051125.d	8000.	1103389-029A	SAMP EPA_TO15-UG/M3	6 Apr 2011 02:49
25	3	04051126.d	8000.	1103389-030A	SAMP EPA_TO15-UG/M3	6 Apr 2011 03:33
26	4	04051127.d	8000.	1103609-001A	SAMP EPA_TO15-UG/M3	6 Apr 2011 04:18
27	6	04051128.d	8000.	1103609-017A – DATA NOT used RA/CL 4/15/11	SAMP EPA_TO15-UG/M3	6 Apr 2011 05:02
28	7	04051129.d	8000.	1103609-006A	SAMP EPA_TO15-UG/M3	6 Apr 2011 05:46
29	8	04051130.d	8000.	1103609-007A	SAMP EPA_TO15-UG/M3	6 Apr 2011 06:31
30	9	04051131.d	8000.	1103609-008A	SAMP EPA_TO15-UG/M3	6 Apr 2011 07:15
31	10	04051132.d	8000.	1103609-009A	SAMP EPA_TO15-UG/M3	6 Apr 2011 07:59
32	2	04051133.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	6 Apr 2011 09:31

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040511\04051101.D Vial: 1
Acq On : 5 Apr 2011 10:02 am Operator: Michael Truchan/Rachel Hill
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : TUNE BFB_TUNE Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv



Spectrum Information: Average of 17.363 to 17.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	72211	PASS
75	95	30	60	45.4	194475	PASS
95	95	100	100	100.0	428139	PASS
96	95	5	9	6.9	29685	PASS
173	174	0.00	2	0.7	2594	PASS
174	95	50	120	87.5	374507	PASS
175	174	4	9	7.4	27603	PASS
176	174	93	101	98.3	368085	PASS
177	176	5	9	6.7	24589	PASS

04051101.D 031611V1.M Thu Apr 14 12:32:48 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.00
2	T	Propylene	0.937	0.931	0.6	85	0.00
3	T	Dichlorodifluoromethane	3.080	2.934	4.7	81	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.056	9.3	77	0.00
5	T	Chloromethane	1.061	1.288	-21.4	104	0.00
6	T	Vinyl chloride	1.201	1.189	1.0	81	0.00
7	T	1,3-Butadiene	0.945	0.893	5.5	79	0.00
8	T	Bromomethane	1.100	0.600	45.5#	46#	0.00
9	T	Chloroethane	0.640	0.498	22.2	66	0.00
10	T	Trichlorofluoromethane	2.939	2.709	7.8	78	0.00
11	T	Ethanol	0.208	0.226	-8.7	96	0.00
12	T	Freon113	2.361	2.095	11.3	74	0.00
13	T	1,1-Dichloroethene	1.731	1.430	17.4	69	0.00
14	T	Acetone	1.541	1.176	23.7	69	0.00
15	T	Carbon disulfide	3.087	2.708	12.3	74	0.00
16	T	2-Propanol	1.109	1.051	5.2	81	0.00
17	T	Methylene chloride	1.259	1.026	18.5	70	0.00
18	T	tert-Butyl Methyl Ether	2.858	2.123	25.7	68	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.397	14.3	72	0.00
20	T	n-Hexane	1.825	1.439	21.2	67	0.00
21	T	1,1-Dichloroethane	2.005	1.809	9.8	77	0.00
22	T	Vinyl acetate	2.051	1.374	33.0#	60	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.015	11.4	75	0.00
24	T	2-Butanone	1.589	1.325	16.6	78	0.00
25	T	Ethyl acetate	1.982	1.664	16.0	77	0.00
26	T	Tetrahydrofuran	1.042	0.935	10.3	78	0.00
27	T	Chloroform	2.179	1.892	13.2	74	0.00
28	T	1,1,1-Trichloroethane	2.251	1.976	12.2	74	0.00
29	T	Cyclohexane	1.848	1.586	14.2	73	0.00
30	T	Carbon tetrachloride	2.254	2.028	10.0	76	0.00
31	T	Benzene	3.090	2.528	18.2	73	0.00
32	T	1,2-Dichloroethane	1.244	1.027	17.4	72	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	78	0.00
34	T	Heptane	0.604	0.522	13.6	72	0.00
35	T	Trichloroethene	0.426	0.642	-50.7#	127	0.00
36	T	1,2-Dichloropropane	0.301	0.246	18.3	70	0.00
37	T	1,4-Dioxane	0.120	0.102	15.0	72	0.00
38	T	Bromodichloromethane	0.589	0.524	11.0	74	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.375	19.0	69	0.00
40	T	4-Methyl-2-pentanone	0.138	0.130	5.8	79	0.00
41	T	Toluene	0.942	0.805	14.5	75	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.296	22.7	66	0.00
43	T	1,1,2-Trichloroethane	0.307	0.242	21.2	67	0.00
44	T	Tetrachloroethene	0.522	0.470	10.0	75	0.00
45	T	2-Hexanone	0.201	0.261	-29.9	101	0.00
46	T	Chlorodibromomethane	0.515	0.433	15.9	70	0.00
47	T	1,2-Dibromoethane	0.447	0.312	30.2#	59	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00
49	T	Chlorobenzene	0.879	0.684	22.2	70	0.00
50	T	Ethylbenzene	1.453	1.212	16.6	77	0.00
51	T	m,p-Xylene	1.125	0.911	19.0	73	0.00
52	T	o-Xylene	1.096	0.899	18.0	75	0.00
53	T	Styrene	0.752	0.654	13.0	78	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.511	19.0	72	0.00
55	S	4-Bromofluorobenzene	0.627	0.619	1.3	80	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.086	86.2#	12#	0.00
57	T	4-Ethyltoluene	1.309	0.992	24.2	71	0.00
58	T	1,3,5-Trimethylbenzene	1.080	0.842	22.0	73	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.746	22.7	71	0.00
60	T	1,3-Dichlorobenzene	0.671	0.535	20.3	73	0.00
61	T	1,4-Dichlorobenzene	0.642	0.519	19.2	73	0.00
62	T	Benzyl chloride	0.420	0.102	75.7#	22#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.451	22.2	71	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.253	23.3	63	0.00
65	T	Hexachlorobutadiene	0.578	0.342	40.8#	53	0.00
66		Naphthalene	0.402	0.321	20.1	67	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 11:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	609792	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2094150	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1540048	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	952787	12.34	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.72%				
Target Compounds							Qvalue
2) Propylene	5.67	41	463264	10.13	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1316703	8.76	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	952776	8.62	ppbv		94
5) Chloromethane	6.17	50	596777	11.52	ppbv		99
6) Vinyl chloride	6.38	62	545167	9.31	ppbv		100
7) 1,3-Butadiene	6.44	39	427120	9.26	ppbv		97
8) Bromomethane	7.02	94	272153	5.07	ppbv		99
9) Chloroethane	7.17	64	223546	7.16	ppbv		99
10) Trichlorofluoromethane	7.50	101	1268662	8.85	ppbv		99
11) Ethanol	7.72	45	101229	9.99	ppbv		99
12) Freon113	8.16	101	1001595	8.70	ppbv		96
13) 1,1-Dichloroethene	8.27	61	690504	8.18	ppbv		95
14) Acetone	8.36	43	573890	7.64	ppbv		97
15) Carbon disulfide	8.64	76	1281474	8.51	ppbv	#	100
16) 2-Propanol	8.40	45	518060	9.57	ppbv		87
17) Methylene chloride	8.93	49	500503	8.15	ppbv		93
18) tert-Butyl Methyl Ether	9.12	73	1025481	7.35	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	667763	8.40	ppbv		94
20) n-Hexane	9.39	57	708948	7.96	ppbv		97
21) 1,1-Dichloroethane	9.77	63	856095	8.75	ppbv		99
22) Vinyl acetate	9.70	43	663790	6.64	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	485452	8.68	ppbv		95
24) 2-Butanone	10.42	43	639796	8.25	ppbv		95
25) Ethyl acetate	10.37	43	795362	8.22	ppbv	#	100
26) Tetrahydrofuran	10.76	42	456337	8.98	ppbv		96
27) Chloroform	10.78	83	904362	8.51	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	925558	8.43	ppbv		99
29) Cyclohexane	11.04	56	758289	8.41	ppbv		96
30) Carbon tetrachloride	11.19	117	940090	8.55	ppbv		99
31) Benzene	11.47	78	1183773	7.85	ppbv		99
32) 1,2-Dichloroethane	11.55	62	486135	8.01	ppbv		99
34) Heptane	11.52	43	865189	8.55	ppbv		97
35) Trichloroethene	12.20	130	1031838	14.45	ppbv		97
36) 1,2-Dichloropropane	12.56	63	404527	8.03	ppbv		100
37) 1,4-Dioxane	12.63	88	163430	8.14	ppbv		98
38) Bromodichloromethane	12.84	83	842532	8.54	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	596391	7.69	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	218330	9.47	ppbv		98
41) Toluene	13.80	91	1321678	8.37	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	452010	7.04	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	396782	7.72	ppbv		98
44) Tetrachloroethene	14.51	166	756687	8.65	ppbv		100
45) 2-Hexanone	14.59	43	428845	12.71	ppbv		98
46) Chlorodibromomethane	14.93	129	711404	8.25	ppbv		99
47) 1,2-Dibromoethane	15.17	107	502298	6.70	ppbv		98
49) Chlorobenzene	15.76	112	834887	7.71	ppbv		94
50) Ethylbenzene	15.80	91	1463183	8.17	ppbv		93

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 11:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

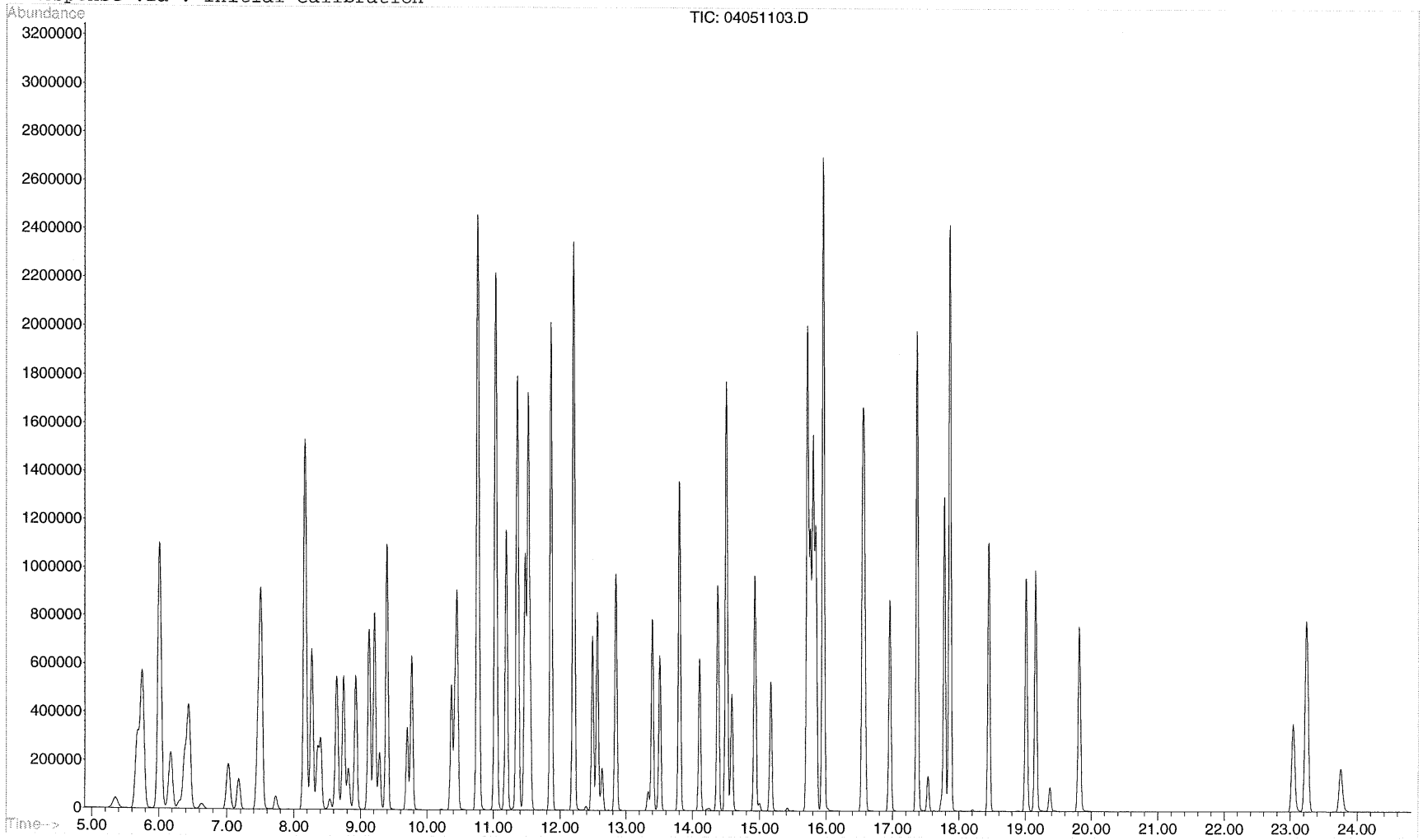
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	2154491	15.54	ppbv		95
52)	o-Xylene	16.55	91	1107481	8.20	ppbv		95
53)	Styrene	16.58	104	789638	8.52	ppbv		98
54)	Bromoform	16.96	173	604687	7.78	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	105606	1.38	ppbv		97
57)	4-Ethyltoluene	17.78	105	1197787	7.42	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	1005843	7.56	ppbv	#	55
59)	1,2,4-Trimethylbenzene	18.45	105	901166	7.58	ppbv		97
60)	1,3-Dichlorobenzene	19.01	146	639229	7.73	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	614169	7.77	ppbv		99
62)	Benzyl chloride	19.38	91	121356	2.35	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	539008	7.55	ppbv		99
64)	1,2,4-Trichlorobenzene	23.04	180	283677	6.97	ppbv		98
65)	Hexachlorobutadiene	23.25	225	396062	5.56	ppbv		99
66)	Naphthalene	23.75	128	363863	7.35	ppbv		100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 11:52 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051104.D Vial: 2
Acq On : 5 Apr 2011 12:10 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 12:35 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	609838	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2187406	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1543267	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	955009	12.35	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.80%				
Target Compounds							Qvalue
2) Propylene	5.68	41	48762	1.07	ppbv		99
3) Dichlorodifluoromethane	5.75	85	141486	0.94	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	104203	0.94	ppbv		92
5) Chloromethane	6.18	50	53246	1.03	ppbv	#	93
6) Vinyl chloride	6.38	62	60043	1.02	ppbv	#	98
7) 1,3-Butadiene	6.44	39	49251	1.07	ppbv		94
8) Bromomethane	7.02	94	50405	0.94	ppbv		100
9) Chloroethane	7.18	64	28470	0.91	ppbv	#	97
10) Trichlorofluoromethane	7.51	101	142059	0.99	ppbv		99
11) Ethanol	7.73	45	9833	0.97	ppbv	#	89
12) Freon113	8.16	101	112094	0.97	ppbv		97
13) 1,1-Dichloroethene	8.26	61	87938	1.04	ppbv		94
14) Acetone	8.36	43	74152	0.99	ppbv	#	96
15) Carbon disulfide	8.64	76	150661	1.00	ppbv	#	99
16) 2-Propanol	8.40	45	44064	0.81	ppbv	#	65
17) Methylene chloride	8.92	49	66258	1.08	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	135178	0.97	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	78748	0.99	ppbv		94
20) n-Hexane	9.39	57	86885	0.98	ppbv		94
21) 1,1-Dichloroethane	9.77	63	93300	0.95	ppbv		98
22) Vinyl acetate	9.70	43	85323	0.85	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	52607	0.94	ppbv		93
24) 2-Butanone	10.42	43	69350	0.89	ppbv		94
25) Ethyl acetate	10.37	43	75479	0.78	ppbv	#	100
26) Tetrahydrofuran	10.76	42	44670	0.88	ppbv		94
27) Chloroform	10.78	83	106373	1.00	ppbv		98
28) 1,1,1-Trichloroethane	11.03	97	107827	0.98	ppbv		98
29) Cyclohexane	11.04	56	87946	0.98	ppbv		94
30) Carbon tetrachloride	11.19	117	103926	0.95	ppbv		99
31) Benzene	11.47	78	142883	0.95	ppbv		98
32) 1,2-Dichloroethane	11.54	62	59356	0.98	ppbv		98
34) Heptane	11.52	43	106939	1.01	ppbv		94
35) Trichloroethene	12.20	130	70202	0.94	ppbv		97
36) 1,2-Dichloropropane	12.56	63	49741	0.94	ppbv		99
37) 1,4-Dioxane	12.63	88	19664	0.94	ppbv		99
38) Bromodichloromethane	12.84	83	96233	0.93	ppbv		99
39) cis-1,3-Dichloropropene	13.40	75	72150	0.89	ppbv		96
40) 4-Methyl-2-pentanone	13.51	58	15471	0.64	ppbv		94
41) Toluene	13.80	91	160003	0.97	ppbv		97
42) trans-1,3-Dichloropropene	14.10	75	55474	0.83	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	51144	0.95	ppbv		99
44) Tetrachloroethene	14.50	166	91532	1.00	ppbv		98
45) 2-Hexanone	14.59	43	25103	0.71	ppbv		97
46) Chlorodibromomethane	14.93	129	84061	0.93	ppbv		99
47) 1,2-Dibromoethane	15.17	107	73768	0.94	ppbv		100
49) Chlorobenzene	15.76	112	107397	0.99	ppbv	#	83
50) Ethylbenzene	15.80	91	177286	0.99	ppbv		93

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051104.D Vial: 2
Acq On : 5 Apr 2011 12:10 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 12:35 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

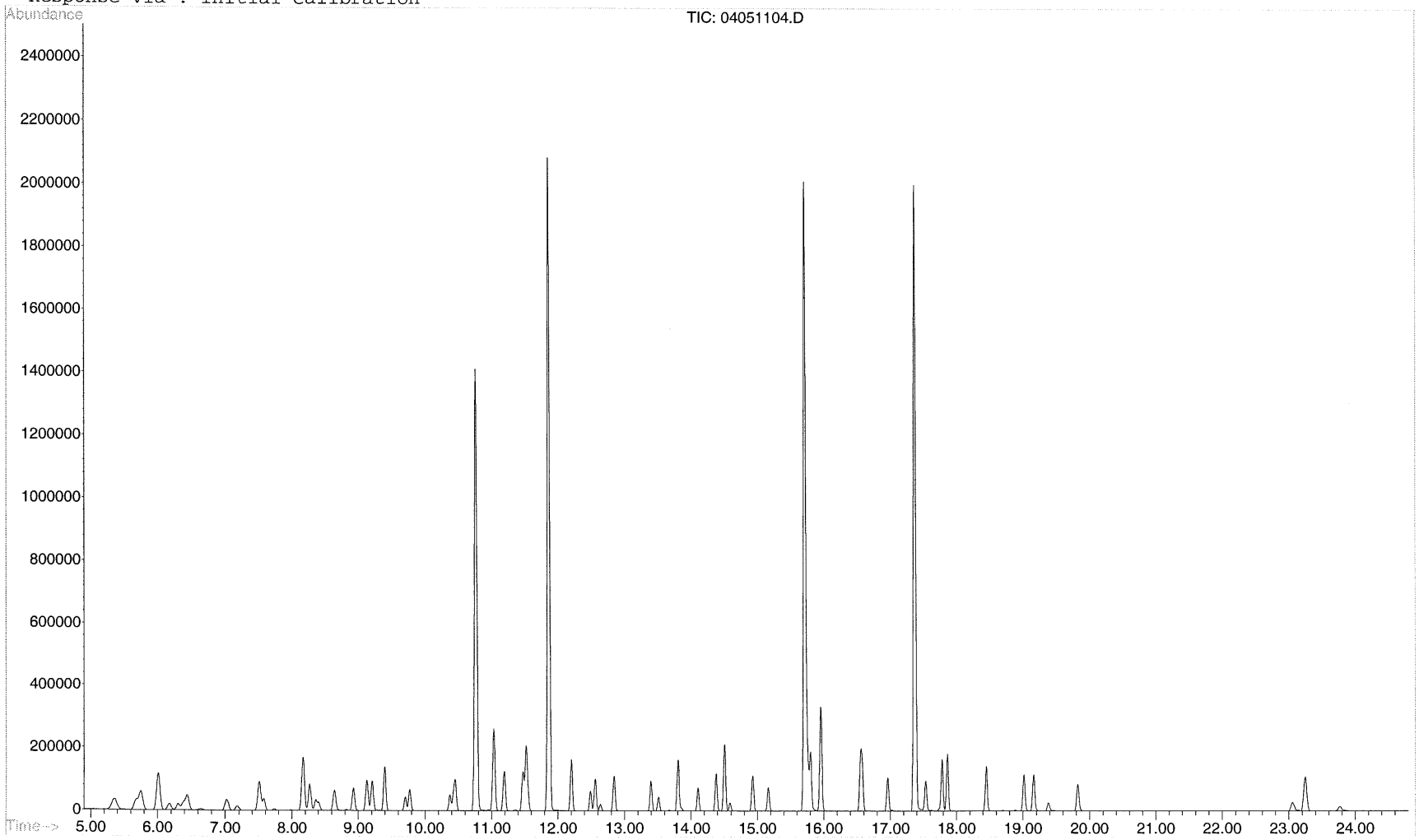
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	272180	1.96	ppbv		93
52)	o-Xylene	16.55	91	135924	1.00	ppbv		96
53)	Styrene	16.58	104	89960	0.97	ppbv		98
54)	Bromoform	16.96	173	74682	0.96	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	68093	0.89	ppbv		99
57)	4-Ethyltoluene	17.78	105	158902	0.98	ppbv		98
58)	1,3,5-Trimethylbenzene	17.86	105	134877	1.01	ppbv		93
59)	1,2,4-Trimethylbenzene	18.45	105	115163	0.97	ppbv		98
60)	1,3-Dichlorobenzene	19.02	146	81533	0.98	ppbv		97
61)	1,4-Dichlorobenzene	19.16	146	79407	1.00	ppbv		98
62)	Benzyl chloride	19.37	91	43616	0.84	ppbv		94
63)	1,2-Dichlorobenzene	19.82	146	68380	0.96	ppbv		98
64)	1,2,4-Trichlorobenzene	23.06	180	31027	0.76	ppbv		94
65)	Hexachlorobutadiene	23.25	225	58259	0.82	ppbv		98
66)	Naphthalene	23.76	128	42617	0.86	ppbv	#	92

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051104.D Vial: 2
Acq On : 5 Apr 2011 12:10 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 12:35 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051105.D Vial: 2
Acq On : 5 Apr 2011 12:54 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 13:19 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

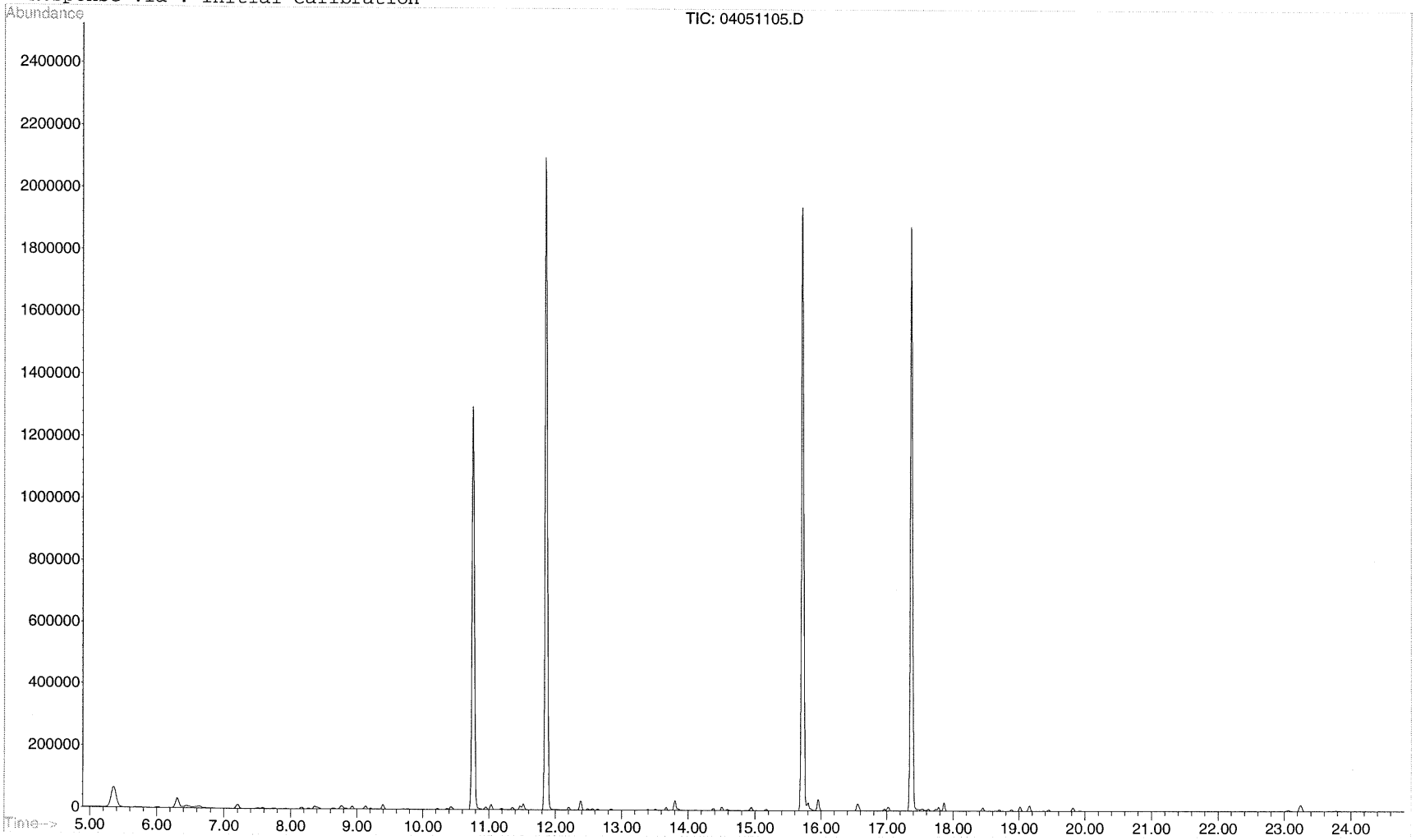
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	606512	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2176127	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1506272	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	888864	11.77	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 94.16%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
04051105.D 031611V1.M Thu Apr 14 12:36:56 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051105.D Vial: 2
Acq On : 5 Apr 2011 12:54 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 13:19 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:44 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	570986	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1996064	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1439020	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	881858	12.23	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.84%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	1291374	15.49	ppbv		98
29) Cyclohexane*	11.04	56	1332979	15.79	ppbv	#	81
31) Benzene	11.48	78	557342	3.95	ppbv		94
34) Heptane	11.52	43	732648	7.60	ppbv	#	91
41) Toluene	13.80	91	821359	5.46	ppbv		98
51) m,p-Xylene	15.95	91	107035	0.83	ppbv		94

* = reported only 4/15/11 AP

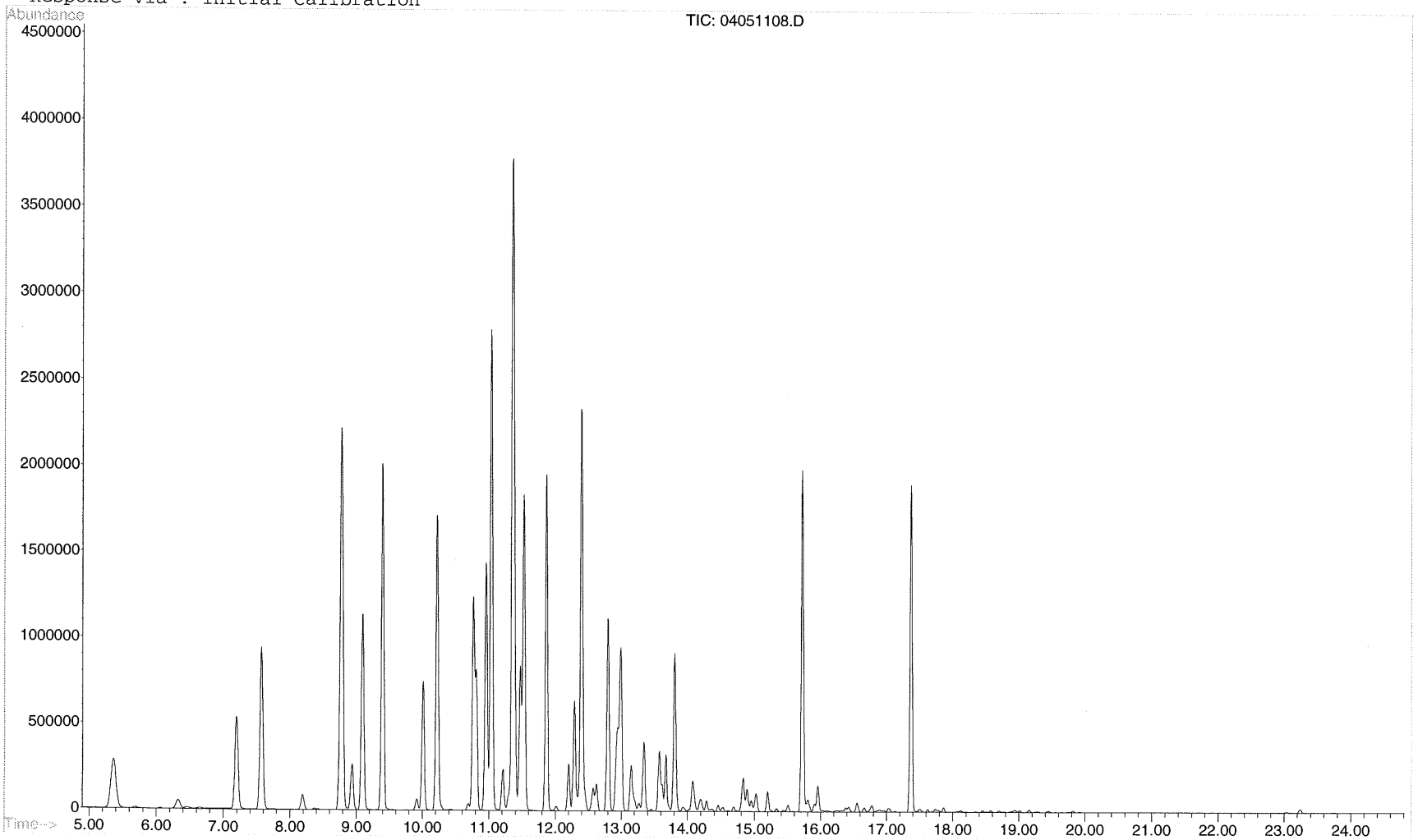
(#) = qualifier out of range (m) = manual integration
04051108.D 031611V1.M Thu Apr 14 12:37:16 2011 Page 1

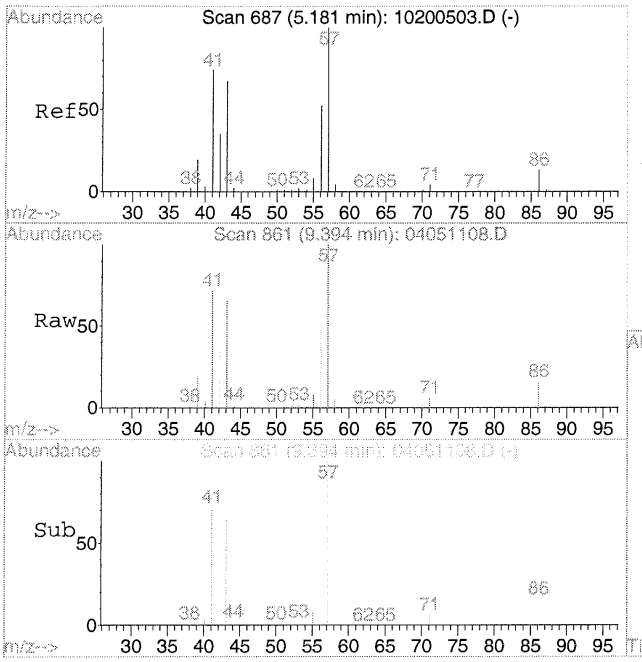
Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D
Acq On : 5 Apr 2011 3:06 pm
Sample : 1103389-010B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: CLME.P
Quant Time: Apr 6 9:44 2011

Vial: 5
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 80000.00
Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

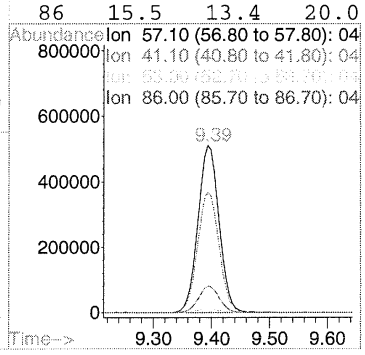


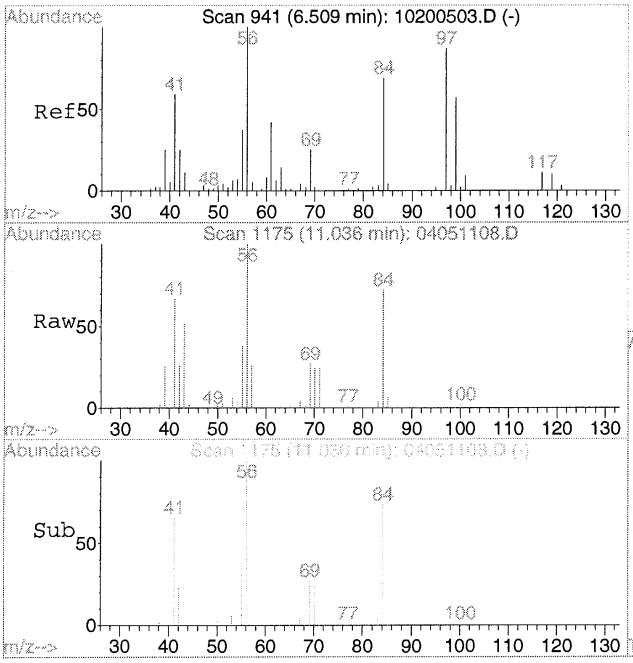


#20
n-Hexane
Concen: 15.49 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 57 Resp: 1291374

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

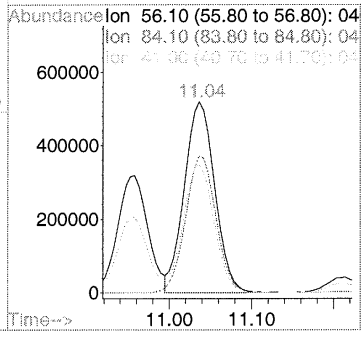


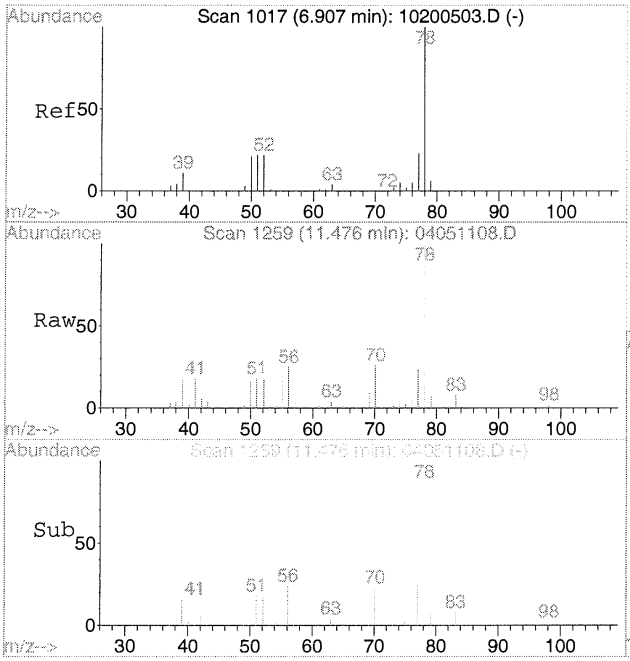


#29
Cyclohexane
Concen: 15.79 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 56 Resp: 1332979

Ion	Ratio	Lower	Upper
56	100		
84	72.0	72.4	108.6#
41	68.0	43.8	65.8#

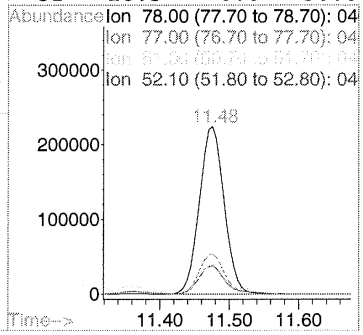


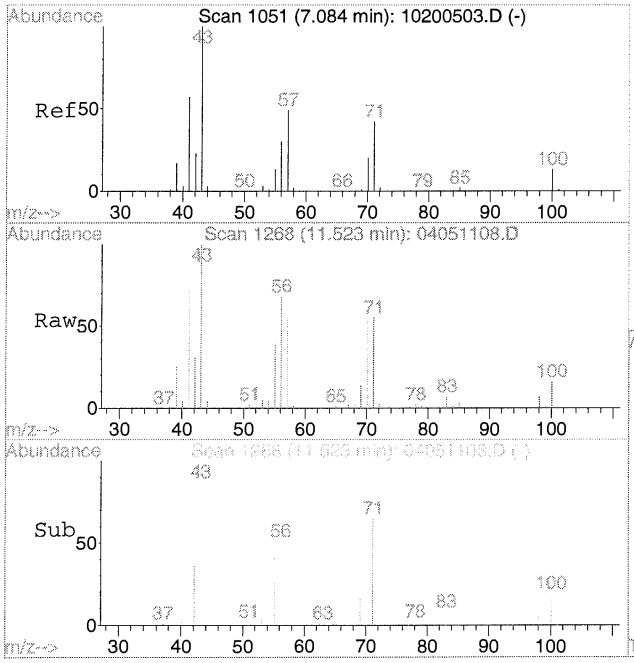


#31
Benzene
Concen: 3.95 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 78 Resp: 557342

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	21.3	0.0	36.1
52	18.3	0.0	36.0

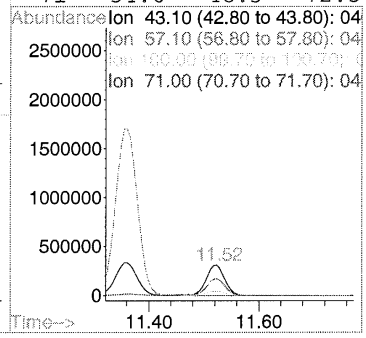


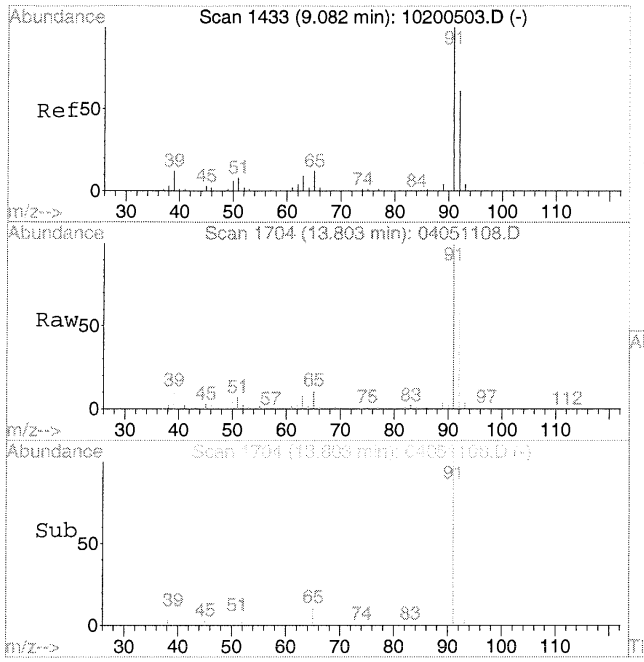


#34
Heptane
Concen: 7.60 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 43 Resp: 732648

Ion	Ratio	Lower	Upper
43	100		
57	58.9	42.2	63.4
100	14.6	17.3	25.9#
71	54.6	48.3	72.5

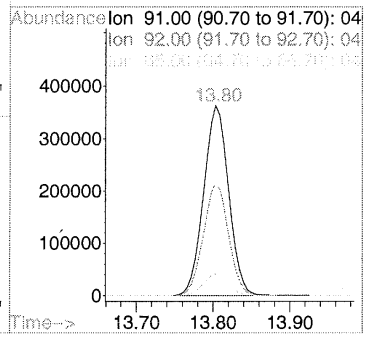


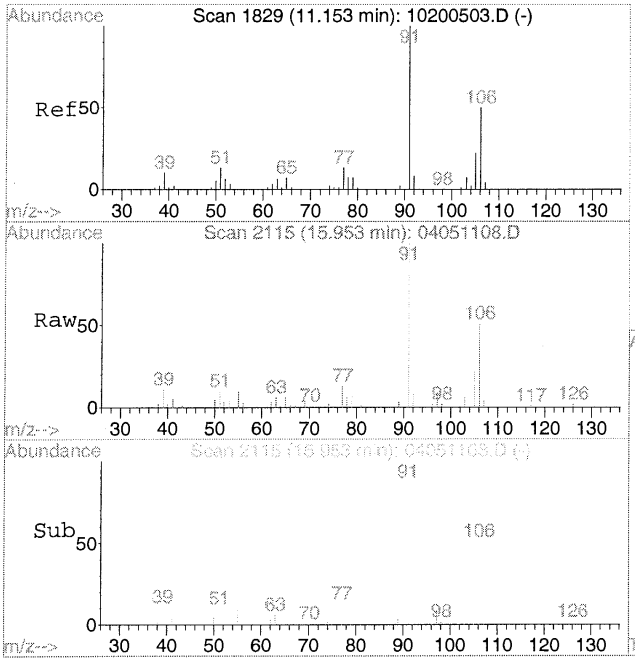


#41
Toluene
Concen: 5.46 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 91 Resp: 821359

Ion	Ratio	Lower	Upper
91	100		
92	59.2	40.5	80.5
65	11.5	0.0	31.2

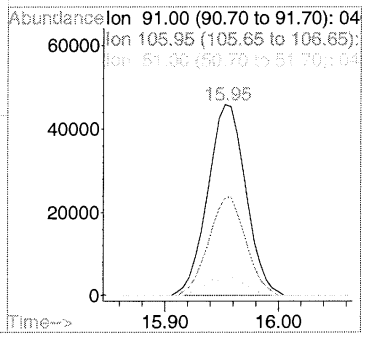




#51
m,p-Xylene
Concen: 0.83 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 91 Resp: 107035

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	10.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051110.D Vial: 2
Acq On : 5 Apr 2011 3:48 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:45 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

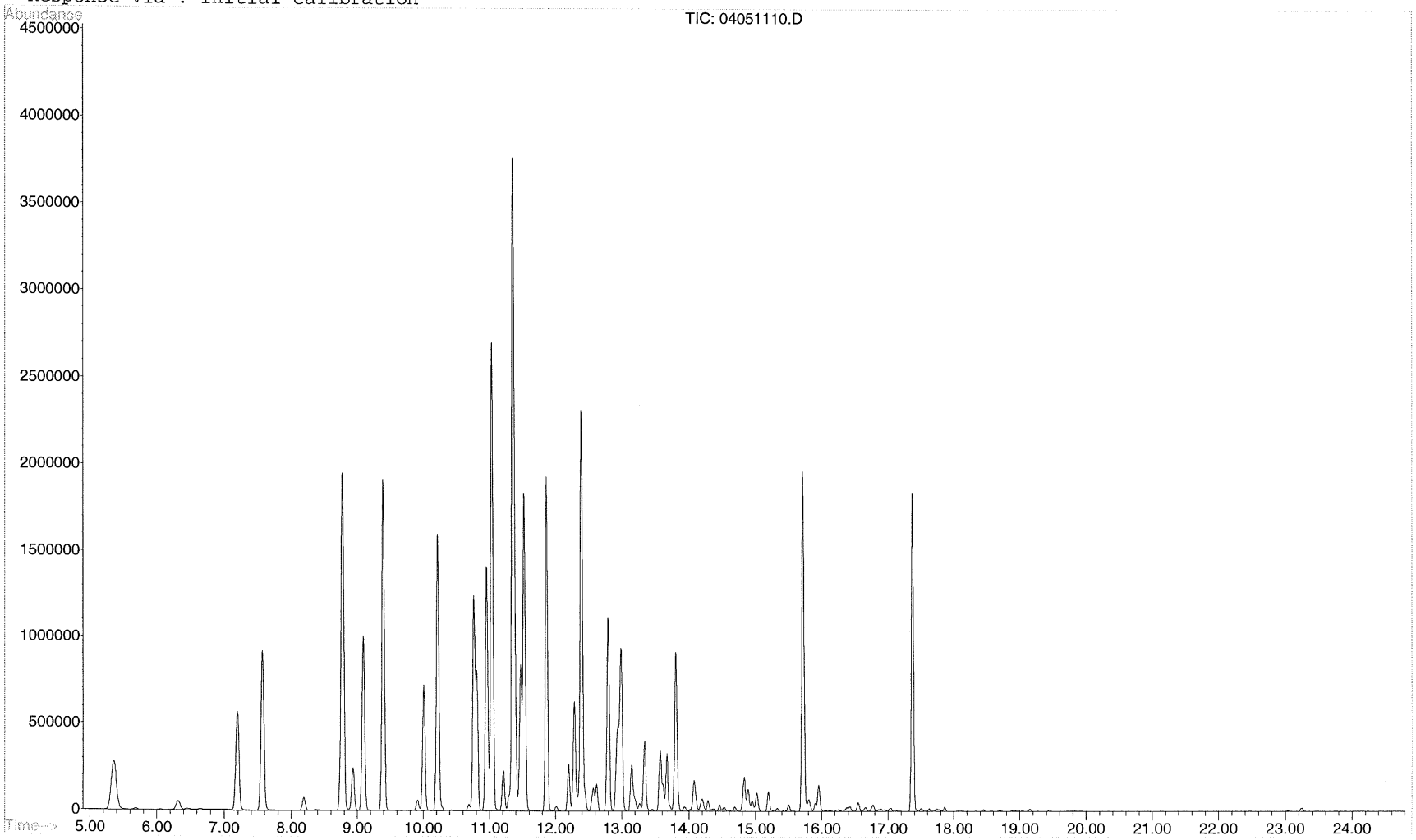
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	566293	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1977413	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1414491	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	857060	12.09	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.72%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	1215323	14.70	ppbv		97
29) Cyclohexane	11.04	56	1280296	15.29	ppbv	#	81
31) Benzene	11.47	78	553474	3.95	ppbv		96
34) Heptane	11.52	43	730842	7.65	ppbv	#	93
41) Toluene	13.80	91	826332	5.54	ppbv		98
51) m,p-Xylene	15.95	91	105062	0.83	ppbv		94

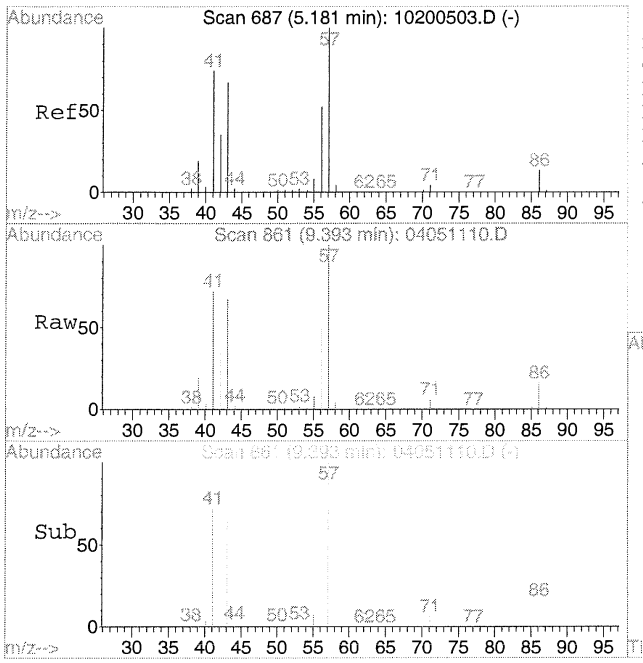
(#) = qualifier out of range (m) = manual integration
04051110.D 031611V1.M Thu Apr 14 12:37:28 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051110.D Vial: 2
Acq On : 5 Apr 2011 3:48 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:45 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

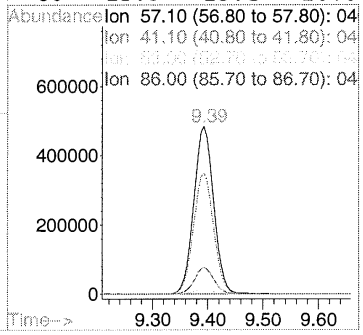


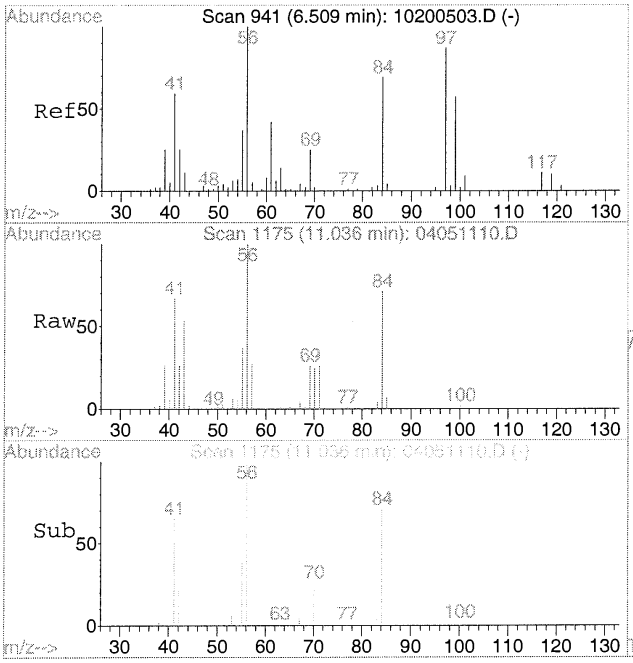


#20
n-Hexane
Concen: 14.70 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 57 Resp: 1215323

Ion	Ratio	Lower	Upper
57	100		
41	73.7	57.2	85.8
53	2.3	1.8	2.8
86	15.5	13.4	20.0

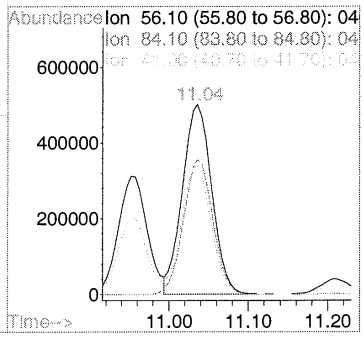


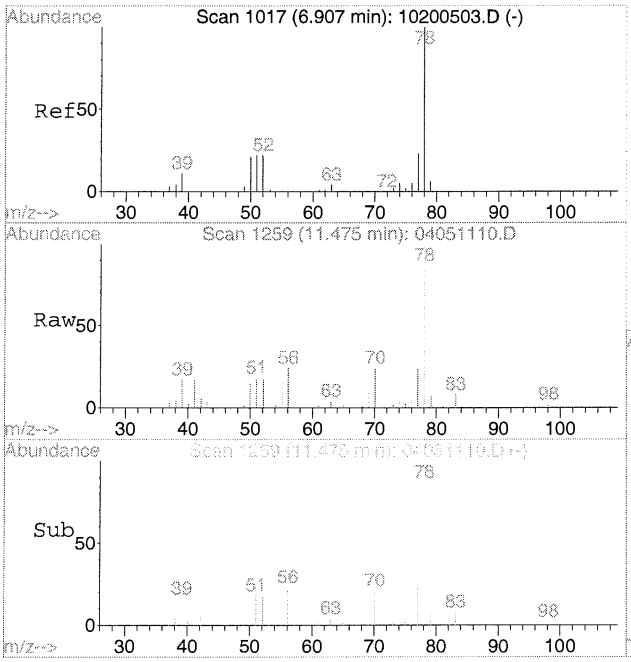


#29
Cyclohexane
Concen: 15.29 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 56 Resp: 1280296

Ion	Ratio	Lower	Upper
56	100		
84	71.9	72.4	108.6#
41	68.5	43.8	65.8#

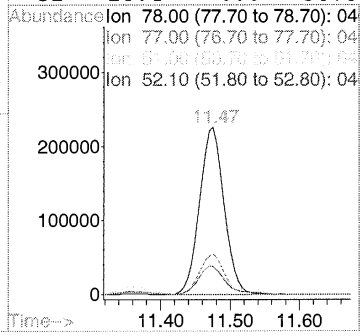


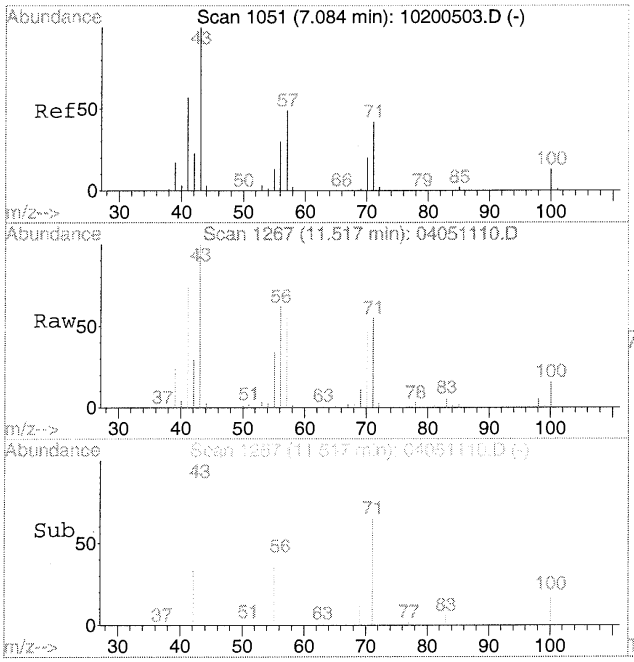


#31
Benzene
Concen: 3.95 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 78 Resp: 553474

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	18.3	0.0	36.1
52	18.4	0.0	36.0

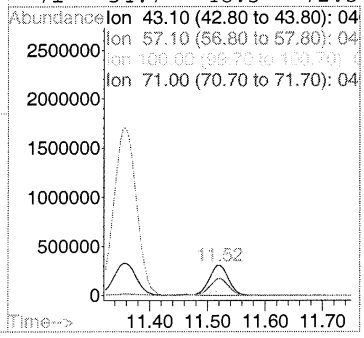


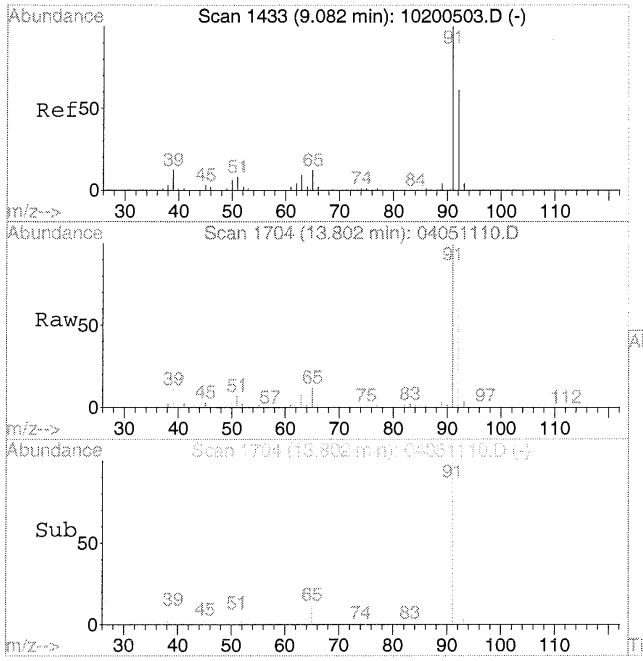


#34
Heptane
Concen: 7.65 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 43 Resp: 730842

Ion	Ratio	Lower	Upper
43	100		
57	55.5	42.2	63.4
100	14.7	17.3	25.9#
71	54.7	48.3	72.5

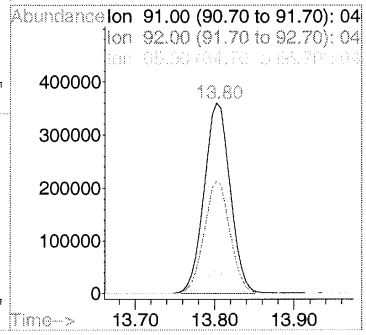


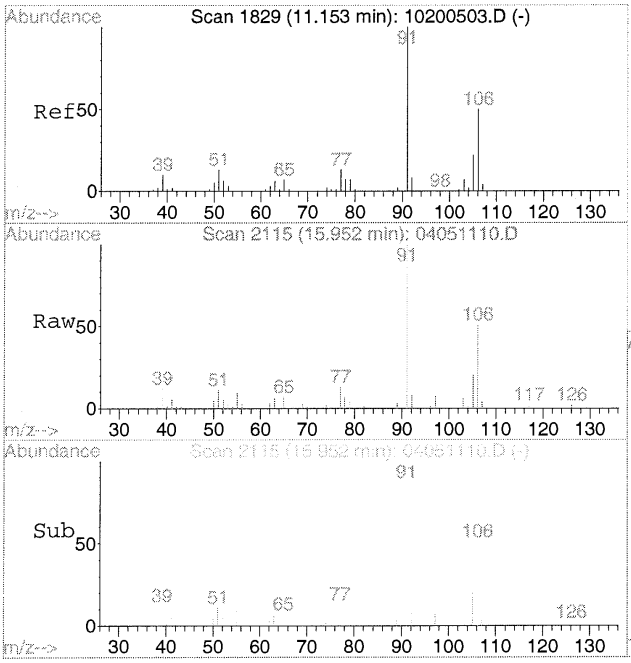


#41
Toluene
Concen: 5.54 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 91 Resp: 826332

Ion	Ratio	Lower	Upper
91	100		
92	58.7	40.5	80.5
65	11.4	0.0	31.2

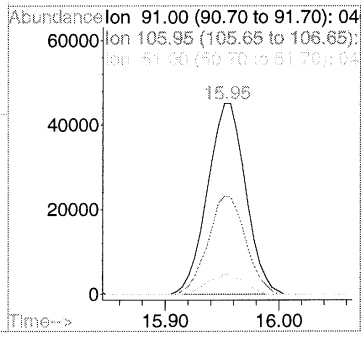




#51
m,p-Xylene
Concen: 0.83 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 91 Resp: 105062

Ion	Ratio	Lower	Upper
91	100		
106	50.9	35.6	75.6
51	10.1	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:46 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	516154	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1587533	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1514333	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	995755	13.12	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 104.96%				
Target Compounds							Qvalue
2) Propylene*	5.68	41	69216	1.79	ppbv		96
11) Ethanol*	7.74	45	32507	3.79	ppbv	#	80
14) Acetone	8.36	43	5881702	92.46	ppbv	#	88
17) Methylene chloride*	8.93	49	195410	3.76	ppbv		92
20) n-Hexane	9.39	57	8771269	116.37	ppbv	#	98
24) 2-Butanone	10.43	43	1434961	21.86	ppbv		91
29) Cyclohexane	11.04	56	8186986	107.28	ppbv	#	83
31) Benzene	11.48	78	5468002	42.85	ppbv		94
34) Heptane	11.53	43	5803284	75.69	ppbv	#	88
41) Toluene	13.81	91	10788979	90.17	ppbv		89
47) 1,2-Dibromoethane*	15.17	107	51777	0.91	ppbv		98
50) Ethylbenzene*	15.80	91	811845	4.61	ppbv		96
51) m,p-Xylene *	15.95	91	1276938	9.37	ppbv		95
52) o-Xylene *	16.55	91	308910	2.33	ppbv	#	86

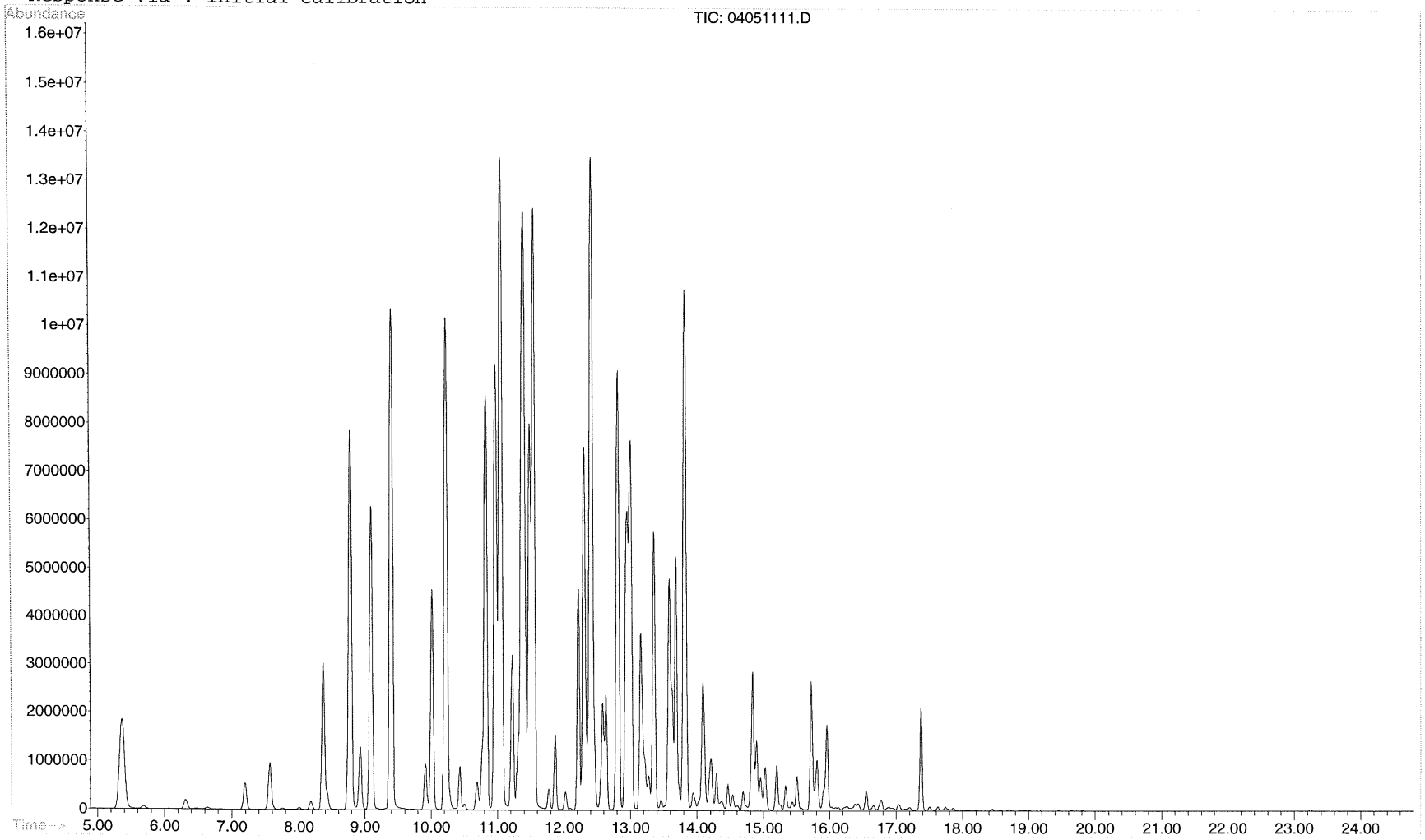
* = reported only 4/15/11 AP

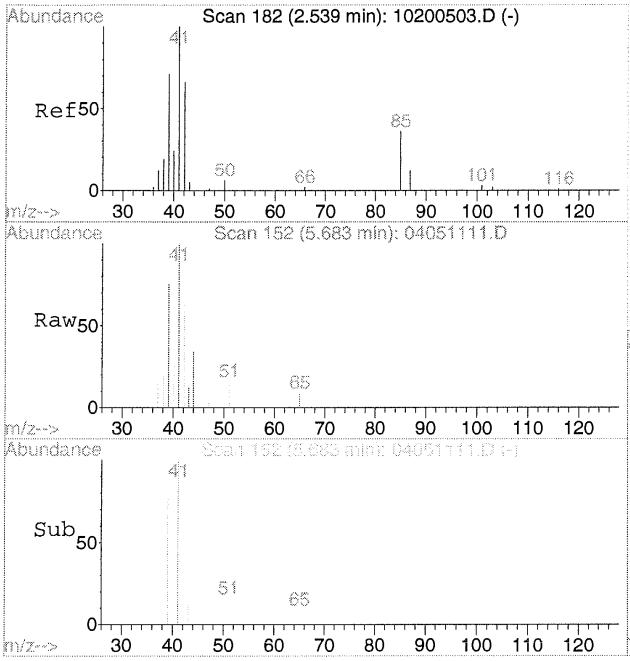
(#) = qualifier out of range (m) = manual integration
04051111.D 031611V1.M Thu Apr 14 12:37:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:46 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

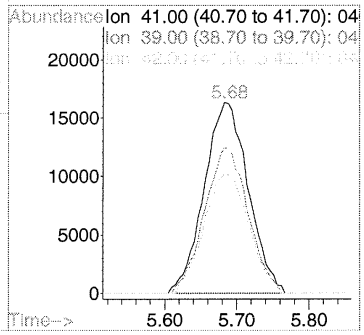


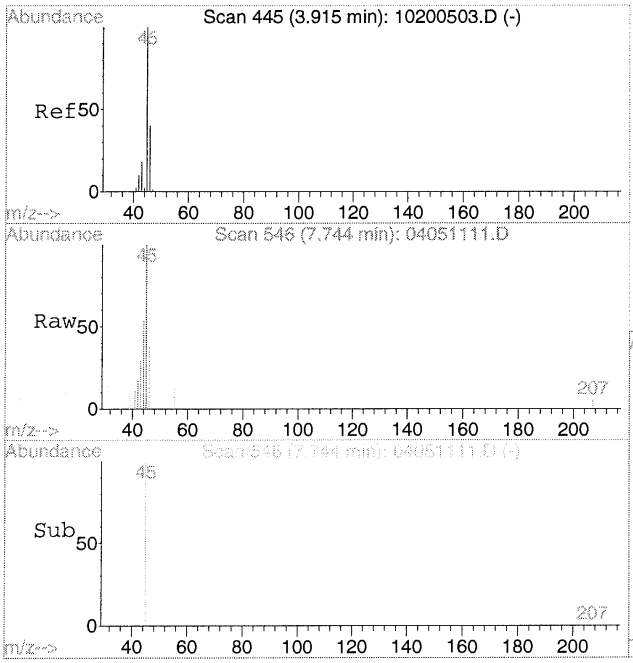


#2
Propylene
Concen: 1.79 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 41 Resp: 69216

Ion	Ratio	Lower	Upper
41	100		
39	75.4	57.6	86.4
42	64.1	54.0	81.0

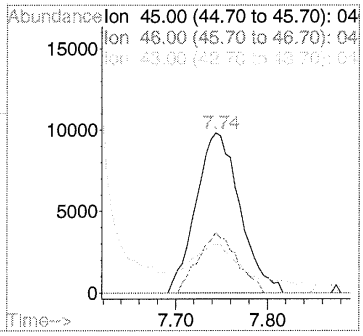


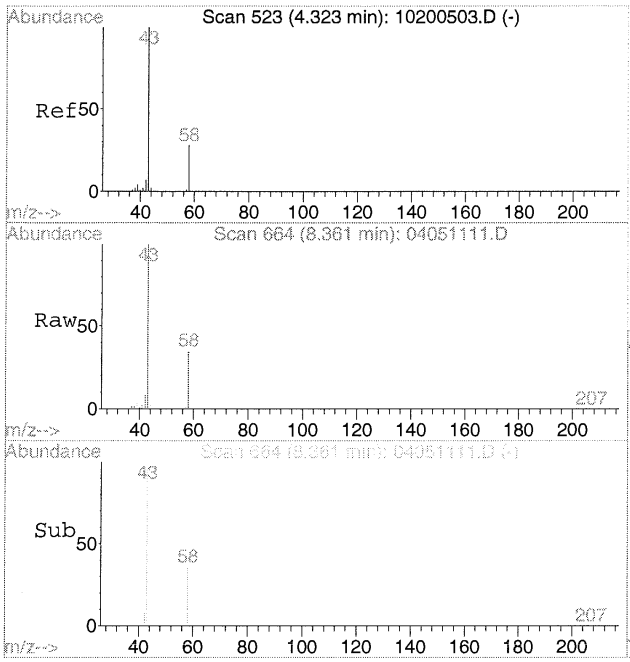


#11
Ethanol
Concen: 3.79 ppbv
RT: 7.74 min Scan# 546
Delta R.T. 0.01 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 45 Resp: 32507

Ion	Ratio	Lower	Upper
45	100		
46	33.2	30.2	45.4
43	40.0	15.8	23.6#

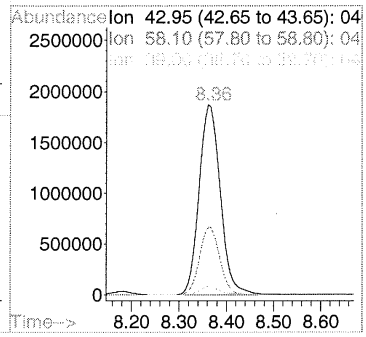


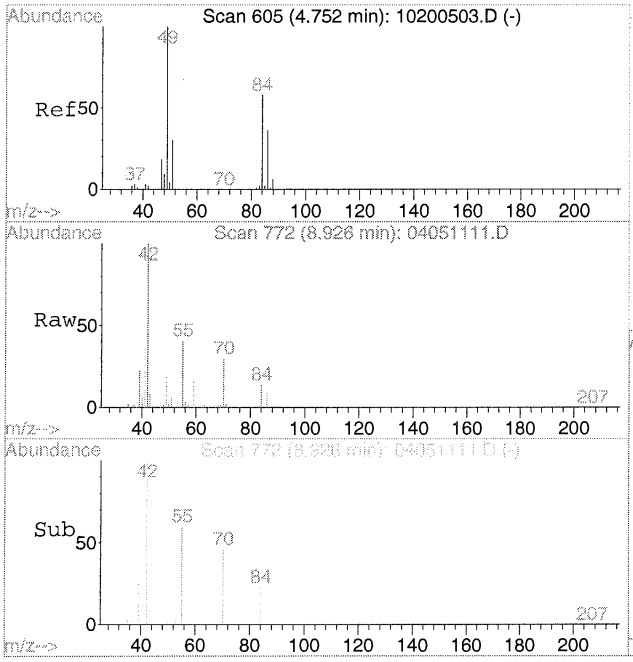


#14
Acetone
Concen: 92.46 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 43 Resp: 5881702

Ion	Ratio	Lower	Upper
43	100		
58	33.8	22.0	33.0#
39	4.7	6.5	9.7#

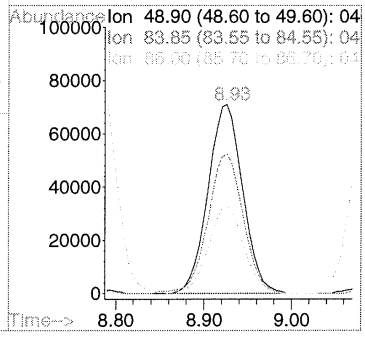


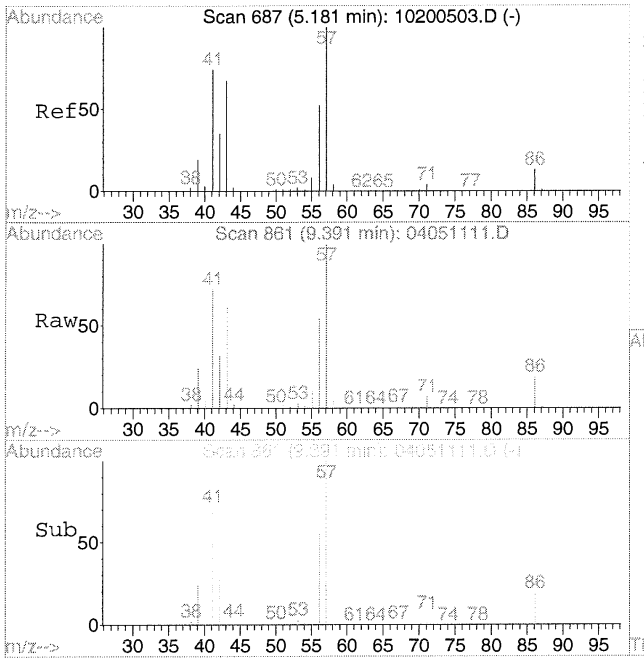


#17
Methylene chloride
Concen: 3.76 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 49 Resp: 195410

Ion	Ratio	Lower	Upper
49	100		
84	75.4	65.4	98.2
86	47.3	42.3	63.5

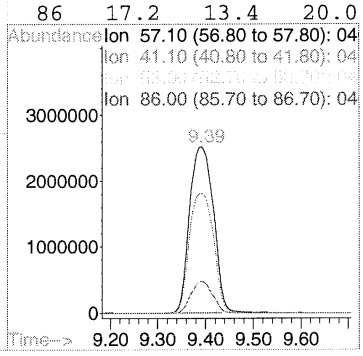


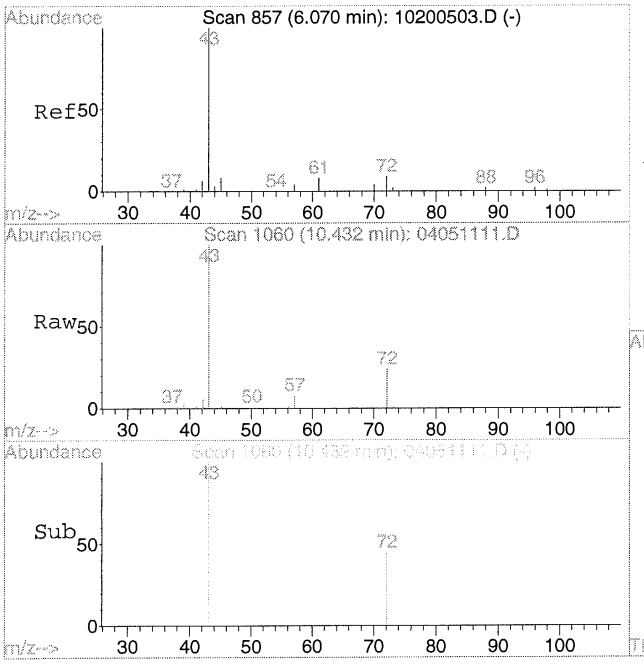


#20
n-Hexane
Concen: 116.37 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 57 Resp: 8771269

Ion	Ratio	Lower	Upper
57	100		
41	73.2	57.2	85.8
53	3.1	1.8	2.8#
86	17.2	13.4	20.0

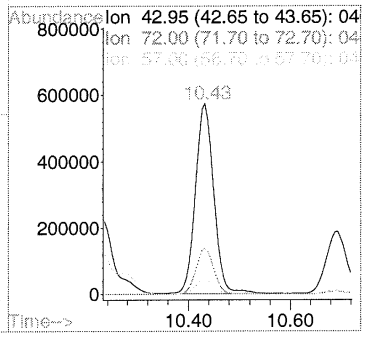


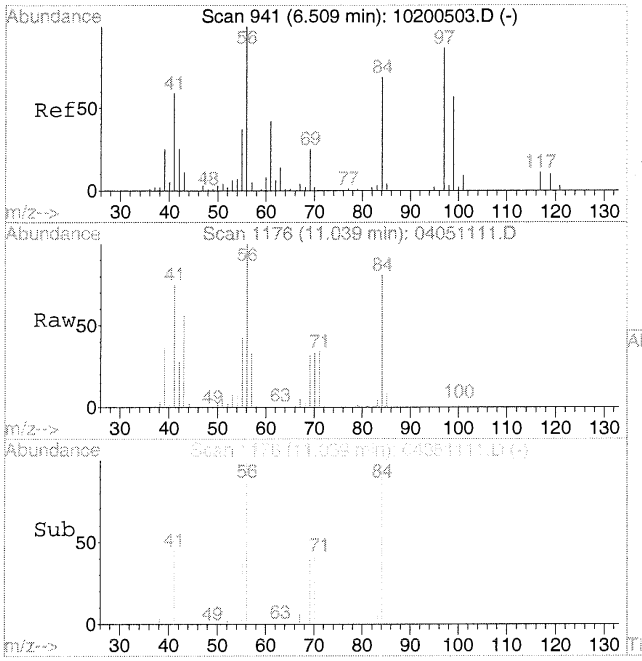


#24
2-Butanone
Concen: 21.86 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 43 Resp: 1434961

Ion	Ratio	Lower	Upper
43	100		
72	23.6	23.4	35.2
57	7.3	6.9	10.3

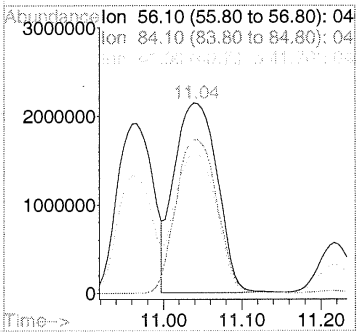


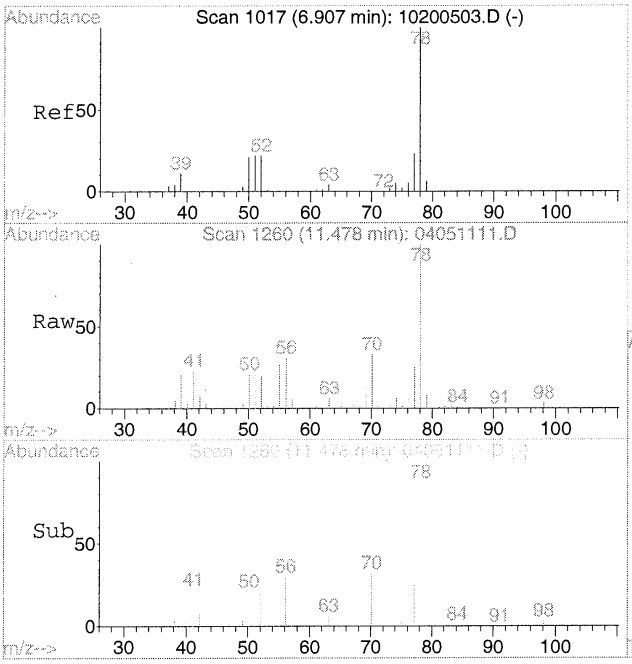


#29
Cyclohexane
Concen: 107.28 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 56 Resp: 8186986

Ion	Ratio	Lower	Upper
56	100		
84	78.2	72.4	108.6
41	71.5	43.8	65.8#

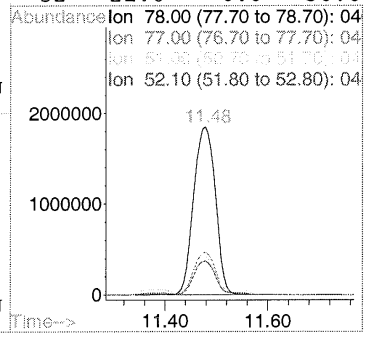


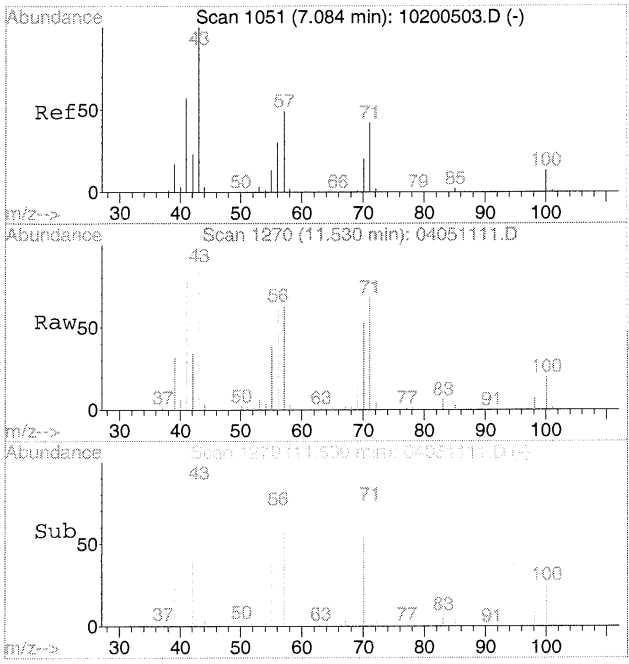


#31
Benzene
Concen: 42.85 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 78 Resp: 5468002

Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.7	43.7
51	20.2	0.0	36.1
52	21.0	0.0	36.0

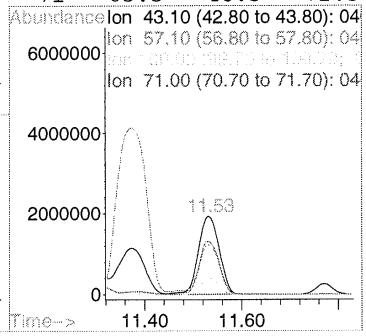


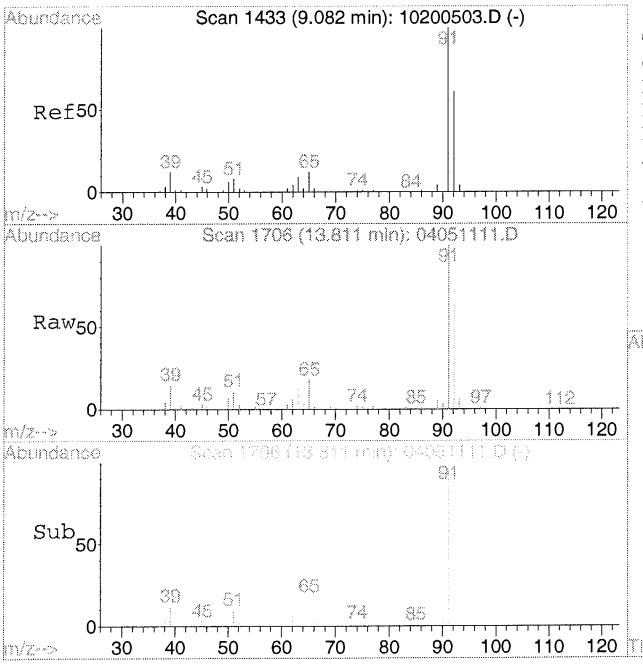


#34
Heptane
Concen: 75.69 ppbv
RT: 11.53 min Scan# 1270
Delta R.T. 0.01 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 43 Resp: 5803284

Ion	Ratio	Lower	Upper
43	100		
57	66.1	42.2	63.4#
100	18.2	17.3	25.9
71	65.5	48.3	72.5

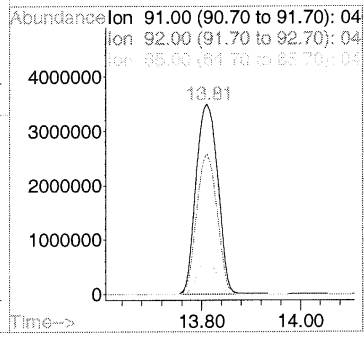


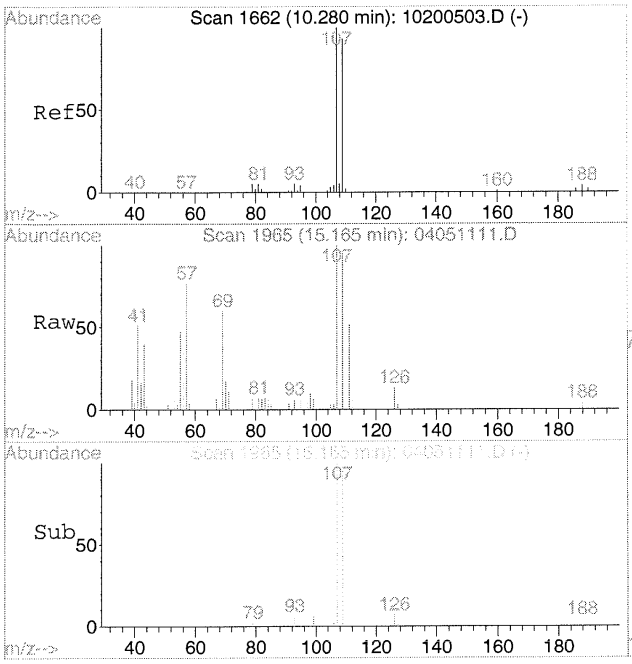


#41
Toluene
Concen: 90.17 ppbv
RT: 13.81 min Scan# 1706
Delta R.T. 0.01 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 91 Resp:10788979

Ion	Ratio	Lower	Upper
91	100		
92	69.0	40.5	80.5
65	15.9	0.0	31.2

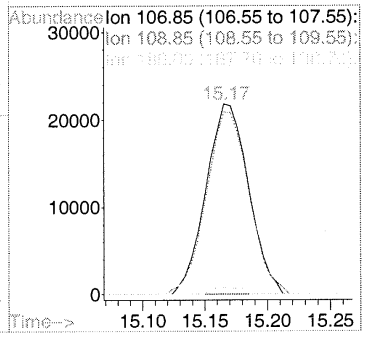


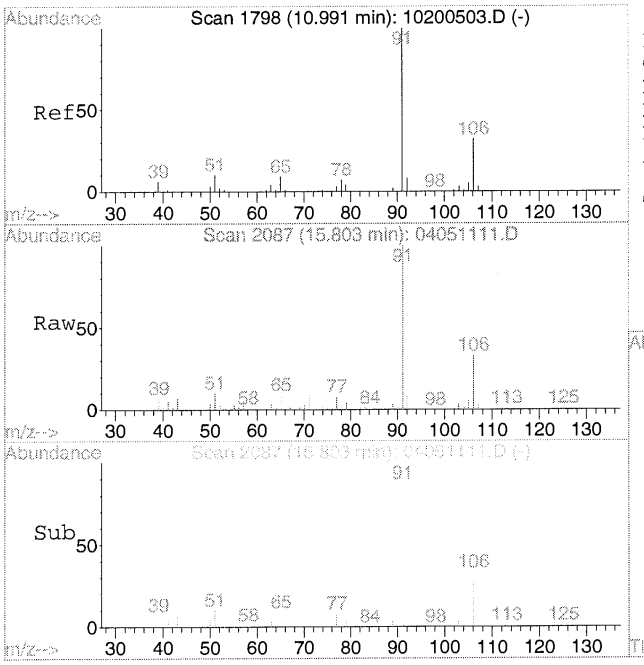


#47
1,2-Dibromoethane
Concen: 0.91 ppbv
RT: 15.17 min Scan# 1965
Delta R.T. -0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion:107 Resp: 51777

Ion	Ratio	Lower	Upper
107	100		
109	96.2	74.5	114.5
188	2.5	0.0	23.4

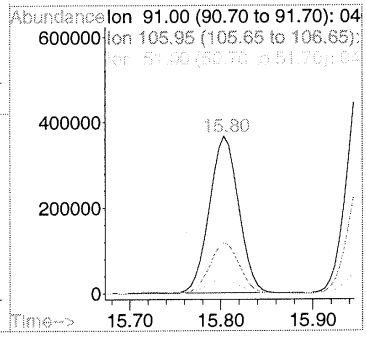


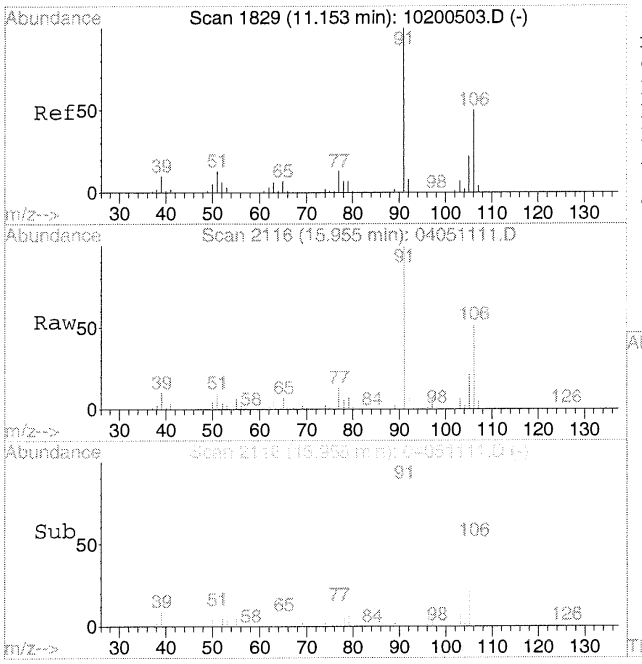


#50
Ethylbenzene
Concen: 4.61 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 91 Resp: 811845

Ion	Ratio	Lower	Upper
91	100		
106	33.0	14.9	54.9
51	10.4	0.0	33.1

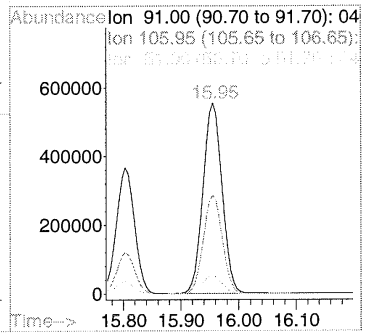


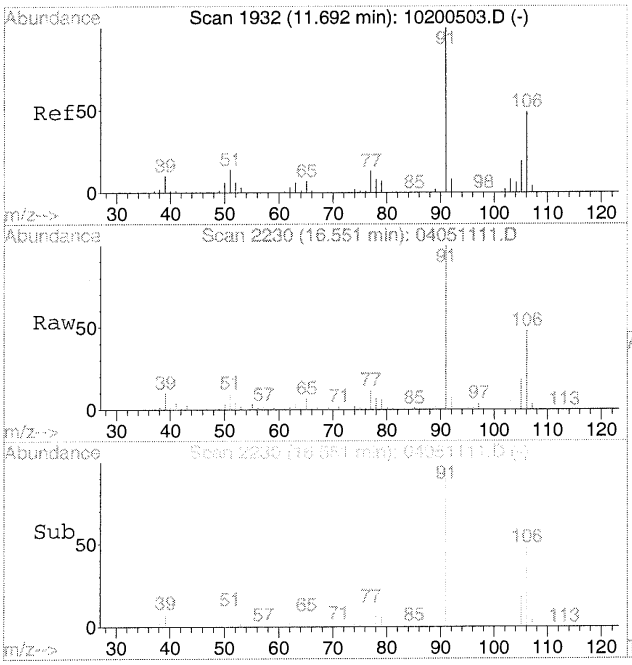


#51
m,p-Xylene
Concen: 9.37 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 91 Resp: 1276938

Ion	Ratio	Lower	Upper
91	100		
106	51.6	35.6	75.6
51	10.4	0.0	29.6

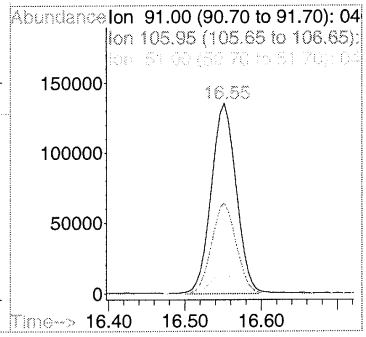




#52
o-Xylene
Concen: 2.33 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051111.D
Acq: 5 Apr 2011 4:30 pm

Tgt Ion: 91 Resp: 308910

Ion	Ratio	Lower	Upper
91	100		
106	46.3	41.0	61.6
51	11.2	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.362	63	90	119	rBV	287900	1577710	13.92%	1.577%
2	6.324	259	274	289	rBV5	51211	219925	1.94%	0.220%
3	7.192	425	440	462	rVB	532631	1838804	16.22%	1.838%
4	7.569	494	512	538	rBV	942287	2935741	25.90%	2.934%
5	8.186	617	630	645	rVB2	87122	281134	2.48%	0.281%
6	8.777	725	743	760	rBV	2220488	6897305	60.86%	6.894%
7	8.934	762	773	789	rVV	266477	782675	6.91%	0.782%
8	9.096	789	804	827	rVB	1134362	3170090	27.97%	3.169%
9	9.394	848	861	879	rBV	2013474	5098884	44.99%	5.096%
10	9.917	950	961	968	rBV2	64960	176523	1.56%	0.176%
11	10.006	968	978	996	rVB	744719	1982556	17.49%	1.982%
12	10.220	1006	1019	1042	rBV	1716906	4594498	40.54%	4.592%
13	10.764	1113	1123	1128	rBV	1218731	3143834	27.74%	3.142%
14	10.953	1147	1159	1167	rBV	1436945	3734266	32.95%	3.732%
15	11.036	1167	1175	1194	rVV2	2790380	7131314	62.92%	7.128%
16	11.214	1196	1209	1218	rVV	233995	621646	5.49%	0.621%
17	11.360	1218	1237	1250	rVV	3782076	11333295	100.00%	11.328%
18	11.470	1250	1258	1262	rVV2	835089	2053184	18.12%	2.052%
19	11.523	1262	1268	1286	rVB3	1833671	4630949	40.86%	4.629%
20	11.863	1321	1333	1351	rBV	1952716	4467838	39.42%	4.466%
21	12.197	1387	1397	1405	rBV	270646	636901	5.62%	0.637%
22	12.286	1405	1414	1424	rVV	634625	1681366	14.84%	1.681%
23	12.391	1424	1434	1457	rVV	2335856	6130858	54.10%	6.128%
24	12.569	1457	1468	1473	rVV4	132506	372153	3.28%	0.372%
25	12.621	1474	1478	1489	rVB2	157643	356493	3.15%	0.356%
26	12.794	1499	1511	1525	rBV	1117161	2845836	25.11%	2.844%
27	12.945	1525	1540	1541	rVV4	481435	1232903	10.88%	1.232%
28	12.987	1543	1548	1566	rVV	947091	2472499	21.82%	2.471%
29	13.149	1567	1579	1596	rVV2	263087	868727	7.67%	0.868%
30	13.343	1607	1616	1630	rVB	397691	1014903	8.96%	1.014%
31	13.573	1648	1660	1667	rBV	346737	968085	8.54%	0.968%
32	13.672	1673	1679	1693	rVB	315949	701263	6.19%	0.701%
33	13.803	1693	1704	1720	rVB	913147	2300867	20.30%	2.300%
34	14.080	1739	1757	1769	rBV4	174470	545978	4.82%	0.546%
35	14.195	1769	1779	1789	rVB7	62779	185413	1.64%	0.185%
36	14.828	1886	1900	1906	rBV	194958	532885	4.70%	0.533%
37	14.886	1906	1911	1918	rVV	129013	315848	2.79%	0.316%
38	14.948	1918	1923	1929	rVV3	64397	154861	1.37%	0.155%
39	15.022	1929	1937	1949	rVB4	106224	286993	2.53%	0.287%
40	15.194	1959	1970	1980	rBV2	115863	274695	2.42%	0.275%
41	15.717	2058	2070	2082	rBV	1985341	4599174	40.58%	4.597%
42	15.806	2083	2087	2098	rVV2	68066	170411	1.50%	0.170%
43	15.958	2109	2116	2125	rVB	146775	356360	3.14%	0.356%

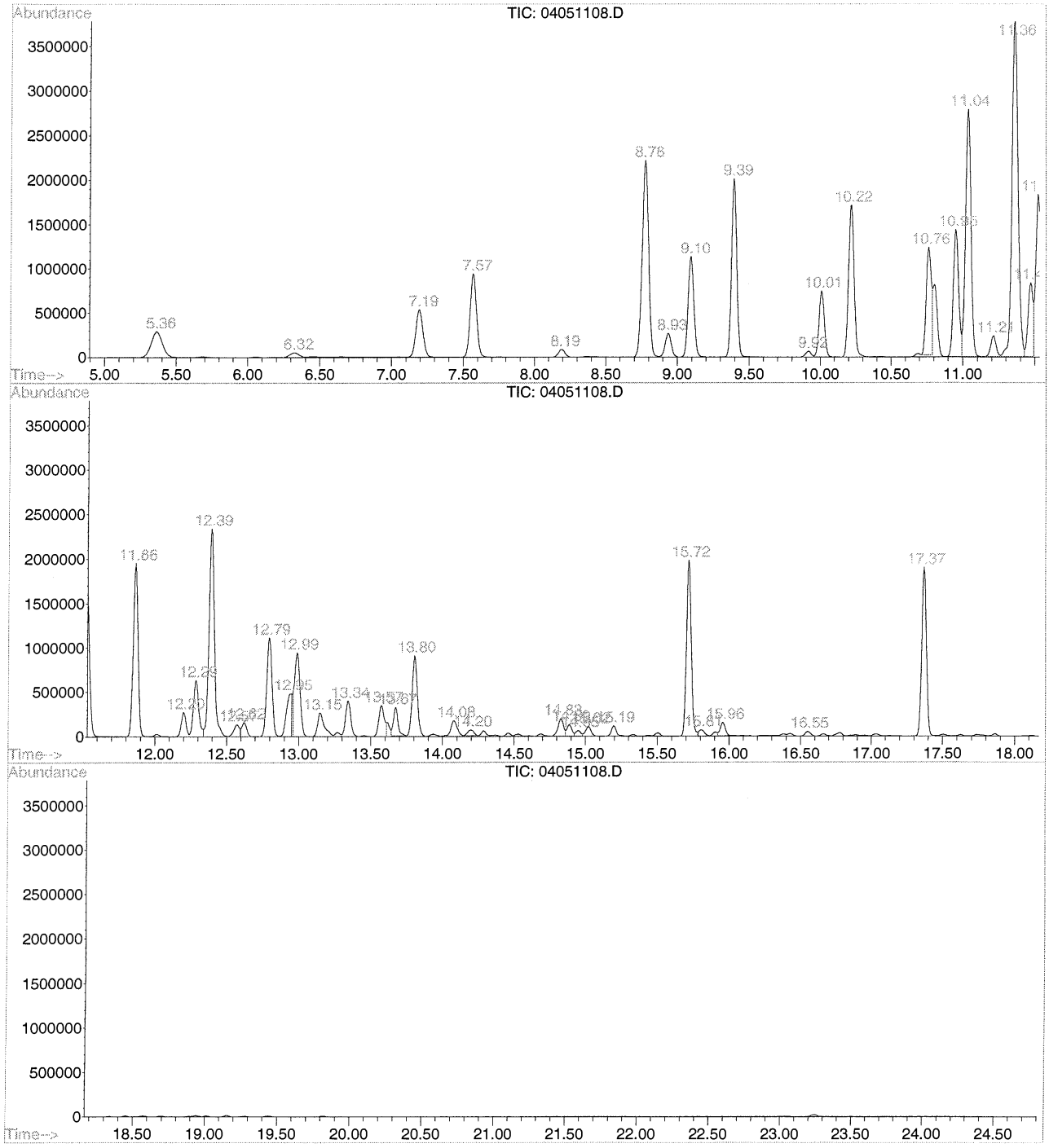
44	16.549	2218	2229	2240	rBB3	51698	134844	1.19%	0.135%
45	17.370	2373	2386	2400	rBV	1900991	4236479	37.38%	4.234%

Sum of corrected areas: 100048966

04051108.D 031611V1.M Thu Apr 14 12:37:21 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051108.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 3:06 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-010B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 5
Quant File :031611V1.RES (RTE Integrator)



04051108.D 031611V1.M Thu Apr 14 12:37:21 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	6.27 ppbv	1577710	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	7.31 ppbv	1838800	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene $$ .alpha.-Butene $$ .alph	56	C4H8	000106-98-9	9
5	Methane, isocyanato-	57	C2H3NO	000624-83-9	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	11.67 ppbv	2935740	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	36

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- $$ Isohexan Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.78	27.42 ppbv	6897310	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

****

Peak Number 5 Cyclopentane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	3.11 ppbv	782675	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	87
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	80
3	Cyclopropane, ethyl-	70	C5H10	001191-96-4	64
4	1-Pentene	70	C5H10	000109-67-1	49
5	Cyclobutane, methyl-	70	C5H10	000598-61-8	45

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	12.60 ppbv	3170090	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	43
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	7.88 ppbv	1982560	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	47

****

Peak Number 8 Cyclopentane, methyl- $$ Methy Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	18.27 ppbv	4594500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	53

****

Peak Number 9 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	14.85 ppbv	3734270	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.47 ppbv	621646	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	87
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	38
5	5-Methyl-2-hexene,c&t $$ 2-Hexene,	98	C7H14	003404-62-4	32

****

Peak Number 11 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	31.71 ppbv	11333300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.70 ppbv	1681370	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	17.15 ppbv	6130860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	7.96 ppbv	2845840	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64
4	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59
5	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	3.45 ppbv	1232900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	59
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
4	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 4-methyl- $$ 4-Methyl Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	6.92 ppbv	2472500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	59
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	53
3	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	53
4	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	43

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.43 ppbv	868727	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	72
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	50

****

Peak Number 18 Hexane, 2,2,5-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.84 ppbv	1014900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	2.71 ppbv	968085	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	90
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	90

****

Peak Number 20 Octane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.96 ppbv	701263	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 3:06 pm
Data File: C:\HPCHEM\1\DATA\040511\04051108.D
Name: 1103389-010B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	6.3	ppbv	1577710	ISTD01	10.76	3143830	12.5
Butane, 2-methyl-	7.19	7.3	ppbv	1838800	ISTD01	10.76	3143830	12.5
Pentane $$ n-Pentane	7.57	11.7	ppbv	2935740	ISTD01	10.76	3143830	12.5
Pentane, 2-methyl- $	8.78	27.4	ppbv	6897310	ISTD01	10.76	3143830	12.5
Cyclopentane	8.93	3.1	ppbv	782675	ISTD01	10.76	3143830	12.5
Pentane, 3-methyl-	9.10	12.6	ppbv	3170090	ISTD01	10.76	3143830	12.5
Pentane, 2,4-dimethy	10.01	7.9	ppbv	1982560	ISTD01	10.76	3143830	12.5
Cyclopentane, methyl	10.22	18.3	ppbv	4594500	ISTD01	10.76	3143830	12.5
Pentane, 2,3-dimethy	10.95	14.8	ppbv	3734270	ISTD01	10.76	3143830	12.5
Cyclopentane, 1,1-di	11.21	2.5	ppbv	621646	ISTD01	10.76	3143830	12.5
Butane, 2,2,3,3-tetr	11.36	31.7	ppbv	11333300	ISTD02	11.86	4467840	12.5
Hexane, 2,4-dimethyl	12.29	4.7	ppbv	1681370	ISTD02	11.86	4467840	12.5
Cyclohexane, methyl-	12.39	17.2	ppbv	6130860	ISTD02	11.86	4467840	12.5
Pentane, 2,3,4-trime	12.79	8.0	ppbv	2845840	ISTD02	11.86	4467840	12.5
Heptane, 2-methyl-	12.95	3.4	ppbv	1232900	ISTD02	11.86	4467840	12.5
Heptane, 4-methyl- $	12.99	6.9	ppbv	2472500	ISTD02	11.86	4467840	12.5
Heptane, 3-methyl-	13.15	2.4	ppbv	868727	ISTD02	11.86	4467840	12.5
Hexane, 2,2,5-trimet	13.34	2.8	ppbv	1014900	ISTD02	11.86	4467840	12.5
Cyclohexane, 1,3-dim	13.57	2.7	ppbv	968085	ISTD02	11.86	4467840	12.5
Octane	13.67	2.0	ppbv	701263	ISTD02	11.86	4467840	12.5

04051108.D 031611V1.M Thu Apr 14 12:37:22 2011

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	65	91	137	rBV	1847192	9983406	17.73%	1.454%
2	6.311	254	272	288	rBV3	194693	745161	1.32%	0.109%
3	7.194	425	441	458	rBV	541141	1786354	3.17%	0.260%
4	7.566	490	512	532	rBV	954530	3057673	5.43%	0.445%
5	8.361	649	664	694	rBV	3033373	10101183	17.94%	1.471%
6	8.769	723	742	760	rBV2	7844706	26955579	47.86%	3.925%
7	8.926	761	772	789	rVV2	1287614	3741601	6.64%	0.545%
8	9.088	789	803	828	rVV	6273120	19245581	34.17%	2.802%
9	9.391	847	861	892	rBV	10339996	35505077	63.05%	5.170%
10	9.914	942	961	969	rBV	930760	2594971	4.61%	0.378%
11	10.008	969	979	1004	rVV	4557373	12996074	23.08%	1.892%
12	10.212	1004	1018	1048	rVV	10168006	35037150	62.21%	5.102%
13	10.432	1049	1060	1069	rVV	886517	2210686	3.93%	0.322%
14	10.688	1097	1109	1116	rBV	577947	1622634	2.88%	0.236%
15	10.819	1116	1134	1148	rVV2	8560420	29995043	53.26%	4.368%
16	10.965	1148	1162	1168	rVV	9188323	28942981	51.39%	4.214%
17	11.039	1168	1176	1198	rVV	13483760	48914702	86.86%	7.122%
18	11.216	1198	1210	1219	rVV	3180438	8863032	15.74%	1.291%
19	11.379	1219	1241	1252	rVV2	12382693	56316579	100.00%	8.200%
20	11.478	1252	1260	1264	rVV	7984200	21777933	38.67%	3.171%
21	11.536	1265	1271	1306	rVV4	12431645	36949243	65.61%	5.380%
22	11.771	1306	1316	1325	rVV	418679	994223	1.77%	0.145%
23	11.865	1325	1334	1351	rVB	1530152	3548633	6.30%	0.517%
24	12.022	1353	1364	1374	rBV	365308	926147	1.64%	0.135%
25	12.215	1388	1401	1408	rBV	4568473	11311755	20.09%	1.647%
26	12.299	1408	1417	1426	rBV	6992828	19762932	35.09%	2.878%
27	12.404	1426	1437	1458	rVB2	13432331	49874991	88.56%	7.262%
28	12.582	1458	1471	1475	rBV2	2128735	5667749	10.06%	0.825%
29	12.629	1476	1480	1494	rVB	2349015	5291478	9.40%	0.770%
30	12.806	1498	1514	1527	rBV2	9076835	28357497	50.35%	4.129%
31	12.948	1527	1541	1545	rBV5	6135712	20064416	35.63%	2.922%
32	13.157	1569	1581	1599	rBV3	3624162	13267662	23.56%	1.932%
33	13.272	1599	1603	1609	rVB	378292	695604	1.24%	0.101%
34	13.350	1609	1618	1632	rVB	5707812	15695161	27.87%	2.285%
35	13.581	1646	1662	1669	rBV3	4721560	14099310	25.04%	2.053%
36	13.680	1675	1681	1695	rVB	5035076	11956488	21.23%	1.741%
37	13.811	1695	1706	1722	rVB	10696178	33632551	59.72%	4.897%
38	13.936	1722	1730	1741	rBV3	310311	931092	1.65%	0.136%
39	14.088	1749	1759	1770	rVV3	2458642	7028175	12.48%	1.023%
40	14.203	1770	1781	1791	rVB4	919852	2788848	4.95%	0.406%
41	14.287	1791	1797	1805	rVB	625205	1227955	2.18%	0.179%
42	14.459	1822	1830	1837	rBV	497772	1088054	1.93%	0.158%
43	14.532	1837	1844	1852	rVV3	281993	663272	1.18%	0.097%

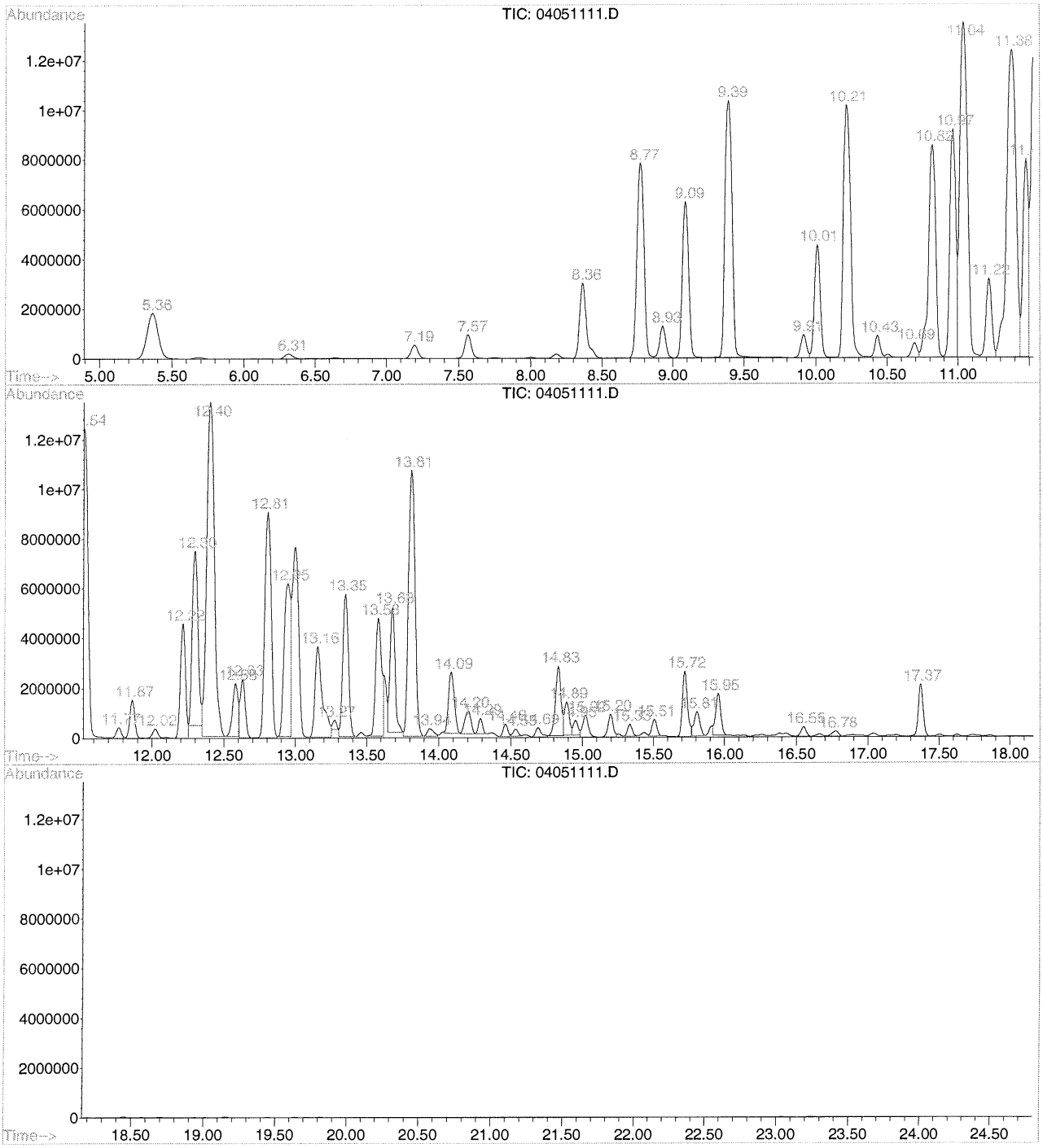
44	14.689	1865	1874	1887	rBV2	372186	1016771	1.81%	0.148%
45	14.831	1887	1901	1908	rBV	2789601	7640237	13.57%	1.112%
46	14.888	1908	1912	1919	rVV	1338364	3050850	5.42%	0.444%
47	14.951	1919	1924	1930	rVV3	589925	1393186	2.47%	0.203%
48	15.019	1930	1937	1958	rVB3	873300	2436771	4.33%	0.355%
49	15.197	1958	1971	1979	rBV	921975	2286268	4.06%	0.333%
50	15.333	1989	1997	2006	rBV2	486711	1122148	1.99%	0.163%
51	15.505	2022	2030	2040	rVB3	664747	1603058	2.85%	0.233%
52	15.720	2059	2071	2080	rBV	2630043	6602857	11.72%	0.961%
53	15.809	2081	2088	2099	rVB2	973120	2699601	4.79%	0.393%
54	15.955	2109	2116	2128	rVB	1677383	4204795	7.47%	0.612%
55	16.551	2219	2230	2240	rVB	393133	976761	1.73%	0.142%
56	16.776	2260	2273	2282	rVB5	204287	631067	1.12%	0.092%
57	17.367	2365	2386	2401	rBV	2095231	4896853	8.70%	0.713%

Sum of corrected areas: 686777859

04051111.D 031611V1.M Thu Apr 14 12:37:41 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051111.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 4:30 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-021B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 3
Quant File :031611V1.RES (RTE Integrator)



04051111.D 031611V1.M Thu Apr 14 12:37:42 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Pentane, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	11.23 ppbv	26955600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	81
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	47

****

Peak Number 2 Pentane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	8.02 ppbv	19245600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	40

****

Peak Number 3 Cyclopentane, methyl- $$ Methy Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	14.60 ppbv	35037200	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
5	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Hexane, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.82	12.50 ppbv	29995000	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	74
2	2-Pyrrolidinone	85	C4H7NO	000616-45-5	50
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	49
4	Hexane, 2-methyl-	100	C7H16	000591-76-4	49
5	Furan, tetrahydro-2,4-dimethyl-, tr	100	C6H12O	039168-02-0	47

****

Peak Number 5 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	12.06 ppbv	28943000	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90

****

Peak Number 6 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.38	198.37 ppbv	56316600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Heptane, 2,2,3,5-tetramethyl-	156	C11H24	061868-42-6	72
4	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	59
5	Pentane, 2,2,4,4-tetramethyl- $$ Di	128	C9H20	001070-87-7	59

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	39.85 ppbv	11311800	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	53
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	1-Pyrrolidinecarboxaldehyde $$ N-Fo	99	C5H9NO	003760-54-1	47

****

Peak Number 8 Hexane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	69.61 ppbv	19762900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	56
4	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	43
5	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	38

****

Peak Number 9 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	175.68 ppbv	49875000	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	72
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	64
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	53
4	Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	53
5	3-Penten-2-one, 4-methyl- $$ Aceton	98	C6H10O	000141-79-7	52

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	19.96 ppbv	5667750	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	91
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	56
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	55
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43

****

Peak Number 11 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	18.64 ppbv	5291480	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	56
3	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	47
4	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	45
5	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	39

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.81	99.89 ppbv	28357500	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
2	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	64
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
4	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	70.68 ppbv	20064400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
2	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	56
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	52
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Pyrrolidine	71	C4H9N	000123-75-1	47

****

Peak Number 14 Heptane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	46.74 ppbv	13267700	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50

****

Peak Number 15 Hexane, 2,2,5-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	55.29 ppbv	15695200	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	78
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	49.66 ppbv	14099300	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 17 Octane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	42.12 ppbv	11956500	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane	114	C8H18	000111-65-9	87
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72

****

Peak Number 18 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.09	13.31 ppbv	7028180	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	83
5	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	81

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051111.D Vial: 3
Acq On : 5 Apr 2011 4:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, ethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	14.46 ppbv	7640240	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

****

Peak Number 20 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	5.78 ppbv	3050850	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
2	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	40
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	28
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	28
5	1,1,4-Trimethylcyclohexane $$ Cyclo	126	C9H18	007094-27-1	9

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 4:30 pm
Data File: C:\HPCHEM\1\DATA\040511\04051111.D
Name: 1103389-021B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Pentane, 2-methyl-	8.77	11.2	ppbv	26955600	ISTD01	10.77	29995000	12.5
Pentane, 3-methyl-	9.09	8.0	ppbv	19245600	ISTD01	10.77	29995000	12.5
Cyclopentane, methyl	10.21	14.6	ppbv	35037200	ISTD01	10.77	29995000	12.5
Hexane, 2-methyl-	10.82	12.5	ppbv	29995000	ISTD01	10.77	29995000	12.5
Pentane, 2,3-dimethy	10.97	12.1	ppbv	28943000	ISTD01	10.77	29995000	12.5
Hexane, 2,2-dimethyl	11.38	198.4	ppbv	56316600	ISTD02	11.87	3548630	12.5
Hexane, 2,5-dimethyl	12.22	39.8	ppbv	11311800	ISTD02	11.87	3548630	12.5
Hexane, 2,4-dimethyl	12.30	69.6	ppbv	19762900	ISTD02	11.87	3548630	12.5
Cyclohexane, methyl-	12.40	175.7	ppbv	49875000	ISTD02	11.87	3548630	12.5
Cyclopentane, ethyl-	12.58	20.0	ppbv	5667750	ISTD02	11.87	3548630	12.5
Cyclopentane, 1,2,4-	12.63	18.6	ppbv	5291480	ISTD02	11.87	3548630	12.5
Pentane, 2,3,4-trime	12.81	99.9	ppbv	28357500	ISTD02	11.87	3548630	12.5
Heptane, 2-methyl-	12.95	70.7	ppbv	20064400	ISTD02	11.87	3548630	12.5
Heptane, 3-methyl-	13.16	46.7	ppbv	13267700	ISTD02	11.87	3548630	12.5
Hexane, 2,2,5-trimet	13.35	55.3	ppbv	15695200	ISTD02	11.87	3548630	12.5
Cyclohexane, 1,3-dim	13.58	49.7	ppbv	14099300	ISTD02	11.87	3548630	12.5
Octane	13.68	42.1	ppbv	11956500	ISTD02	11.87	3548630	12.5
Cyclohexane, 1,2-dim	14.09	13.3	ppbv	7028180	ISTD03	15.72	6602860	12.5
Cyclohexane, ethyl-	14.83	14.5	ppbv	7640240	ISTD03	15.72	6602860	12.5
Cyclohexane, 1,1,3-t	14.89	5.8	ppbv	3050850	ISTD03	15.72	6602860	12.5

04051111.D 031611V1.M Thu Apr 14 12:37:43 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:47 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

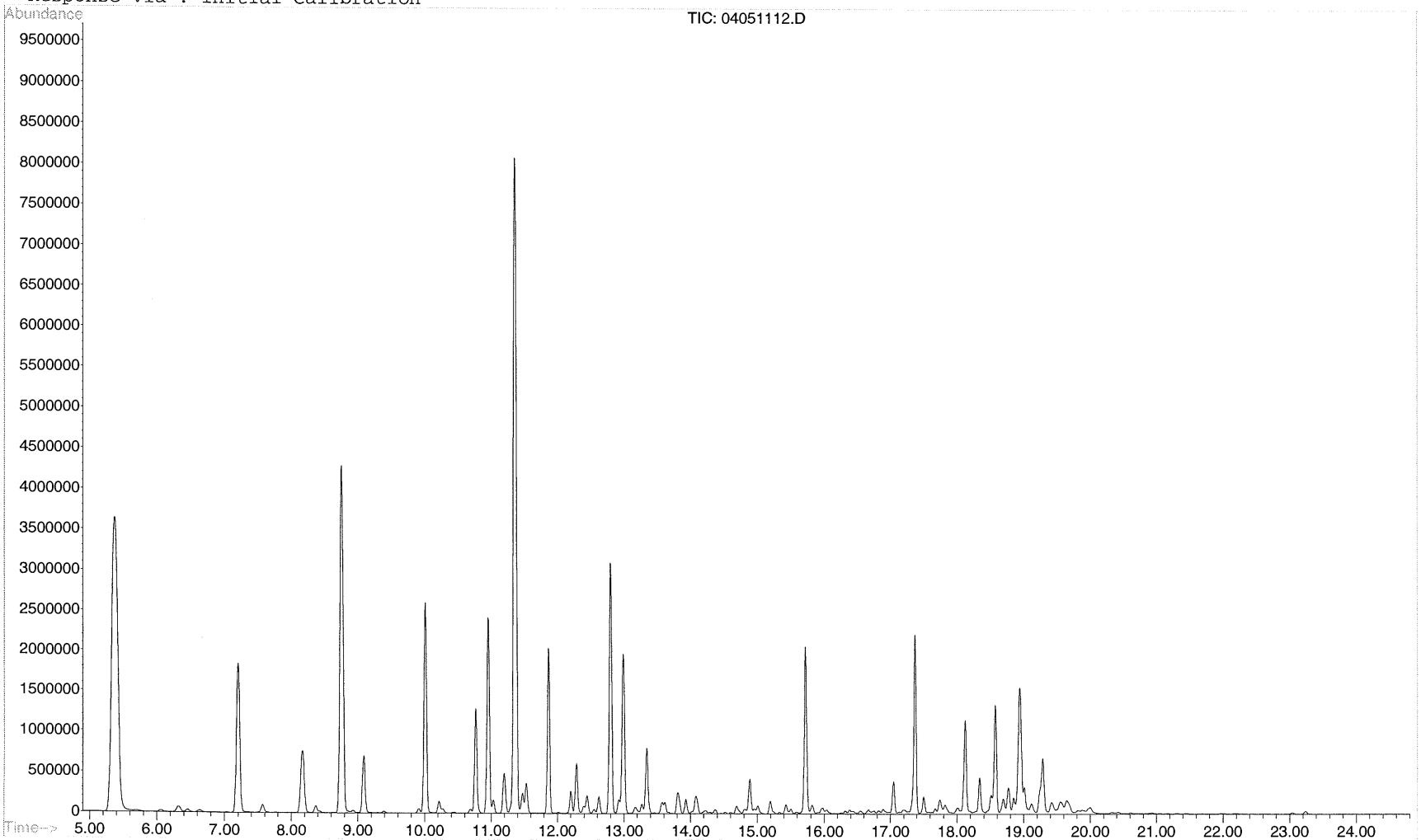
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	577909	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2078942	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1536000	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	984622	12.79	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 102.32%				
Target Compounds							Qvalue
12) Freon113	8.15	101	277108	2.54	ppbv		95
14) Acetone	8.37	43	166279	2.33	ppbv	#	95
29) Cyclohexane	11.21	56	51993	0.61	ppbv		93
30) Carbon tetrachloride	11.19	117	298061	2.86	ppbv		99
31) Benzene	11.48	78	184067	1.29	ppbv		95
35) Trichloroethene	12.21	130	42076	0.59	ppbv		97
41) Toluene	13.80	91	183468	1.17	ppbv		97

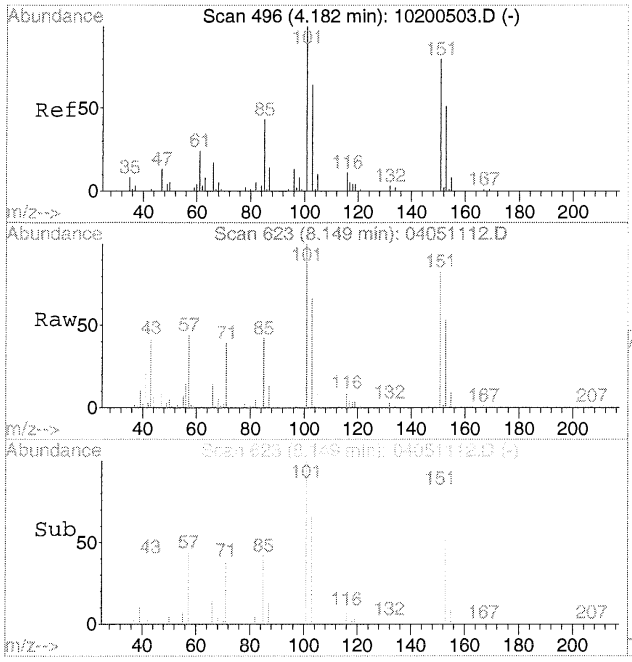
(#) = qualifier out of range (m) = manual integration
04051112.D 031611V1.M Thu Apr 14 12:40:05 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:47 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

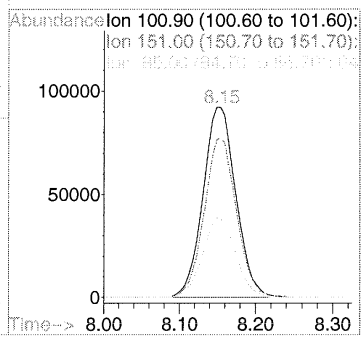


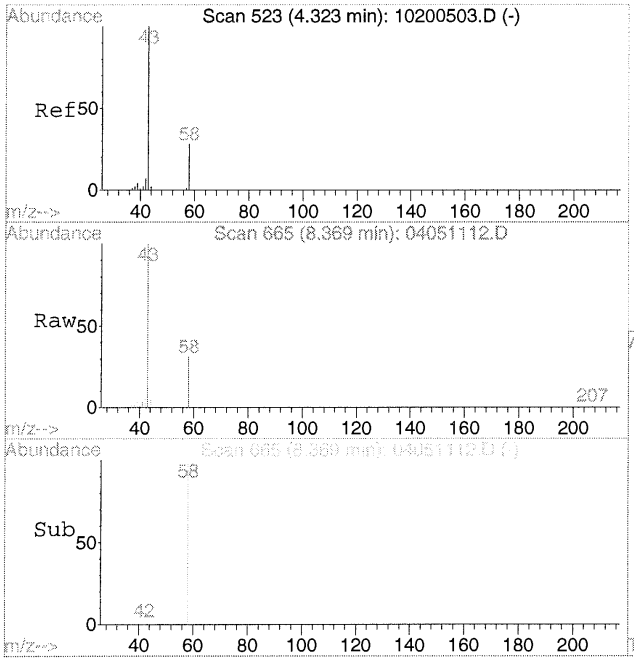


#12
Freon113
Concen: 2.54 ppbv
RT: 8.15 min Scan# 623
Delta R.T. -0.02 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion:101 Resp: 277108

Ion	Ratio	Lower	Upper
101	100		
151	82.2	70.5	105.7
85	41.8	32.0	48.0

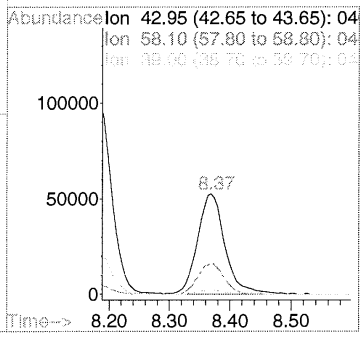


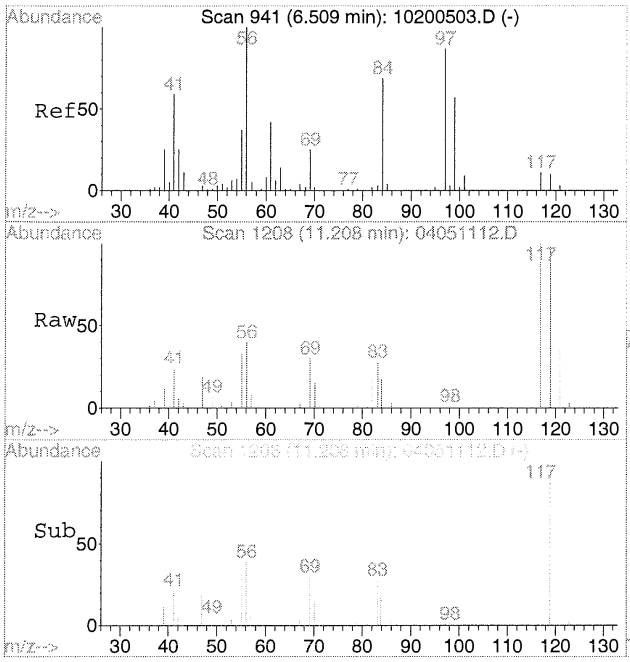


#14
Acetone
Concen: 2.33 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion: 43 Resp: 166279

Ion	Ratio	Lower	Upper
43	100		
58	29.2	22.0	33.0
39	4.5	6.5	9.7#

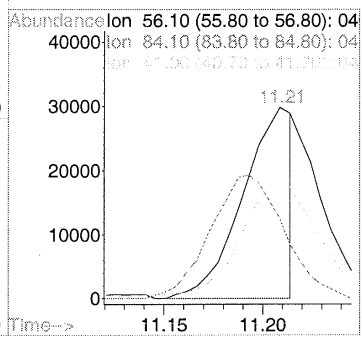


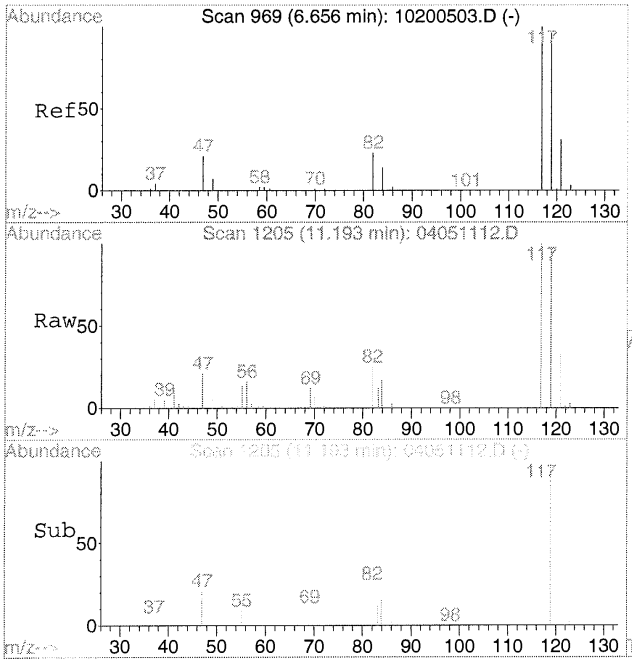


#29
Cyclohexane
Concen: 0.61 ppbv
RT: 11.21 min Scan# 1208
Delta R.T. 0.17 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion: 56 Resp: 51993

Ion	Ratio	Lower	Upper
56	100		
84	87.9	72.4	108.6
41	64.8	43.8	65.8

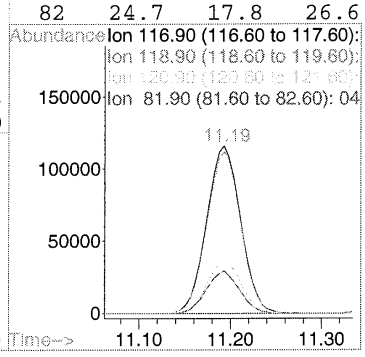


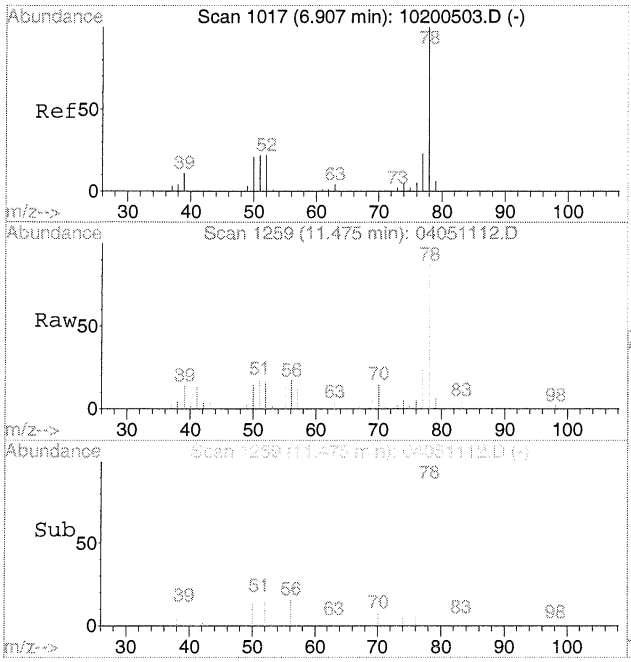


#30
Carbon tetrachloride
Concen: 2.86 ppbv
RT: 11.19 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion:117 Resp: 298061

Ion	Ratio	Lower	Upper
117	100		
119	97.0	78.2	117.2
121	31.7	25.6	38.4
82	24.7	17.8	26.6

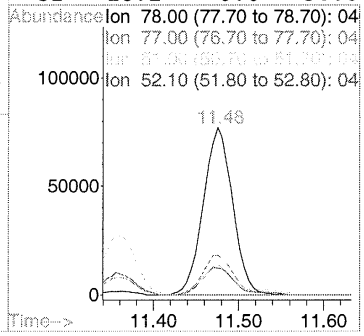


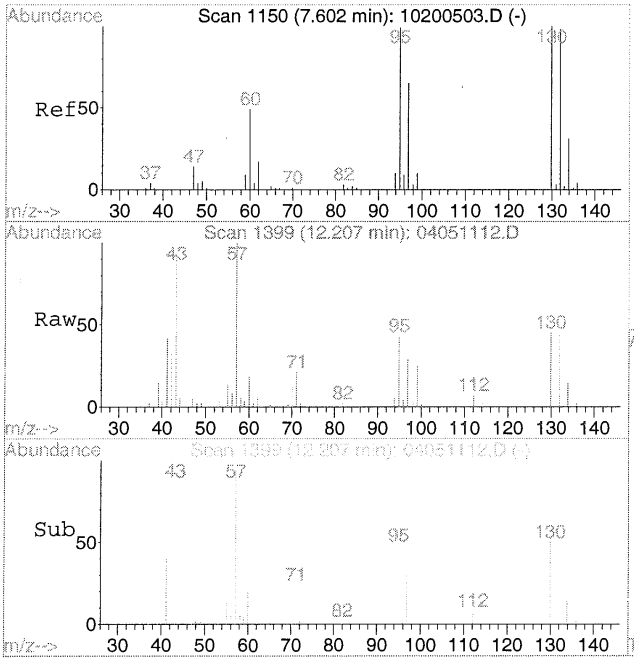


#31
Benzene
Concen: 1.29 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion: 78 Resp: 184067

Ion	Ratio	Lower	Upper
78	100		
77	25.4	3.7	43.7
51	18.6	0.0	36.1
52	18.1	0.0	36.0

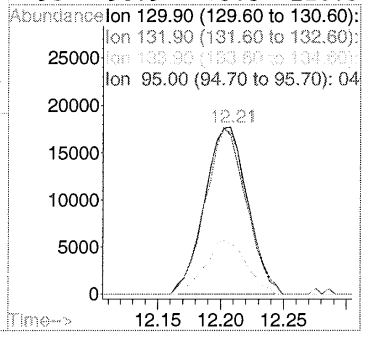


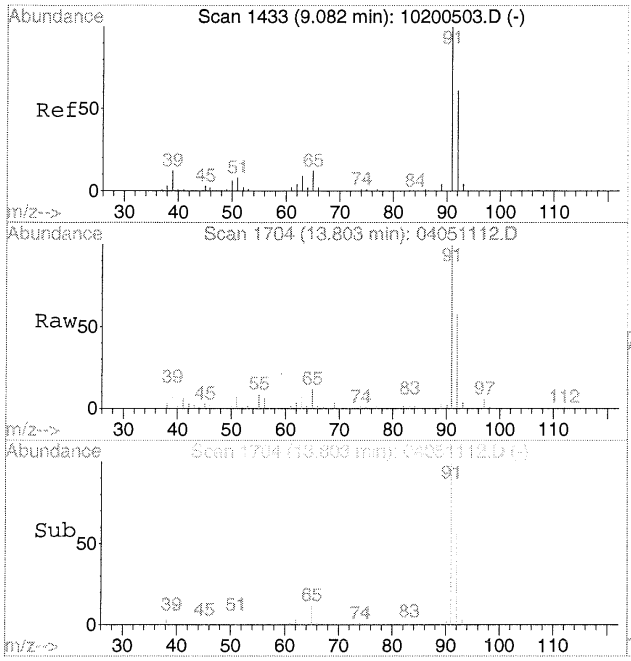


#35
Trichloroethene
Concen: 0.59 ppbv
RT: 12.21 min Scan# 1399
Delta R.T. 0.00 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion:130 Resp: 42076

Ion	Ratio	Lower	Upper
130	100		
132	97.0	77.9	116.9
134	30.7	25.4	38.0
95	96.9	73.5	110.3

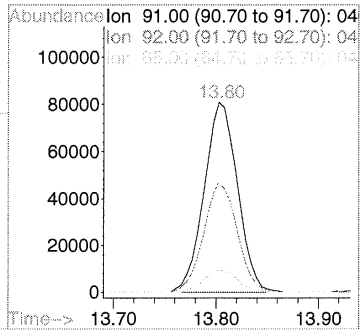




#41
Toluene
Concen: 1.17 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051112.D
Acq: 5 Apr 2011 5:13 pm

Tgt Ion: 91 Resp: 183468

Ion	Ratio	Lower	Upper
91	100		
92	58.0	40.5	80.5
65	11.8	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.366	61	91	137	rBV	3637552	23271431	92.75%	14.961%
2	6.324	259	274	288	rBV4	67763	282297	1.13%	0.181%
3	7.197	423	441	468	rBV	1840017	6360534	25.35%	4.089%
4	7.568	500	512	523	rBV2	92169	271035	1.08%	0.174%
5	8.165	611	626	650	rVB3	754519	2906819	11.59%	1.869%
6	8.756	722	739	765	rBV	4283307	14235154	56.73%	9.152%
7	9.085	790	802	820	rVB	688859	1936308	7.72%	1.245%
8	10.006	966	978	997	rVB	2596055	6855724	27.32%	4.408%
9	10.215	1007	1018	1026	rBV2	140426	409183	1.63%	0.263%
10	10.764	1113	1123	1144	rVV	1279450	3254079	12.97%	2.092%
11	10.952	1146	1159	1169	rVV	2411924	6267394	24.98%	4.029%
12	11.036	1169	1175	1191	rVV3	157724	398200	1.59%	0.256%
13	11.198	1193	1206	1217	rBV2	477971	1386286	5.52%	0.891%
14	11.355	1217	1236	1250	rVV	8083457	25091229	100.00%	16.131%
15	11.470	1251	1258	1264	rVV	242765	662701	2.64%	0.426%
16	11.533	1264	1270	1294	rVB2	366055	928609	3.70%	0.597%
17	11.862	1322	1333	1353	rBV	2032743	4681095	18.66%	3.010%
18	12.202	1383	1398	1405	rBV2	269034	661725	2.64%	0.425%
19	12.286	1405	1414	1426	rVV	606547	1533681	6.11%	0.986%
20	12.443	1438	1444	1456	rVV	216011	566511	2.26%	0.364%
21	12.621	1471	1478	1490	rVB	205843	508972	2.03%	0.327%
22	12.793	1498	1511	1526	rBV	3096158	7866549	31.35%	5.057%
23	12.924	1526	1536	1539	rVV	166424	385685	1.54%	0.248%
24	12.987	1539	1548	1566	rVB	1962790	5224288	20.82%	3.359%
25	13.170	1572	1583	1594	rBV3	77131	261613	1.04%	0.168%
26	13.269	1594	1602	1607	rVV2	111888	285321	1.14%	0.183%
27	13.342	1607	1616	1632	rVB	791986	2060389	8.21%	1.325%
28	13.573	1649	1660	1664	rBV4	132089	339531	1.35%	0.218%
29	13.813	1694	1706	1719	rBV4	254770	834858	3.33%	0.537%
30	13.928	1719	1728	1740	rBV	173420	433504	1.73%	0.279%
31	14.080	1740	1757	1770	rVB4	211209	750216	2.99%	0.482%
32	14.692	1864	1874	1888	rBV4	90907	292934	1.17%	0.188%
33	14.885	1903	1911	1920	rVB	385118	920001	3.67%	0.591%
34	15.006	1929	1934	1951	rVB4	95329	264082	1.05%	0.170%
35	15.194	1960	1970	1988	rBV2	155950	442347	1.76%	0.284%
36	15.429	2006	2015	2023	rBV	114487	294313	1.17%	0.189%
37	15.717	2054	2070	2083	rBV	2046651	4878161	19.44%	3.136%
38	15.821	2083	2090	2099	rVB4	97538	253991	1.01%	0.163%
39	17.045	2314	2324	2334	rVB	385630	895610	3.57%	0.576%
40	17.370	2370	2386	2400	rVB2	2196867	5375059	21.42%	3.456%
41	17.500	2400	2411	2422	rBV3	196115	491965	1.96%	0.316%
42	17.746	2450	2458	2467	rVV4	155475	481453	1.92%	0.310%
43	17.825	2467	2473	2486	rVB3	96349	295908	1.18%	0.190%

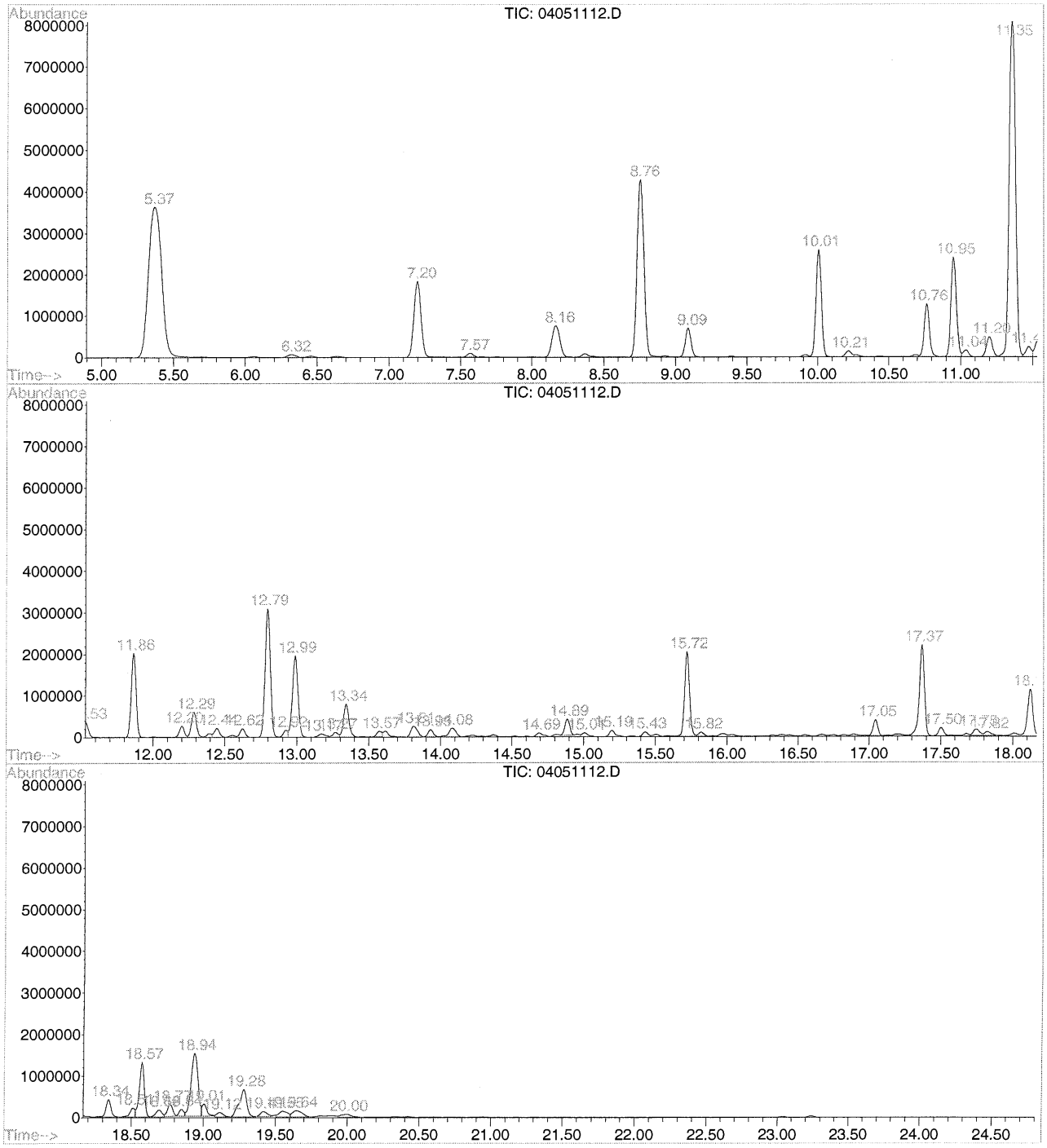
44	18.123	2518	2530	2550	rVB	1122260	2863575	11.41%	1.841%
45	18.337	2552	2571	2588	rVB	422470	1051336	4.19%	0.676%
46	18.510	2588	2604	2607	rBV2	215024	528413	2.11%	0.340%
47	18.573	2608	2616	2627	rVB	1310421	3182488	12.68%	2.046%
48	18.693	2627	2639	2646	rBV3	162938	492245	1.96%	0.316%
49	18.771	2646	2654	2662	rVV3	291167	751948	3.00%	0.483%
50	18.844	2662	2668	2673	rVV	161641	374232	1.49%	0.241%
51	18.939	2674	2686	2695	rVV2	1509288	5101236	20.33%	3.280%
52	19.007	2696	2699	2712	rVV2	289299	627417	2.50%	0.403%
53	19.116	2713	2720	2733	rVB4	105397	323010	1.29%	0.208%
54	19.284	2733	2752	2768	rBV3	651586	2396653	9.55%	1.541%
55	19.415	2768	2777	2789	rBV3	118220	415531	1.66%	0.267%
56	19.551	2794	2803	2813	rVV4	137768	597072	2.38%	0.384%
57	19.645	2814	2821	2842	rVB6	150457	697216	2.78%	0.448%
58	19.995	2877	2888	2910	rVB5	72151	344608	1.37%	0.222%

Sum of corrected areas: 155543725

04051112.D 031611V1.M Thu Apr 14 12:40:10 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051112.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 5:13 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-034B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 4
Quant File :031611V1.RES (RTE Integrator)



04051112.D 031611V1.M Thu Apr 14 12:40:10 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	89.39 ppbv	23271400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	24.43 ppbv	6360530	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Azetidine	57	C3H7N	000503-29-7	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 3 Butane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	54.68 ppbv	14235200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	7.44 ppbv	1936310	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	40

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	26.34 ppbv	6855720	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	24.08 ppbv	6267390	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	67.00 ppbv	25091200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	64

****

Peak Number 8 Cyclopentane, 1,3-dimethyl-, c Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.53	2.48 ppbv	928609	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	93
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	90
3	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	90
4	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	87
5	Cyclopentane, 1,2-dimethyl-, cis- $	98	C7H14	001192-18-3	78

****

Peak Number 9 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.10 ppbv	1533680	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	60
2	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3,4-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	21.01 ppbv	7866550	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	86
4	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	74
5	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	64

****

Peak Number 11 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	13.95 ppbv	5224290	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	90
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
3	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59
4	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	56
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	50

****

Peak Number 12 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	5.50 ppbv	2060390	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	2.36 ppbv	920001	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	95
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	70
3	4-Amino-6-hydroxypyrimidine $$ 4(1H	111	C4H5N3O	001193-22-2	64
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	49

****

Peak Number 14 Decane, 2,5,6-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	2.29 ppbv	895610	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,5,6-trimethyl-	184	C13H28	062108-23-0	64
2	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	59
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	50
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	47
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	47

****

Peak Number 15 Dodecane, 2,2,11,11-tetramethy Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	7.34 ppbv	2863580	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	83
2	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	72
3	Decane, 2,2,8-trimethyl-	184	C13H28	062238-01-1	72
4	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	72
5	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Tetradecane, 2,2-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	2.69 ppbv	1051340	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
4	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	72
5	Decane, 2,2,9-trimethyl-	184	C13H28	062238-00-0	72

****

Peak Number 17 Undecane, 3,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	8.15 ppbv	3182490	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3,4-dimethyl-	184	C13H28	017312-78-6	56
2	Heneicosane $$ n-Heneicosane	296	C21H44	000629-94-7	56
3	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	53
4	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	50
5	Heptadecane, 8-methyl- $$ 8-Methylh	254	C18H38	013287-23-5	50

****

Peak Number 18 Undecane, 2,9-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	1.93 ppbv	751948	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	64
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	53
3	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	53
4	Dodecane, 3-methyl- $$ 3-Methyldode	184	C13H28	017312-57-1	50
5	Decane, 3-methyl-	156	C11H24	013151-34-3	45

Data File : C:\HPCHEM\1\DATA\040511\04051112.D Vial: 4
Acq On : 5 Apr 2011 5:13 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Hexane, 2,2,5-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	13.07 ppbv	5101240	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
2	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	59
3	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	53
4	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	53
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	53

****

Peak Number 20 Undecane, 2,8-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.28	6.14 ppbv	2396650	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	64
2	Undecane, 4,8-dimethyl-	184	C13H28	017301-33-6	64
3	Decane, 5-propyl-	184	C13H28	017312-62-8	50
4	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	47
5	Octane, 2,3,6,7-tetramethyl-	170	C12H26	052670-34-5	45

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 5:13 pm
Data File: C:\HPCHEM\1\DATA\040511\04051112.D
Name: 1103389-034B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.37	89.4	ppbv	23271400	ISTD01	10.76	3254080	12.5
Butane, 2-methyl-	7.20	24.4	ppbv	6360530	ISTD01	10.76	3254080	12.5
Butane, 2,3-dimethyl	8.76	54.7	ppbv	14235200	ISTD01	10.76	3254080	12.5
Pentane, 3-methyl-	9.09	7.4	ppbv	1936310	ISTD01	10.76	3254080	12.5
Pentane, 2,4-dimethy	10.01	26.3	ppbv	6855720	ISTD01	10.76	3254080	12.5
Pentane, 2,3-dimethy	10.95	24.1	ppbv	6267390	ISTD01	10.76	3254080	12.5
Butane, 2,2,3,3-tetr	11.35	67.0	ppbv	25091200	ISTD02	11.86	4681100	12.5
Cyclopentane, 1,3-di	11.53	2.5	ppbv	928609	ISTD02	11.86	4681100	12.5
Hexane, 2,4-dimethyl	12.29	4.1	ppbv	1533680	ISTD02	11.86	4681100	12.5
Pentane, 2,3,4-trime	12.79	21.0	ppbv	7866550	ISTD02	11.86	4681100	12.5
Pentane, 2,3,3-trime	12.99	14.0	ppbv	5224290	ISTD02	11.86	4681100	12.5
Hexane, 2,2,5-trimet	13.34	5.5	ppbv	2060390	ISTD02	11.86	4681100	12.5
Cyclohexane, 1,1,3-t	14.89	2.4	ppbv	920001	ISTD03	15.72	4878160	12.5
Decane, 2,5,6-trimet	17.05	2.3	ppbv	895610	ISTD03	15.72	4878160	12.5
Dodecane, 2,2,11,11-	18.12	7.3	ppbv	2863580	ISTD03	15.72	4878160	12.5
Tetradecane, 2,2-dim	18.34	2.7	ppbv	1051340	ISTD03	15.72	4878160	12.5
Undecane, 3,4-dimeth	18.57	8.2	ppbv	3182490	ISTD03	15.72	4878160	12.5
Undecane, 2,9-dimeth	18.77	1.9	ppbv	751948	ISTD03	15.72	4878160	12.5
Hexane, 2,2,5-trimet	18.94	13.1	ppbv	5101240	ISTD03	15.72	4878160	12.5
Undecane, 2,8-dimeth	19.28	6.1	ppbv	2396650	ISTD03	15.72	4878160	12.5

04051112.D 031611V1.M Thu Apr 14 12:40:11 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:48 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

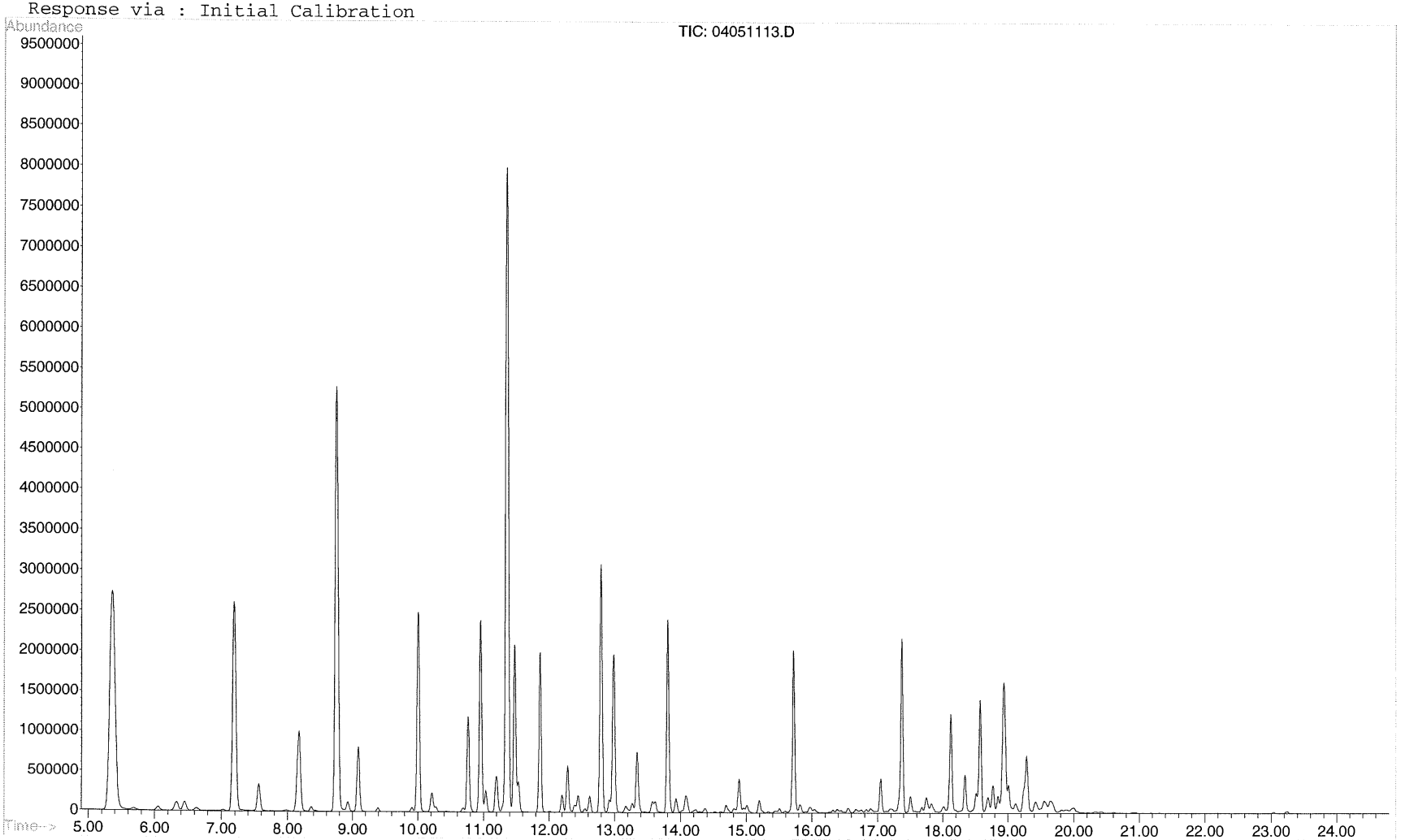
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.77	130	539937	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2035625	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1499648	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	973296	12.95	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 103.60%			
Target Compounds						Qvalue
12) Freon113	8.15	101	181010	1.77	ppbv	95
14) Acetone	8.37	43	112885	1.70	ppbv #	96
29) Cyclohexane	11.03	56	120324m	1.51	ppbv	
30) Carbon tetrachloride	11.19	117	273004	2.80	ppbv	98
31) Benzene	11.47	78	2234466	16.74	ppbv	99
41) Toluene	13.81	91	2187855	14.26	ppbv	100

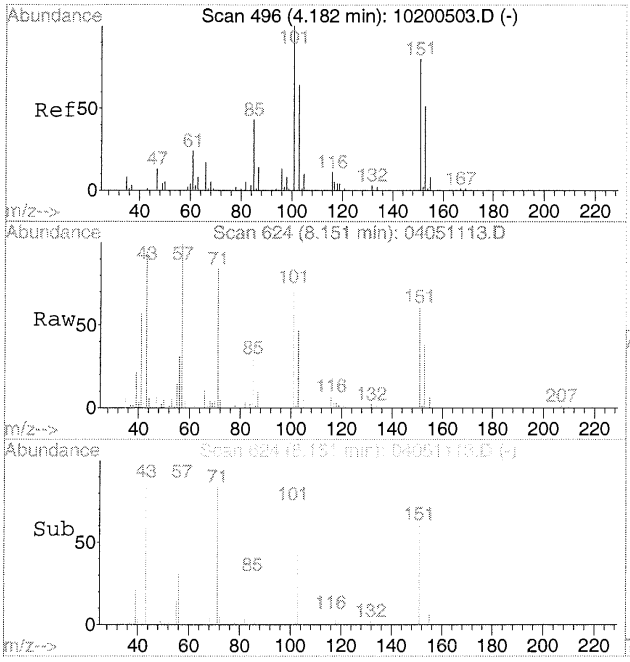
(#) = qualifier out of range (m) = manual integration
04051113.D 031611V1.M Thu Apr 14 12:40:17 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:48 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

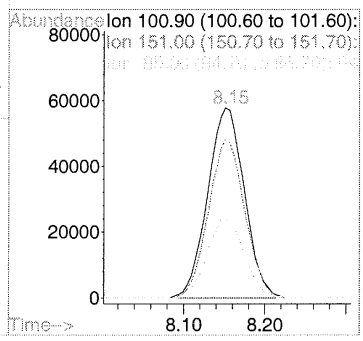


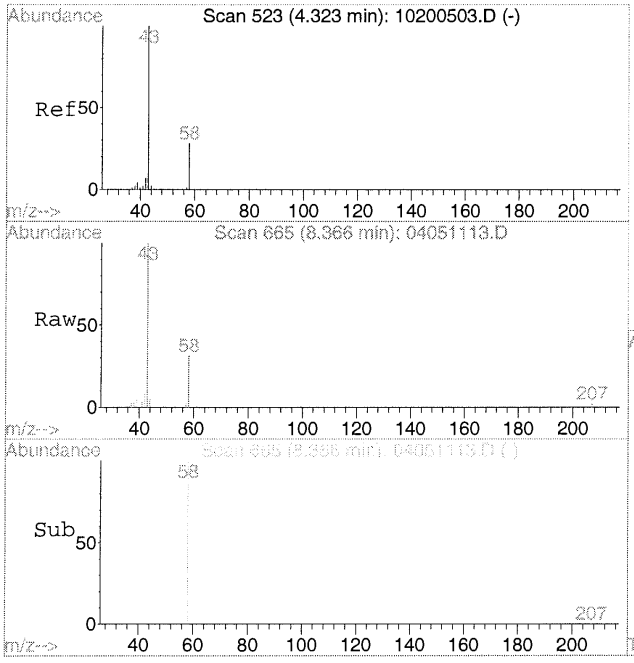


#12
Freon113
Concen: 1.77 ppbv
RT: 8.15 min Scan# 624
Delta R.T. -0.01 min
Lab File: 04051113.D
Acq: 5 Apr 2011 5:54 pm

Tgt Ion:101 Resp: 181010

Ion	Ratio	Lower	Upper
101	100		
151	82.5	70.5	105.7
85	42.0	32.0	48.0

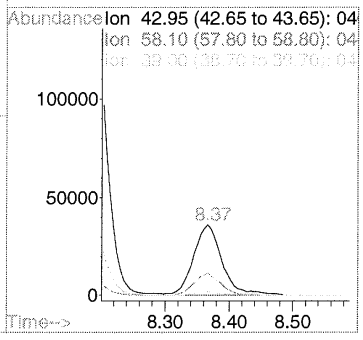


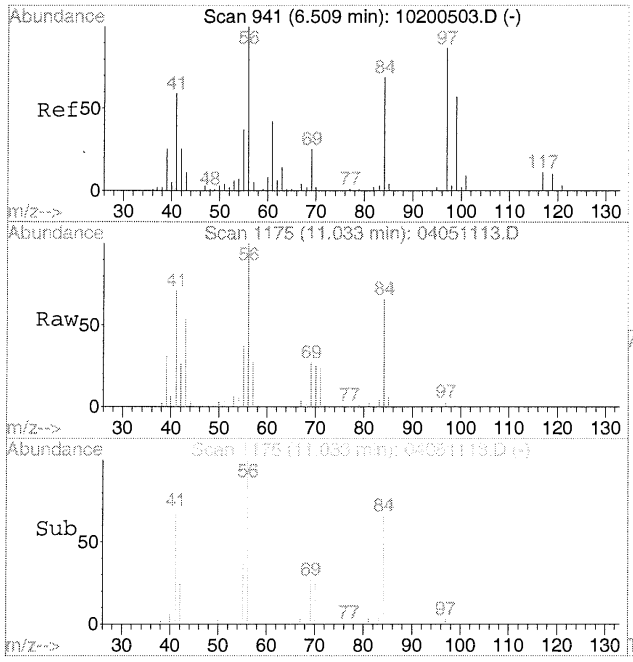


#14
Acetone
Concen: 1.70 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04051113.D
Acq: 5 Apr 2011 5:54 pm

Tgt Ion: 43 Resp: 112885

Ion	Ratio	Lower	Upper
43	100		
58	28.3	22.0	33.0
39	4.3	6.5	9.7#

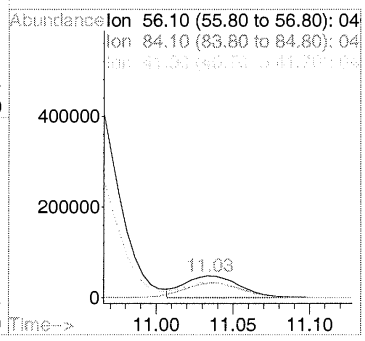


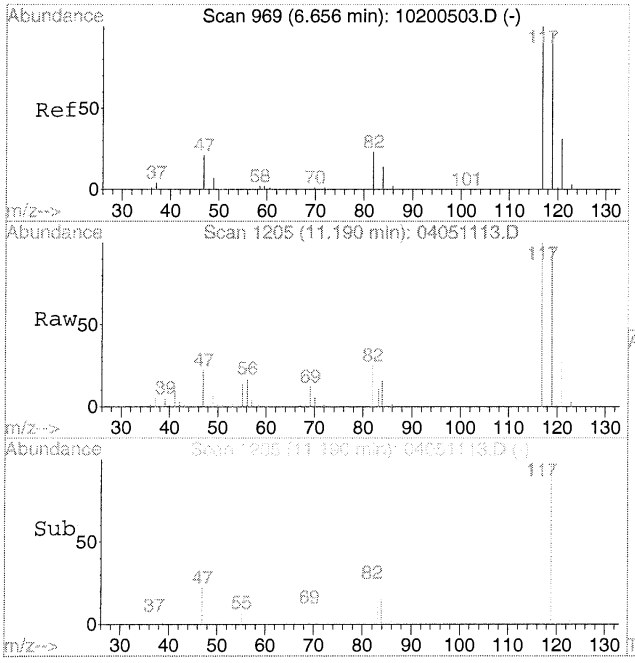


#29
Cyclohexane
Concen: 1.51 ppbv m
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051113.D
Acq: 5 Apr 2011 5:54 pm

Tgt Ion: 56 Resp: 120324

Ion	Ratio	Lower	Upper
56	100		
84	35.4	72.4	108.6#
41	29.3	43.8	65.8#

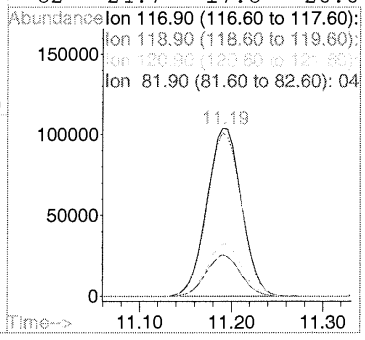


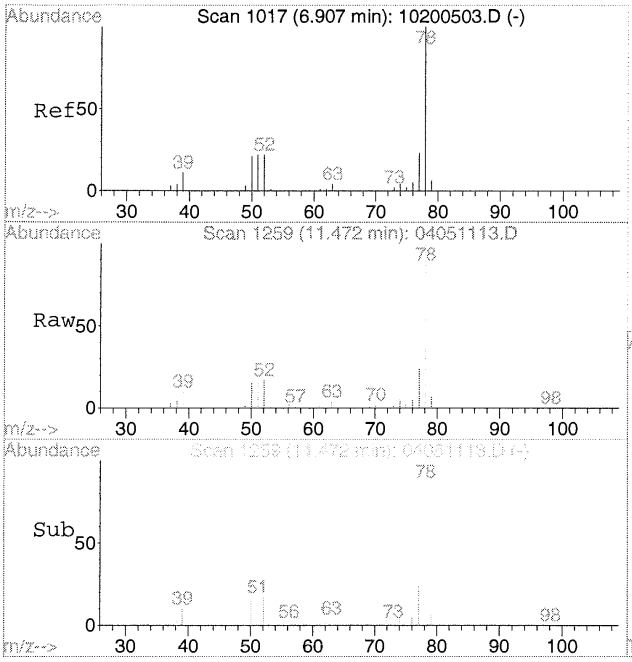


#30
Carbon tetrachloride
Concen: 2.80 ppbv
RT: 11.19 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 04051113.D
Acq: 5 Apr 2011 5:54 pm

Tgt Ion:117 Resp: 273004

Ion	Ratio	Lower	Upper
117	100		
119	96.5	78.2	117.2
121	31.1	25.6	38.4
82	24.7	17.8	26.6

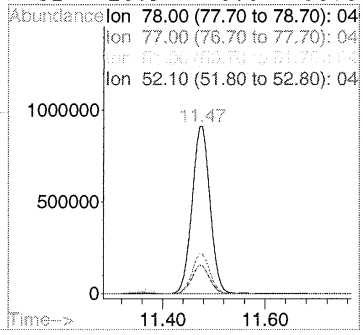


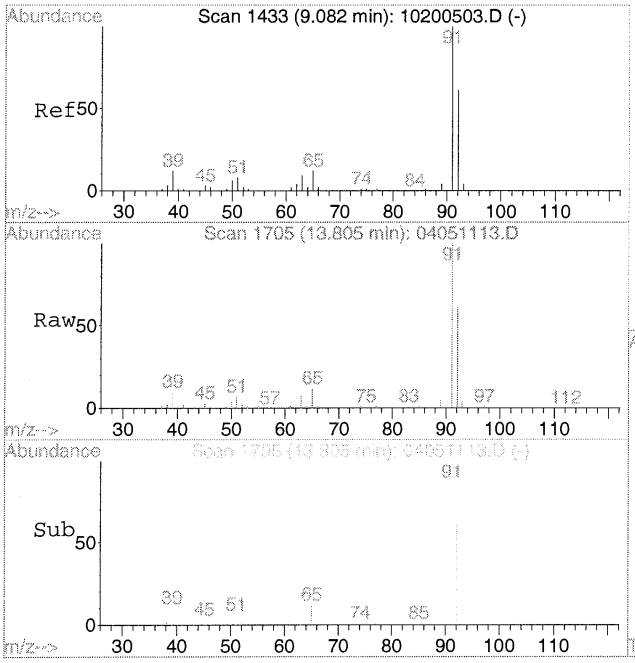


#31
Benzene
Concen: 16.74 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051113.D
Acq: 5 Apr 2011 5:54 pm

Tgt Ion: 78 Resp: 2234466

Ion	Ratio	Lower	Upper
78	100		
77	23.9	3.7	43.7
51	17.1	0.0	36.1
52	16.9	0.0	36.0

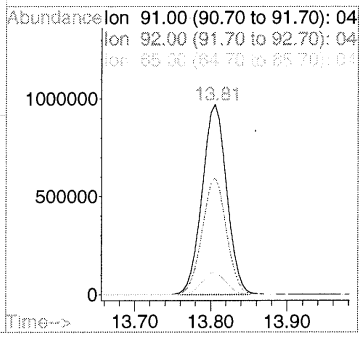




#41
Toluene
Concen: 14.26 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051113.D
Acq: 5 Apr 2011 5:54 pm

Tgt Ion: 91 Resp: 2187855

Ion	Ratio	Lower	Upper
91	100		
92	60.5	40.5	80.5
65	11.6	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.358	60	90	139	rBV	2735189	15963147	65.58%	9.792%
2	6.331	259	276	288	rBV5	104098	434355	1.78%	0.266%
3	6.446	289	298	315	rVB	109671	389704	1.60%	0.239%
4	7.189	423	440	473	rBV	2607009	9328446	38.32%	5.722%
5	7.560	498	511	533	rVB	332067	1031509	4.24%	0.633%
6	8.177	611	629	651	rBV2	1006180	3673491	15.09%	2.253%
7	8.753	722	739	763	rBV	5284032	17770121	73.00%	10.901%
8	8.925	763	772	786	rVV2	117113	358023	1.47%	0.220%
9	9.087	789	803	823	rVB	806603	2225741	9.14%	1.365%
10	10.003	967	978	997	rVB	2484485	6593729	27.09%	4.045%
11	10.212	1006	1018	1027	rBV2	230045	677614	2.78%	0.416%
12	10.761	1114	1123	1144	rVB	1186029	3029511	12.45%	1.858%
13	10.955	1146	1160	1169	rBV	2388242	6153705	25.28%	3.775%
14	11.033	1169	1175	1190	rVB2	262897	663665	2.73%	0.407%
15	11.195	1194	1206	1218	rBV2	444725	1300747	5.34%	0.798%
16	11.357	1218	1237	1250	rBV	7985436	24342994	100.00%	14.933%
17	11.472	1250	1259	1267	rBV	2022215	4902501	20.14%	3.007%
18	11.865	1320	1334	1353	rBV	1993176	4601172	18.90%	2.822%
19	12.199	1383	1398	1405	rBV2	215072	515961	2.12%	0.317%
20	12.283	1405	1414	1427	rVV2	577923	1472004	6.05%	0.903%
21	12.445	1439	1445	1457	rVV	210388	544765	2.24%	0.334%
22	12.623	1471	1479	1490	rVB	203057	500586	2.06%	0.307%
23	12.796	1498	1512	1527	rBV	3087308	7804345	32.06%	4.787%
24	12.921	1527	1536	1539	rVV	155195	339468	1.39%	0.208%
25	12.989	1539	1549	1565	rVB	1966728	5289560	21.73%	3.245%
26	13.167	1572	1583	1594	rBV4	74099	256788	1.05%	0.158%
27	13.266	1595	1602	1607	rVV	112175	280287	1.15%	0.172%
28	13.340	1607	1616	1632	rVB	749821	1970158	8.09%	1.209%
29	13.575	1645	1661	1665	rBV4	137278	369792	1.52%	0.227%
30	13.805	1694	1705	1720	rBV	2402511	5656817	23.24%	3.470%
31	13.931	1720	1729	1741	rVV	170207	427203	1.75%	0.262%
32	14.082	1749	1758	1771	rVB2	209877	697353	2.86%	0.428%
33	14.689	1865	1874	1888	rBV3	92580	279184	1.15%	0.171%
34	14.888	1903	1912	1921	rVV	381353	917420	3.77%	0.563%
35	15.003	1929	1934	1952	rVB3	94466	269980	1.11%	0.166%
36	15.196	1960	1971	1990	rBV3	155171	439618	1.81%	0.270%
37	15.719	2055	2071	2083	rBV	2015374	4799652	19.72%	2.944%
38	15.819	2083	2090	2100	rVB4	94116	248561	1.02%	0.152%
39	17.048	2314	2325	2335	rVB	410135	959438	3.94%	0.589%
40	17.372	2369	2387	2400	rVB2	2166109	5397545	22.17%	3.311%
41	17.503	2401	2412	2422	rBV3	196211	489034	2.01%	0.300%
42	17.743	2450	2458	2467	rVV3	174996	527886	2.17%	0.324%
43	17.822	2468	2473	2486	rVB5	101170	299920	1.23%	0.184%

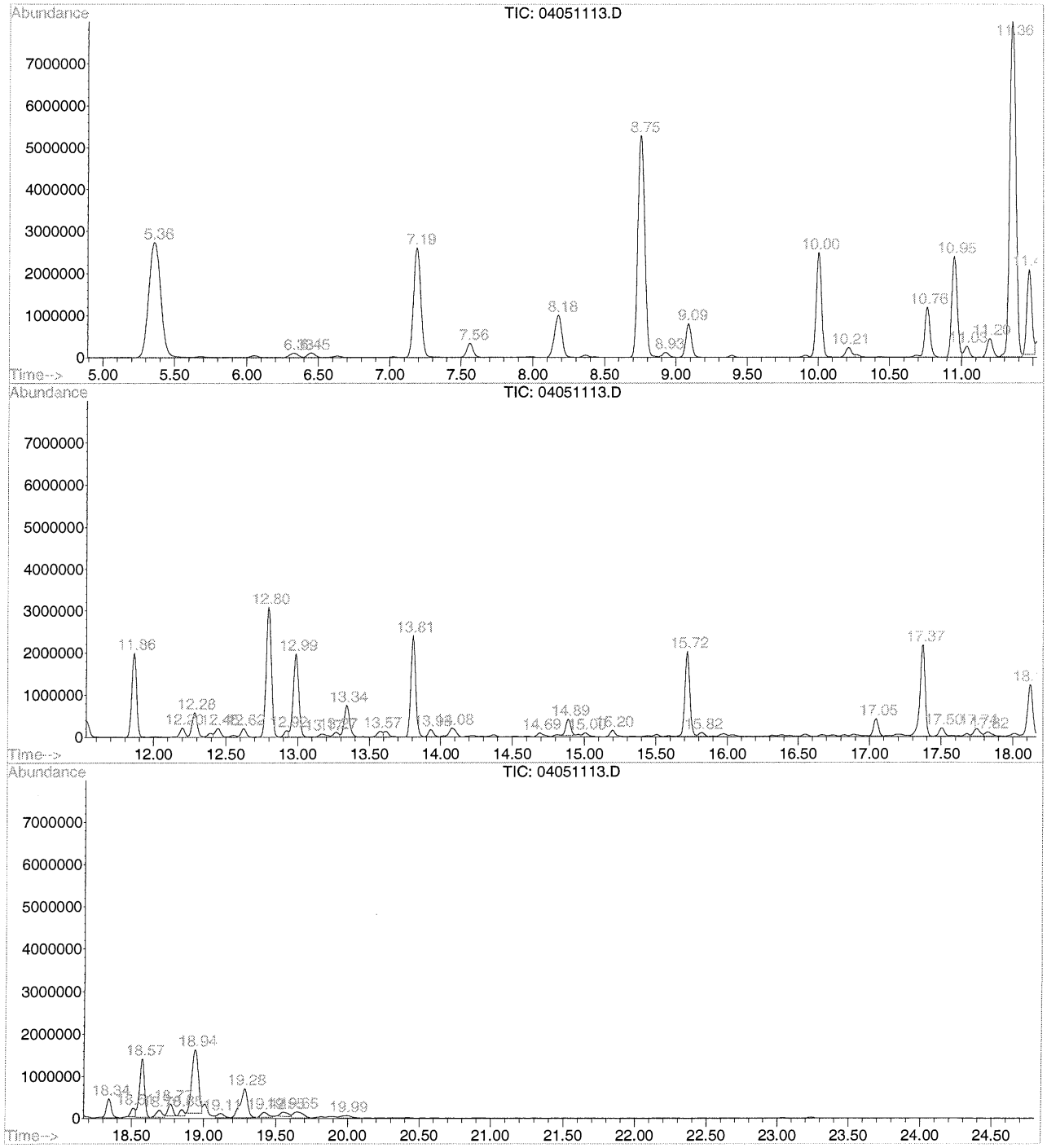
44	18.120	2519	2530	2543	rVB	1200567	2954333	12.14%	1.812%
45	18.340	2563	2572	2588	rVB	452860	1091986	4.49%	0.670%
46	18.512	2596	2605	2608	rBV	209979	471377	1.94%	0.289%
47	18.575	2608	2617	2627	rVB	1388437	3473899	14.27%	2.131%
48	18.695	2627	2640	2647	rBV4	171622	513141	2.11%	0.315%
49	18.774	2647	2655	2662	rVB3	286670	676367	2.78%	0.415%
50	18.847	2662	2669	2674	rBV	154402	336348	1.38%	0.206%
51	18.941	2674	2687	2696	rBV2	1503599	4815318	19.78%	2.954%
52	19.114	2714	2720	2733	rVB4	98766	300691	1.24%	0.184%
53	19.281	2734	2752	2767	rBV3	689643	2463015	10.12%	1.511%
54	19.417	2768	2778	2789	rBV2	118798	401254	1.65%	0.246%
55	19.553	2795	2804	2814	rBV4	95359	385595	1.58%	0.237%
56	19.647	2815	2822	2841	rVB6	139596	647164	2.66%	0.397%
57	19.992	2877	2888	2910	rVB4	60467	296169	1.22%	0.182%

Sum of corrected areas: 163020157

04051113.D 031611V1.M Thu Apr 14 12:40:22 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051113.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 5:54 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-035B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 6
Quant File :031611V1.RES (RTE Integrator)



04051113.D 031611V1.M Thu Apr 14 12:40:23 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	65.87 ppbv	15963100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	38.49 ppbv	9328450	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

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Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	4.26 ppbv	1031510	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Butane, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	73.32 ppbv	17770100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	56
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	9.18 ppbv	2225740	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 6 Pentane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	27.21 ppbv	6593730	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	2.80 ppbv	677614	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	87

****

Peak Number 8 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	25.39 ppbv	6153710	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 9 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	66.13 ppbv	24343000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	64

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	4.00 ppbv	1472000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46

****

Peak Number 11 Pentane, 2,3,4-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	21.20 ppbv	7804350	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
5	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	64

****

Peak Number 12 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	14.37 ppbv	5289560	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	90
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
3	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
5	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	5.35 ppbv	1970160	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	74

****

Peak Number 14 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	2.39 ppbv	917420	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	95
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	76
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	70
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
5	4-Amino-6-hydroxypyrimidine $$ 4(1H	111	C4H5N3O	001193-22-2	59

****

Peak Number 15 Octane, 2,2,6-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	2.50 ppbv	959438	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	59
5	Heptane, 2,2,4-trimethyl- $$ 2,2,4-	142	C10H22	014720-74-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Dodecane, 2,2,11,11-tetramethy Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	7.69 ppbv	2954330	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
2	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	72
3	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	72
4	Decane, 2,2,9-trimethyl-	184	C13H28	062238-00-0	72
5	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	72

****

Peak Number 17 Tetradecane, 2,2-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	2.84 ppbv	1091990	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
2	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
4	Decane, 2,2,8-trimethyl-	184	C13H28	062238-01-1	72
5	Undecane, 2,2-dimethyl-	184	C13H28	017312-64-0	72

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Peak Number 18 Hexane, 3,3-dimethyl- $$ 3,3-D Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	9.05 ppbv	3473900	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59
2	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	59
3	Decane, 3-methyl-	156	C11H24	013151-34-3	56
4	Heptadecane $$ n-Heptadecane $$ Nor	240	C17H36	000629-78-7	56
5	Undecane, 3,4-dimethyl-	184	C13H28	017312-78-6	56

Data File : C:\HPCHEM\1\DATA\040511\04051113.D Vial: 6
Acq On : 5 Apr 2011 5:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Hexane, 2,2,5-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	12.54 ppbv	4815320	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
2	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	59
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	53
4	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	53
5	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	50

****

Peak Number 20 Undecane, 2,8-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.28	6.41 ppbv	2463020	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	56
2	Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	56
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	53
4	Undecane, 4,8-dimethyl-	184	C13H28	017301-33-6	50
5	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	47

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 5:54 pm
Data File: C:\HPCHEM\1\DATA\040511\04051113.D
Name: 1103389-035B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	65.9	ppbv	15963100	ISTD01	10.77	3029510	12.5
Butane, 2-methyl-	7.19	38.5	ppbv	9328450	ISTD01	10.77	3029510	12.5
Pentane $$ n-Pentane	7.56	4.3	ppbv	1031510	ISTD01	10.77	3029510	12.5
Butane, 2,3-dimethyl	8.75	73.3	ppbv	17770100	ISTD01	10.77	3029510	12.5
Pentane, 3-methyl-	9.09	9.2	ppbv	2225740	ISTD01	10.77	3029510	12.5
Pentane, 2,4-dimethy	10.00	27.2	ppbv	6593730	ISTD01	10.77	3029510	12.5
Cyclopentane, methyl	10.21	2.8	ppbv	677614	ISTD01	10.77	3029510	12.5
Pentane, 2,3-dimethy	10.95	25.4	ppbv	6153710	ISTD01	10.77	3029510	12.5
Butane, 2,2,3,3-tetr	11.36	66.1	ppbv	24343000	ISTD02	11.86	4601170	12.5
Hexane, 1-(hexyloxy)	12.28	4.0	ppbv	1472000	ISTD02	11.86	4601170	12.5
Pentane, 2,3,4-trime	12.80	21.2	ppbv	7804350	ISTD02	11.86	4601170	12.5
Pentane, 2,3,3-trime	12.99	14.4	ppbv	5289560	ISTD02	11.86	4601170	12.5
Hexane, 2,2,5-trimet	13.34	5.4	ppbv	1970160	ISTD02	11.86	4601170	12.5
Cyclohexane, 1,1,3-t	14.89	2.4	ppbv	917420	ISTD03	15.72	4799650	12.5
Octane, 2,2,6-trimet	17.05	2.5	ppbv	959438	ISTD03	15.72	4799650	12.5
Dodecane, 2,2,11,11-	18.12	7.7	ppbv	2954330	ISTD03	15.72	4799650	12.5
Tetradecane, 2,2-dim	18.34	2.8	ppbv	1091990	ISTD03	15.72	4799650	12.5
Hexane, 3,3-dimethyl	18.57	9.0	ppbv	3473900	ISTD03	15.72	4799650	12.5
Hexane, 2,2,5-trimet	18.94	12.5	ppbv	4815320	ISTD03	15.72	4799650	12.5
Undecane, 2,8-dimeth	19.28	6.4	ppbv	2463020	ISTD03	15.72	4799650	12.5

04051113.D 031611V1.M Thu Apr 14 12:40:24 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:49 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

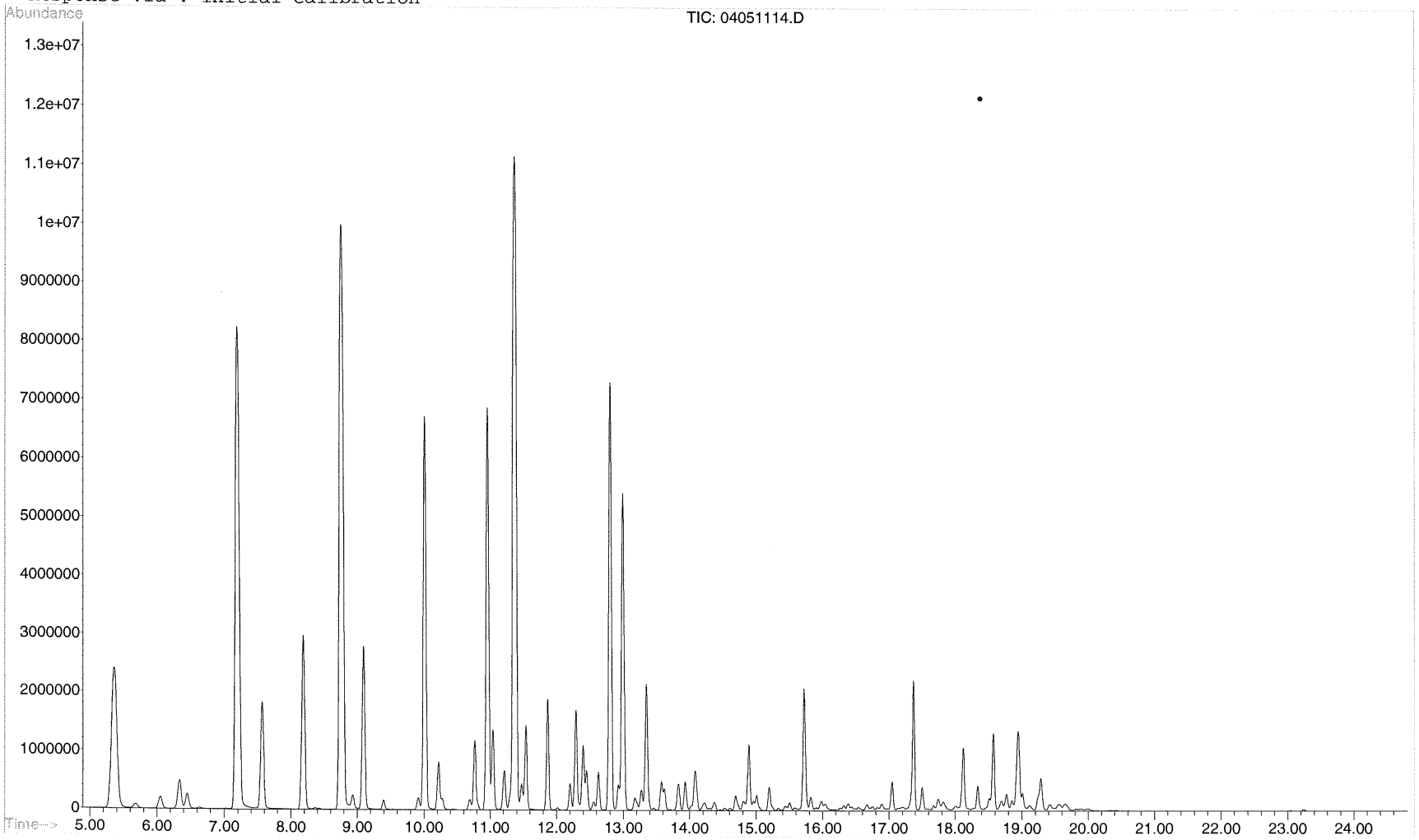
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	538378	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1926083	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1517427	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	994547	13.08	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 104.64%				
Target Compounds							Qvalue
2) Propylene	5.68	41	69442	1.72	ppbv	#	77
14) Acetone	8.37	43	58091	0.88	ppbv	#	92
20) n-Hexane	9.39	57	106877	1.36	ppbv		97
29) Cyclohexane	11.04	56	705580	8.86	ppbv		87
30) Carbon tetrachloride	11.19	117	48860	0.50	ppbv	#	96
31) Benzene	11.48	78	150393	1.13	ppbv		94
34) Heptane	11.54	43	74577	0.80	ppbv	#	55

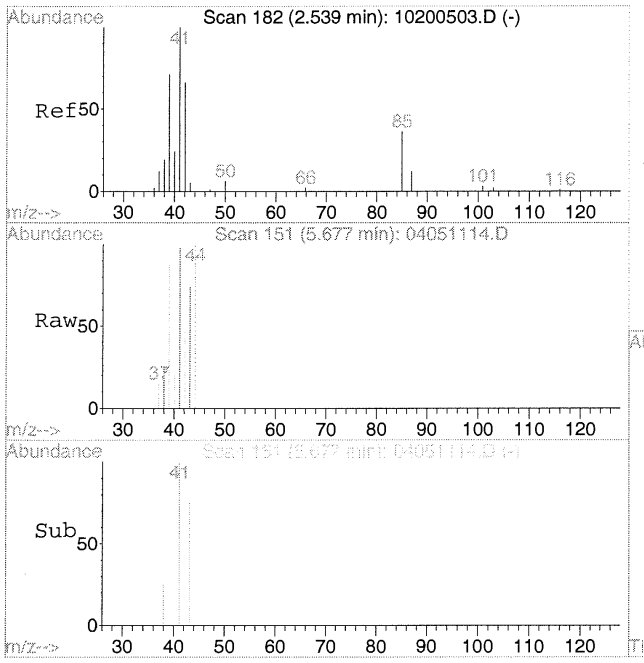
(#) = qualifier out of range (m) = manual integration
04051114.D 031611V1.M Thu Apr 14 12:40:29 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:49 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

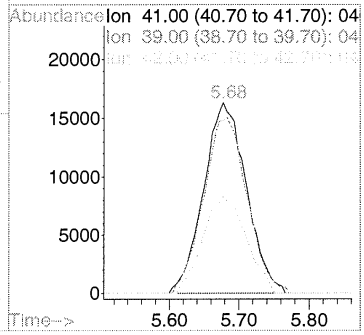


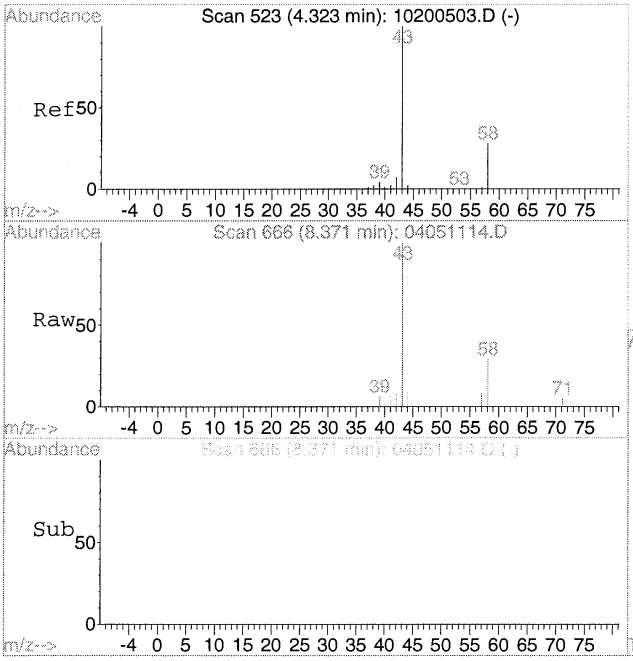


#2
Propylene
Concen: 1.72 ppbv
RT: 5.68 min Scan# 151
Delta R.T. -0.00 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion: 41 Resp: 69442

Ion	Ratio	Lower	Upper
41	100		
39	94.2	57.6	86.4#
42	51.7	54.0	81.0#

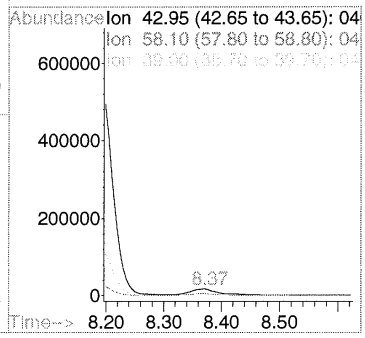


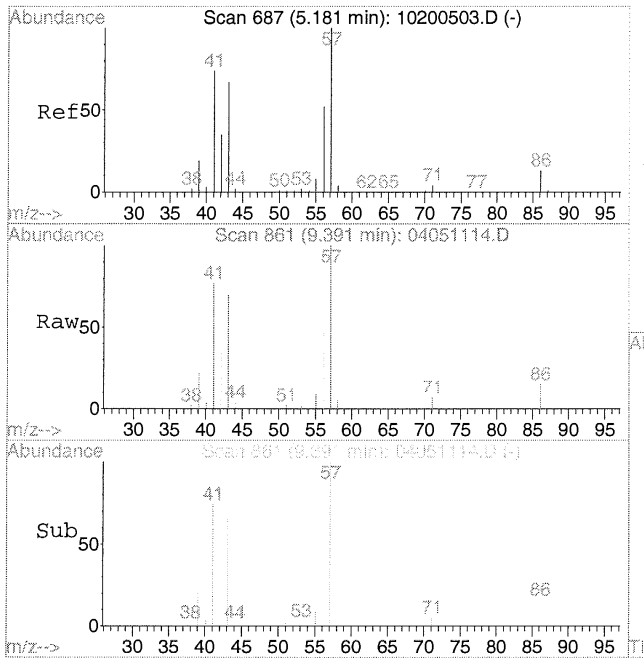


#14
Acetone
Concen: 0.88 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.01 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion: 43 Resp: 58091

Ion	Ratio	Lower	Upper
43	100		
58	25.3	22.0	33.0
39	0.0	6.5	9.7#

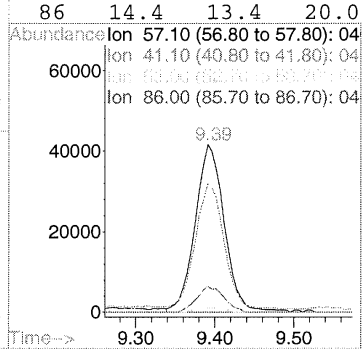


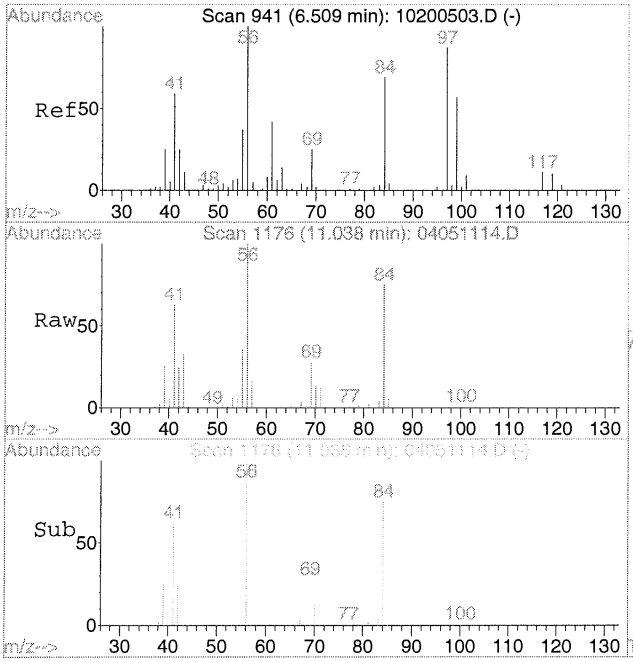


#20
n-Hexane
Concen: 1.36 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion: 57 Resp: 106877

Ion	Ratio	Lower	Upper
57	100		
41	74.1	57.2	85.8
53	2.4	1.8	2.8
86	14.4	13.4	20.0

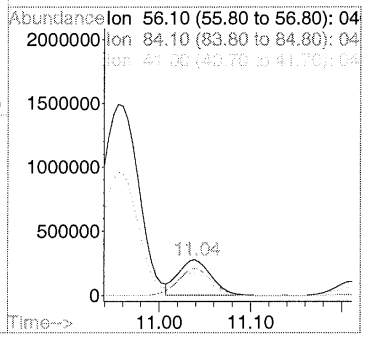


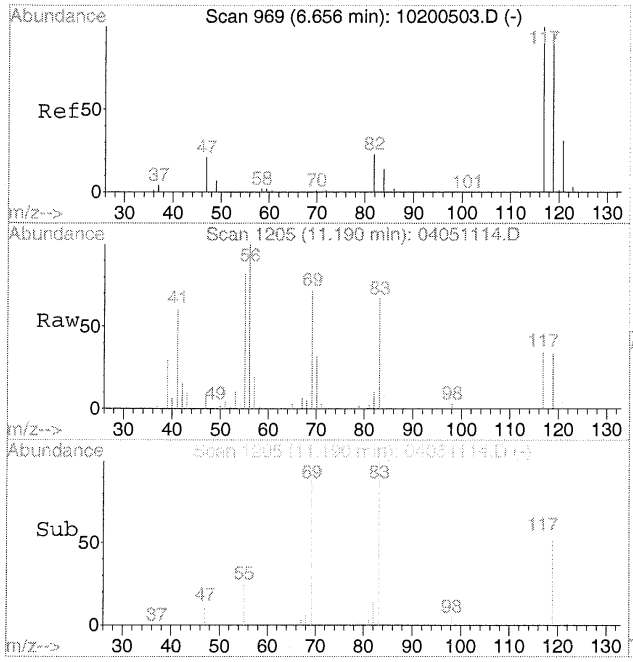


#29
Cyclohexane
Concen: 8.86 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion: 56 Resp: 705580

Ion	Ratio	Lower	Upper
56	100		
84	78.6	72.4	108.6
41	63.9	43.8	65.8

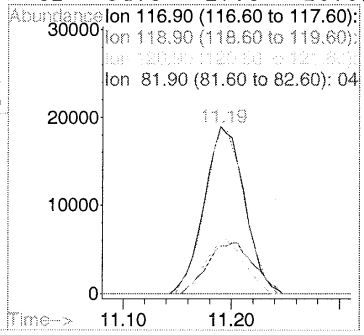


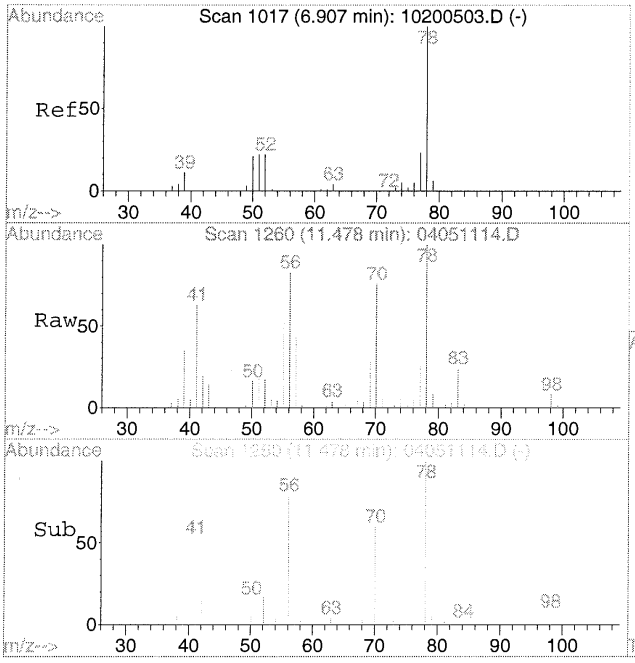


#30
Carbon tetrachloride
Concen: 0.50 ppbv
RT: 11.19 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion:117 Resp: 48860

Ion	Ratio	Lower	Upper
117	100		
119	97.4	78.2	117.2
121	30.9	25.6	38.4
82	34.8	17.8	26.6#

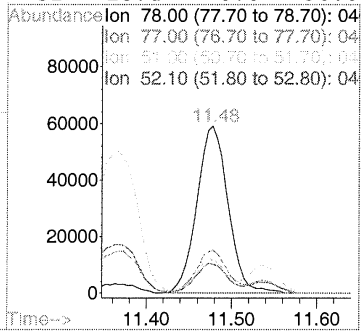


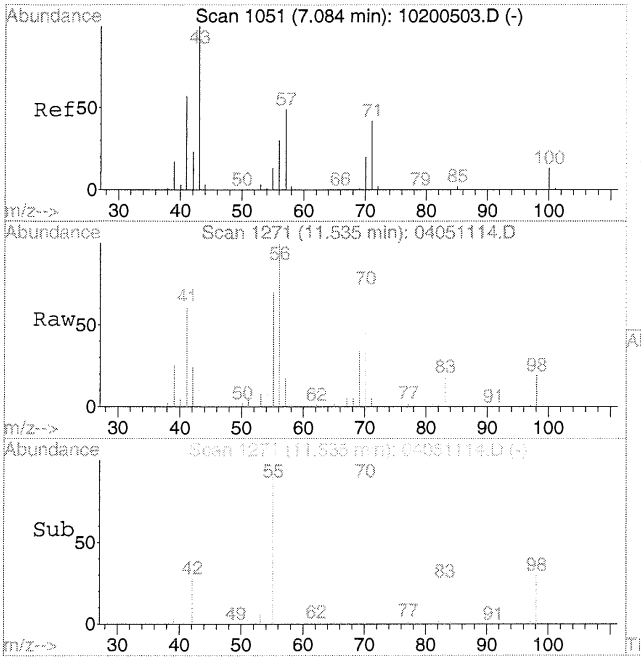


#31
Benzene
Concen: 1.13 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion: 78 Resp: 150393

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.7	43.7
51	19.2	0.0	36.1
52	18.4	0.0	36.0

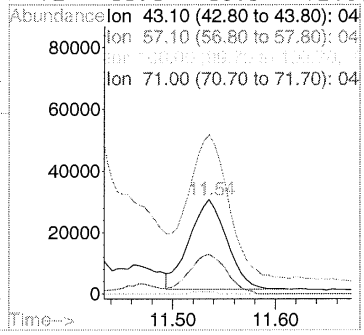




#34
Heptane
Concen: 0.80 ppbv
RT: 11.54 min Scan# 1271
Delta R.T. 0.01 min
Lab File: 04051114.D
Acq: 5 Apr 2011 6:36 pm

Tgt Ion: 43 Resp: 74577

Ion	Ratio	Lower	Upper
43	100		
57	0.0	42.2	63.4#
100	1.4	17.3	25.9#
71	44.4	48.3	72.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.358	60	90	135	rBV	2407109	13799587	31.76%	4.406%
2	6.049	206	222	243	rBV	204964	789427	1.82%	0.252%
3	6.336	257	277	289	rBV2	492113	1829925	4.21%	0.584%
4	6.452	289	299	318	rVB	250268	895272	2.06%	0.286%
5	7.189	422	440	478	rBV	8237777	33704950	77.57%	10.762%
6	7.566	497	512	533	rVB	1817807	5860486	13.49%	1.871%
7	8.183	612	630	655	rBV	2975941	9656606	22.22%	3.083%
8	8.753	723	739	764	rBV2	9987467	41992878	96.64%	13.408%
9	8.931	765	773	788	rVV	241857	775202	1.78%	0.248%
10	9.093	790	804	834	rVB	2777316	7880779	18.14%	2.516%
11	9.914	949	961	967	rBV2	207661	557211	1.28%	0.178%
12	10.008	967	979	1007	rVB	6714792	19139856	44.05%	6.111%
13	10.217	1007	1019	1027	rBV	803374	2219138	5.11%	0.709%
14	10.688	1095	1109	1115	rBV2	179142	496307	1.14%	0.158%
15	10.766	1115	1124	1143	rVB	1173406	3142005	7.23%	1.003%
16	10.955	1145	1160	1170	rBV	6874769	19447868	44.76%	6.210%
17	11.038	1170	1176	1195	rVV	1350695	3418341	7.87%	1.091%
18	11.211	1197	1209	1218	rVV2	652976	1808969	4.16%	0.578%
19	11.368	1218	1239	1252	rVV	11144894	43452216	100.00%	13.874%
20	11.472	1252	1259	1264	rVV2	431069	1124943	2.59%	0.359%
21	11.535	1264	1271	1287	rVB	1426440	3545684	8.16%	1.132%
22	11.865	1322	1334	1351	rVB	1872528	4328644	9.96%	1.382%
23	12.199	1381	1398	1406	rBV	451357	1085256	2.50%	0.347%
24	12.288	1406	1415	1426	rVV	1693071	4340328	9.99%	1.386%
25	12.393	1427	1435	1441	rVV	1096737	2814092	6.48%	0.899%
26	12.451	1442	1446	1456	rVV	658133	1435208	3.30%	0.458%
27	12.623	1471	1479	1494	rVB	639660	1595690	3.67%	0.510%
28	12.801	1494	1513	1527	rBV2	7300529	20179196	46.44%	6.443%
29	12.926	1527	1537	1540	rVV	427494	968465	2.23%	0.309%
30	12.989	1540	1549	1569	rVB	5406181	14955289	34.42%	4.775%
31	13.172	1571	1584	1595	rBV3	205430	718436	1.65%	0.229%
32	13.272	1595	1603	1608	rVV	335253	853528	1.96%	0.273%
33	13.345	1608	1617	1632	rVB	2130313	5586038	12.86%	1.784%
34	13.575	1649	1661	1666	rBV2	486289	1311921	3.02%	0.419%
35	13.831	1696	1710	1720	rBV4	444824	1278791	2.94%	0.408%
36	13.931	1720	1729	1740	rVV	476238	1181353	2.72%	0.377%
37	14.082	1749	1758	1772	rVB2	650494	2059322	4.74%	0.658%
38	14.689	1865	1874	1888	rBV3	239303	739882	1.70%	0.236%
39	14.888	1903	1912	1921	rVB	1012873	2397683	5.52%	0.766%
40	15.008	1929	1935	1956	rVB3	257117	739045	1.70%	0.236%
41	15.196	1960	1971	1989	rBV	393541	1091748	2.51%	0.349%
42	15.719	2057	2071	2084	rBV	2045270	5195749	11.96%	1.659%
43	15.824	2084	2091	2100	rVB3	202408	491967	1.13%	0.157%

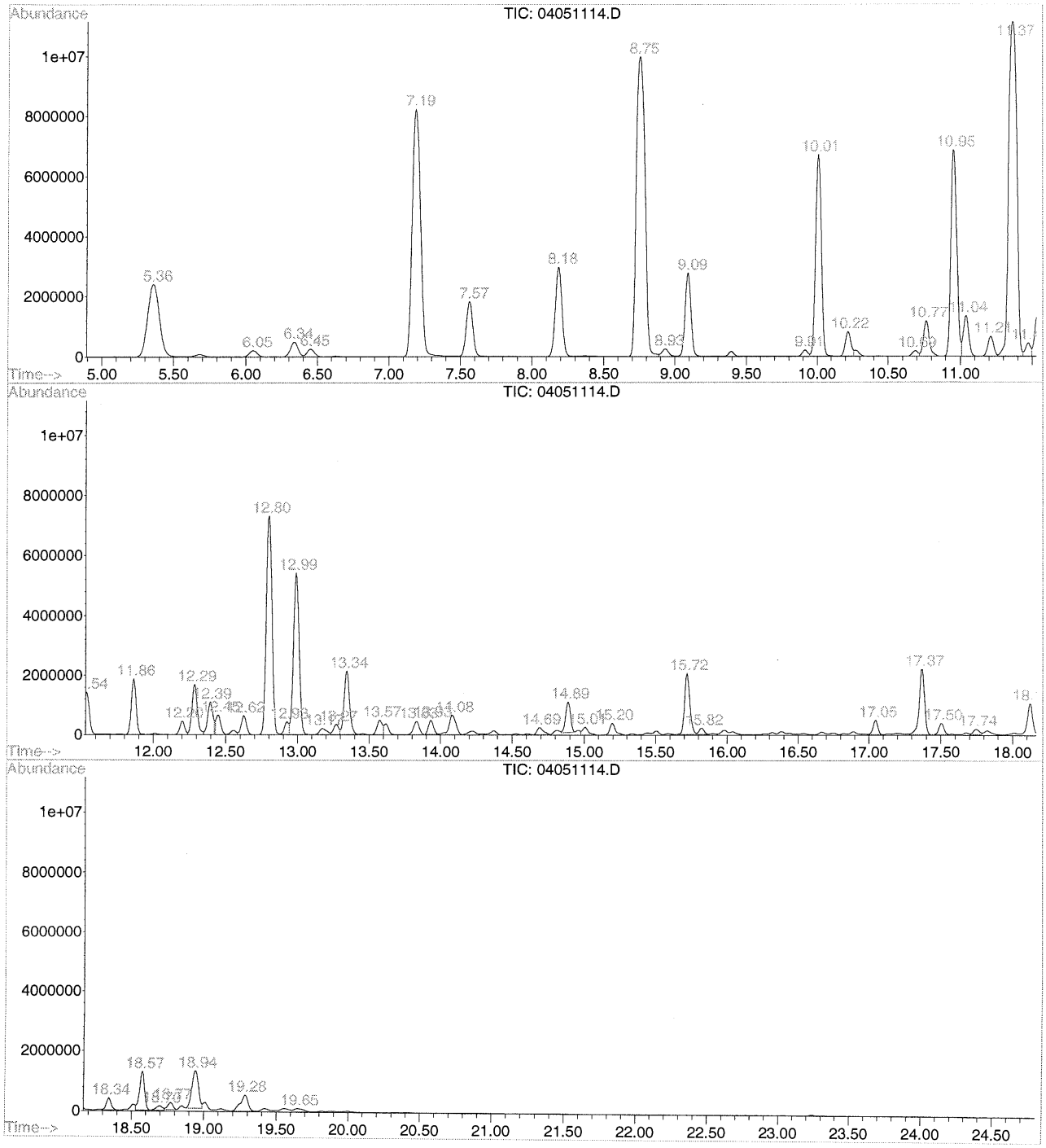
44	17.048	2315	2325	2334	rVB	480831	1131158	2.60%	0.361%
45	17.372	2370	2387	2399	rVB2	2190955	5543675	12.76%	1.770%
46	17.503	2401	2412	2422	rBV	383291	946191	2.18%	0.302%
47	17.743	2450	2458	2466	rVV3	175216	535162	1.23%	0.171%
48	18.120	2520	2530	2543	rVB	1020482	2598986	5.98%	0.830%
49	18.340	2563	2572	2588	rVB	399509	954889	2.20%	0.305%
50	18.575	2608	2617	2628	rVB	1280004	3204902	7.38%	1.023%
51	18.695	2628	2640	2646	rBV3	144631	445711	1.03%	0.142%
52	18.769	2647	2654	2662	rVB3	232200	572000	1.32%	0.183%
53	18.941	2675	2687	2696	rBV2	1243191	3945983	9.08%	1.260%
54	19.281	2734	2752	2768	rBV3	538313	1946824	4.48%	0.622%
55	19.647	2815	2822	2840	rVB4	103194	472757	1.09%	0.151%

Sum of corrected areas: 313183519

04051114.D 031611V1.M Thu Apr 14 12:40:35 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051114.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 6:36 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-036B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 7
Quant File :031611V1.RES (RTE Integrator)



04051114.D 031611V1.M Thu Apr 14 12:40:35 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	54.90 ppbv	13799600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3

****

Peak Number 2 Butane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	7.28 ppbv	1829930	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	80
2	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
3	Isobutane	58	C4H10	000075-28-5	9
4	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9
5	Diazene, dimethyl-	58	C2H6N2	000503-28-6	5

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	134.09 ppbv	33705000	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25
5	3-Buten-1-ol	72	C4H8O	000627-27-0	25

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	23.32 ppbv	5860490	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	42
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

****

Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	38.42 ppbv	9656610	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 6 Butane, 2,3-dimethyl- $$ Biiso Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	167.06 ppbv	41992900	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	78
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	50
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	31.35 ppbv	7880780	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 8 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	76.15 ppbv	19139900	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 9 Cyclopentane, methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	8.83 ppbv	2219140	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	56

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	77.37 ppbv	19447900	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 11 Pentane, 2,2,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	125.48 ppbv	43452200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	78
4	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	78
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	12.53 ppbv	4340330	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	46
2	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
3	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	42
4	1-Pentanol, 2,2-dimethyl-	116	C7H16O	002370-12-9	42
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclohexane, methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	8.13 ppbv	2814090	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	87
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	64
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	64
5	Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	59

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	58.27 ppbv	20179200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
4	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	64
5	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64

****

Peak Number 15 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	43.19 ppbv	14955300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	72
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
3	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	16.13 ppbv	5586040	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	72

****

Peak Number 17 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	5.77 ppbv	2397680	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	78
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	70
3	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	70
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
5	4-Amino-6-hydroxypyrimidine $$ 4(1H	111	C4H5N3O	001193-22-2	59

****

Peak Number 18 Decane, 2,2,8-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	6.25 ppbv	2598990	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,2,8-trimethyl-	184	C13H28	062238-01-1	78
2	Tetradecane, 2,2-dimethyl-	226	C16H34	000000-00-0	78
3	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	72
4	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
5	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051114.D Vial: 7
Acq On : 5 Apr 2011 6:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Nonane, 3-methyl-5-propyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	7.71 ppbv	3204900	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	59
2	Heneicosane $$ n-Heneicosane	296	C21H44	000629-94-7	56
3	Heptadecane, 8-methyl- $$ 8-Methylh	254	C18H38	013287-23-5	50
4	Undecane, 3,4-dimethyl-	184	C13H28	017312-78-6	50
5	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	50

****

Peak Number 20 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	9.49 ppbv	3945980	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
2	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	53
3	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	50
4	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	47
5	Hexane, 2,2,5,5-tetramethyl- $$ Bin	142	C10H22	001071-81-4	47

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 6:36 pm
Data File: C:\HPCHEM\1\DATA\040511\04051114.D
Name: 1103389-036B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	54.9	ppbv	13799600	ISTD01	10.77	3142010	12.5
Butane	6.34	7.3	ppbv	1829930	ISTD01	10.77	3142010	12.5
Butane, 2-methyl-	7.19	134.1	ppbv	33705000	ISTD01	10.77	3142010	12.5
Pentane	7.57	23.3	ppbv	5860490	ISTD01	10.77	3142010	12.5
Butane, 2,2-dimethyl	8.18	38.4	ppbv	9656610	ISTD01	10.77	3142010	12.5
Butane, 2,3-dimethyl	8.75	167.1	ppbv	41992900	ISTD01	10.77	3142010	12.5
Pentane, 3-methyl-	9.09	31.4	ppbv	7880780	ISTD01	10.77	3142010	12.5
Pentane, 2,4-dimethy	10.01	76.1	ppbv	19139900	ISTD01	10.77	3142010	12.5
Cyclopentane, methyl	10.22	8.8	ppbv	2219140	ISTD01	10.77	3142010	12.5
Pentane, 2,3-dimethy	10.95	77.4	ppbv	19447900	ISTD01	10.77	3142010	12.5
Pentane, 2,2,4-trime	11.37	125.5	ppbv	43452200	ISTD02	11.86	4328640	12.5
Hexane, 2,4-dimethyl	12.29	12.5	ppbv	4340330	ISTD02	11.86	4328640	12.5
Cyclohexane, methyl-	12.39	8.1	ppbv	2814090	ISTD02	11.86	4328640	12.5
Pentane, 2,3,4-trime	12.80	58.3	ppbv	20179200	ISTD02	11.86	4328640	12.5
Pentane, 2,3,3-trime	12.99	43.2	ppbv	14955300	ISTD02	11.86	4328640	12.5
Hexane, 2,2,5-trimet	13.34	16.1	ppbv	5586040	ISTD02	11.86	4328640	12.5
Cyclohexane, 1,1,3-t	14.89	5.8	ppbv	2397680	ISTD03	15.72	5195750	12.5
Decane, 2,2,8-trimet	18.12	6.3	ppbv	2598990	ISTD03	15.72	5195750	12.5
Nonane, 3-methyl-5-p	18.57	7.7	ppbv	3204900	ISTD03	15.72	5195750	12.5
Hexane, 2,2,5-trimet	18.94	9.5	ppbv	3945980	ISTD03	15.72	5195750	12.5

04051114.D 031611V1.M Thu Apr 14 12:40:36 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:50 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

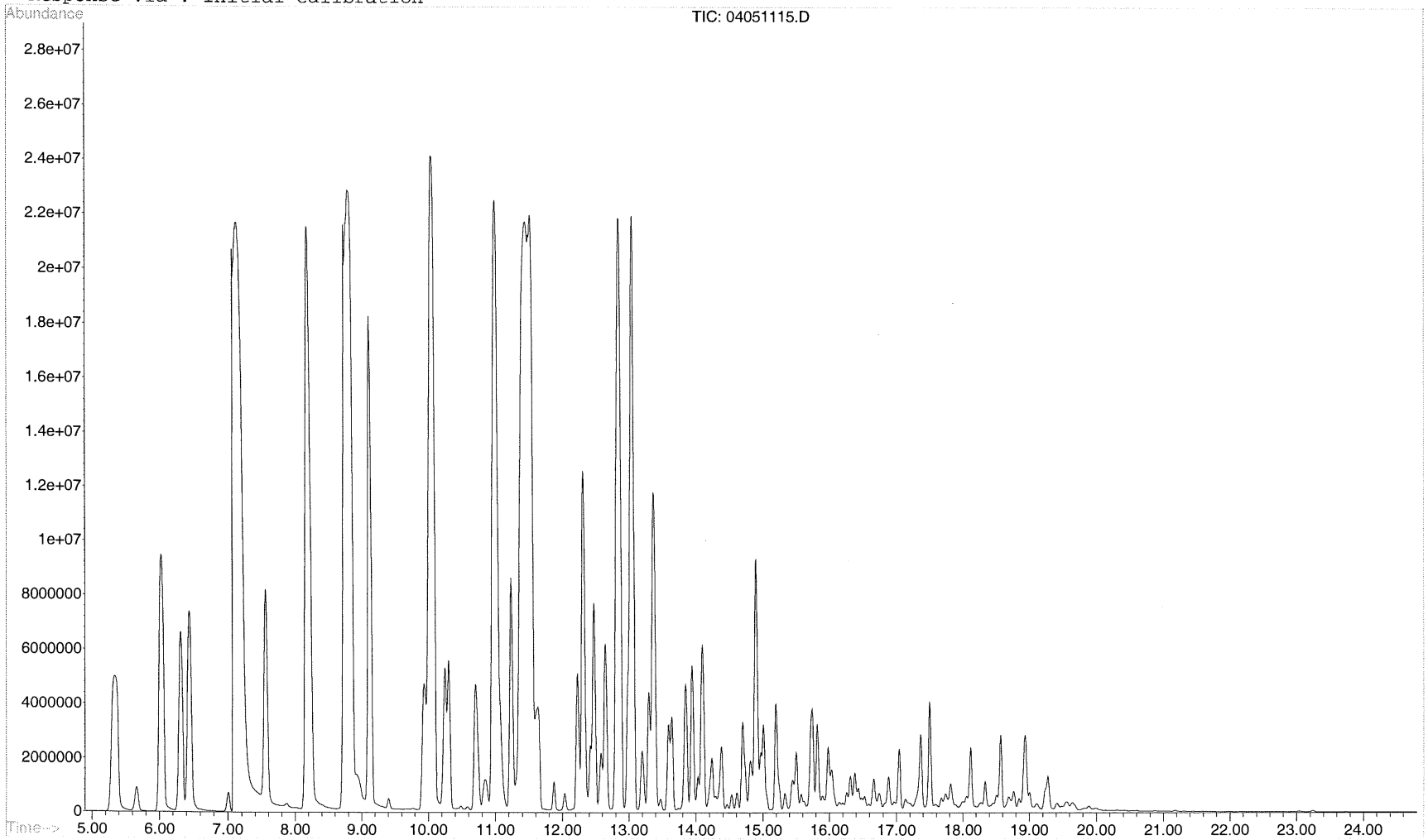
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.75	130	351461	12.50	ppbv	-0.01
33) 1,4-Difluorobenzene	11.87	114	1098553	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.71	117	1570000	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1232120	15.66	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 125.28%#			
Target Compounds						Qvalue
2) Propylene	5.66	41	485115	18.41	ppbv #	56
20) n-Hexane	9.41	57	258360	5.03	ppbv #	97
41) Toluene	13.81	91	156430	1.89	ppbv #	75
51) m,p-Xylene	15.96	91	71226	0.50	ppbv #	70

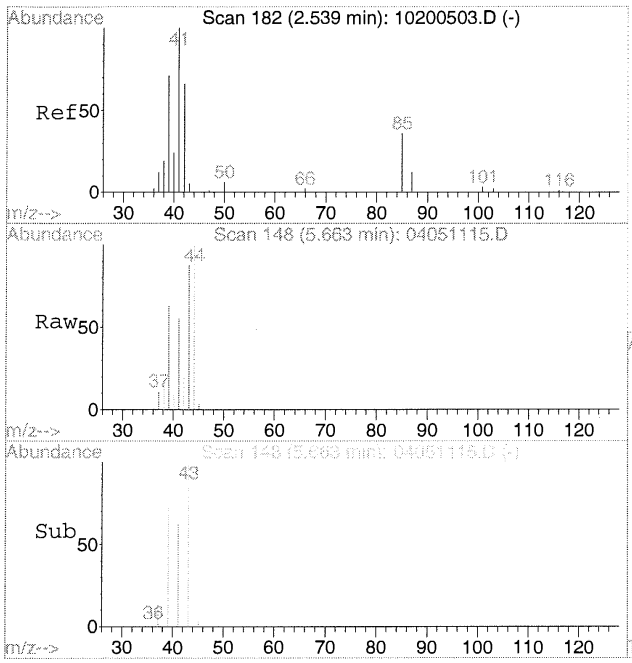
(#) = qualifier out of range (m) = manual integration
04051115.D 031611V1.M Thu Apr 14 12:40:41 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:50 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

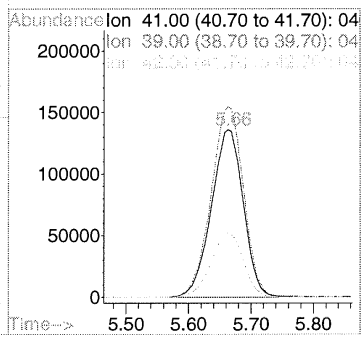


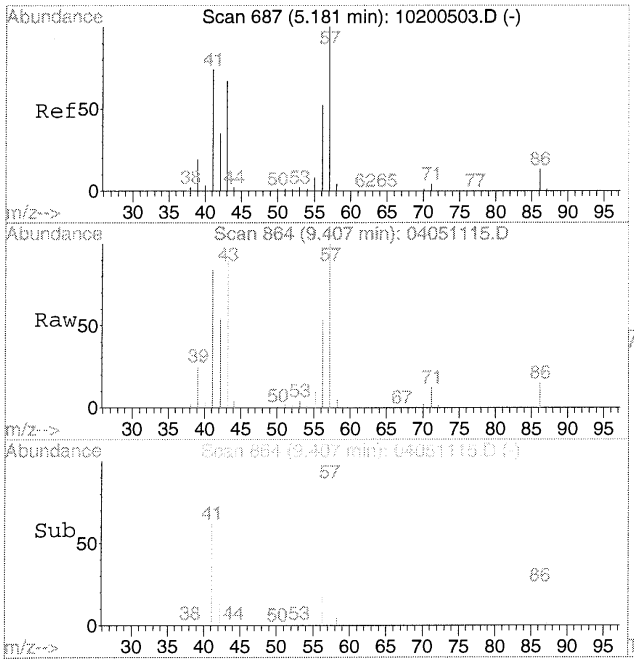


#2
Propylene
Concen: 18.41 ppbv
RT: 5.66 min Scan# 148
Delta R.T. -0.02 min
Lab File: 04051115.D
Acq: 5 Apr 2011 7:19 pm

Tgt Ion: 41 Resp: 485115

Ion	Ratio	Lower	Upper
41	100		
39	115.6	57.6	86.4#
42	38.8	54.0	81.0#

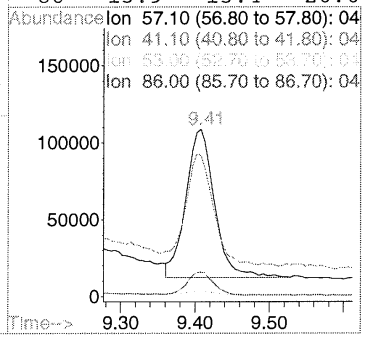


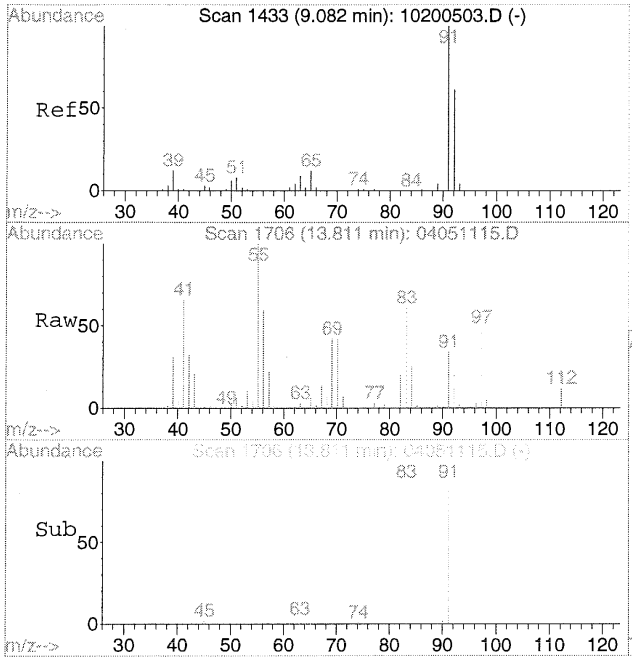


#20
n-Hexane
Concen: 5.03 ppbv
RT: 9.41 min Scan# 864
Delta R.T. 0.01 min
Lab File: 04051115.D
Acq: 5 Apr 2011 7:19 pm

Tgt Ion: 57 Resp: 258360

Ion	Ratio	Lower	Upper
57	100		
41	70.1	57.2	85.8
53	3.0	1.8	2.8#
86	13.9	13.4	20.0

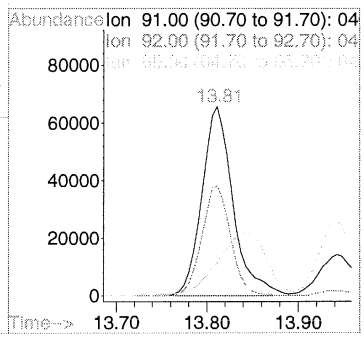


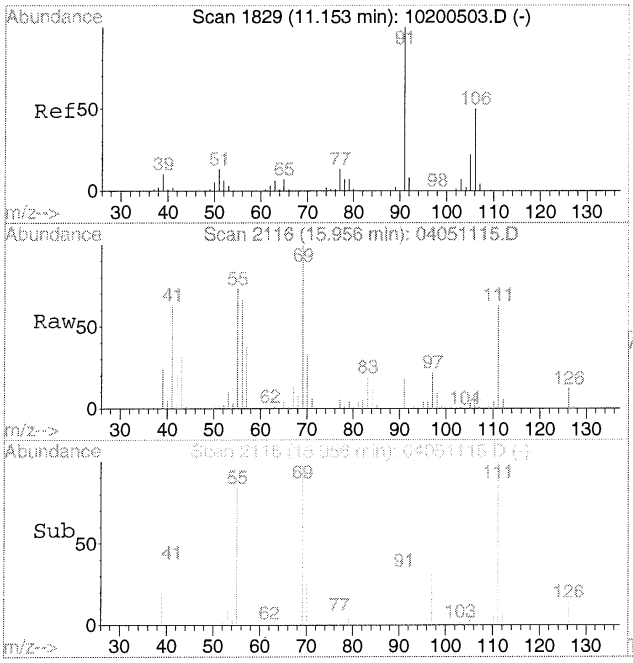


#41
Toluene
Concen: 1.89 ppbv
RT: 13.81 min Scan# 1706
Delta R.T. 0.01 min
Lab File: 04051115.D
Acq: 5 Apr 2011 7:19 pm

Tgt Ion: 91 Resp: 156430

Ion	Ratio	Lower	Upper
91	100		
92	53.5	40.5	80.5
65	52.2	0.0	31.2#

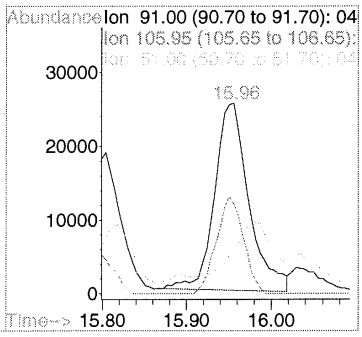




#51
m,p-Xylene
Concen: 0.50 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051115.D
Acq: 5 Apr 2011 7:19 pm

Tgt Ion: 91 Resp: 71226

Ion	Ratio	Lower	Upper
91	100		
106	40.8	35.6	75.6
51	42.2	0.0	29.6#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.338	55	86	131	rBV	5012368	33780082	24.04%	2.256%
2	5.663	133	148	174	rVB	894593	3295714	2.35%	0.220%
3	6.029	196	218	255	rBV	9456656	43579045	31.01%	2.910%
4	6.316	256	273	284	rVV	6567307	25235152	17.96%	1.685%
5	6.437	284	296	325	rVB	7307510	29627781	21.09%	1.978%
6	7.007	392	405	415	rBV	702104	1959740	1.39%	0.131%
7	7.070	415	417	418	rBV	20679929	12762736	9.08%	0.852%
8	7.556	498	510	556	rVB	7961558	29543591	21.03%	1.973%
9	8.173	613	628	713	rVB	21411930	111845764	79.60%	7.468%
10	8.728	722	734	735	rBV	21448530	26026852	18.52%	1.738%
11	9.109	797	807	854	rVB	18092049	63022813	44.85%	4.208%
12	9.936	951	965	971	rBV2	4626244	17375985	12.37%	1.160%
13	10.040	972	985	1010	rVV	24026703	136190677	96.93%	9.094%
14	10.249	1012	1025	1030	rVV	5186238	17091000	12.16%	1.141%
15	10.302	1031	1035	1052	rVB	5466767	13676937	9.73%	0.913%
16	10.705	1099	1112	1128	rBV2	4597643	18446772	13.13%	1.232%
17	10.846	1128	1139	1150	rBV2	932905	3865623	2.75%	0.258%
18	10.992	1150	1167	1201	rVB	22277835	125963138	89.65%	8.411%
19	11.233	1201	1213	1224	rBV	8400143	25703924	18.29%	1.716%
20	11.442	1225	1253	1259	rBV5	20690306	140510423	100.00%	9.382%
21	11.871	1326	1335	1350	rVB	1053721	2526077	1.80%	0.169%
22	12.033	1357	1366	1380	rVB	610601	1598905	1.14%	0.107%
23	12.226	1392	1403	1410	rBV	4968432	14618165	10.40%	0.976%
24	12.310	1410	1419	1433	rVV3	12439227	42105279	29.97%	2.811%
25	12.420	1433	1440	1442	rVV	2337465	4810181	3.42%	0.321%
26	12.472	1443	1450	1461	rVV	7557406	22745872	16.19%	1.519%
27	12.577	1461	1470	1475	rVV	2069774	5966096	4.25%	0.398%
28	12.645	1475	1483	1498	rVV	6064170	18867286	13.43%	1.260%
29	12.844	1502	1521	1537	rVV3	21720698	103674284	73.78%	6.922%
30	13.048	1537	1560	1575	rVB	21818637	92362025	65.73%	6.167%
31	13.194	1577	1588	1599	rVV3	2163455	7008656	4.99%	0.468%
32	13.299	1599	1608	1612	rVV	4322107	11367592	8.09%	0.759%
33	13.367	1613	1621	1635	rVV	11674102	40562794	28.87%	2.708%
34	13.592	1652	1664	1668	rBV3	3138140	8658910	6.16%	0.578%
35	13.639	1669	1673	1685	rVB	3424343	7585497	5.40%	0.506%
36	13.843	1697	1712	1722	rBV5	4580666	14610741	10.40%	0.976%
37	13.942	1722	1731	1741	rVV2	5131532	14505603	10.32%	0.969%
38	14.026	1741	1747	1751	rVV	983326	2105021	1.50%	0.141%
39	14.094	1751	1760	1772	rVB4	5941454	19304443	13.74%	1.289%
40	14.235	1772	1787	1795	rBV4	1789011	5969286	4.25%	0.399%
41	14.376	1804	1814	1825	rVB3	2269457	6833208	4.86%	0.456%
42	14.695	1865	1875	1889	rVV2	3191160	11271947	8.02%	0.753%
43	14.810	1889	1897	1903	rVV5	1784462	5706593	4.06%	0.381%

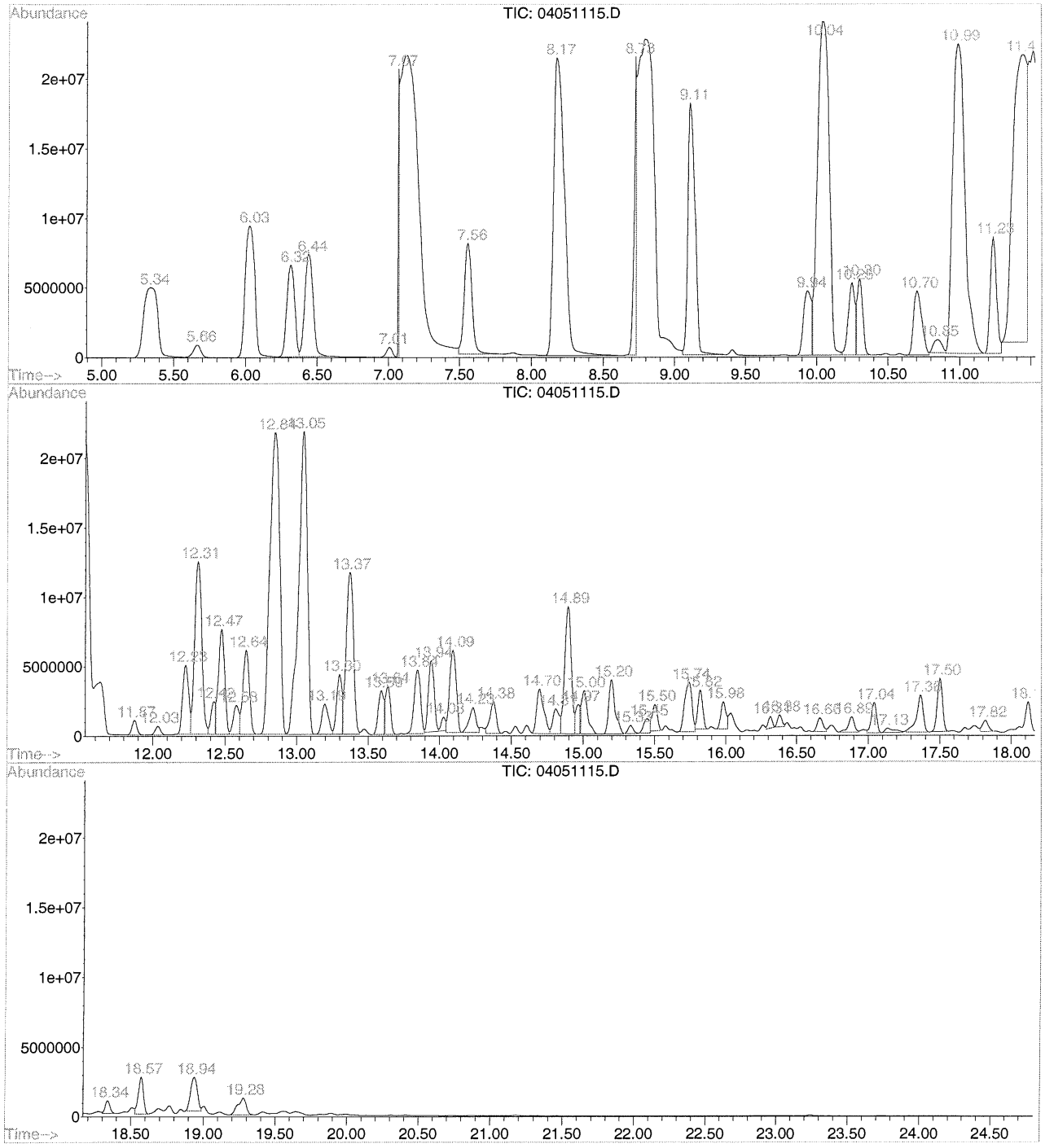
44	14.894	1903	1913	1922	rVV	9197737	29637504	21.09%	1.979%
45	14.967	1922	1927	1929	rVV3	2095518	4270235	3.04%	0.285%
46	15.004	1930	1934	1953	rVB2	3114906	8731322	6.21%	0.583%
47	15.197	1960	1971	1988	rBV3	3891470	12208950	8.69%	0.815%
48	15.333	1988	1997	2007	rBV4	583529	1497272	1.07%	0.100%
49	15.448	2008	2019	2023	rBV3	1022516	3086560	2.20%	0.206%
50	15.501	2023	2029	2038	rVB	1881906	4743015	3.38%	0.317%
51	15.741	2061	2075	2083	rBV2	3559120	12707830	9.04%	0.849%
52	15.820	2083	2090	2100	rVB2	2797913	6776055	4.82%	0.452%
53	15.982	2112	2121	2127	rBV	1959037	5101748	3.63%	0.341%
54	16.311	2179	2184	2191	rVV	826978	1713161	1.22%	0.114%
55	16.379	2191	2197	2204	rVV3	834078	1880191	1.34%	0.126%
56	16.662	2242	2251	2260	rBV3	979708	2781217	1.98%	0.186%
57	16.887	2277	2294	2303	rBV5	1099752	3291169	2.34%	0.220%
58	17.038	2314	2323	2333	rVB	2162467	5531624	3.94%	0.369%
59	17.132	2334	2341	2362	rBV8	322147	1572512	1.12%	0.105%
60	17.362	2366	2385	2397	rVB2	2659448	8676092	6.17%	0.579%
61	17.498	2401	2411	2422	rVB	3828063	9729602	6.92%	0.650%
62	17.817	2465	2472	2484	rVB3	795793	2270638	1.62%	0.152%
63	18.116	2521	2529	2541	rVB	2159675	5591939	3.98%	0.373%
64	18.335	2564	2571	2582	rVB	918788	2149187	1.53%	0.144%
65	18.571	2608	2616	2626	rVB	2659534	6646627	4.73%	0.444%
66	18.937	2675	2686	2695	rBV2	2427610	7792509	5.55%	0.520%
67	19.277	2733	2751	2766	rBV3	1215876	4990923	3.55%	0.333%

Sum of corrected areas: 1497646092

04051115.D 031611V1.M Thu Apr 14 12:40:47 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051115.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 7:19 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-037B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 8
Quant File :031611V1.RES (RTE Integrator)



04051115.D 031611V1.M Thu Apr 14 12:40:48 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Isobutane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.03	29.53 ppbv	43579000	Bromochloromethane	10.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	78
2	Isobutane $$ Propane, 2-methyl- $$	58	C4H10	000075-28-5	72
3	Isobutane	58	C4H10	000075-28-5	50
4	Propane, 2-nitro- $$ Dimethylnitrom	89	C3H7NO2	000079-46-9	9
5	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	9

****

Peak Number 2 Butane, 2,2-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.17	75.79 ppbv	111846000	Bromochloromethane	10.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	47
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	40
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	40
4	Pentane, 3-bromo- $$ 3-Bromopentane	150	C5H11Br	001809-10-5	38
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	35

****

Peak Number 3 Pentane, 3-methyl- $$ 3-Methyl Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.11	42.71 ppbv	63022800	Bromochloromethane	10.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	83
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	72
4	1-Butanol, 2-methyl- $$ sec-Butylca	88	C5H12O	000137-32-6	56
5	Cyclopropane, (1-methylethyl)- $$ P	84	C6H12	003638-35-5	42

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	92.29 ppbv	136191000	Bromochloromethane	10.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	58
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	58
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	43
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	37
5	2(3H)-Furanone, dihydro-5-methyl- $	100	C5H8O2	000108-29-2	35

****

Peak Number 5 Pentane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	85.36 ppbv	125963000	Bromochloromethane	10.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	87
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	80
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	80
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	64

****

Peak Number 6 Pentanal, 3-methyl- $$ Valeral Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.44	695.30 ppbv	140510000	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal, 3-methyl- $$ Valeraldehyd	100	C6H12O	015877-57-3	64
2	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	50
3	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	42
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	39
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	38

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	72.34 ppbv	14618200	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	58
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

****

Peak Number 8 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	208.35 ppbv	42105300	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	53
2	Cyclopentane, 1,1,3-trimethyl- $$ 1	112	C8H16	004516-69-2	43
3	1-Pentene, 2-methyl- $$ 2-Methyl-1-	84	C6H12	000763-29-1	38
4	1-Octene	112	C8H16	000111-66-0	38
5	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	37

****

Peak Number 9 Cyclohexane, methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	23.80 ppbv	4810180	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
3	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	91
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	83
5	Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	80

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,2,5,5-tetramethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	112.56 ppbv	22745900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	72
2	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	64
3	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	50
4	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	39

****

Peak Number 11 Hexane, 3,3-dimethyl- $$ 3,3-D Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	29.52 ppbv	5966100	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	78
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
3	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	59
4	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	43
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	43

****

Peak Number 12 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	93.36 ppbv	18867300	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	91
3	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	016883-48-0	90
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	80
5	2-Heptene, 3-methyl-	112	C8H16	003404-75-9	72

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.84	513.02 ppbv	103674000	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	81
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
4	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
5	Isobutanoic acid, 2-ethylhexyl este	200	C12H24O2	000000-00-0	45

****

Peak Number 14 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.05	457.04 ppbv	92362000	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	64
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	59
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	56
4	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	56
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	53

****

Peak Number 15 Hexane, 3,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	34.68 ppbv	7008660	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	91
2	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	83
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	53
4	Furan, tetrahydro-2,5-dimethyl- $$	100	C6H12O	001003-38-9	50
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	45

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Cyclopentane, propyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.30	56.25 ppbv	11367600	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, propyl-	112	C8H16	002040-96-2	64
2	cis-1-Methyl-2-ethylcyclopentane	112	C8H16	000000-00-0	43
3	1-Heptene, 6-methyl- $$ 6-Methyl-1-	112	C8H16	005026-76-6	43
4	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	43
5	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	38

****

Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.37	200.72 ppbv	40562800	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	45
3	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	45
4	1-Butanol, 3,3-dimethyl- $$ 3,3-Dim	102	C6H14O	000624-95-3	42
5	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	42

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, tr Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.59	42.85 ppbv	8658910	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
2	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	81
3	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	81
4	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	72
5	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	70

Data File : C:\HPCHEM\1\DATA\040511\04051115.D Vial: 8
Acq On : 5 Apr 2011 7:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,4-dimethyl-, ci Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	37.54 ppbv	7585500	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	80
2	Acetaldehyde, 2-butenylhydrazone $$	112	C6H12N2	075268-07-4	72
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	72
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	64
5	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	64

****

Peak Number 20 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	29.15 ppbv	29637500	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
2	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	90
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	83
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
5	Cyclohexane, 1,3,5-trimethyl-, (1.a	126	C9H18	001795-27-3	50

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 7:19 pm
Data File: C:\HPCHEM\1\DATA\040511\04051115.D
Name: 1103389-037B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Isobutane	6.03	29.5	ppbv	43579000	ISTD01	10.75	18446800	12.5
Butane, 2,2-dimethyl	8.17	75.8	ppbv	111846000	ISTD01	10.75	18446800	12.5
Pentane, 3-methyl- $	9.11	42.7	ppbv	63022800	ISTD01	10.75	18446800	12.5
Pentane, 2,4-dimethy	10.04	92.3	ppbv	136191000	ISTD01	10.75	18446800	12.5
Pentane, 2,3-dimethy	10.99	85.4	ppbv	125963000	ISTD01	10.75	18446800	12.5
Pentanal, 3-methyl-	11.44	695.3	ppbv	140510000	ISTD02	11.87	2526080	12.5
Hexane, 2,5-dimethyl	12.23	72.3	ppbv	14618200	ISTD02	11.87	2526080	12.5
Cyclopentane, 1,1,3-	12.31	208.4	ppbv	42105300	ISTD02	11.87	2526080	12.5
Cyclohexane, methyl-	12.42	23.8	ppbv	4810180	ISTD02	11.87	2526080	12.5
Hexane, 2,2,5,5-tetr	12.47	112.6	ppbv	22745900	ISTD02	11.87	2526080	12.5
Hexane, 3,3-dimethyl	12.58	29.5	ppbv	5966100	ISTD02	11.87	2526080	12.5
Cyclopentane, 1,2,4-	12.64	93.4	ppbv	18867300	ISTD02	11.87	2526080	12.5
Pentane, 2,3,4-trime	12.84	513.0	ppbv	103674000	ISTD02	11.87	2526080	12.5
Pentane, 2,3,3-trime	13.05	457.0	ppbv	92362000	ISTD02	11.87	2526080	12.5
Hexane, 3,4-dimethyl	13.19	34.7	ppbv	7008660	ISTD02	11.87	2526080	12.5
Cyclopentane, propyl	13.30	56.3	ppbv	11367600	ISTD02	11.87	2526080	12.5
Hexane, 2,2,5-trimet	13.37	200.7	ppbv	40562800	ISTD02	11.87	2526080	12.5
Cyclohexane, 1,3-dim	13.59	42.8	ppbv	8658910	ISTD02	11.87	2526080	12.5
Cyclohexane, 1,4-dim	13.64	37.5	ppbv	7585500	ISTD02	11.87	2526080	12.5
Cyclohexane, 1,1,3-t	14.89	29.2	ppbv	29637500	ISTD03	15.72	12707800	12.5

04051115.D 031611V1.M Thu Apr 14 12:40:48 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:51 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	687011	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2335522	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1887500	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1201692	12.70	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.60%				
Target Compounds							Qvalue
2) Propylene*	5.67	41	109408	2.12	ppbv		93
11) Ethanol *	7.75	45	15950	1.40	ppbv	#	80
14) Acetone	8.36	43	2280008	26.93	ppbv	#	90
17) Methylene chloride*	8.93	49	71710	1.04	ppbv		97
20) n-Hexane	9.40	57	5034660	50.18	ppbv		100
24) 2-Butanone*	10.43	43	354397	4.06	ppbv		94
29) Cyclohexane	11.04	56	3948126	38.87	ppbv	#	82
31) Benzene*	11.48	78	2701223	15.90	ppbv		95
34) Heptane	11.53	43	2974342	26.37	ppbv	#	93
41) Toluene	13.81	91	4628557	26.30	ppbv		97
50) Ethylbenzene*	15.81	91	327216	1.49	ppbv		96
51) m,p-Xylene *	15.96	91	540342	3.18	ppbv		95
52) o-Xylene *	16.55	91	156489	0.95	ppbv	#	88

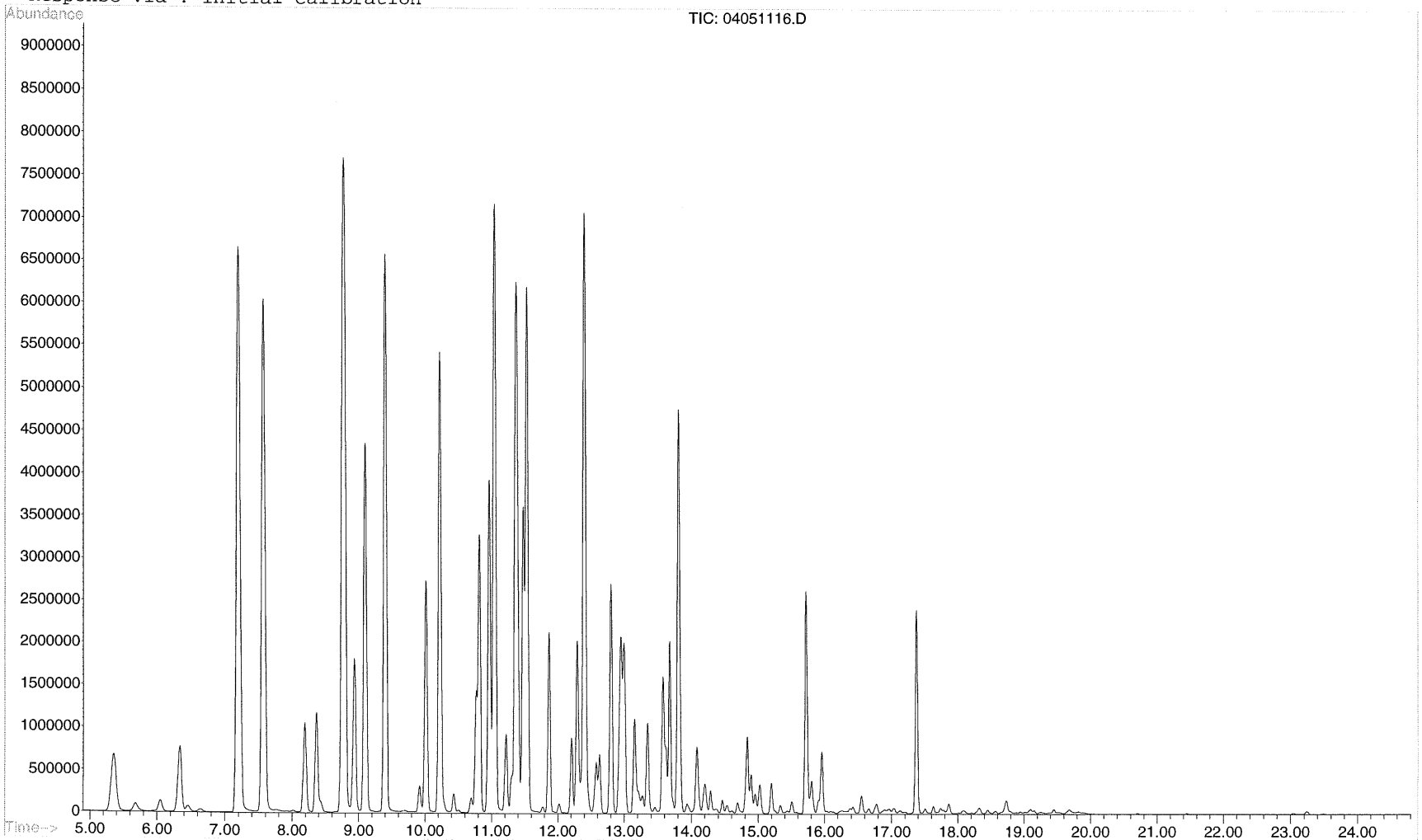
* = reported only 4/15/11 AP

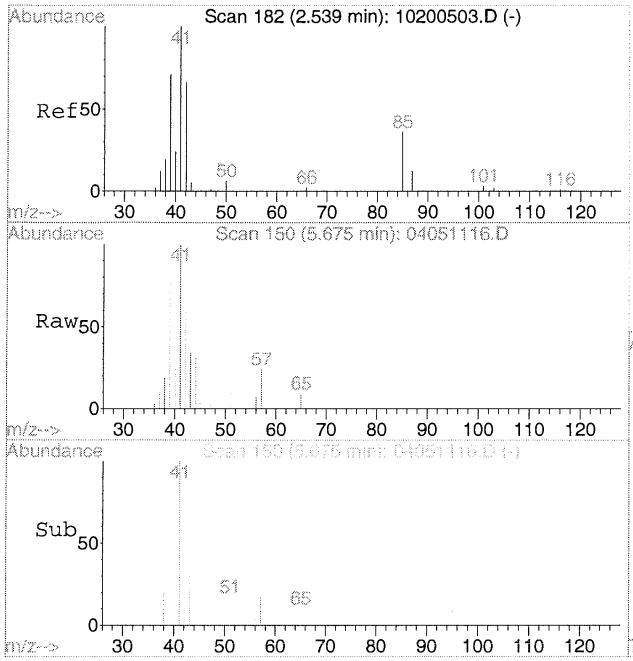
(#) = qualifier out of range (m) = manual integration
04051116.D 031611V1.M Thu Apr 14 12:40:57 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:51 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

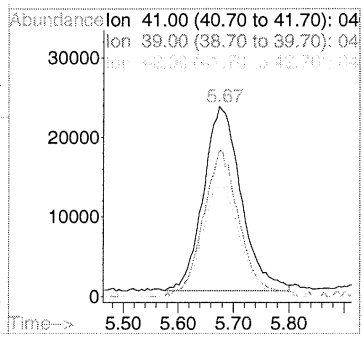


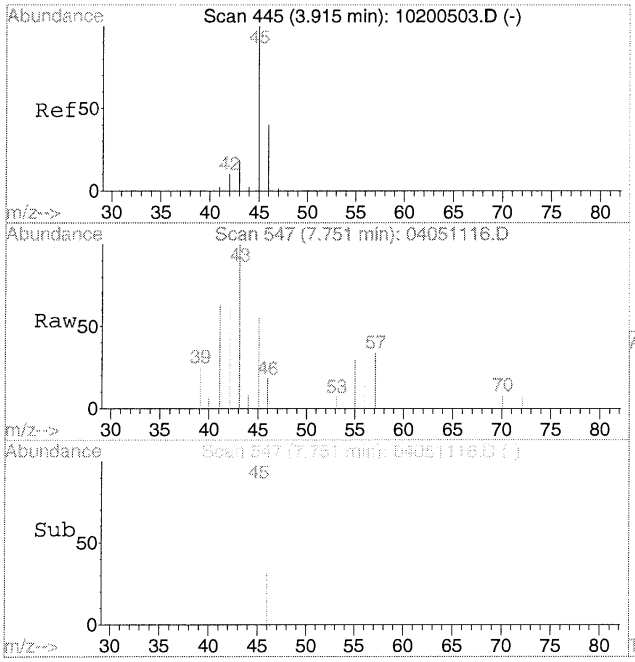


#2
Propylene
Concen: 2.12 ppbv
RT: 5.67 min Scan# 150
Delta R.T. -0.01 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 41 Resp: 109408

Ion	Ratio	Lower	Upper
41	100		
39	76.3	57.6	86.4
42	60.8	54.0	81.0

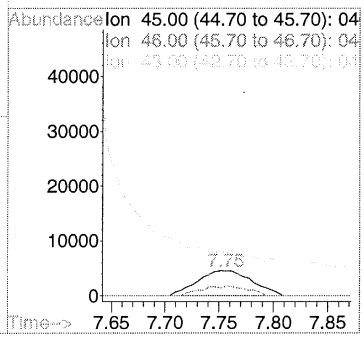


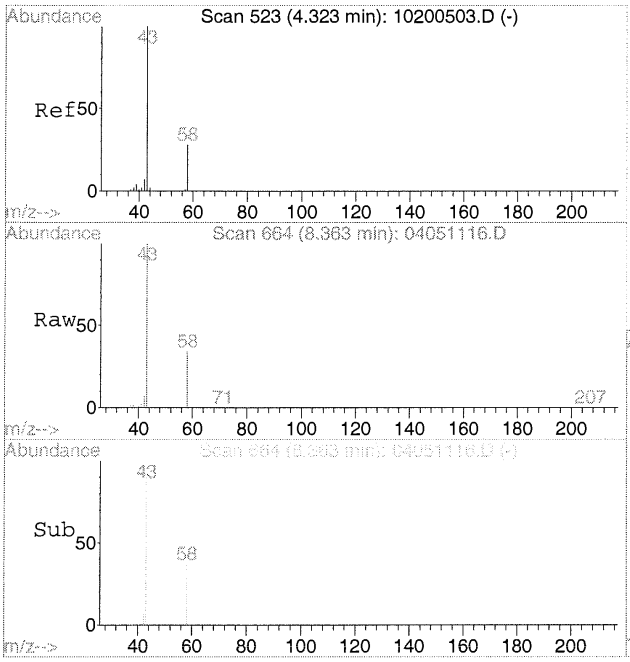


#11
Ethanol
Concen: 1.40 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 45 Resp: 15950

Ion	Ratio	Lower	Upper
45	100		
46	33.1	30.2	45.4
43	0.0	15.8	23.6#

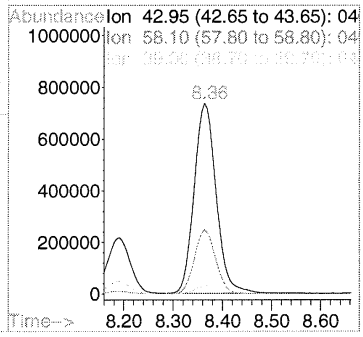


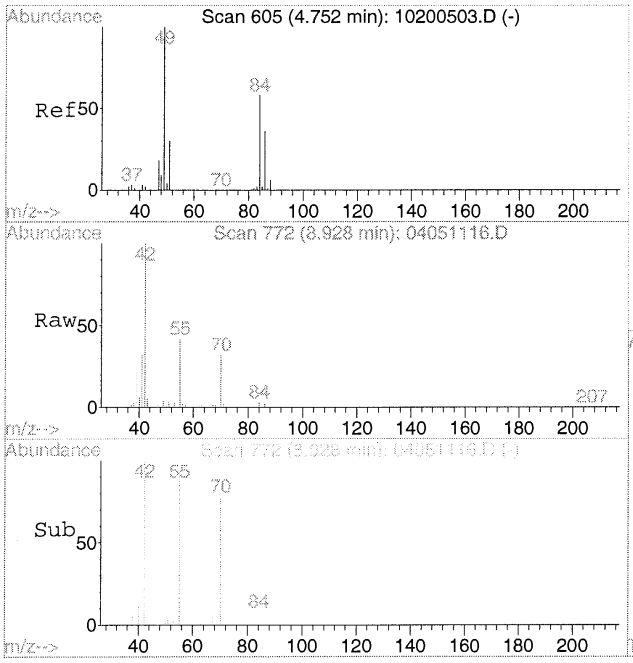


#14
Acetone
Concen: 26.93 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.01 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 43 Resp: 2280008

Ion	Ratio	Lower	Upper
43	100		
58	32.8	22.0	33.0
39	4.5	6.5	9.7#

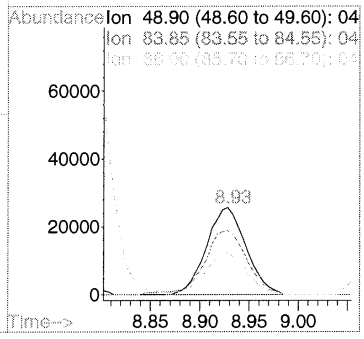


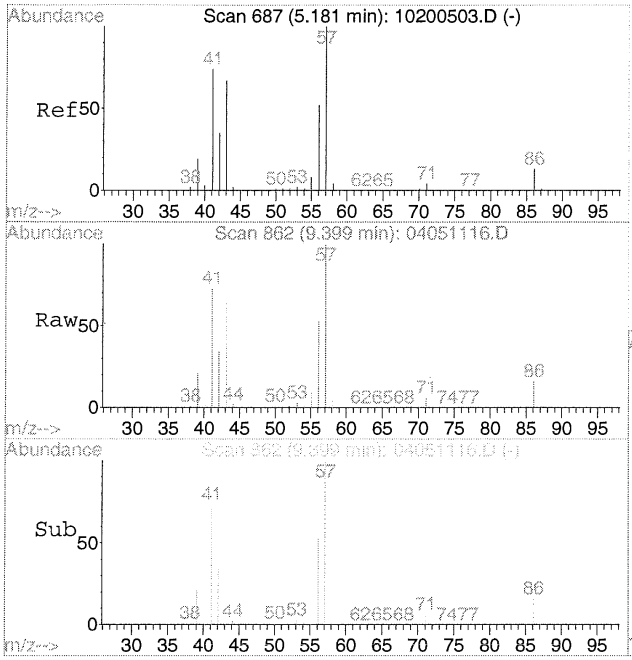


#17
Methylene chloride
Concen: 1.04 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 49 Resp: 71710

Ion	Ratio	Lower	Upper
49	100		
84	79.0	65.4	98.2
86	50.2	42.3	63.5

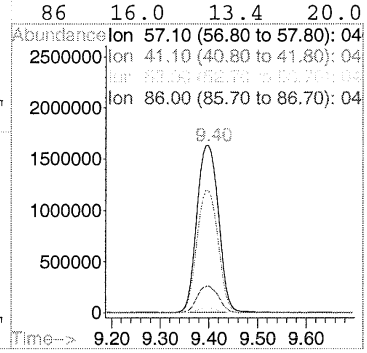


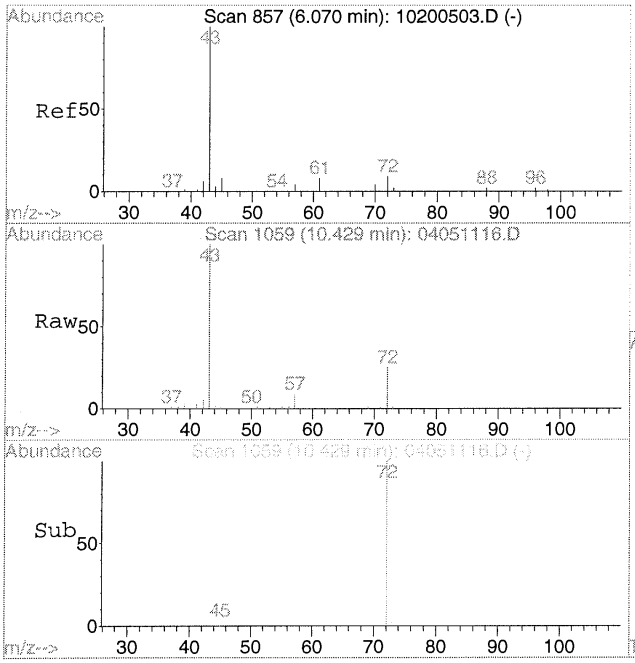


#20
n-Hexane
Concen: 50.18 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 57 Resp: 5034660

Ion	Ratio	Lower	Upper
57	100		
41	71.6	57.2	85.8
53	2.6	1.8	2.8
86	16.0	13.4	20.0

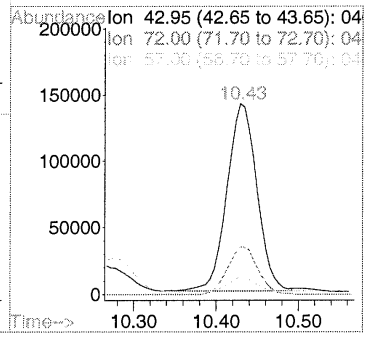


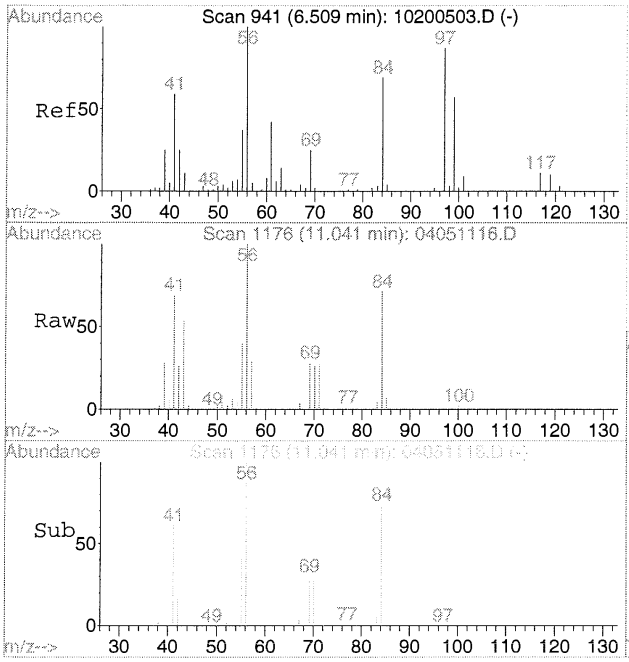


#24
2-Butanone
Concen: 4.06 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 43 Resp: 354397

Ion	Ratio	Lower	Upper
43	100		
72	25.5	23.4	35.2
57	7.9	6.9	10.3

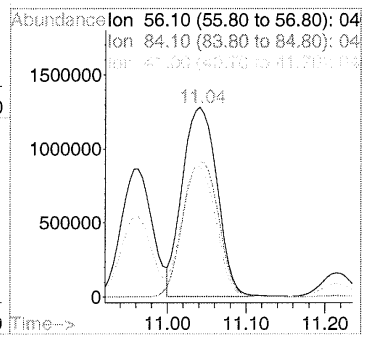


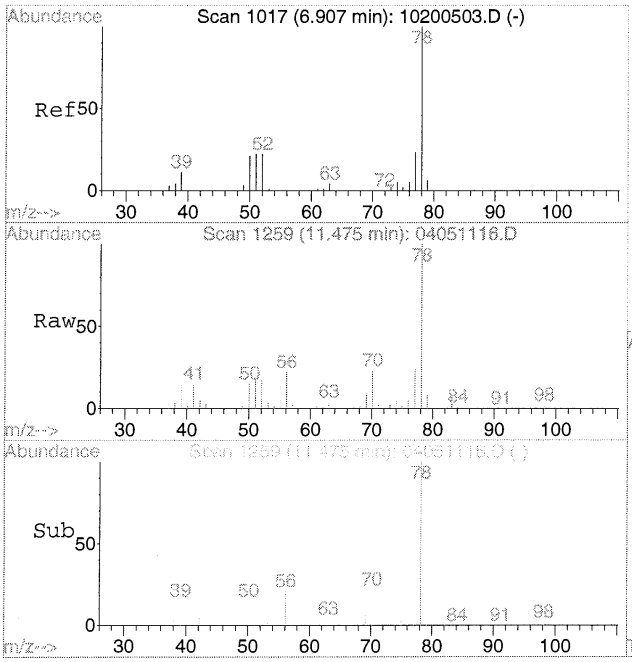


#29
Cyclohexane
Concen: 38.87 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 56 Resp: 3948126

Ion	Ratio	Lower	Upper
56	100		
84	73.0	72.4	108.6
41	68.2	43.8	65.8#

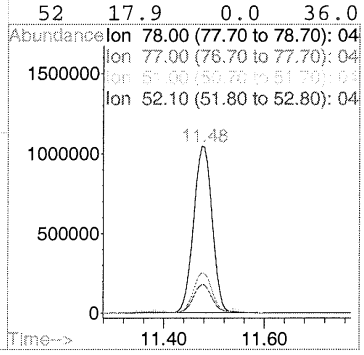


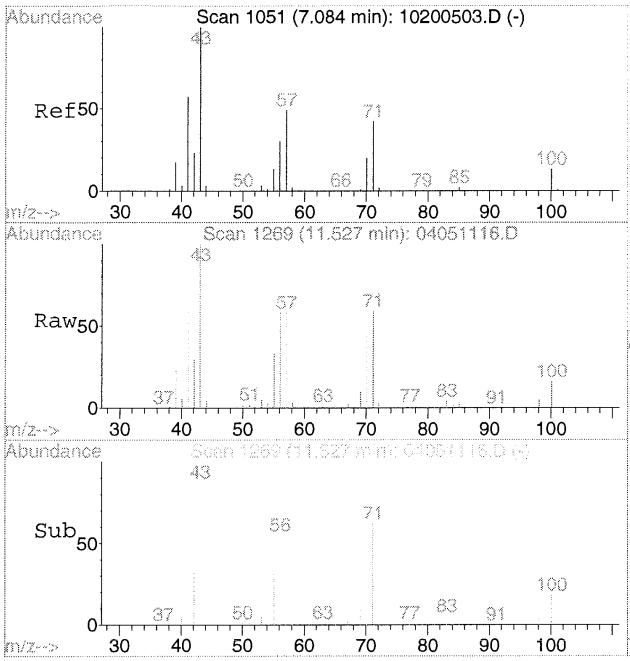


#31
Benzene
Concen: 15.90 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 78 Resp: 2701223

Ion	Ratio	Lower	Upper
78	100		
77	25.0	3.7	43.7
51	19.8	0.0	36.1
52	17.9	0.0	36.0

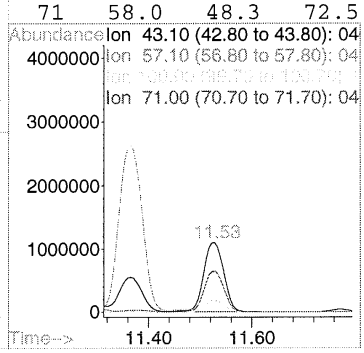


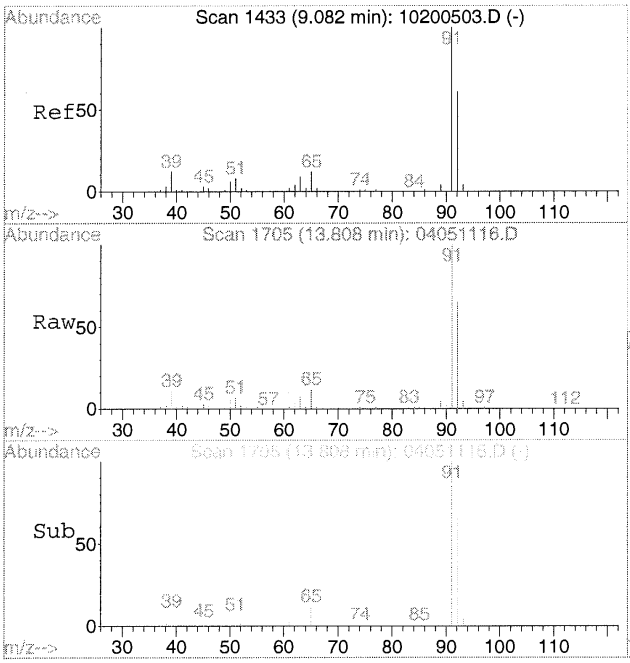


#34
Heptane
Concen: 26.37 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 43 Resp: 2974342

Ion	Ratio	Lower	Upper
43	100		
57	59.5	42.2	63.4
100	16.0	17.3	25.9#
71	58.0	48.3	72.5

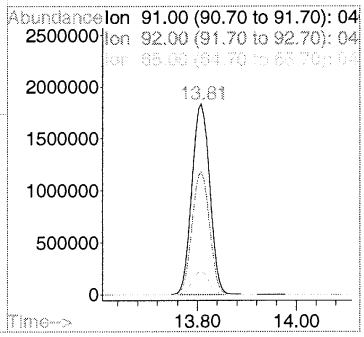


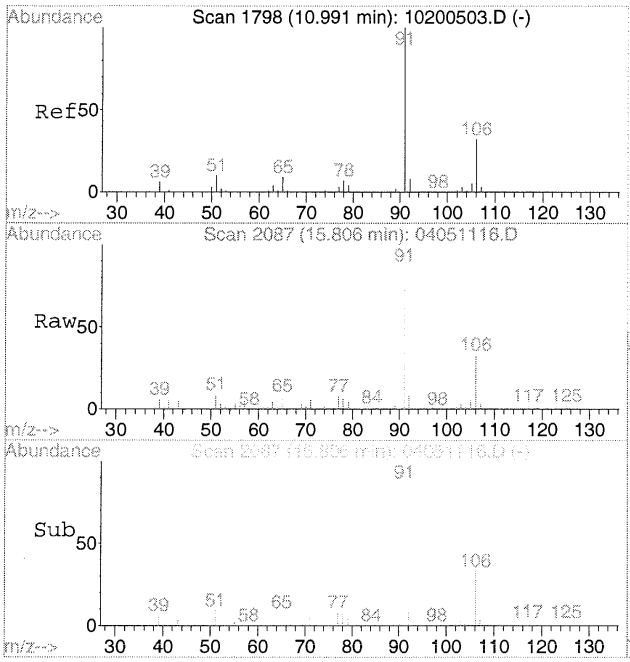


#41
Toluene
Concen: 26.30 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 91 Resp: 4628557

Ion	Ratio	Lower	Upper
91	100		
92	62.9	40.5	80.5
65	11.9	0.0	31.2

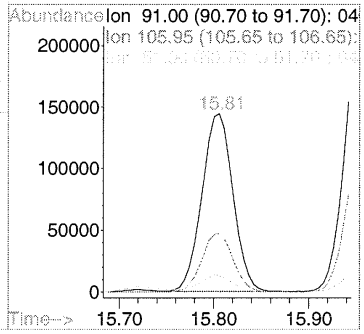


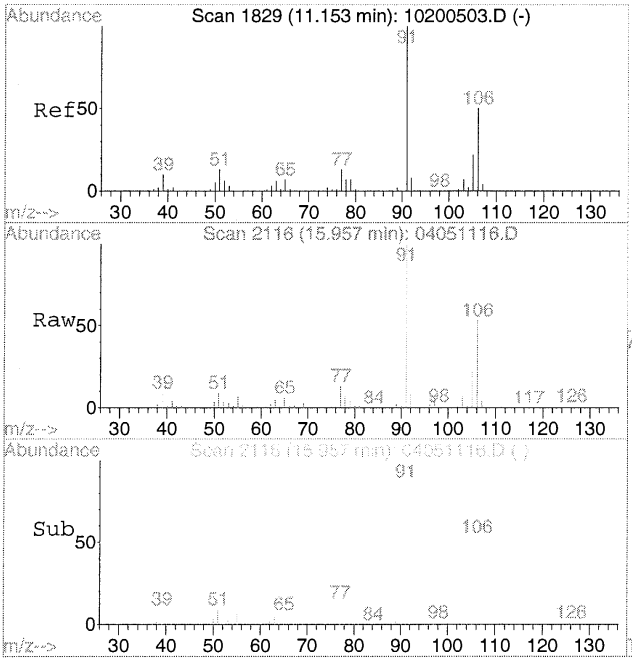


#50
Ethylbenzene
Concen: 1.49 ppbv
RT: 15.81 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 91 Resp: 327216

Ion	Ratio	Lower	Upper
91	100		
106	33.3	14.9	54.9
51	9.8	0.0	33.1

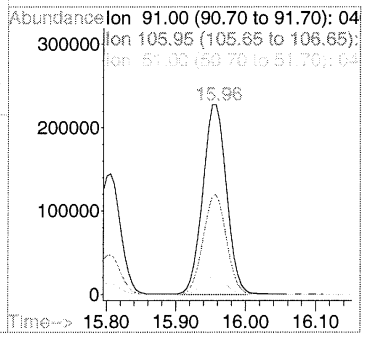


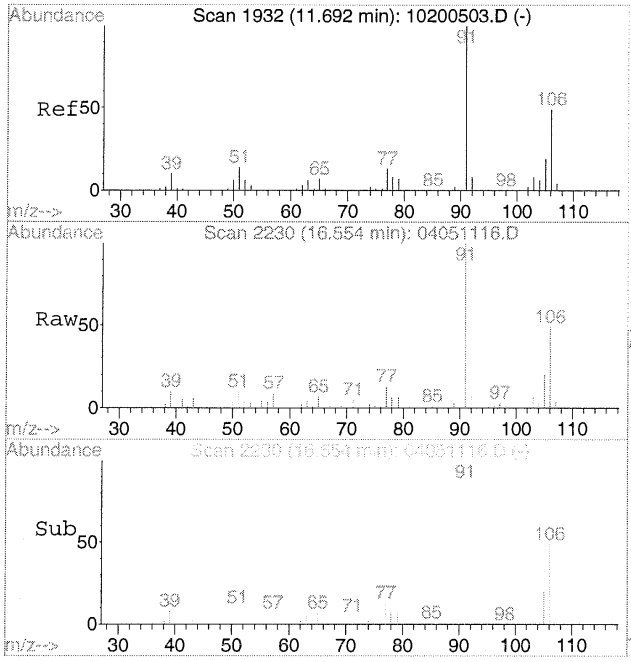


#51
m,p-Xylene
Concen: 3.18 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 91 Resp: 540342

Ion	Ratio	Lower	Upper
91	100		
106	51.6	35.6	75.6
51	9.5	0.0	29.6

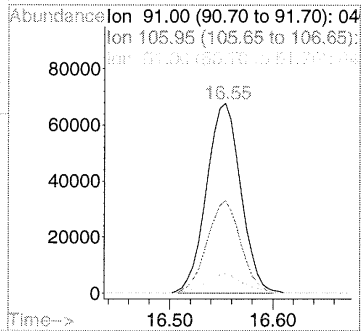




#52
o-Xylene
Concen: 0.95 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051116.D
Acq: 5 Apr 2011 8:04 pm

Tgt Ion: 91 Resp: 156489

Ion	Ratio	Lower	Upper
91	100		
106	47.6	41.0	61.6
51	11.3	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.356	64	89	122	rBV	671266	3704186	11.71%	1.029%
2	5.675	133	150	178	rVB4	93936	465719	1.47%	0.129%
3	6.051	207	222	238	rVB2	131674	518707	1.64%	0.144%
4	6.339	256	277	291	rBV2	770301	3043402	9.62%	0.846%
5	7.192	422	440	481	rBV	6658847	26248964	83.00%	7.293%
6	7.568	495	512	540	rBV	6021828	21644268	68.44%	6.014%
7	8.191	615	631	650	rBV	1046383	3420461	10.82%	0.950%
8	8.363	650	664	689	rVV	1162094	3830686	12.11%	1.064%
9	8.771	724	742	761	rBV3	7700166	31623437	100.00%	8.787%
10	8.933	761	773	790	rVV	1795368	5450733	17.24%	1.515%
11	9.095	790	804	834	rVB	4340786	13243919	41.88%	3.680%
12	9.399	848	862	894	rVB	6561522	19916270	62.98%	5.534%
13	9.916	950	961	969	rBV	306224	838466	2.65%	0.233%
14	10.011	969	979	996	rVB	2719386	7551936	23.88%	2.098%
15	10.220	1005	1019	1044	rBV	5407805	15923552	50.35%	4.424%
16	10.429	1050	1059	1069	rBV	208546	514616	1.63%	0.143%
17	10.691	1098	1109	1114	rBV2	170977	445199	1.41%	0.124%
18	10.769	1114	1124	1126	rVV	1431095	3191682	10.09%	0.887%
19	10.816	1126	1133	1147	rVV	3274318	8718823	27.57%	2.423%
20	10.963	1147	1161	1167	rVV	3921372	10654449	33.69%	2.960%
21	11.041	1167	1176	1198	rVV2	7165921	21993229	69.55%	6.111%
22	11.214	1198	1209	1218	rVV	912243	2521017	7.97%	0.700%
23	11.302	1218	1226	1227	rVV2	436017	820830	2.60%	0.228%
24	11.365	1228	1238	1251	rVV	6242201	21945177	69.40%	6.098%
25	11.475	1251	1259	1263	rVV2	3603797	9071992	28.69%	2.521%
26	11.527	1263	1269	1307	rVV2	6183638	17525680	55.42%	4.870%
27	11.867	1323	1334	1353	rVV	2120070	5131350	16.23%	1.426%
28	12.202	1387	1398	1406	rBV	872068	2088565	6.60%	0.580%
29	12.291	1406	1415	1424	rBV	1932460	4993944	15.79%	1.388%
30	12.396	1425	1435	1457	rVB	7044248	21049650	66.56%	5.849%
31	12.579	1457	1470	1474	rBV3	568642	1517318	4.80%	0.422%
32	12.626	1475	1479	1495	rVB	678853	1537130	4.86%	0.427%
33	12.798	1498	1512	1526	rBV2	2698013	7075926	22.38%	1.966%
34	12.945	1526	1540	1545	rBV4	2055337	6298170	19.92%	1.750%
35	13.149	1568	1579	1597	rBV2	1095832	3651897	11.55%	1.015%
36	13.269	1599	1602	1608	rVV2	192649	410047	1.30%	0.114%
37	13.347	1608	1617	1631	rVV	1033491	2675805	8.46%	0.743%
38	13.578	1650	1661	1668	rBV	1571166	4521107	14.30%	1.256%
39	13.677	1673	1680	1694	rVV	1994593	4732285	14.96%	1.315%
40	13.808	1694	1705	1721	rVB	4740365	12575255	39.77%	3.494%
41	14.080	1742	1757	1770	rBV2	756828	2190160	6.93%	0.609%
42	14.200	1770	1780	1790	rVV4	308947	924555	2.92%	0.257%
43	14.289	1790	1797	1806	rVB	227644	465591	1.47%	0.129%

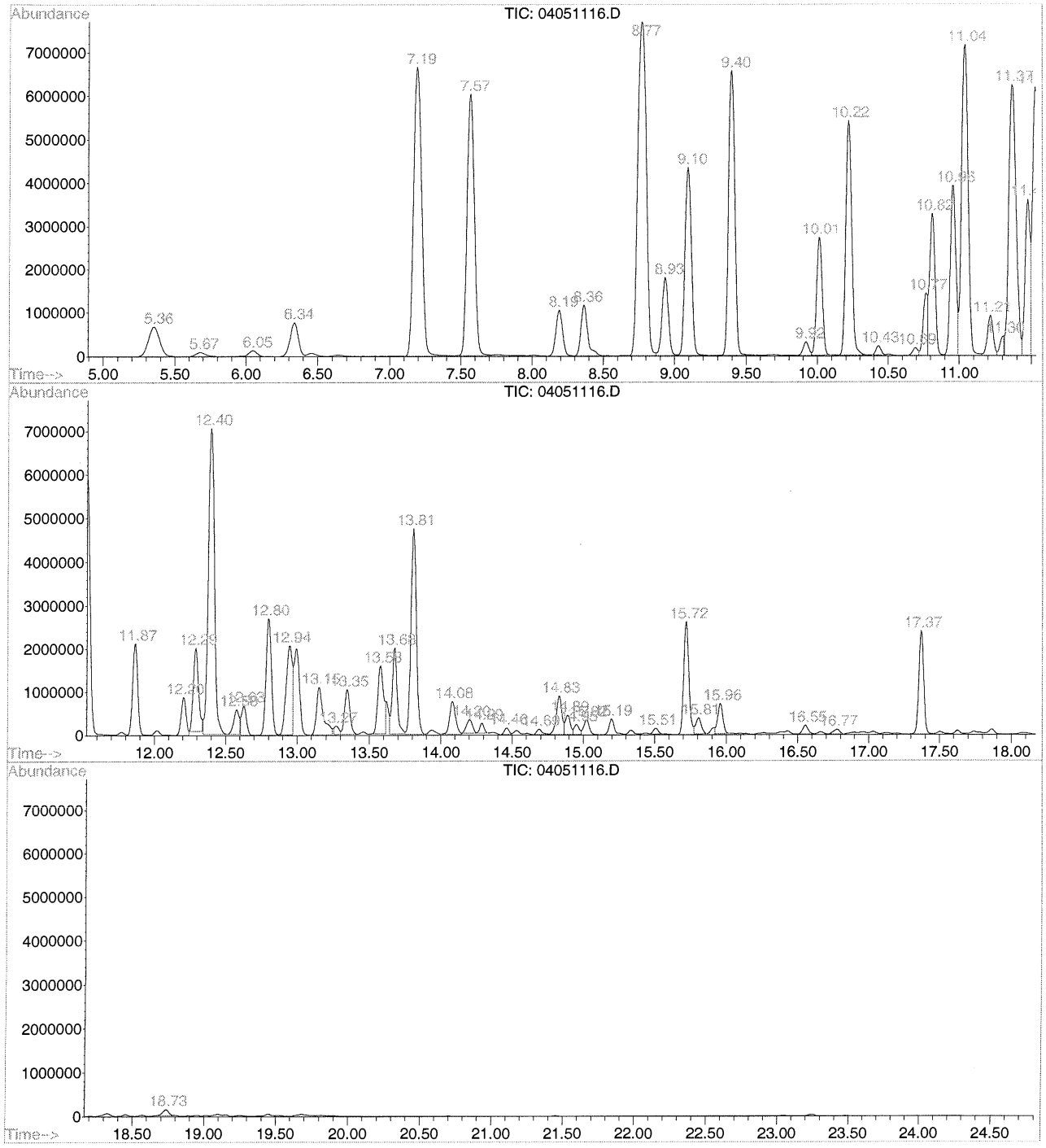
44	14.461	1821	1830	1837	rBV	152407	341243	1.08%	0.095%
45	14.686	1865	1873	1887	rBV2	122952	334504	1.06%	0.093%
46	14.828	1887	1900	1907	rVV	887656	2461442	7.78%	0.684%
47	14.890	1907	1912	1919	rVV	444581	1104004	3.49%	0.307%
48	14.953	1919	1924	1930	rVV4	223506	547589	1.73%	0.152%
49	15.021	1930	1937	1956	rVB3	344869	945568	2.99%	0.263%
50	15.194	1958	1970	1989	rBV	359848	970470	3.07%	0.270%
51	15.508	2022	2030	2040	rVB3	130323	320414	1.01%	0.089%
52	15.722	2058	2071	2081	rBV	2613033	6493891	20.54%	1.804%
53	15.806	2081	2087	2098	rVV	372984	985911	3.12%	0.274%
54	15.957	2109	2116	2128	rVB	693029	1722130	5.45%	0.479%
55	16.554	2220	2230	2242	rBV	204879	534949	1.69%	0.149%
56	16.773	2260	2272	2282	rBV6	108010	330404	1.04%	0.092%
57	17.369	2367	2386	2400	rBV	2394023	5705023	18.04%	1.585%
58	18.735	2634	2647	2657	rBV2	140369	431697	1.37%	0.120%

Sum of corrected areas: 359895394

04051116.D 031611V1.M Thu Apr 14 12:41:02 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051116.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 8:04 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-022B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 9
Quant File :031611V1.RES (RTE Integrator)



04051116.D 031611V1.M Thu Apr 14 12:41:03 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	14.51 ppbv	3704190	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	11.92 ppbv	3043400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	86
2	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
3	Isobutane	58	C4H10	000075-28-5	9
4	Diazene, dimethyl-	58	C2H6N2	000503-28-6	5
5	Propanal	58	C3H6O	000123-38-6	4

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	102.80 ppbv	26249000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	3-Buten-1-ol	72	C4H8O	000627-27-0	25
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane $$ n-Pentane $$ Skelly Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	84.77 ppbv	21644300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	86
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

****

Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	13.40 ppbv	3420460	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	37

****

Peak Number 6 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	123.85 ppbv	31623400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	51.87 ppbv	13243900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

****

Peak Number 8 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	29.58 ppbv	7551940	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 9 Cyclopentane, methyl- $$ Methy Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	62.36 ppbv	15923600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclohexane	84	C6H12	000110-82-7	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.82	34.15 ppbv	8718820	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	87
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	81
3	Hexane, 2-methyl- $$ 2-Methylhexane	100	C7H16	000591-76-4	81
4	Methylamine, N-(1-ethylpentylidene)	127	C8H17N	018641-73-1	64
5	2-Pyrrolidinone	85	C4H7NO	000616-45-5	53

****

Peak Number 11 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	41.73 ppbv	10654400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 12 Cyclopentane, 1,1-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	9.87 ppbv	2521020	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	46
3	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
4	1-Heptene, 6-methyl- $$ 6-Methyl-1-	112	C8H16	005026-76-6	40
5	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	37

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Pentane, 2,2,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	53.46 ppbv	21945200	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	59

****

Peak Number 14 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	12.17 ppbv	4993940	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	50
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43
5	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	40

****

Peak Number 15 Cyclohexane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	51.28 ppbv	21049700	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	17.24 ppbv	7075930	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
5	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64

****

Peak Number 17 Heptane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	15.34 ppbv	6298170	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	70
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	53
4	Pyrrolidine $$ Azacyclopentane $$ A	71	C4H9N	000123-75-1	50
5	Butane, 1-(ethenyloxy)-3-methyl-	114	C7H14O	039782-38-2	50

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	8.90 ppbv	3651900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051116.D Vial: 9
Acq On : 5 Apr 2011 8:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl- $$ Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	11.01 ppbv	4521110	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
3	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	93
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	90

****

Peak Number 20 Octane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	11.53 ppbv	4732290	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 8:04 pm
Data File: C:\HPCHEM\1\DATA\040511\04051116.D
Name: 1103389-022B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	14.5	ppbv	3704190	ISTD01	10.76	3191680	12.5
Butane	6.34	11.9	ppbv	3043400	ISTD01	10.76	3191680	12.5
Butane, 2-methyl-	7.19	102.8	ppbv	26249000	ISTD01	10.76	3191680	12.5
Pentane $$ n-Pentane	7.57	84.8	ppbv	21644300	ISTD01	10.76	3191680	12.5
Butane, 2,2-dimethyl	8.19	13.4	ppbv	3420460	ISTD01	10.76	3191680	12.5
Pentane, 2-methyl-	8.77	123.9	ppbv	31623400	ISTD01	10.76	3191680	12.5
Pentane, 3-methyl-	9.10	51.9	ppbv	13243900	ISTD01	10.76	3191680	12.5
Pentane, 2,4-dimethy	10.01	29.6	ppbv	7551940	ISTD01	10.76	3191680	12.5
Cyclopentane, methyl	10.22	62.4	ppbv	15923600	ISTD01	10.76	3191680	12.5
Hexane, 2-methyl-	10.82	34.1	ppbv	8718820	ISTD01	10.76	3191680	12.5
Pentane, 2,3-dimethy	10.96	41.7	ppbv	10654400	ISTD01	10.76	3191680	12.5
Cyclopentane, 1,1-di	11.21	9.9	ppbv	2521020	ISTD01	10.76	3191680	12.5
Pentane, 2,2,4-trime	11.37	53.5	ppbv	21945200	ISTD02	11.87	5131350	12.5
Hexane, 1-(hexyloxy)	12.29	12.2	ppbv	4993940	ISTD02	11.87	5131350	12.5
Cyclohexane, methyl-	12.40	51.3	ppbv	21049700	ISTD02	11.87	5131350	12.5
Pentane, 2,3,4-trime	12.80	17.2	ppbv	7075930	ISTD02	11.87	5131350	12.5
Heptane, 2-methyl-	12.94	15.3	ppbv	6298170	ISTD02	11.87	5131350	12.5
Heptane, 3-methyl-	13.15	8.9	ppbv	3651900	ISTD02	11.87	5131350	12.5
Cyclohexane, 1,3-dim	13.58	11.0	ppbv	4521110	ISTD02	11.87	5131350	12.5
Octane	13.68	11.5	ppbv	4732290	ISTD02	11.87	5131350	12.5

04051116.D 031611V1.M Thu Apr 14 12:41:04 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	714788	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2520846	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1946870	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1228889	12.59	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.72%				
Target Compounds							Qvalue
2) Propylene*	5.68	41	59230	1.11	ppbv		93
14) Acetone*	8.36	43	1356328	15.40	ppbv	#	90
17) Methylene chloride*	8.92	49	154164	2.14	ppbv		97
20) n-Hexane	9.40	57	3623736	34.72	ppbv		99
24) 2-Butanone*	10.43	43	218203	2.40	ppbv		94
29) Cyclohexane	11.04	56	2714544	25.69	ppbv	#	84
31) Benzene*	11.48	78	1708844	9.67	ppbv		96
34) Heptane*	11.53	43	2072292	17.02	ppbv	#	94
41) Toluene*	13.81	91	2708242	14.25	ppbv		99
50) Ethylbenzene*	15.80	91	190928	0.84	ppbv		95
51) m,p-Xylene*	15.96	91	314961	1.80	ppbv		94
52) o-Xylene*	16.55	91	93609	0.55	ppbv	#	89

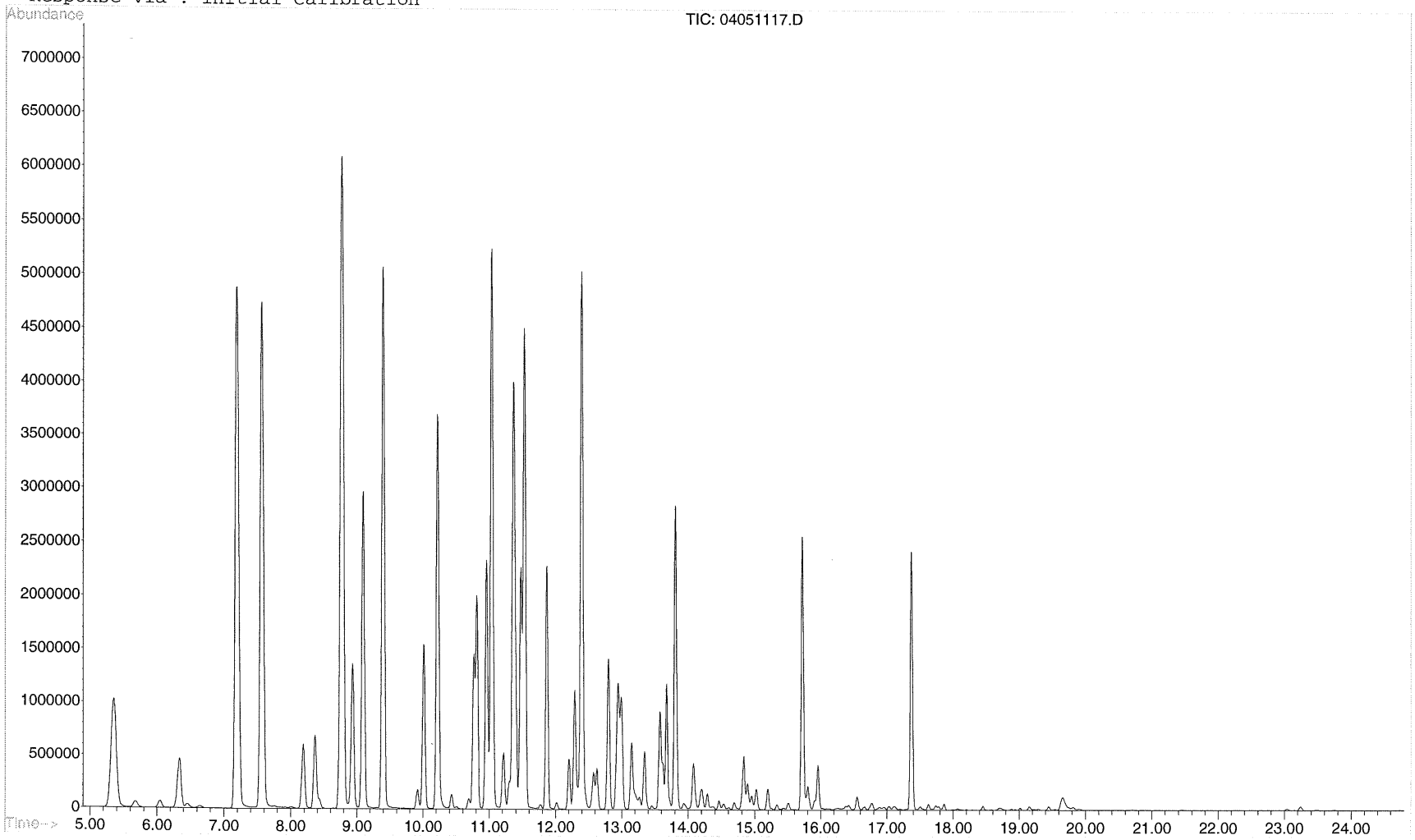
* = reported only 4/15/11 AP

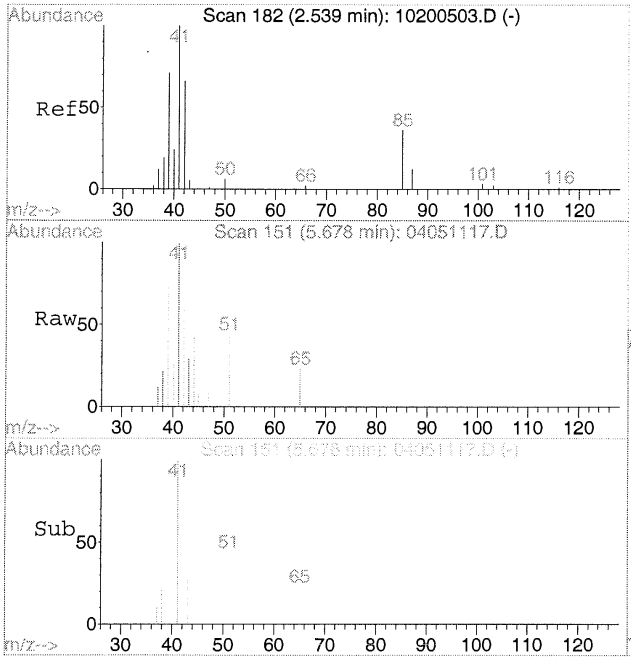
(#) = qualifier out of range (m) = manual integration
04051117.D 031611V1.M Thu Apr 14 12:42:10 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:52 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

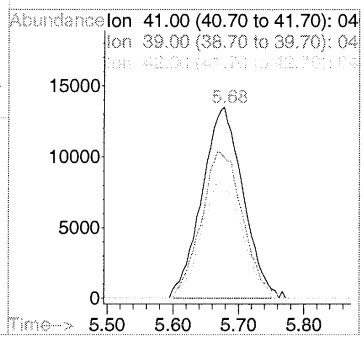


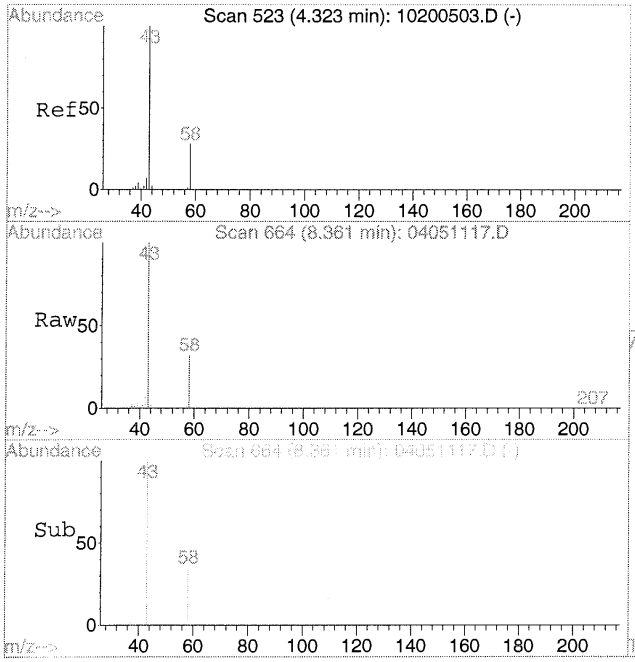


#2
Propylene
Concen: 1.11 ppbv
RT: 5.68 min Scan# 151
Delta R.T. -0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 41 Resp: 59230

Ion	Ratio	Lower	Upper
41	100		
39	77.2	57.6	86.4
42	61.0	54.0	81.0

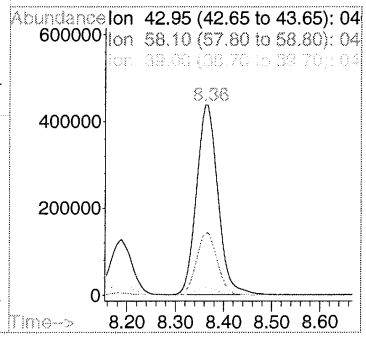


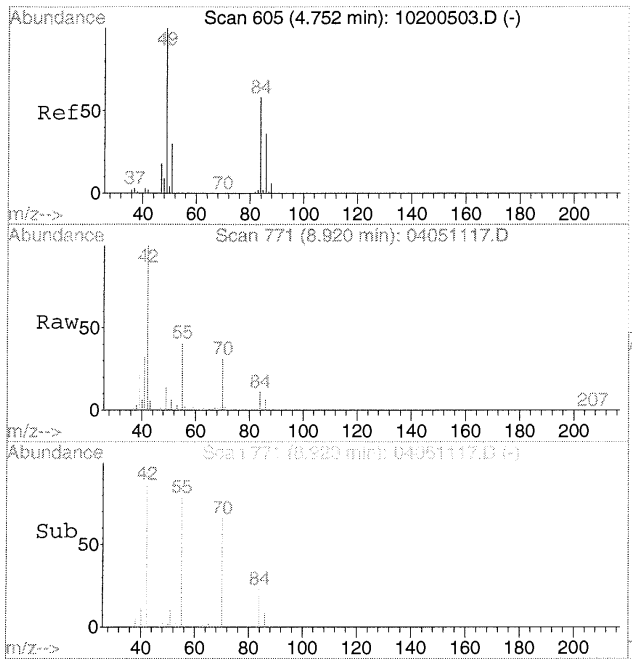


#14
Acetone
Concen: 15.40 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 43 Resp: 1356328

Ion	Ratio	Lower	Upper
43	100		
58	32.4	22.0	33.0
39	4.1	6.5	9.7#

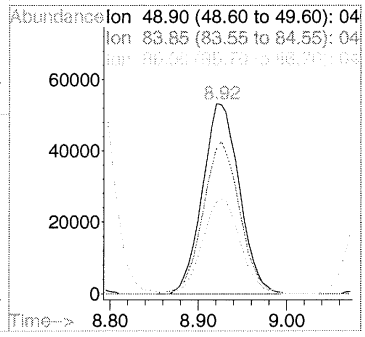


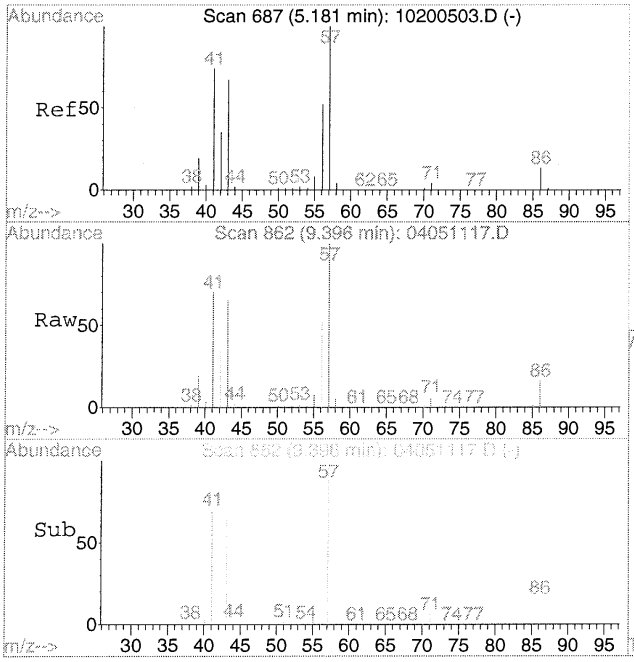


#17
Methylene chloride
Concen: 2.14 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 49 Resp: 154164

Ion	Ratio	Lower	Upper
49	100		
84	78.9	65.4	98.2
86	50.9	42.3	63.5

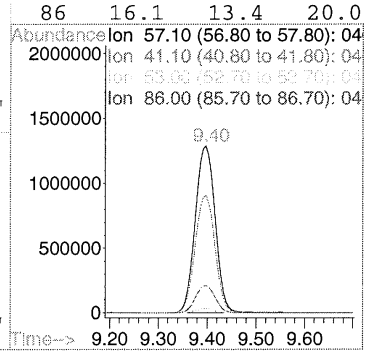


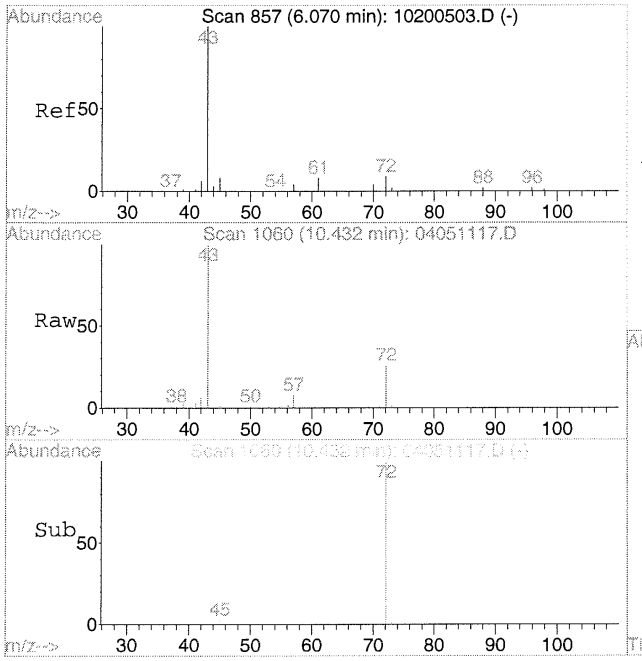


#20
n-Hexane
Concen: 34.72 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 57 Resp: 3623736

Ion	Ratio	Lower	Upper
57	100		
41	70.3	57.2	85.8
53	2.4	1.8	2.8
86	16.1	13.4	20.0

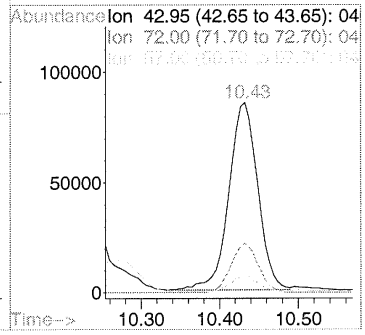


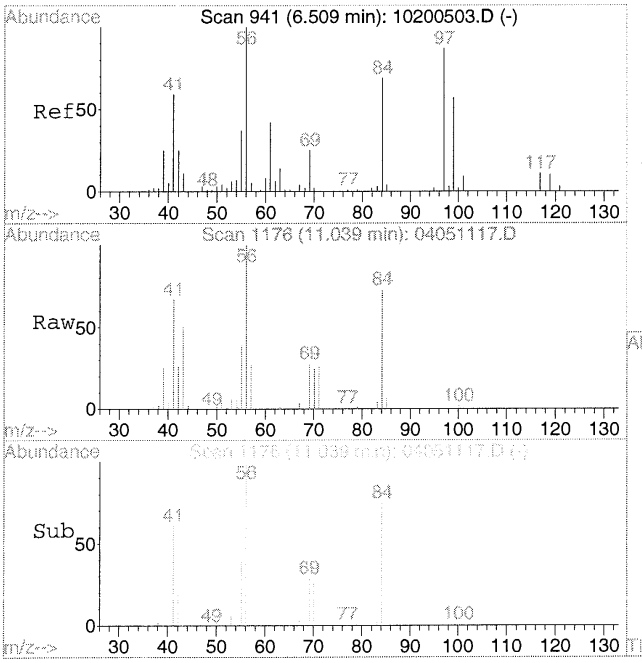


#24
2-Butanone
Concen: 2.40 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 43 Resp: 218203

Ion	Ratio	Lower	Upper
43	100		
72	25.0	23.4	35.2
57	8.9	6.9	10.3

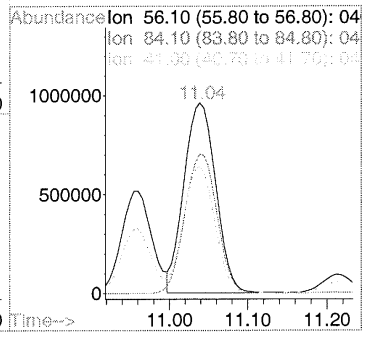


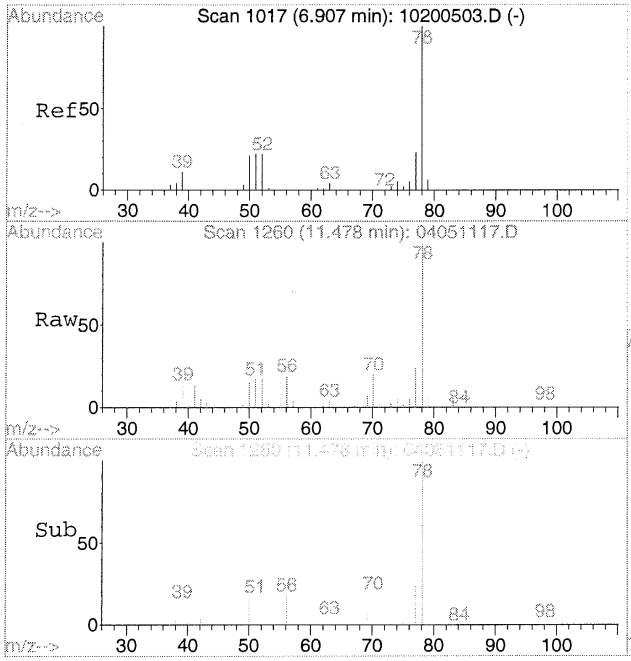


#29
Cyclohexane
Concen: 25.69 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 56 Resp: 2714544

Ion	Ratio	Lower	Upper
56	100		
84	74.9	72.4	108.6
41	65.9	43.8	65.8#

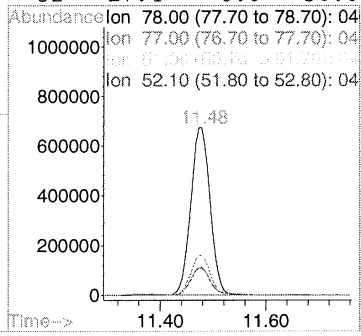


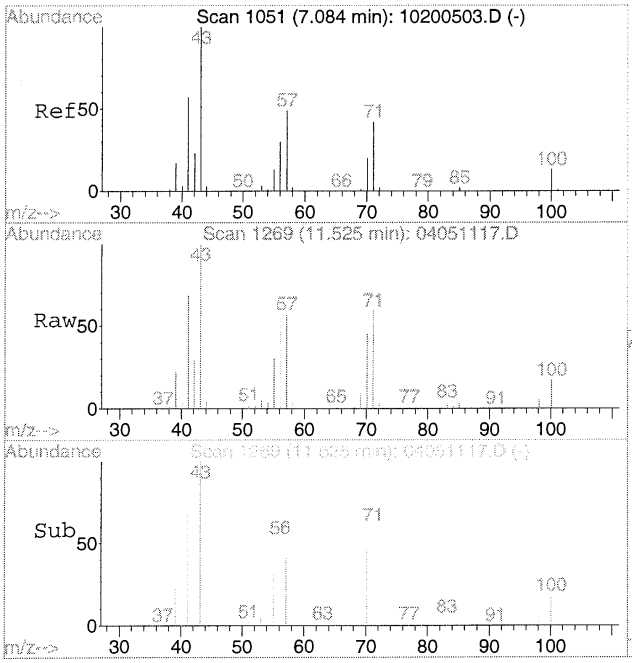


#31
Benzene
Concen: 9.67 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 78 Resp: 1708844

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	19.2	0.0	36.1
52	17.4	0.0	36.0

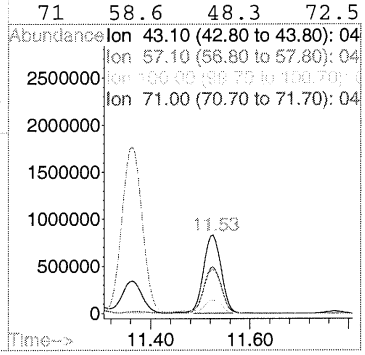


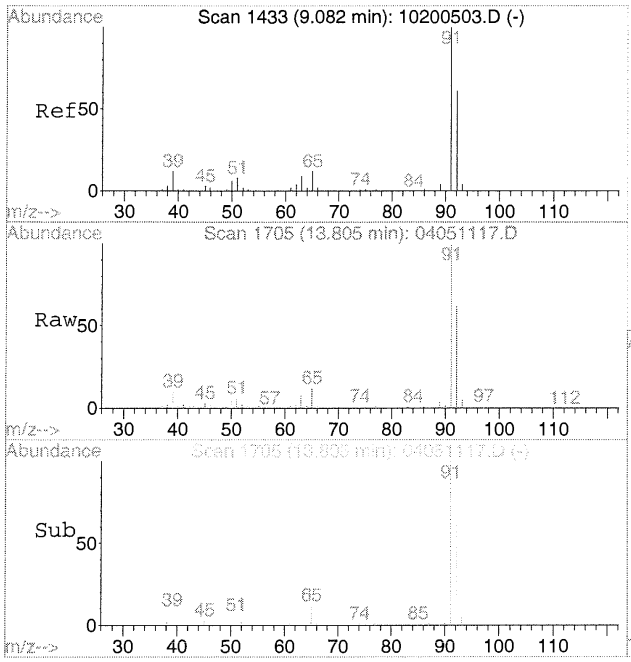


#34
Heptane
Concen: 17.02 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 43 Resp: 2072292

Ion	Ratio	Lower	Upper
43	100		
57	58.6	42.2	63.4
100	16.5	17.3	25.9#
71	58.6	48.3	72.5

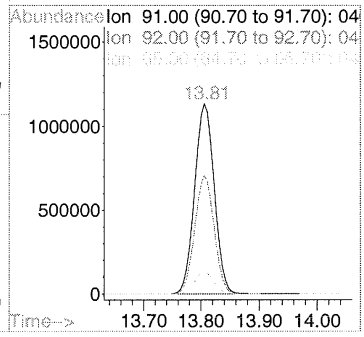


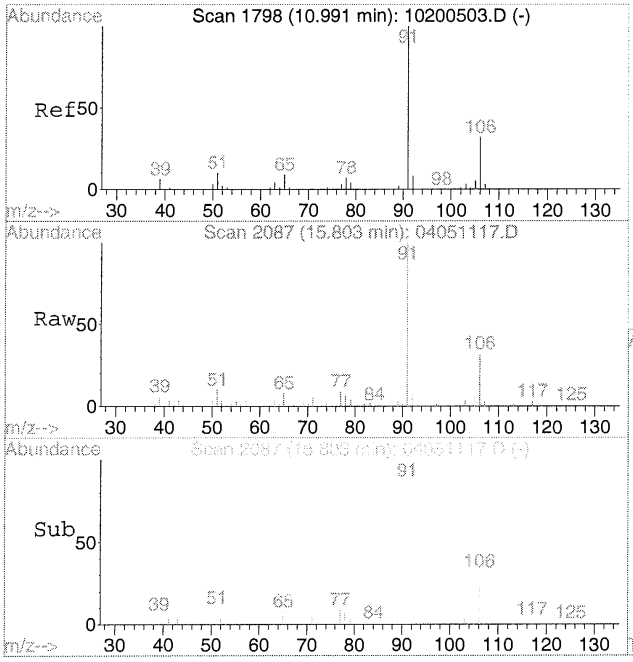


#41
Toluene
Concen: 14.25 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 91 Resp: 2708242

Ion	Ratio	Lower	Upper
91	100		
92	61.5	40.5	80.5
65	11.4	0.0	31.2

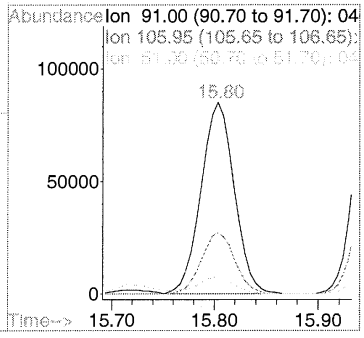


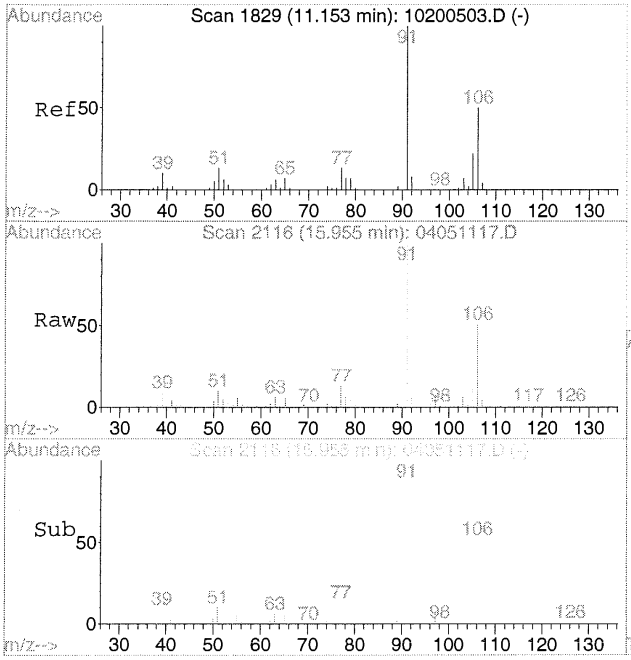


#50
Ethylbenzene
Concen: 0.84 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 91 Resp: 190928

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.0	0.0	33.1

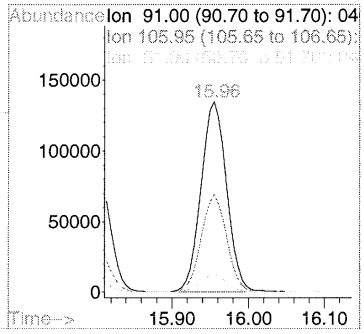


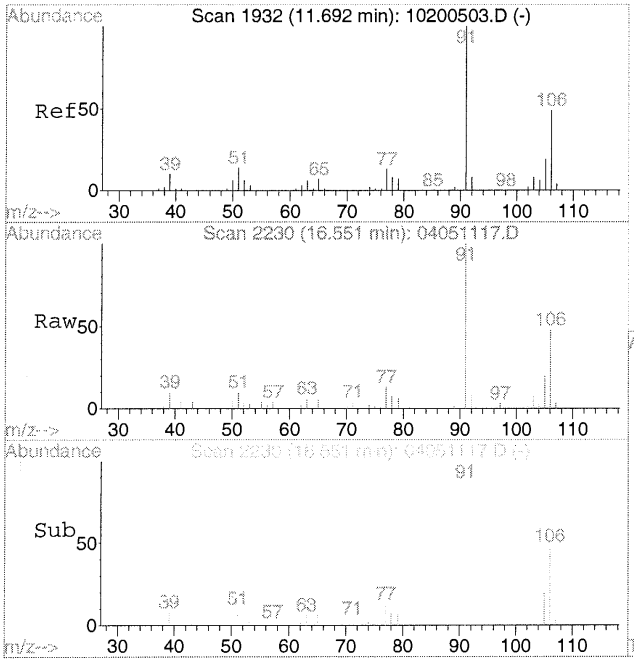


#51
m,p-Xylene
Concen: 1.80 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 91 Resp: 314961

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	9.5	0.0	29.6

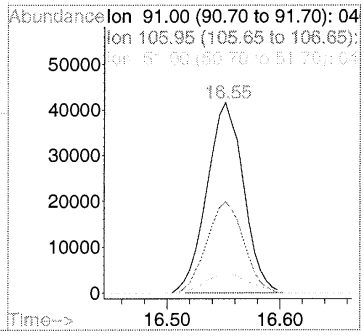




#52
o-Xylene
Concen: 0.55 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051117.D
Acq: 5 Apr 2011 8:49 pm

Tgt Ion: 91 Resp: 93609

Ion	Ratio	Lower	Upper
91	100		
106	48.3	41.0	61.6
51	12.4	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.354	61	89	129	rBV	1025216	5789016	25.50%	2.383%
2	5.678	135	151	177	rVB5	59597	276194	1.22%	0.114%
3	6.049	206	222	238	rVB2	64782	263196	1.16%	0.108%
4	6.337	258	277	292	rBV2	468476	1877736	8.27%	0.773%
5	7.195	422	441	471	rBV	4886010	18541297	81.68%	7.632%
6	7.566	492	512	538	rBV	4734230	16661562	73.40%	6.859%
7	8.188	615	631	649	rBV	605237	1971759	8.69%	0.812%
8	8.361	652	664	693	rVB	685778	2318566	10.21%	0.954%
9	8.774	724	743	761	rBV3	6092247	22700370	100.00%	9.344%
10	8.931	761	773	789	rVV	1360197	4121505	18.16%	1.697%
11	9.093	789	804	829	rVB	2959910	8652331	38.12%	3.562%
12	9.396	848	862	883	rBV	5061599	14138712	62.28%	5.820%
13	9.914	947	961	969	rBV	176106	491511	2.17%	0.202%
14	10.008	969	979	997	rVB	1541254	4204670	18.52%	1.731%
15	10.218	1005	1019	1045	rBV	3695027	10440415	45.99%	4.298%
16	10.432	1051	1060	1069	rBV	124915	291062	1.28%	0.120%
17	10.688	1098	1109	1114	rBV	95074	251108	1.11%	0.103%
18	10.767	1114	1124	1127	rVV	1457416	3472675	15.30%	1.430%
19	10.809	1128	1132	1147	rVV	2005486	4701079	20.71%	1.935%
20	10.955	1147	1160	1167	rVV	2332982	6167560	27.17%	2.539%
21	11.039	1167	1176	1198	rVV2	5240433	14831609	65.34%	6.105%
22	11.211	1198	1209	1218	rVV	524782	1438487	6.34%	0.592%
23	11.300	1218	1226	1228	rVV	255472	539114	2.37%	0.222%
24	11.363	1228	1238	1251	rVV	3997551	13136389	57.87%	5.408%
25	11.473	1251	1259	1263	rVV2	2260485	5582491	24.59%	2.298%
26	11.525	1263	1269	1298	rVB2	4498675	11882915	52.35%	4.892%
27	11.865	1323	1334	1346	rBV	2272183	5447725	24.00%	2.243%
28	12.200	1386	1398	1406	rBV	471015	1150715	5.07%	0.474%
29	12.289	1406	1415	1424	rVV	1120614	3048183	13.43%	1.255%
30	12.393	1425	1435	1457	rVV	5033687	14028158	61.80%	5.775%
31	12.576	1457	1470	1474	rVV3	342492	936598	4.13%	0.386%
32	12.623	1475	1479	1493	rVB	381913	880121	3.88%	0.362%
33	12.801	1499	1513	1527	rBV2	1416840	3729114	16.43%	1.535%
34	12.948	1527	1541	1545	rBV4	1182259	3518077	15.50%	1.448%
35	13.152	1569	1580	1598	rBV2	626425	2102061	9.26%	0.865%
36	13.345	1608	1617	1630	rVB	537800	1374391	6.05%	0.566%
37	13.575	1646	1661	1667	rBV2	914473	2468356	10.87%	1.016%
38	13.675	1673	1680	1694	rVB	1148671	2621140	11.55%	1.079%
39	13.805	1694	1705	1721	rVB	2833975	7199299	31.71%	2.964%
40	14.077	1742	1757	1770	rBV2	426901	1217835	5.36%	0.501%
41	14.203	1770	1781	1790	rBV4	169239	501145	2.21%	0.206%
42	14.287	1790	1797	1805	rVB	127976	255911	1.13%	0.105%
43	14.831	1886	1901	1907	rVV	500642	1365738	6.02%	0.562%

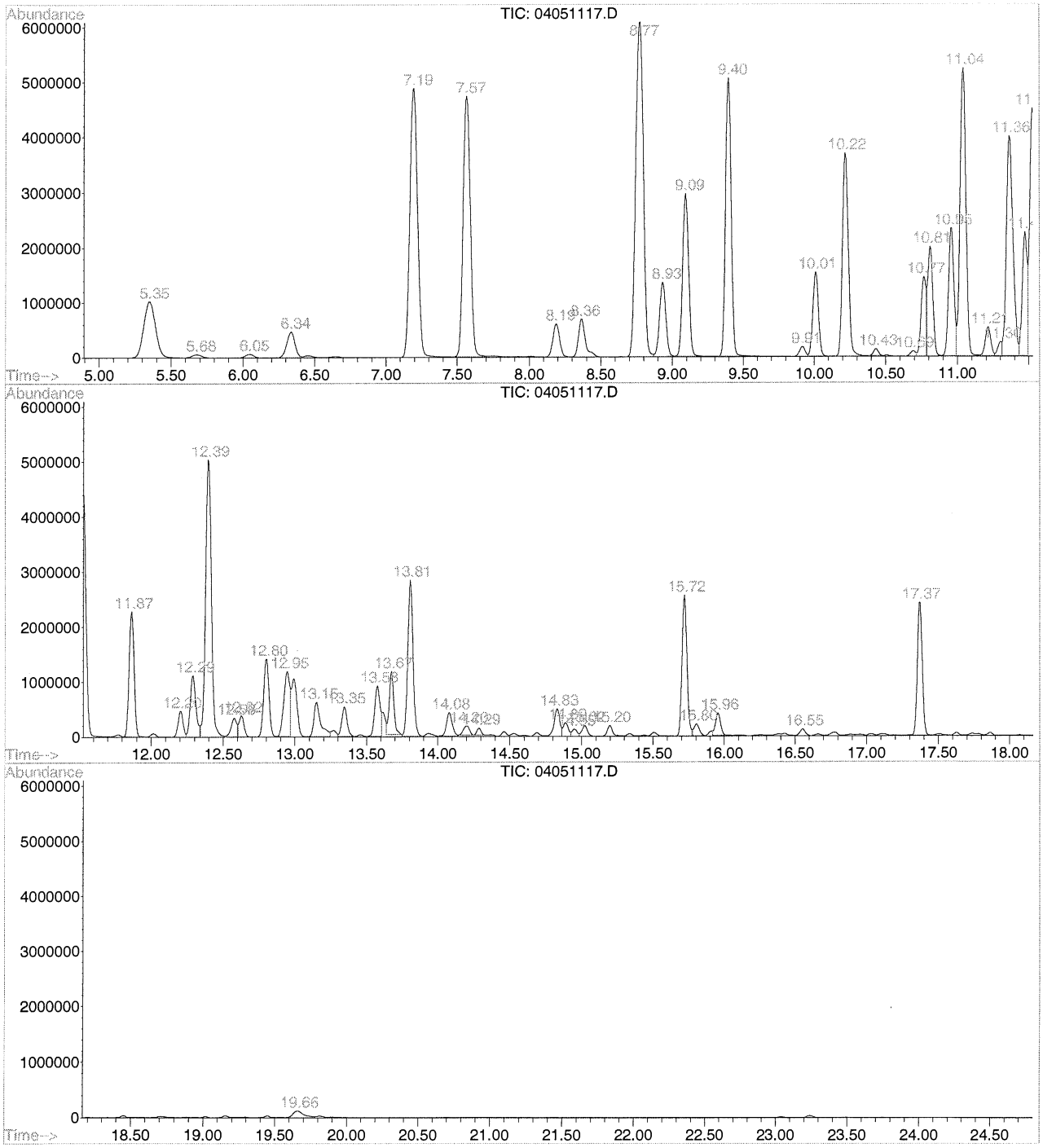
44	14.888	1907	1912	1919	rVV2	243220	622387	2.74%	0.256%
45	14.951	1919	1924	1930	rVV3	129007	316107	1.39%	0.130%
46	15.019	1930	1937	1952	rVB	192685	506257	2.23%	0.208%
47	15.197	1959	1971	1980	rBV2	197716	485350	2.14%	0.200%
48	15.720	2056	2071	2081	rBV	2558293	6205035	27.33%	2.554%
49	15.803	2082	2087	2099	rVV	215439	545601	2.40%	0.225%
50	15.955	2109	2116	2127	rVB	406599	1005959	4.43%	0.414%
51	16.551	2218	2230	2242	rVB2	123627	315566	1.39%	0.130%
52	17.367	2373	2386	2403	rVB	2413889	5734070	25.26%	2.360%
53	19.658	2808	2824	2844	rBV2	117558	604614	2.66%	0.249%

Sum of corrected areas: 242928842

04051117.D 031611V1.M Thu Apr 14 12:42:15 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051117.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 8:49 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-023B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 10
Quant File :031611V1.RES (RTE Integrator)



04051117.D 031611V1.M Thu Apr 14 12:42:16 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	20.84 ppbv	5789020	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	6.76 ppbv	1877740	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	80
2	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	64
3	Propane, 1-isocyanato-2-methyl- $$	99	C5H9NO	001873-29-6	36
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	33
5	1-Propen-2-ol, acetate $$ Isopropen	100	C5H8O2	000108-22-5	9

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	66.74 ppbv	18541300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25
5	Butane, 1-chloro-2-methyl-	106	C5H11Cl	000616-13-7	12

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane $$ n-Pentane $$ Skelly Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	59.97 ppbv	16661600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

****

Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	7.10 ppbv	1971760	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 6 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	81.71 ppbv	22700400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	70

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	31.14 ppbv	8652330	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

****

Peak Number 8 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	15.13 ppbv	4204670	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 9 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	37.58 ppbv	10440400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	22.20 ppbv	6167560	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 11 Cyclopentane, 1,1-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	5.18 ppbv	1438490	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	59
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	46
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
5	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	37

****

Peak Number 12 Hexane, 2,2-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	30.14 ppbv	13136400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	64
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Hexane, 1-(hexyloxy)-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	6.99 ppbv	3048180	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
5	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	40

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	32.19 ppbv	14028200	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	8.56 ppbv	3729110	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
2	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	52
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	8.07 ppbv	3518080	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	50

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	4.82 ppbv	2102060	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	59
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47

****

Peak Number 18 Hexane, 2,2,5-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	3.15 ppbv	1374390	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	78
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72

Data File : C:\HPCHEM\1\DATA\040511\04051117.D Vial: 10
Acq On : 5 Apr 2011 8:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	5.66 ppbv	2468360	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	93
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	90

****

Peak Number 20 Octane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	6.01 ppbv	2621140	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 8:49 pm
Data File: C:\HPCHEM\1\DATA\040511\04051117.D
Name: 1103389-023B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	20.8	ppbv	5789020	ISTD01	10.77	3472680	12.5
Butane	6.34	6.8	ppbv	1877740	ISTD01	10.77	3472680	12.5
Butane, 2-methyl-	7.19	66.7	ppbv	18541300	ISTD01	10.77	3472680	12.5
Pentane $$ n-Pentane	7.57	60.0	ppbv	16661600	ISTD01	10.77	3472680	12.5
Butane, 2,2-dimethyl	8.19	7.1	ppbv	1971760	ISTD01	10.77	3472680	12.5
Pentane, 2-methyl-	8.77	81.7	ppbv	22700400	ISTD01	10.77	3472680	12.5
Pentane, 3-methyl-	9.09	31.1	ppbv	8652330	ISTD01	10.77	3472680	12.5
Pentane, 2,4-dimethy	10.01	15.1	ppbv	4204670	ISTD01	10.77	3472680	12.5
Cyclopentane, methyl	10.22	37.6	ppbv	10440400	ISTD01	10.77	3472680	12.5
Pentane, 2,3-dimethy	10.96	22.2	ppbv	6167560	ISTD01	10.77	3472680	12.5
Cyclopentane, 1,1-di	11.21	5.2	ppbv	1438490	ISTD01	10.77	3472680	12.5
Hexane, 2,2-dimethyl	11.36	30.1	ppbv	13136400	ISTD02	11.87	5447730	12.5
Hexane, 1-(hexyloxy)	12.29	7.0	ppbv	3048180	ISTD02	11.87	5447730	12.5
Cyclohexane, methyl-	12.39	32.2	ppbv	14028200	ISTD02	11.87	5447730	12.5
Pentane, 2,3,4-trime	12.80	8.6	ppbv	3729110	ISTD02	11.87	5447730	12.5
Heptane, 2-methyl-	12.95	8.1	ppbv	3518080	ISTD02	11.87	5447730	12.5
Heptane, 3-methyl-	13.15	4.8	ppbv	2102060	ISTD02	11.87	5447730	12.5
Hexane, 2,2,5-trimet	13.35	3.2	ppbv	1374390	ISTD02	11.87	5447730	12.5
Cyclohexane, 1,3-dim	13.58	5.7	ppbv	2468360	ISTD02	11.87	5447730	12.5
Octane	13.67	6.0	ppbv	2621140	ISTD02	11.87	5447730	12.5

04051117.D 031611V1.M Thu Apr 14 12:42:16 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:53 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

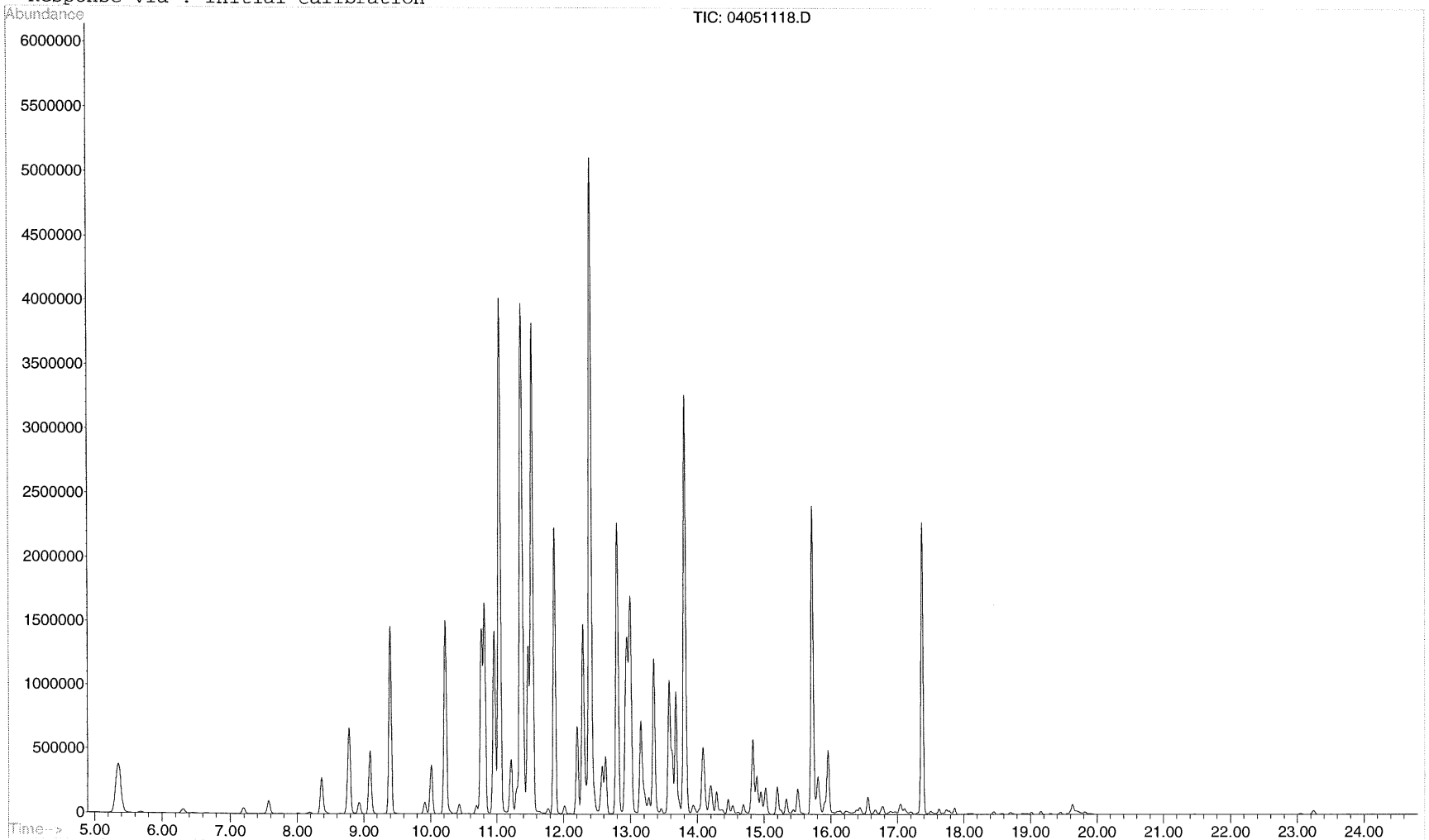
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	729032	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2478538	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1852051	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1133973	12.22	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.76%				
Target Compounds							Qvalue
14) Acetone	8.37	43	535608	5.96	ppbv	#	91
20) n-Hexane	9.40	57	974854	9.16	ppbv		99
24) 2-Butanone	10.43	43	126261	1.36	ppbv		92
29) Cyclohexane	11.04	56	1885684	17.49	ppbv	#	78
31) Benzene	11.47	78	655673	3.64	ppbv		95
34) Heptane	11.52	43	1647153	13.76	ppbv	#	93
41) Toluene	13.81	91	3136989	16.79	ppbv		99
50) Ethylbenzene	15.80	91	227121	1.05	ppbv		94
51) m,p-Xylene	15.96	91	371632	2.23	ppbv		94
52) o-Xylene	16.55	91	106676	0.66	ppbv	#	87

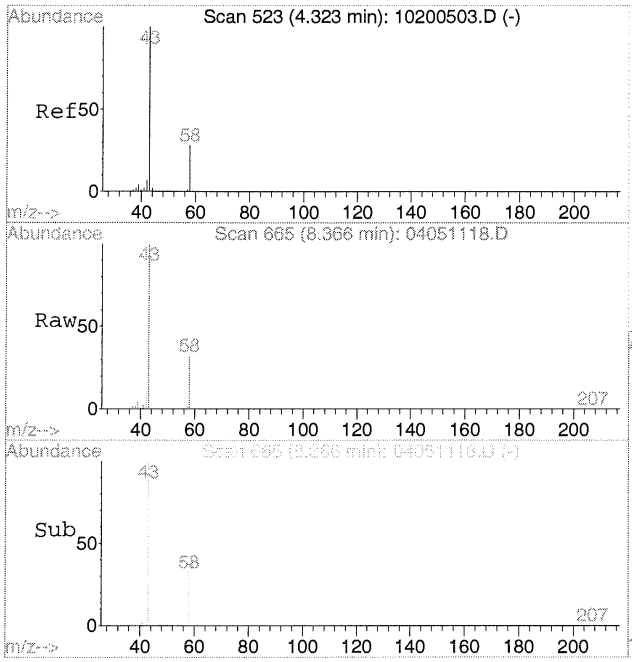
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:53 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

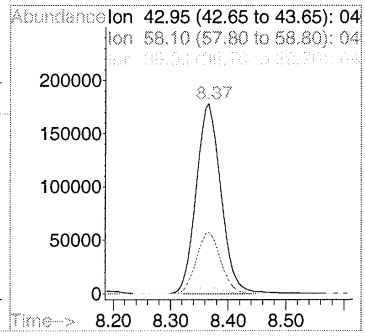


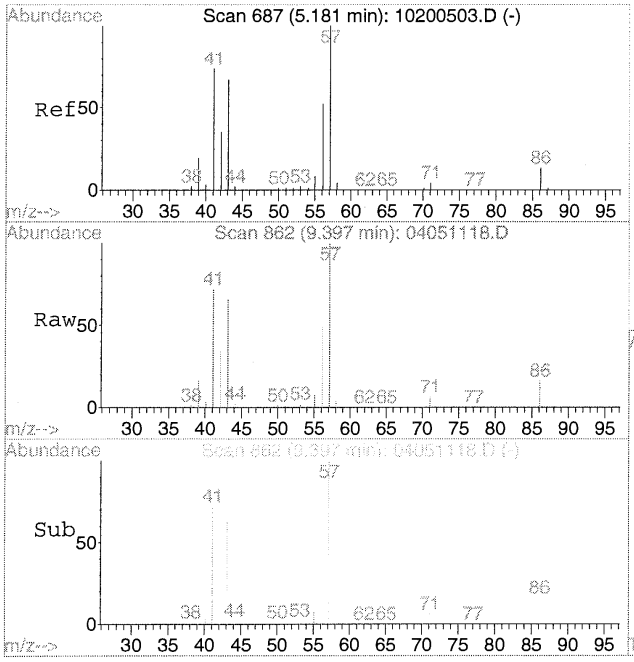


#14
Acetone
Concen: 5.96 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 43 Resp: 535608

Ion	Ratio	Lower	Upper
43	100		
58	31.8	22.0	33.0
39	4.2	6.5	9.7#

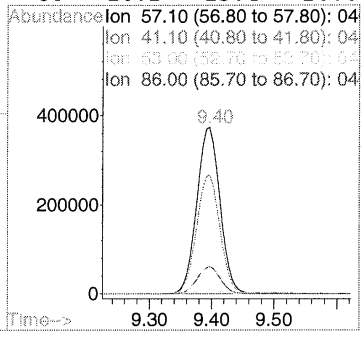


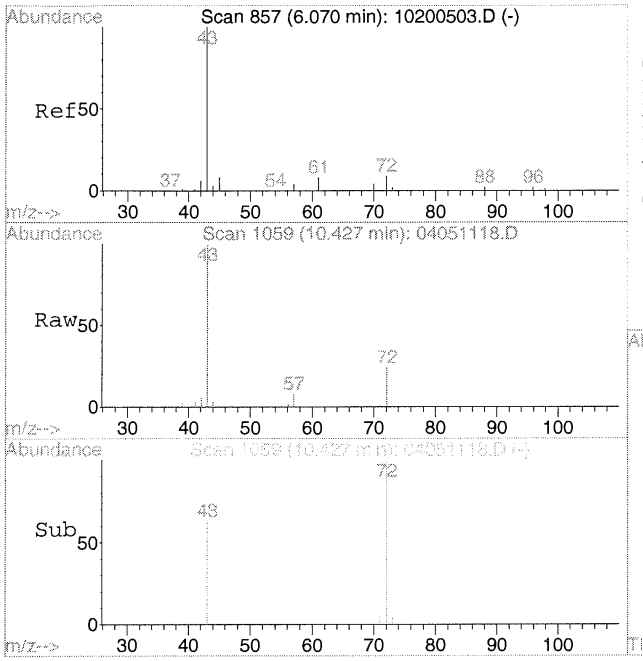


#20
n-Hexane
Concen: 9.16 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 57 Resp: 974854

Ion	Ratio	Lower	Upper
57	100		
41	72.1	57.2	85.8
53	2.3	1.8	2.8
86	16.2	13.4	20.0

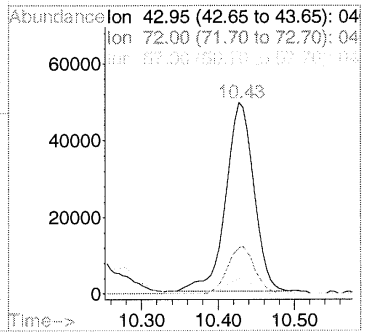


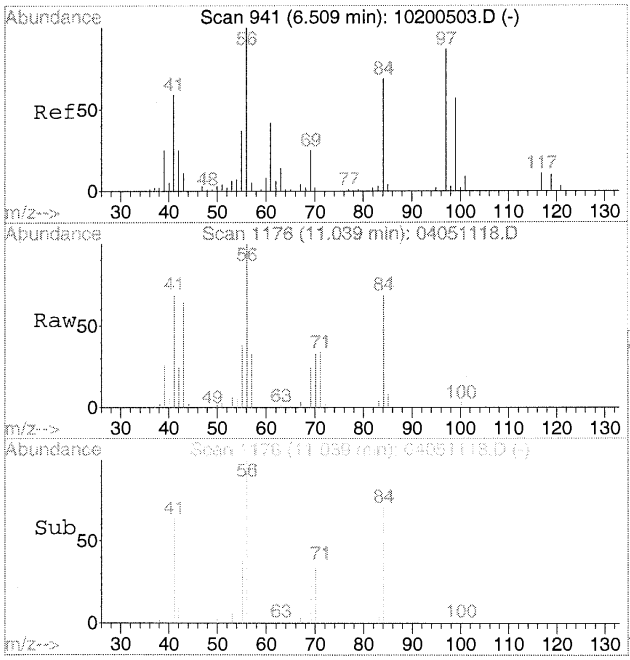


#24
2-Butanone
Concen: 1.36 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 43 Resp: 126261

Ion	Ratio	Lower	Upper
43	100		
72	24.1	23.4	35.2
57	8.0	6.9	10.3

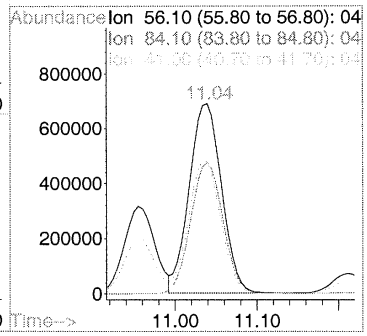


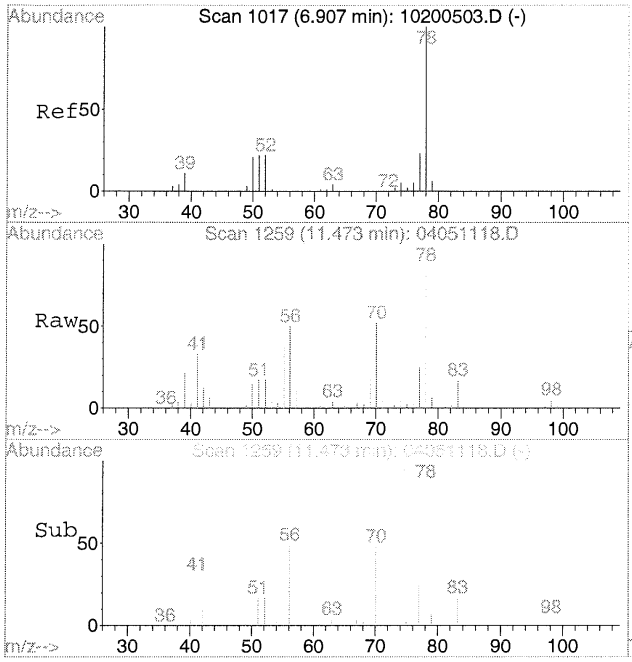


#29
Cyclohexane
Concen: 17.49 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 56 Resp: 1885684

Ion	Ratio	Lower	Upper
56	100		
84	69.3	72.4	108.6#
41	69.8	43.8	65.8#

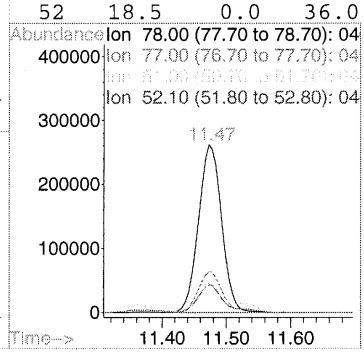


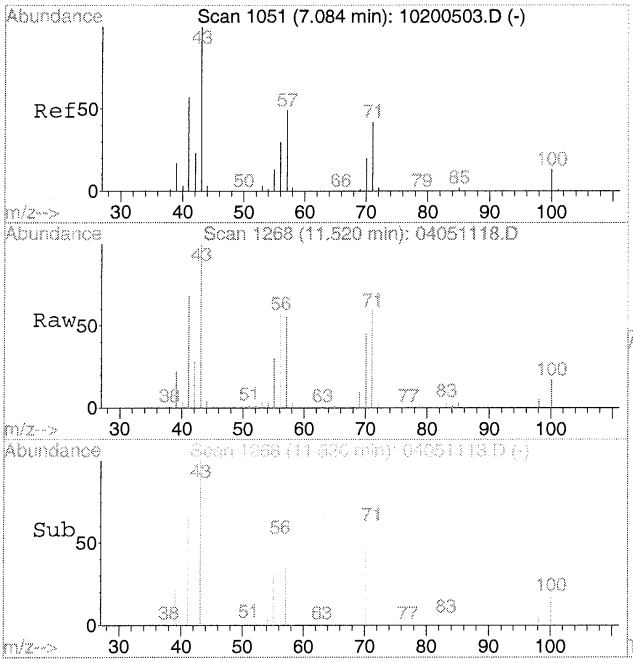


#31
Benzene
Concen: 3.64 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 78 Resp: 655673

Ion	Ratio	Lower	Upper
78	100		
77	26.3	3.7	43.7
51	17.0	0.0	36.1
52	18.5	0.0	36.0

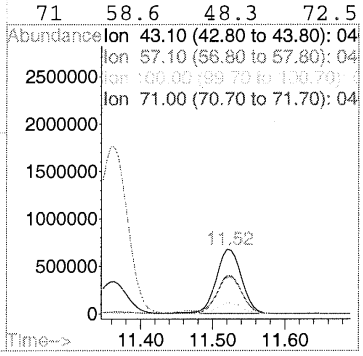


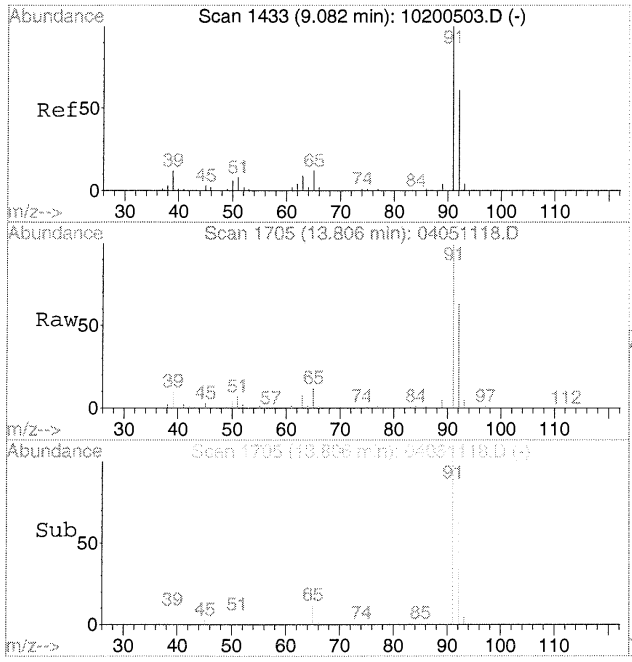


#34
Heptane
Concen: 13.76 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 43 Resp: 1647153

Ion	Ratio	Lower	Upper
43	100		
57	60.5	42.2	63.4
100	16.8	17.3	25.9#
71	58.6	48.3	72.5

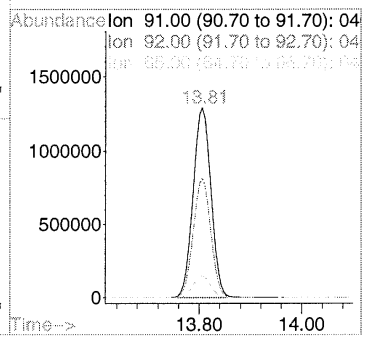


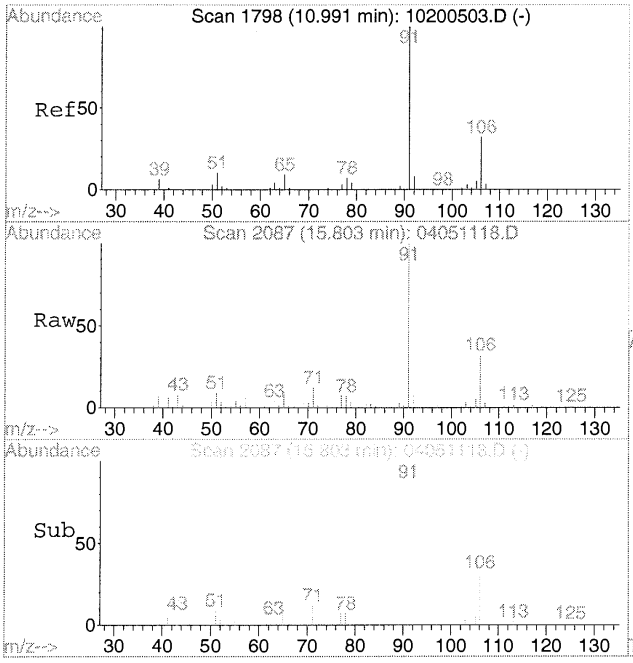


#41
Toluene
Concen: 16.79 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 91 Resp: 3136989

Ion	Ratio	Lower	Upper
91	100		
92	61.6	40.5	80.5
65	11.4	0.0	31.2

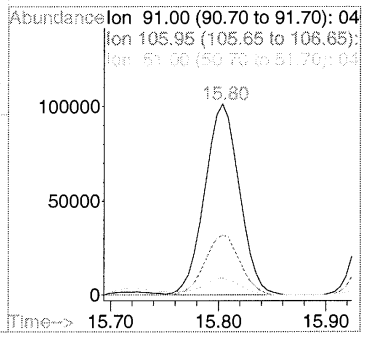


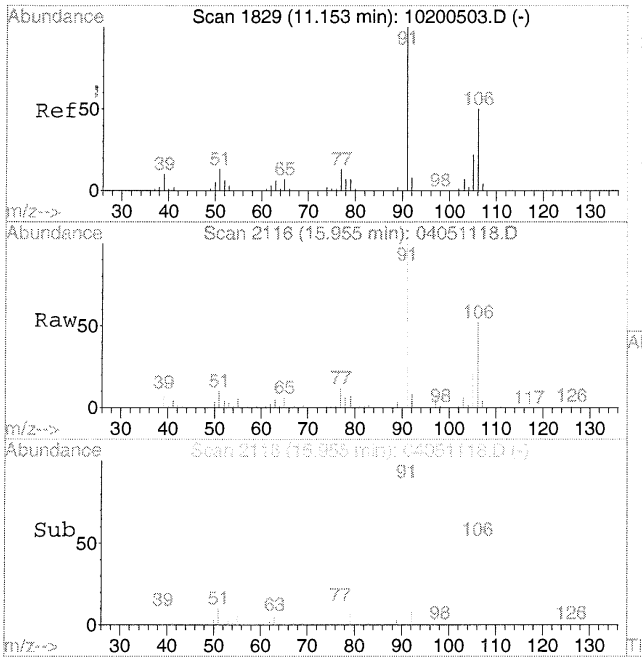


#50
Ethylbenzene
Concen: 1.05 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 91 Resp: 227121

Ion	Ratio	Lower	Upper
91	100		
106	31.8	14.9	54.9
51	9.4	0.0	33.1

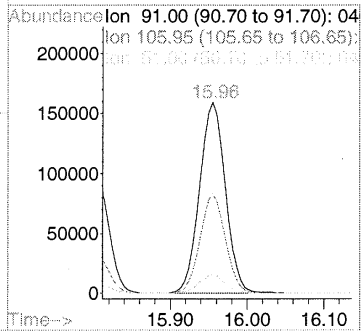


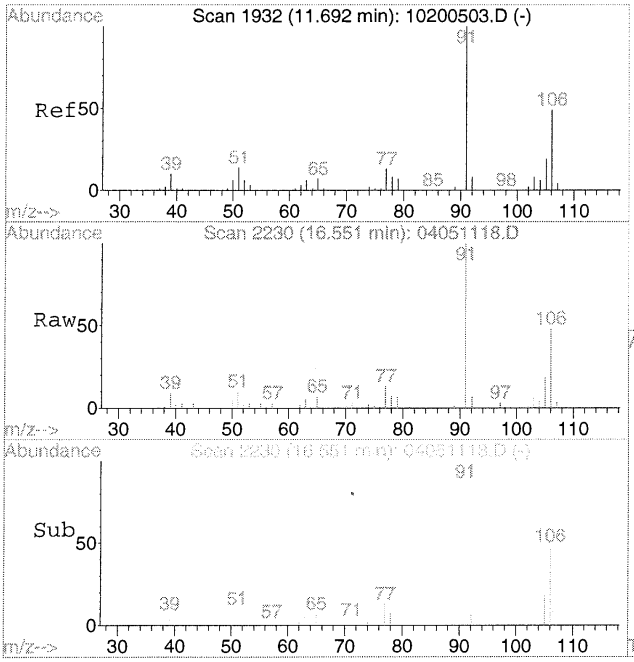


#51
m,p-Xylene
Concen: 2.23 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 91 Resp: 371632

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.6	75.6
51	9.6	0.0	29.6

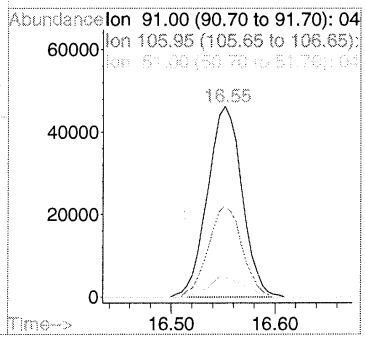




#52
o-Xylene
Concen: 0.66 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051118.D
Acq: 5 Apr 2011 9:34 pm

Tgt Ion: 91 Resp: 106676

Ion	Ratio	Lower	Upper
91	100		
106	46.8	41.0	61.6
51	11.3	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.348	61	88	128	rBV	382069	2132173	14.74%	1.448%
2	7.189	428	440	456	rBV	45202	151125	1.04%	0.103%
3	7.571	500	513	528	rVB	103778	325437	2.25%	0.221%
4	8.366	652	665	687	rBV	279190	855629	5.91%	0.581%
5	8.779	728	744	762	rBV	663411	1995581	13.80%	1.355%
6	8.931	762	773	786	rVB2	90456	264455	1.83%	0.180%
7	9.093	791	804	824	rBV	487404	1390511	9.61%	0.944%
8	9.397	847	862	882	rBV	1464046	3817027	26.39%	2.592%
9	9.914	951	961	969	rBV	92132	249686	1.73%	0.170%
10	10.008	969	979	997	rVB	376219	1013493	7.01%	0.688%
11	10.218	1006	1019	1043	rBV	1510326	4144867	28.65%	2.814%
12	10.427	1050	1059	1069	rVB	74353	185886	1.29%	0.126%
13	10.688	1098	1109	1114	rBV	65901	176594	1.22%	0.120%
14	10.767	1114	1124	1127	rVV	1442228	3504767	24.23%	2.380%
15	10.809	1128	1132	1146	rVB	1640715	3676702	25.42%	2.497%
16	10.955	1148	1160	1167	rBV	1419967	3749537	25.92%	2.546%
17	11.034	1167	1175	1196	rVB2	4009116	10824767	74.83%	7.350%
18	11.211	1197	1209	1218	rBV	408466	1095011	7.57%	0.744%
19	11.363	1227	1238	1251	rVV	3817390	11791795	81.52%	8.007%
20	11.473	1251	1259	1262	rVV2	1214697	2808306	19.41%	1.907%
21	11.525	1262	1269	1286	rVB2	3806520	9989784	69.06%	6.783%
22	11.860	1323	1333	1346	rBV	2227283	5356352	37.03%	3.637%
23	12.017	1353	1363	1374	rVB	62490	156006	1.08%	0.106%
24	12.200	1387	1398	1406	rBV	674756	1648070	11.39%	1.119%
25	12.289	1406	1415	1424	rVV	1481904	3974358	27.47%	2.699%
26	12.393	1425	1435	1458	rVV	5114369	14465664	100.00%	9.822%
27	12.576	1458	1470	1474	rVV4	367468	1021933	7.06%	0.694%
28	12.624	1474	1479	1492	rVB	442530	1082631	7.48%	0.735%
29	12.796	1499	1512	1526	rBV2	2269592	5995418	41.45%	4.071%
30	12.943	1526	1540	1544	rBV3	1361517	4184133	28.92%	2.841%
31	12.990	1545	1549	1569	rVB2	1691403	4337923	29.99%	2.945%
32	13.152	1569	1580	1597	rBV2	710435	2330013	16.11%	1.582%
33	13.345	1608	1617	1632	rVB	1193715	3003883	20.77%	2.040%
34	13.575	1646	1661	1667	rBV2	1031619	2791570	19.30%	1.896%
35	13.675	1674	1680	1694	rVB	907568	2047863	14.16%	1.391%
36	13.806	1694	1705	1721	rVB	3254197	8380570	57.93%	5.690%
37	13.936	1721	1730	1741	rBV3	62216	183496	1.27%	0.125%
38	14.083	1741	1758	1770	rBV3	500154	1607254	11.11%	1.091%
39	14.198	1770	1780	1790	rVB4	196200	597600	4.13%	0.406%
40	14.287	1790	1797	1805	rBV	149991	305909	2.11%	0.208%
41	14.459	1821	1830	1837	rBV	115407	267237	1.85%	0.181%
42	14.527	1837	1843	1851	rVB3	62922	152199	1.05%	0.103%
43	14.684	1865	1873	1887	rBV3	73213	206089	1.42%	0.140%

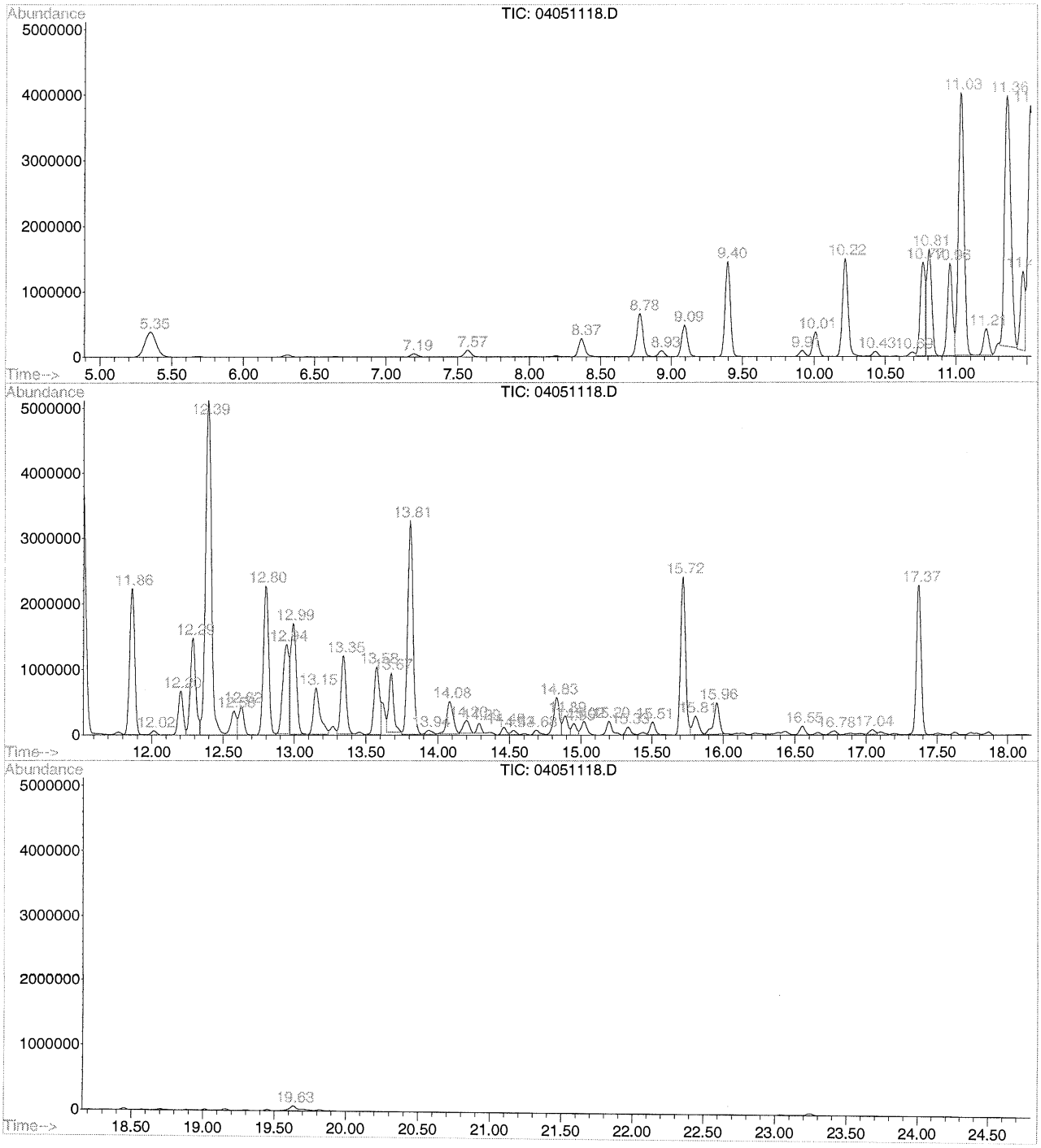
44	14.831	1887	1901	1907	rVV	574802	1586234	10.97%	1.077%
45	14.888	1907	1912	1919	rVV	293287	758060	5.24%	0.515%
46	14.951	1919	1924	1930	rVV2	175886	431545	2.98%	0.293%
47	15.019	1930	1937	1954	rVB3	208272	592745	4.10%	0.402%
48	15.197	1959	1971	1988	rBV	214648	602127	4.16%	0.409%
49	15.333	1988	1997	2009	rBV2	117331	284264	1.97%	0.193%
50	15.505	2022	2030	2041	rVB	189587	467319	3.23%	0.317%
51	15.720	2057	2071	2081	rBV	2405843	5842489	40.39%	3.967%
52	15.809	2081	2088	2100	rVV2	281329	836550	5.78%	0.568%
53	15.955	2100	2116	2127	rVB2	478835	1345907	9.30%	0.914%
54	16.551	2220	2230	2241	rVB	133587	338401	2.34%	0.230%
55	16.776	2261	2273	2283	rVB5	58815	178091	1.23%	0.121%
56	17.043	2315	2324	2331	rBV3	70826	193238	1.34%	0.131%
57	17.373	2369	2387	2399	rBV	2273633	5353196	37.01%	3.635%
58	19.632	2804	2819	2827	rBV2	70161	223790	1.55%	0.152%

Sum of corrected areas: 147273260

04051118.D 031611V1.M Thu Apr 14 12:42:27 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051118.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 9:34 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-024B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 11
Quant File :031611V1.RES (RTE Integrator)



04051118.D 031611V1.M Thu Apr 14 12:42:28 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	7.60 ppbv	2132170	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- $$ Isohexan Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.78	7.12 ppbv	1995580	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	4.96 ppbv	1390510	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	3.61 ppbv	1013490	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

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Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	14.78 ppbv	4144870	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	58

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	13.37 ppbv	3749540	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, 1,1-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	3.91 ppbv	1095010	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	59
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	46
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
5	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	38

****

Peak Number 8 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	27.52 ppbv	11791800	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	3.85 ppbv	1648070	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	93
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	52
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	9.27 ppbv	3974360	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
3	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	45
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43
5	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	42

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	33.76 ppbv	14465700	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	13.99 ppbv	5995420	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	9.76 ppbv	4184130	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	70
2	Heptane, 4-methyl-	114	C8H18	000589-53-7	64
3	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	64
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
5	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	53

****

Peak Number 14 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	10.12 ppbv	4337920	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
3	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	38
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	36
5	Hexane, 2,3,4-trimethyl- $$ 2,3,4-T	128	C9H20	000921-47-1	33

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	5.44 ppbv	2330010	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	81
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	58
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47
5	Pentane, 2,2-dimethyl- $$ 2,2-Dimet	100	C7H16	000590-35-2	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	7.01 ppbv	3003880	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	6.51 ppbv	2791570	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91

****

Peak Number 18 Octane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	4.78 ppbv	2047860	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83

Data File : C:\HPCHEM\1\DATA\040511\04051118.D Vial: 11
Acq On : 5 Apr 2011 9:34 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	3.44 ppbv	1607250	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	93
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	81
5	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	81

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	3.39 ppbv	1586230	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	86
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	72

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 9:34 pm
Data File: C:\HPCHEM\1\DATA\040511\04051118.D
Name: 1103389-024B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	7.6	ppbv	2132170	ISTD01	10.77	3504770	12.5
Pentane, 2-methyl- $	8.78	7.1	ppbv	1995580	ISTD01	10.77	3504770	12.5
Pentane, 3-methyl-	9.09	5.0	ppbv	1390510	ISTD01	10.77	3504770	12.5
Pentane, 2,4-dimethy	10.01	3.6	ppbv	1013490	ISTD01	10.77	3504770	12.5
Cyclopentane, methyl	10.22	14.8	ppbv	4144870	ISTD01	10.77	3504770	12.5
Pentane, 2,3-dimethy	10.96	13.4	ppbv	3749540	ISTD01	10.77	3504770	12.5
Cyclopentane, 1,1-di	11.21	3.9	ppbv	1095010	ISTD01	10.77	3504770	12.5
Butane, 2,2,3,3-tetr	11.36	27.5	ppbv	11791800	ISTD02	11.87	5356350	12.5
Hexane, 2,5-dimethyl	12.20	3.8	ppbv	1648070	ISTD02	11.87	5356350	12.5
Hexane, 2,4-dimethyl	12.29	9.3	ppbv	3974360	ISTD02	11.87	5356350	12.5
Cyclohexane, methyl-	12.39	33.8	ppbv	14465700	ISTD02	11.87	5356350	12.5
Pentane, 2,3,4-trime	12.80	14.0	ppbv	5995420	ISTD02	11.87	5356350	12.5
Heptane, 2-methyl-	12.94	9.8	ppbv	4184130	ISTD02	11.87	5356350	12.5
Decane, 3,3,4-trimet	12.99	10.1	ppbv	4337920	ISTD02	11.87	5356350	12.5
Heptane, 3-methyl-	13.15	5.4	ppbv	2330010	ISTD02	11.87	5356350	12.5
Hexane, 2,2,5-trimet	13.35	7.0	ppbv	3003880	ISTD02	11.87	5356350	12.5
Cyclohexane, 1,3-dim	13.58	6.5	ppbv	2791570	ISTD02	11.87	5356350	12.5
Octane	13.67	4.8	ppbv	2047860	ISTD02	11.87	5356350	12.5
Cyclohexane, 1,2-dim	14.08	3.4	ppbv	1607250	ISTD03	15.72	5842490	12.5
Cyclohexane, ethyl-	14.83	3.4	ppbv	1586230	ISTD03	15.72	5842490	12.5

04051118.D 031611V1.M Thu Apr 14 12:42:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:54 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	708224	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2353141	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1883452	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1170901	12.40	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.20%				
Target Compounds							Qvalue
11) Ethanol*	7.75	45	13157	1.12	ppbv	#	80
14) Acetone*	8.36	43	1658966	19.01	ppbv	#	91
17) Methylene chloride*	8.93	49	59135	0.83	ppbv		98
20) n-Hexane	9.39	57	3928782	37.99	ppbv		99
24) 2-Butanone*	10.43	43	380722	4.23	ppbv		92
29) Cyclohexane	11.04	56	4157836	39.71	ppbv	#	82
31) Benzene*	11.48	78	2221845	12.69	ppbv		97
34) Heptane	11.52	43	3139036	27.62	ppbv	#	94
41) Toluene	13.81	91	5276858	29.75	ppbv		96
50) Ethylbenzene*	15.80	91	256116	1.17	ppbv		94
51) m,p-Xylene*	15.95	91	389970	2.30	ppbv		94
52) o-Xylene*	16.55	91	104395	0.63	ppbv	#	87

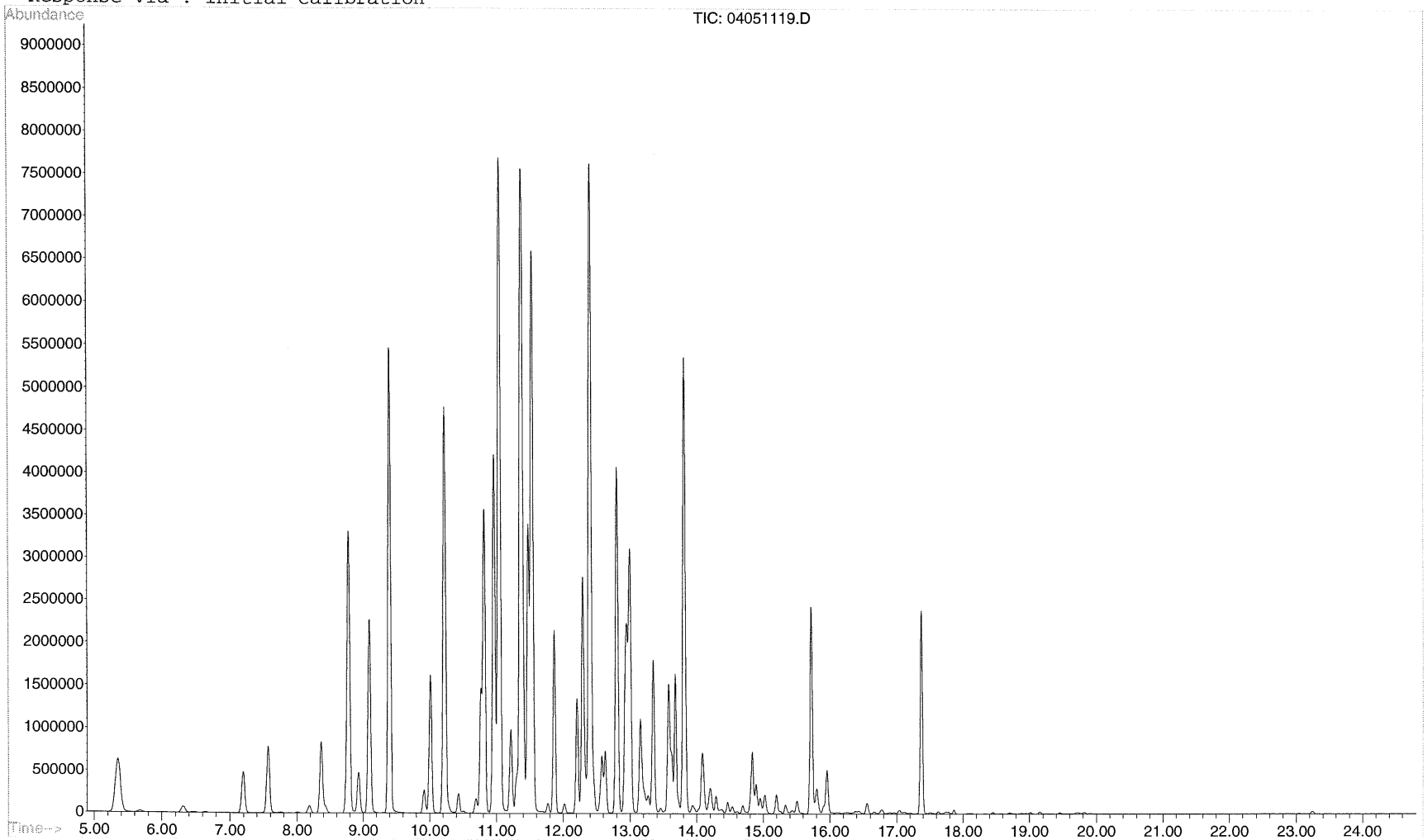
*- reported only 4/15/11 AP

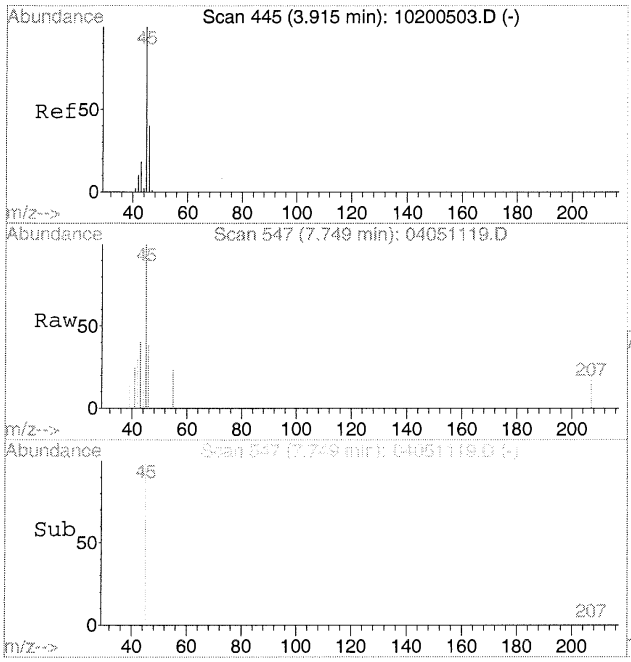
(#) = qualifier out of range (m) = manual integration
04051119.D 031611V1.M Thu Apr 14 12:42:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:54 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

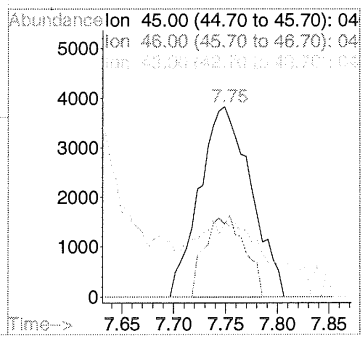


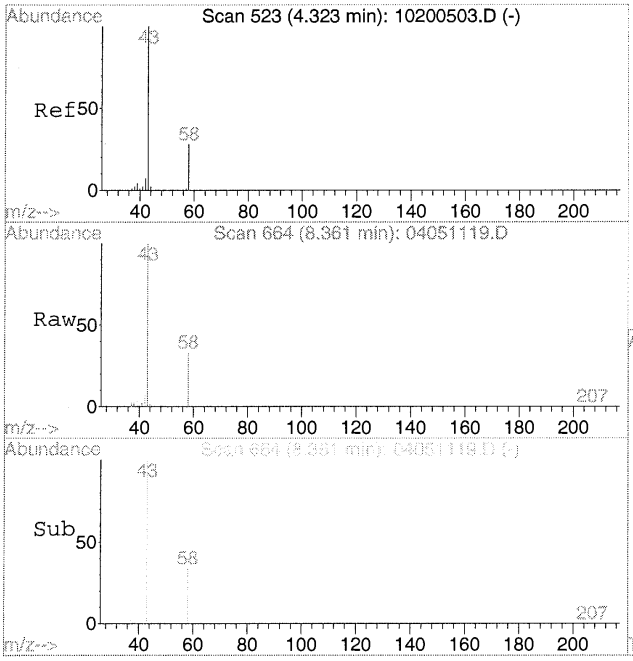


#11
Ethanol
Concen: 1.12 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 45 Resp: 13157

Ion	Ratio	Lower	Upper
45	100		
46	32.7	30.2	45.4
43	0.0	15.8	23.6#

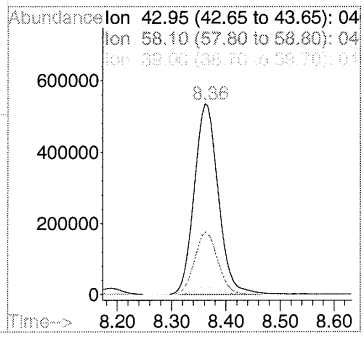


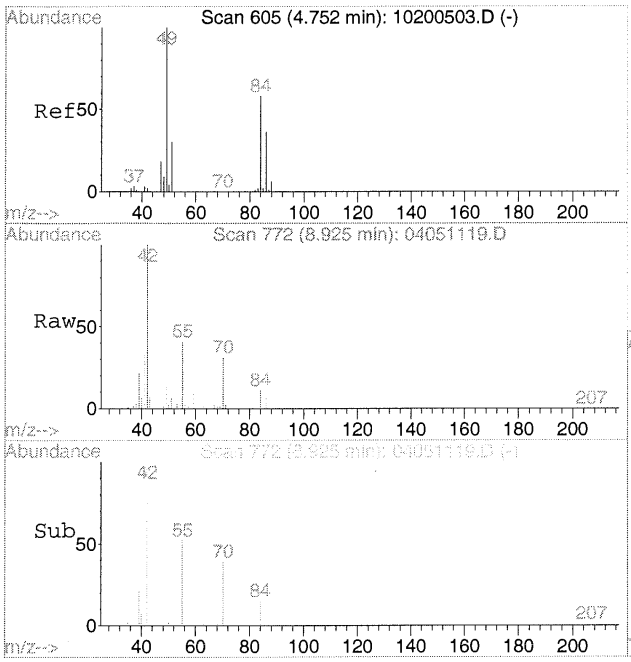


#14
Acetone
Concen: 19.01 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 43 Resp: 1658966

Ion	Ratio	Lower	Upper
43	100		
58	32.1	22.0	33.0
39	4.4	6.5	9.7#

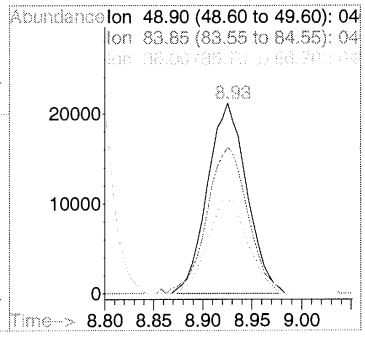


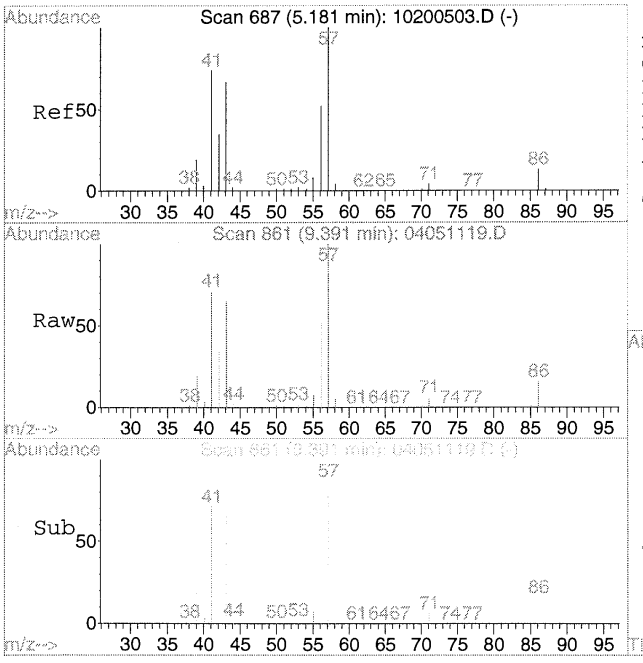


#17
Methylene chloride
Concen: 0.83 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 49 Resp: 59135

Ion	Ratio	Lower	Upper
49	100		
84	79.9	65.4	98.2
86	50.8	42.3	63.5

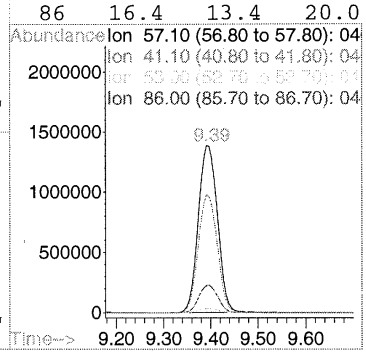


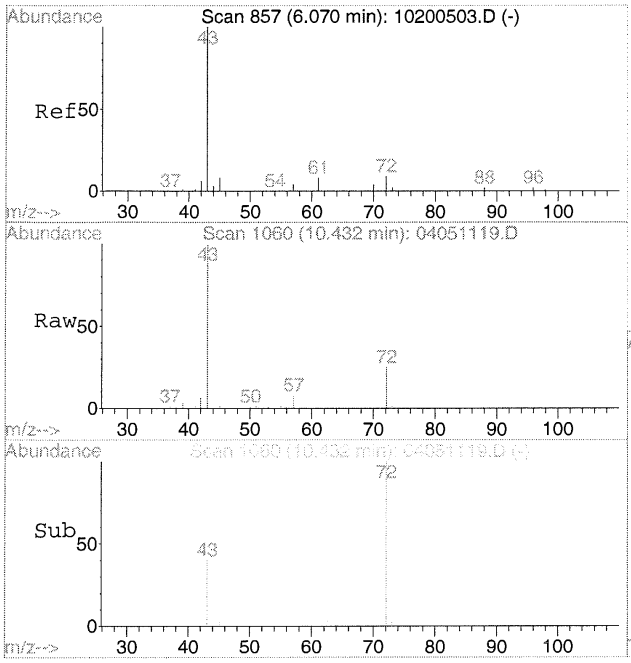


#20
n-Hexane
Concen: 37.99 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 57 Resp: 3928782

Ion	Ratio	Lower	Upper
57	100		
41	70.4	57.2	85.8
53	2.4	1.8	2.8
86	16.4	13.4	20.0

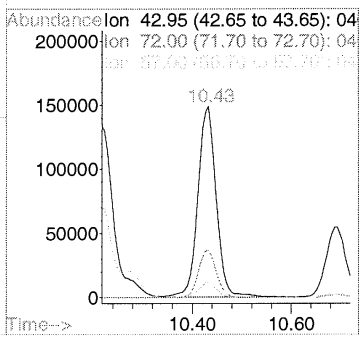


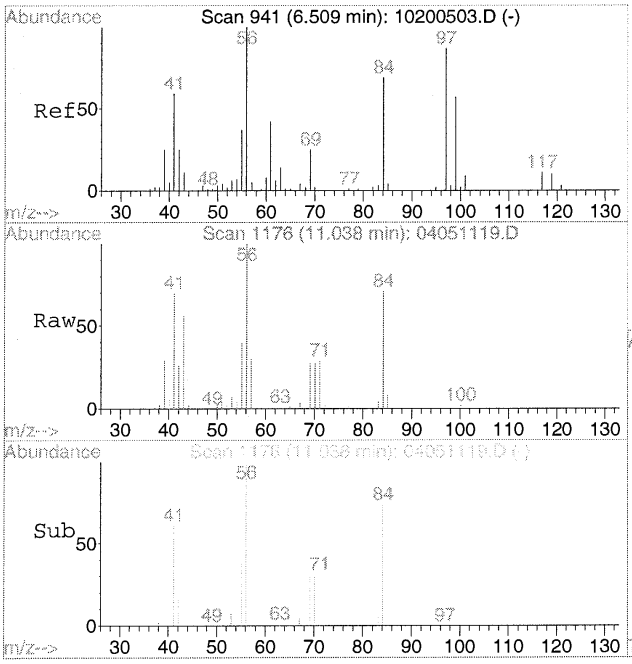


#24
2-Butanone
Concen: 4.23 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 43 Resp: 380722

Ion	Ratio	Lower	Upper
43	100		
72	24.4	23.4	35.2
57	7.9	6.9	10.3

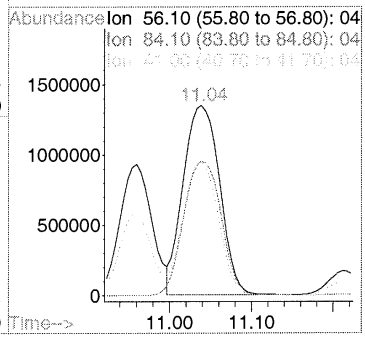


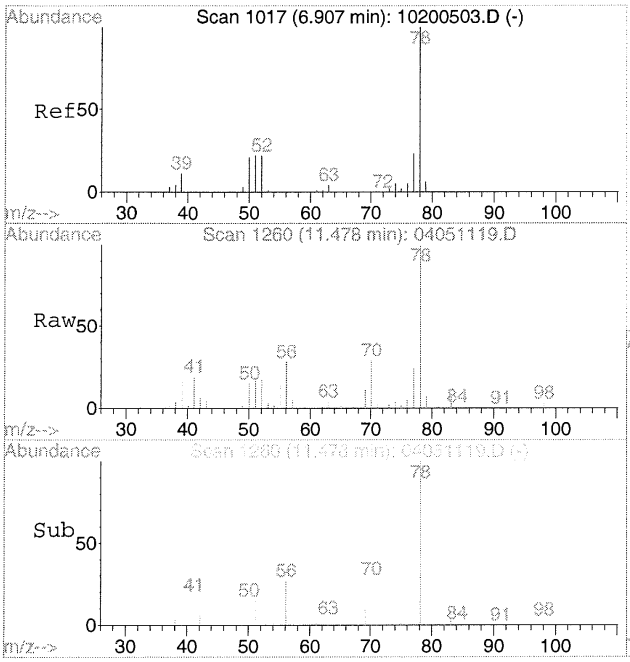


#29
Cyclohexane
Concen: 39.71 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 56 Resp: 4157836

Ion	Ratio	Lower	Upper
56	100		
84	73.3	72.4	108.6
41	68.0	43.8	65.8#

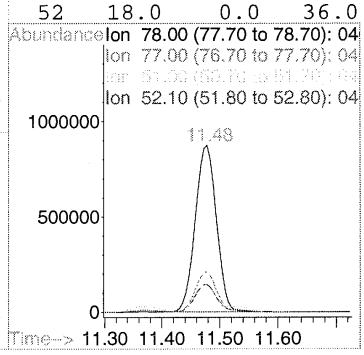


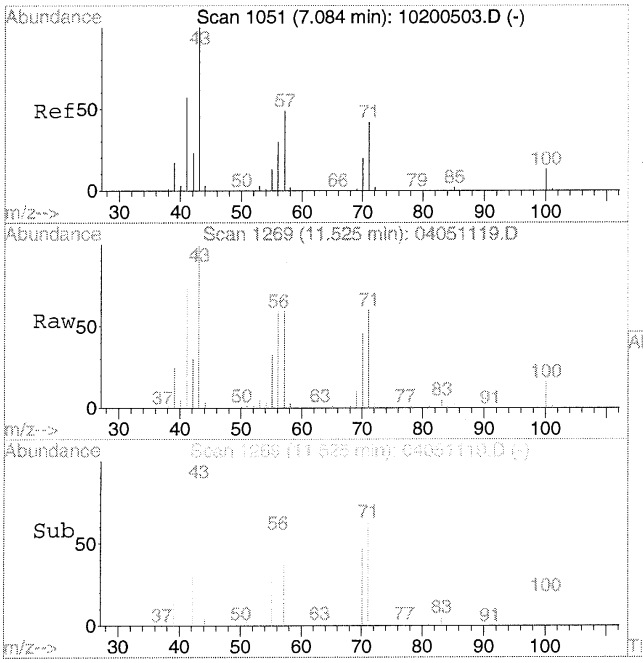


#31
Benzene
Concen: 12.69 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.01 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 78 Resp: 2221845

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	17.1	0.0	36.1
52	18.0	0.0	36.0

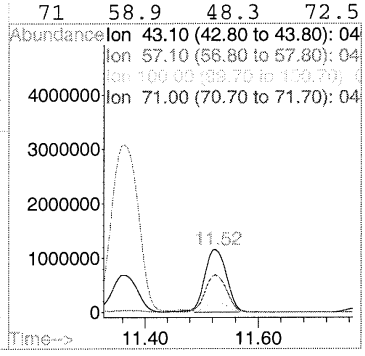


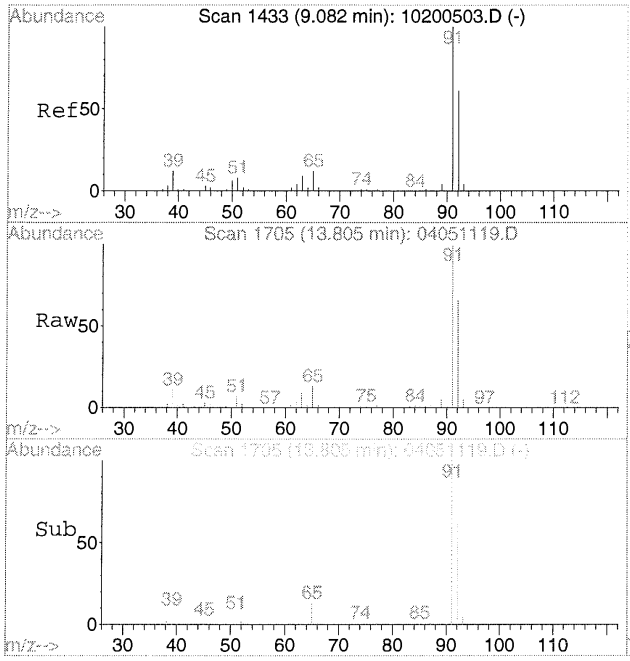


#34
Heptane
Concen: 27.62 ppbv
RT: 11.52 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 43 Resp: 3139036

Ion	Ratio	Lower	Upper
43	100		
57	58.6	42.2	63.4
100	16.1	17.3	25.9#
71	58.9	48.3	72.5

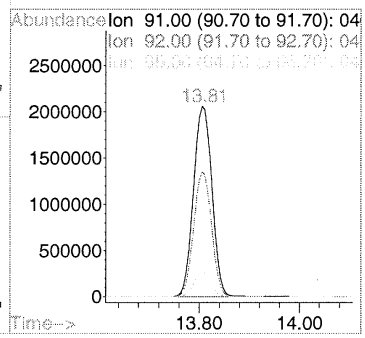


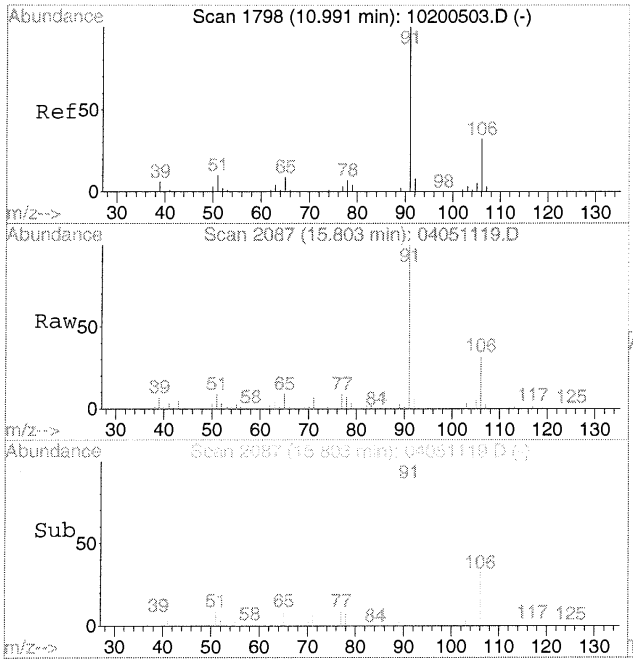


#41
Toluene
Concen: 29.75 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 91 Resp: 5276858

Ion	Ratio	Lower	Upper
91	100		
92	63.5	40.5	80.5
65	12.1	0.0	31.2

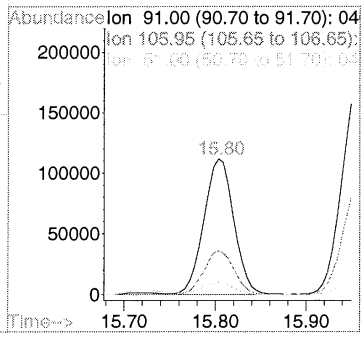


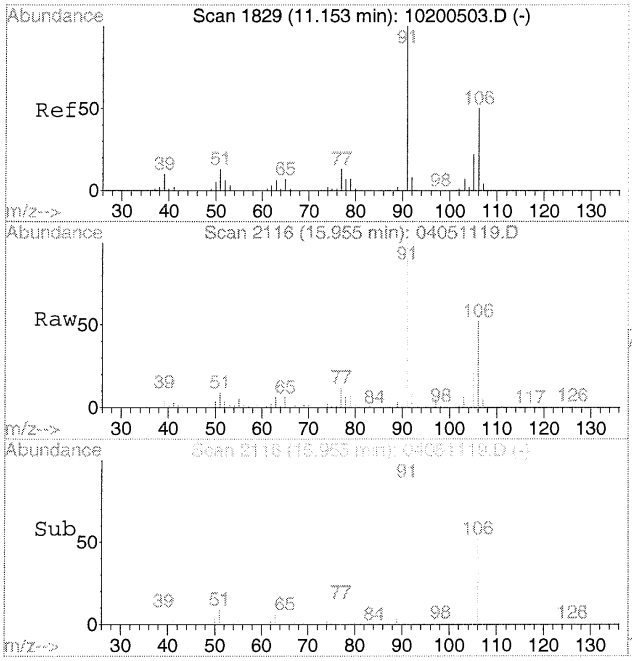


#50
Ethylbenzene
Concen: 1.17 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 91 Resp: 256116

Ion	Ratio	Lower	Upper
91	100		
106	32.3	14.9	54.9
51	9.7	0.0	33.1

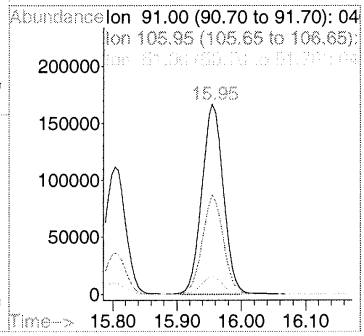


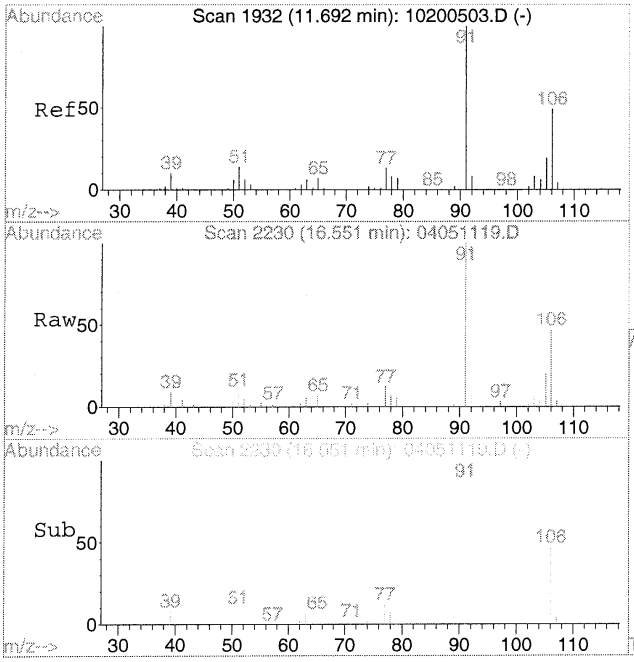


#51
m,p-Xylene
Concen: 2.30 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 91 Resp: 389970

Ion	Ratio	Lower	Upper
91	100		
106	50.3	35.6	75.6
51	9.4	0.0	29.6

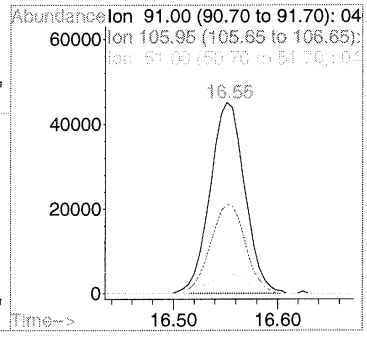




#52
o-Xylene
Concen: 0.63 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051119.D
Acq: 5 Apr 2011 10:19 pm

Tgt Ion: 91 Resp: 104395

Ion	Ratio	Lower	Upper
91	100		
106	46.9	41.0	61.6
51	11.5	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.348	59	88	124	rBV	630546	3507875	12.41%	1.207%
2	6.316	257	273	290	rBV2	69233	295110	1.04%	0.102%
3	7.189	424	440	456	rBV2	486185	1622537	5.74%	0.558%
4	7.566	491	512	530	rBV	785743	2494994	8.83%	0.859%
5	8.361	651	664	694	rBV	841675	2770719	9.80%	0.953%
6	8.774	725	743	761	rBV	3319140	10431491	36.91%	3.590%
7	8.931	761	773	790	rVB2	476528	1422552	5.03%	0.490%
8	9.093	790	804	822	rBV	2266557	6594681	23.34%	2.269%
9	9.391	848	861	892	rBV	5461841	15356215	54.34%	5.284%
10	9.914	948	961	969	rBV	271623	753533	2.67%	0.259%
11	10.008	969	979	998	rVB	1618897	4388918	15.53%	1.510%
12	10.217	1003	1019	1047	rBV	4778156	13768449	48.72%	4.738%
13	10.432	1050	1060	1069	rBV	223943	540054	1.91%	0.186%
14	10.693	1098	1110	1115	rBV	170998	469857	1.66%	0.162%
15	10.766	1115	1124	1126	rVV	1473102	3153532	11.16%	1.085%
16	10.814	1126	1133	1147	rVV	3572744	9599701	33.97%	3.303%
17	10.960	1147	1161	1168	rVV	4213850	11649129	41.22%	4.009%
18	11.038	1168	1176	1197	rVV2	7691196	23234244	82.21%	7.995%
19	11.211	1198	1209	1219	rVV	973412	2678692	9.48%	0.922%
20	11.363	1219	1238	1251	rVV	7557974	28260875	100.00%	9.725%
21	11.473	1251	1259	1263	rVV2	3384265	8369353	29.61%	2.880%
22	11.525	1263	1269	1293	rVB2	6577898	18929632	66.98%	6.514%
23	11.865	1323	1334	1346	rVB	2136043	5058382	17.90%	1.741%
24	12.205	1387	1399	1406	rBV	1345524	3207743	11.35%	1.104%
25	12.288	1406	1415	1425	rVV	2720259	7167707	25.36%	2.466%
26	12.398	1425	1436	1457	rVB	7600311	23326491	82.54%	8.027%
27	12.576	1458	1470	1475	rBV3	645716	1769975	6.26%	0.609%
28	12.628	1475	1480	1498	rVB	731342	1724602	6.10%	0.593%
29	12.801	1498	1513	1526	rBV2	4068147	10964225	38.80%	3.773%
30	12.947	1526	1541	1544	rBV6	2210346	6755738	23.90%	2.325%
31	12.995	1545	1550	1566	rVB	3093910	8101406	28.67%	2.788%
32	13.151	1569	1580	1598	rBV2	1096993	3753517	13.28%	1.292%
33	13.345	1608	1617	1631	rVB	1776528	4481229	15.86%	1.542%
34	13.575	1646	1661	1668	rBV2	1498856	4215325	14.92%	1.451%
35	13.674	1674	1680	1694	rVB	1569275	3531657	12.50%	1.215%
36	13.805	1694	1705	1722	rVB	5345063	14194513	50.23%	4.884%
37	14.082	1741	1758	1770	rBV4	695403	2150821	7.61%	0.740%
38	14.203	1770	1781	1791	rVB4	259371	780532	2.76%	0.269%
39	14.286	1791	1797	1805	rVB	170375	337172	1.19%	0.116%
40	14.830	1887	1901	1908	rVV	720175	1998441	7.07%	0.688%
41	14.888	1908	1912	1919	rVV	340573	798514	2.83%	0.275%
42	14.951	1919	1924	1930	rVV3	175546	420489	1.49%	0.145%
43	15.019	1930	1937	1958	rVB4	222548	638233	2.26%	0.220%

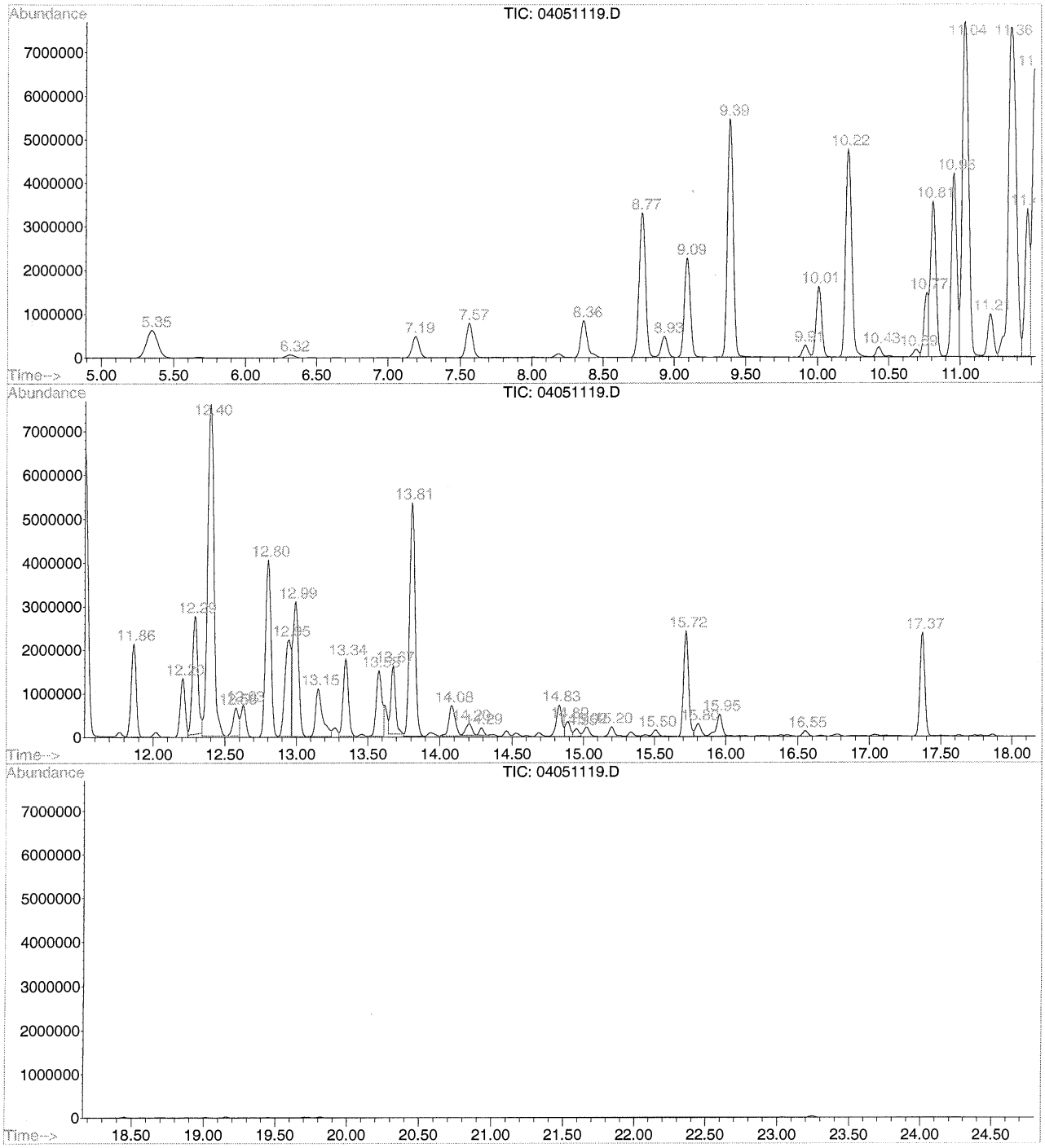
44	15.196	1958	1971	1988	rBV3	227028	630142	2.23%	0.217%
45	15.505	2022	2030	2041	rVB3	138274	343905	1.22%	0.118%
46	15.719	2059	2071	2081	rBV	2424568	5950935	21.06%	2.048%
47	15.803	2082	2087	2099	rVV2	289735	774884	2.74%	0.267%
48	15.955	2099	2116	2128	rVB2	498178	1398853	4.95%	0.481%
49	16.551	2219	2230	2241	rVB	126042	325941	1.15%	0.112%
50	17.372	2369	2387	2402	rBV	2382053	5515046	19.51%	1.898%

Sum of corrected areas: 290608561

04051119.D 031611V1.M Thu Apr 14 12:42:41 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051119.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 10:19 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-025B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 12
Quant File :031611V1.RES (RTE Integrator)



04051119.D 031611V1.M Thu Apr 14 12:42:41 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	13.90 ppbv	3507880	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	6.43 ppbv	1622540	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	9.89 ppbv	2494990	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Butane, 2-methyl-	72	C5H12	000078-78-4	39
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	32

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2-methyl- $$ Isohexan Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	41.35 ppbv	10431500	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	52

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Peak Number 5 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	26.14 ppbv	6594680	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 6 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	17.40 ppbv	4388920	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, methyl- $$ Methy Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	54.58 ppbv	13768400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

****

Peak Number 8 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	46.17 ppbv	11649100	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 9 Cyclopentane, 1,1-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	10.62 ppbv	2678690	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	64
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	59
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
5	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	37

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	69.84 ppbv	28260900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	74
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72

****

Peak Number 11 Hexane, 2,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	7.93 ppbv	3207740	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	90
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	78
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	49

****

Peak Number 12 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	17.71 ppbv	7167710	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	45
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	57.64 ppbv	23326500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	58

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	27.09 ppbv	10964200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	86
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	16.69 ppbv	6755740	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	53
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	52
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	50
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	20.02 ppbv	8101410	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	38
4	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	38
5	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	37

****

Peak Number 17 Heptane, 3-methyl- $$ 3-Methyl Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	9.28 ppbv	3753520	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	58
2	Heptane, 3-methyl-	114	C8H18	000589-81-1	58
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	47

****

Peak Number 18 Hexane, 2,2,5-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	11.07 ppbv	4481230	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051119.D Vial: 12
Acq On : 5 Apr 2011 10:19 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	10.42 ppbv	4215330	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	90

****

Peak Number 20 Octane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	8.73 ppbv	3531660	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
5	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 10:19 pm
Data File: C:\HPCHEM\1\DATA\040511\04051119.D
Name: 1103389-025B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	13.9	ppbv	3507880	ISTD01	10.77	3153530	12.5
Butane, 2-methyl-	7.19	6.4	ppbv	1622540	ISTD01	10.77	3153530	12.5
Pentane $$ n-Pentane	7.57	9.9	ppbv	2494990	ISTD01	10.77	3153530	12.5
Pentane, 2-methyl- $	8.77	41.3	ppbv	10431500	ISTD01	10.77	3153530	12.5
Pentane, 3-methyl-	9.09	26.1	ppbv	6594680	ISTD01	10.77	3153530	12.5
Pentane, 2,4-dimethy	10.01	17.4	ppbv	4388920	ISTD01	10.77	3153530	12.5
Cyclopentane, methyl	10.22	54.6	ppbv	13768400	ISTD01	10.77	3153530	12.5
Pentane, 2,3-dimethy	10.96	46.2	ppbv	11649100	ISTD01	10.77	3153530	12.5
Cyclopentane, 1,1-di	11.21	10.6	ppbv	2678690	ISTD01	10.77	3153530	12.5
Butane, 2,2,3,3-tetr	11.36	69.8	ppbv	28260900	ISTD02	11.86	5058380	12.5
Hexane, 2,5-dimethyl	12.20	7.9	ppbv	3207740	ISTD02	11.86	5058380	12.5
Hexane, 2,4-dimethyl	12.29	17.7	ppbv	7167710	ISTD02	11.86	5058380	12.5
Cyclohexane, methyl-	12.40	57.6	ppbv	23326500	ISTD02	11.86	5058380	12.5
Pentane, 2,3,4-trime	12.80	27.1	ppbv	10964200	ISTD02	11.86	5058380	12.5
Heptane, 2-methyl-	12.95	16.7	ppbv	6755740	ISTD02	11.86	5058380	12.5
Decane, 3,3,4-trimet	12.99	20.0	ppbv	8101410	ISTD02	11.86	5058380	12.5
Heptane, 3-methyl- $	13.15	9.3	ppbv	3753520	ISTD02	11.86	5058380	12.5
Hexane, 2,2,5-trimet	13.34	11.1	ppbv	4481230	ISTD02	11.86	5058380	12.5
Cyclohexane, 1,3-dim	13.58	10.4	ppbv	4215330	ISTD02	11.86	5058380	12.5
Octane	13.67	8.7	ppbv	3531660	ISTD02	11.86	5058380	12.5

04051119.D 031611V1.M Thu Apr 14 12:42:42 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:55 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	713598	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2470483	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1872029	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1140641	12.16	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.28%				
Target Compounds							Qvalue
11) Ethanol*	7.75	45	6022	0.51	ppbv	#	67
14) Acetone*	8.36	43	857921	9.76	ppbv	#	92
20) n-Hexane	9.40	57	2767347	26.56	ppbv		99
24) 2-Butanone*	10.43	43	185224	2.04	ppbv	#	90
29) Cyclohexane	11.04	56	2457300	23.29	ppbv	#	84
31) Benzene*	11.47	78	1273493	7.22	ppbv		96
34) Heptane*	11.52	43	1634721	13.70	ppbv	#	94
41) Toluene*	13.81	91	2319006	12.45	ppbv		100
50) Ethylbenzene*	15.80	91	112771	0.52	ppbv		94
51) m,p-Xylene*	15.96	91	164517	0.98	ppbv		94

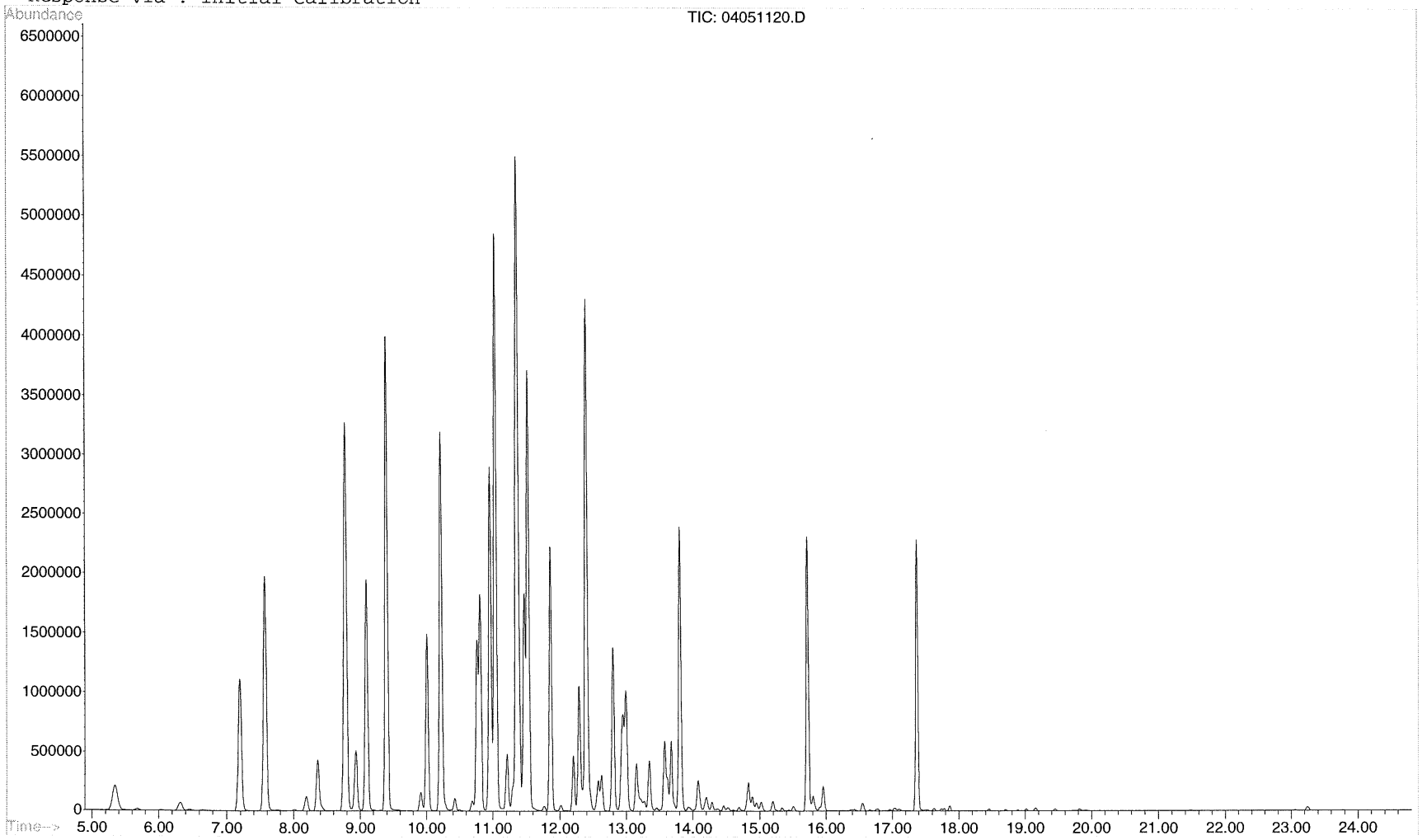
* = reported only 4/15/11 AP

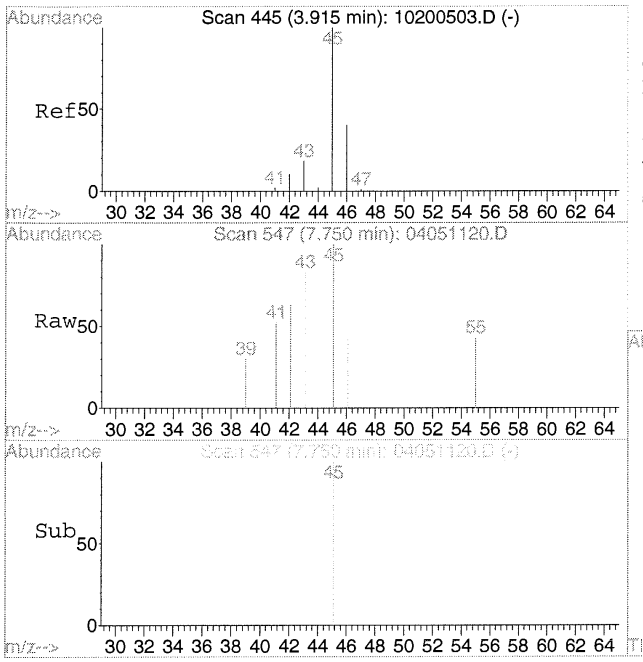
(#) = qualifier out of range (m) = manual integration
04051120.D 031611V1.M Thu Apr 14 12:42:53 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:55 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

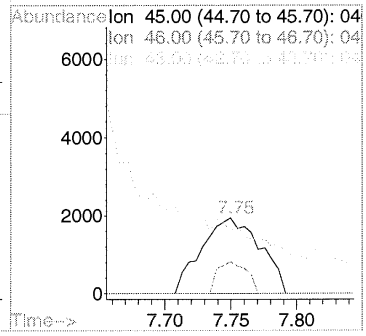


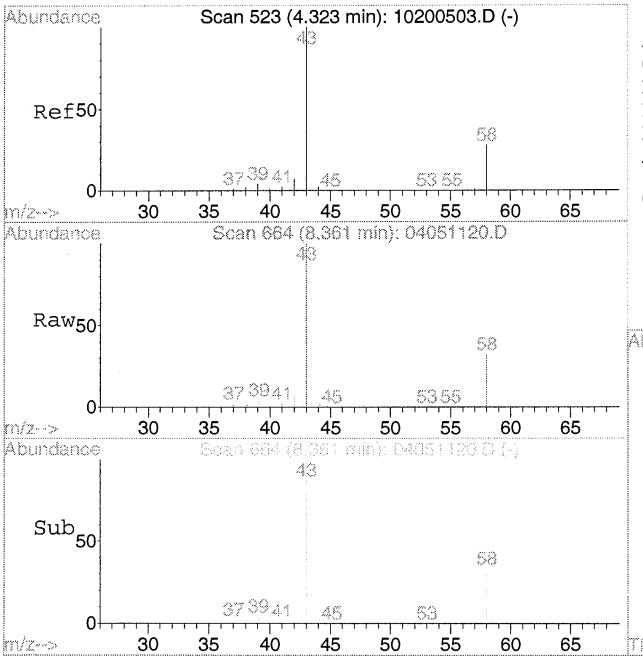


#11
Ethanol
Concen: 0.51 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 45 Resp: 6022

Ion	Ratio	Lower	Upper
45	100		
46	21.1	30.2	45.4#
43	0.0	15.8	23.6#

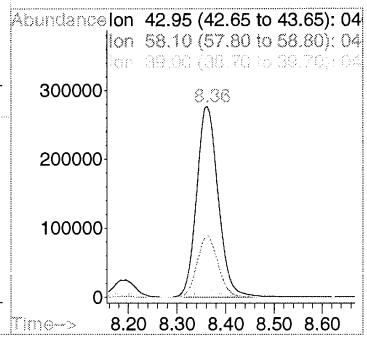


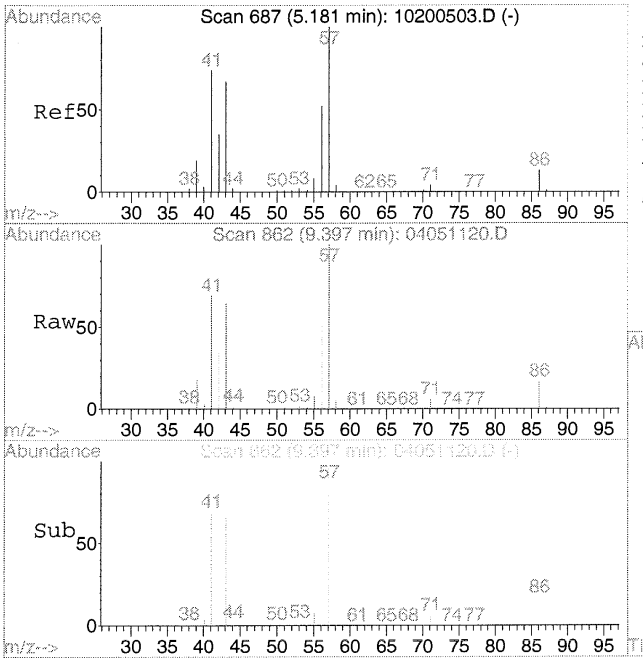


#14
Acetone
Concen: 9.76 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 43 Resp: 857921

Ion	Ratio	Lower	Upper
43	100		
58	31.1	22.0	33.0
39	4.3	6.5	9.7#

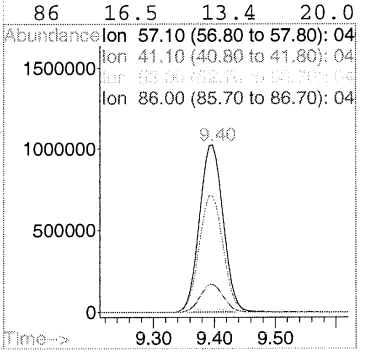


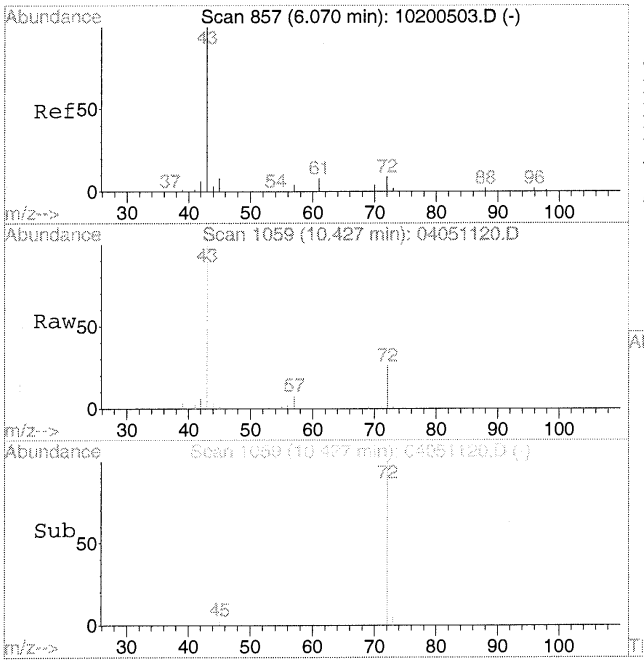


#20
n-Hexane
Concen: 26.56 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 57 Resp: 2767347

Ion	Ratio	Lower	Upper
57	100		
41	70.4	57.2	85.8
53	2.3	1.8	2.8
86	16.5	13.4	20.0

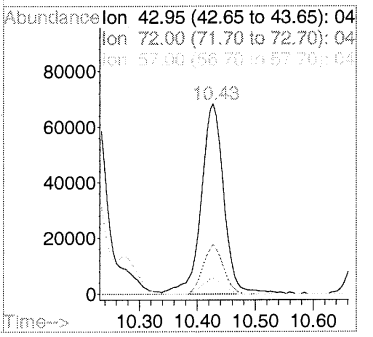


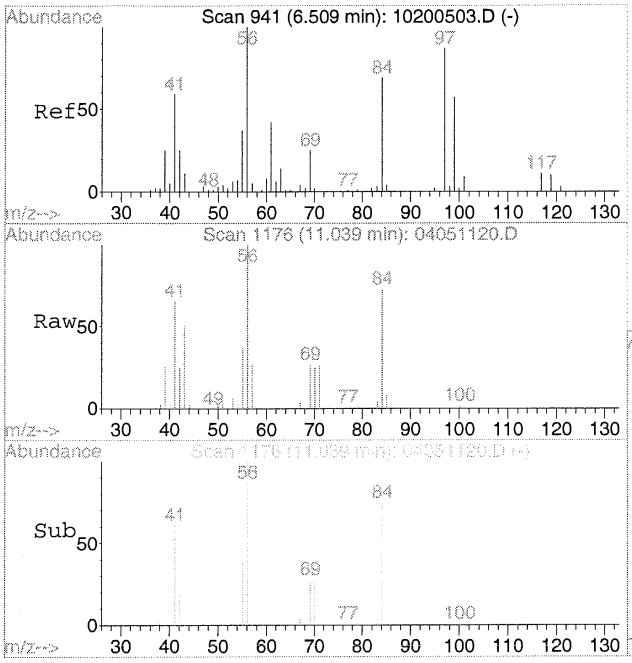


#24
2-Butanone
Concen: 2.04 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 43 Resp: 185224

Ion	Ratio	Lower	Upper
43	100		
72	23.0	23.4	35.2#
57	7.6	6.9	10.3

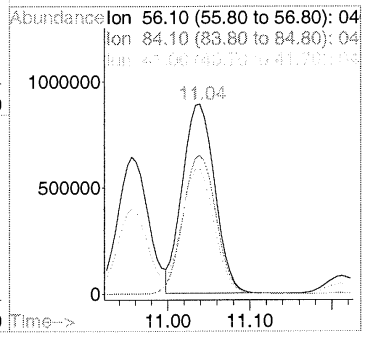


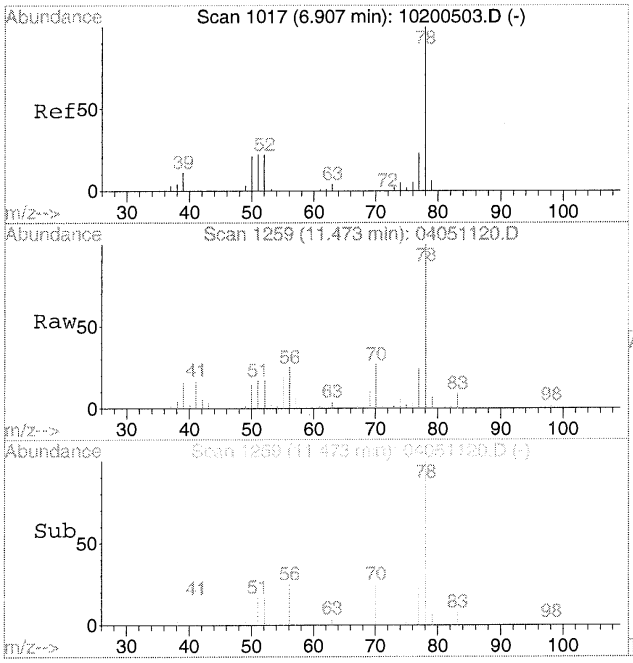


#29
Cyclohexane
Concen: 23.29 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 56 Resp: 2457300

Ion	Ratio	Lower	Upper
56	100		
84	75.2	72.4	108.6
41	66.8	43.8	65.8#

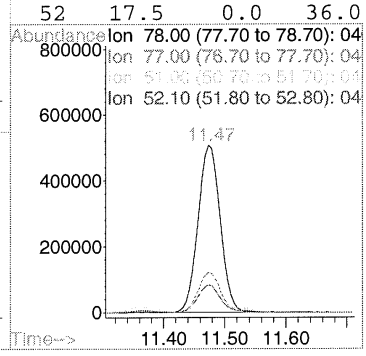


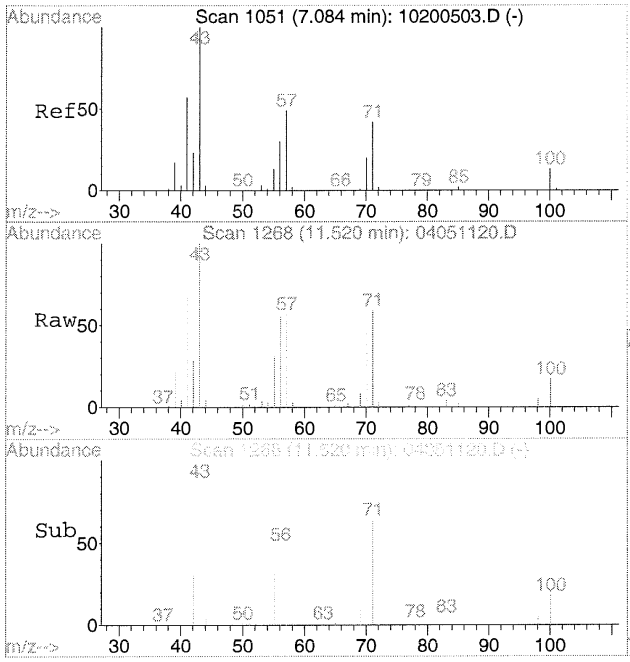


#31
Benzene
Concen: 7.22 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 78 Resp: 1273493

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	19.7	0.0	36.1
52	17.5	0.0	36.0

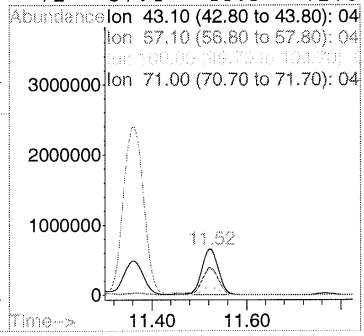


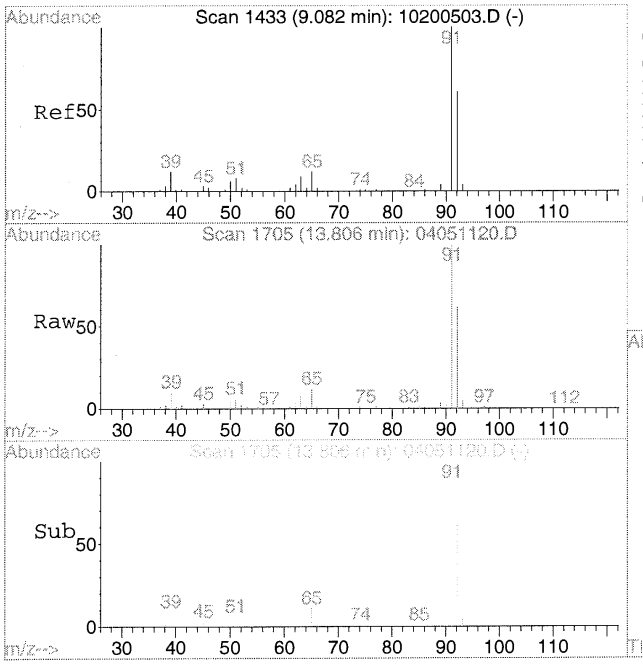


#34
Heptane
Concen: 13.70 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 43 Resp: 1634721

Ion	Ratio	Lower	Upper
43	100		
57	57.2	42.2	63.4
100	16.4	17.3	25.9#
71	57.4	48.3	72.5

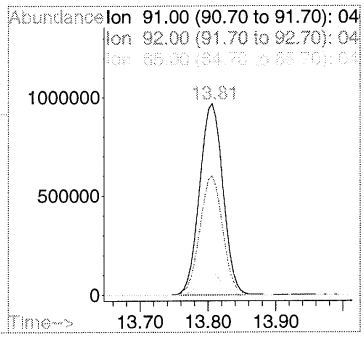


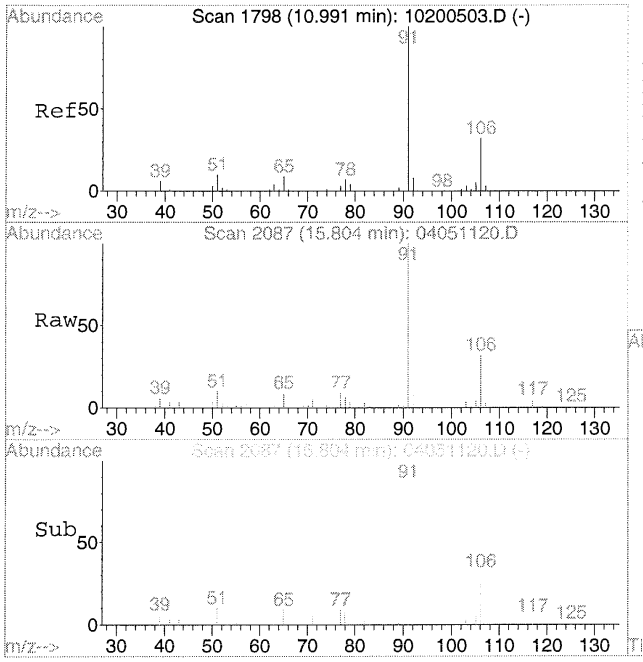


#41
Toluene
Concen: 12.45 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 91 Resp: 2319006

Ion	Ratio	Lower	Upper
91	100		
92	60.6	40.5	80.5
65	11.3	0.0	31.2

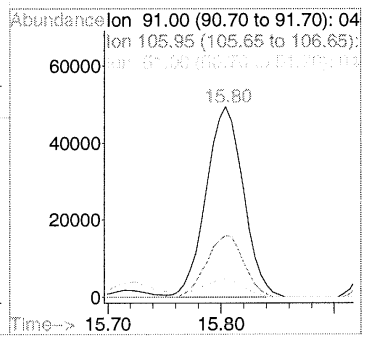


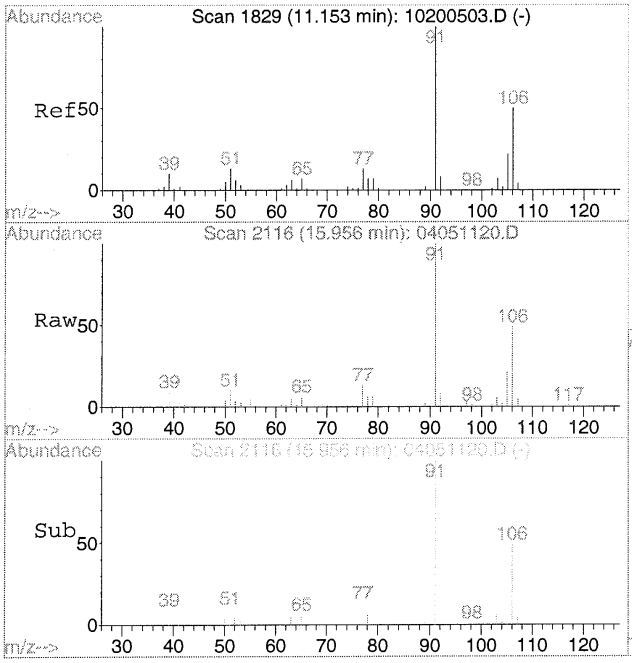


#50
Ethylbenzene
Concen: 0.52 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 91 Resp: 112771

Ion	Ratio	Lower	Upper
91	100		
106	32.1	14.9	54.9
51	9.9	0.0	33.1

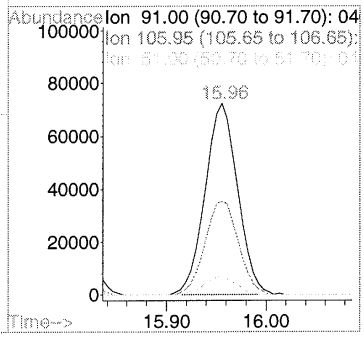




#51
m,p-Xylene
Concen: 0.98 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051120.D
Acq: 5 Apr 2011 11:04 pm

Tgt Ion: 91 Resp: 164517

Ion	Ratio	Lower	Upper
91	100		
106	50.4	35.6	75.6
51	9.6	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.344	60	87	117	rBV	209182	1149390	6.41%	0.660%
2	6.322	258	274	290	rBV4	67401	288515	1.61%	0.166%
3	7.195	425	441	468	rBV	1113954	3831955	21.38%	2.202%
4	7.572	492	513	535	rBV	1974028	6359117	35.48%	3.654%
5	8.189	619	631	649	rBB2	121485	397288	2.22%	0.228%
6	8.361	650	664	693	rBV	434005	1391142	7.76%	0.799%
7	8.780	725	744	762	rBV	3275671	10253433	57.21%	5.891%
8	8.937	762	774	790	rVV	506870	1518988	8.48%	0.873%
9	9.094	790	804	823	rVV	1941634	5521222	30.81%	3.172%
10	9.392	849	861	890	rBV	3991604	10786797	60.18%	6.198%
11	9.915	947	961	969	rBV2	157270	442634	2.47%	0.254%
12	10.009	969	979	999	rVB	1488913	4017763	22.42%	2.308%
13	10.218	1003	1019	1042	rBV	3192230	8843318	49.34%	5.081%
14	10.427	1049	1059	1069	rVB	100470	240831	1.34%	0.138%
15	10.689	1097	1109	1114	rBV	86451	228823	1.28%	0.131%
16	10.762	1114	1123	1127	rVV	1437567	3548010	19.80%	2.039%
17	10.809	1128	1132	1146	rVV	1817507	4094124	22.84%	2.352%
18	10.956	1147	1160	1167	rVV	2895485	7633888	42.59%	4.386%
19	11.034	1167	1175	1197	rVV	4844018	13443094	75.00%	7.724%
20	11.212	1198	1209	1218	rVV	468691	1244241	6.94%	0.715%
21	11.364	1218	1238	1250	rVV	5486648	17922994	100.00%	10.298%
22	11.473	1250	1259	1263	rVV2	1809336	4657536	25.99%	2.676%
23	11.526	1263	1269	1284	rVB3	3690610	9455758	52.76%	5.433%
24	11.860	1322	1333	1351	rVV	2220355	5340288	29.80%	3.068%
25	12.200	1386	1398	1406	rBV	468724	1119806	6.25%	0.643%
26	12.289	1406	1415	1424	rVV	1050215	2873482	16.03%	1.651%
27	12.394	1425	1435	1457	rVV	4309204	11770572	65.67%	6.763%
28	12.577	1457	1470	1474	rVV4	257881	718742	4.01%	0.413%
29	12.624	1474	1479	1492	rVB	301393	730843	4.08%	0.420%
30	12.797	1499	1512	1526	rBV2	1377838	3620780	20.20%	2.080%
31	12.943	1526	1540	1544	rBV4	803661	2429597	13.56%	1.396%
32	12.990	1545	1549	1568	rVB	1012693	2508052	13.99%	1.441%
33	13.147	1568	1579	1598	rBV3	396845	1385162	7.73%	0.796%
34	13.341	1608	1616	1631	rVB	415771	1070874	5.97%	0.615%
35	13.576	1644	1661	1667	rBV2	584171	1602580	8.94%	0.921%
36	13.675	1674	1680	1694	rVB	566819	1273083	7.10%	0.731%
37	13.806	1694	1705	1721	rVB	2385808	5947438	33.18%	3.417%
38	14.078	1742	1757	1770	rBV4	252603	728753	4.07%	0.419%
39	14.203	1770	1781	1790	rBV4	101871	282150	1.57%	0.162%
40	14.831	1887	1901	1907	rVV	239797	667705	3.73%	0.384%
41	14.883	1907	1911	1918	rVV2	119510	290232	1.62%	0.167%
42	14.946	1918	1923	1930	rVV3	70315	182119	1.02%	0.105%
43	15.025	1930	1938	1950	rVB2	74926	209481	1.17%	0.120%

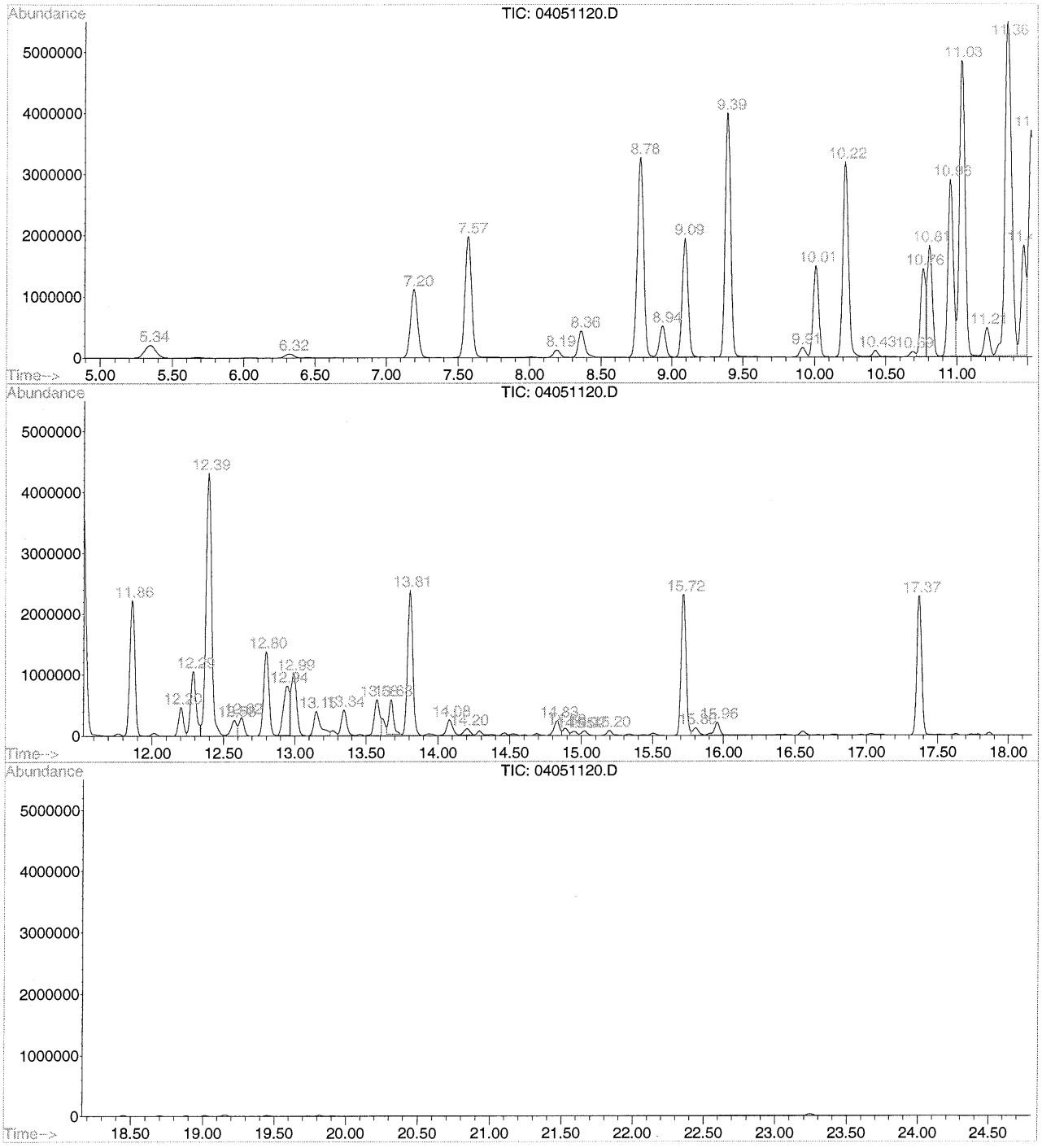
44	15.197	1959	1971	1989	rBV2	82527	221299	1.23%	0.127%
45	15.720	2058	2071	2081	rBV	2309111	5606516	31.28%	3.221%
46	15.804	2081	2087	2100	rVB	122000	326925	1.82%	0.188%
47	15.956	2108	2116	2128	rVB	208493	509661	2.84%	0.293%
48	17.373	2373	2387	2405	rBV	2281011	5359268	29.90%	3.079%

Sum of corrected areas: 174046269

04051120.D 031611V1.M Thu Apr 14 12:42:58 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051120.D
Operator : Michael Truchan/Rachel Hill
Acquired : 5 Apr 2011 11:04 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-026B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 13
Quant File :031611V1.RES (RTE Integrator)



04051120.D 031611V1.M Thu Apr 14 12:42:58 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****
Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.34	4.05 ppbv	1149390	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****
Peak Number 2 Butane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	13.50 ppbv	3831960	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	Isobutane	58	C4H10	000075-28-5	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****
Peak Number 3 Pentane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	22.40 ppbv	6359120	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	39
5	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	36

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.78	36.12 ppbv	10253400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	52

****

Peak Number 5 Cyclopentane $$ Pentamethylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.94	5.35 ppbv	1518990	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	72
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	38
3	1-Pentene	70	C5H10	000109-67-1	32
4	1-Pentene	70	C5H10	000109-67-1	25
5	1-Pentene	70	C5H10	000109-67-1	25

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	19.45 ppbv	5521220	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	14.15 ppbv	4017760	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 8 Cyclopentane, methyl- $$ Methy Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	31.16 ppbv	8843320	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Aziridine, 1-(2-buten-2-yl)-	97	C6H11N	000000-00-0	56

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	26.90 ppbv	7633890	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	4.38 ppbv	1244240	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	53
3	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
4	1-Heptene, 6-methyl- $$ 6-Methyl-1-	112	C8H16	005026-76-6	40
5	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	38

****

Peak Number 11 Pentane, 2,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	41.95 ppbv	17923000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
3	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	64

****

Peak Number 12 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	2.62 ppbv	1119810	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	70
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	6.73 ppbv	2873480	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	53
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43
4	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	38

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	27.55 ppbv	11770600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 15 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	8.48 ppbv	3620780	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	5.69 ppbv	2429600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	53
4	Butane, 1-(ethenyloxy)-3-methyl-	114	C7H14O	039782-38-2	50
5	Pyrrolidine $$ Azacyclopentane $$ A	71	C4H9N	000123-75-1	50

****

Peak Number 17 Pentane, 2,3,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	5.87 ppbv	2508050	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	42
3	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	36
4	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	23
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	17

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.24 ppbv	1385160	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	64
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051120.D Vial: 13
Acq On : 5 Apr 2011 11:04 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.75 ppbv	1602580	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	76

****

Peak Number 20 Octane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	2.98 ppbv	1273080	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Undecane, 2,4-dimethyl-	184	C13H28	017312-80-0	59

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 5 Apr 2011 11:04 pm
Data File: C:\HPCHEM\1\DATA\040511\04051120.D
Name: 1103389-026B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.34	4.0	ppbv	1149390	ISTD01	10.76	3548010	12.5
Butane, 2-methyl-	7.20	13.5	ppbv	3831960	ISTD01	10.76	3548010	12.5
Pentane	7.57	22.4	ppbv	6359120	ISTD01	10.76	3548010	12.5
Pentane, 2-methyl-	8.78	36.1	ppbv	10253400	ISTD01	10.76	3548010	12.5
Cyclopentane $$ Pent	8.94	5.4	ppbv	1518990	ISTD01	10.76	3548010	12.5
Pentane, 3-methyl-	9.09	19.5	ppbv	5521220	ISTD01	10.76	3548010	12.5
Pentane, 2,4-dimethy	10.01	14.2	ppbv	4017760	ISTD01	10.76	3548010	12.5
Cyclopentane, methyl	10.22	31.2	ppbv	8843320	ISTD01	10.76	3548010	12.5
Pentane, 2,3-dimethy	10.96	26.9	ppbv	7633890	ISTD01	10.76	3548010	12.5
Cyclopentane, 1,1-di	11.21	4.4	ppbv	1244240	ISTD01	10.76	3548010	12.5
Pentane, 2,2,4-trime	11.36	42.0	ppbv	17923000	ISTD02	11.86	5340290	12.5
Hexane, 2,5-dimethyl	12.20	2.6	ppbv	1119810	ISTD02	11.86	5340290	12.5
Hexane, 1-(hexyloxy)	12.29	6.7	ppbv	2873480	ISTD02	11.86	5340290	12.5
Cyclohexane, methyl-	12.39	27.6	ppbv	11770600	ISTD02	11.86	5340290	12.5
Pentane, 2,3,4-trime	12.80	8.5	ppbv	3620780	ISTD02	11.86	5340290	12.5
Heptane, 2-methyl-	12.94	5.7	ppbv	2429600	ISTD02	11.86	5340290	12.5
Pentane, 2,3,4-trime	12.99	5.9	ppbv	2508050	ISTD02	11.86	5340290	12.5
Heptane, 3-methyl-	13.15	3.2	ppbv	1385160	ISTD02	11.86	5340290	12.5
Cyclohexane, 1,3-dim	13.58	3.8	ppbv	1602580	ISTD02	11.86	5340290	12.5
Octane	13.68	3.0	ppbv	1273080	ISTD02	11.86	5340290	12.5

04051120.D 031611V1.M Thu Apr 14 12:42:59 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	708192	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2454894	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1886064	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1173804	12.42	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.36%				
Target Compounds							Qvalue
14) Acetone*	8.36	43	1447507	16.59	ppbv	#	91
20) n-Hexane	9.39	57	2927810	28.31	ppbv		99
24) 2-Butanone*	10.43	43	349210	3.88	ppbv		92
29) Cyclohexane	11.04	56	3518260	33.60	ppbv	#	82
31) Benzene*	11.48	78	1970780	11.26	ppbv		97
34) Heptane	11.52	43	2989471	25.21	ppbv	#	94
41) Toluene *	13.80	91	3593089	19.42	ppbv		98
50) Ethylbenzene*	15.80	91	210986	0.96	ppbv		95
51) m,p-Xylene*	15.96	91	354547	2.09	ppbv		94
52) o-Xylene *	16.55	91	102629	0.62	ppbv	#	88

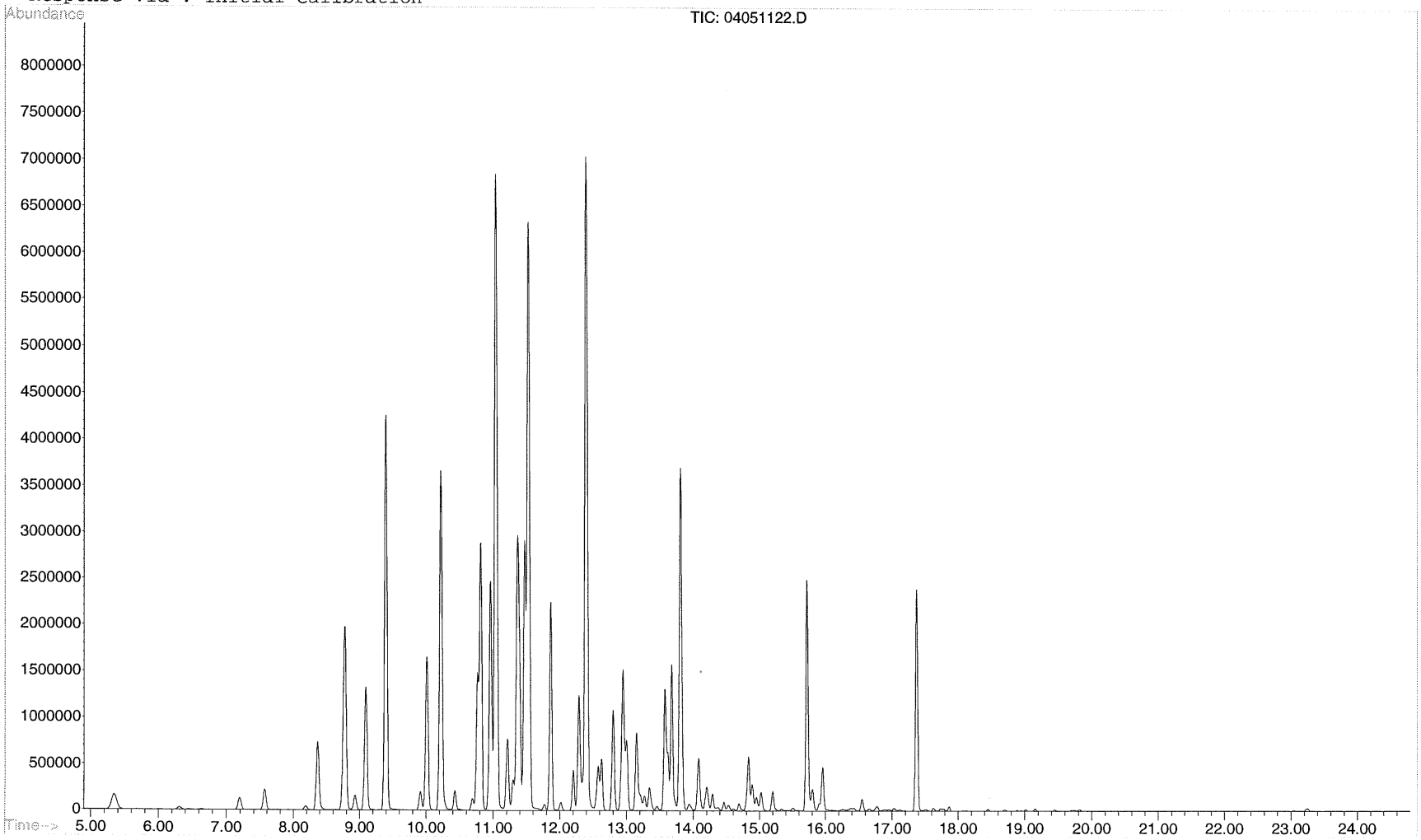
* = reported only 4/15/11 AP

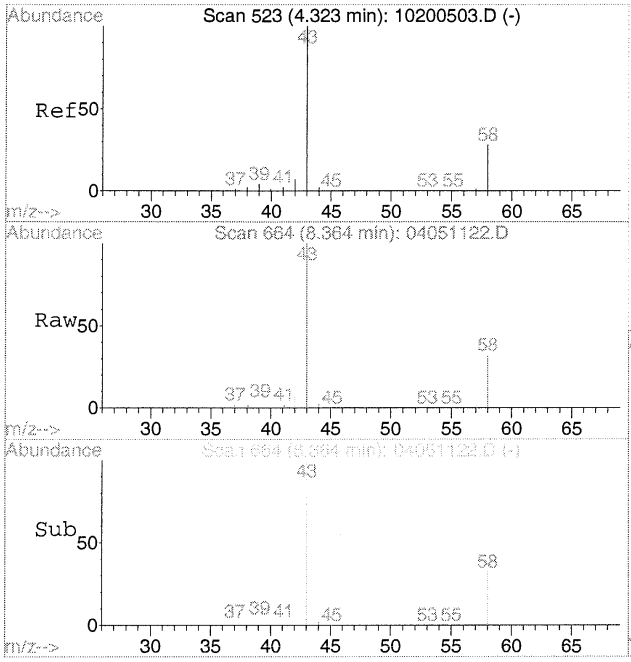
(#) = qualifier out of range (m) = manual integration
04051122.D 031611V1.M Thu Apr 14 12:43:05 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

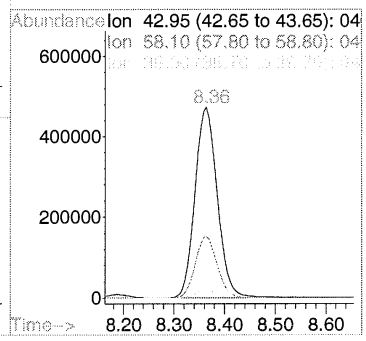


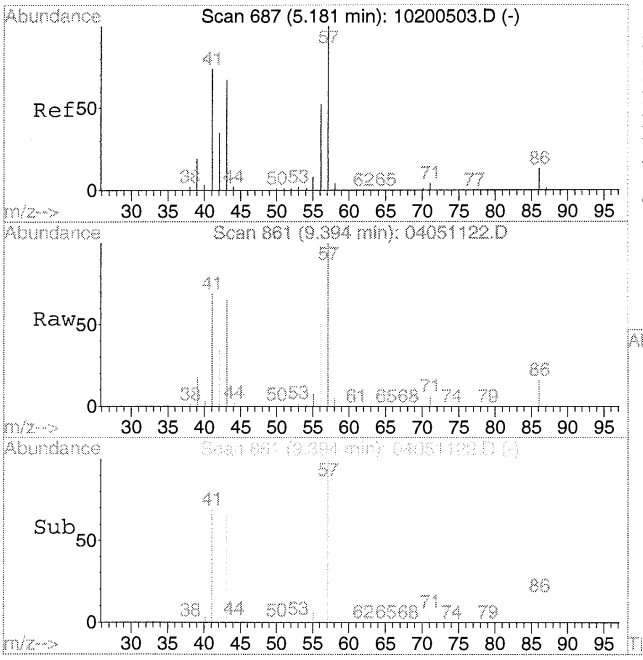


#14
Acetone
Concen: 16.59 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.01 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 43 Resp: 1447507

Ion	Ratio	Lower	Upper
43	100		
58	31.6	22.0	33.0
39	4.1	6.5	9.7#

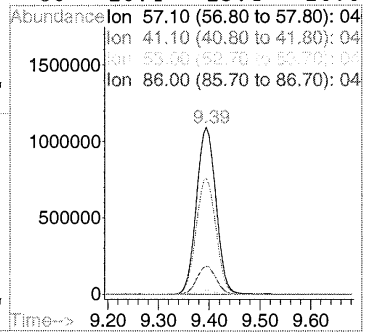


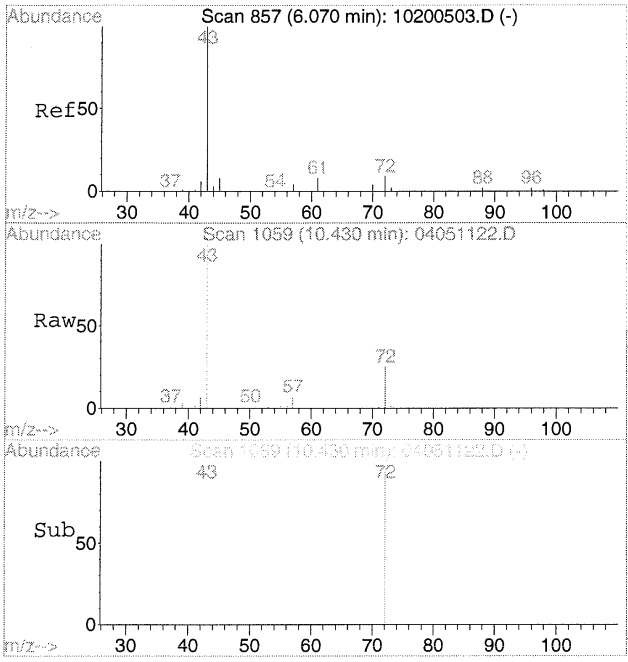


#20
n-Hexane
Concen: 28.31 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 57 Resp: 2927810

Ion	Ratio	Lower	Upper
57	100		
41	70.5	57.2	85.8
53	2.3	1.8	2.8
86	16.4	13.4	20.0

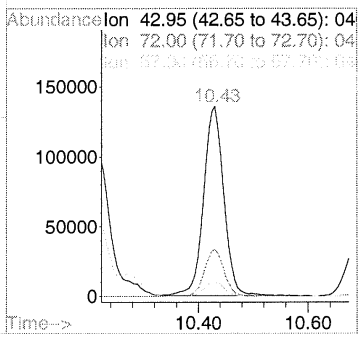


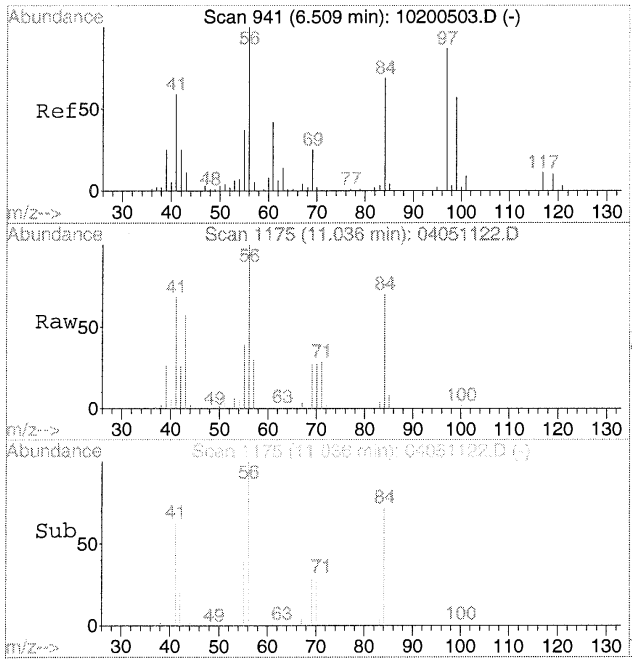


#24
2-Butanone
Concen: 3.88 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 43 Resp: 349210

Ion	Ratio	Lower	Upper
43	100		
72	24.0	23.4	35.2
57	7.8	6.9	10.3

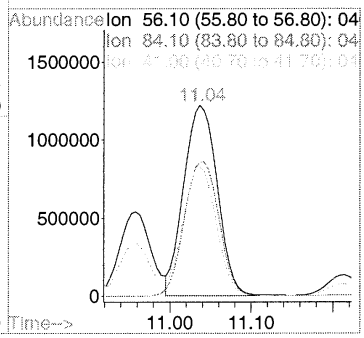


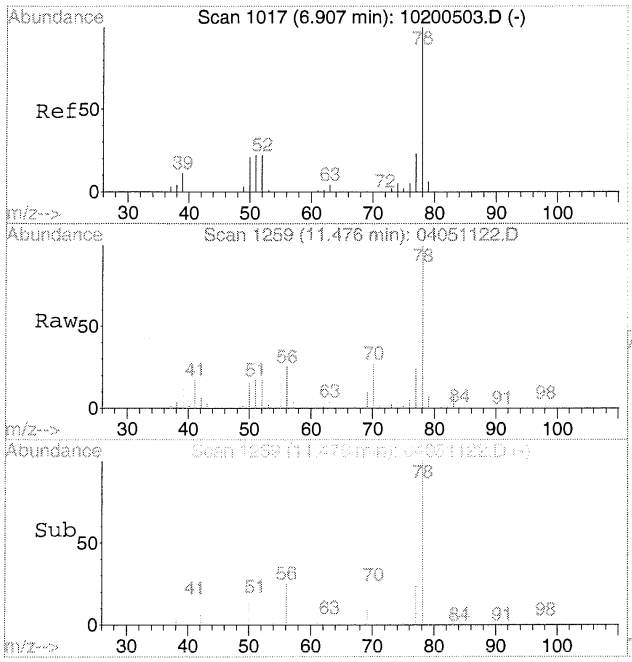


#29
Cyclohexane
Concen: 33.60 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 56 Resp: 3518260

Ion	Ratio	Lower	Upper
56	100		
84	72.8	72.4	108.6
41	67.6	43.8	65.8#

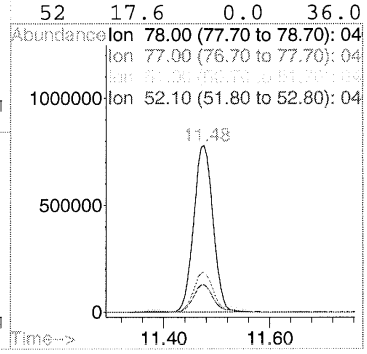


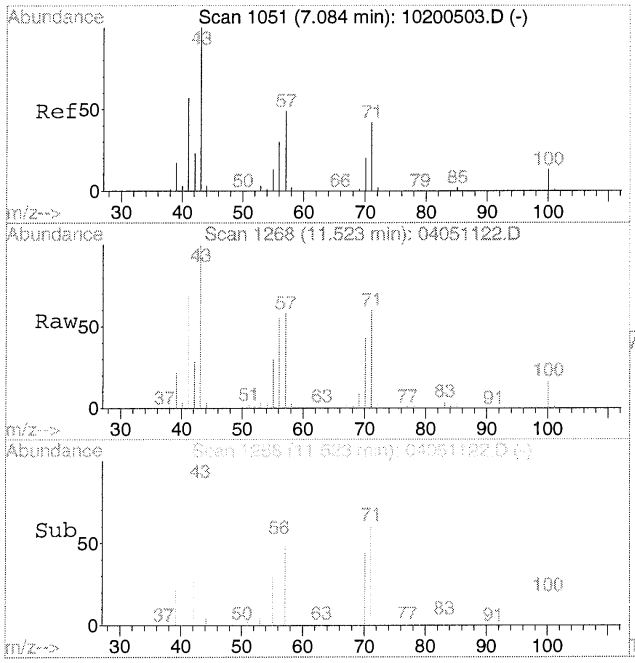


#31
Benzene
Concen: 11.26 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 78 Resp: 1970780

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	16.9	0.0	36.1
52	17.6	0.0	36.0

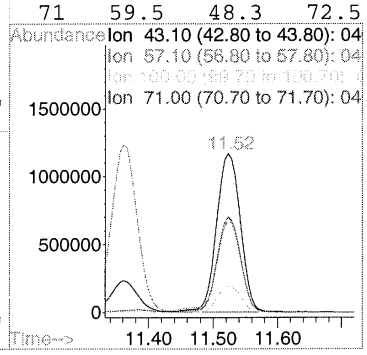


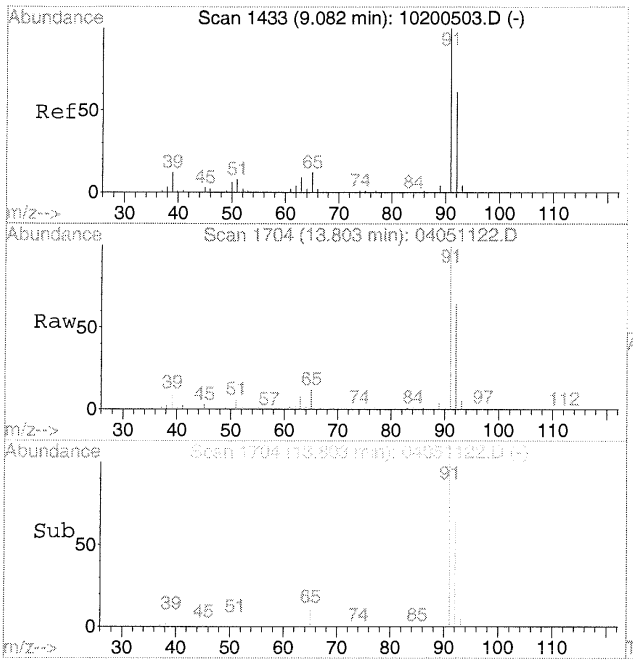


#34
Heptane
Concen: 25.21 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 43 Resp: 2989471

Ion	Ratio	Lower	Upper
43	100		
57	59.5	42.2	63.4
100	16.7	17.3	25.9#
71	59.5	48.3	72.5

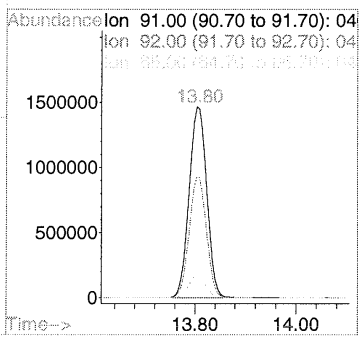


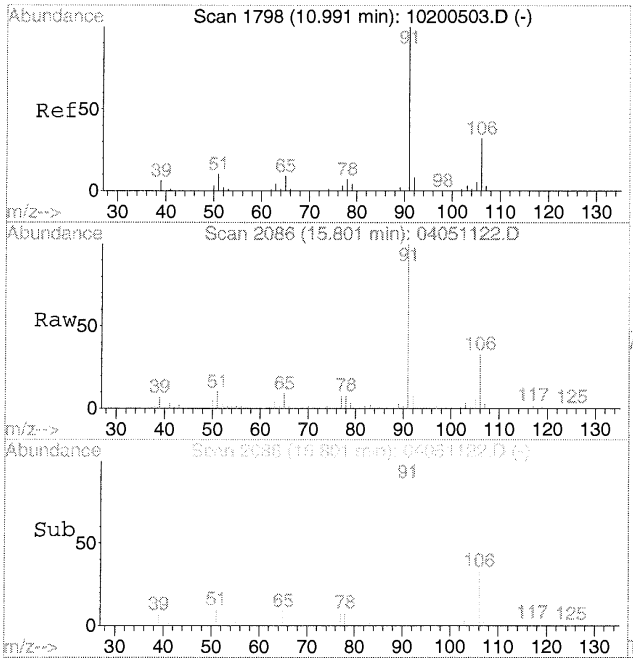


#41
Toluene
Concen: 19.42 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 3593089

Ion	Ratio	Lower	Upper
91	100		
92	62.1	40.5	80.5
65	11.5	0.0	31.2

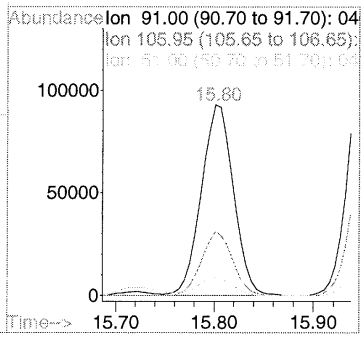


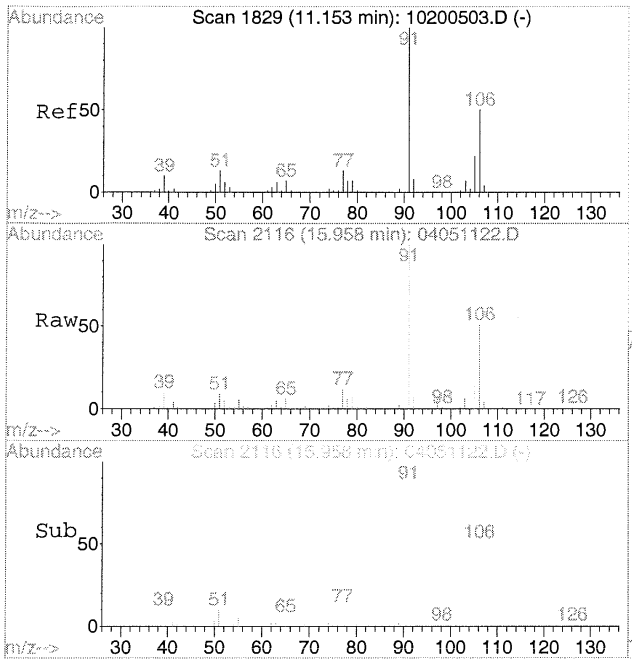


#50
Ethylbenzene
Concen: 0.96 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 210986

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.2	0.0	33.1

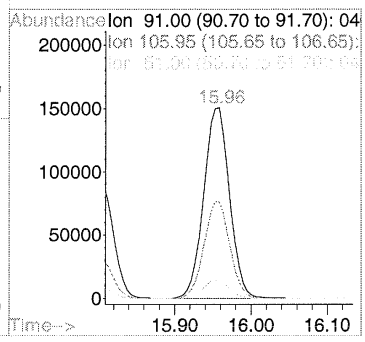


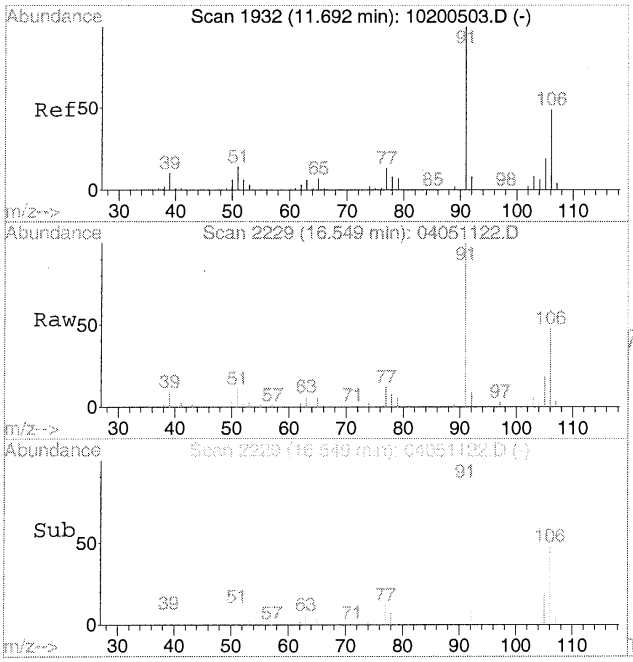


#51
m,p-Xylene
Concen: 2.09 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 354547

Ion	Ratio	Lower	Upper
91	100		
106	50.2	35.6	75.6
51	9.7	0.0	29.6

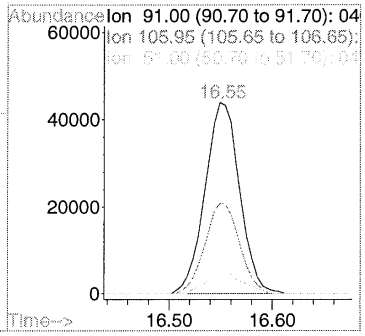




#52
o-Xylene
Concen: 0.62 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04051122.D
Acq: 6 Apr 2011 12:33 am

Tgt Ion: 91 Resp: 102629

Ion	Ratio	Lower	Upper
91	100		
106	47.5	41.0	61.6
51	11.9	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.346	64	87	119	rVB	161307	886929	4.42%	0.450%
2	7.187	425	439	455	rVB	130262	435854	2.17%	0.221%
3	7.564	495	511	529	rVB2	222288	704490	3.51%	0.358%
4	8.364	649	664	687	rBV	737621	2279204	11.35%	1.157%
5	8.772	725	742	761	rBV2	1975796	6500017	32.37%	3.299%
6	8.929	761	772	787	rVB3	158346	473330	2.36%	0.240%
7	9.091	789	803	821	rBV	1320957	3762306	18.74%	1.910%
8	9.394	847	861	893	rBV	4256567	11410118	56.83%	5.791%
9	9.917	947	961	968	rBV2	202457	558537	2.78%	0.283%
10	10.006	968	978	998	rVB	1647842	4483519	22.33%	2.276%
11	10.215	1004	1018	1043	rBV	3659713	10242364	51.01%	5.199%
12	10.430	1046	1059	1069	rVV	204687	509797	2.54%	0.259%
13	10.691	1097	1109	1113	rBV	127556	325403	1.62%	0.165%
14	10.764	1113	1123	1125	rVV	1478481	3037829	15.13%	1.542%
15	10.812	1126	1132	1147	rVV	2880209	7328501	36.50%	3.720%
16	10.958	1147	1160	1166	rVV	2456341	6451880	32.13%	3.275%
17	11.036	1166	1175	1196	rVV2	6842522	19658375	97.91%	9.978%
18	11.209	1197	1208	1218	rVV	754504	2051563	10.22%	1.041%
19	11.298	1218	1225	1228	rVV	317138	710497	3.54%	0.361%
20	11.366	1228	1238	1250	rVV3	2943850	10686760	53.23%	5.424%
21	11.471	1250	1258	1262	rVV3	2886059	7086587	35.29%	3.597%
22	11.528	1262	1269	1288	rVB2	6310682	17268236	86.00%	8.765%
23	11.863	1322	1333	1351	rVV	2237693	5331685	26.55%	2.706%
24	12.014	1352	1362	1374	rVB	84200	214622	1.07%	0.109%
25	12.203	1385	1398	1405	rBV	433448	1022375	5.09%	0.519%
26	12.286	1405	1414	1423	rVV	1232028	3424938	17.06%	1.738%
27	12.396	1424	1435	1457	rVV	7038997	20078373	100.00%	10.191%
28	12.574	1457	1469	1474	rVV3	477546	1372146	6.83%	0.696%
29	12.626	1474	1479	1492	rVB	553834	1312117	6.53%	0.666%
30	12.799	1498	1512	1526	rBV3	1075834	2800497	13.95%	1.421%
31	12.945	1526	1540	1547	rBV3	1504033	4473142	22.28%	2.270%
32	13.149	1567	1579	1596	rBV	828015	2543050	12.67%	1.291%
33	13.270	1596	1602	1609	rVB3	118055	263176	1.31%	0.134%
34	13.343	1609	1616	1631	rVB	240512	662447	3.30%	0.336%
35	13.573	1645	1660	1667	rBV2	1294692	3612265	17.99%	1.833%
36	13.672	1673	1679	1693	rVB	1520729	3391257	16.89%	1.721%
37	13.803	1693	1704	1721	rVB	3682247	9605787	47.84%	4.876%
38	13.934	1721	1729	1742	rVB5	64616	209969	1.05%	0.107%
39	14.080	1743	1757	1769	rBV3	556820	1523882	7.59%	0.773%
40	14.201	1769	1780	1789	rBV4	233953	668121	3.33%	0.339%
41	14.284	1789	1796	1807	rVB	156953	325729	1.62%	0.165%
42	14.828	1886	1900	1907	rVV	579374	1620672	8.07%	0.823%
43	14.886	1907	1911	1918	rVV	285094	669332	3.33%	0.340%

44	14.949	1918	1923	1930	rVV3	145130	376987	1.88%	0.191%
45	15.022	1930	1937	1957	rVB3	202580	547705	2.73%	0.278%
46	15.200	1958	1971	1989	rBV	210204	550412	2.74%	0.279%
47	15.717	2058	2070	2081	rBV	2482603	6043077	30.10%	3.067%
48	15.801	2081	2086	2099	rVV	228089	575106	2.86%	0.292%
49	15.958	2108	2116	2127	rVB	452241	1119300	5.57%	0.568%
50	16.549	2218	2229	2241	rBV	124590	322116	1.60%	0.163%
51	17.370	2372	2386	2404	rBV	2382417	5508368	27.43%	2.796%

Sum of corrected areas: 197020749

04051122.D 031611V1.M Thu Apr 14 12:43:11 2011

LSC Report - Integrated Chromatogram

```
File       : C:\HPCHEM\1\DATA\040511\04051122.D
Operator   : Michael Truchan/Rachel Hill
Acquired   :  6 Apr 2011  12:33 am using AcqMethod 031611V1
Instrument :   GC/MS Ins
Sample Name: 1103389-027B
Misc Info  : SAMP EPA_TO15-UG/M3
Vial Number: 15
Quant File :031611V1.RES (RTE Integrator)
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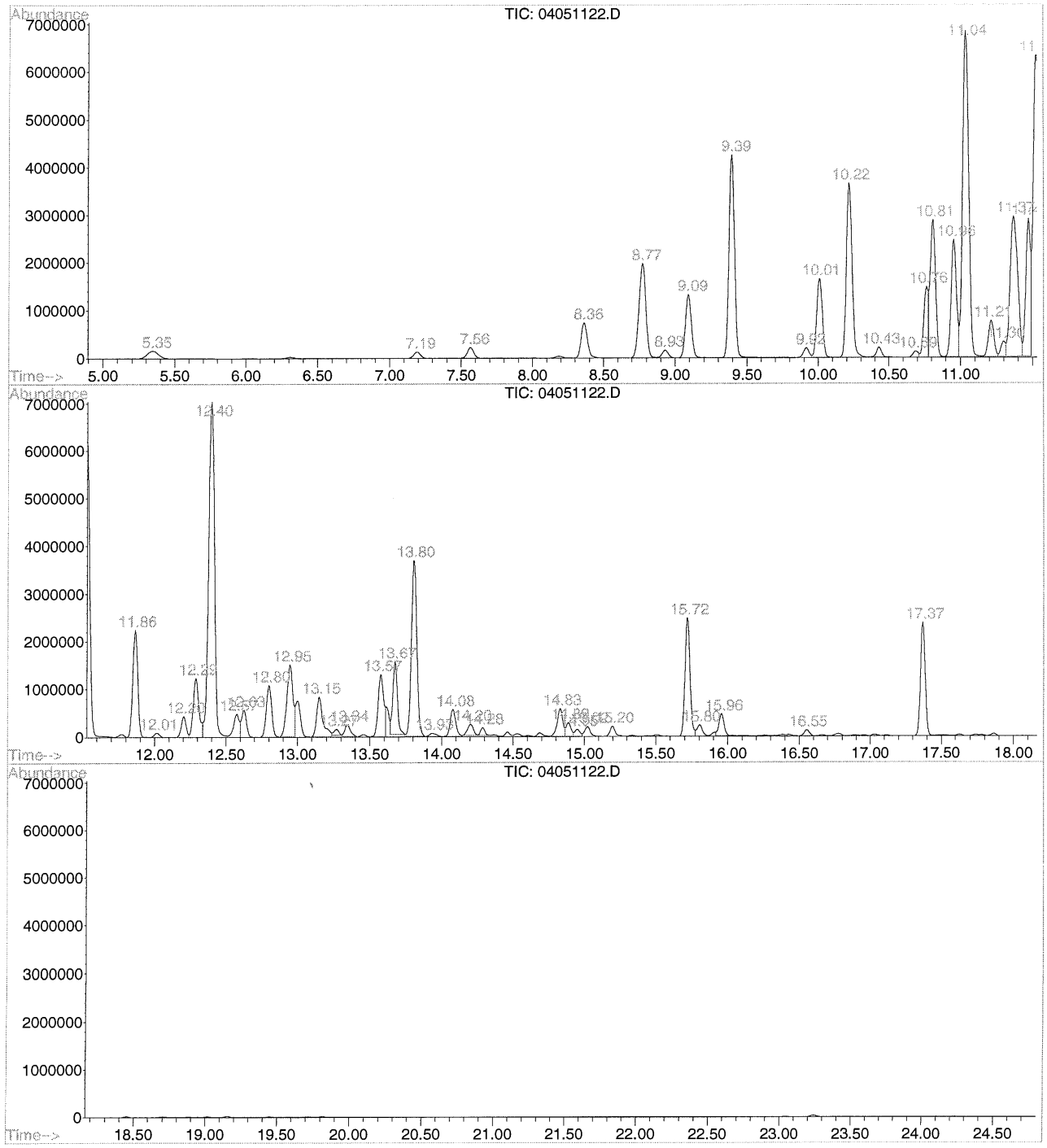


04051122.D 031611V1.M Thu Apr 14 12:43:11 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	3.65 ppbv	886929	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	26.75 ppbv	6500020	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	64

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	15.48 ppbv	3762310	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	18.45 ppbv	4483520	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	52

****

Peak Number 5 Cyclopentane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	42.15 ppbv	10242400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	26.55 ppbv	6451880	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, 1,1-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	8.44 ppbv	2051560	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	53
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	49
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	42
5	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	38

****

Peak Number 8 Pentane, 3-ethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	2.92 ppbv	710497	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-ethyl-	100	C7H16	000617-78-7	72
2	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	72
3	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	59
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	45
5	Pyrrolidine	71	C4H9N	000123-75-1	42

****

Peak Number 9 Hexane, 2,2,5-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	25.05 ppbv	10686800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	59
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	8.03 ppbv	3424940	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	50
2	Cyclopentane, 1,1,3-trimethyl- $$ 1	112	C8H16	004516-69-2	40
3	(1R,2R)-(-)-1,2-Diaminocyclohexane	114	C6H14N2	020439-47-8	38
4	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	38
5	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	37

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	47.07 ppbv	20078400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	3.22 ppbv	1372150	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	78
4	Cyclopentane, (1-methylethyl)- $$ C	112	C8H16	003875-51-2	37
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	35

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	3.08 ppbv	1312120	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	72
2	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	56
3	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	56
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	50
5	Cyclobutane, 2-ethyl-1-methyl-3-pro	140	C10H20	061233-72-5	40

****

Peak Number 14 1-Hexene, 4-ethyl- $$ 4-Ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	6.57 ppbv	2800500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 4-ethyl- $$ 4-Ethyl-1-hex	112	C8H16	016746-85-3	64
2	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	60
3	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	59
4	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	49
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	47

****

Peak Number 15 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	10.49 ppbv	4473140	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	90
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	5.96 ppbv	2543050	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	8.47 ppbv	3612270	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91

****

Peak Number 18 Octane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	7.95 ppbv	3391260	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Octane	114	C8H18	000111-65-9	72
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051122.D Vial: 15
Acq On : 6 Apr 2011 12:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	3.15 ppbv	1523880	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
3	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	90
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	3.35 ppbv	1620670	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	81

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 12:33 am
Data File: C:\HPCHEM\1\DATA\040511\04051122.D
Name: 1103389-027B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	3.6	ppbv	886929	ISTD01	10.76	3037830	12.5
Pentane, 2-methyl-	8.77	26.7	ppbv	6500020	ISTD01	10.76	3037830	12.5
Pentane, 3-methyl-	9.09	15.5	ppbv	3762310	ISTD01	10.76	3037830	12.5
Pentane, 2,4-dimethy	10.01	18.4	ppbv	4483520	ISTD01	10.76	3037830	12.5
Cyclopentane, methyl	10.22	42.1	ppbv	10242400	ISTD01	10.76	3037830	12.5
Pentane, 2,3-dimethy	10.96	26.5	ppbv	6451880	ISTD01	10.76	3037830	12.5
Cyclopentane, 1,1-di	11.21	8.4	ppbv	2051560	ISTD01	10.76	3037830	12.5
Pentane, 3-ethyl-	11.30	2.9	ppbv	710497	ISTD01	10.76	3037830	12.5
Hexane, 2,2,5-trimet	11.37	25.1	ppbv	10686800	ISTD02	11.86	5331690	12.5
Cyclopentane, 1,1,3-	12.29	8.0	ppbv	3424940	ISTD02	11.86	5331690	12.5
Cyclohexane, methyl-	12.40	47.1	ppbv	20078400	ISTD02	11.86	5331690	12.5
Cyclopentane, ethyl-	12.57	3.2	ppbv	1372150	ISTD02	11.86	5331690	12.5
Cyclopentane, 1,2,4-	12.63	3.1	ppbv	1312120	ISTD02	11.86	5331690	12.5
1-Hexene, 4-ethyl- $	12.80	6.6	ppbv	2800500	ISTD02	11.86	5331690	12.5
Hexane, 2,5-dimethyl	12.95	10.5	ppbv	4473140	ISTD02	11.86	5331690	12.5
Heptane, 3-methyl-	13.15	6.0	ppbv	2543050	ISTD02	11.86	5331690	12.5
Cyclohexane, 1,3-dim	13.57	8.5	ppbv	3612270	ISTD02	11.86	5331690	12.5
Octane	13.67	8.0	ppbv	3391260	ISTD02	11.86	5331690	12.5
Cyclohexane, 1,2-dim	14.08	3.2	ppbv	1523880	ISTD03	15.72	6043080	12.5
Cyclohexane, ethyl-	14.83	3.4	ppbv	1620670	ISTD03	15.72	6043080	12.5

04051122.D 031611V1.M Thu Apr 14 12:43:12 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:59 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

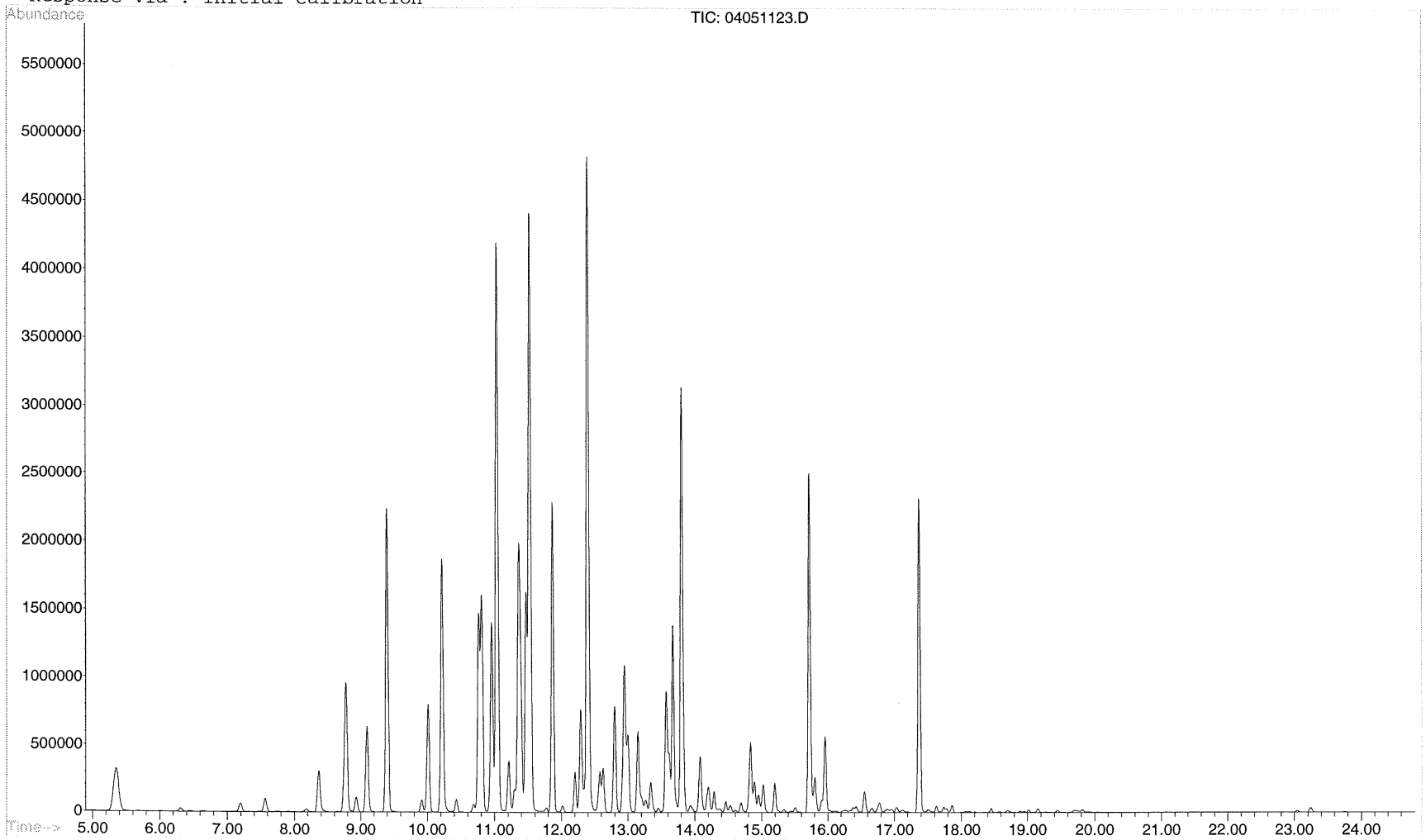
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	714393	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2485732	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1835341	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1132219	12.31	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.48%				
Target Compounds							Qvalue
11) Ethanol	7.76	45	5961	0.50	ppbv	#	65
14) Acetone	8.37	43	613086	6.96	ppbv	#	93
20) n-Hexane	9.39	57	1479579	14.18	ppbv		99
24) 2-Butanone	10.43	43	166805	1.84	ppbv	#	89
29) Cyclohexane	11.03	56	2016300	19.09	ppbv	#	82
31) Benzene	11.47	78	1123625	6.36	ppbv		95
34) Heptane	11.52	43	2047551	17.06	ppbv	#	95
41) Toluene	13.81	91	2993738	15.98	ppbv		99
50) Ethylbenzene	15.80	91	234407	1.10	ppbv		95
51) m,p-Xylene	15.96	91	434213	2.63	ppbv		93
52) o-Xylene	16.55	91	124251	0.77	ppbv	#	88

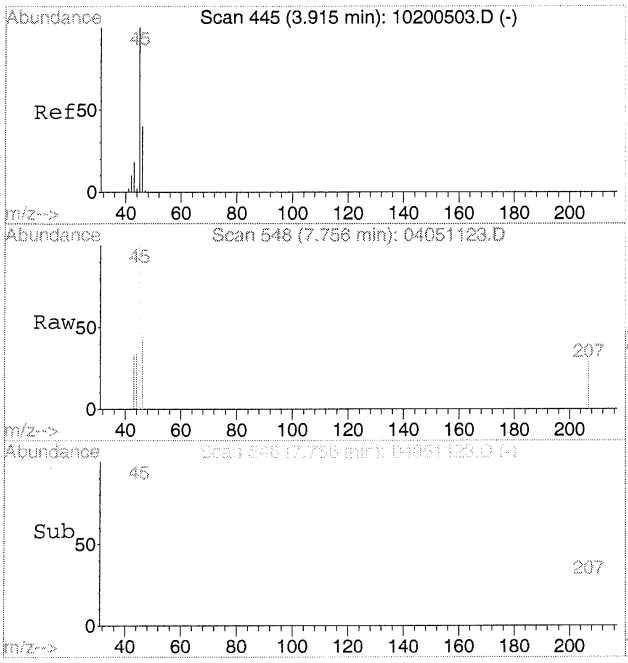
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:59 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

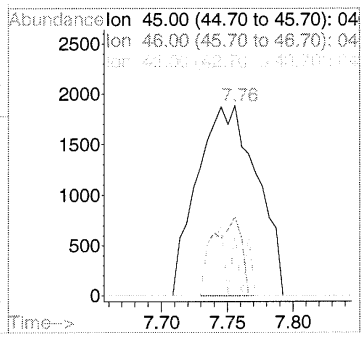


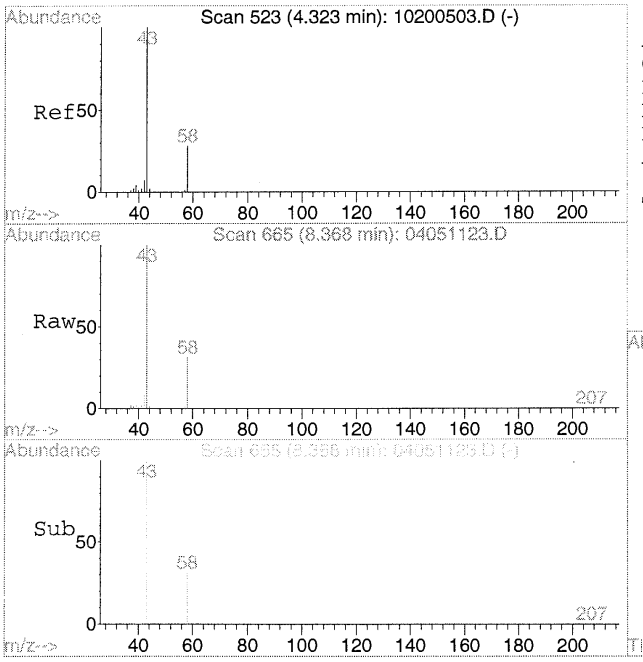


#11
Ethanol
Concen: 0.50 ppbv
RT: 7.76 min Scan# 548
Delta R.T. 0.02 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 45 Resp: 5961

Ion	Ratio	Lower	Upper
45	100		
46	19.7	30.2	45.4#
43	0.0	15.8	23.6#

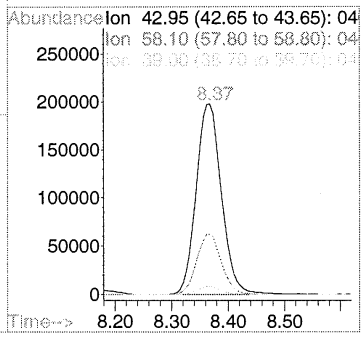


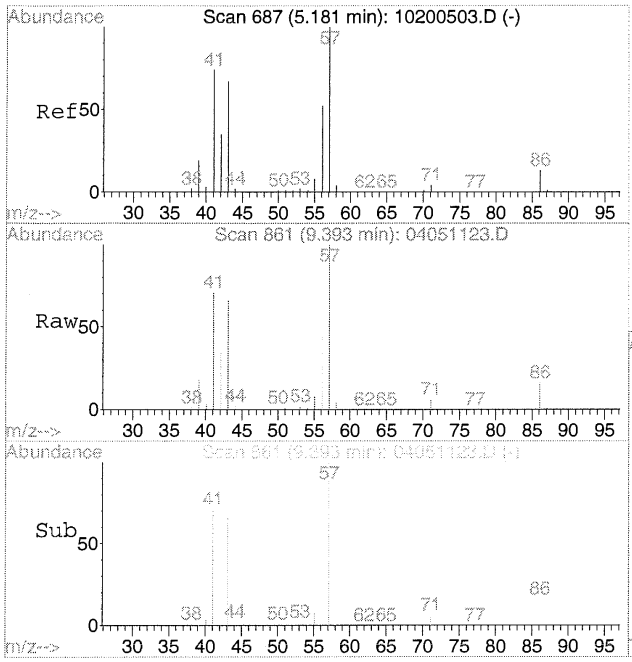


#14
Acetone
Concen: 6.96 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 43 Resp: 613086

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.0	33.0
39	4.1	6.5	9.7#

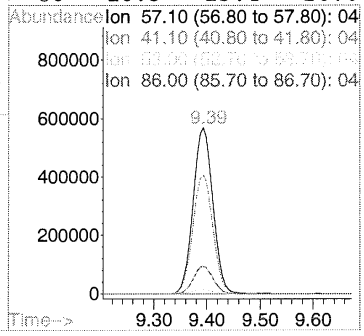


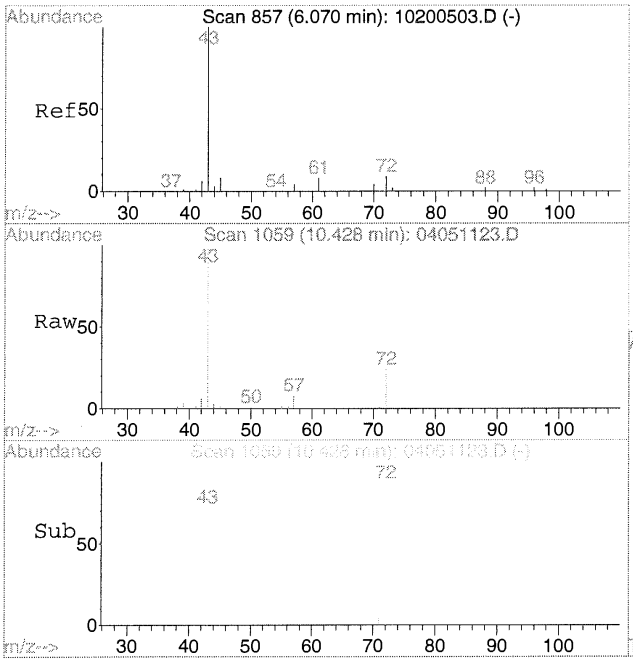


#20
n-Hexane
Concen: 14.18 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 57 Resp: 1479579

Ion	Ratio	Lower	Upper
57	100		
41	72.6	57.2	85.8
53	2.3	1.8	2.8
86	16.3	13.4	20.0

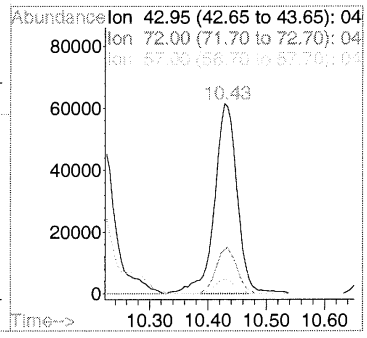


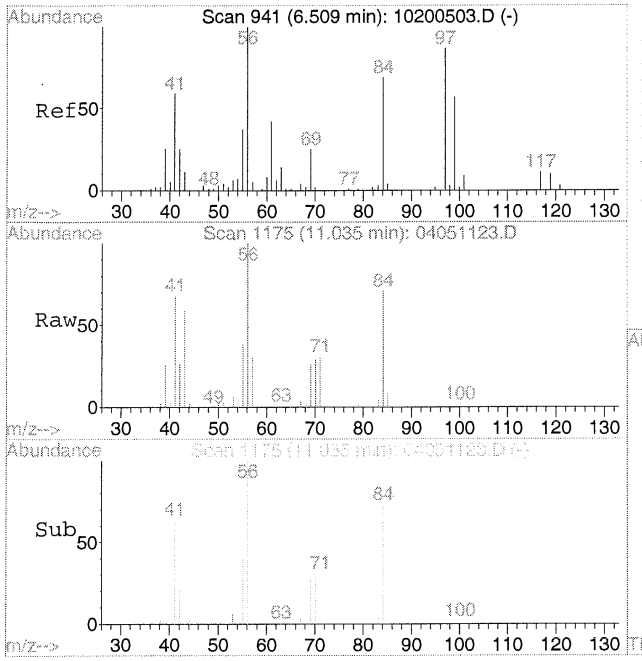


#24
2-Butanone
Concen: 1.84 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 43 Resp: 166805

Ion	Ratio	Lower	Upper
43	100		
72	22.3	23.4	35.2#
57	7.2	6.9	10.3

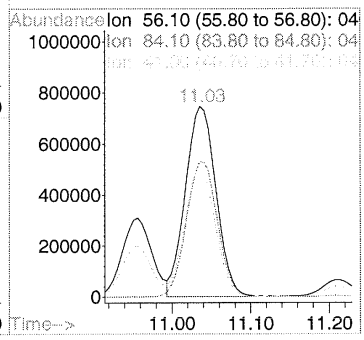


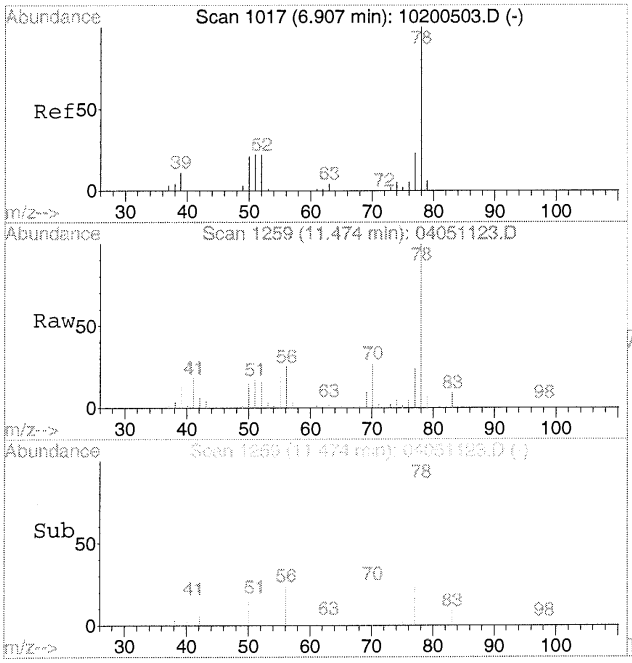


#29
Cyclohexane
Concen: 19.09 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 56 Resp: 2016300

Ion	Ratio	Lower	Upper
56	100		
84	72.9	72.4	108.6
41	67.9	43.8	65.8#

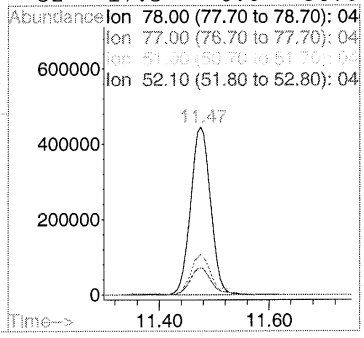


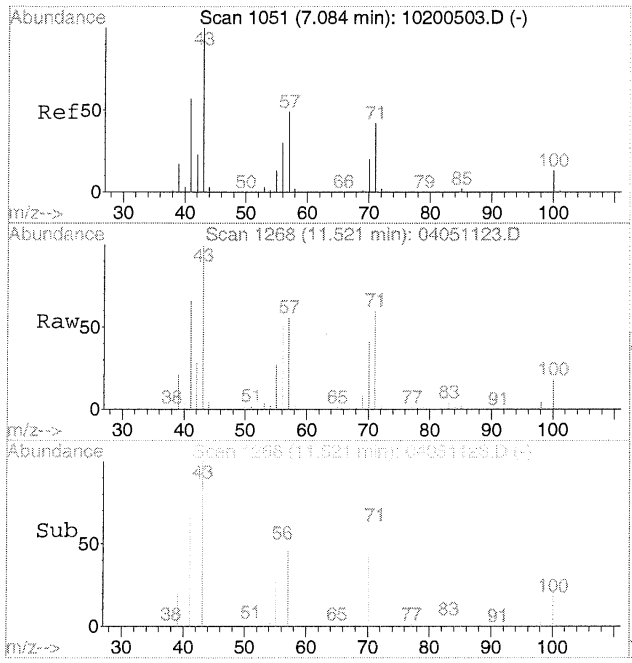


#31
Benzene
Concen: 6.36 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 78 Resp: 1123625

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	20.7	0.0	36.1
52	17.5	0.0	36.0

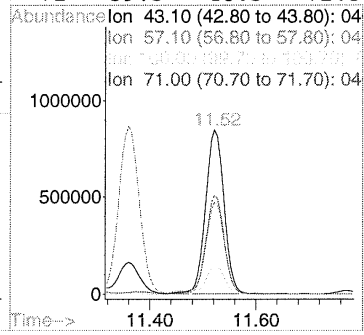


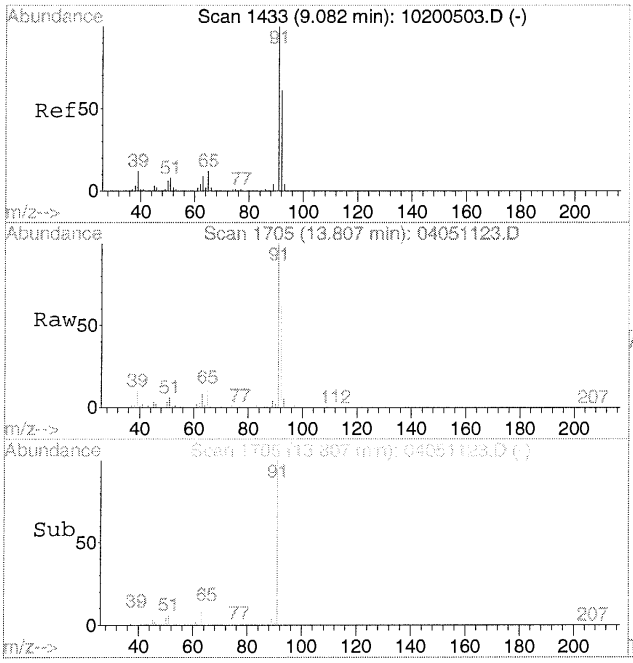


#34
Heptane
Concen: 17.06 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 43 Resp: 2047551

Ion	Ratio	Lower	Upper
43	100		
57	57.7	42.2	63.4
100	17.1	17.3	25.9#
71	59.3	48.3	72.5

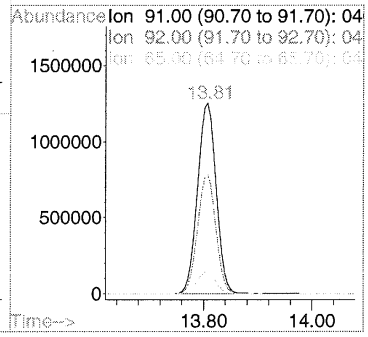


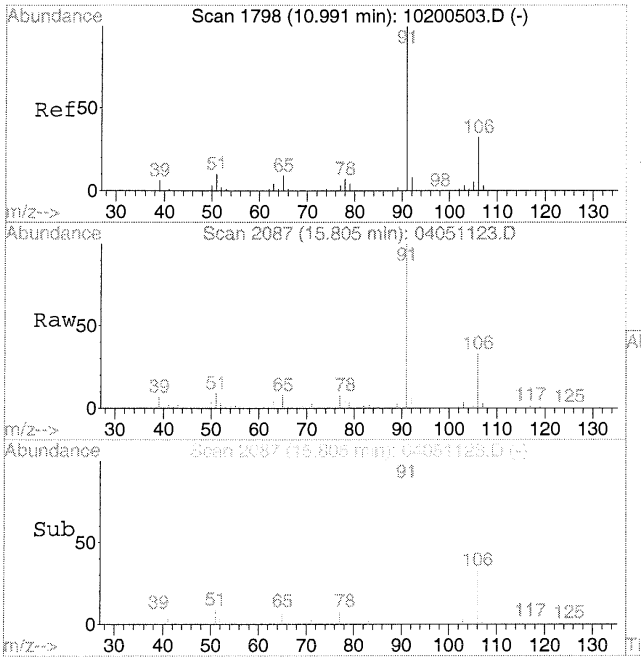


#41
Toluene
Concen: 15.98 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 91 Resp: 2993738

Ion	Ratio	Lower	Upper
91	100		
92	61.2	40.5	80.5
65	11.4	0.0	31.2

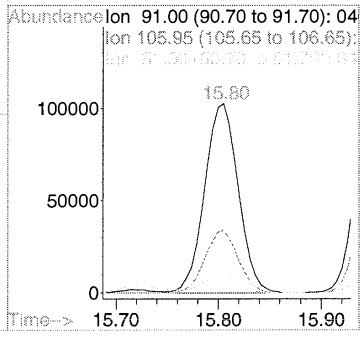


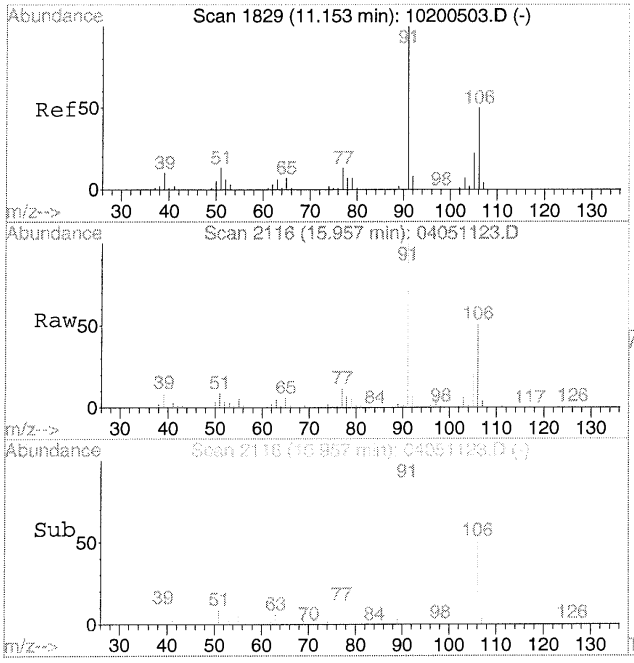


#50
Ethylbenzene
Concen: 1.10 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 91 Resp: 234407

Ion	Ratio	Lower	Upper
91	100		
106	32.4	14.9	54.9
51	10.1	0.0	33.1

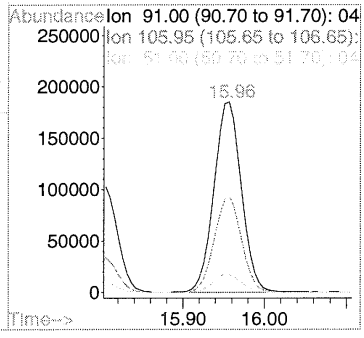


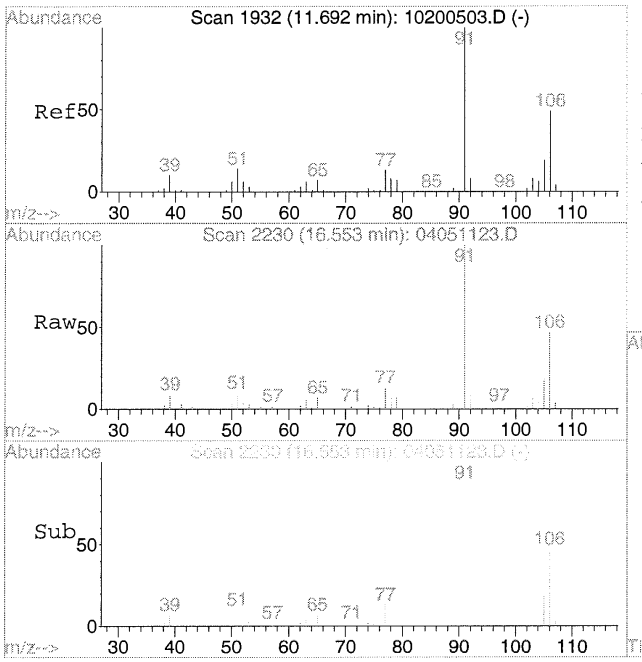


#51
m,p-Xylene
Concen: 2.63 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 91 Resp: 434213

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	9.8	0.0	29.6

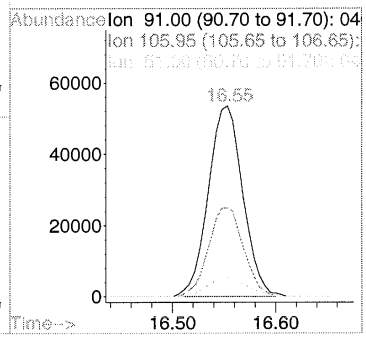




#52
o-Xylene
Concen: 0.77 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051123.D
Acq: 6 Apr 2011 1:18 am

Tgt Ion: 91 Resp: 124251

Ion	Ratio	Lower	Upper
91	100		
106	47.4	41.0	61.6
51	11.6	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.345	62	87	122	rBV	323209	1789242	13.83%	1.388%
2	7.191	427	440	455	rVB2	62907	208763	1.61%	0.162%
3	7.567	491	512	527	rVB	97876	312949	2.42%	0.243%
4	8.368	653	665	688	rVB	307549	958865	7.41%	0.744%
5	8.770	724	742	761	rBV	960619	3090699	23.89%	2.397%
6	8.927	761	772	785	rVB3	111266	323052	2.50%	0.251%
7	9.089	789	803	821	rBV	638066	1803328	13.94%	1.399%
8	9.393	847	861	888	rBV	2237899	5822828	45.00%	4.516%
9	9.916	950	961	968	rBV2	89267	243508	1.88%	0.189%
10	10.010	968	979	996	rVB	799528	2148179	16.60%	1.666%
11	10.214	1004	1018	1044	rBV	1869131	5147562	39.78%	3.993%
12	10.434	1050	1060	1069	rVB	91175	228629	1.77%	0.177%
13	10.690	1098	1109	1113	rBV	59255	145332	1.12%	0.113%
14	10.763	1113	1123	1127	rBV	1438802	3491366	26.98%	2.708%
15	10.957	1147	1160	1166	rBV	1396795	3585589	27.71%	2.781%
16	11.035	1166	1175	1196	rVV	4190035	11276803	87.15%	8.747%
17	11.213	1198	1209	1218	rVV	373211	1001664	7.74%	0.777%
18	11.297	1218	1225	1227	rVV2	162849	324784	2.51%	0.252%
19	11.364	1228	1238	1250	rVV2	1977736	6874360	53.13%	5.332%
20	11.469	1250	1258	1262	rVV3	1618823	3962878	30.63%	3.074%
21	11.521	1262	1268	1295	rVB2	4407806	11373416	87.90%	8.822%
22	11.861	1322	1333	1352	rVV	2282259	5425964	41.93%	4.209%
23	12.201	1386	1398	1405	rBV	299452	698320	5.40%	0.542%
24	12.285	1405	1414	1423	rVV2	762007	2088761	16.14%	1.620%
25	12.395	1424	1435	1457	rVV	4827327	12939693	100.00%	10.037%
26	12.573	1457	1469	1474	rVV3	304943	857116	6.62%	0.665%
27	12.625	1474	1479	1493	rVB	328805	795567	6.15%	0.617%
28	12.798	1500	1512	1526	rBV2	787911	2060625	15.92%	1.598%
29	12.944	1526	1540	1547	rBV3	1085884	3259669	25.19%	2.528%
30	13.148	1568	1579	1596	rBV2	597126	1783044	13.78%	1.383%
31	13.268	1597	1602	1608	rVV2	83166	203933	1.58%	0.158%
32	13.341	1608	1616	1630	rVB	216642	586808	4.53%	0.455%
33	13.572	1645	1660	1673	rBV	891242	3152377	24.36%	2.445%
34	13.671	1673	1679	1693	rVV	1370418	3151903	24.36%	2.445%
35	13.807	1693	1705	1721	rVB	3133170	7865423	60.79%	6.101%
36	13.938	1721	1730	1743	rVB6	44123	145216	1.12%	0.113%
37	14.079	1743	1757	1769	rBV2	410382	1109249	8.57%	0.860%
38	14.199	1769	1780	1790	rBV3	171475	493218	3.81%	0.383%
39	14.288	1790	1797	1805	rVB	133226	276764	2.14%	0.215%
40	14.461	1821	1830	1837	rBV	78407	181461	1.40%	0.141%
41	14.686	1865	1873	1887	rBV2	71370	181828	1.41%	0.141%
42	14.827	1887	1900	1907	rVV	518599	1415426	10.94%	1.098%
43	14.884	1907	1911	1918	rVV2	223818	539872	4.17%	0.419%

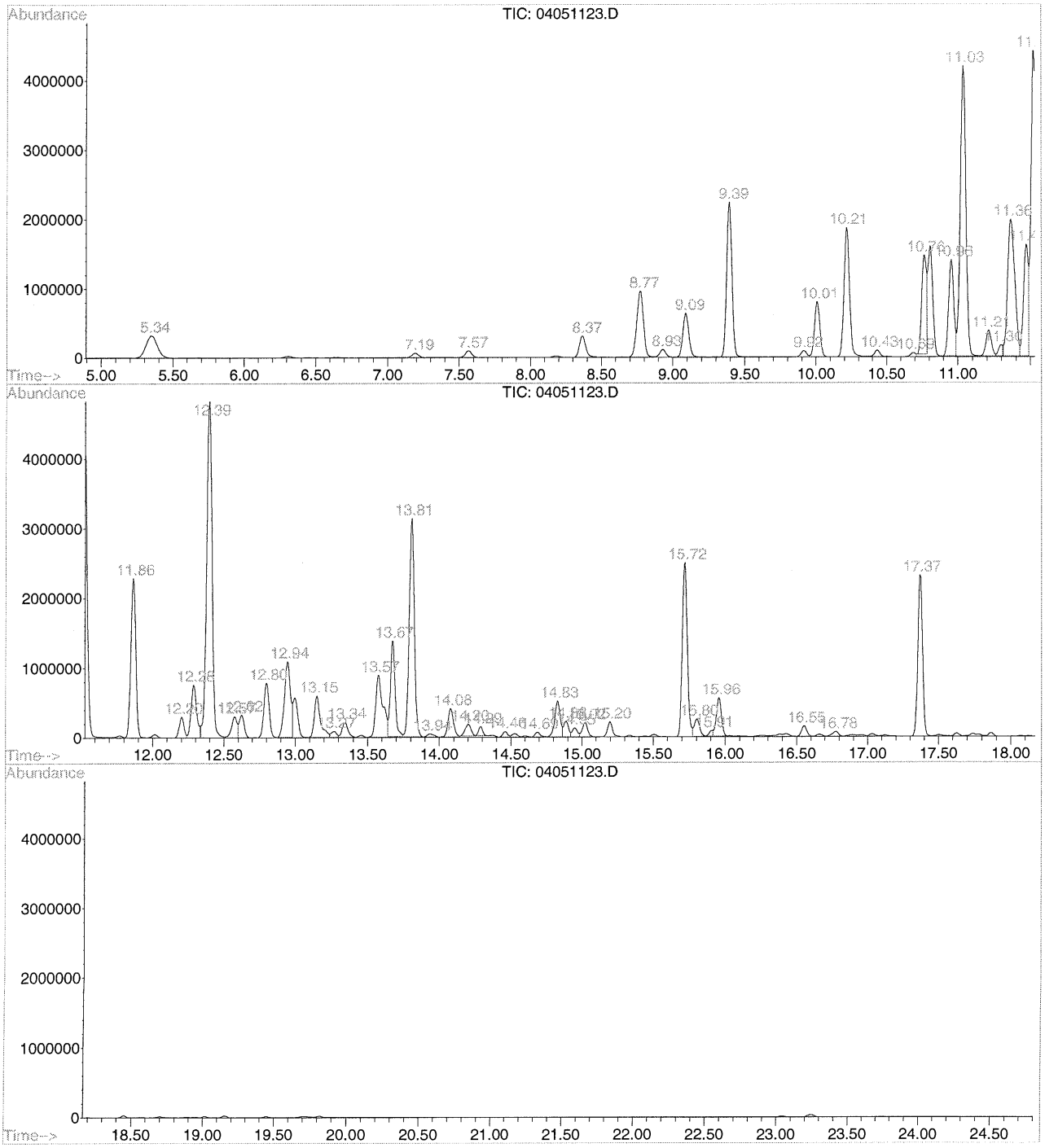
44	14.947	1918	1923	1930	rVV2	129378	333012	2.57%	0.258%
45	15.020	1930	1937	1954	rVB2	205723	541196	4.18%	0.420%
46	15.198	1958	1971	1989	rBV	217105	548942	4.24%	0.426%
47	15.721	2059	2071	2081	rBV	2497828	6051840	46.77%	4.694%
48	15.805	2081	2087	2099	rVV	253026	649135	5.02%	0.504%
49	15.909	2099	2107	2108	rVV2	82063	151515	1.17%	0.118%
50	15.957	2108	2116	2127	rVB	550522	1360297	10.51%	1.055%
51	16.553	2219	2230	2241	rVB	151853	383474	2.96%	0.297%
52	16.778	2260	2273	2282	rVB6	66976	204797	1.58%	0.159%
53	17.369	2373	2386	2402	rBV	2314241	5373983	41.53%	4.168%

Sum of corrected areas: 128924224

04051123.D 031611V1.M Thu Apr 14 12:43:54 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051123.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 1:18 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-028B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 16
Quant File :031611V1.RES (RTE Integrator)



04051123.D 031611V1.M Thu Apr 14 12:43:54 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.34	6.41 ppbv	1789240	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- $$ Isohexan Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	11.07 ppbv	3090700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	59

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	6.46 ppbv	1803330	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	78
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	7.69 ppbv	2148180	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	18.43 ppbv	5147560	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	58
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	12.84 ppbv	3585590	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, 1,1-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	3.59 ppbv	1001660	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	64
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
4	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	50
5	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	38

****

Peak Number 8 Butane, 2,2,3,3-tetramethyl- $ Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	15.84 ppbv	6874360	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	64
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	59
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	59
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	53

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	1.61 ppbv	698320	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	50
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.81 ppbv	2088760	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	43
2	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	40
3	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	40
4	Ether, heptyl hexyl	200	C13H28O	007289-40-9	38
5	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	38

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	29.81 ppbv	12939700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	1.97 ppbv	857116	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	56
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	1.83 ppbv	795567	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	72
2	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	56
3	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	56
4	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	45
5	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	39

****

Peak Number 14 Heptane, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	4.75 ppbv	2060630	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
2	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	60
3	1-Hexene, 4-ethyl- $$ 4-Ethyl-1-hex	112	C8H16	016746-85-3	58
4	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	53
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	52

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	7.51 ppbv	3259670	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	83
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	80
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	62

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	4.11 ppbv	1783040	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	72
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	43

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	7.26 ppbv	3152380	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91

****

Peak Number 18 Octane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	7.26 ppbv	3151900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Octane	114	C8H18	000111-65-9	72

Data File : C:\HPCHEM\1\DATA\040511\04051123.D Vial: 16
Acq On : 6 Apr 2011 1:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 20000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	2.29 ppbv	1109250	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
3	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	90
4	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	2.92 ppbv	1415430	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	87
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	76

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 1:18 am
Data File: C:\HPCHEM\1\DATA\040511\04051123.D
Name: 1103389-028B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.34	6.4	ppbv	1789240	ISTD01	10.76	3491370	12.5
Pentane, 2-methyl- $	8.77	11.1	ppbv	3090700	ISTD01	10.76	3491370	12.5
Pentane, 3-methyl-	9.09	6.5	ppbv	1803330	ISTD01	10.76	3491370	12.5
Pentane, 2,4-dimethy	10.01	7.7	ppbv	2148180	ISTD01	10.76	3491370	12.5
Cyclopentane, methyl	10.21	18.4	ppbv	5147560	ISTD01	10.76	3491370	12.5
Pentane, 2,3-dimethy	10.96	12.8	ppbv	3585590	ISTD01	10.76	3491370	12.5
Cyclopentane, 1,1-di	11.21	3.6	ppbv	1001660	ISTD01	10.76	3491370	12.5
Butane, 2,2,3,3-tetr	11.36	15.8	ppbv	6874360	ISTD02	11.86	5425960	12.5
Hexane, 2,5-dimethyl	12.20	1.6	ppbv	698320	ISTD02	11.86	5425960	12.5
Cyclopentane, 1,1-di	12.29	4.8	ppbv	2088760	ISTD02	11.86	5425960	12.5
Cyclohexane, methyl-	12.39	29.8	ppbv	12939700	ISTD02	11.86	5425960	12.5
Cyclopentane, ethyl-	12.57	2.0	ppbv	857116	ISTD02	11.86	5425960	12.5
Cyclopentane, 1,2,4-	12.63	1.8	ppbv	795567	ISTD02	11.86	5425960	12.5
Heptane, 4-methyl-	12.80	4.7	ppbv	2060630	ISTD02	11.86	5425960	12.5
Heptane, 2-methyl-	12.94	7.5	ppbv	3259670	ISTD02	11.86	5425960	12.5
Heptane, 3-methyl-	13.15	4.1	ppbv	1783040	ISTD02	11.86	5425960	12.5
Cyclohexane, 1,3-dim	13.57	7.3	ppbv	3152380	ISTD02	11.86	5425960	12.5
Octane	13.67	7.3	ppbv	3151900	ISTD02	11.86	5425960	12.5
Cyclohexane, 1,2-dim	14.08	2.3	ppbv	1109250	ISTD03	15.72	6051840	12.5
Cyclohexane, ethyl-	14.83	2.9	ppbv	1415430	ISTD03	15.72	6051840	12.5

04051123.D 031611V1.M Thu Apr 14 12:43:55 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:03 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

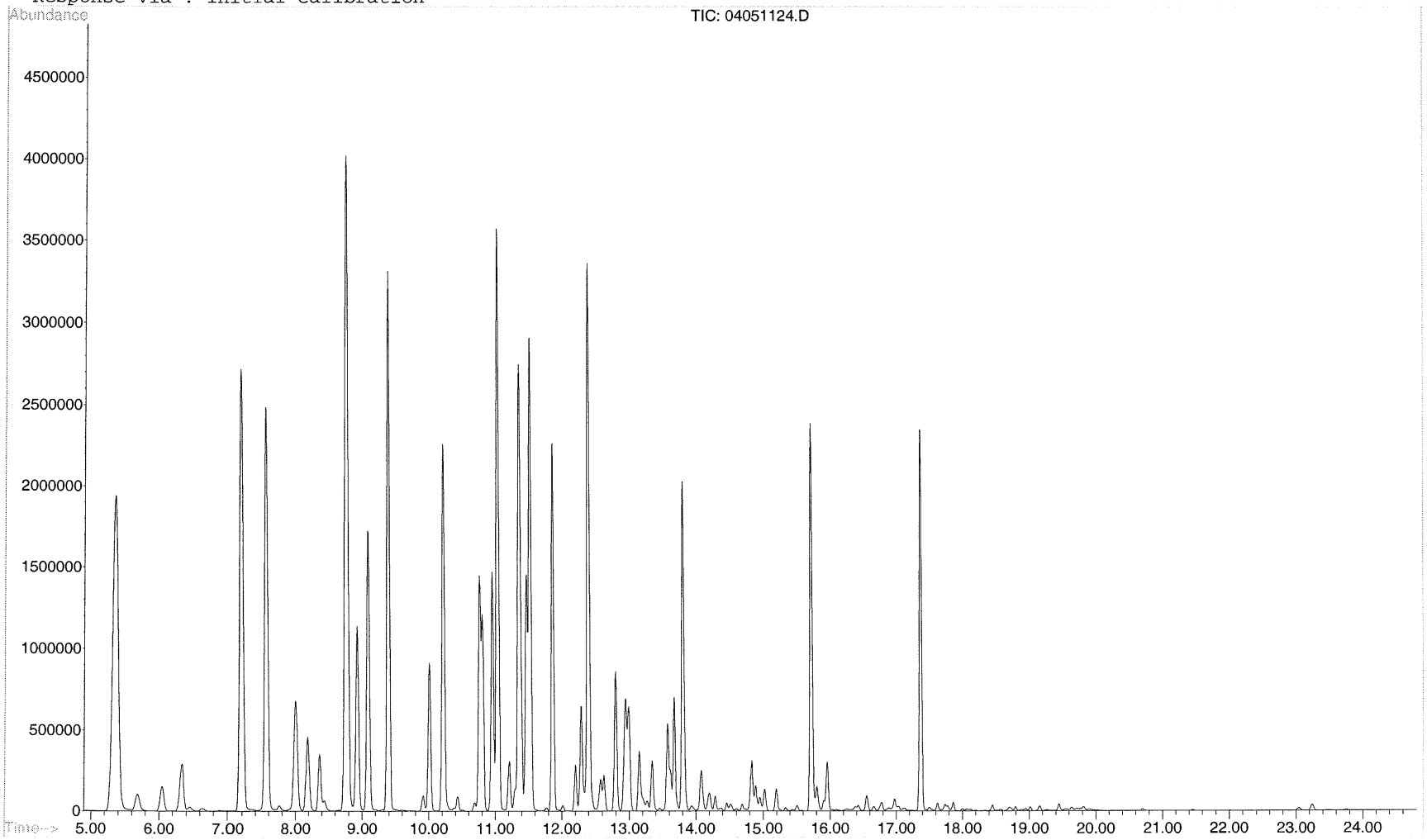
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	666828	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2427606	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1793204	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1145455	12.74	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.92%				
Target Compounds							Qvalue
2) Propylene	5.67	41	32230	0.64	ppbv	#	81
11) Ethanol	7.75	45	34761	3.14	ppbv	#	83
14) Acetone	8.36	43	710277	8.64	ppbv	#	94
16) 2-Propanol	8.43	45	110560	1.87	ppbv	#	1
17) Methylene chloride	8.93	49	478536	7.13	ppbv		96
20) n-Hexane	9.39	57	2187880	22.47	ppbv		100
24) 2-Butanone	10.43	43	147226	1.74	ppbv		92
29) Cyclohexane	11.03	56	1757009	17.82	ppbv	#	83
31) Benzene	11.47	78	1131212	6.86	ppbv		96
34) Heptane	11.52	43	1276036	10.88	ppbv	#	95
41) Toluene	13.81	91	1895330	10.36	ppbv		100
50) Ethylbenzene	15.80	91	132228	0.63	ppbv		93
51) m,p-Xylene	15.96	91	223187	1.38	ppbv		94

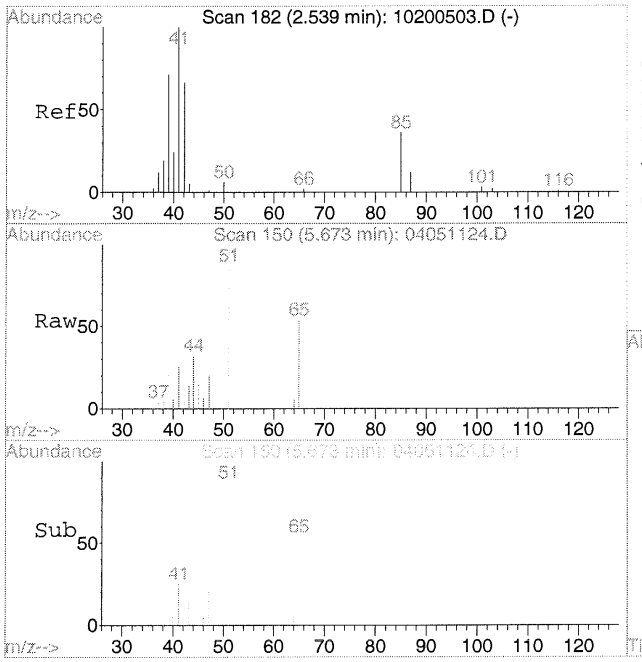
(#) = qualifier out of range (m) = manual integration
04051124.D 031611V1.M Thu Apr 14 12:44:03 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:03 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

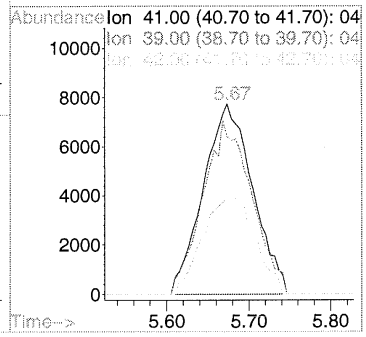


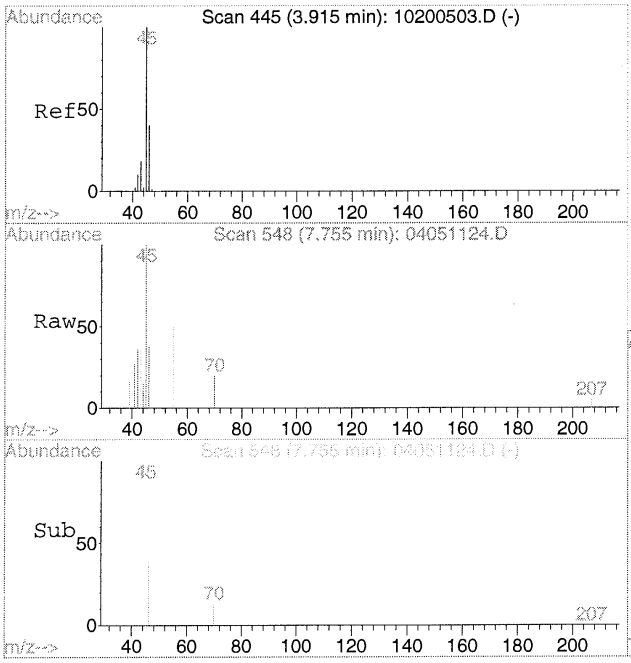


#2
Propylene
Concen: 0.64 ppbv
RT: 5.67 min Scan# 150
Delta R.T. -0.01 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 41 Resp: 32230

Ion	Ratio	Lower	Upper
41	100		
39	89.8	57.6	86.4#
42	54.1	54.0	81.0

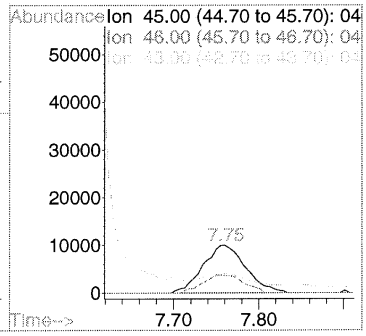


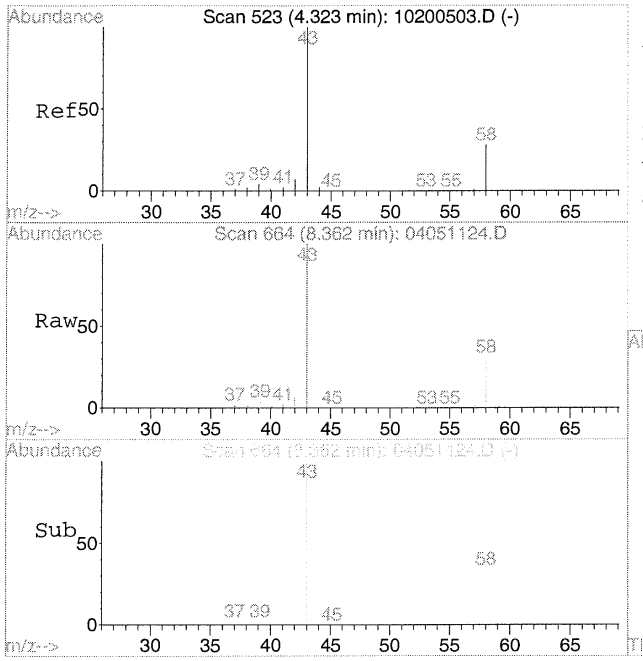


#11
Ethanol
Concen: 3.14 ppbv
RT: 7.75 min Scan# 548
Delta R.T. 0.02 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 45 Resp: 34761

Ion	Ratio	Lower	Upper
45	100		
46	36.0	30.2	45.4
43	0.0	15.8	23.6#

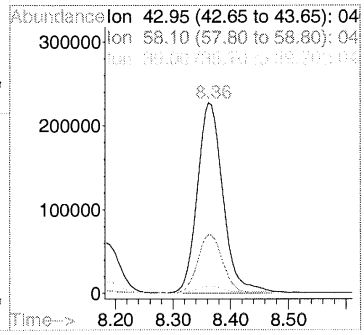


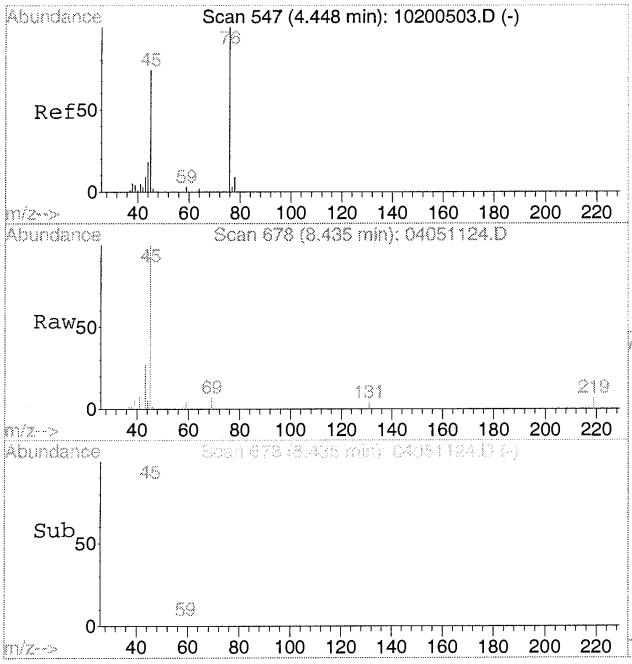


#14
Acetone
Concen: 8.64 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 43 Resp: 710277

Ion	Ratio	Lower	Upper
43	100		
58	30.0	22.0	33.0
39	4.0	6.5	9.7#

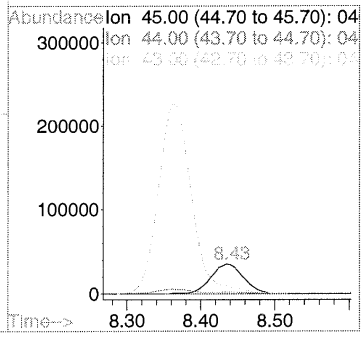


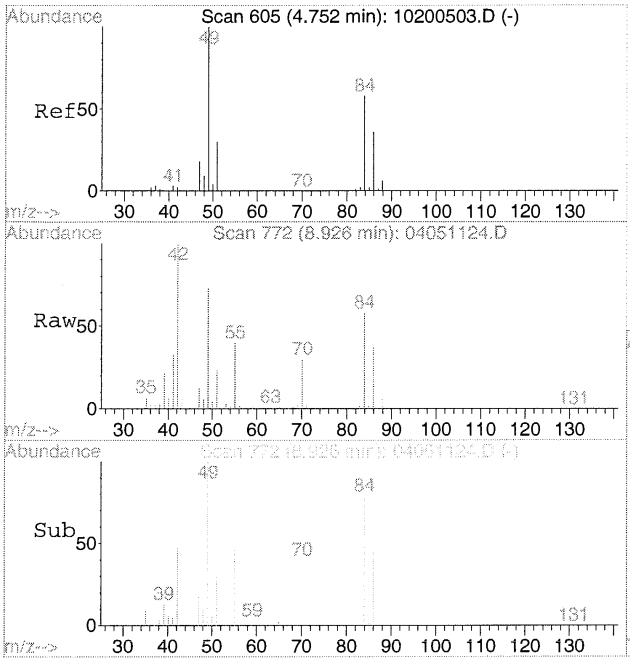


#16
2-Propanol
Concen: 1.87 ppbv
RT: 8.43 min Scan# 678
Delta R.T. 0.03 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 45 Resp: 110560

Ion	Ratio	Lower	Upper
45	100		
44	0.0	5.2	7.8#
43	0.0	101.1	151.7#

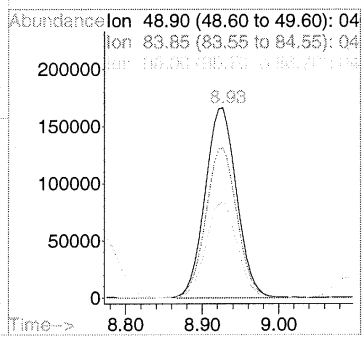


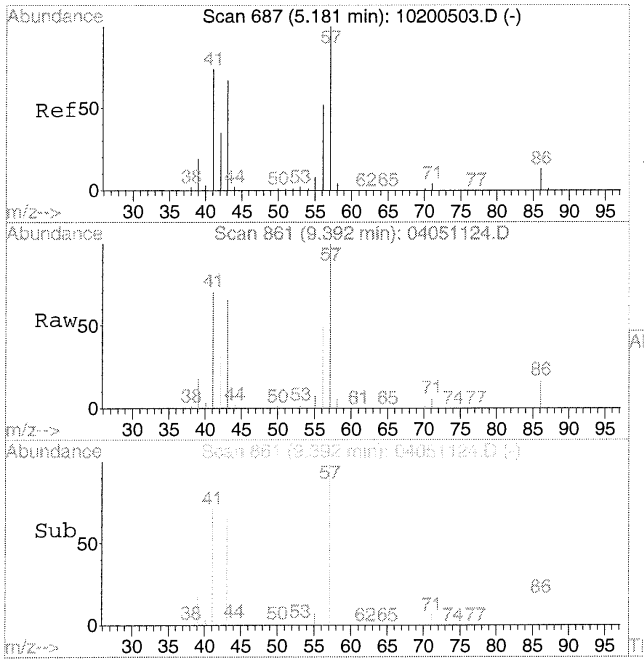


#17
Methylene chloride
Concen: 7.13 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 49 Resp: 478536

Ion	Ratio	Lower	Upper
49	100		
84	78.4	65.4	98.2
86	50.5	42.3	63.5

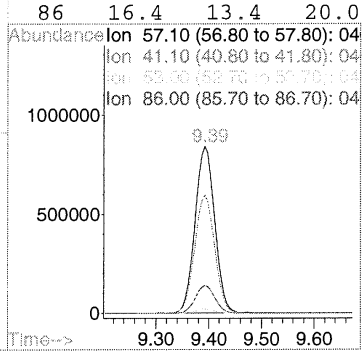


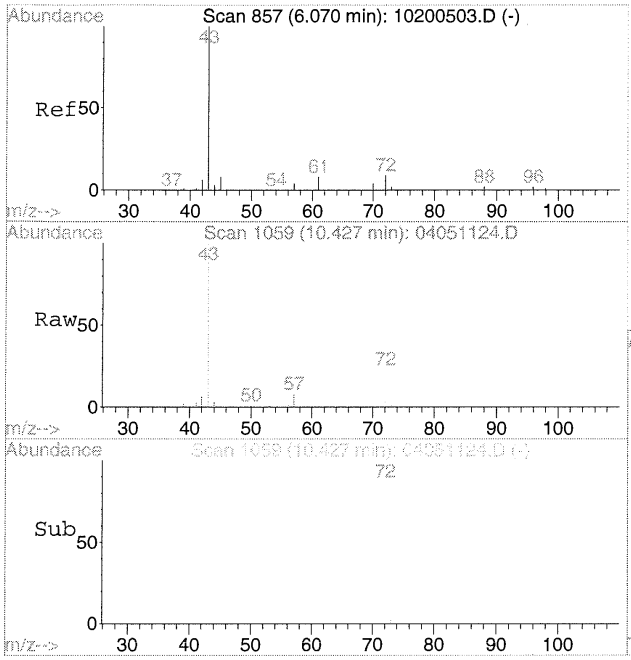


#20
n-Hexane
Concen: 22.47 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 57 Resp: 2187880

Ion	Ratio	Lower	Upper
57	100		
41	71.2	57.2	85.8
53	2.3	1.8	2.8
86	16.4	13.4	20.0

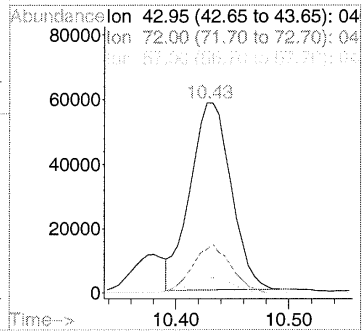


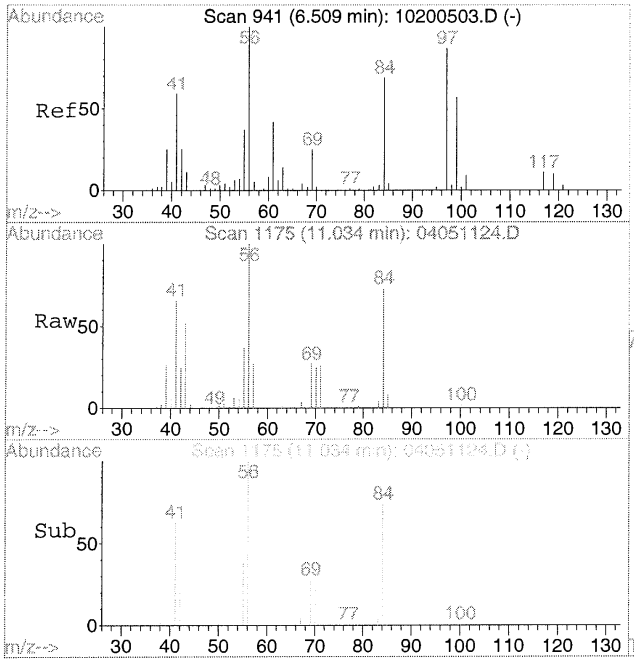


#24
2-Butanone
Concen: 1.74 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 43 Resp: 147226

Ion	Ratio	Lower	Upper
43	100		
72	24.2	23.4	35.2
57	8.2	6.9	10.3

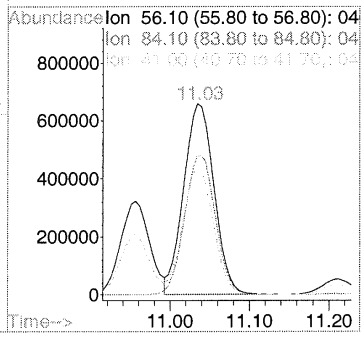


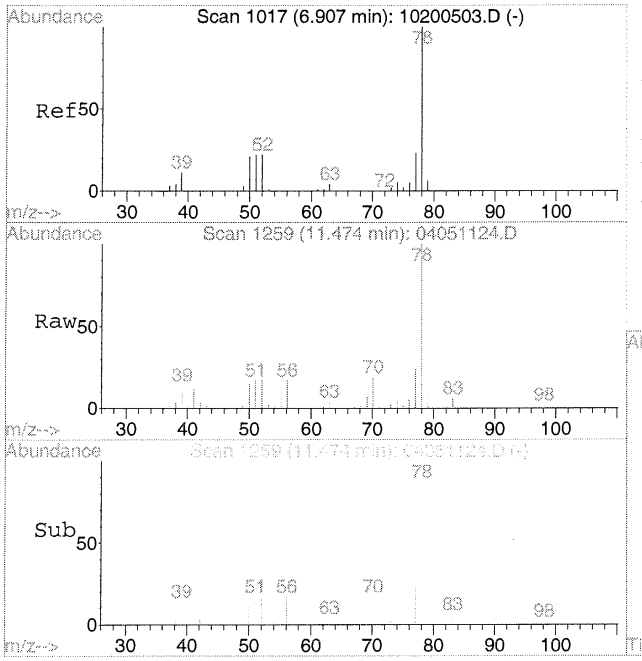


#29
Cyclohexane
Concen: 17.82 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 56 Resp: 1757009

Ion	Ratio	Lower	Upper
56	100		
84	74.2	72.4	108.6
41	66.8	43.8	65.8#

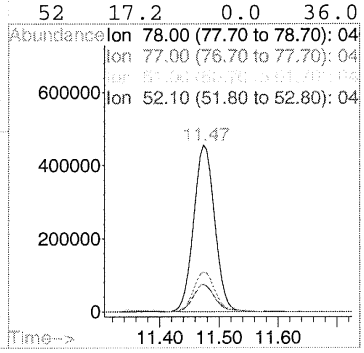


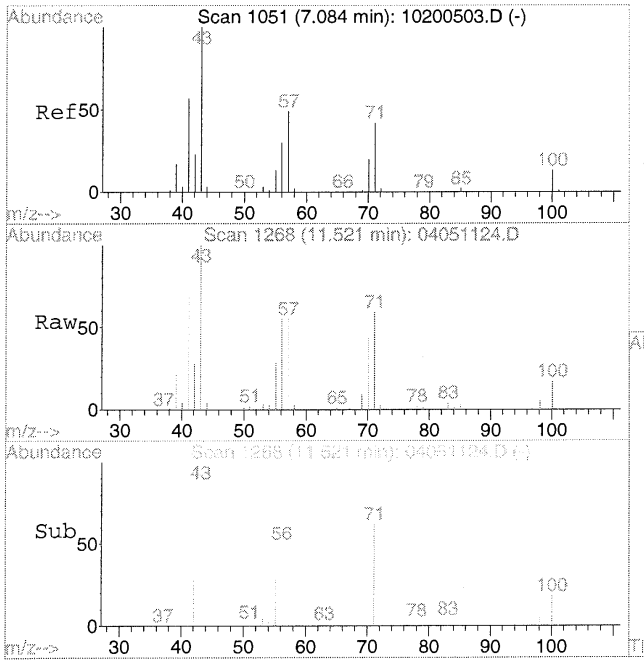


#31
Benzene
Concen: 6.86 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 78 Resp: 1131212

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	19.3	0.0	36.1
52	17.2	0.0	36.0

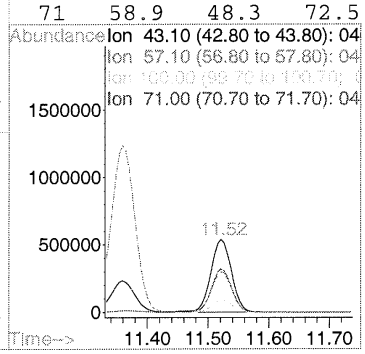


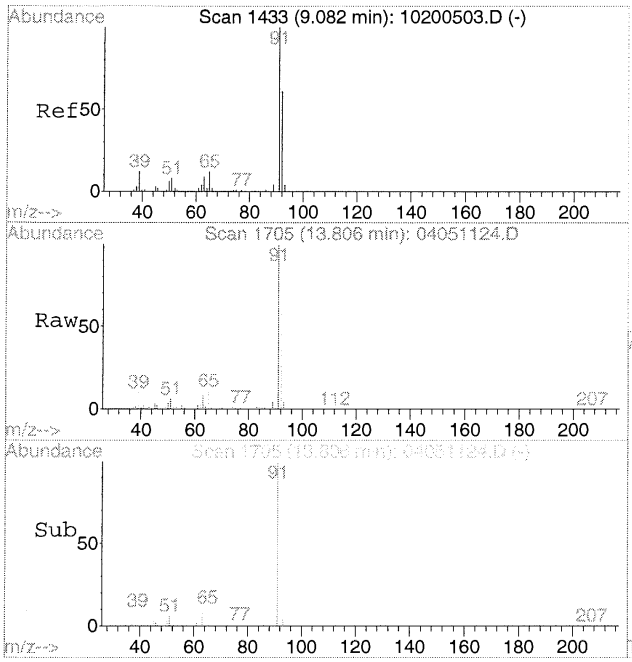


#34
Heptane
Concen: 10.88 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 43 Resp: 1276036

Ion	Ratio	Lower	Upper
43	100		
57	57.9	42.2	63.4
100	16.7	17.3	25.9#
71	58.9	48.3	72.5

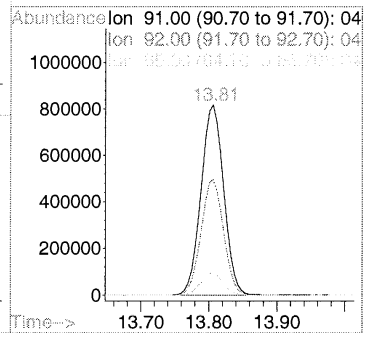


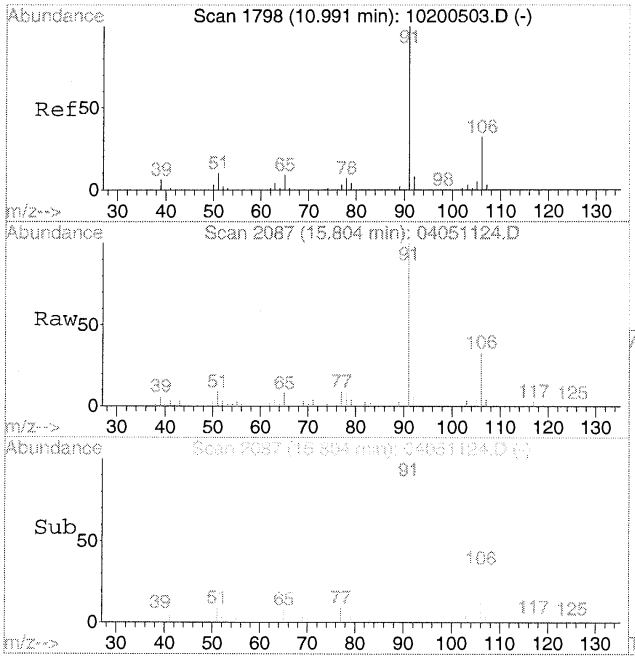


#41
Toluene
Concen: 10.36 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 91 Resp: 1895330

Ion	Ratio	Lower	Upper
91	100		
92	60.2	40.5	80.5
65	11.4	0.0	31.2

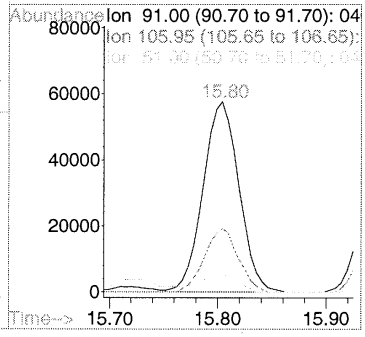


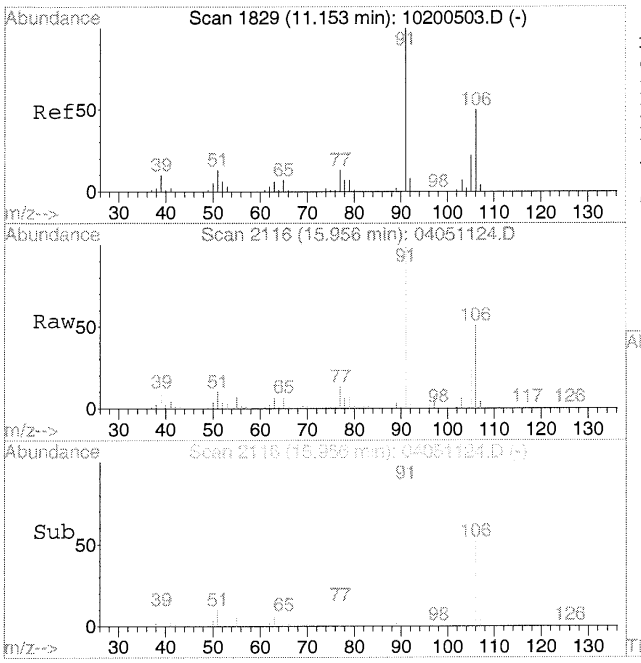


#50
Ethylbenzene
Concen: 0.63 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 91 Resp: 132228

Ion	Ratio	Lower	Upper
91	100		
106	31.4	14.9	54.9
51	9.8	0.0	33.1

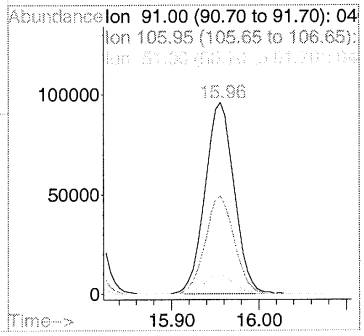




#51
m,p-Xylene
Concen: 1.38 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051124.D
Acq: 6 Apr 2011 2:04 am

Tgt Ion: 91 Resp: 223187

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.6	75.6
51	10.0	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.349	58	88	126	rBV	1937921	11135979	80.71%	6.899%
2	5.684	137	152	185	rVB4	102919	492340	3.57%	0.305%
3	6.045	205	221	237	rBV3	151252	597667	4.33%	0.370%
4	6.338	254	277	291	rBV3	295258	1170922	8.49%	0.725%
5	7.190	423	440	466	rBV	2717151	9666663	70.06%	5.989%
6	7.561	489	511	537	rBV	2481389	8214057	59.54%	5.089%
7	8.006	571	596	615	rBV2	676364	2599749	18.84%	1.611%
8	8.184	615	630	652	rVB	456884	1592958	11.55%	0.987%
9	8.362	652	664	674	rBV	351370	1069752	7.75%	0.663%
10	8.770	724	742	760	rBV3	4015707	13796835	100.00%	8.547%
11	8.926	760	772	789	rVV2	1129512	3297777	23.90%	2.043%
12	9.089	790	803	822	rVB	1714860	4873435	35.32%	3.019%
13	9.392	848	861	883	rBV	3304766	8558583	62.03%	5.302%
14	9.915	949	961	968	rBV	94962	263969	1.91%	0.164%
15	10.009	968	979	999	rVB	909565	2465269	17.87%	1.527%
16	10.218	1003	1019	1044	rBV	2256947	6193575	44.89%	3.837%
17	10.433	1053	1060	1070	rVB	87067	213580	1.55%	0.132%
18	10.762	1113	1123	1128	rBV	1414867	3624146	26.27%	2.245%
19	10.956	1147	1160	1167	rBV	1463514	3807511	27.60%	2.359%
20	11.034	1167	1175	1197	rVV	3564465	9451577	68.51%	5.855%
21	11.212	1197	1209	1218	rVV	302946	815988	5.91%	0.506%
22	11.301	1218	1226	1227	rVV2	131774	256211	1.86%	0.159%
23	11.358	1227	1237	1250	rVV	2739502	8613905	62.43%	5.337%
24	11.474	1250	1259	1262	rVV2	1445971	3390752	24.58%	2.101%
25	11.526	1263	1269	1289	rVB2	2901838	7261009	52.63%	4.498%
26	11.866	1323	1334	1353	rVV	2257650	5348613	38.77%	3.314%
27	12.201	1386	1398	1406	rBV	284727	680531	4.93%	0.422%
28	12.284	1406	1414	1424	rVV	642835	1762440	12.77%	1.092%
29	12.394	1425	1435	1457	rVV	3355064	8808134	63.84%	5.457%
30	12.577	1457	1470	1474	rVV3	195325	562556	4.08%	0.349%
31	12.624	1474	1479	1493	rVB	221667	526405	3.82%	0.326%
32	12.797	1500	1512	1526	rBV2	856618	2210987	16.03%	1.370%
33	12.943	1526	1540	1545	rBV3	687241	2096036	15.19%	1.299%
34	13.147	1568	1579	1597	rBV2	368138	1181905	8.57%	0.732%
35	13.267	1597	1602	1608	rVV3	60008	152191	1.10%	0.094%
36	13.341	1608	1616	1630	rVB	306919	789926	5.73%	0.489%
37	13.576	1645	1661	1667	rBV2	531446	1465009	10.62%	0.908%
38	13.675	1673	1680	1693	rVB	678868	1530349	11.09%	0.948%
39	13.806	1693	1705	1722	rVB	2018120	4997238	36.22%	3.096%
40	14.078	1741	1757	1769	rBV2	246881	707663	5.13%	0.438%
41	14.198	1769	1780	1790	rVV6	98279	292401	2.12%	0.181%
42	14.287	1790	1797	1805	rVB2	80000	159178	1.15%	0.099%
43	14.826	1888	1900	1907	rBV	304194	813643	5.90%	0.504%

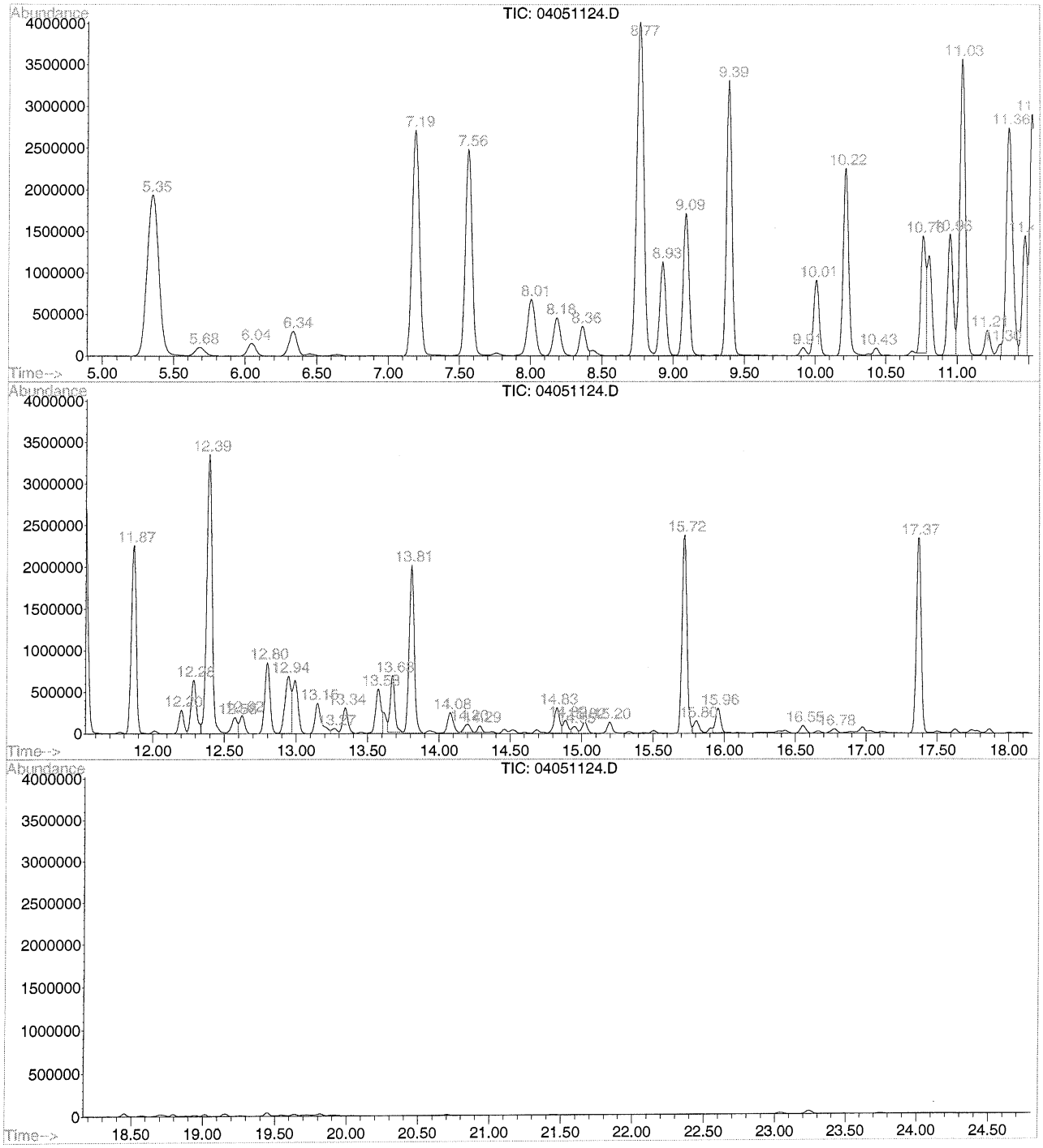
44	14.889	1907	1912	1919	rVV	152298	371998	2.70%	0.230%
45	14.952	1919	1924	1929	rVV5	81441	187558	1.36%	0.116%
46	15.020	1929	1937	1951	rVB2	134624	358083	2.60%	0.222%
47	15.197	1959	1971	1989	rBV2	135361	350330	2.54%	0.217%
48	15.720	2057	2071	2081	rBV	2383461	5684721	41.20%	3.522%
49	15.804	2082	2087	2099	rVV	148676	374430	2.71%	0.232%
50	15.956	2109	2116	2127	rVB	294391	721330	5.23%	0.447%
51	16.552	2220	2230	2241	rBV2	93340	242788	1.76%	0.150%
52	16.777	2260	2273	2282	rBV7	49852	151890	1.10%	0.094%
53	17.368	2368	2386	2402	rBV	2342833	5461505	39.59%	3.384%

Sum of corrected areas: 161414047

04051124.D 031611V1.M Thu Apr 14 12:44:08 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051124.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 2:04 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-038A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 1
Quant File :031611V1.RES (RTE Integrator)



04051124.D 031611V1.M Thu Apr 14 12:44:08 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	38.41 ppbv	11136000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	4.04 ppbv	1170920	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	80
2	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	72
3	1-Propen-2-ol, acetate $$ Isopropen	100	C5H8O2	000108-22-5	45
4	2,3-Butanedione, monooxime $$ Biace	101	C4H7NO2	000057-71-6	9
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	9

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	33.34 ppbv	9666660	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl- $$ Propene, 2-	56	C4H8	000115-11-7	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	28.33 ppbv	8214060	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	42
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

****

Peak Number 5 1-Propene, 1,3,3-trifluoro-1,2 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.01	8.97 ppbv	2599750	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 1,3,3-trifluoro-1,2,3-tr	214	C6F6N2	000000-00-0	5
2	2-Butenoic acid, methyl ester $$ Cr	100	C5H8O2	018707-60-3	5
3	Phenethenyl hydrocyanic ether, 3,4,	219	C12H13NO3	112369-99-0	4
4	Ethyl .alpha.-fluoro-3-cyano-cinnam	219	C12H10FNO2	000000-00-0	4
5	2-Butenoic acid, methyl ester, (E)-	100	C5H8O2	000623-43-8	4

****

Peak Number 6 Butane, 2,2-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	5.49 ppbv	1592960	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	25
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	22
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	22
4	Cis-3-methylpent-3-ene-5-ol	100	C6H12O	030804-75-2	14
5	Azetidine, 2-methyl-	71	C4H9N	019812-49-8	10

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	47.59 ppbv	13796800	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	70
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58

****

Peak Number 8 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	16.81 ppbv	4873440	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 9 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	8.50 ppbv	2465270	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, methyl- $$ Methy Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	21.36 ppbv	6193580	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

****

Peak Number 11 Pentane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	13.13 ppbv	3807510	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 12 Cyclopentane, 1,1-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.81 ppbv	815988	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	59
3	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	46
4	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,2-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	20.13 ppbv	8613910	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	64
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64

****

Peak Number 14 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	4.12 ppbv	1762440	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
5	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38

****

Peak Number 15 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	20.59 ppbv	8808130	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	5.17 ppbv	2210990	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	59

****

Peak Number 17 Heptane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	4.90 ppbv	2096040	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	76
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	68
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.76 ppbv	1181910	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	83
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	53
5	Hexane, 2-methyl- $$ 2-Methylhexane	100	C7H16	000591-76-4	53

Data File : C:\HPCHEM\1\DATA\040511\04051124.D Vial: 1
Acq On : 6 Apr 2011 2:04 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-038A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 24.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.42 ppbv	1465010	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 20 Octane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	3.58 ppbv	1530350	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Octane	114	C8H18	000111-65-9	72

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 2:04 am
Data File: C:\HPCHEM\1\DATA\040511\04051124.D
Name: 1103389-038A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	38.4	ppbv	11136000	ISTD01	10.76	3624150	12.5
Butane	6.34	4.0	ppbv	1170920	ISTD01	10.76	3624150	12.5
Butane, 2-methyl-	7.19	33.3	ppbv	9666660	ISTD01	10.76	3624150	12.5
Pentane	7.56	28.3	ppbv	8214060	ISTD01	10.76	3624150	12.5
1-Propene, 1,3,3-tri	8.01	9.0	ppbv	2599750	ISTD01	10.76	3624150	12.5
Butane, 2,2-dimethyl	8.18	5.5	ppbv	1592960	ISTD01	10.76	3624150	12.5
Pentane, 2-methyl-	8.77	47.6	ppbv	13796800	ISTD01	10.76	3624150	12.5
Pentane, 3-methyl-	9.09	16.8	ppbv	4873440	ISTD01	10.76	3624150	12.5
Pentane, 2,4-dimethy	10.01	8.5	ppbv	2465270	ISTD01	10.76	3624150	12.5
Cyclopentane, methyl	10.22	21.4	ppbv	6193580	ISTD01	10.76	3624150	12.5
Pentane, 2,3-dimethy	10.96	13.1	ppbv	3807510	ISTD01	10.76	3624150	12.5
Cyclopentane, 1,1-di	11.21	2.8	ppbv	815988	ISTD01	10.76	3624150	12.5
Hexane, 2,2-dimethyl	11.36	20.1	ppbv	8613910	ISTD02	11.87	5348610	12.5
Hexane, 2,4-dimethyl	12.28	4.1	ppbv	1762440	ISTD02	11.87	5348610	12.5
Cyclohexane, methyl-	12.39	20.6	ppbv	8808130	ISTD02	11.87	5348610	12.5
Pentane, 2,3,4-trime	12.80	5.2	ppbv	2210990	ISTD02	11.87	5348610	12.5
Heptane, 2-methyl-	12.94	4.9	ppbv	2096040	ISTD02	11.87	5348610	12.5
Heptane, 3-methyl-	13.15	2.8	ppbv	1181910	ISTD02	11.87	5348610	12.5
Cyclohexane, 1,3-dim	13.58	3.4	ppbv	1465010	ISTD02	11.87	5348610	12.5
Octane	13.68	3.6	ppbv	1530350	ISTD02	11.87	5348610	12.5

04051124.D 031611V1.M Thu Apr 14 12:44:09 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051125.D Vial: 2
Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-029A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:03 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

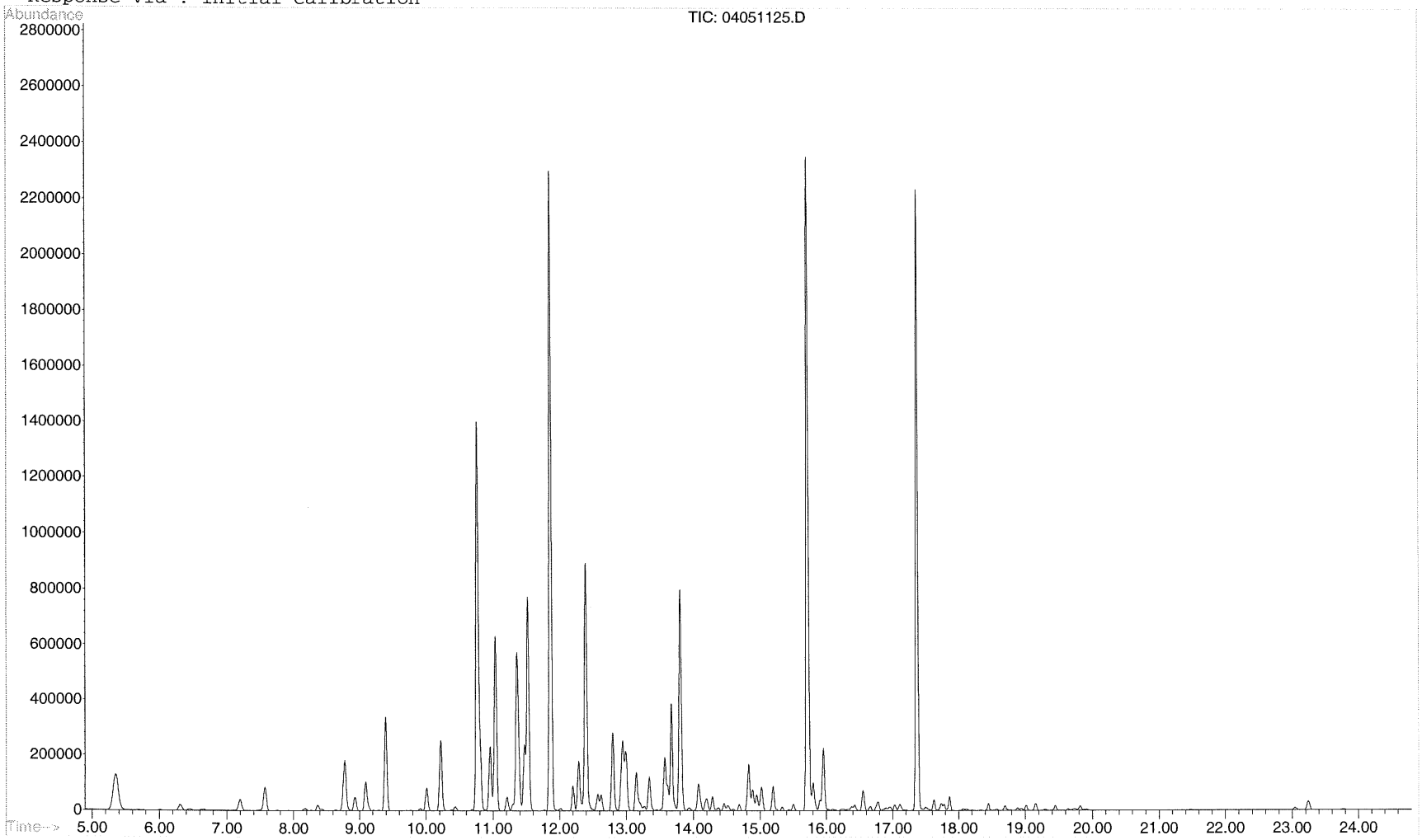
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	674209	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2450852	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1757948	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1069632	12.14	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.12%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	215136	2.19	ppbv		95
29) Cyclohexane	11.03	56	290399	2.91	ppbv	#	78
31) Benzene	11.47	78	171031	1.03	ppbv		96
34) Heptane	11.52	43	355250	3.00	ppbv	#	94
41) Toluene	13.80	91	758454	4.11	ppbv		98
51) m,p-Xylene	15.96	91	168657	1.07	ppbv		94

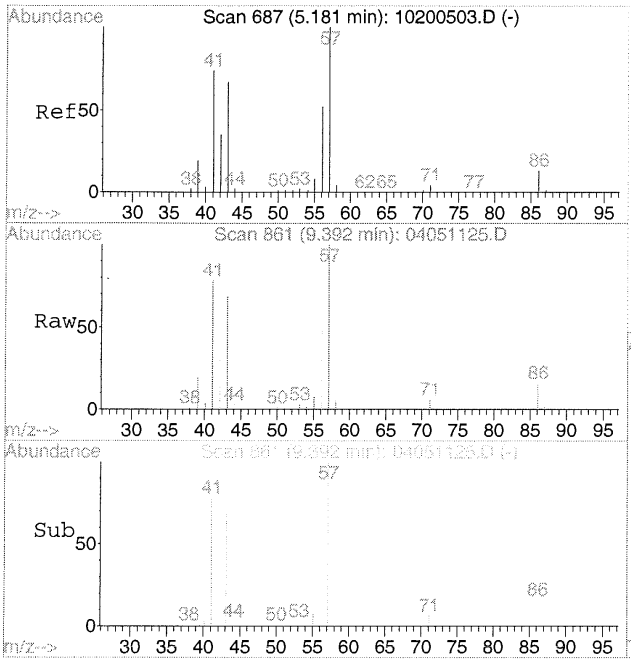
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051125.D Vial: 2
Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-029A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:03 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

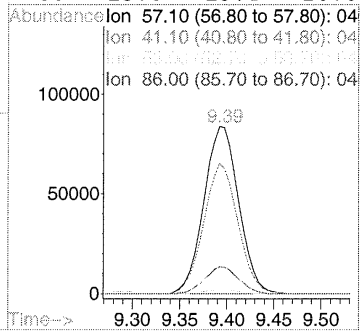


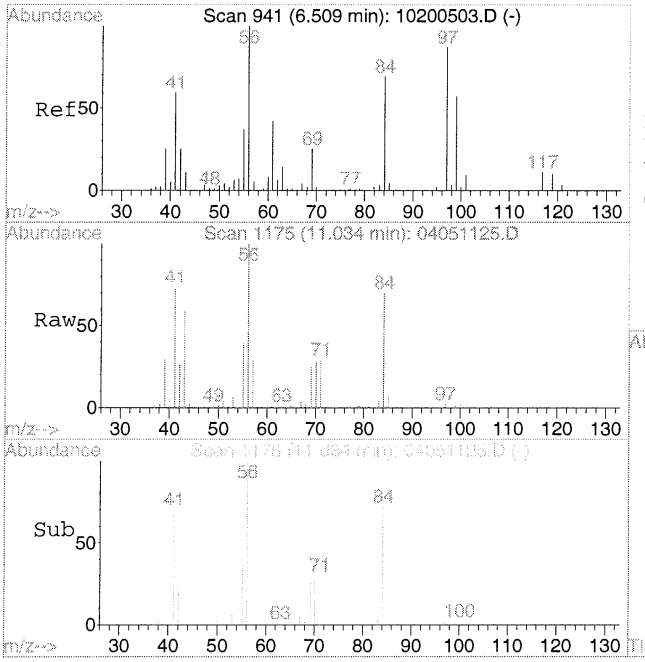


#20
n-Hexane
Concen: 2.19 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051125.D
Acq: 6 Apr 2011 2:49 am

Tgt Ion: 57 Resp: 215136

Ion	Ratio	Lower	Upper
57	100		
41	76.4	57.2	85.8
53	2.3	1.8	2.8
86	15.8	13.4	20.0

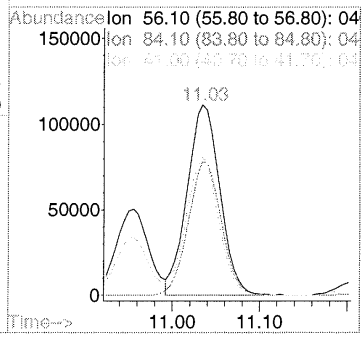


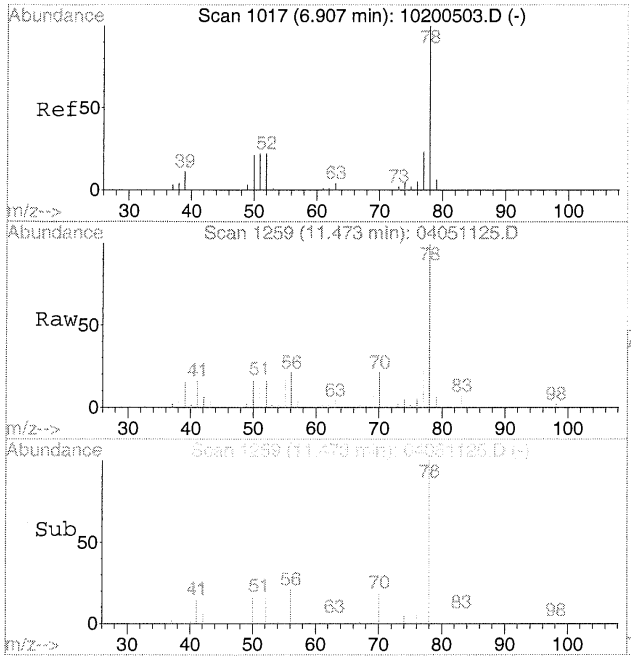


#29
Cyclohexane
Concen: 2.91 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051125.D
Acq: 6 Apr 2011 2:49 am

Tgt Ion: 56 Resp: 290399

Ion	Ratio	Lower	Upper
56	100		
84	70.4	72.4	108.6#
41	71.7	43.8	65.8#

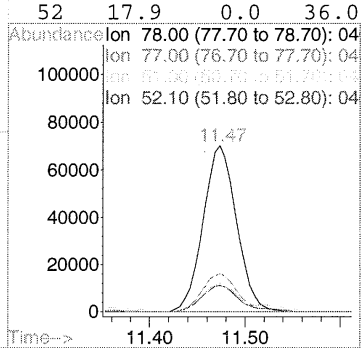


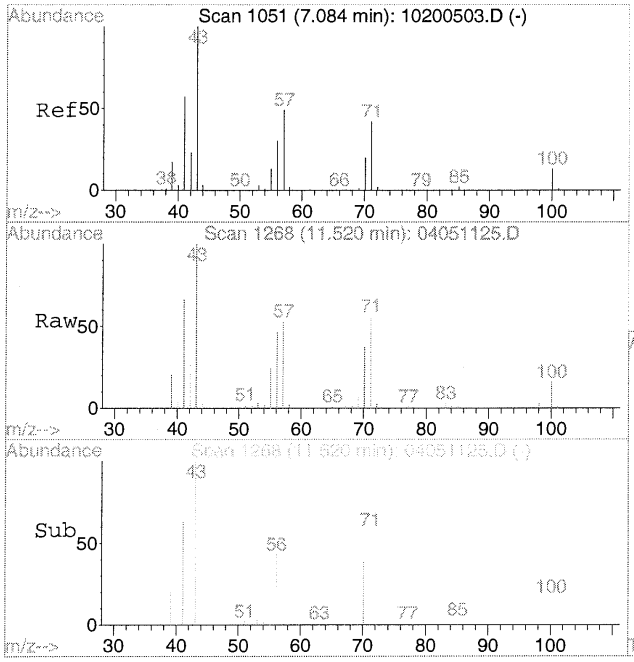


#31
Benzene
Concen: 1.03 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051125.D
Acq: 6 Apr 2011 2:49 am

Tgt Ion: 78 Resp: 171031

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	19.0	0.0	36.1
52	17.9	0.0	36.0

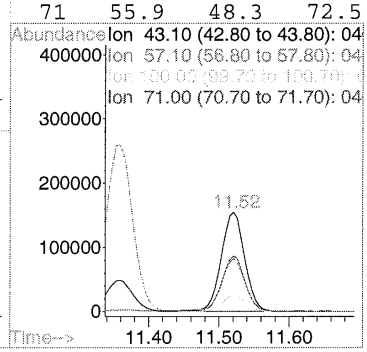


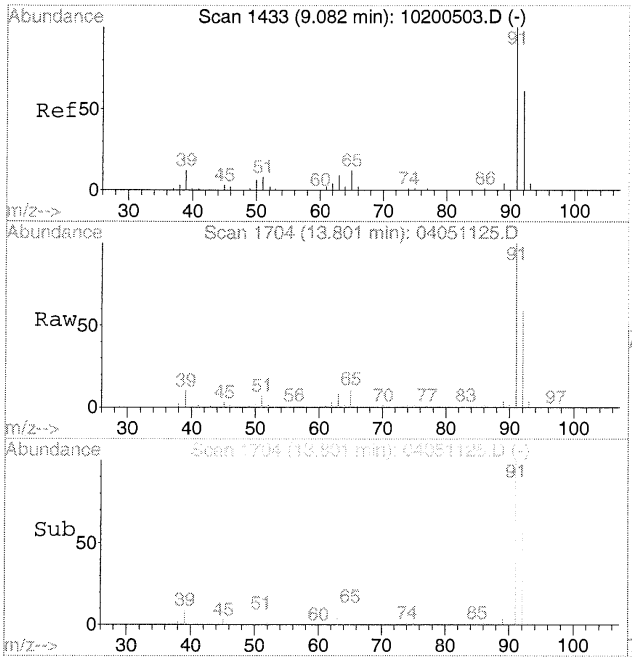


#34
Heptane
Concen: 3.00 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051125.D
Acq: 6 Apr 2011 2:49 am

Tgt Ion: 43 Resp: 355250

Ion	Ratio	Lower	Upper
43	100		
57	55.8	42.2	63.4
100	16.0	17.3	25.9#
71	55.9	48.3	72.5

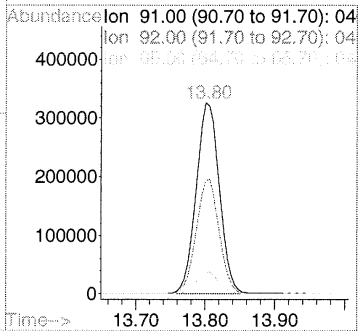


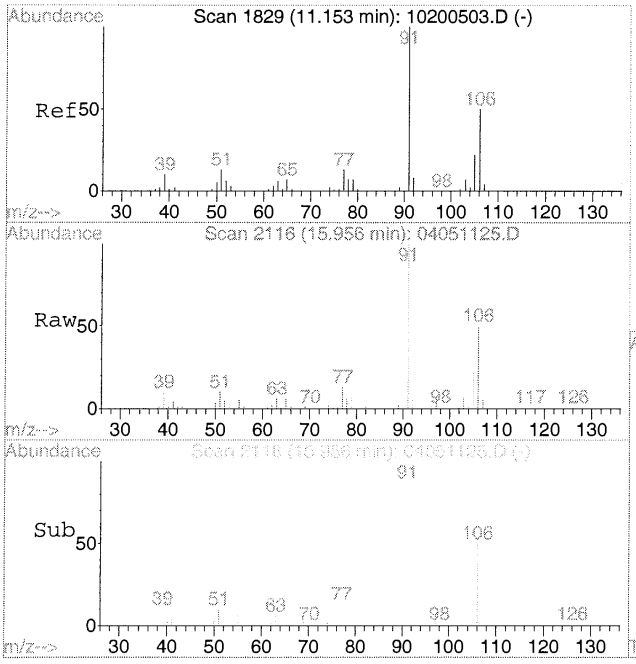


#41
Toluene
Concen: 4.11 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051125.D
Acq: 6 Apr 2011 2:49 am

Tgt Ion: 91 Resp: 758454

Ion	Ratio	Lower	Upper
91	100		
92	59.1	40.5	80.5
65	11.2	0.0	31.2

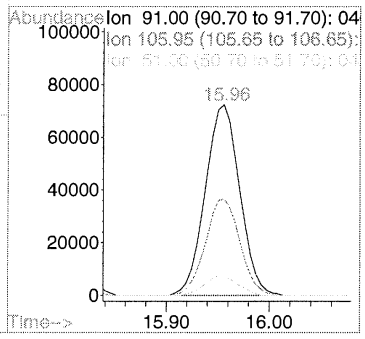




#51
m,p-Xylene
Concen: 1.07 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051125.D
Acq: 6 Apr 2011 2:49 am

Tgt Ion: 91 Resp: 168657

Ion	Ratio	Lower	Upper
91	100		
106	50.5	35.6	75.6
51	10.0	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051125.D Vial: 2
Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-029A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.349	66	88	116	rVB	126547	690700	12.48%	1.623%
2	7.195	429	441	455	rVB2	36469	120857	2.18%	0.284%
3	7.566	500	512	525	rVB	82712	260769	4.71%	0.613%
4	8.367	656	665	673	rBV2	19247	56212	1.02%	0.132%
5	8.775	727	743	763	rBV2	180508	567911	10.26%	1.334%
6	8.932	763	773	785	rVB3	47275	134597	2.43%	0.316%
7	9.094	793	804	821	rBB2	102422	307857	5.56%	0.723%
8	9.392	851	861	875	rBB	337517	854060	15.43%	2.006%
9	10.009	969	979	989	rVB2	80690	208351	3.76%	0.489%
10	10.218	1007	1019	1034	rBV	252842	673542	12.17%	1.582%
11	10.762	1112	1123	1149	rVV2	1397961	3964771	71.64%	9.314%
12	10.956	1149	1160	1167	rVV	229100	602837	10.89%	1.416%
13	11.034	1167	1175	1191	rVB	630027	1610349	29.10%	3.783%
14	11.207	1199	1208	1217	rBV6	48563	125030	2.26%	0.294%
15	11.358	1217	1237	1250	rVV	572844	1790994	32.36%	4.207%
16	11.468	1250	1258	1261	rVV3	238703	526069	9.51%	1.236%
17	11.520	1262	1268	1288	rVB2	771153	1887048	34.10%	4.433%
18	11.860	1322	1333	1351	rBV	2300571	5393837	97.46%	12.671%
19	12.200	1388	1398	1405	rBV2	88374	204925	3.70%	0.481%
20	12.284	1405	1414	1424	rVV2	178749	477050	8.62%	1.121%
21	12.394	1424	1435	1458	rVV	892457	2309207	41.72%	5.425%
22	12.572	1459	1469	1474	rVV6	59804	159078	2.87%	0.374%
23	12.624	1474	1479	1488	rVB2	56744	130952	2.37%	0.308%
24	12.797	1501	1512	1527	rBV2	280224	726028	13.12%	1.706%
25	12.943	1527	1540	1545	rBV4	249631	756555	13.67%	1.777%
26	13.147	1568	1579	1596	rBV2	135278	419915	7.59%	0.986%
27	13.341	1607	1616	1632	rVB	119927	304166	5.50%	0.715%
28	13.571	1650	1660	1667	rBV2	186170	506055	9.14%	1.189%
29	13.670	1672	1679	1694	rVV	380704	870156	15.72%	2.044%
30	13.806	1694	1705	1723	rVB	796392	1959658	35.41%	4.604%
31	14.078	1741	1757	1770	rBV5	95226	291669	5.27%	0.685%
32	14.198	1770	1780	1790	rBV7	39369	117641	2.13%	0.276%
33	14.282	1790	1796	1804	rBV2	45523	95314	1.72%	0.224%
34	14.460	1821	1830	1836	rBV	26456	61934	1.12%	0.145%
35	14.826	1887	1900	1907	rBV	166054	435182	7.86%	1.022%
36	14.883	1907	1911	1918	rVV2	75522	184311	3.33%	0.433%
37	14.946	1918	1923	1929	rVV3	56692	135632	2.45%	0.319%
38	15.019	1929	1937	1950	rVB2	84076	225190	4.07%	0.529%
39	15.197	1959	1971	1986	rBB2	87421	215057	3.89%	0.505%
40	15.720	2059	2071	2082	rBV	2351903	5534469	100.00%	13.001%
41	15.804	2082	2087	2100	rVV	97621	250015	4.52%	0.587%
42	15.909	2100	2107	2108	rVV3	33904	62268	1.13%	0.146%
43	15.956	2108	2116	2127	rVB	220889	536809	9.70%	1.261%

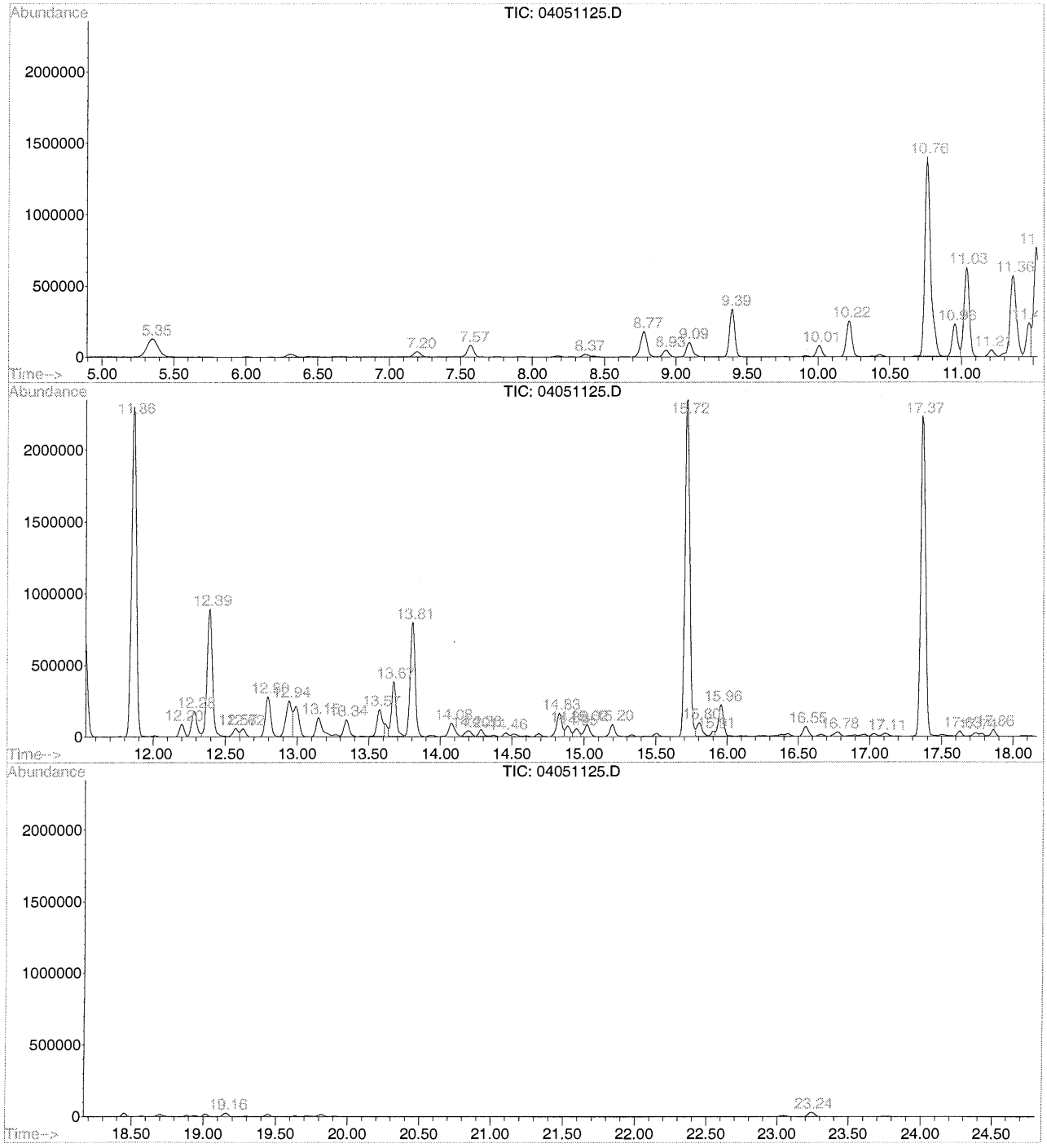
44	16.552	2220	2230	2241	rBB2	71064	180446	3.26%	0.424%
45	16.777	2260	2273	2282	rBB8	30586	92772	1.68%	0.218%
46	17.106	2329	2336	2349	rVB4	20788	57295	1.04%	0.135%
47	17.368	2369	2386	2403	rBV	2235759	5096637	92.09%	11.973%
48	17.629	2428	2436	2444	rVV3	36906	81322	1.47%	0.191%
49	17.739	2446	2457	2461	rVV3	24526	64564	1.17%	0.152%
50	17.859	2473	2480	2489	rVB2	48534	101141	1.83%	0.238%
51	19.156	2718	2728	2736	rVB4	24069	59136	1.07%	0.139%
52	23.241	3498	3509	3520	rVB5	30824	90234	1.63%	0.212%

Sum of corrected areas: 42568574

04051125.D 031611V1.M Thu Apr 14 12:44:19 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051125.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 2:49 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-029A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 2
Quant File :031611V1.RES (RTE Integrator)



04051125.D 031611V1.M Thu Apr 14 12:44:19 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051125.D Vial: 2
Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-029A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	2.18 ppbv	690700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

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Peak Number 2 Pentane $$ n-Pentane $$ Skelly Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	0.82 ppbv	260769	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

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Peak Number 3 Pentane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	1.79 ppbv	567911	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	64

Library Search Compound Report

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Title : TO15 ppbv
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Peak Number 4 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	0.97 ppbv	307857	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

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Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	0.66 ppbv	208351	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	83
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

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Peak Number 6 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	2.12 ppbv	673542	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	90
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	52
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	50

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Peak Number 7 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	1.90 ppbv	602837	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 8 Pentane, 2,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	4.15 ppbv	1790990	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	64
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

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Peak Number 9 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	1.11 ppbv	477050	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
3	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	53
4	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
5	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47

Library Search Compound Report

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Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
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Peak Number 10 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	5.35 ppbv	2309210	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	64

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Peak Number 11 Pentane, 2,3,4-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	1.68 ppbv	726028	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64
3	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
4	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	56
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56

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Peak Number 12 Heptane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	1.75 ppbv	756555	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	83
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	47

Library Search Compound Report

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Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-029A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	0.97 ppbv	419915	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	49
3	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	47
4	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	43

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Peak Number 14 Hexane, 2,2,5-trimethyl- $$ 2, Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	0.70 ppbv	304166	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72

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Peak Number 15 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	1.17 ppbv	506055	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

Library Search Compound Report

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Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-029A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	2.02 ppbv	870156	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Octane	114	C8H18	000111-65-9	81
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	74
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	64

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Peak Number 17 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	0.66 ppbv	291669	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	93
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	86

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Peak Number 18 Cyclohexane, ethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.98 ppbv	435182	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	83

Library Search Compound Report

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Acq On : 6 Apr 2011 2:49 am Operator: Michael Truchan/Rachel Hill
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Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Heptane, 2,4-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	0.51 ppbv	225190	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	45
2	Octane, 4-methyl-	128	C9H20	002216-34-4	40
3	Hydroxylamine, O-decyl- $$ O-Decylh	173	C10H23NO	029812-79-1	40
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	40
5	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	39

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Peak Number 20 Ethylbenzene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	0.56 ppbv	250015	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	90
2	p-Xylene	106	C8H10	000106-42-3	72
3	Benzene, 1,2-dimethyl- $$ o-Dimethy	106	C8H10	000095-47-6	64
4	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	64
5	Benzene, 1,3-dimethyl- $$ m-Xylene	106	C8H10	000108-38-3	53

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 2:49 am
Data File: C:\HPCHEM\1\DATA\040511\04051125.D
Name: 1103389-029A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	2.2	ppbv	690700	ISTD01	10.76	3964770	12.5
Pentane $$ n-Pentane	7.57	0.8	ppbv	260769	ISTD01	10.76	3964770	12.5
Pentane, 2-methyl-	8.77	1.8	ppbv	567911	ISTD01	10.76	3964770	12.5
Pentane, 3-methyl-	9.09	1.0	ppbv	307857	ISTD01	10.76	3964770	12.5
Pentane, 2,4-dimethy	10.01	0.7	ppbv	208351	ISTD01	10.76	3964770	12.5
Cyclopentane, methyl	10.22	2.1	ppbv	673542	ISTD01	10.76	3964770	12.5
Pentane, 2,3-dimethy	10.96	1.9	ppbv	602837	ISTD01	10.76	3964770	12.5
Pentane, 2,2,4-trime	11.36	4.2	ppbv	1790990	ISTD02	11.86	5393840	12.5
Hexane, 2,4-dimethyl	12.28	1.1	ppbv	477050	ISTD02	11.86	5393840	12.5
Cyclohexane, methyl-	12.39	5.4	ppbv	2309210	ISTD02	11.86	5393840	12.5
Pentane, 2,3,4-trime	12.80	1.7	ppbv	726028	ISTD02	11.86	5393840	12.5
Heptane, 2-methyl-	12.94	1.8	ppbv	756555	ISTD02	11.86	5393840	12.5
Heptane, 3-methyl-	13.15	1.0	ppbv	419915	ISTD02	11.86	5393840	12.5
Hexane, 2,2,5-trimet	13.34	0.7	ppbv	304166	ISTD02	11.86	5393840	12.5
Cyclohexane, 1,3-dim	13.57	1.2	ppbv	506055	ISTD02	11.86	5393840	12.5
Octane	13.67	2.0	ppbv	870156	ISTD02	11.86	5393840	12.5
Cyclohexane, 1,2-dim	14.08	0.7	ppbv	291669	ISTD03	15.72	5534470	12.5
Cyclohexane, ethyl-	14.83	1.0	ppbv	435182	ISTD03	15.72	5534470	12.5
Heptane, 2,4-dimethy	15.02	0.5	ppbv	225190	ISTD03	15.72	5534470	12.5
Ethylbenzene	15.80	0.6	ppbv	250015	ISTD03	15.72	5534470	12.5

04051125.D 031611V1.M Thu Apr 14 12:44:20 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:04 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	650704	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2371190	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1699829	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1046473	12.28	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.24%				
Target Compounds							Qvalue
11) Ethanol	7.74	45	6117	0.57	ppbv	#	74
14) Acetone	8.36	43	71181	0.89	ppbv	#	96
20) n-Hexane	9.39	57	411211	4.33	ppbv		95
29) Cyclohexane	11.04	56	577297	6.00	ppbv	#	79
31) Benzene	11.48	78	347471	2.16	ppbv		95
34) Heptane	11.52	43	542213	4.73	ppbv	#	93
41) Toluene	13.80	91	954155	5.34	ppbv		98
51) m,p-Xylene	15.95	91	177547	1.16	ppbv		93

(#) = qualifier out of range (m) = manual integration
04051126.D 031611V1.M Thu Apr 14 12:44:27 2011 Page 1

Quantitation Report

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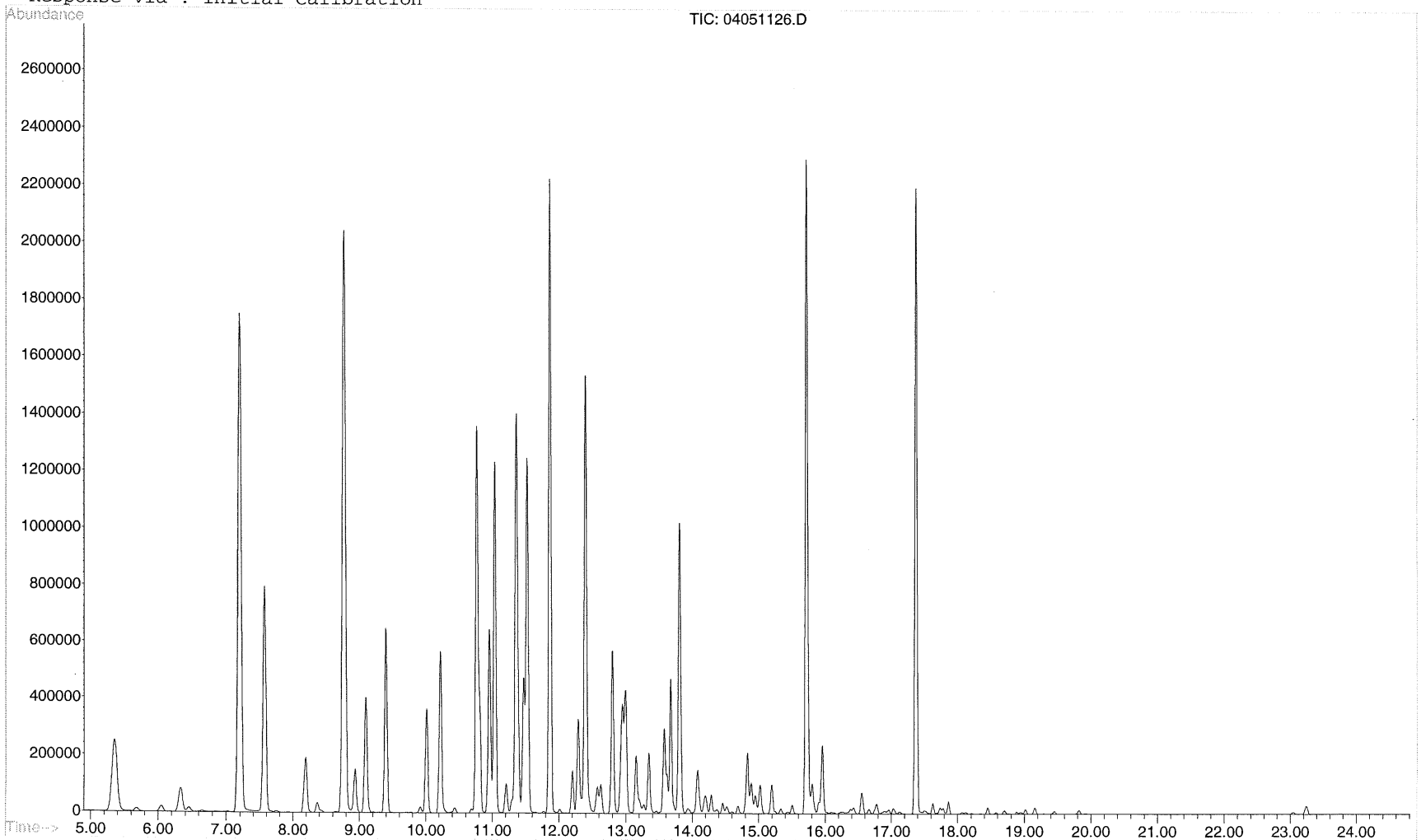
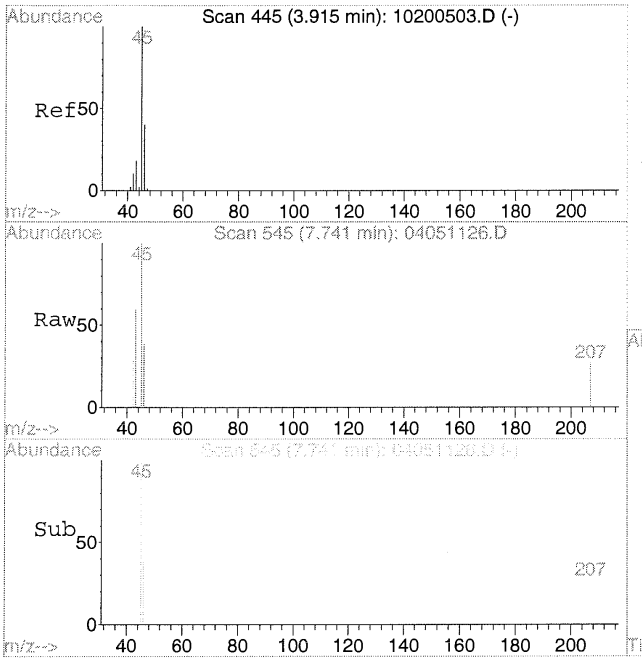
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:04 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

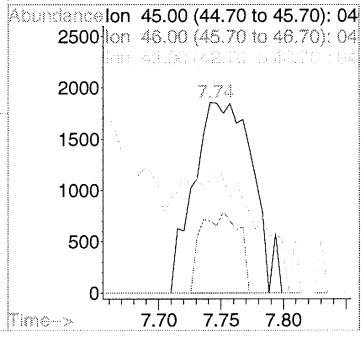


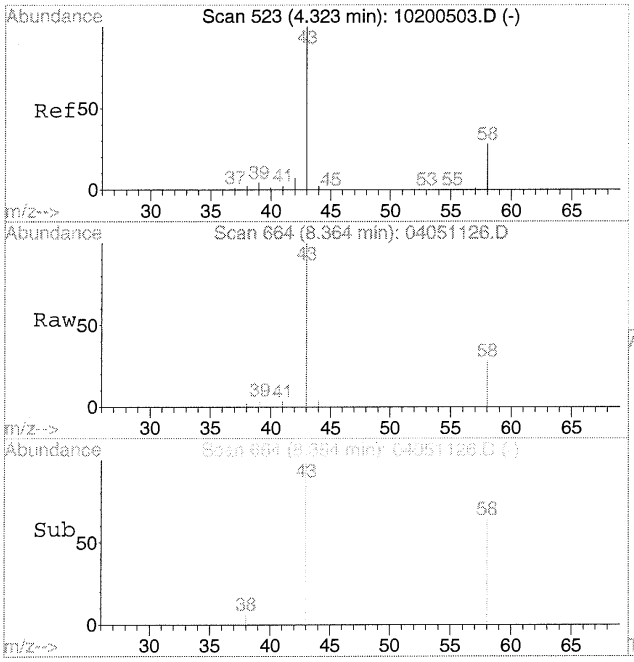


#11
Ethanol
Concen: 0.57 ppbv
RT: 7.74 min Scan# 545
Delta R.T. 0.01 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 45 Resp: 6117

Ion	Ratio	Lower	Upper
45	100		
46	27.6	30.2	45.4#
43	0.0	15.8	23.6#

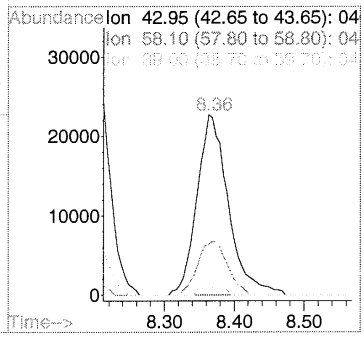


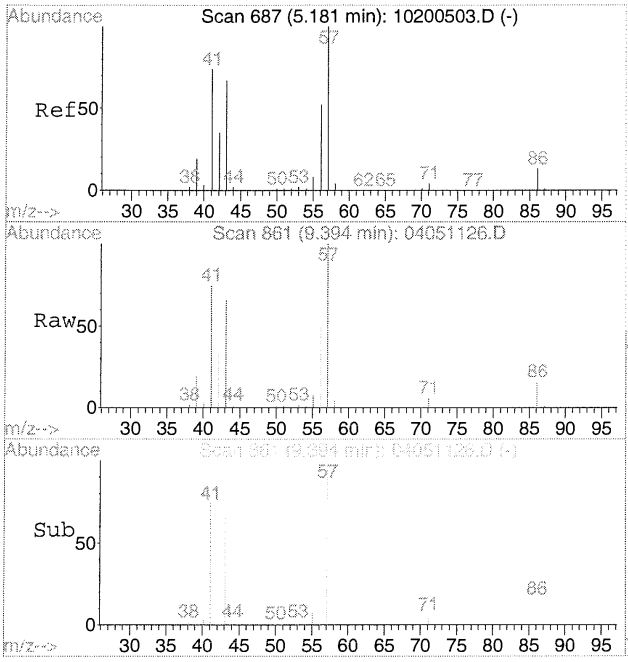


#14
Acetone
Concen: 0.89 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.01 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 43 Resp: 71181

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.0	33.0
39	3.4	6.5	9.7#

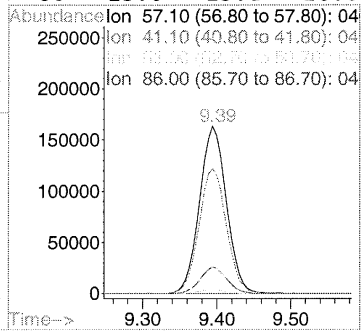


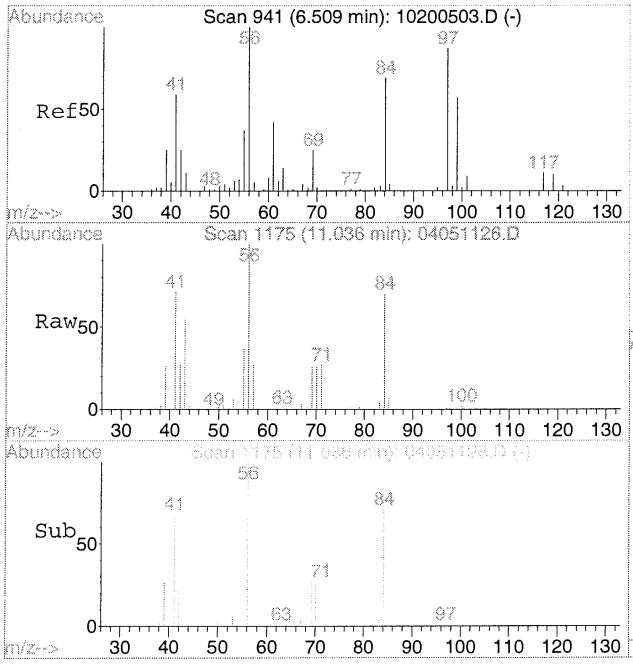


#20
n-Hexane
Concen: 4.33 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 57 Resp: 411211

Ion	Ratio	Lower	Upper
57	100		
41	76.2	57.2	85.8
53	2.3	1.8	2.8
86	15.6	13.4	20.0

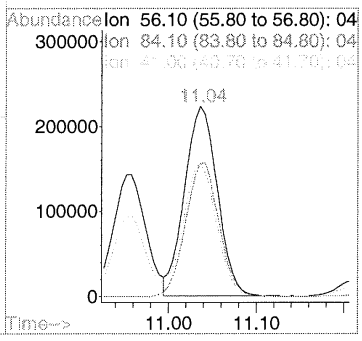


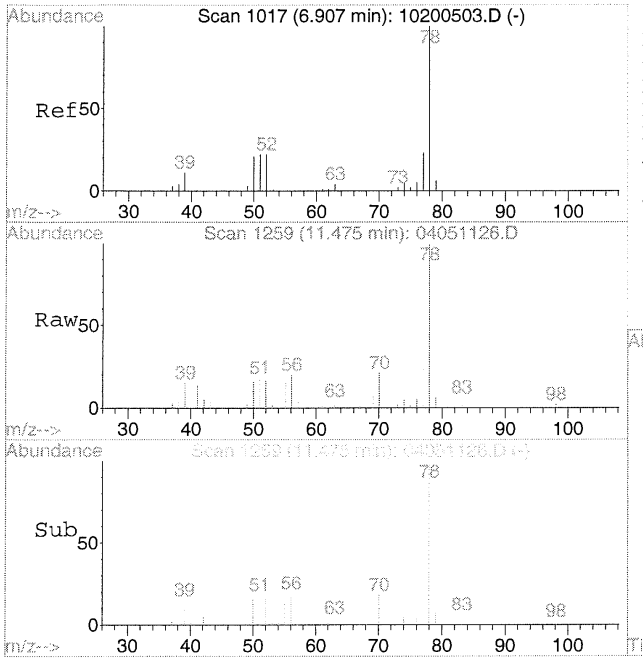


#29
Cyclohexane
Concen: 6.00 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 56 Resp: 577297

Ion	Ratio	Lower	Upper
56	100		
84	71.4	72.4	108.6#
41	70.3	43.8	65.8#

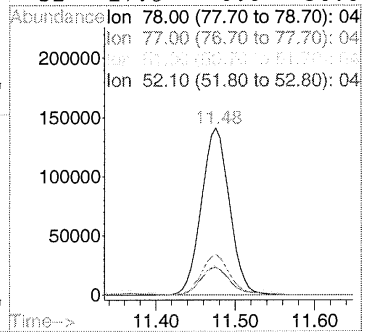


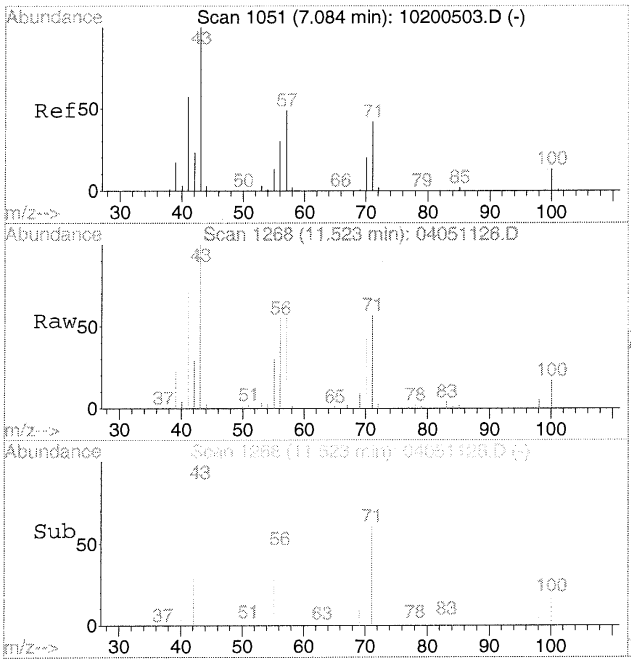


#31
Benzene
Concen: 2.16 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 78 Resp: 347471

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	20.8	0.0	36.1
52	17.8	0.0	36.0

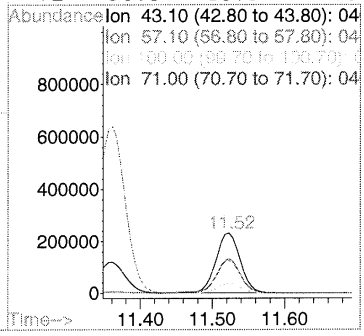


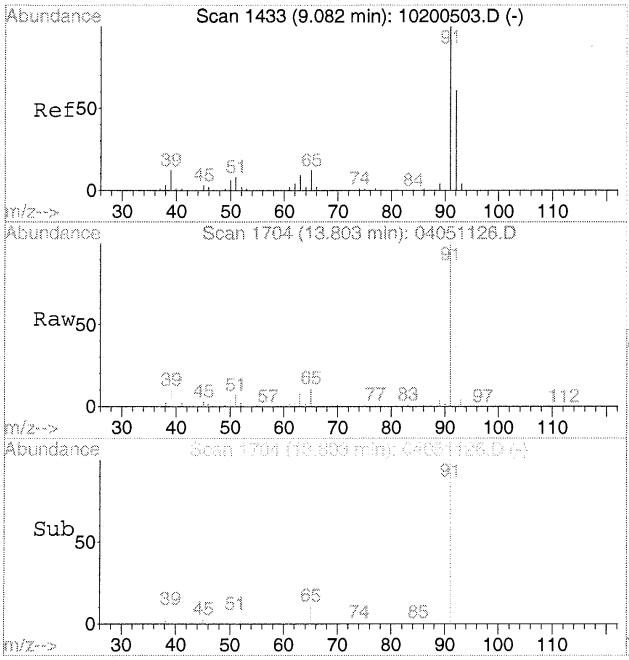


#34
Heptane
Concen: 4.73 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 43 Resp: 542213

Ion	Ratio	Lower	Upper
43	100		
57	56.7	42.2	63.4
100	15.7	17.3	25.9#
71	56.3	48.3	72.5

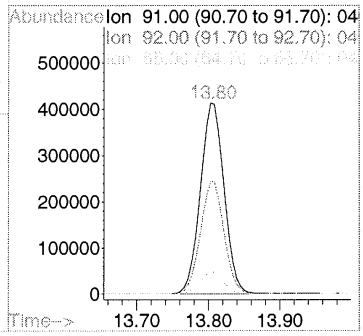


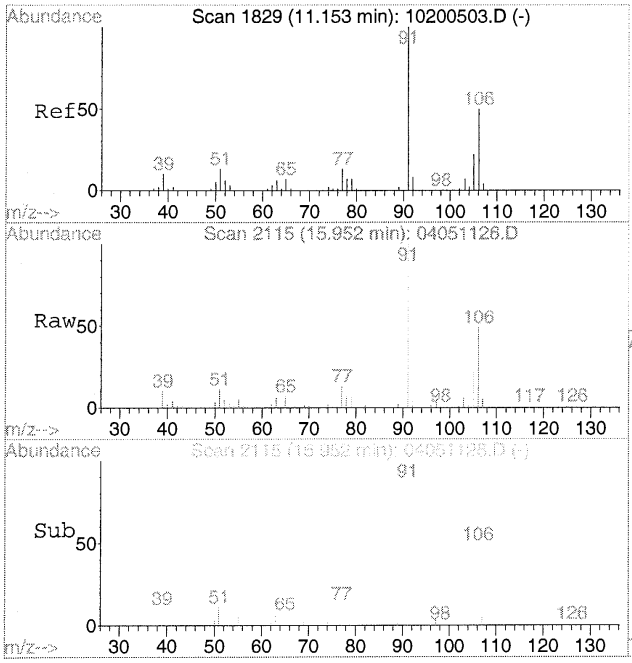


#41
Toluene
Concen: 5.34 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 91 Resp: 954155

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	11.5	0.0	31.2

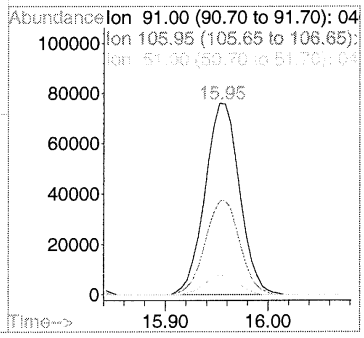




#51
m,p-Xylene
Concen: 1.16 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04051126.D
Acq: 6 Apr 2011 3:33 am

Tgt Ion: 91 Resp: 177547

Ion	Ratio	Lower	Upper
91	100		
106	49.5	35.6	75.6
51	9.9	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.351	65	88	125	rVB	248928	1377988	20.19%	1.826%
2	6.047	206	221	235	rBB3	20201	83527	1.22%	0.111%
3	6.334	260	276	289	rBV5	83630	343832	5.04%	0.456%
4	7.192	421	440	461	rBV	1750475	6068928	88.94%	8.042%
5	7.569	496	512	538	rVB	793498	2487736	36.46%	3.296%
6	8.191	618	631	651	rBB2	191300	628831	9.22%	0.833%
7	8.369	653	665	686	rBB3	33965	120962	1.77%	0.160%
8	8.766	724	741	761	rBV2	2042708	6823457	100.00%	9.042%
9	8.934	762	773	786	rVB	149712	428087	6.27%	0.567%
10	9.091	791	803	822	rVB	400880	1151883	16.88%	1.526%
11	9.394	849	861	881	rBB	647277	1639968	24.03%	2.173%
12	10.011	967	979	993	rVB	362989	961203	14.09%	1.274%
13	10.215	1007	1018	1039	rBV	566033	1531280	22.44%	2.029%
14	10.764	1112	1123	1144	rVV2	1358832	4267474	62.54%	5.655%
15	10.958	1147	1160	1167	rVV	643662	1701052	24.93%	2.254%
16	11.036	1167	1175	1192	rVB2	1231451	3159319	46.30%	4.186%
17	11.209	1198	1208	1218	rBV	100354	263669	3.86%	0.349%
18	11.360	1226	1237	1250	rVV	1367318	3925322	57.53%	5.201%
19	11.470	1250	1258	1262	rVV3	454370	1091662	16.00%	1.447%
20	11.523	1262	1268	1284	rVB2	1243999	3086508	45.23%	4.090%
21	11.862	1321	1333	1353	rBV	2225207	5231805	76.67%	6.933%
22	12.202	1387	1398	1405	rBV	146264	343780	5.04%	0.456%
23	12.286	1405	1414	1423	rVV2	327446	868263	12.72%	1.151%
24	12.396	1424	1435	1457	rVV	1535792	4028397	59.04%	5.338%
25	12.574	1457	1469	1473	rVV5	93777	256922	3.77%	0.340%
26	12.626	1474	1479	1489	rVB2	101336	236520	3.47%	0.313%
27	12.799	1500	1512	1526	rBV2	569214	1480736	21.70%	1.962%
28	12.945	1526	1540	1544	rVV3	378841	1141031	16.72%	1.512%
29	12.992	1545	1549	1563	rVB	426057	1017613	14.91%	1.348%
30	13.149	1568	1579	1596	rVV2	198073	627287	9.19%	0.831%
31	13.343	1607	1616	1631	rVB	206569	519906	7.62%	0.689%
32	13.573	1644	1660	1667	rBV	293871	816764	11.97%	1.082%
33	13.672	1673	1679	1693	rVB	459293	997568	14.62%	1.322%
34	13.808	1693	1705	1722	rVB	1018714	2525535	37.01%	3.347%
35	14.080	1741	1757	1769	rBV4	147634	447259	6.55%	0.593%
36	14.195	1769	1779	1789	rVV6	56935	175693	2.57%	0.233%
37	14.284	1789	1796	1807	rVV	60698	138138	2.02%	0.183%
38	14.457	1821	1829	1835	rBV2	36051	81188	1.19%	0.108%
39	14.828	1887	1900	1906	rVV	210062	547375	8.02%	0.725%
40	14.886	1907	1911	1918	rVV	107964	258747	3.79%	0.343%
41	14.948	1918	1923	1929	rVV3	64501	158022	2.32%	0.209%
42	15.021	1929	1937	1951	rVB	101520	270620	3.97%	0.359%
43	15.199	1959	1971	1979	rBV3	101182	252596	3.70%	0.335%

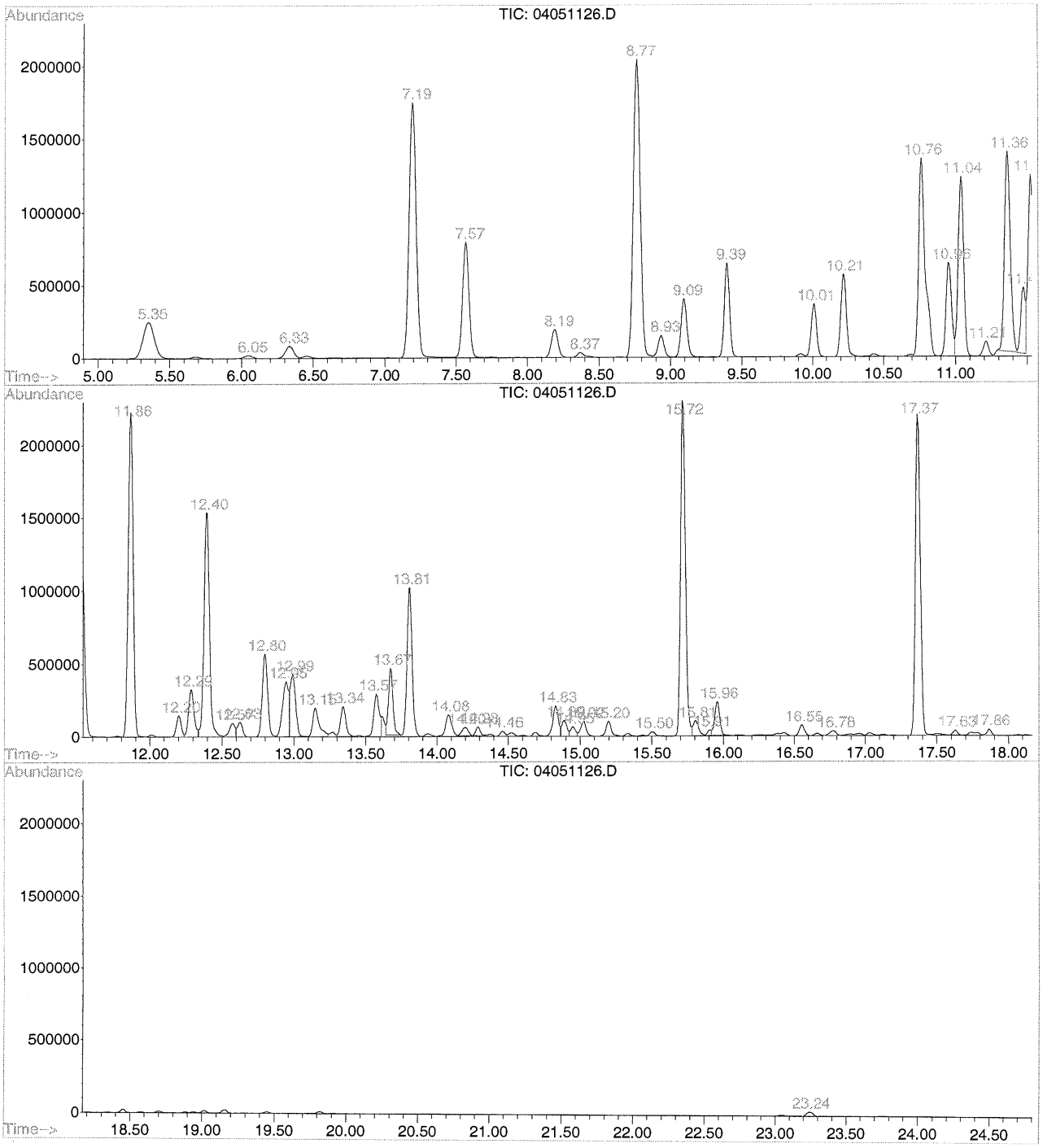
44	15.503	2022	2029	2041	rVB2	29769	73296	1.07%	0.097%
45	15.717	2059	2070	2082	rBV	2297538	5412642	79.32%	7.172%
46	15.806	2082	2087	2098	rVV2	101953	265683	3.89%	0.352%
47	15.905	2098	2106	2108	rVV2	38153	74359	1.09%	0.099%
48	15.958	2108	2116	2128	rVB	231248	570020	8.35%	0.755%
49	16.554	2220	2230	2241	rBB3	72970	186841	2.74%	0.248%
50	16.779	2260	2273	2282	rBV6	33917	100970	1.48%	0.134%
51	17.370	2374	2386	2405	rBV	2197095	4971025	72.85%	6.587%
52	17.626	2428	2435	2444	rVB2	35771	70960	1.04%	0.094%
53	17.861	2473	2480	2489	rVB	44523	91741	1.34%	0.122%
54	23.238	3498	3508	3520	rBV4	28245	83994	1.23%	0.111%

Sum of corrected areas: 75465984

04051126.D 031611V1.M Thu Apr 14 12:44:32 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051126.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 3:33 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-030A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 3
Quant File :031611V1.RES (RTE Integrator)



04051126.D 031611V1.M Thu Apr 14 12:44:32 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	4.04 ppbv	1377990	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	17.78 ppbv	6068930	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	9
5	Azetidine	57	C3H7N	000503-29-7	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	7.29 ppbv	2487740	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	36

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	1.84 ppbv	628831	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	53
5	Heptane, 3-ethyl-5-methyl- $$ 3-Eth	142	C10H22	052896-90-9	50

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	19.99 ppbv	6823460	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80

****

Peak Number 6 Cyclopentane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	1.25 ppbv	428087	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	68
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	64
3	1-Pentene	70	C5H10	000109-67-1	40
4	Cyclobutanone	70	C4H6O	001191-95-3	40
5	1-Pentene	70	C5H10	000109-67-1	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	3.37 ppbv	1151880	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	78
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	74

****

Peak Number 8 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	2.82 ppbv	961203	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 9 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	4.49 ppbv	1531280	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	78
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	49
4	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	47
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	4.98 ppbv	1701050	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

****

Peak Number 11 Hexane, 2,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	9.38 ppbv	3925320	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
5	Pentane, 2,2,4-trimethyl- $$ Isobut	114	C8H18	000540-84-1	78

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	2.07 ppbv	868263	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
3	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	45
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	43

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	9.62 ppbv	4028400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	1H-Pyrazole, 4,5-dihydro-4,5-dimeth	98	C5H10N2	028019-94-5	53

****

Peak Number 14 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	3.54 ppbv	1480740	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	2.73 ppbv	1141030	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	76
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	2.43 ppbv	1017610	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	38
4	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	38
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	27

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.50 ppbv	627287	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50
4	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	49
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47

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Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	1.95 ppbv	816764	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051126.D Vial: 3
Acq On : 6 Apr 2011 3:33 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-030A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Heptane, 2,4-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	2.38 ppbv	997568	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
3	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78
4	Undecane, 2,4-dimethyl-	184	C13H28	017312-80-0	59
5	Octane	114	C8H18	000111-65-9	58

****

Peak Number 20 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.26 ppbv	547375	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 3:33 am
Data File: C:\HPCHEM\1\DATA\040511\04051126.D
Name: 1103389-030A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	4.0	ppbv	1377990	ISTD01	10.76	4267470	12.5
Butane, 2-methyl-	7.19	17.8	ppbv	6068930	ISTD01	10.76	4267470	12.5
Pentane $$ n-Pentane	7.57	7.3	ppbv	2487740	ISTD01	10.76	4267470	12.5
Butane, 2,2-dimethyl	8.19	1.8	ppbv	628831	ISTD01	10.76	4267470	12.5
Pentane, 2-methyl-	8.77	20.0	ppbv	6823460	ISTD01	10.76	4267470	12.5
Cyclopentane	8.93	1.3	ppbv	428087	ISTD01	10.76	4267470	12.5
Pentane, 3-methyl-	9.09	3.4	ppbv	1151880	ISTD01	10.76	4267470	12.5
Pentane, 2,4-dimethy	10.01	2.8	ppbv	961203	ISTD01	10.76	4267470	12.5
Cyclopentane, methyl	10.22	4.5	ppbv	1531280	ISTD01	10.76	4267470	12.5
Pentane, 2,3-dimethy	10.96	5.0	ppbv	1701050	ISTD01	10.76	4267470	12.5
Hexane, 2,2-dimethyl	11.36	9.4	ppbv	3925320	ISTD02	11.86	5231810	12.5
Hexane, 2,4-dimethyl	12.29	2.1	ppbv	868263	ISTD02	11.86	5231810	12.5
Cyclohexane, methyl-	12.40	9.6	ppbv	4028400	ISTD02	11.86	5231810	12.5
Pentane, 2,3,4-trime	12.80	3.5	ppbv	1480740	ISTD02	11.86	5231810	12.5
Heptane, 2-methyl-	12.95	2.7	ppbv	1141030	ISTD02	11.86	5231810	12.5
Decane, 3,3,4-trimet	12.99	2.4	ppbv	1017610	ISTD02	11.86	5231810	12.5
Heptane, 3-methyl-	13.15	1.5	ppbv	627287	ISTD02	11.86	5231810	12.5
Cyclohexane, 1,3-dim	13.57	2.0	ppbv	816764	ISTD02	11.86	5231810	12.5
Heptane, 2,4-dimethy	13.67	2.4	ppbv	997568	ISTD02	11.86	5231810	12.5
Cyclohexane, ethyl-	14.83	1.3	ppbv	547375	ISTD03	15.72	5412640	12.5

04051126.D 031611V1.M Thu Apr 14 12:44:33 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051133.D Vial: 2
Acq On : 6 Apr 2011 9:31 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	593261	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2204699	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1558731	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	989834	12.67	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.36%				
Target Compounds							Qvalue
2) Propylene	5.68	41	55826	1.26	ppbv		97
3) Dichlorodifluoromethane	5.76	85	148145	1.01	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	111781	1.04	ppbv		94
5) Chloromethane	6.18	50	55367	1.10	ppbv	#	95
6) Vinyl chloride	6.38	62	61031	1.07	ppbv	#	98
7) 1,3-Butadiene	6.44	39	50754	1.13	ppbv		94
8) Bromomethane	7.02	94	53332	1.02	ppbv		99
9) Chloroethane	7.17	64	31642	1.04	ppbv	#	72
10) Trichlorofluoromethane	7.51	101	147534	1.06	ppbv		98
11) Ethanol	7.74	45	8050	0.82	ppbv	#	80
12) Freon113	8.16	101	114617	1.02	ppbv		96
13) 1,1-Dichloroethene	8.27	61	91616	1.12	ppbv		94
14) Acetone	8.37	43	80304	1.10	ppbv	#	95
15) Carbon disulfide	8.64	76	154749	1.06	ppbv	#	99
16) 2-Propanol	8.41	45	42692	0.81	ppbv	#	1
17) Methylene chloride	8.93	49	72179	1.21	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	123862	0.91	ppbv	#	1
19) trans-1,2-Dichloroethene	9.21	61	79142	1.02	ppbv		93
20) n-Hexane	9.40	57	284835	3.29	ppbv		95
21) 1,1-Dichloroethane	9.77	63	88815	0.93	ppbv		99
22) Vinyl acetate	9.71	43	74286	0.76	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	50803	0.93	ppbv		93
24) 2-Butanone	10.42	43	67184	0.89	ppbv		93
25) Ethyl acetate	10.38	43	72395	0.77	ppbv	#	99
26) Tetrahydrofuran	10.77	42	69837	1.41	ppbv	#	72
27) Chloroform	10.78	83	101303	0.98	ppbv	#	67
28) 1,1,1-Trichloroethane	11.03	97	102739	0.96	ppbv		98
29) Cyclohexane	11.03	56	276214	3.15	ppbv		85
30) Carbon tetrachloride	11.19	117	101705	0.95	ppbv		98
31) Benzene	11.47	78	299152	2.04	ppbv		97
32) 1,2-Dichloroethane	11.55	62	55182	0.93	ppbv	#	93
34) Heptane	11.52	43	209573	1.97	ppbv	#	94
35) Trichloroethene	12.20	130	69047	0.92	ppbv		98
36) 1,2-Dichloropropane	12.56	63	45329	0.85	ppbv		99
37) 1,4-Dioxane	12.65	88	13888	0.66	ppbv	#	91
38) Bromodichloromethane	12.84	83	90062	0.87	ppbv		96
39) cis-1,3-Dichloropropene	13.40	75	65733	0.81	ppbv		97
40) 4-Methyl-2-pentanone	13.51	58	15330	0.63	ppbv		96
41) Toluene	13.80	91	428164	2.58	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	50382	0.75	ppbv	#	95
43) 1,1,2-Trichloroethane	14.38	97	46722	0.86	ppbv		98
44) Tetrachloroethene	14.50	166	88057	0.96	ppbv		98
45) 2-Hexanone	14.59	43	23186	0.65	ppbv		97
46) Chlorodibromomethane	14.93	129	77079	0.85	ppbv		99
47) 1,2-Dibromoethane	15.17	107	68058	0.86	ppbv		98
49) Chlorobenzene	15.76	112	99710	0.91	ppbv	#	78
50) Ethylbenzene	15.80	91	175284	0.97	ppbv		94

(#) = qualifier out of range (m) = manual integration
04051133.D 031611V1.M Thu Apr 14 12:45:40 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051133.D Vial: 2
Acq On : 6 Apr 2011 9:31 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

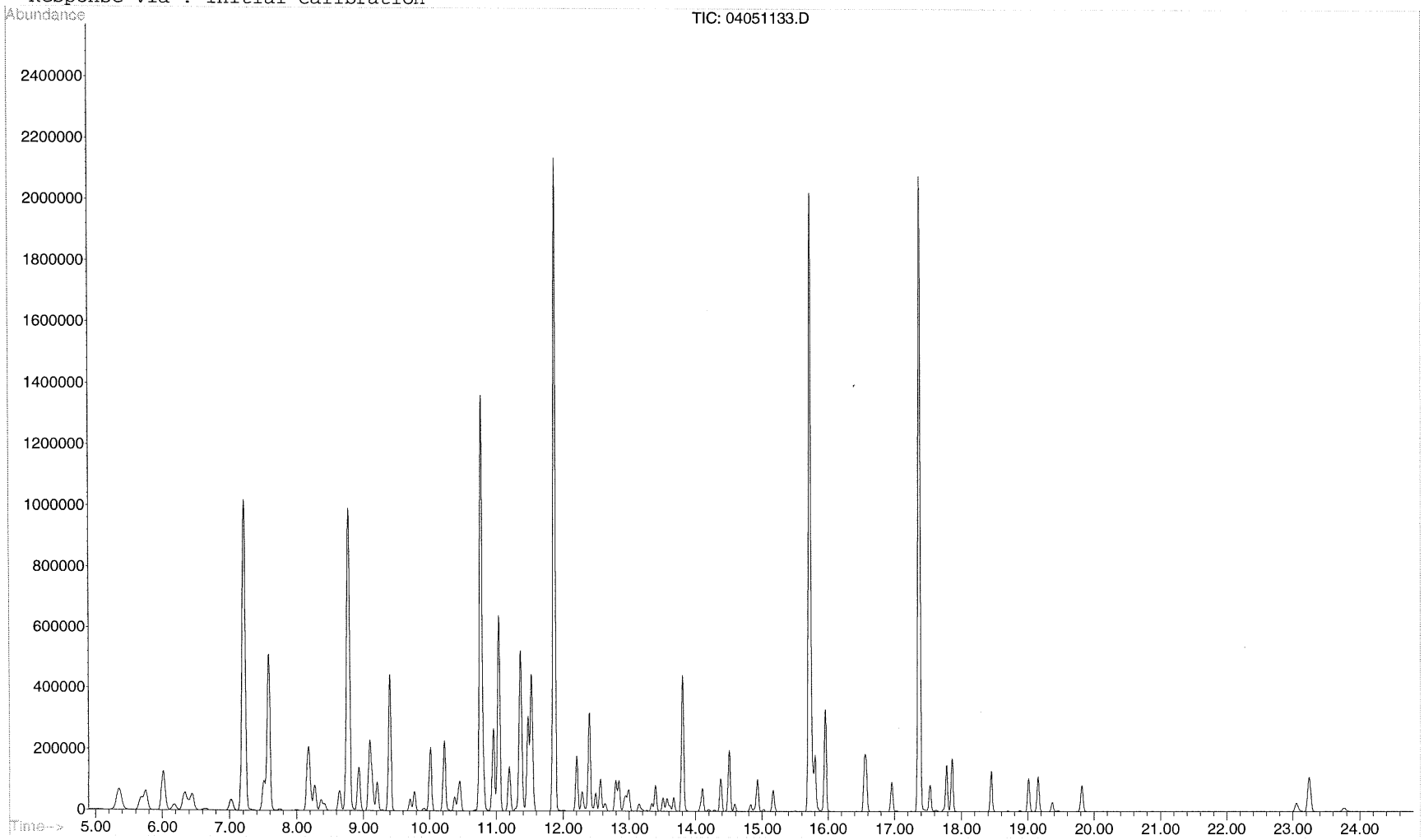
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	270666	1.93	ppbv		93
52)	o-Xylene	16.55	91	131193	0.96	ppbv		97
53)	Styrene	16.57	104	83266	0.89	ppbv		97
54)	Bromoform	16.96	173	68811	0.88	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	62924	0.81	ppbv		97
57)	4-Ethyltoluene	17.78	105	150627	0.92	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	126901	0.94	ppbv		92
59)	1,2,4-Trimethylbenzene	18.45	105	108871	0.91	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	77571	0.93	ppbv		97
61)	1,4-Dichlorobenzene	19.16	146	76007	0.95	ppbv		98
62)	Benzyl chloride	19.38	91	41017	0.78	ppbv		98
63)	1,2-Dichlorobenzene	19.82	146	65530	0.91	ppbv		97
64)	1,2,4-Trichlorobenzene	23.05	180	29453	0.71	ppbv		97
65)	Hexachlorobutadiene	23.25	225	60868	0.84	ppbv		98
66)	Naphthalene	23.76	128	35032	0.70	ppbv	#	84

(#) = qualifier out of range (m) = manual integration
04051133.D 031611V1.M Thu Apr 14 12:45:41 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051133.D Vial: 2
Acq On : 6 Apr 2011 9:31 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



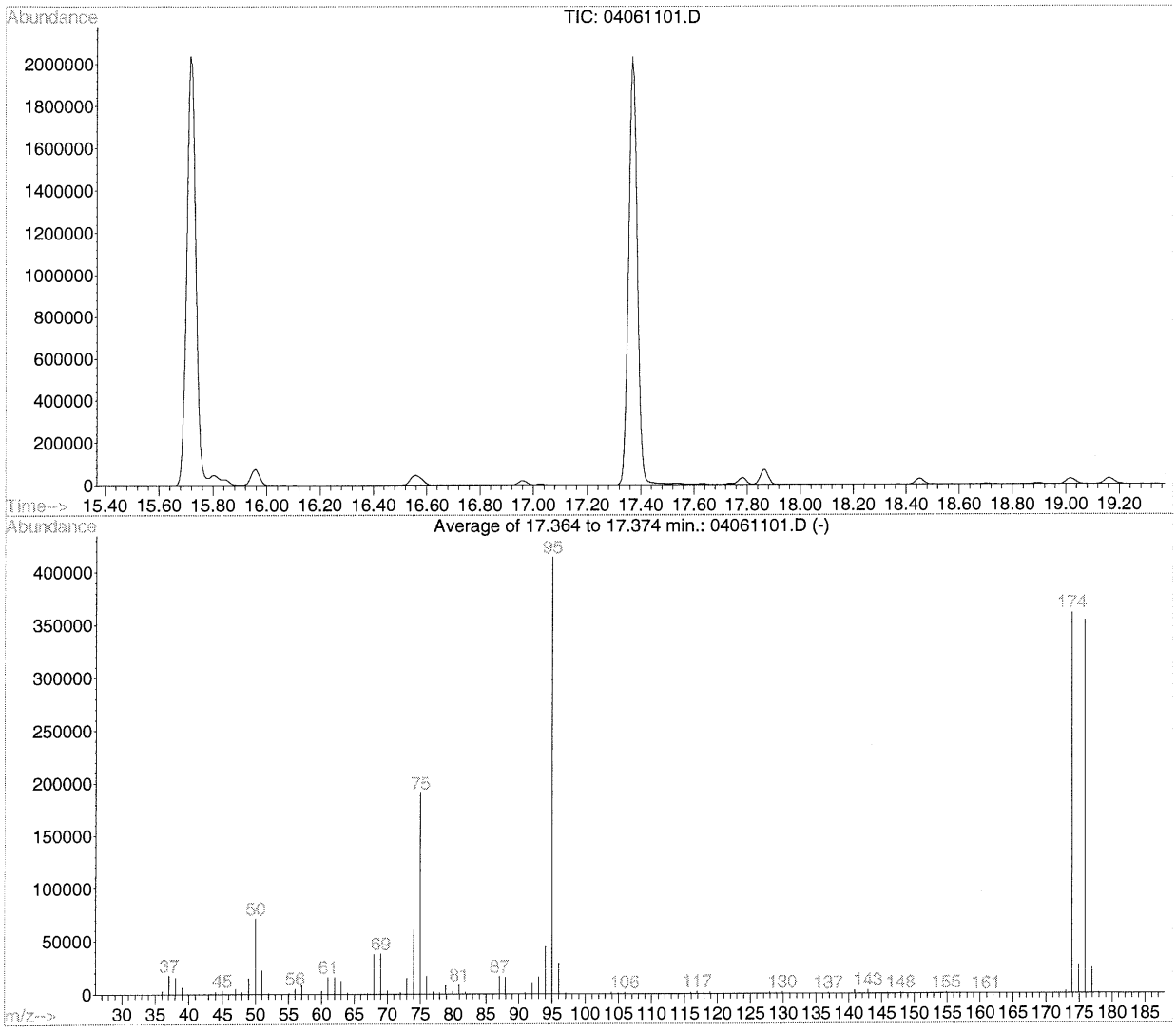
Injection Log

Directory: C:\HPCHEM\1\DATA\040611

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04061101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	6 Apr 2011 10:17
2	2	04061102.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	6 Apr 2011 11:09
3	2	04061103.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	6 Apr 2011 11:53
4	2	04061104.d	1.	MBLK	MBLK EPA_TO15-UG/M3	6 Apr 2011 13:20
5	3	04061105.d	1.	tedlar bag blank 200cc	MBLK EPA_METH18	6 Apr 2011 14:22
6	4	04061106.d	1.	digital diluter blank		6 Apr 2011 15:08
7	5	04061107.d	2000.	1104113-001A	SAMP EPA_METH18	6 Apr 2011 15:46
8	6	04061108.d	8000.	1103389-018B	SAMP EPA_TO15-UG/M3	6 Apr 2011 16:27
9	5	04061109.d	4000.	1104113-001A	SAMP EPA_METH18	6 Apr 2011 17:07
10	1	04061110.d	8000.	1103389-019B	SAMP EPA_TO15-UG/M3	6 Apr 2011 17:50
11	1	04061111.d	8000.	1103389-019BDUP	DUP EPA_TO15-UG/M3	6 Apr 2011 18:33
12	2	04061112.d	8000.	1103389-020B	SAMP EPA_TO15-UG/M3	6 Apr 2011 19:15
13	3	04061113.d	160000.	1103389-021B	SAMP EPA_TO15-UG/M3	6 Apr 2011 19:58
14	4	04061114.d	40000.	1103389-021B – DATA NOT used RHlck 4/15/11	SAMP EPA_TO15-UG/M3	6 Apr 2011 20:41
15	6	04061115.d	40000.	1103389-022B	SAMP EPA_TO15-UG/M3	6 Apr 2011 21:23
16	7	04061116.d	80000.	1103389-023B	SAMP EPA_TO15-UG/M3	6 Apr 2011 22:06
17	8	04061117.d	160000.	1103389-025B	SAMP EPA_TO15-UG/M3	6 Apr 2011 22:48
18	9	04061118.d	160000.	1103389-026B	SAMP EPA_TO15-UG/M3	6 Apr 2011 23:31
19	10	04061119.d	80000.	1103389-027B	SAMP EPA_TO15-UG/M3	7 Apr 2011 00:13
20	11	04061120.d	4000.	1103609-017A	SAMP EPA_TO15-UG/M3	7 Apr 2011 00:56
21	12	04061121.d	80000.	1103609-008A	SAMP EPA_TO15-UG/M3	7 Apr 2011 01:39
22	13	04061122.d	80000.	1103609-009A	SAMP EPA_TO15-UG/M3	7 Apr 2011 02:21
23	14	04061123.d	8000.	1103609-002A	SAMP EPA_TO15-UG/M3	7 Apr 2011 03:04
24	15	04061124.d	8000.	1103609-003A } DATA NOT used RHlck 4/15/11	SAMP EPA_TO15-UG/M3	7 Apr 2011 03:47
25	16	04061125.d	8000.	1103609-004A	SAMP EPA_TO15-UG/M3	7 Apr 2011 04:29
26	17	04061126.d	8000.	1103609-005A	SAMP EPA_TO15-UG/M3	7 Apr 2011 05:12
27	18	04061127.d	8000.	1103609-010A	SAMP EPA_TO15-UG/M3	7 Apr 2011 09:32
28	2	04061128.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	7 Apr 2011 10:15
29	3	04061129.d	1.	CLEAN CHECK BOTTLE VAC 65		7 Apr 2011 11:05
30	3	04071103.d	1.	TO15 ICAL 40cc voa101910d	CCV EPA_TO15-UG/M3	7 Apr 2011 13:16

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040611\04061101.D Vial: 1
Acq On : 6 Apr 2011 10:17 am Operator: Michael Truchan/Rachel Hill
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : TUNE BFB_TUNE Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv



Spectrum Information: Average of 17.364 to 17.374 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	71299	PASS
75	95	30	60	46.0	190549	PASS
95	95	100	100	100.0	414080	PASS
96	95	5	9	7.0	28971	PASS
173	174	0.00	2	0.6	2246	PASS
174	95	50	120	87.2	360960	PASS
175	174	4	9	7.3	26437	PASS
176	174	93	101	98.1	354240	PASS
177	176	5	9	6.7	23651	PASS

04061101.D 031611V1.M Thu Apr 14 13:11:35 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.00
2	T	Propylene	0.937	0.921	1.7	83	0.00
3	T	Dichlorodifluoromethane	3.080	2.889	6.2	79	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.084	8.0	78	0.00
5	T	Chloromethane	1.061	1.245	-17.3	100	0.00
6	T	Vinyl chloride	1.201	1.135	5.5	77	0.00
7	T	1,3-Butadiene	0.945	0.871	7.8	77	0.00
8	T	Bromomethane	1.100	0.606	44.9#	46#	0.00
9	T	Chloroethane	0.640	0.504	21.3	66	0.00
10	T	Trichlorofluoromethane	2.939	2.762	6.0	79	0.00
11	T	Ethanol	0.208	0.226	-8.7	96	0.00
12	T	Freon113	2.361	2.170	8.1	76	0.00
13	T	1,1-Dichloroethene	1.731	1.465	15.4	71	0.00
14	T	Acetone	1.541	1.194	22.5	70	0.00
15	T	Carbon disulfide	3.087	2.686	13.0	73	0.00
16	T	2-Propanol	1.109	1.050	5.3	81	0.00
17	T	Methylene chloride	1.259	1.051	16.5	71	0.00
18	T	tert-Butyl Methyl Ether	2.858	2.130	25.5	68	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.433	12.1	74	0.00
20	T	n-Hexane	1.825	1.473	19.3	68	0.00
21	T	1,1-Dichloroethane	2.005	1.825	9.0	77	0.00
22	T	Vinyl acetate	2.051	1.365	33.4#	59	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.023	10.7	75	0.00
24	T	2-Butanone	1.589	1.289	18.9	75	0.00
25	T	Ethyl acetate	1.982	1.618	18.4	74	0.00
26	T	Tetrahydrofuran	1.042	0.945	9.3	78	0.00
27	T	Chloroform	2.179	1.912	12.3	74	0.00
28	T	1,1,1-Trichloroethane	2.251	2.001	11.1	75	0.00
29	T	Cyclohexane	1.848	1.618	12.4	74	0.00
30	T	Carbon tetrachloride	2.254	2.052	9.0	76	0.00
31	T	Benzene	3.090	2.547	17.6	73	0.00
32	T	1,2-Dichloroethane	1.244	1.051	15.5	73	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
34	T	Heptane	0.604	0.544	9.9	74	0.00
35	T	Trichloroethene	0.426	0.654	-53.5#	127	0.00
36	T	1,2-Dichloropropane	0.301	0.249	17.3	69	0.00
37	T	1,4-Dioxane	0.120	0.099	17.5	69	0.00
38	T	Bromodichloromethane	0.589	0.528	10.4	74	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.376	18.8	68	0.00
40	T	4-Methyl-2-pentanone	0.138	0.131	5.1	78	0.00
41	T	Toluene	0.942	0.817	13.3	75	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.299	21.9	65	0.00
43	T	1,1,2-Trichloroethane	0.307	0.245	20.2	67	0.00
44	T	Tetrachloroethene	0.522	0.484	7.3	76	0.00
45	T	2-Hexanone	0.201	0.256	-27.4	97	0.00
46	T	Chlorodibromomethane	0.515	0.437	15.1	70	0.00
47	T	1,2-Dibromoethane	0.447	0.313	30.0	58	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00
49	T	Chlorobenzene	0.879	0.699	20.5	69	0.00
50	T	Ethylbenzene	1.453	1.240	14.7	77	0.00
51	T	m,p-Xylene	1.125	0.933	17.1	73	0.00
52	T	o-Xylene	1.096	0.912	16.8	74	0.00
53	T	Styrene	0.752	0.663	11.8	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.524	17.0	71	0.00
55	S	4-Bromofluorobenzene	0.627	0.631	-0.6	79	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.086	86.2#	12#	0.00
57	T	4-Ethyltoluene	1.309	1.009	22.9	70	0.00
58	T	1,3,5-Trimethylbenzene	1.080	0.867	19.7	73	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.769	20.3	70	0.00
60	T	1,3-Dichlorobenzene	0.671	0.553	17.6	73	0.00
61	T	1,4-Dichlorobenzene	0.642	0.536	16.5	73	0.00
62	T	Benzyl chloride	0.420	0.102	75.7#	21#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.472	18.6	72	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.263	20.3	64	0.00
65	T	Hexachlorobutadiene	0.578	0.359	37.9#	54	0.00
66		Naphthalene	0.402	0.339	15.7	69	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 11:33 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	606643	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2059428	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1488864	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	939526	12.59	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.72%				
Target Compounds							Qvalue
2) Propylene	5.68	41	455985	10.03	ppbv		100
3) Dichlorodifluoromethane	5.75	85	1290119	8.63	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	960791	8.74	ppbv		94
5) Chloromethane	6.17	50	573975	11.14	ppbv		100
6) Vinyl chloride	6.38	62	517581	8.88	ppbv		100
7) 1,3-Butadiene	6.44	39	414322	9.03	ppbv		100
8) Bromomethane	7.02	94	273426	5.12	ppbv		99
9) Chloroethane	7.17	64	225234	7.25	ppbv		99
10) Trichlorofluoromethane	7.51	101	1286759	9.02	ppbv		99
11) Ethanol	7.74	45	101110	10.03	ppbv		99
12) Freon113	8.17	101	1031933	9.01	ppbv		96
13) 1,1-Dichloroethene	8.27	61	703925	8.38	ppbv		95
14) Acetone	8.36	43	579300	7.75	ppbv		96
15) Carbon disulfide	8.64	76	1264536	8.44	ppbv	#	100
16) 2-Propanol	8.41	45	514804	9.56	ppbv		88
17) Methylene chloride	8.93	49	510238	8.35	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	1023607	7.38	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	681601	8.62	ppbv		93
20) n-Hexane	9.40	57	721864	8.15	ppbv	#	96
21) 1,1-Dichloroethane	9.77	63	859022	8.83	ppbv		99
22) Vinyl acetate	9.70	43	655769	6.59	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	486546	8.75	ppbv		94
24) 2-Butanone	10.42	43	619359	8.03	ppbv		96
25) Ethyl acetate	10.37	43	769400	8.00	ppbv	#	100
26) Tetrahydrofuran	10.76	42	458554	9.07	ppbv		96
27) Chloroform	10.78	83	909401	8.60	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	932351	8.53	ppbv		99
29) Cyclohexane	11.04	56	769555	8.58	ppbv		95
30) Carbon tetrachloride	11.19	117	946141	8.65	ppbv		99
31) Benzene	11.47	78	1186651	7.91	ppbv		99
32) 1,2-Dichloroethane	11.55	62	494628	8.19	ppbv		99
34) Heptane	11.52	43	887274	8.92	ppbv		95
35) Trichloroethene	12.20	130	1034234	14.73	ppbv		97
36) 1,2-Dichloropropane	12.56	63	402203	8.12	ppbv		100
37) 1,4-Dioxane	12.64	88	157062	7.96	ppbv		97
38) Bromodichloromethane	12.84	83	834394	8.60	ppbv		99
39) cis-1,3-Dichloropropene	13.40	75	587907	7.71	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	216197	9.54	ppbv		97
41) Toluene	13.81	91	1318726	8.50	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	448208	7.10	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	395263	7.82	ppbv		98
44) Tetrachloroethene	14.51	166	765501	8.90	ppbv		100
45) 2-Hexanone	14.58	43	413765	12.47	ppbv		98
46) Chlorodibromomethane	14.93	129	705047	8.31	ppbv		100
47) 1,2-Dibromoethane	15.16	107	495625	6.73	ppbv		99
49) Chlorobenzene	15.76	112	823804	7.87	ppbv	#	94
50) Ethylbenzene	15.80	91	1447862	8.36	ppbv		96

(#) = qualifier out of range (m) = manual integration
04061102.D 031611V1.M Thu Apr 14 13:13:15 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 11:33 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

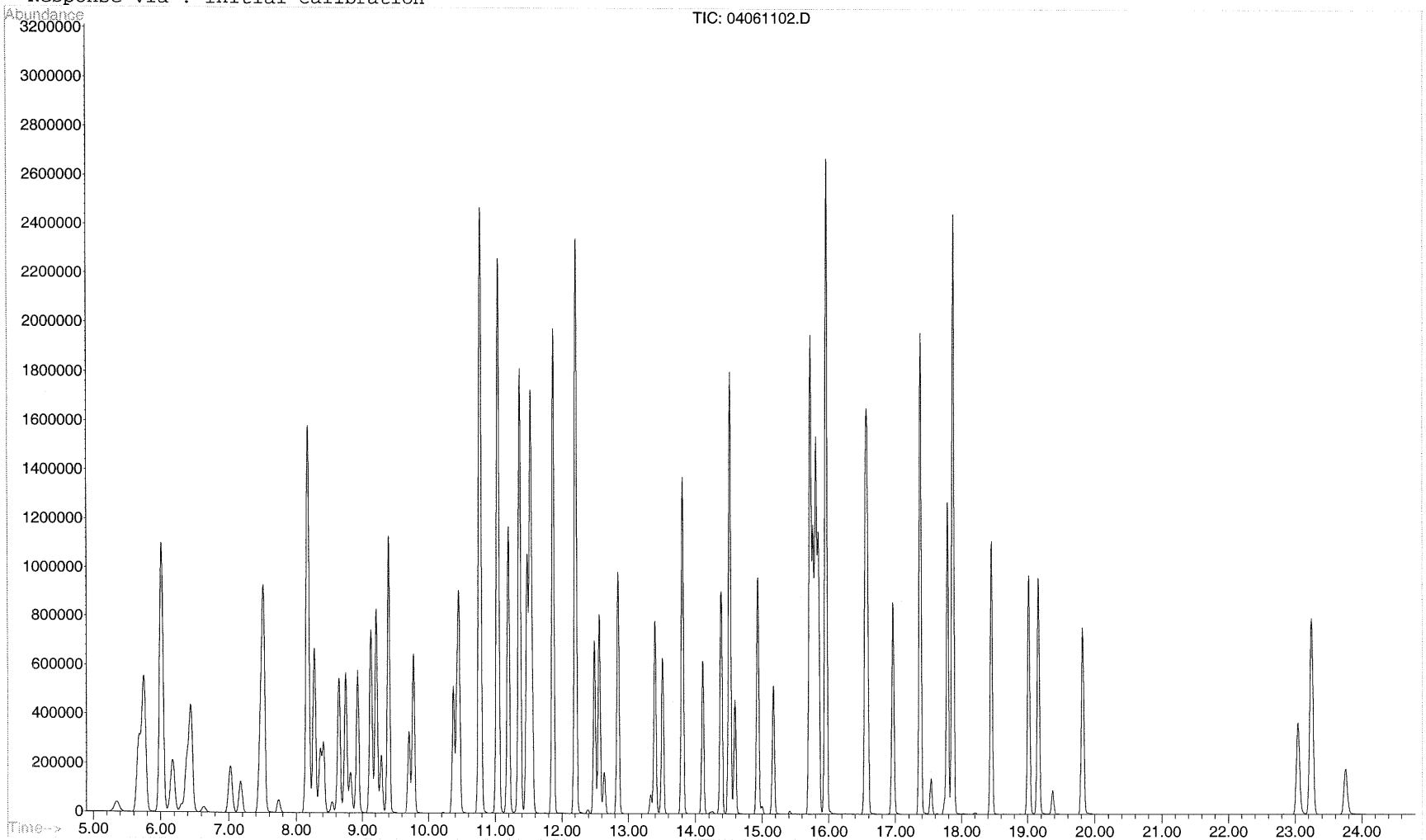
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	2134594	15.93	ppbv		95
52)	o-Xylene	16.55	91	1085895	8.32	ppbv		95
53)	Styrene	16.58	104	774233	8.64	ppbv		98
54)	Bromoform	16.96	173	599357	7.98	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	101977	1.38	ppbv		99
57)	4-Ethyltoluene	17.78	105	1177328	7.55	ppbv		98
58)	1,3,5-Trimethylbenzene	17.86	105	1001160	7.78	ppbv	#	55
59)	1,2,4-Trimethylbenzene	18.45	105	897728	7.81	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	639425	8.00	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	613242	8.02	ppbv		99
62)	Benzyl chloride	19.37	91	117293	2.35	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	545132	7.90	ppbv		98
64)	1,2,4-Trichlorobenzene	23.04	180	285432	7.25	ppbv		99
65)	Hexachlorobutadiene	23.25	225	402245	5.84	ppbv		99
66)	Naphthalene	23.75	128	371015	7.75	ppbv		100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 11:33 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061103.D Vial: 2
Acq On : 6 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 12:18 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	599834	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2138885	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1500764	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	945912	12.58	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.64%				
Target Compounds							Qvalue
2) Propylene	5.68	41	50589	1.13	ppbv		98
3) Dichlorodifluoromethane	5.75	85	147140	1.00	ppbv	#	96
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	110873	1.02	ppbv		95
5) Chloromethane	6.18	50	53506	1.05	ppbv	#	95
6) Vinyl chloride	6.39	62	60249	1.05	ppbv	#	97
7) 1,3-Butadiene	6.44	39	50272	1.11	ppbv		98
8) Bromomethane	7.02	94	53346	1.01	ppbv		99
9) Chloroethane	7.18	64	29836	0.97	ppbv	#	98
10) Trichlorofluoromethane	7.51	101	147392	1.05	ppbv		98
11) Ethanol	7.75	45	10268	1.03	ppbv	#	93
12) Freon113	8.17	101	112746	1.00	ppbv		98
13) 1,1-Dichloroethene	8.27	61	90792	1.09	ppbv		94
14) Acetone	8.36	43	75861	1.03	ppbv	#	94
15) Carbon disulfide	8.64	76	152752	1.03	ppbv	#	98
16) 2-Propanol	8.42	45	45853	0.86	ppbv	#	1
17) Methylene chloride	8.92	49	67728	1.12	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	138321	1.01	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	80343	1.03	ppbv		94
20) n-Hexane	9.39	57	91787	1.05	ppbv		94
21) 1,1-Dichloroethane	9.77	63	94081	0.98	ppbv		98
22) Vinyl acetate	9.70	43	84338	0.86	ppbv	#	97
23) cis-1,2-Dichloroethene	10.46	96	54016	0.98	ppbv		94
24) 2-Butanone	10.42	43	76437	1.00	ppbv	#	91
25) Ethyl acetate	10.37	43	77758	0.82	ppbv	#	100
26) Tetrahydrofuran	10.77	42	46968	0.94	ppbv		94
27) Chloroform	10.77	83	108342	1.04	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	110115	1.02	ppbv		98
29) Cyclohexane	11.04	56	91510	1.03	ppbv		95
30) Carbon tetrachloride	11.19	117	107444	0.99	ppbv		99
31) Benzene	11.47	78	143406	0.97	ppbv		98
32) 1,2-Dichloroethane	11.55	62	62164	1.04	ppbv		96
34) Heptane	11.52	43	111166	1.08	ppbv		93
35) Trichloroethene	12.20	130	73001	1.00	ppbv		98
36) 1,2-Dichloropropane	12.56	63	50343	0.98	ppbv		99
37) 1,4-Dioxane	12.65	88	20550	1.00	ppbv		98
38) Bromodichloromethane	12.85	83	98010	0.97	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	73553	0.93	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	16512	0.70	ppbv		96
41) Toluene	13.80	91	167363	1.04	ppbv		97
42) trans-1,3-Dichloropropene	14.10	75	56370	0.86	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	52199	0.99	ppbv		98
44) Tetrachloroethene	14.51	166	96093	1.08	ppbv		99
45) 2-Hexanone	14.59	43	27326	0.79	ppbv		96
46) Chlorodibromomethane	14.93	129	86201	0.98	ppbv		99
47) 1,2-Dibromoethane	15.16	107	74674	0.98	ppbv		99
49) Chlorobenzene	15.76	112	110056	1.04	ppbv	#	83
50) Ethylbenzene	15.80	91	184376	1.06	ppbv		94

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061103.D Vial: 2
Acq On : 6 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 12:18 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

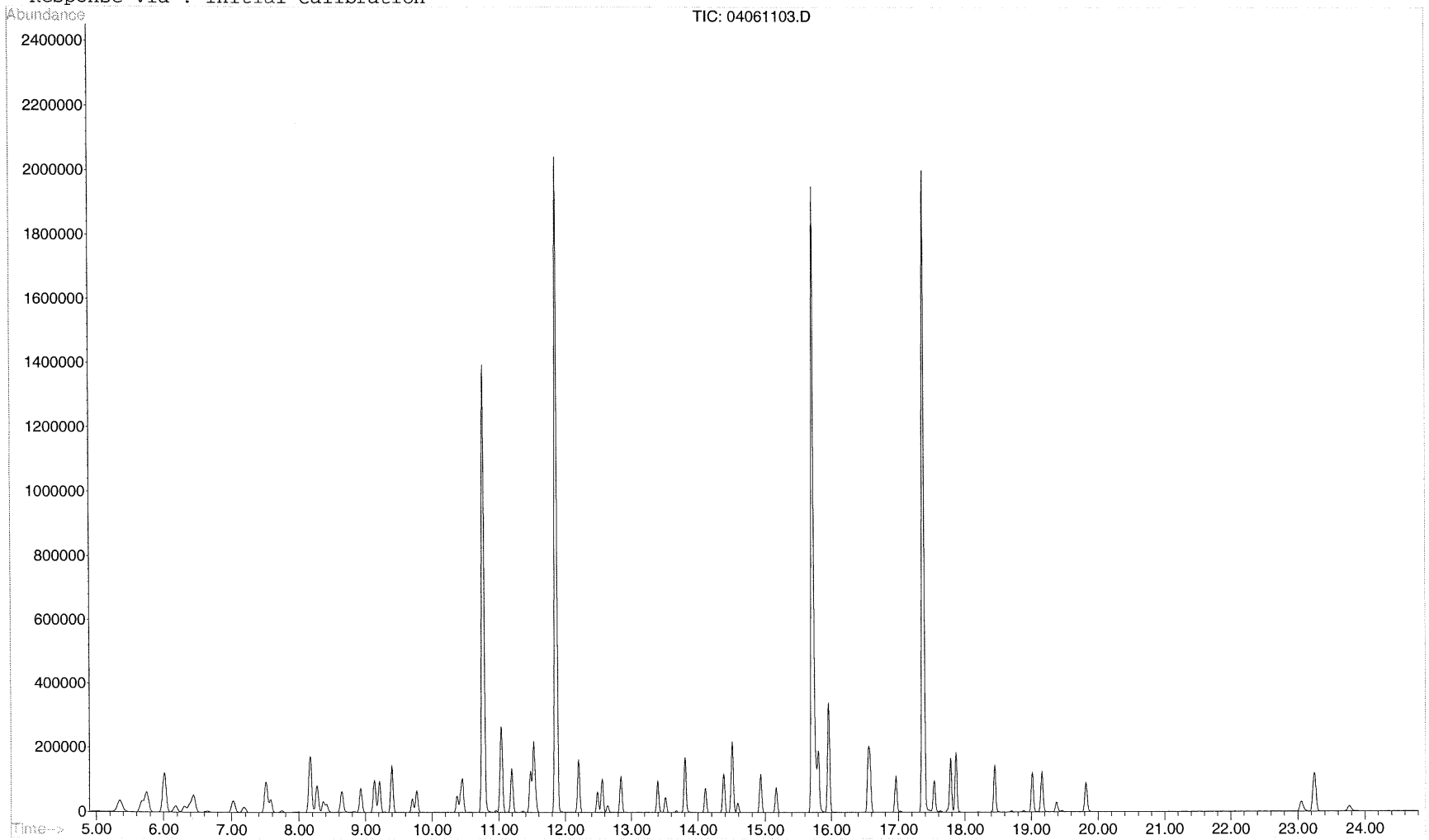
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	283114	2.10	ppbv		93
52)	o-Xylene	16.55	91	141049	1.07	ppbv		97
53)	Styrene	16.58	104	92515	1.02	ppbv		98
54)	Bromoform	16.96	173	77552	1.02	ppbv		98
56)	1,1,2,2-Tetrachloroethane	17.53	83	71217	0.95	ppbv		98
57)	4-Ethyltoluene	17.78	105	168103	1.07	ppbv		96
58)	1,3,5-Trimethylbenzene	17.86	105	141384	1.09	ppbv		94
59)	1,2,4-Trimethylbenzene	18.45	105	121584	1.05	ppbv		97
60)	1,3-Dichlorobenzene	19.01	146	86084	1.07	ppbv		97
61)	1,4-Dichlorobenzene	19.16	146	85245	1.11	ppbv		97
62)	Benzyl chloride	19.38	91	45836	0.91	ppbv		97
63)	1,2-Dichlorobenzene	19.82	146	72885	1.05	ppbv		97
64)	1,2,4-Trichlorobenzene	23.06	180	34159	0.86	ppbv		96
65)	Hexachlorobutadiene	23.24	225	62872	0.91	ppbv		99
66)	Naphthalene	23.77	128	47607	0.99	ppbv	#	84

(#) = qualifier out of range (m) = manual integration
04061103.D 031611V1.M Thu Apr 14 13:13:26 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061103.D Vial: 2
Acq On : 6 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 12:18 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061104.D Vial: 2
Acq On : 6 Apr 2011 1:20 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 13:44 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

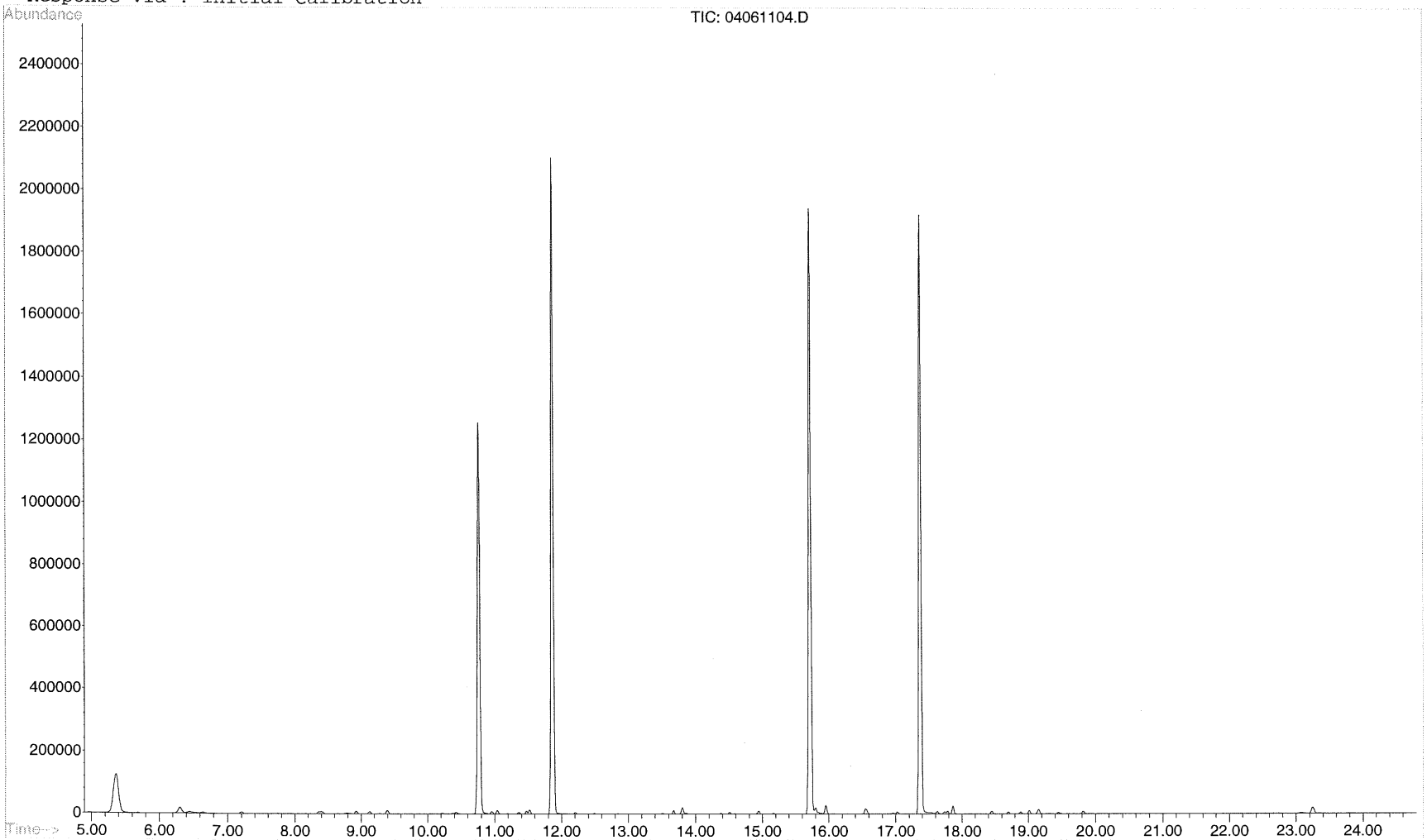
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	584673	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2147567	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.71	117	1485705	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	907842	12.19	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.52%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
04061104.D 031611V1.M Thu Apr 14 13:13:33 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061104.D Vial: 2
Acq On : 6 Apr 2011 1:20 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 13:44 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:50 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

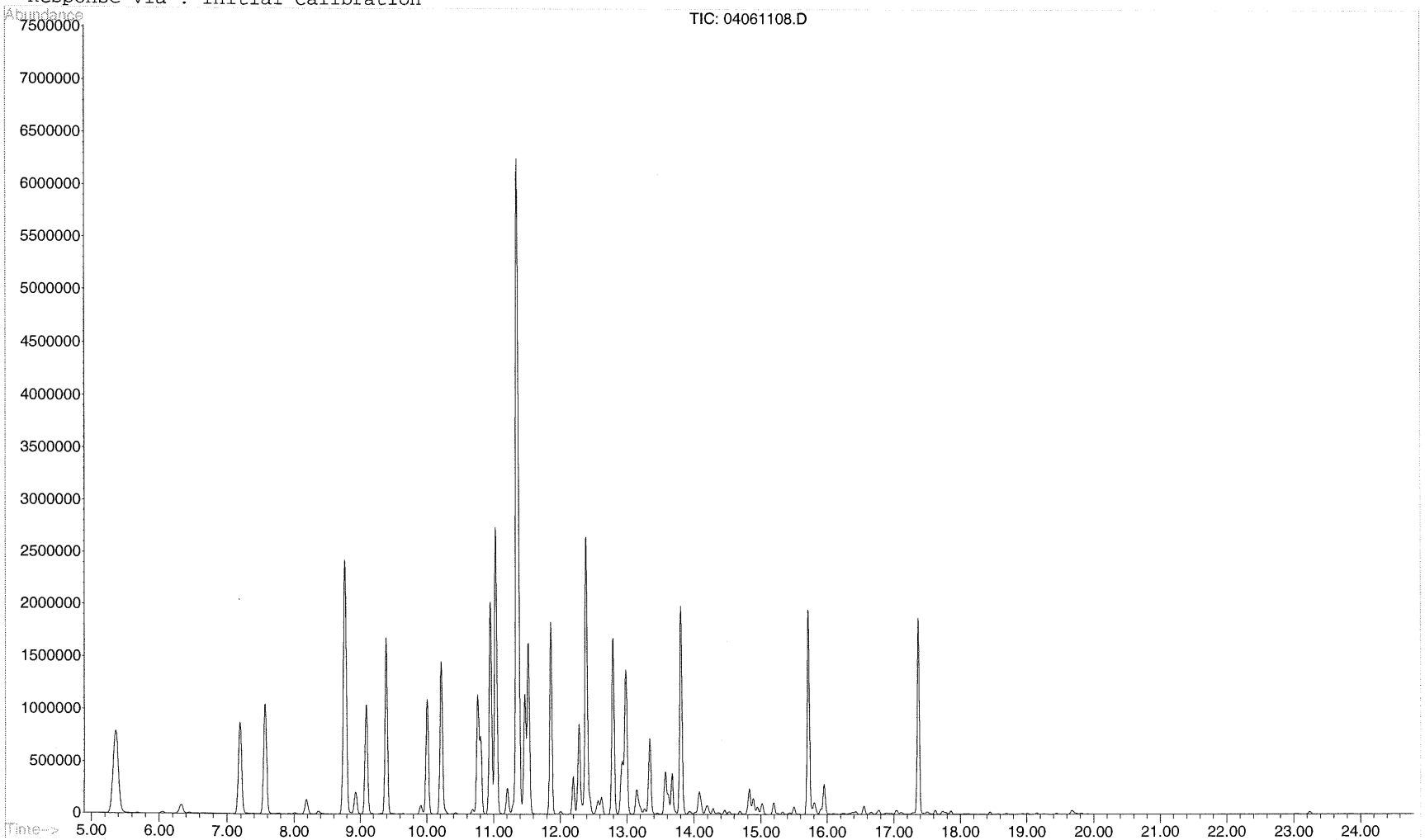
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	512160	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1856225	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1364721	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	859429	12.56	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.48%				
Target Compounds							Qvalue
14) Acetone	8.37	43	59358	0.94	ppbv	#	97
20) n-Hexane	9.39	57	1059915	14.17	ppbv		97
29) Cyclohexane	11.03	56	1303501	17.21	ppbv	#	80
31) Benzene	11.47	78	903009	7.13	ppbv		96
34) Heptane	11.52	43	621511	6.93	ppbv	#	93
41) Toluene	13.80	91	1830855	13.09	ppbv		99
50) Ethylbenzene	15.80	91	84371	0.53	ppbv		95
51) m,p-Xylene	15.95	91	215081	1.75	ppbv		93
52) o-Xylene	16.55	91	65113	0.54	ppbv	#	88

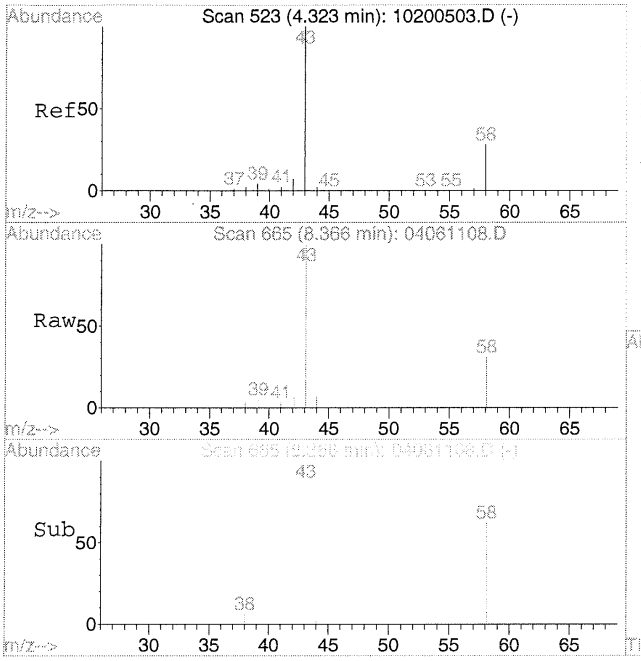
(#) = qualifier out of range (m) = manual integration
04061108.D 031611V1.M Thu Apr 14 13:13:51 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:50 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

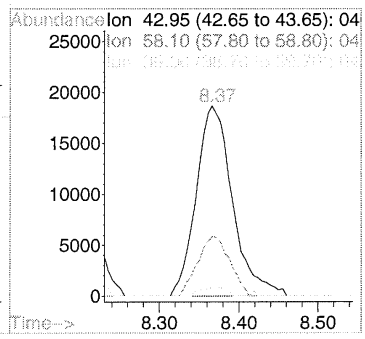


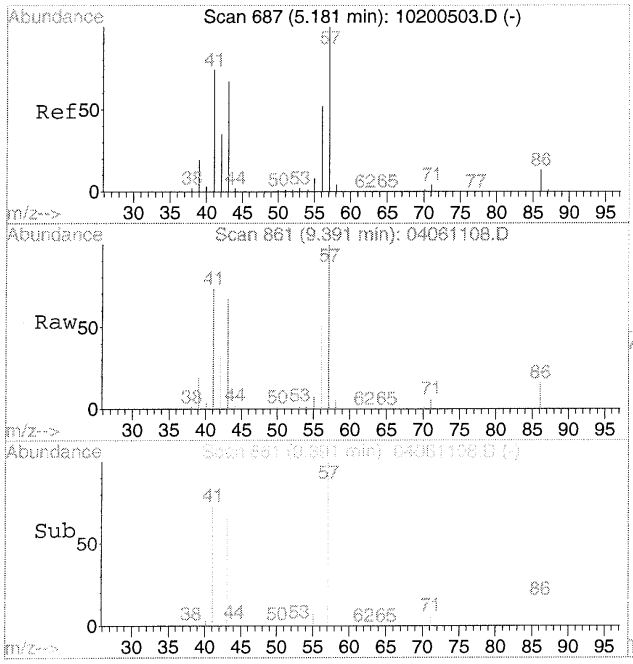


#14
Acetone
Concen: 0.94 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 43 Resp: 59358

Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.0	33.0
39	3.3	6.5	9.7#

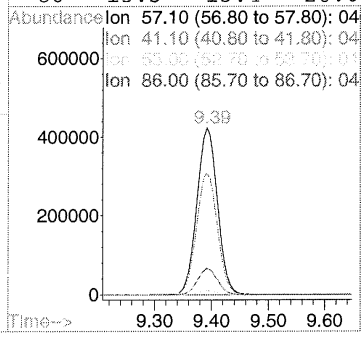


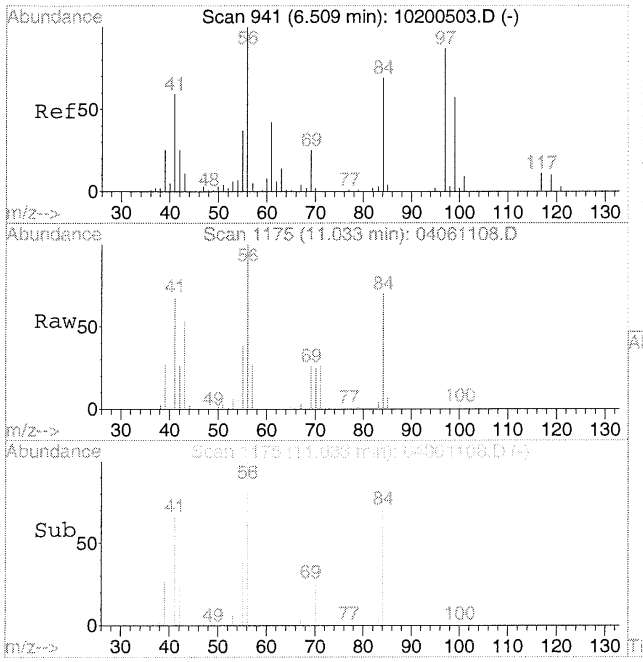


#20
n-Hexane
Concen: 14.17 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 57 Resp: 1059915

Ion	Ratio	Lower	Upper
57	100		
41	73.6	57.2	85.8
53	2.3	1.8	2.8
86	15.3	13.4	20.0

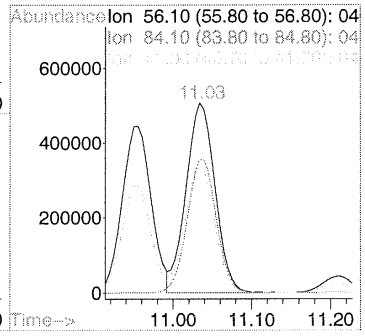


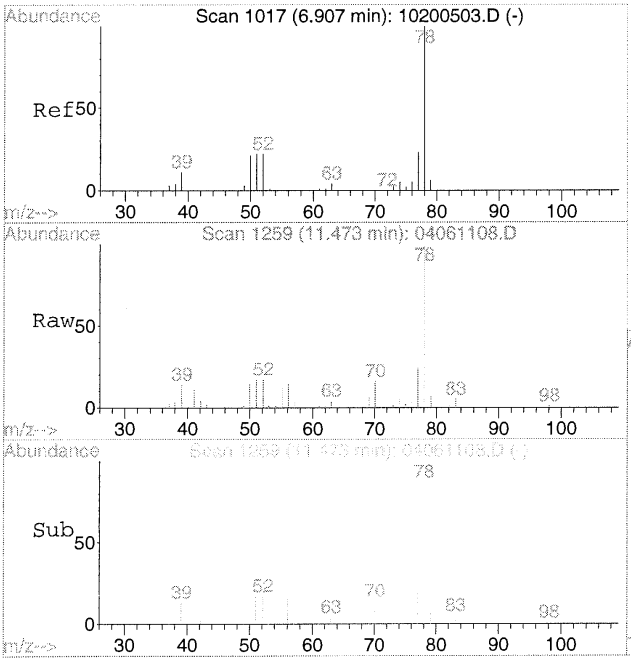


#29
Cyclohexane
Concen: 17.21 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 56 Resp: 1303501

Ion	Ratio	Lower	Upper
56	100		
84	70.9	72.4	108.6#
41	68.5	43.8	65.8#

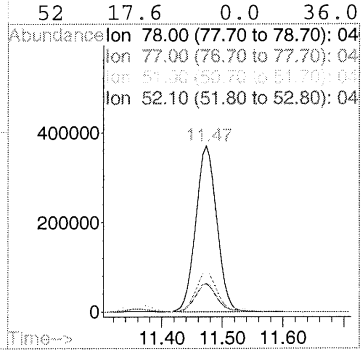


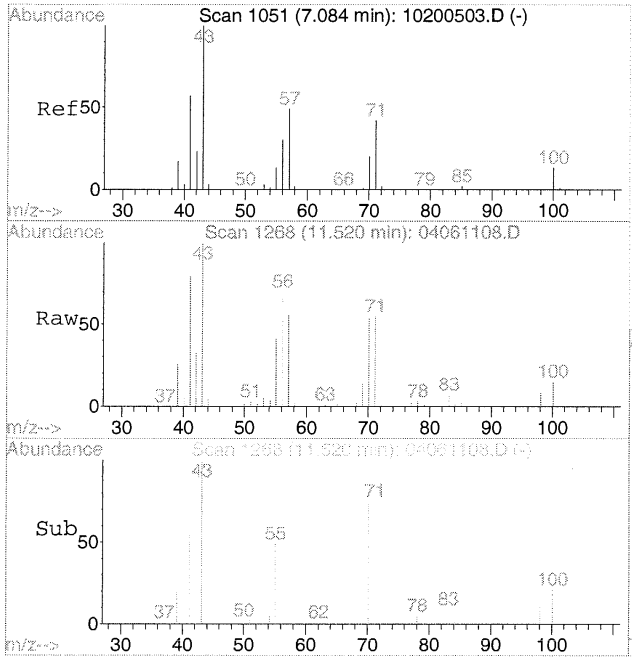


#31
Benzene
Concen: 7.13 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 78 Resp: 903009

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	19.7	0.0	36.1
52	17.6	0.0	36.0

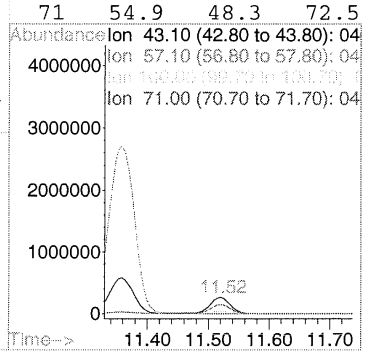


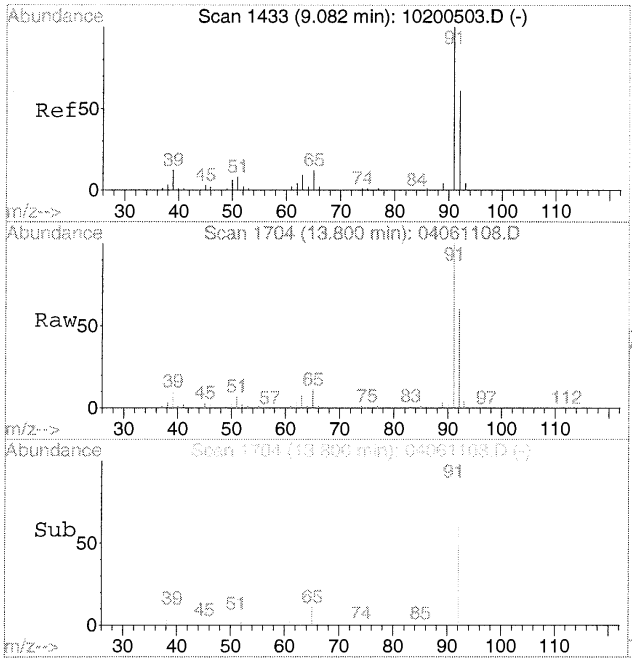


#34
Heptane
Concen: 6.93 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 43 Resp: 621511

Ion	Ratio	Lower	Upper
43	100		
57	56.0	42.2	63.4
100	14.5	17.3	25.9#
71	54.9	48.3	72.5

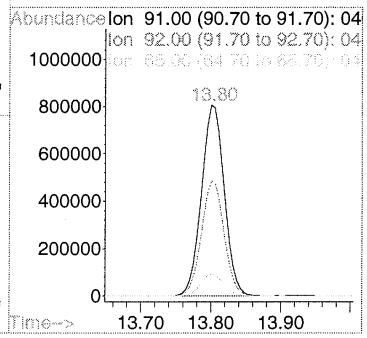


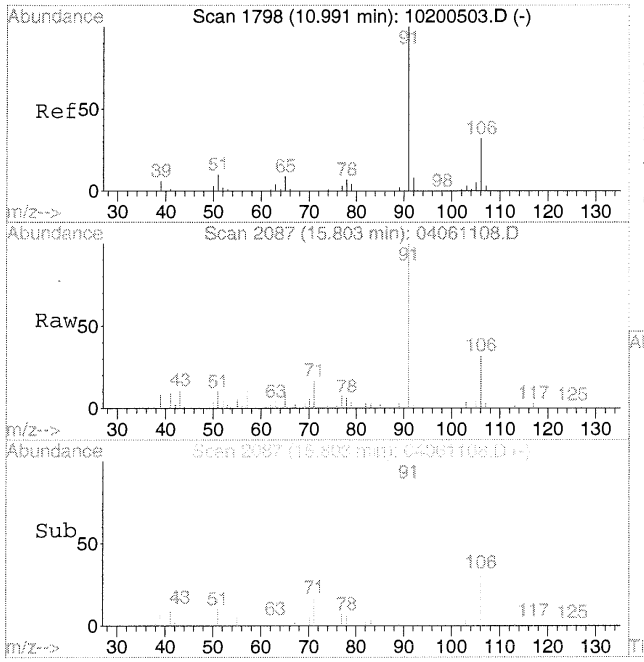


#41
Toluene
Concen: 13.09 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 91 Resp: 1830855

Ion	Ratio	Lower	Upper
91	100		
92	59.8	40.5	80.5
65	11.6	0.0	31.2

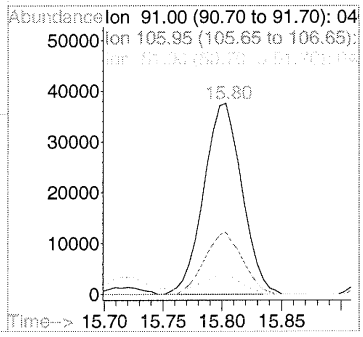


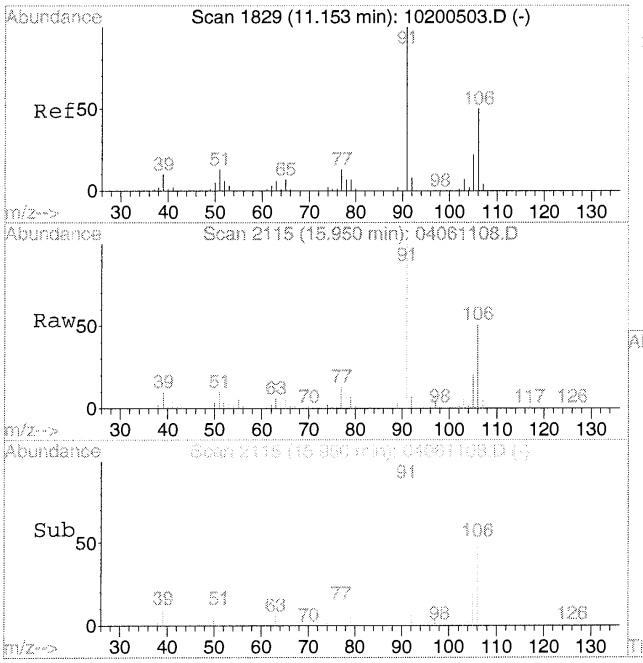


#50
Ethylbenzene
Concen: 0.53 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 91 Resp: 84371

Ion	Ratio	Lower	Upper
91	100		
106	32.1	14.9	54.9
51	11.0	0.0	33.1

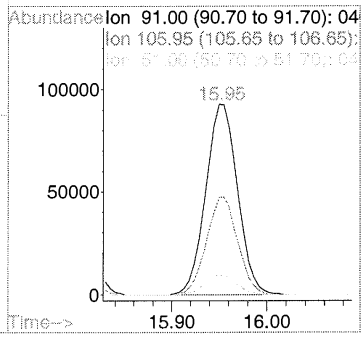


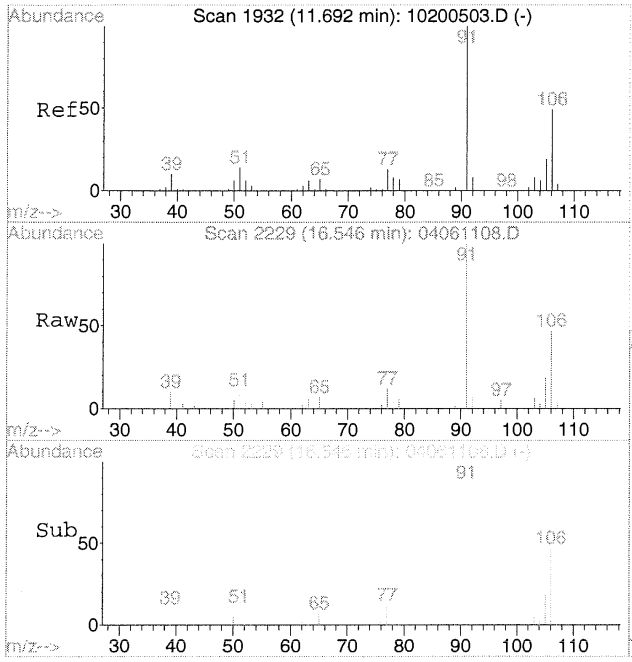


#51
m,p-Xylene
Concen: 1.75 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 91 Resp: 215081

Ion	Ratio	Lower	Upper
91	100		
106	50.1	35.6	75.6
51	10.3	0.0	29.6

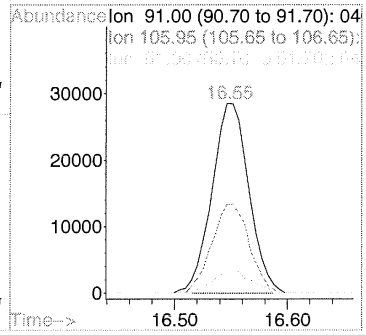




#52
o-Xylene
Concen: 0.54 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04061108.D
Acq: 6 Apr 2011 4:27 pm

Tgt Ion: 91 Resp: 65113

Ion	Ratio	Lower	Upper
91	100		
106	47.5	41.0	61.6
51	12.1	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	65	90	125	rBV	792104	4336335	23.08%	3.557%
2	6.332	256	276	288	rBV4	85014	332190	1.77%	0.272%
3	7.189	423	440	461	rBV	876436	2955960	15.73%	2.425%
4	7.566	492	512	533	rBV	1052190	3296206	17.54%	2.704%
5	8.188	618	631	645	rVB	139400	440720	2.35%	0.362%
6	8.769	724	742	761	rBV3	2428607	7889313	41.99%	6.472%
7	8.931	762	773	788	rVV	207923	621470	3.31%	0.510%
8	9.088	789	803	824	rVV	1041858	2913098	15.50%	2.390%
9	9.391	849	861	879	rVB	1677378	4162243	22.15%	3.414%
10	9.914	950	961	968	rBV	82938	232222	1.24%	0.190%
11	10.008	968	979	996	rVB	1095815	2911109	15.49%	2.388%
12	10.218	1004	1019	1042	rBV	1457749	3907395	20.80%	3.205%
13	10.761	1113	1123	1129	rBV	1113937	3020856	16.08%	2.478%
14	10.955	1146	1160	1167	rBV	2021171	5212306	27.74%	4.276%
15	11.033	1167	1175	1194	rVV2	2738265	7005948	37.29%	5.747%
16	11.206	1197	1208	1218	rVV	242852	650862	3.46%	0.534%
17	11.358	1218	1237	1250	rVV	6255462	18788682	100.00%	15.412%
18	11.473	1250	1259	1263	rVV2	1140027	2884797	15.35%	2.366%
19	11.525	1263	1269	1288	rVB3	1622693	4094070	21.79%	3.358%
20	11.860	1322	1333	1347	rBV	1828729	4185193	22.28%	3.433%
21	12.200	1386	1398	1405	rBV	358210	841983	4.48%	0.691%
22	12.283	1405	1414	1424	rVV2	861008	2211847	11.77%	1.814%
23	12.393	1424	1435	1457	rVV	2648728	7055656	37.55%	5.788%
24	12.571	1457	1469	1473	rVV3	134365	377240	2.01%	0.309%
25	12.623	1474	1479	1490	rVB2	165209	383873	2.04%	0.315%
26	12.796	1498	1512	1525	rBV	1678257	4238746	22.56%	3.477%
27	12.932	1525	1538	1541	rVV4	507292	1378235	7.34%	1.131%
28	12.984	1542	1548	1566	rVV	1379436	3714891	19.77%	3.047%
29	13.146	1569	1579	1596	rBV3	238052	845888	4.50%	0.694%
30	13.340	1606	1616	1630	rVB	720532	1777968	9.46%	1.458%
31	13.570	1645	1660	1667	rBV2	406026	1125762	5.99%	0.923%
32	13.669	1673	1679	1693	rVB	381183	855457	4.55%	0.702%
33	13.800	1693	1704	1720	rVB	1983743	4769464	25.38%	3.912%
34	14.077	1747	1757	1770	rVB4	205851	618786	3.29%	0.508%
35	14.198	1770	1780	1790	rVB5	75141	236254	1.26%	0.194%
36	14.825	1887	1900	1906	rVV	245881	660334	3.51%	0.542%
37	14.883	1906	1911	1919	rVV	153648	395125	2.10%	0.324%
38	15.019	1929	1937	1950	rVB3	108898	294151	1.57%	0.241%
39	15.197	1960	1971	1978	rBV3	111975	273490	1.46%	0.224%
40	15.714	2059	2070	2081	rBV	1948143	4519260	24.05%	3.707%
41	15.803	2082	2087	2098	rVV2	112760	308339	1.64%	0.253%
42	15.955	2108	2116	2127	rVB	285775	697786	3.71%	0.572%
43	16.551	2218	2230	2240	rBV	81766	202185	1.08%	0.166%

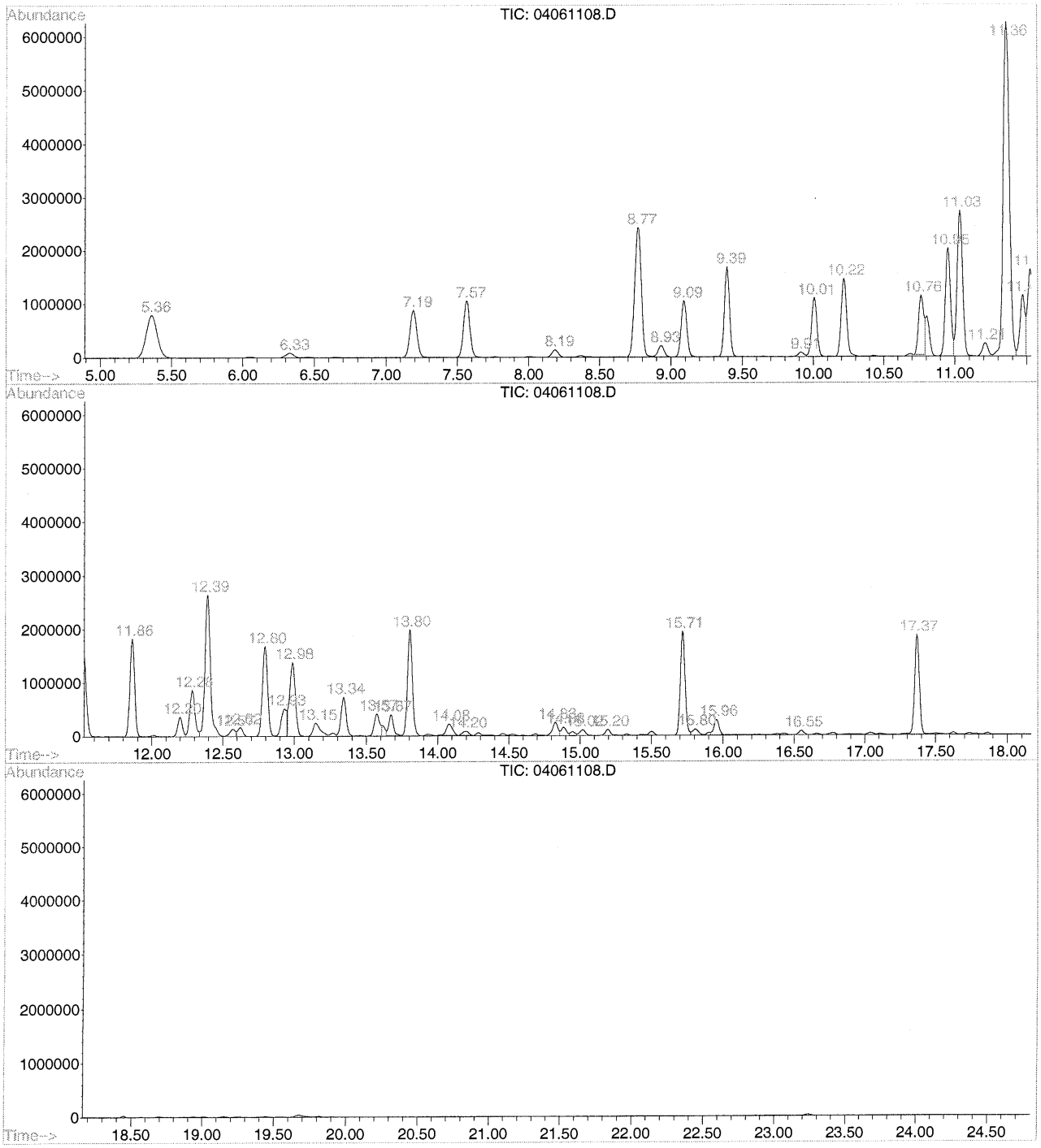
44	17.367	2359	2386	2400	rBV	1867826	4284096	22.80%	3.514%

Sum of corrected areas: 121907791

04061108.D 031611V1.M Thu Apr 14 13:13:57 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061108.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 4:27 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-018B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 6
Quant File :031611V1.RES (RTE Integrator)



04061108.D 031611V1.M Thu Apr 14 13:13:57 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	17.94 ppbv	4336340	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	12.23 ppbv	2955960	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Methane, isocyanato- $$ Isocyanic a	57	C2H3NO	000624-83-9	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	13.64 ppbv	3296210	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	32.65 ppbv	7889310	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	83
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	58

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Peak Number 5 Cyclopentane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	2.57 ppbv	621470	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	74
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	72
3	Cyclobutanone	70	C4H6O	001191-95-3	45
4	Cyclobutanone	70	C4H6O	001191-95-3	45
5	Cyclobutane, methyl- $$ Methylcyclo	70	C5H10	000598-61-8	40

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	12.05 ppbv	2913100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	12.05 ppbv	2911110	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	16.17 ppbv	3907400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	49
5	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	47

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	21.57 ppbv	5212310	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.69 ppbv	650862	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	74
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	53
4	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	38
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37

****

Peak Number 11 Pentane, 2,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	56.12 ppbv	18788700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
5	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	78

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.61 ppbv	2211850	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	64
3	Ether, heptyl hexyl	200	C13H28O	007289-40-9	64
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	21.07 ppbv	7055660	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 14 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	12.66 ppbv	4238750	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	74

****

Peak Number 15 Hexane, 2,3-dimethyl- $$ 2,3-D Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	4.12 ppbv	1378240	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	83
2	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
4	Octane, 4,5-dimethyl- $$ 4,5-Dimeth	142	C10H22	015869-96-2	59
5	Pyrrolidine	71	C4H9N	000123-75-1	59

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 4-methyl- $$ 4-Methyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	11.10 ppbv	3714890	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	59
2	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	50
3	Octane, 4-methyl-	128	C9H20	002216-34-4	50
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.53 ppbv	845888	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	53
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
4	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	50
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	45

****

Peak Number 18 Hexane, 2,2,5-trimethyl- $$ 2, Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	5.31 ppbv	1777970	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061108.D Vial: 6
Acq On : 6 Apr 2011 4:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	3.36 ppbv	1125760	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 20 Octane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	2.56 ppbv	855457	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
5	Octane	114	C8H18	000111-65-9	83

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 4:27 pm
Data File: C:\HPCHEM\1\DATA\040611\04061108.D
Name: 1103389-018B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	17.9	ppbv	4336340	ISTD01	10.76	3020860	12.5
Butane, 2-methyl-	7.19	12.2	ppbv	2955960	ISTD01	10.76	3020860	12.5
Pentane $$ n-Pentane	7.57	13.6	ppbv	3296210	ISTD01	10.76	3020860	12.5
Pentane, 2-methyl-	8.77	32.6	ppbv	7889310	ISTD01	10.76	3020860	12.5
Cyclopentane	8.93	2.6	ppbv	621470	ISTD01	10.76	3020860	12.5
Pentane, 3-methyl-	9.09	12.1	ppbv	2913100	ISTD01	10.76	3020860	12.5
Pentane, 2,4-dimethy	10.01	12.0	ppbv	2911110	ISTD01	10.76	3020860	12.5
Cyclopentane, methyl	10.22	16.2	ppbv	3907400	ISTD01	10.76	3020860	12.5
Pentane, 2,3-dimethy	10.96	21.6	ppbv	5212310	ISTD01	10.76	3020860	12.5
Cyclopentane, 1,1-di	11.21	2.7	ppbv	650862	ISTD01	10.76	3020860	12.5
Pentane, 2,2,4-trime	11.36	56.1	ppbv	18788700	ISTD02	11.86	4185190	12.5
Hexane, 2,4-dimethyl	12.28	6.6	ppbv	2211850	ISTD02	11.86	4185190	12.5
Cyclohexane, methyl-	12.39	21.1	ppbv	7055660	ISTD02	11.86	4185190	12.5
Pentane, 2,3,4-trime	12.80	12.7	ppbv	4238750	ISTD02	11.86	4185190	12.5
Hexane, 2,3-dimethyl	12.93	4.1	ppbv	1378240	ISTD02	11.86	4185190	12.5
Heptane, 4-methyl- $	12.98	11.1	ppbv	3714890	ISTD02	11.86	4185190	12.5
Heptane, 3-methyl-	13.15	2.5	ppbv	845888	ISTD02	11.86	4185190	12.5
Hexane, 2,2,5-trimet	13.34	5.3	ppbv	1777970	ISTD02	11.86	4185190	12.5
Cyclohexane, 1,3-dim	13.57	3.4	ppbv	1125760	ISTD02	11.86	4185190	12.5
Octane	13.67	2.6	ppbv	855457	ISTD02	11.86	4185190	12.5

04061108.D 031611V1.M Thu Apr 14 13:13:58 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

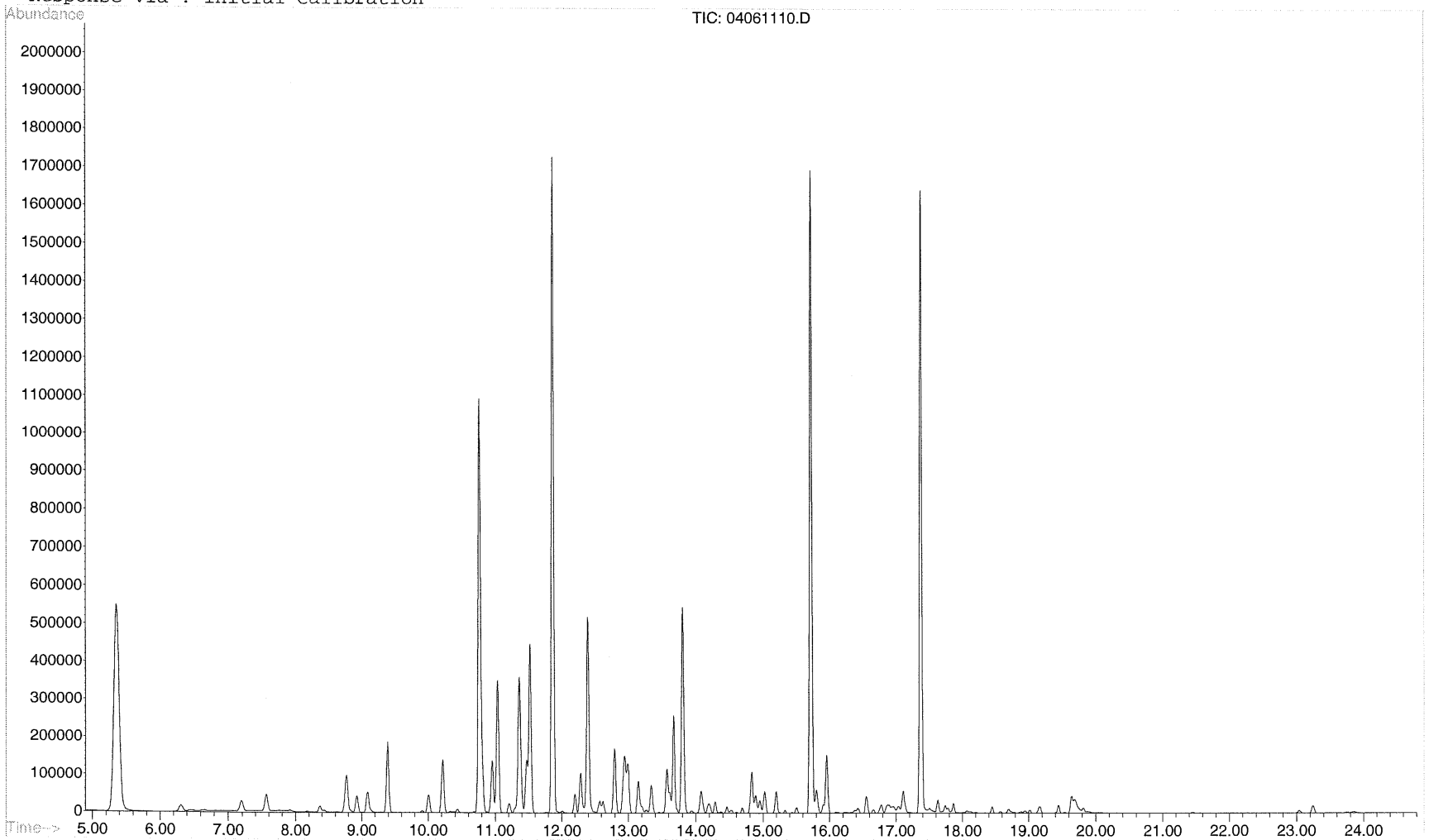
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	490678	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1746666	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1202987	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	756220	12.54	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.32%				
Target Compounds							Qvalue
14) Acetone	8.37	43	34410	0.57	ppbv	#	94
17) Methylene chloride	8.92	49	26757	0.54	ppbv		93
20) n-Hexane	9.39	57	117489	1.64	ppbv		95
29) Cyclohexane	11.04	56	162228	2.24	ppbv	#	76
31) Benzene	11.47	78	103442	0.85	ppbv		94
34) Heptane	11.52	43	208150	2.47	ppbv	#	93
41) Toluene	13.80	91	505184	3.84	ppbv		98
51) m,p-Xylene	15.95	91	116968	1.08	ppbv		93

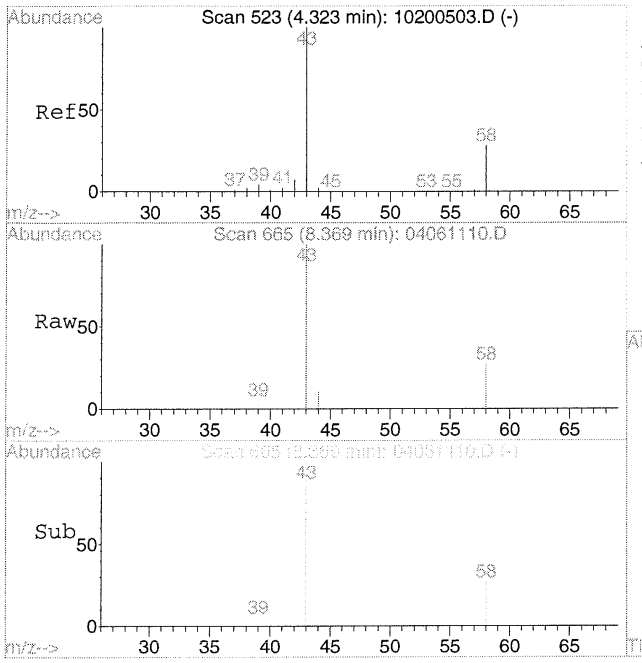
(#) = qualifier out of range (m) = manual integration
04061110.D 031611V1.M Thu Apr 14 13:14:10 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

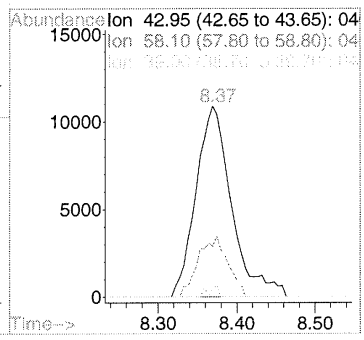


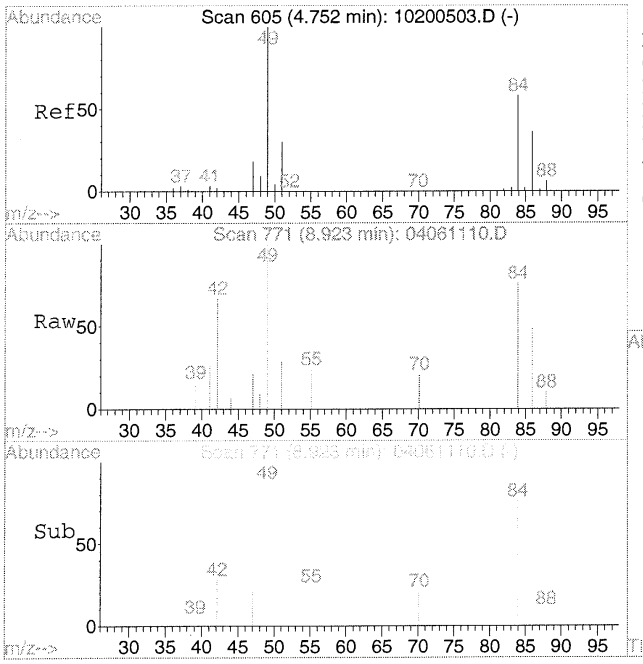


#14
Acetone
Concen: 0.57 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 43 Resp: 34410

Ion	Ratio	Lower	Upper
43	100		
58	26.4	22.0	33.0
39	1.6	6.5	9.7#

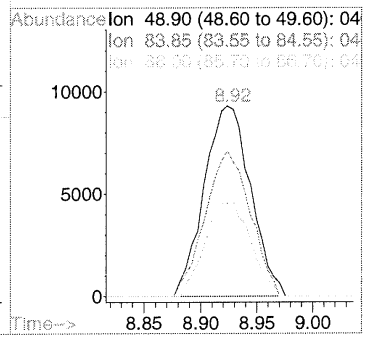


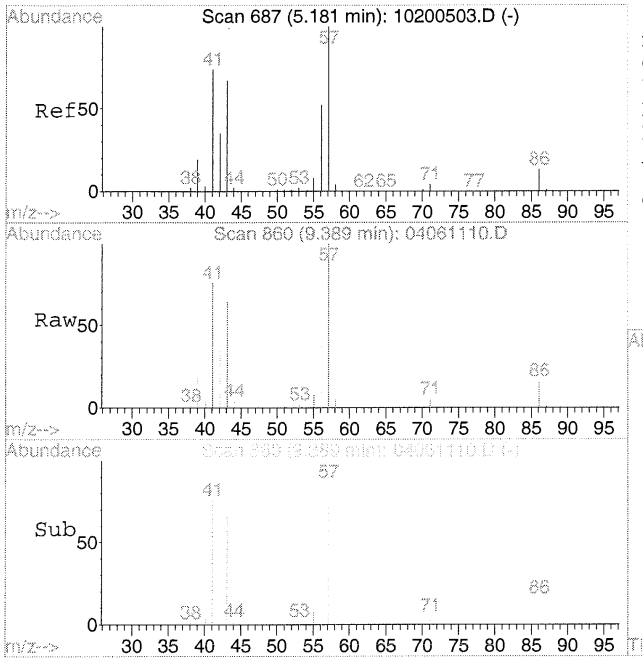


#17
Methylene chloride
Concen: 0.54 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 49 Resp: 26757

Ion	Ratio	Lower	Upper
49	100		
84	74.2	65.4	98.2
86	48.8	42.3	63.5

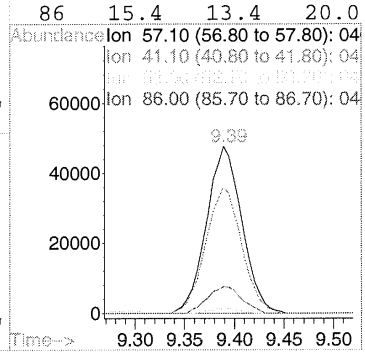


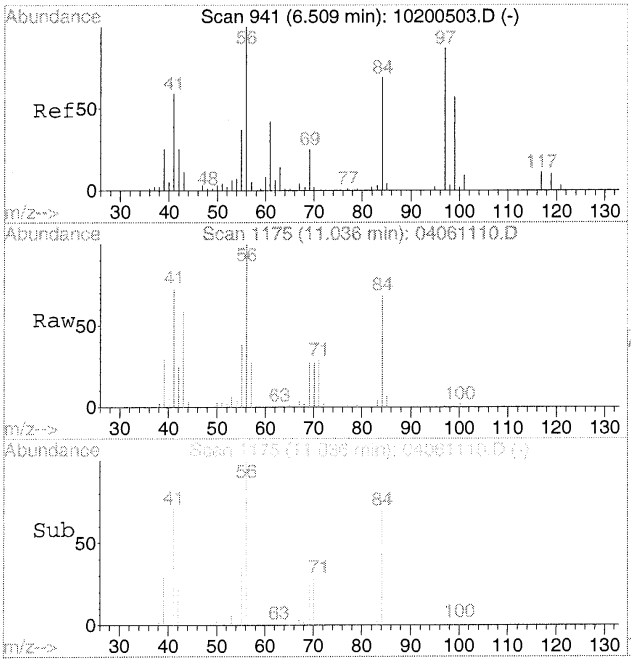


#20
n-Hexane
Concen: 1.64 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 57 Resp: 117489

Ion	Ratio	Lower	Upper
57	100		
41	76.4	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

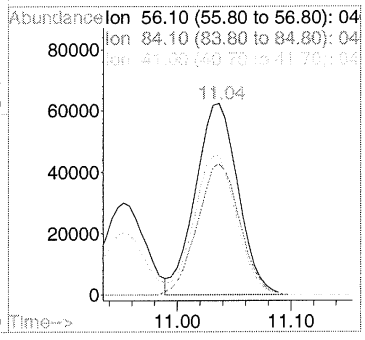


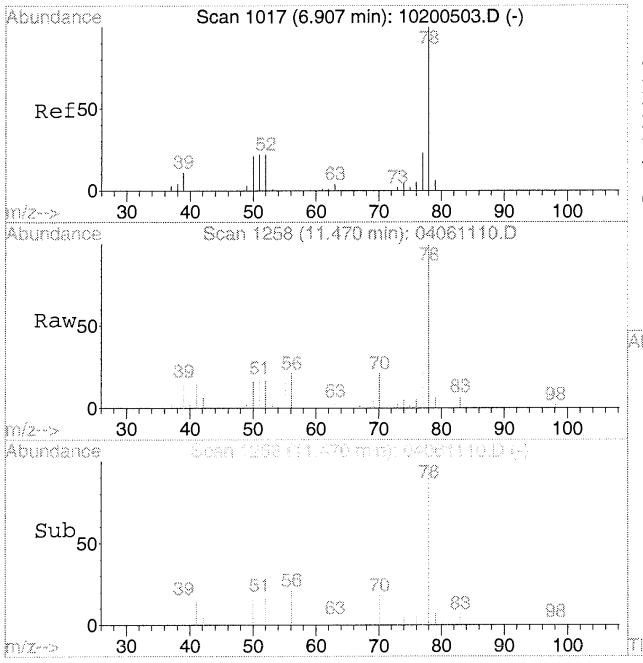


#29
Cyclohexane
Concen: 2.24 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 56 Resp: 162228

Ion	Ratio	Lower	Upper
56	100		
84	68.3	72.4	108.6#
41	72.9	43.8	65.8#

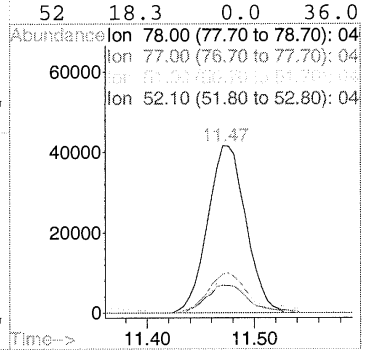


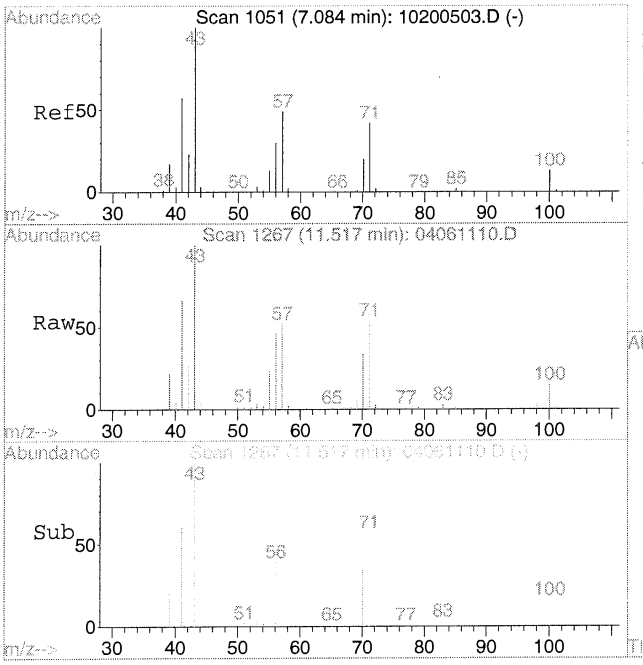


#31
Benzene
Concen: 0.85 ppbv
RT: 11.47 min Scan# 1258
Delta R.T. 0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 78 Resp: 103442

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	21.9	0.0	36.1
52	18.3	0.0	36.0

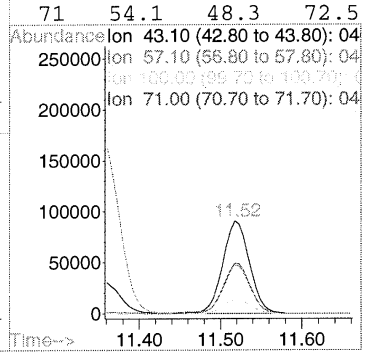


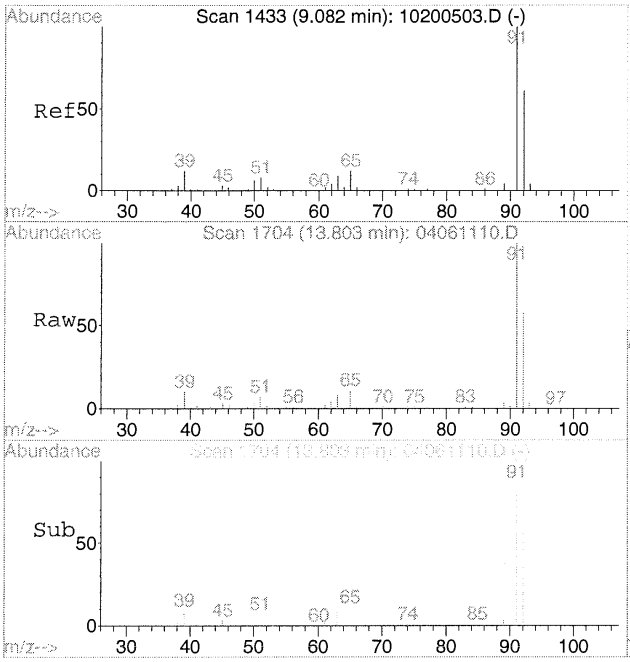


#34
Heptane
Concen: 2.47 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 43 Resp: 208150

Ion	Ratio	Lower	Upper
43	100		
57	54.1	42.2	63.4
100	15.2	17.3	25.9#
71	54.1	48.3	72.5

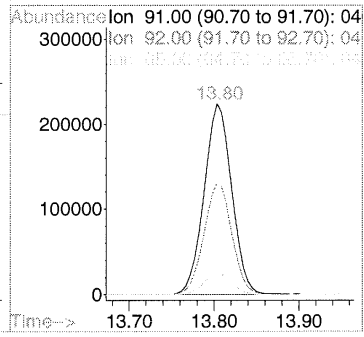


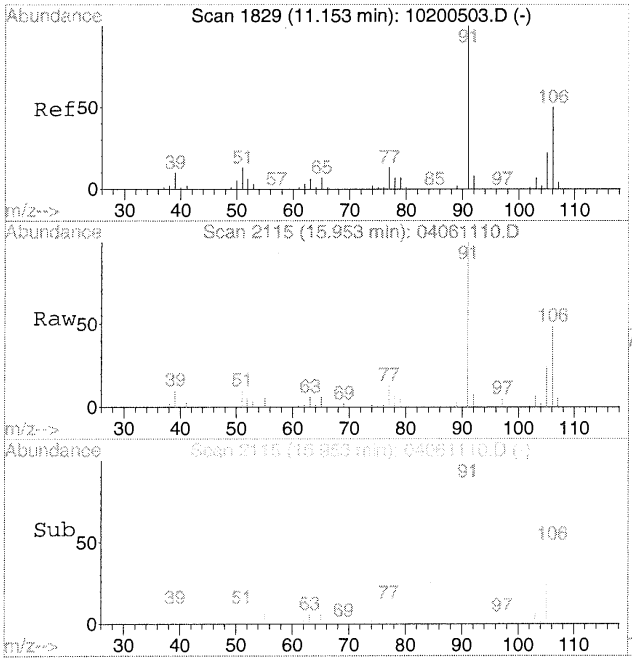


#41
Toluene
Concen: 3.84 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 91 Resp: 505184

Ion	Ratio	Lower	Upper
91	100		
92	58.6	40.5	80.5
65	11.2	0.0	31.2

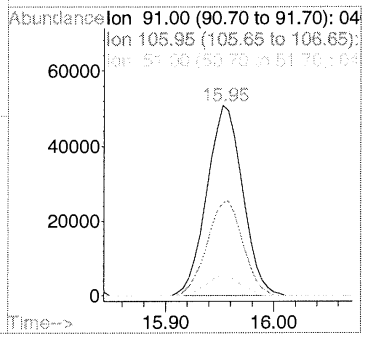




#51
m,p-Xylene
Concen: 1.08 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 91 Resp: 116968

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.2	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.351	59	88	130	rBV	549180	3038471	77.61%	9.860%
2	6.308	259	271	283	rBV4	16893	60322	1.54%	0.196%
3	7.187	428	439	453	rVB2	27180	90685	2.32%	0.294%
4	7.564	497	511	523	rBV3	43526	134854	3.44%	0.438%
5	8.374	655	666	673	rBV2	15679	45948	1.17%	0.149%
6	8.766	726	741	761	rVV3	97667	316788	8.09%	1.028%
7	8.929	761	772	785	rVB3	43401	118106	3.02%	0.383%
8	9.085	793	802	821	rVB2	53289	158424	4.05%	0.514%
9	9.389	850	860	873	rBV	186857	464192	11.86%	1.506%
10	10.006	968	978	988	rVB	45667	120240	3.07%	0.390%
11	10.215	1007	1018	1032	rVB	140097	364830	9.32%	1.184%
12	10.764	1111	1123	1141	rVB	1092191	2922430	74.65%	9.484%
13	10.953	1147	1159	1166	rBV	136905	350286	8.95%	1.137%
14	11.036	1166	1175	1187	rVB	351720	899438	22.97%	2.919%
15	11.209	1200	1208	1216	rBB2	24354	61701	1.58%	0.200%
16	11.361	1217	1237	1250	rBV	359912	1093673	27.93%	3.549%
17	11.470	1250	1258	1261	rVV2	140763	320117	8.18%	1.039%
18	11.523	1261	1268	1280	rVB2	447802	1106452	28.26%	3.591%
19	11.863	1322	1333	1347	rBV	1729006	3915101	100.00%	12.705%
20	12.197	1389	1397	1405	rBV4	49670	115236	2.94%	0.374%
21	12.286	1405	1414	1423	rVV2	103851	268295	6.85%	0.871%
22	12.391	1424	1434	1451	rVB2	517514	1300462	33.22%	4.220%
23	12.574	1458	1469	1474	rBV4	32521	87712	2.24%	0.285%
24	12.626	1474	1479	1487	rVB2	31307	65972	1.69%	0.214%
25	12.794	1501	1511	1525	rBB2	170728	431913	11.03%	1.402%
26	12.945	1526	1540	1544	rBV5	150782	444726	11.36%	1.443%
27	13.149	1570	1579	1595	rBV	83490	248017	6.33%	0.805%
28	13.338	1607	1615	1628	rVB2	73145	180454	4.61%	0.586%
29	13.573	1650	1660	1666	rBV2	115409	296397	7.57%	0.962%
30	13.672	1672	1679	1694	rVB	256938	564006	14.41%	1.830%
31	13.803	1694	1704	1721	rVB	545635	1289309	32.93%	4.184%
32	14.075	1748	1756	1769	rVB6	57508	163107	4.17%	0.529%
33	14.195	1769	1779	1788	rBV6	24374	77144	1.97%	0.250%
34	14.284	1788	1796	1804	rBV2	29775	62464	1.60%	0.203%
35	14.828	1888	1900	1906	rBV2	108448	273942	7.00%	0.889%
36	14.891	1907	1912	1917	rVV2	45615	102782	2.63%	0.334%
37	14.948	1917	1923	1930	rVV3	33253	86143	2.20%	0.280%
38	15.022	1930	1937	1946	rVB3	57505	140455	3.59%	0.456%
39	15.200	1960	1971	1980	rBV3	56710	133105	3.40%	0.432%
40	15.717	2059	2070	2081	rBV	1695626	3852340	98.40%	12.501%
41	15.801	2081	2086	2098	rVV2	61332	158448	4.05%	0.514%
42	15.906	2098	2106	2108	rVV3	23282	43634	1.11%	0.142%
43	15.958	2108	2116	2126	rVB	152430	363624	9.29%	1.180%

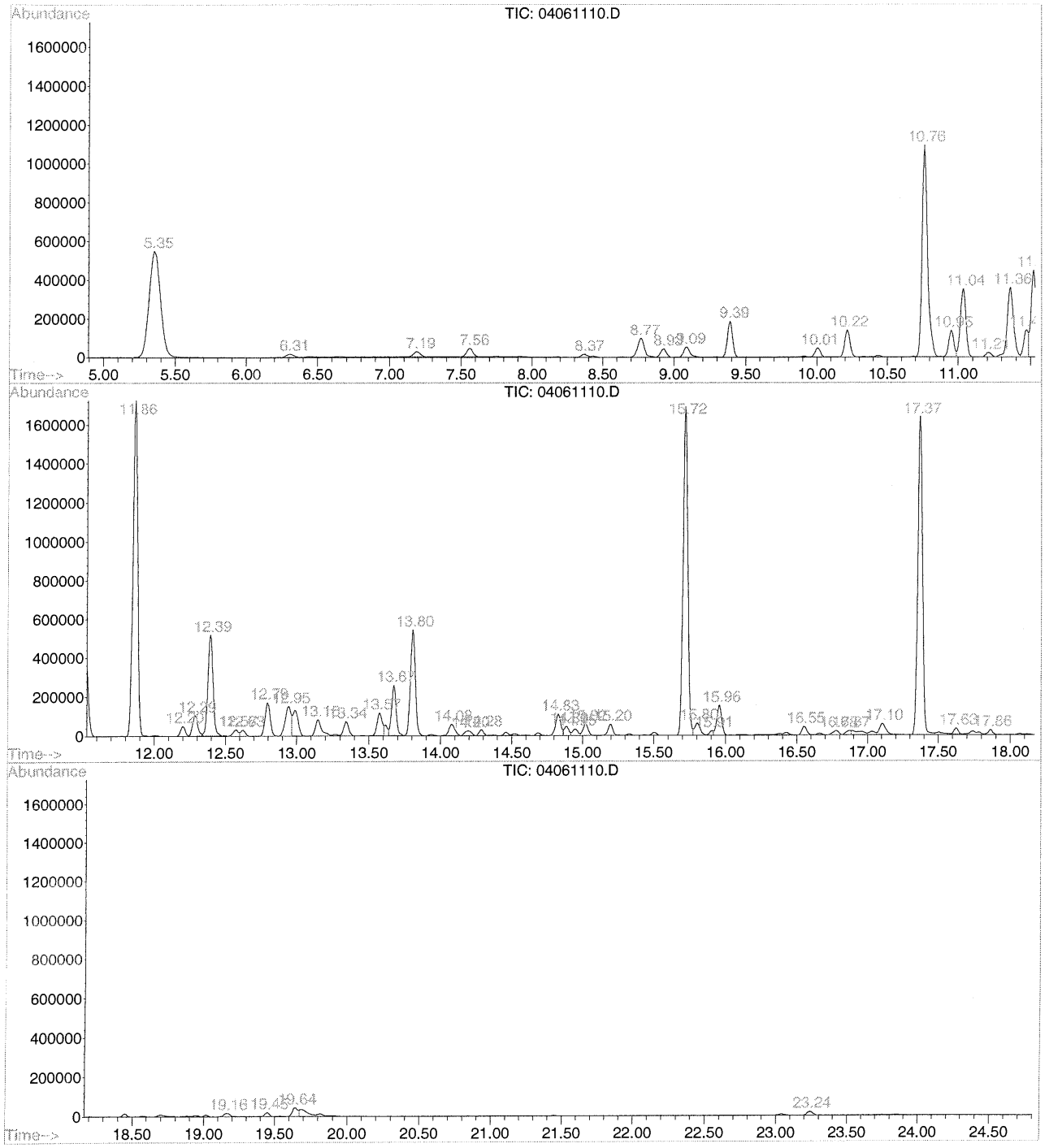
44	16.549	2221	2229	2240	rBB2	44060	106014	2.71%	0.344%
45	16.779	2261	2273	2280	rBV7	21360	61187	1.56%	0.199%
46	16.868	2280	2290	2293	rBV5	20486	53969	1.38%	0.175%
47	17.103	2327	2335	2351	rVB	55867	162748	4.16%	0.528%
48	17.370	2374	2386	2406	rBV	1642798	3709775	94.76%	12.039%
49	17.626	2428	2435	2443	rVB2	31422	63236	1.62%	0.205%
50	17.862	2472	2480	2489	rVB2	25501	52985	1.35%	0.172%
51	19.159	2719	2728	2739	rBV7	17159	50029	1.28%	0.162%
52	19.446	2776	2783	2792	rVB2	20701	43906	1.12%	0.142%
53	19.640	2810	2820	2826	rBV2	44073	129055	3.30%	0.419%
54	23.238	3499	3508	3518	rBB3	18984	51244	1.31%	0.166%

Sum of corrected areas: 30815893

04061110.D 031611V1.M Thu Apr 14 13:14:16 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061110.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 5:50 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-019B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 1
Quant File :031611V1.RES (RTE Integrator)



04061110.D 031611V1.M Thu Apr 14 13:14:17 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	13.00 ppbv	3038470	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane $$ n-Pentane $$ Skelly Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	0.58 ppbv	134854	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	56
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	9
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	7

****

Peak Number 3 Pentane, 2-methyl- $$ Isohexan Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	1.35 ppbv	316788	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	0.68 ppbv	158424	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	83
2	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	83
3	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	43
4	Propanedioic acid, oxo-, bis(2-meth	230	C11H18O5	092778-43-3	12
5	Diazene, bis(1,1-dimethylethyl)- $$	142	C8H18N2	000927-83-3	9

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	0.51 ppbv	120240	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	50
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	45

****

Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	1.56 ppbv	364830	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	1.50 ppbv	350286	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 8 Butane, 2,2,3,3-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	3.49 ppbv	1093670	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 9 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	0.86 ppbv	268295	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	50
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	38
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	37
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	37
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	32

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	4.15 ppbv	1300460	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	58

****

Peak Number 11 Pentane, 2,3,4-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	1.38 ppbv	431913	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
2	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	64
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59

****

Peak Number 12 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	1.42 ppbv	444726	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	80
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	74
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	72
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	0.79 ppbv	248017	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	64
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	64
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47
5	Heptane, 4-ethyl- $$ 4-Ethylheptane	128	C9H20	002216-32-2	47

****

Peak Number 14 Hexane, 2,2,5-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	0.58 ppbv	180454	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
3	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 15 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.95 ppbv	296397	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	87
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	86

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.80 ppbv	564006	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
3	Octane	114	C8H18	000111-65-9	64
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	56
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	50

****

Peak Number 17 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.07	0.53 ppbv	163107	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	95
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87

****

Peak Number 18 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.89 ppbv	273942	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Ethylbenzene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	0.51 ppbv	158448	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	91
2	Ethylbenzene $$ Benzene, ethyl- $$	106	C8H10	000100-41-4	90
3	Ethylbenzene	106	C8H10	000100-41-4	80
4	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	53
5	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	53

****

Peak Number 20 Acetamide, N,N-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.10	0.53 ppbv	162748	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N,N-dimethyl-	87	C4H9NO	000127-19-5	90
2	Acetamide, N,N-dimethyl-	87	C4H9NO	000127-19-5	83
3	2-Propanone, O-methyloxime $$ Aceto	87	C4H9NO	003376-35-0	25
4	Acetamide, N,N-dimethyl- $$ Acetdim	87	C4H9NO	000127-19-5	17
5	Hexanal $$ n-Caproaldehyde $$ n-Hex	100	C6H12O	000066-25-1	9

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 5:50 pm
Data File: C:\HPCHEM\1\DATA\040611\04061110.D
Name: 1103389-019B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	13.0	ppbv	3038470	ISTD01	10.76	2922430	12.5
Pentane $$ n-Pentane	7.56	0.6	ppbv	134854	ISTD01	10.76	2922430	12.5
Pentane, 2-methyl- $	8.77	1.4	ppbv	316788	ISTD01	10.76	2922430	12.5
Pentane, 3-methyl-	9.09	0.7	ppbv	158424	ISTD01	10.76	2922430	12.5
Pentane, 2,4-dimethy	10.01	0.5	ppbv	120240	ISTD01	10.76	2922430	12.5
Cyclopentane, methyl	10.22	1.6	ppbv	364830	ISTD01	10.76	2922430	12.5
Pentane, 2,3-dimethy	10.95	1.5	ppbv	350286	ISTD01	10.76	2922430	12.5
Butane, 2,2,3,3-tetr	11.36	3.5	ppbv	1093670	ISTD02	11.86	3915100	12.5
Hexane, 2,4-dimethyl	12.29	0.9	ppbv	268295	ISTD02	11.86	3915100	12.5
Cyclohexane, methyl-	12.39	4.2	ppbv	1300460	ISTD02	11.86	3915100	12.5
Pentane, 2,3,4-trime	12.79	1.4	ppbv	431913	ISTD02	11.86	3915100	12.5
Heptane, 2-methyl-	12.95	1.4	ppbv	444726	ISTD02	11.86	3915100	12.5
Heptane, 3-methyl-	13.15	0.8	ppbv	248017	ISTD02	11.86	3915100	12.5
Hexane, 2,2,5-trimet	13.34	0.6	ppbv	180454	ISTD02	11.86	3915100	12.5
Cyclohexane, 1,3-dim	13.57	0.9	ppbv	296397	ISTD02	11.86	3915100	12.5
Octane	13.67	1.8	ppbv	564006	ISTD02	11.86	3915100	12.5
Cyclohexane, 1,2-dim	14.07	0.5	ppbv	163107	ISTD03	15.72	3852340	12.5
Cyclohexane, ethyl-	14.83	0.9	ppbv	273942	ISTD03	15.72	3852340	12.5
Ethylbenzene	15.80	0.5	ppbv	158448	ISTD03	15.72	3852340	12.5
Acetamide, N,N-dimet	17.10	0.5	ppbv	162748	ISTD03	15.72	3852340	12.5

04061110.D 031611V1.M Thu Apr 14 13:14:17 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061111.D Vial: 1
Acq On : 6 Apr 2011 6:33 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

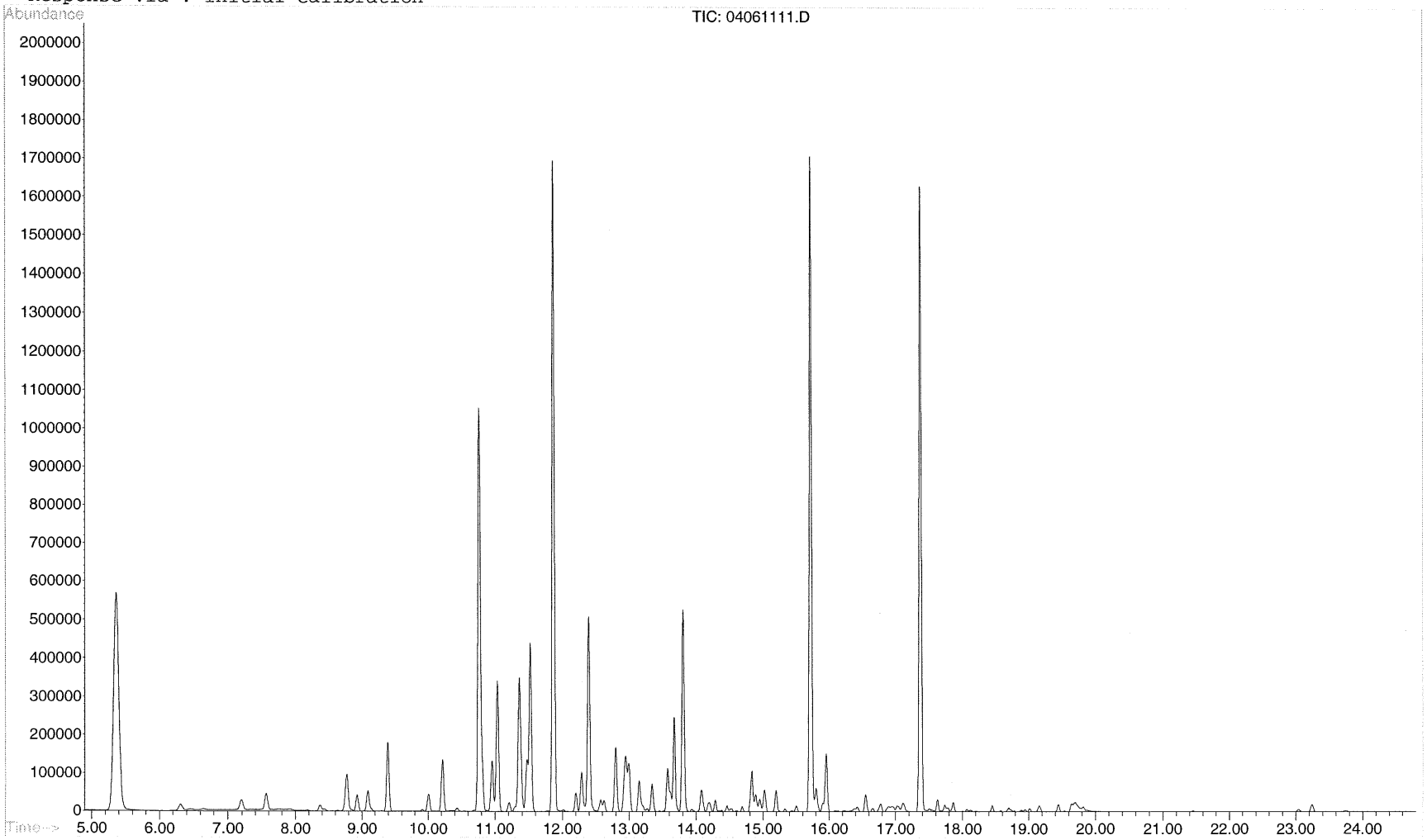
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	486908	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1742841	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1217097	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	757235	12.41	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.28%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	26062	0.53	ppbv		90
20) n-Hexane	9.39	57	115078	1.62	ppbv		95
29) Cyclohexane	11.03	56	155805	2.16	ppbv	#	76
31) Benzene	11.47	78	101777	0.85	ppbv		93
34) Heptane	11.52	43	203954	2.42	ppbv	#	93
41) Toluene	13.81	91	498976	3.80	ppbv		98
51) m,p-Xylene	15.96	91	116066	1.06	ppbv		93

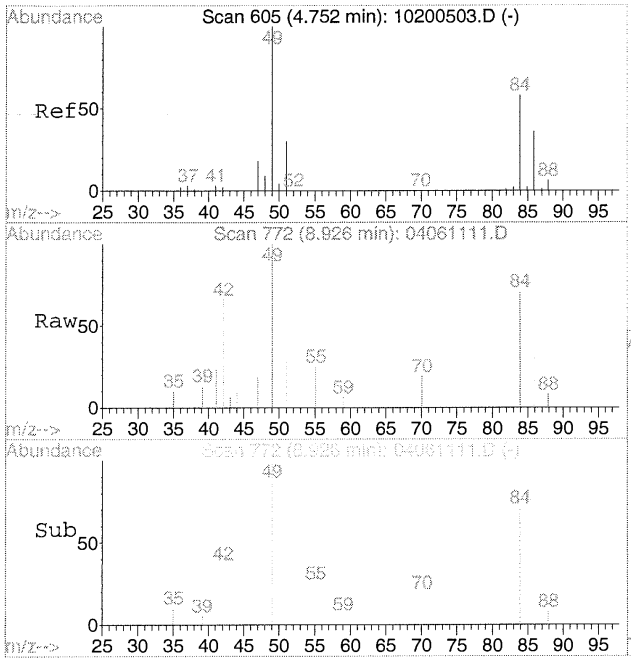
(#) = qualifier out of range (m) = manual integration
04061111.D 031611V1.M Thu Apr 14 13:14:21 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061111.D Vial: 1
Acq On : 6 Apr 2011 6:33 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

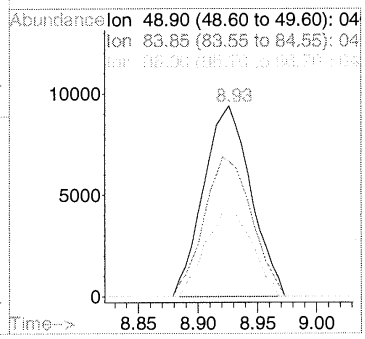


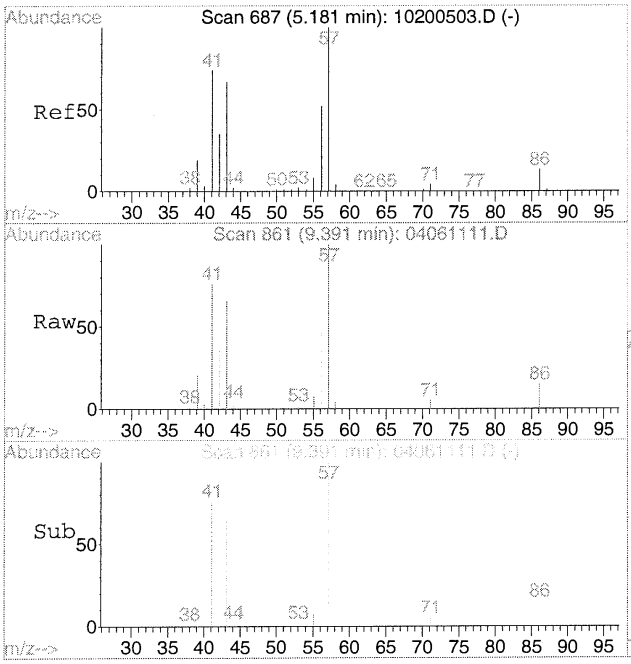


#17
Methylene chloride
Concen: 0.53 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 49 Resp: 26062

Ion	Ratio	Lower	Upper
49	100		
84	73.7	65.4	98.2
86	45.3	42.3	63.5

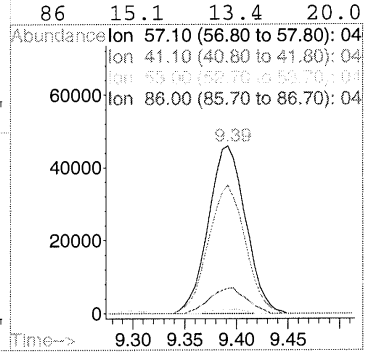


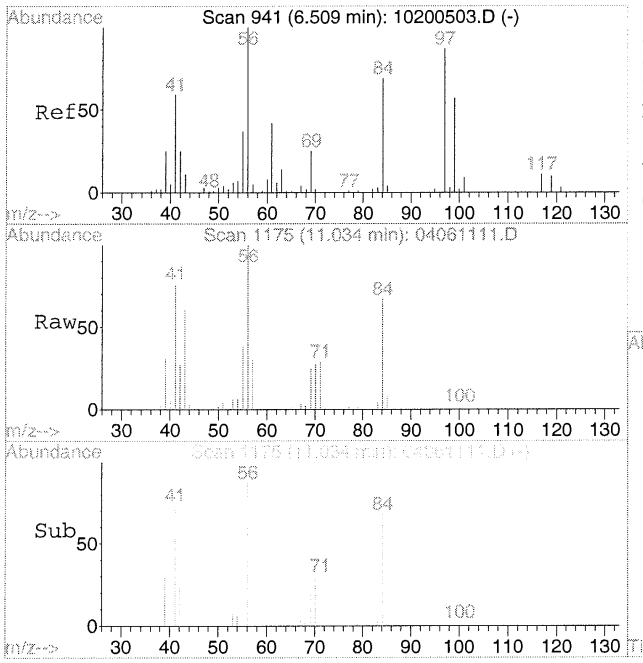


#20
n-Hexane
Concen: 1.62 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 57 Resp: 115078

Ion	Ratio	Lower	Upper
57	100		
41	75.6	57.2	85.8
53	2.1	1.8	2.8
86	15.1	13.4	20.0

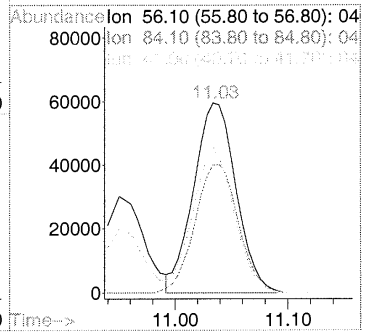


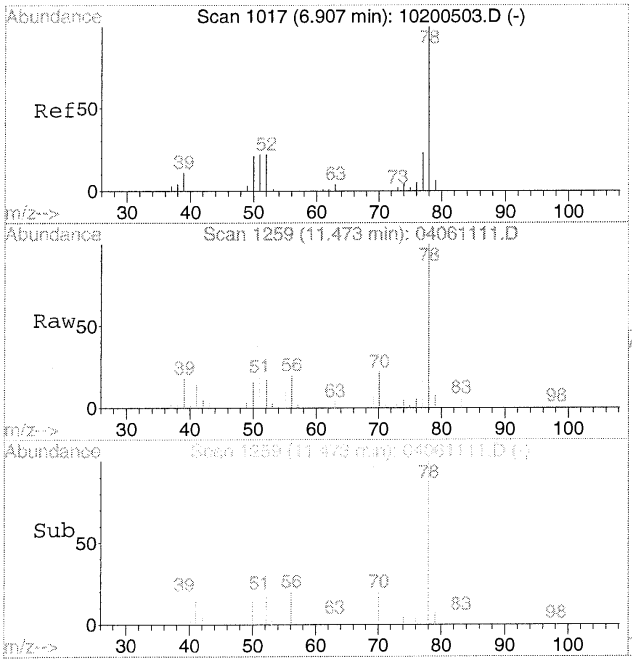


#29
Cyclohexane
Concen: 2.16 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 56 Resp: 155805

Ion	Ratio	Lower	Upper
56	100		
84	68.7	72.4	108.6#
41	74.1	43.8	65.8#

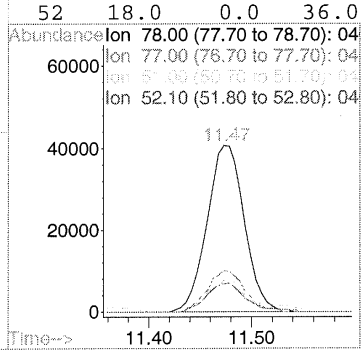


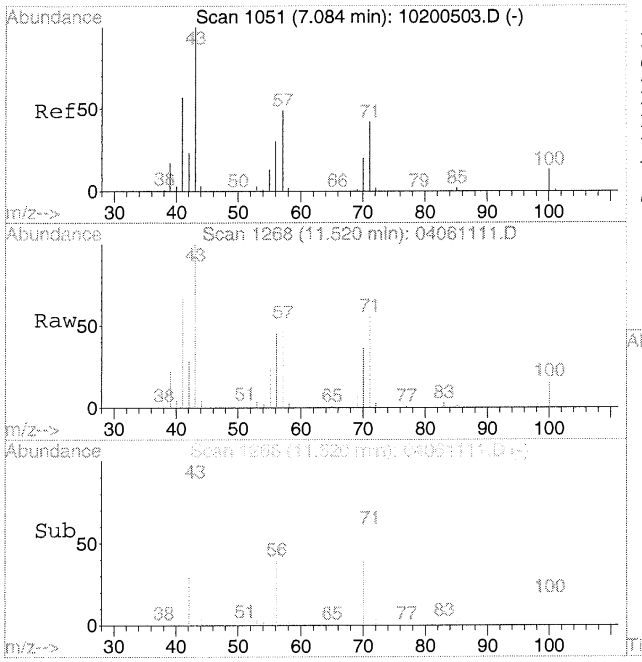


#31
Benzene
Concen: 0.85 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 78 Resp: 101777

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	22.3	0.0	36.1
52	18.0	0.0	36.0

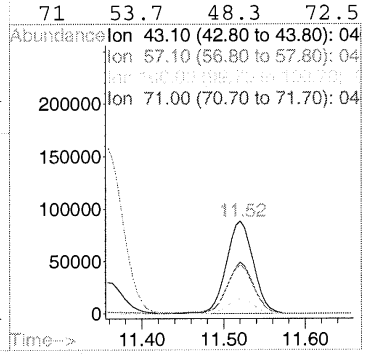


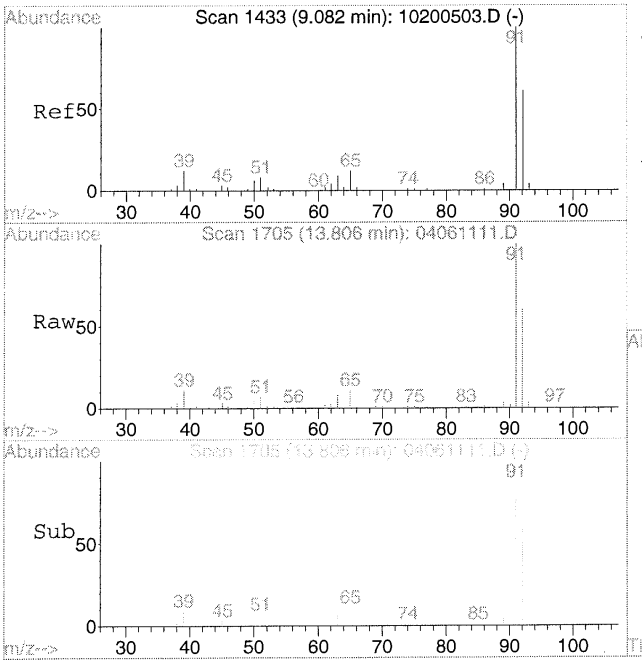


#34
Heptane
Concen: 2.42 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 43 Resp: 203954

Ion	Ratio	Lower	Upper
43	100		
57	53.8	42.2	63.4
100	15.0	17.3	25.9#
71	53.7	48.3	72.5

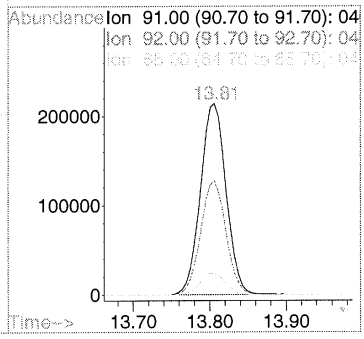


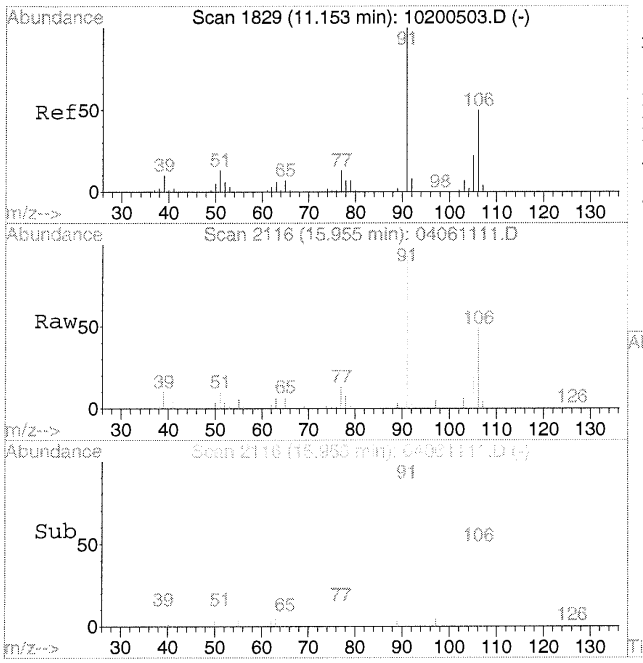


#41
Toluene
Concen: 3.80 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 91 Resp: 498976

Ion	Ratio	Lower	Upper
91	100		
92	58.9	40.5	80.5
65	11.1	0.0	31.2

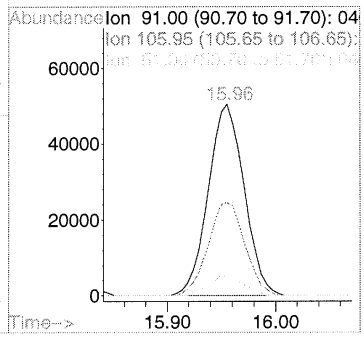




#51
m,p-Xylene
Concen: 1.06 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 91 Resp: 116066

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

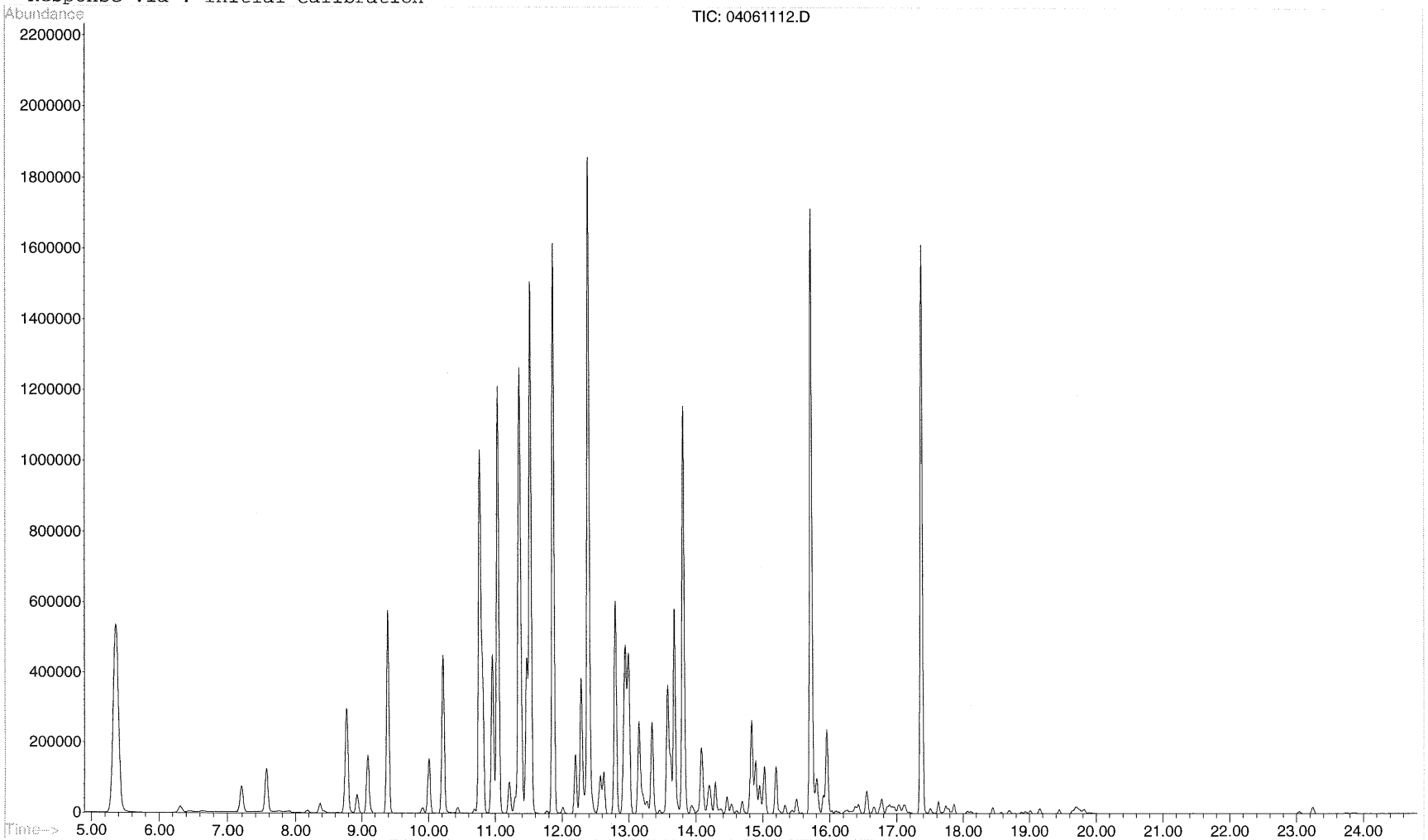
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	470556	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.87	114	1662762	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1178453	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	738012	12.50	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.00%			
Target Compounds						Qvalue
14) Acetone	8.37	43	55720	0.96	ppbv #	96
20) n-Hexane	9.39	57	360219	5.24	ppbv	95
29) Cyclohexane	11.03	56	543194	7.81	ppbv #	75
31) Benzene	11.47	78	302073	2.60	ppbv	93
34) Heptane	11.52	43	683628	8.51	ppbv #	93
41) Toluene	13.81	91	1048421	8.37	ppbv	98
50) Ethylbenzene	15.80	91	81309	0.59	ppbv	95
51) m,p-Xylene	15.96	91	171795	1.62	ppbv	93

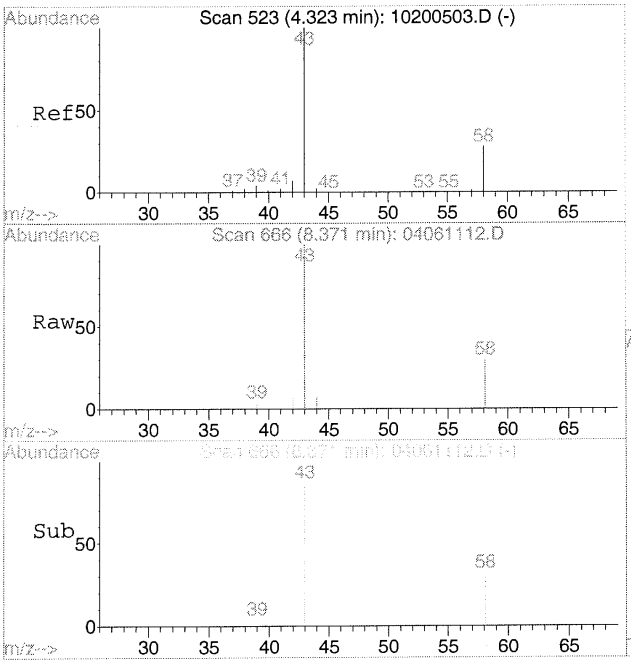
(#) = qualifier out of range (m) = manual integration
04061112.D 031611V1.M Thu Apr 14 13:14:29 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

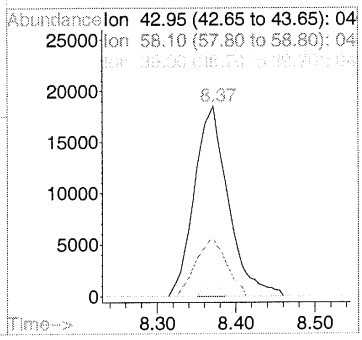


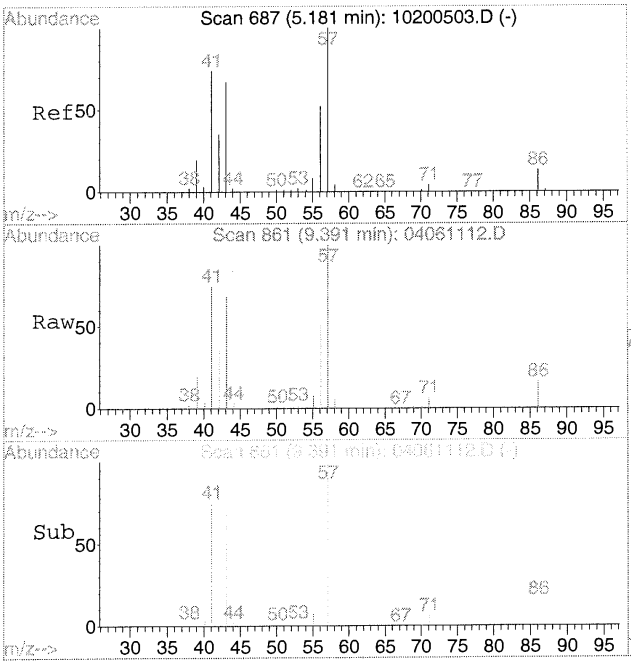


#14
Acetone
Concen: 0.96 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.01 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 43 Resp: 55720

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.0	33.0
39	2.4	6.5	9.7#

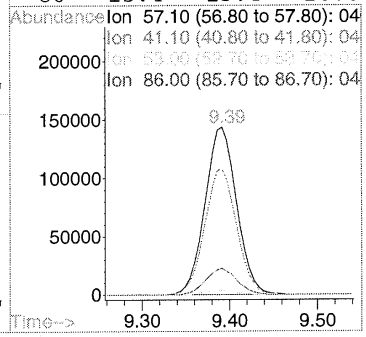


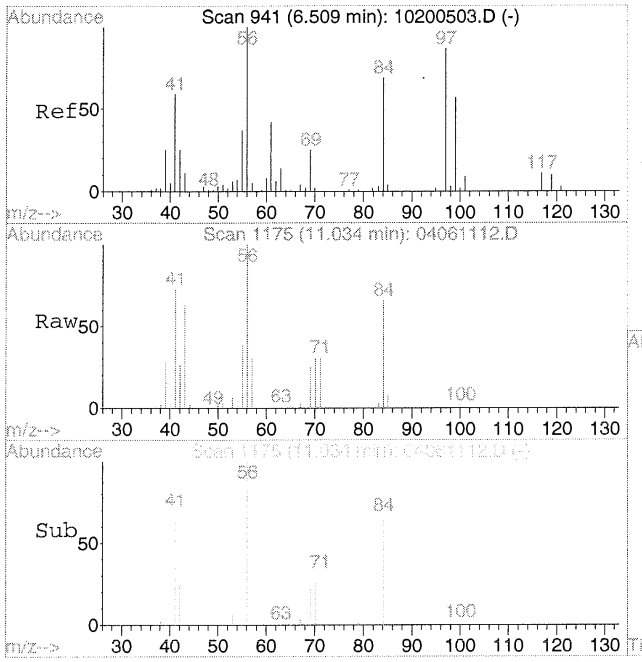


#20
n-Hexane
Concen: 5.24 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 57 Resp: 360219

Ion	Ratio	Lower	Upper
57	100		
41	76.0	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

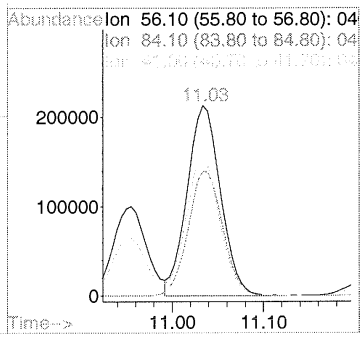


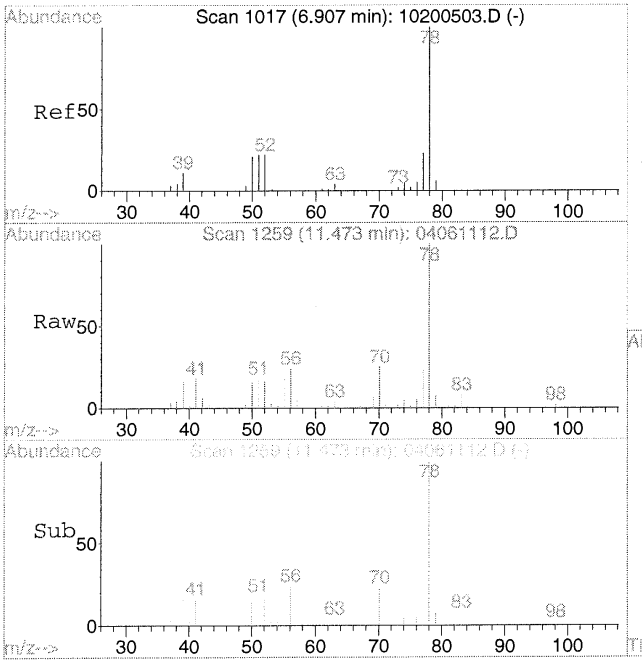


#29
Cyclohexane
Concen: 7.81 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 56 Resp: 543194

Ion	Ratio	Lower	Upper
56	100		
84	67.4	72.4	108.6#
41	73.3	43.8	65.8#

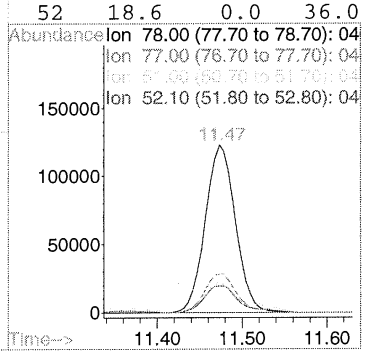


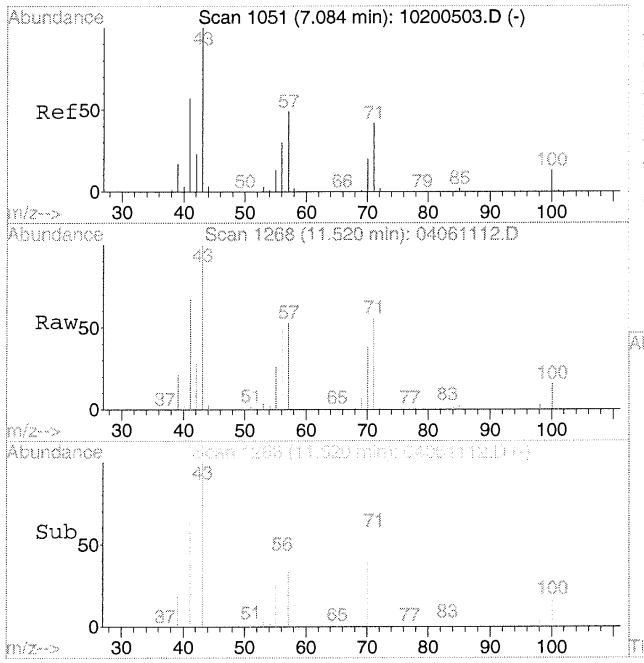


#31
Benzene
Concen: 2.60 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 78 Resp: 302073

Ion	Ratio	Lower	Upper
78	100		
77	25.0	3.7	43.7
51	22.6	0.0	36.1
52	18.6	0.0	36.0

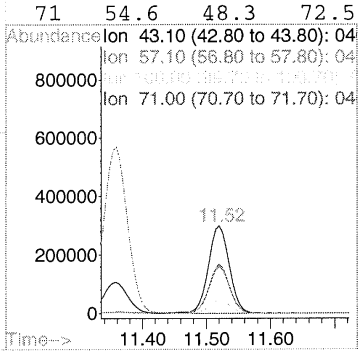


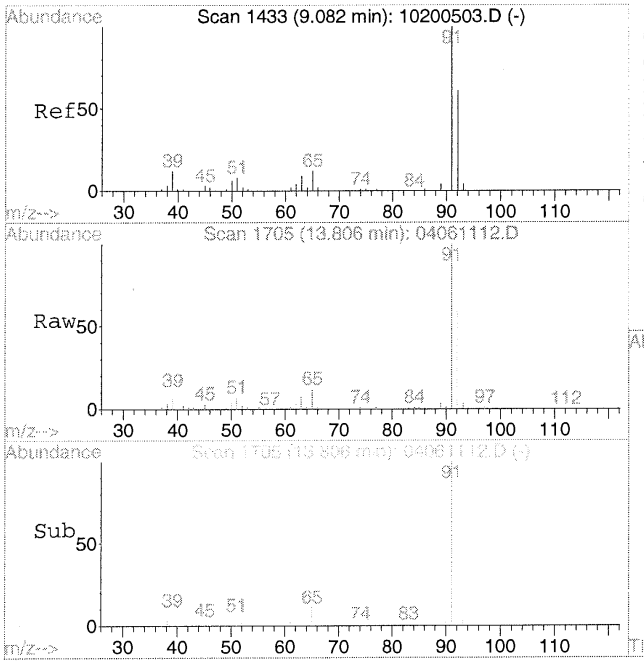


#34
Heptane
Concen: 8.51 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 43 Resp: 683628

Ion	Ratio	Lower	Upper
43	100		
57	54.9	42.2	63.4
100	15.2	17.3	25.9#
71	54.6	48.3	72.5

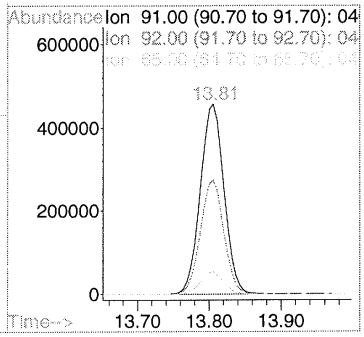


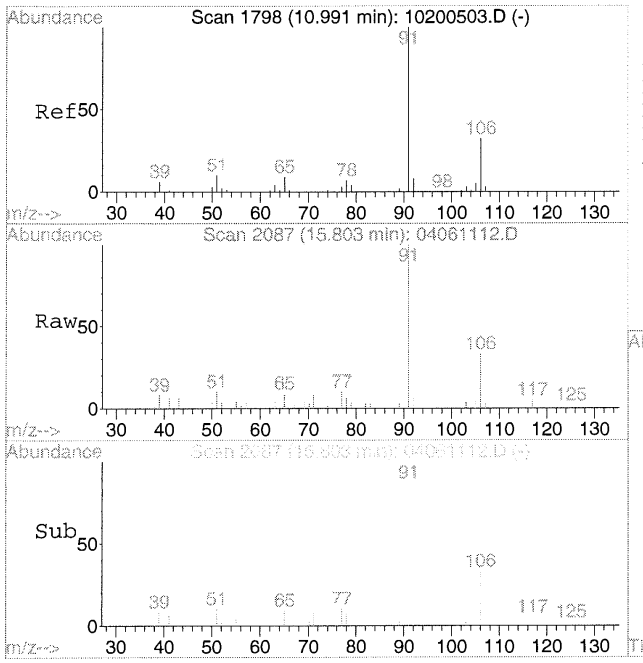


#41
Toluene
Concen: 8.37 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 91 Resp: 1048421

Ion	Ratio	Lower	Upper
91	100		
92	59.2	40.5	80.5
65	11.4	0.0	31.2

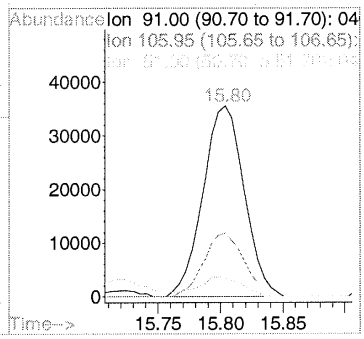


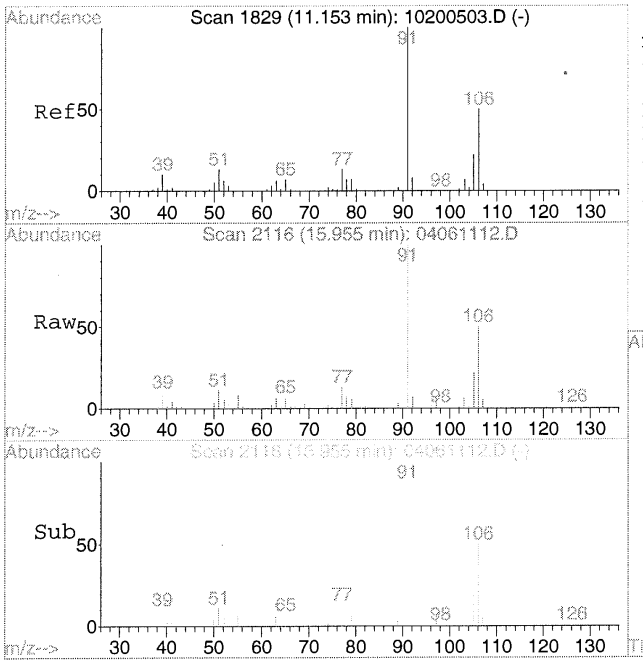


#50
Ethylbenzene
Concen: 0.59 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 91 Resp: 81309

Ion	Ratio	Lower	Upper
91	100		
106	32.3	14.9	54.9
51	10.8	0.0	33.1

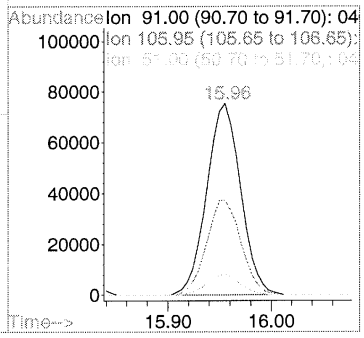




#51
m,p-Xylene
Concen: 1.62 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061112.D
Acq: 6 Apr 2011 7:15 pm

Tgt Ion: 91 Resp: 171795

Ion	Ratio	Lower	Upper
91	100		
106	50.3	35.6	75.6
51	10.5	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.354	63	89	127	rBV	536048	2959695	63.11%	5.157%
2	6.306	260	271	286	rBV3	17574	65602	1.40%	0.114%
3	7.189	428	440	454	rVB2	70734	229099	4.89%	0.399%
4	7.561	498	511	527	rVB2	121117	374698	7.99%	0.653%
5	8.371	655	666	674	rBV	26384	76370	1.63%	0.133%
6	8.769	726	742	761	rBV	295704	922705	19.67%	1.608%
7	8.926	761	772	786	rVB2	52014	143576	3.06%	0.250%
8	9.088	792	803	821	rVB2	163784	463373	9.88%	0.807%
9	9.391	849	861	875	rVB	576855	1441176	30.73%	2.511%
10	10.003	968	978	991	rVB	153345	403258	8.60%	0.703%
11	10.212	1006	1018	1036	rBV	449546	1194939	25.48%	2.082%
12	10.762	1113	1123	1147	rVV2	1031490	3510623	74.86%	6.117%
13	10.955	1147	1160	1167	rVV	451420	1187665	25.32%	2.069%
14	11.034	1167	1175	1193	rVB2	1211984	3059117	65.23%	5.330%
15	11.211	1198	1209	1218	rBV2	87306	231040	4.93%	0.403%
16	11.358	1218	1237	1250	rVV	1262860	3791900	80.85%	6.607%
17	11.473	1250	1259	1262	rVV3	441057	1087241	23.18%	1.895%
18	11.520	1262	1268	1285	rVB2	1507616	3622646	77.25%	6.312%
19	11.865	1323	1334	1352	rVV	1615974	3727878	79.49%	6.496%
20	12.200	1388	1398	1405	rBV	165475	389670	8.31%	0.679%
21	12.284	1405	1414	1424	rVV2	385231	1010588	21.55%	1.761%
22	12.393	1424	1435	1458	rVV	1861254	4689763	100.00%	8.172%
23	12.571	1458	1469	1474	rVV2	106041	294832	6.29%	0.514%
24	12.624	1474	1479	1489	rVB	116967	267472	5.70%	0.466%
25	12.796	1500	1512	1526	rBV2	603808	1531391	32.65%	2.668%
26	12.943	1526	1540	1545	rBV3	478466	1491715	31.81%	2.599%
27	13.147	1567	1579	1597	rBV	260634	826462	17.62%	1.440%
28	13.340	1607	1616	1629	rVB	258019	658671	14.04%	1.148%
29	13.570	1644	1660	1673	rVV	363907	1248937	26.63%	2.176%
30	13.670	1673	1679	1693	rVV	580485	1314446	28.03%	2.290%
31	13.806	1693	1705	1720	rVB	1154884	2836530	60.48%	4.943%
32	13.931	1720	1729	1740	rBV6	22145	67219	1.43%	0.117%
33	14.078	1747	1757	1769	rBV3	177702	501124	10.69%	0.873%
34	14.193	1770	1779	1789	rVB6	71075	213990	4.56%	0.373%
35	14.287	1789	1797	1805	rBV	80351	165396	3.53%	0.288%
36	14.459	1819	1830	1836	rVV2	46486	103994	2.22%	0.181%
37	14.522	1836	1842	1850	rVV6	25461	65449	1.40%	0.114%
38	14.684	1866	1873	1886	rBV3	34551	83051	1.77%	0.145%
39	14.831	1886	1901	1907	rVV	263242	719067	15.33%	1.253%
40	14.888	1907	1912	1918	rVV	149147	348243	7.43%	0.607%
41	14.946	1918	1923	1929	rVV2	78643	187969	4.01%	0.328%
42	15.019	1930	1937	1949	rVB2	131765	338279	7.21%	0.589%
43	15.197	1960	1971	1988	rBB2	131759	321791	6.86%	0.561%

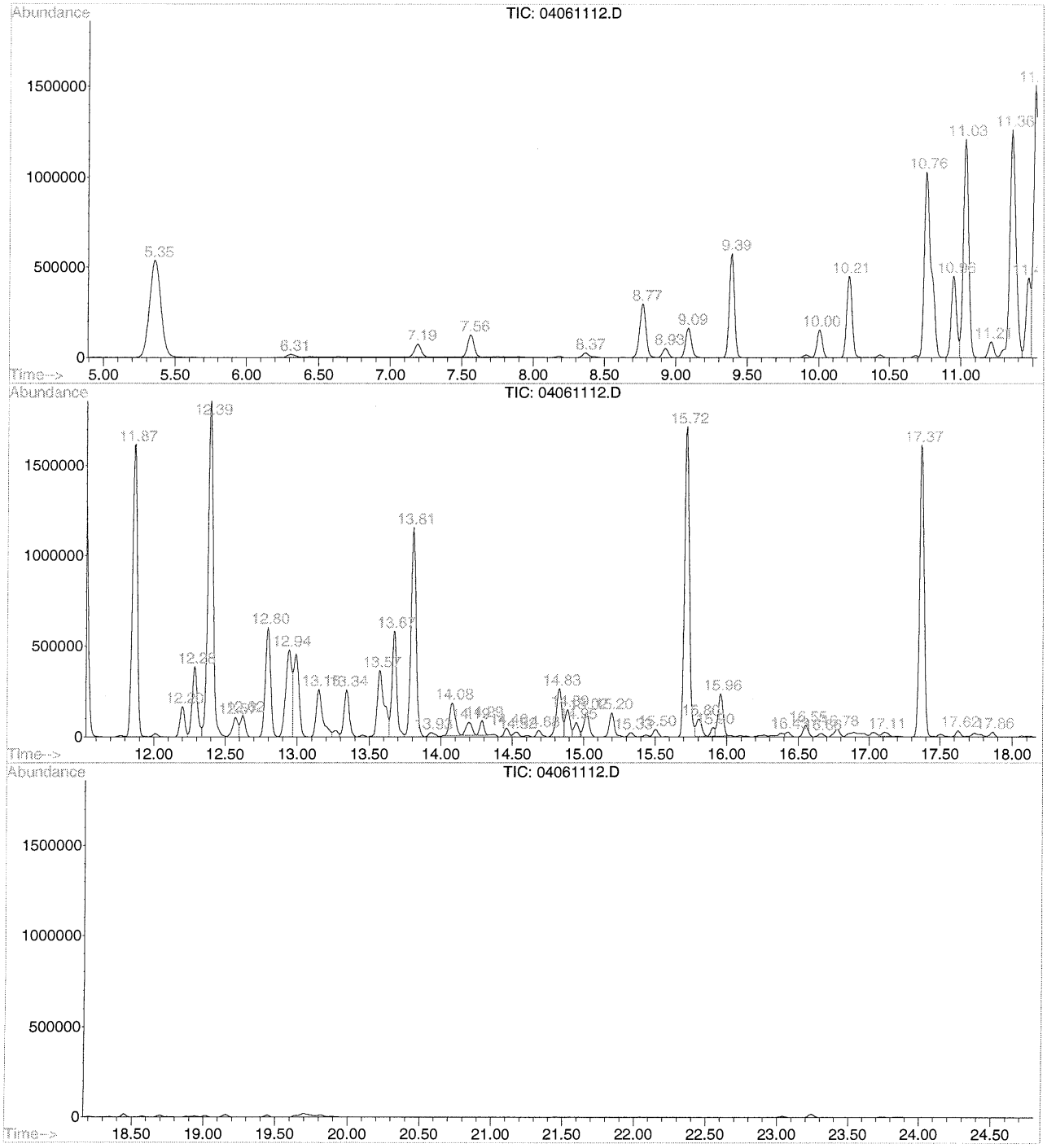
44	15.333	1988	1997	2006	rBV3	23889	55604	1.19%	0.097%
45	15.500	2022	2029	2039	rVB2	39882	96103	2.05%	0.167%
46	15.720	2059	2071	2082	rBV	1717242	3993190	85.15%	6.958%
47	15.803	2082	2087	2098	rVV2	95747	251044	5.35%	0.437%
48	15.903	2098	2106	2109	rVV2	48142	97075	2.07%	0.169%
49	15.955	2109	2116	2127	rVB	230765	558442	11.91%	0.973%
50	16.426	2202	2206	2216	rVB3	25652	56008	1.19%	0.098%
51	16.551	2220	2230	2240	rBB	63329	158350	3.38%	0.276%
52	16.656	2240	2250	2260	rBB4	18885	48941	1.04%	0.085%
53	16.776	2260	2273	2281	rBV6	40570	119496	2.55%	0.208%
54	17.111	2329	2337	2350	rVB3	21818	68106	1.45%	0.119%
55	17.367	2375	2386	2402	rBV	1613650	3594508	76.65%	6.263%
56	17.624	2426	2435	2444	rBV2	33468	67698	1.44%	0.118%
57	17.864	2473	2481	2489	rVB2	26470	56037	1.19%	0.098%

Sum of corrected areas: 57389252

04061112.D 031611V1.M Thu Apr 14 13:14:34 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061112.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 7:15 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-020B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 2
Quant File :031611V1.RES (RTE Integrator)



04061112.D 031611V1.M Thu Apr 14 13:14:35 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	10.54 ppbv	2959700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane $$ n-Pentane $$ Skelly Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	1.33 ppbv	374698	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Butane, 2-methyl-	72	C5H12	000078-78-4	39
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	9

****

Peak Number 3 Pentane, 2-methyl- $$ Isohexan Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	3.29 ppbv	922705	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	1.65 ppbv	463373	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	56
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	1.44 ppbv	403258	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50

****

Peak Number 6 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	4.25 ppbv	1194940	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	87
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	78
4	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
5	Aziridine, 1-(2-buten-2-yl)-	97	C6H11N	000000-00-0	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	4.23 ppbv	1187670	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	12.71 ppbv	3791900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	64
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	1.31 ppbv	389670	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	53

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.39 ppbv	1010590	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	15.73 ppbv	4689760	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	5.13 ppbv	1531390	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	5.00 ppbv	1491720	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64
4	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	64
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58

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Peak Number 14 Heptane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.77 ppbv	826462	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47

****

Peak Number 15 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.21 ppbv	658671	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.19 ppbv	1248940	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

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Peak Number 17 Octane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	4.41 ppbv	1314450	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Octane	114	C8H18	000111-65-9	64
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	64

****

Peak Number 18 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	1.57 ppbv	501124	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061112.D Vial: 2
Acq On : 6 Apr 2011 7:15 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	2.25 ppbv	719067	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	76

****

Peak Number 20 Cyclohexane, 1-ethyl-1,4-dimet Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	1.09 ppbv	348243	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-1,4-dimethyl-,	140	C10H20	062238-30-6	12
2	2,4-Dihydroxypyrine $$ 2,4-Dihydrox	111	C5H5NO2	000626-03-9	9
3	2,5-Dimethyl-3-hexene(c,t)	112	C8H16	000000-00-0	9
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	9
5	1,1'-Bicyclooctyl	222	C16H30	006708-17-4	9

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 7:15 pm
Data File: C:\HPCHEM\1\DATA\040611\04061112.D
Name: 1103389-020B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	10.5	ppbv	2959700	ISTD01	10.76	3510620	12.5
Pentane $$ n-Pentane	7.56	1.3	ppbv	374698	ISTD01	10.76	3510620	12.5
Pentane, 2-methyl- $	8.77	3.3	ppbv	922705	ISTD01	10.76	3510620	12.5
Pentane, 3-methyl-	9.09	1.6	ppbv	463373	ISTD01	10.76	3510620	12.5
Pentane, 2,4-dimethy	10.00	1.4	ppbv	403258	ISTD01	10.76	3510620	12.5
Cyclopentane, methyl	10.21	4.3	ppbv	1194940	ISTD01	10.76	3510620	12.5
Pentane, 2,3-dimethy	10.96	4.2	ppbv	1187670	ISTD01	10.76	3510620	12.5
Hexane, 2,2-dimethyl	11.36	12.7	ppbv	3791900	ISTD02	11.87	3727880	12.5
Hexane, 2,5-dimethyl	12.20	1.3	ppbv	389670	ISTD02	11.87	3727880	12.5
Hexane, 2,4-dimethyl	12.28	3.4	ppbv	1010590	ISTD02	11.87	3727880	12.5
Cyclohexane, methyl-	12.39	15.7	ppbv	4689760	ISTD02	11.87	3727880	12.5
Pentane, 2,3,4-trime	12.80	5.1	ppbv	1531390	ISTD02	11.87	3727880	12.5
Heptane, 2-methyl-	12.94	5.0	ppbv	1491720	ISTD02	11.87	3727880	12.5
Heptane, 3-methyl-	13.15	2.8	ppbv	826462	ISTD02	11.87	3727880	12.5
Hexane, 2,2,5-trimet	13.34	2.2	ppbv	658671	ISTD02	11.87	3727880	12.5
Cyclohexane, 1,3-dim	13.57	4.2	ppbv	1248940	ISTD02	11.87	3727880	12.5
Octane	13.67	4.4	ppbv	1314450	ISTD02	11.87	3727880	12.5
Cyclohexane, 1,2-dim	14.08	1.6	ppbv	501124	ISTD03	15.72	3993190	12.5
Cyclohexane, ethyl-	14.83	2.3	ppbv	719067	ISTD03	15.72	3993190	12.5
Cyclohexane, 1-ethyl	14.89	1.1	ppbv	348243	ISTD03	15.72	3993190	12.5

04061112.D 031611V1.M Thu Apr 14 13:14:35 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.77	130	465566	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.87	114	1632181	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1163433	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	727673	12.48	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.84%			
Target Compounds						Qvalue
14) Acetone *	8.37	43	393278	6.85	ppbv #	94
16) 2-Propanol	8.43	45	37179	0.90	ppbv #	1
20) n-Hexane *	9.39	57	901117	13.25	ppbv	97
24) 2-Butanone *	10.43	43	99119	1.67	ppbv #	88
29) Cyclohexane *	11.03	56	1269517	18.44	ppbv #	79
31) Benzene *	11.47	78	526896	4.58	ppbv	95
34) Heptane *	11.52	43	1080876	13.71	ppbv #	93
41) Toluene *	13.81	91	1374999	11.18	ppbv	99
51) m,p-Xylene	15.96	91	91467	0.87	ppbv	94

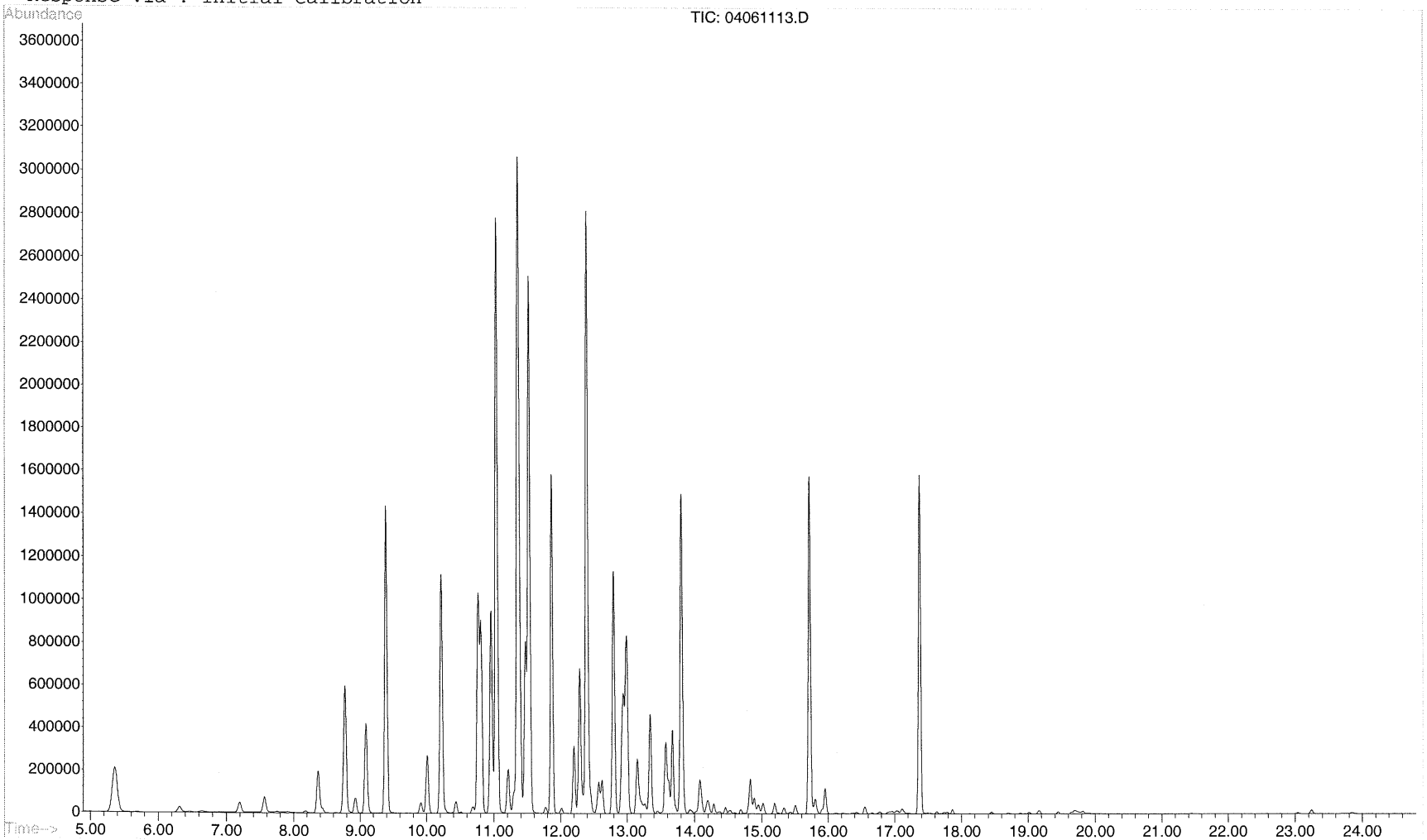
* reported only
CL 4/15/11

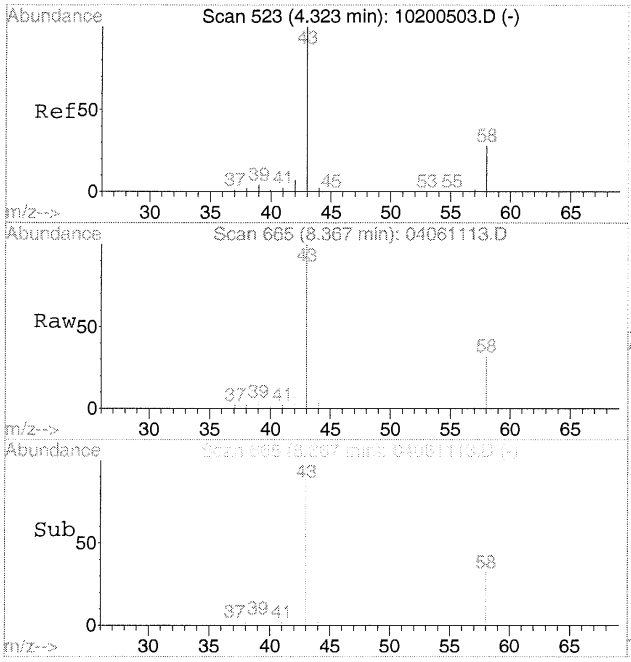
(#) = qualifier out of range (m) = manual integration
04061113.D 031611V1.M Thu Apr 14 13:14:39 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:52 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

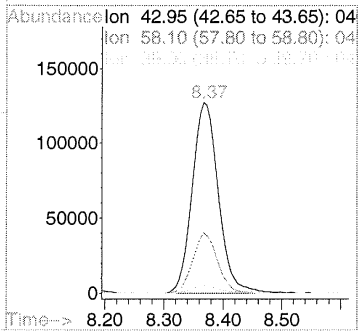


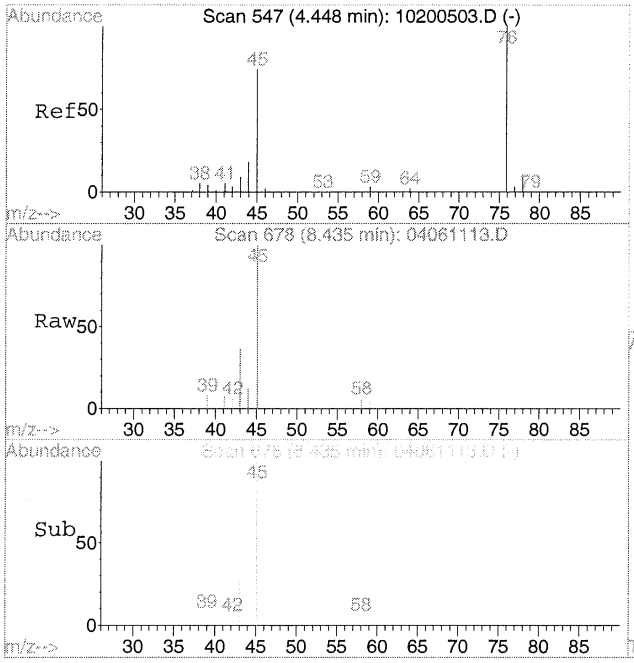


#14
Acetone
Concen: 6.85 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 43 Resp: 393278

Ion	Ratio	Lower	Upper
43	100		
58	29.8	22.0	33.0
39	4.2	6.5	9.7#

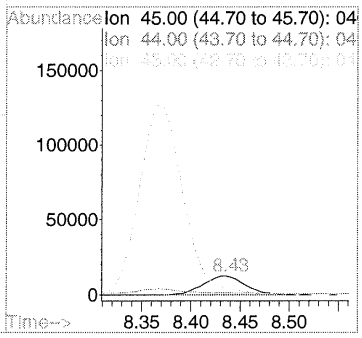


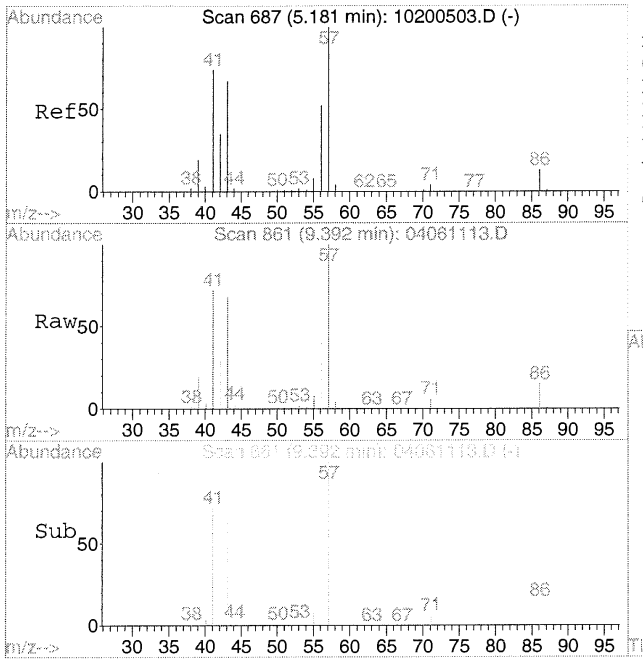


#16
2-Propanol
Concen: 0.90 ppbv
RT: 8.43 min Scan# 678
Delta R.T. 0.03 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 45 Resp: 37179

Ion	Ratio	Lower	Upper
45	100		
44	1.0	5.2	7.8#
43	0.0	101.1	151.7#

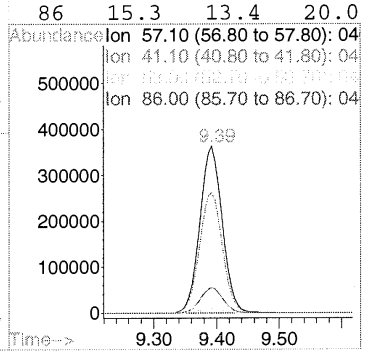


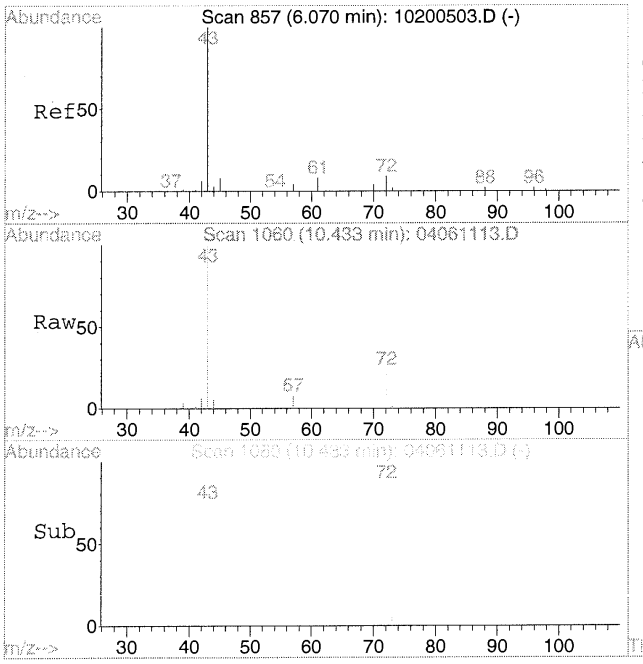


#20
n-Hexane
Concen: 13.25 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 57 Resp: 901117

Ion	Ratio	Lower	Upper
57	100		
41	74.3	57.2	85.8
53	2.4	1.8	2.8
86	15.3	13.4	20.0

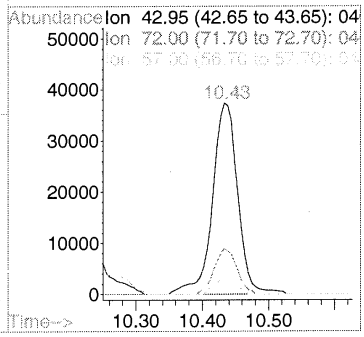


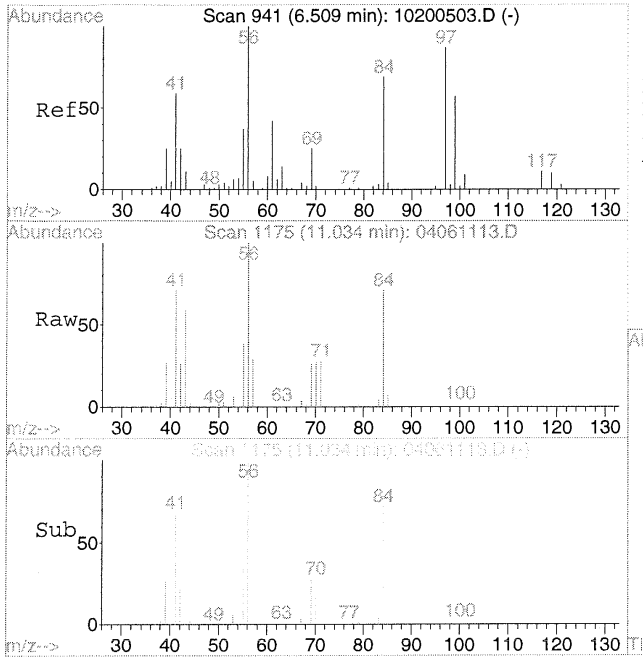


#24
2-Butanone
Concen: 1.67 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 43 Resp: 99119

Ion	Ratio	Lower	Upper
43	100		
72	21.4	23.4	35.2#
57	6.9	6.9	10.3

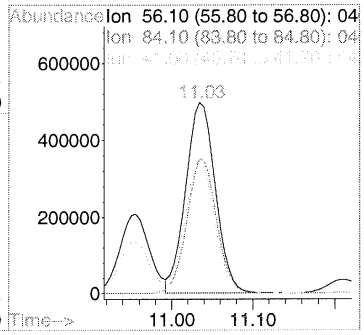


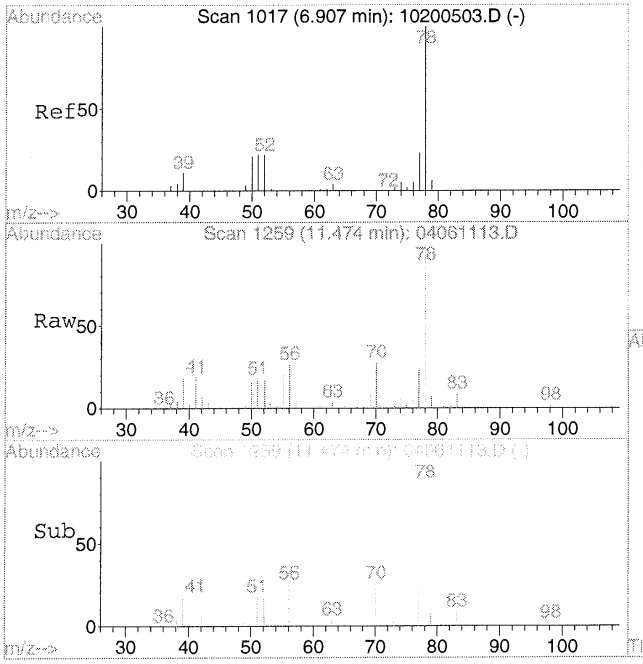


#29
Cyclohexane
Concen: 18.44 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 56 Resp: 1269517

Ion	Ratio	Lower	Upper
56	100		
84	71.0	72.4	108.6#
41	70.2	43.8	65.8#

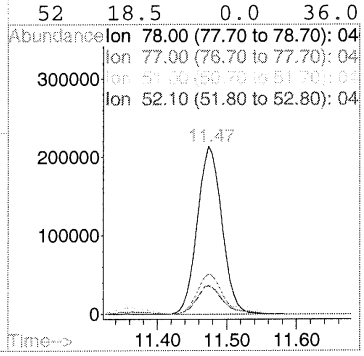


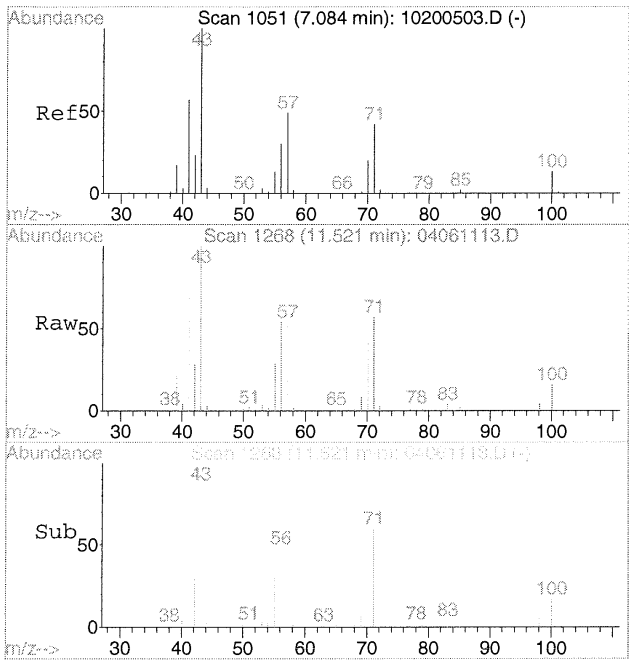


#31
Benzene
Concen: 4.58 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 78 Resp: 526896

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	18.5	0.0	36.1
52	18.5	0.0	36.0

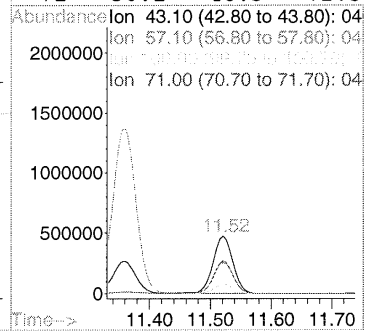


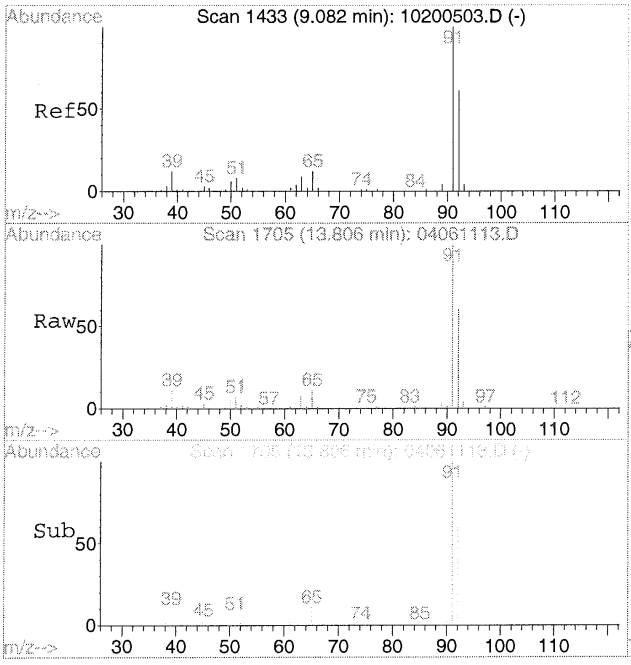


#34
Heptane
Concen: 13.71 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 43 Resp: 1080876

Ion	Ratio	Lower	Upper
43	100		
57	56.4	42.2	63.4
100	15.3	17.3	25.9#
71	56.1	48.3	72.5

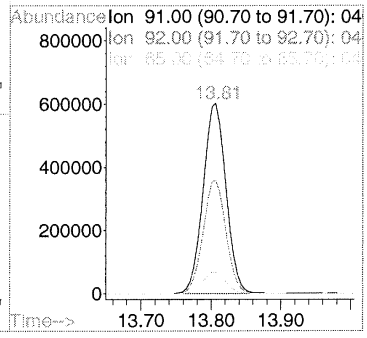


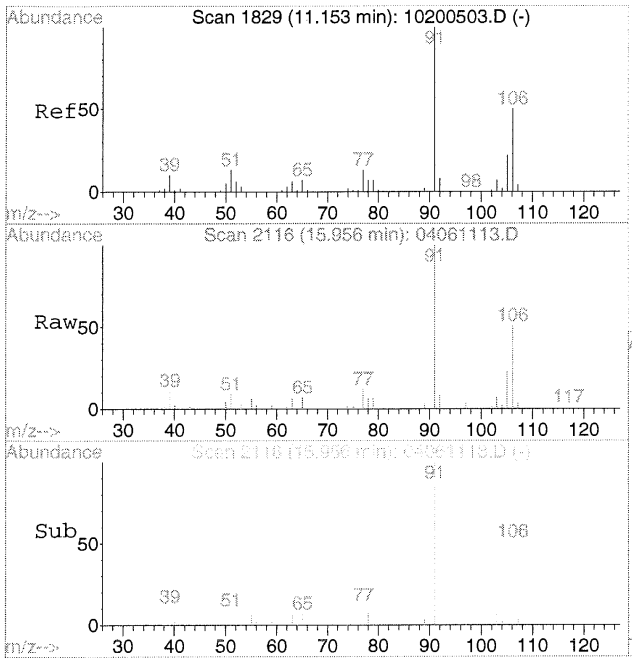


#41
Toluene
Concen: 11.18 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 91 Resp: 1374999

Ion	Ratio	Lower	Upper
91	100		
92	59.3	40.5	80.5
65	11.3	0.0	31.2

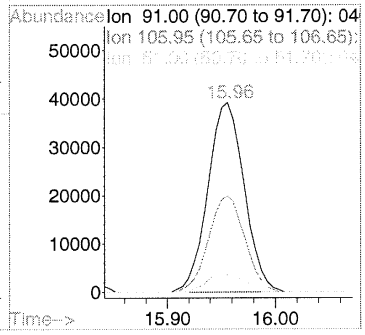




#51
m,p-Xylene
Concen: 0.87 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061113.D
Acq: 6 Apr 2011 7:58 pm

Tgt Ion: 91 Resp: 91467

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	10.0	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.354	65	89	119	rBV	210428	1144117	12.52%	1.425%
2	6.317	259	273	285	rBV3	25269	96297	1.05%	0.120%
3	7.195	428	441	453	rBV3	45329	147230	1.61%	0.183%
4	7.561	499	511	527	rVB	71191	220299	2.41%	0.274%
5	8.367	653	665	677	rBV	198031	611568	6.69%	0.761%
6	8.775	725	743	763	rBV	597331	1761212	19.28%	2.193%
7	8.927	763	772	784	rVB3	69299	200983	2.20%	0.250%
8	9.089	790	803	821	rBV	421908	1178754	12.90%	1.468%
9	9.392	847	861	878	rBV	1436226	3579749	39.19%	4.457%
10	9.910	950	960	968	rBV2	49278	131627	1.44%	0.164%
11	10.009	968	979	991	rVB	270289	711011	7.78%	0.885%
12	10.213	1006	1018	1042	rBV	1119184	2985051	32.68%	3.717%
13	10.433	1048	1060	1069	rBV	54072	129419	1.42%	0.161%
14	10.768	1113	1124	1128	rBV	1019658	2609453	28.57%	3.249%
15	10.956	1147	1160	1167	rBV	948684	2475861	27.10%	3.083%
16	11.034	1167	1175	1191	rVB	2780846	6989326	76.51%	8.702%
17	11.212	1197	1209	1217	rBV	203644	540863	5.92%	0.673%
18	11.359	1217	1237	1250	rVV	3063713	9134987	100.00%	11.374%
19	11.474	1250	1259	1262	rVV2	805461	1960896	21.47%	2.441%
20	11.521	1262	1268	1289	rVB2	2511725	6148785	67.31%	7.656%
21	11.861	1323	1333	1352	rVV	1584916	3670948	40.19%	4.571%
22	12.201	1387	1398	1405	rBV	317021	740022	8.10%	0.921%
23	12.284	1405	1414	1425	rVV	681836	1806616	19.78%	2.249%
24	12.394	1425	1435	1457	rVV	2817091	7159489	78.37%	8.914%
25	12.572	1457	1469	1474	rVV2	147342	411814	4.51%	0.513%
26	12.624	1474	1479	1490	rVB	156166	366490	4.01%	0.456%
27	12.797	1499	1512	1526	rBV	1135822	2868126	31.40%	3.571%
28	12.938	1526	1539	1543	rBV5	560821	1662989	18.20%	2.071%
29	12.990	1544	1549	1568	rVB	835141	2133812	23.36%	2.657%
30	13.147	1568	1579	1597	rBV2	254534	875055	9.58%	1.090%
31	13.341	1607	1616	1629	rVB	464531	1148792	12.58%	1.430%
32	13.576	1645	1661	1667	rBV2	331215	927037	10.15%	1.154%
33	13.670	1673	1679	1693	rVB	379662	865630	9.48%	1.078%
34	13.806	1693	1705	1722	rVB	1492389	3595123	39.36%	4.476%
35	14.078	1748	1757	1770	rVB2	150059	433837	4.75%	0.540%
36	14.199	1770	1780	1790	rVB6	56219	168048	1.84%	0.209%
37	14.826	1887	1900	1907	rVV	160231	429557	4.70%	0.535%
38	14.889	1907	1912	1918	rVV	73565	177237	1.94%	0.221%
39	14.946	1919	1923	1930	rVV5	41239	100683	1.10%	0.125%
40	15.020	1930	1937	1947	rVB4	49433	130783	1.43%	0.163%
41	15.192	1959	1970	1980	rBV5	49662	120160	1.32%	0.150%
42	15.501	2022	2029	2039	rVB3	38985	97878	1.07%	0.122%
43	15.720	2059	2071	2082	rBV	1574991	3631155	39.75%	4.521%

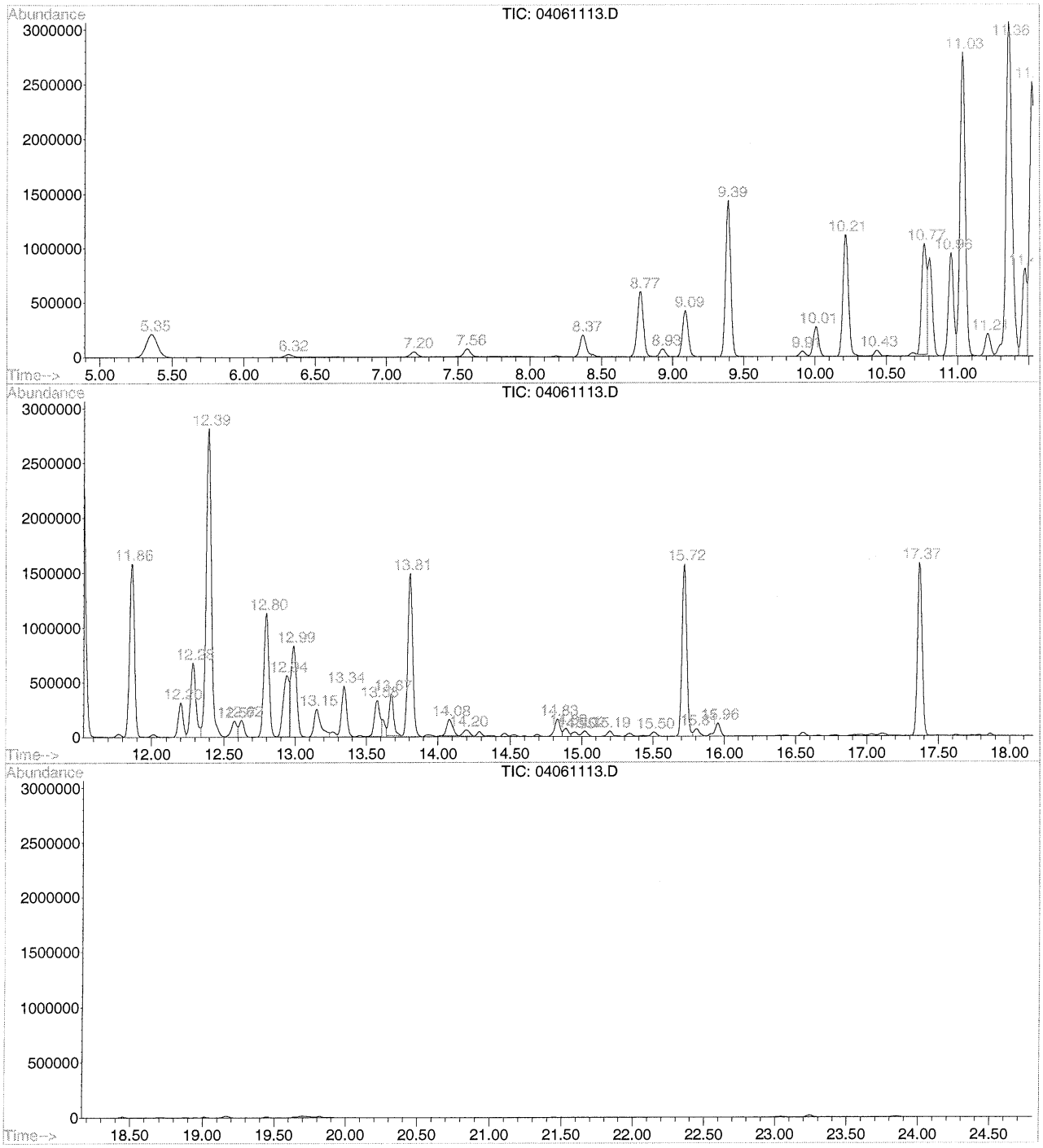
44	15.809	2082	2088	2098	rVV2	67380	177250	1.94%	0.221%
45	15.956	2098	2116	2127	rVB2	119512	331075	3.62%	0.412%
46	17.368	2376	2386	2401	rBV	1582785	3528662	38.63%	4.393%

Sum of corrected areas: 80315756

04061113.D 031611V1.M Thu Apr 14 13:14:44 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061113.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 7:58 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-021B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 3
Quant File :031611V1.RES (RTE Integrator)



04061113.D 031611V1.M Thu Apr 14 13:14:44 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	5.48 ppbv	1144120	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	8.44 ppbv	1761210	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	47

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	5.65 ppbv	1178750	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	64
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	3.41 ppbv	711011	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Hexane	86	C6H14	000110-54-3	59

****

Peak Number 5 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	14.30 ppbv	2985050	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
4	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	11.86 ppbv	2475860	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.59 ppbv	540863	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	72
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
3	1-Hexyn-3-ol	98	C6H10O	000105-31-7	38
4	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	35
5	(Z)-(CH3)2CHCH2CH=CHCH3 $$ 2-Hexene	98	C7H14	013151-17-2	32

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	31.11 ppbv	9134990	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	72

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	2.52 ppbv	740022	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	93
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	43

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.15 ppbv	1806620	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	70
3	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	24.38 ppbv	7159490	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	9.77 ppbv	2868130	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
4	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	58
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,3-dimethyl- $$ 2,3-D Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	5.66 ppbv	1662990	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	64
2	Pyrrolidine	71	C4H9N	000123-75-1	53
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	53
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	52
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	47

****

Peak Number 14 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	7.27 ppbv	2133810	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	53
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
4	1-Butanol, 2,2-dimethyl-	102	C6H14O	001185-33-7	40
5	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	39

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.98 ppbv	875055	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	43

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	3.91 ppbv	1148790	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	78

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.16 ppbv	927037	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	90

****

Peak Number 18 Heptane, 2,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	2.95 ppbv	865630	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	80
5	Octane	114	C8H18	000111-65-9	64

Data File : C:\HPCHEM\1\DATA\040611\04061113.D Vial: 3
Acq On : 6 Apr 2011 7:58 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	1.49 ppbv	433837	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.48 ppbv	429557	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 7:58 pm
Data File: C:\HPCHEM\1\DATA\040611\04061113.D
Name: 1103389-021B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	5.5	ppbv	1144120	ISTD01	10.77	2609450	12.5
Pentane, 2-methyl-	8.77	8.4	ppbv	1761210	ISTD01	10.77	2609450	12.5
Pentane, 3-methyl-	9.09	5.6	ppbv	1178750	ISTD01	10.77	2609450	12.5
Pentane, 2,4-dimethy	10.01	3.4	ppbv	711011	ISTD01	10.77	2609450	12.5
Cyclopentane, methyl	10.21	14.3	ppbv	2985050	ISTD01	10.77	2609450	12.5
Pentane, 2,3-dimethy	10.96	11.9	ppbv	2475860	ISTD01	10.77	2609450	12.5
Cyclopentane, 1,1-di	11.21	2.6	ppbv	540863	ISTD01	10.77	2609450	12.5
Hexane, 2,2-dimethyl	11.36	31.1	ppbv	9134990	ISTD02	11.87	3670950	12.5
Hexane, 2,5-dimethyl	12.20	2.5	ppbv	740022	ISTD02	11.87	3670950	12.5
Hexane, 2,4-dimethyl	12.28	6.2	ppbv	1806620	ISTD02	11.87	3670950	12.5
Cyclohexane, methyl-	12.39	24.4	ppbv	7159490	ISTD02	11.87	3670950	12.5
Pentane, 2,3,4-trime	12.80	9.8	ppbv	2868130	ISTD02	11.87	3670950	12.5
Hexane, 2,3-dimethyl	12.94	5.7	ppbv	1662990	ISTD02	11.87	3670950	12.5
Decane, 3,3,4-trimet	12.99	7.3	ppbv	2133810	ISTD02	11.87	3670950	12.5
Heptane, 3-methyl-	13.15	3.0	ppbv	875055	ISTD02	11.87	3670950	12.5
Hexane, 2,2,4-trimet	13.34	3.9	ppbv	1148790	ISTD02	11.87	3670950	12.5
Cyclohexane, 1,3-dim	13.58	3.2	ppbv	927037	ISTD02	11.87	3670950	12.5
Heptane, 2,4-dimethy	13.67	2.9	ppbv	865630	ISTD02	11.87	3670950	12.5
Cyclohexane, 1,2-dim	14.08	1.5	ppbv	433837	ISTD03	15.72	3631160	12.5
Cyclohexane, ethyl-	14.83	1.5	ppbv	429557	ISTD03	15.72	3631160	12.5

04061113.D 031611V1.M Thu Apr 14 13:14:45 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061115.D Vial: 6
Acq On : 6 Apr 2011 9:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:53 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	471276	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1668043	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1215784	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	757615	12.43	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.44%				
Target Compounds							Qvalue
2) Propylene	5.68	41	38248	1.08	ppbv		92
11) Ethanol	7.75	45	9930	1.27	ppbv	#	79
14) Acetone ¥	8.37	43	1067283	18.38	ppbv	#	93
16) 2-Propanol	8.42	45	95480	2.28	ppbv	#	1
20) n-Hexane ¥	9.39	57	3181460	46.23	ppbv		99
24) 2-Butanone	10.43	43	161490	2.69	ppbv	#	90
29) Cyclohexane ¥	11.04	56	2457770	35.27	ppbv	#	81
31) Benzene	11.47	78	1314859	11.29	ppbv		94
34) Heptane ¥	11.52	43	1932536	23.99	ppbv	#	93
41) Toluene ¥	13.81	91	2286547	18.19	ppbv		100
50) Ethylbenzene	15.80	91	131989	0.93	ppbv		93
51) m,p-Xylene	15.96	91	213330	1.95	ppbv		93
52) o-Xylene	16.55	91	60526	0.57	ppbv	#	88

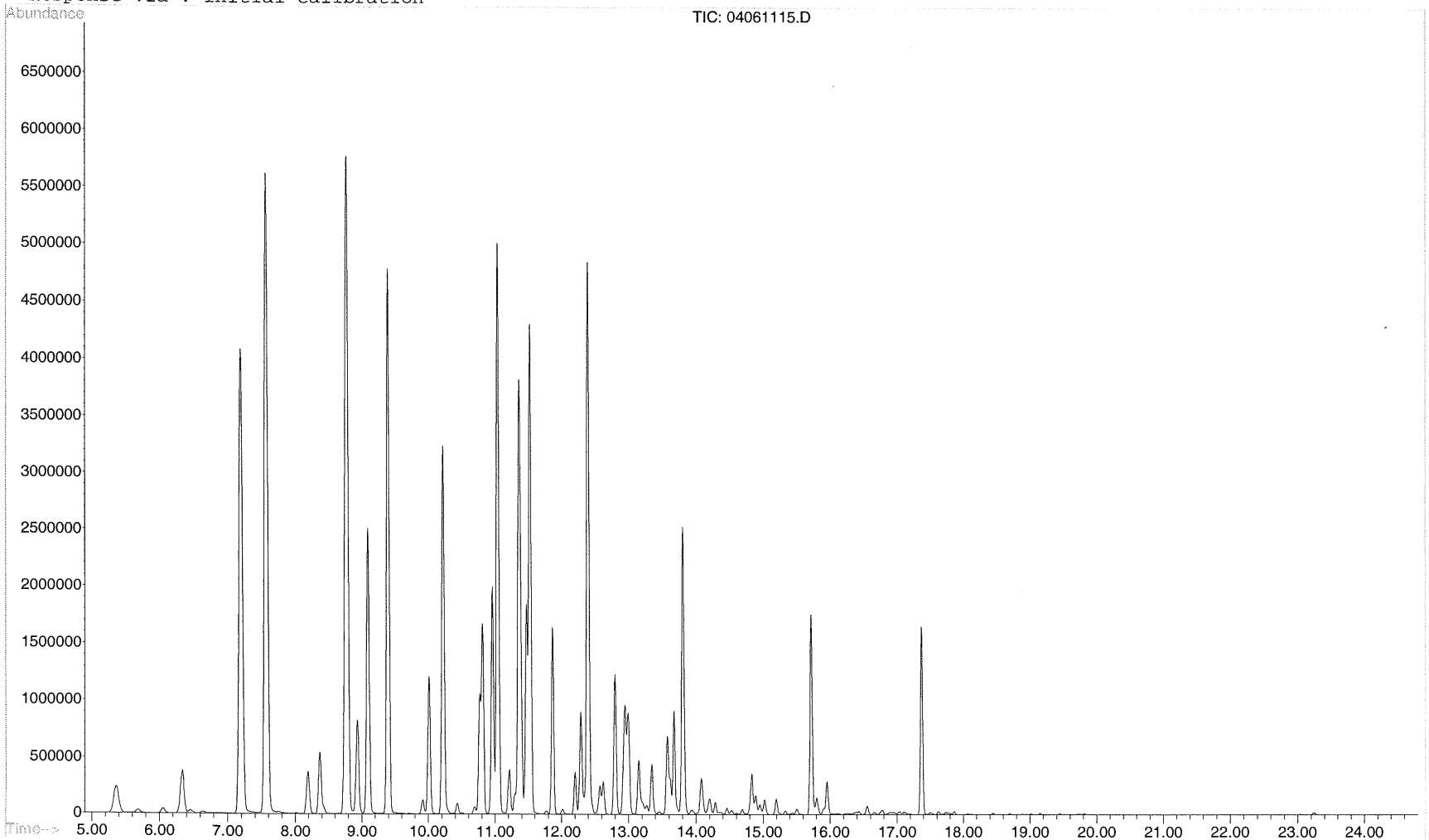
¥ = reported only
CR 4/15/11

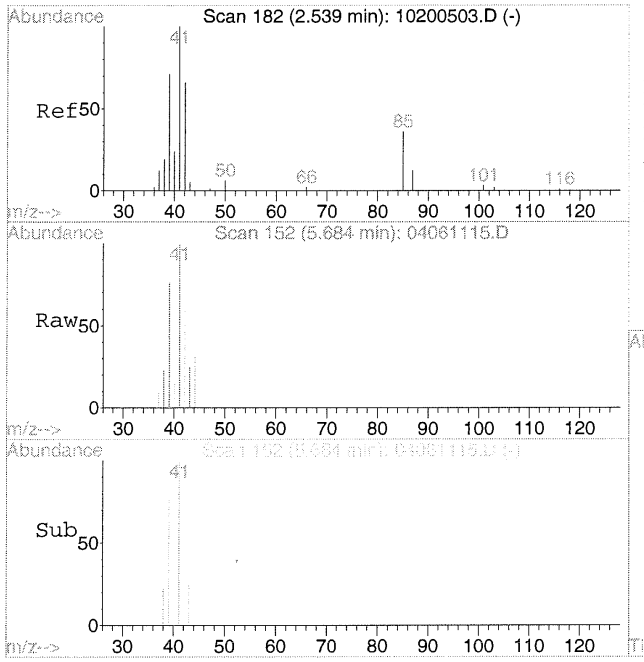
(#) = qualifier out of range (m) = manual integration
04061115.D 031611V1.M Thu Apr 14 13:14:56 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061115.D Vial: 6
Acq On : 6 Apr 2011 9:23 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:53 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

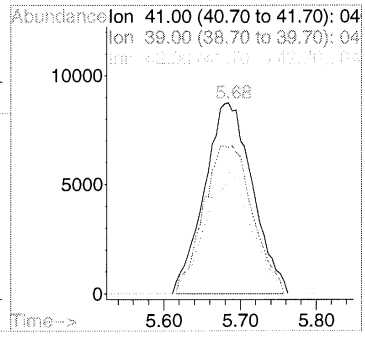


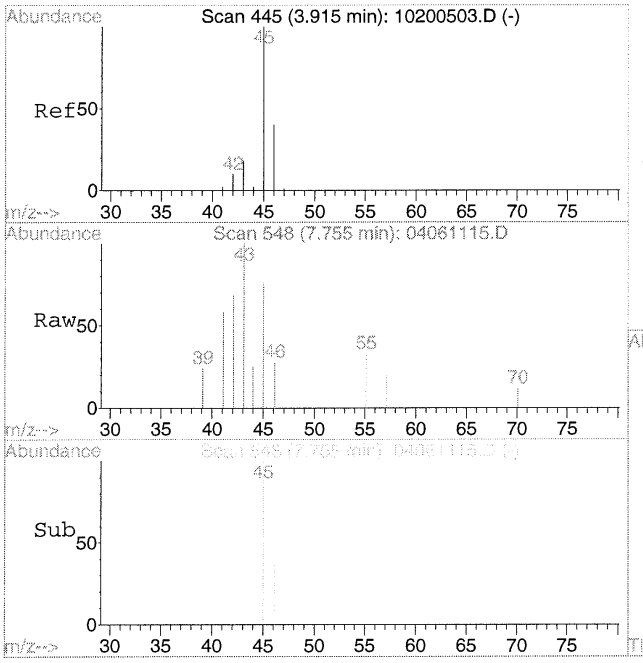


#2
Propylene
Concen: 1.08 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 41 Resp: 38248

Ion	Ratio	Lower	Upper
41	100		
39	78.8	57.6	86.4
42	60.7	54.0	81.0

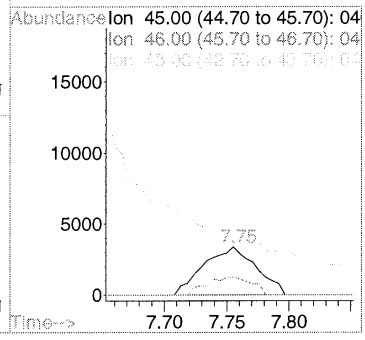


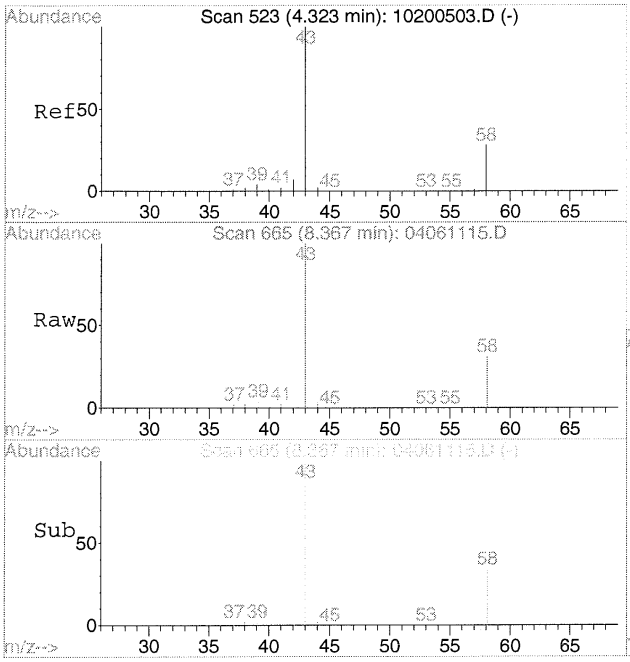


#11
Ethanol
Concen: 1.27 ppbv
RT: 7.75 min Scan# 548
Delta R.T. 0.02 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 45 Resp: 9930

Ion	Ratio	Lower	Upper
45	100		
46	32.0	30.2	45.4
43	0.0	15.8	23.6#

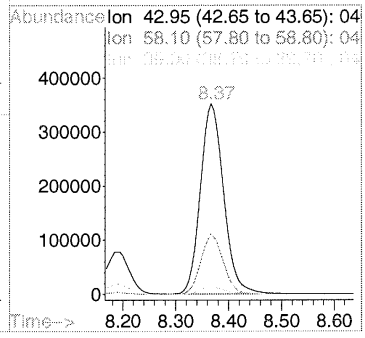


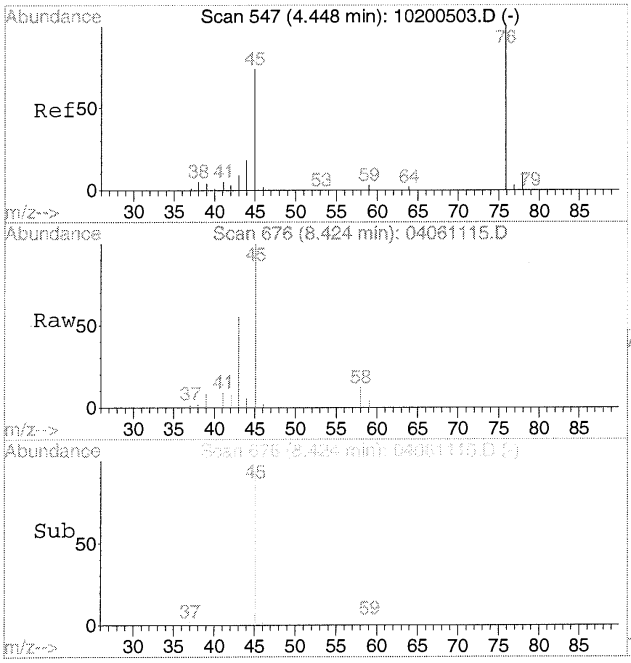


#14
Acetone
Concen: 18.38 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 43 Resp: 1067283

Ion	Ratio	Lower	Upper
43	100		
58	30.4	22.0	33.0
39	4.6	6.5	9.7#

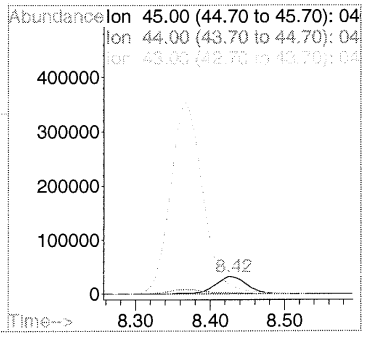


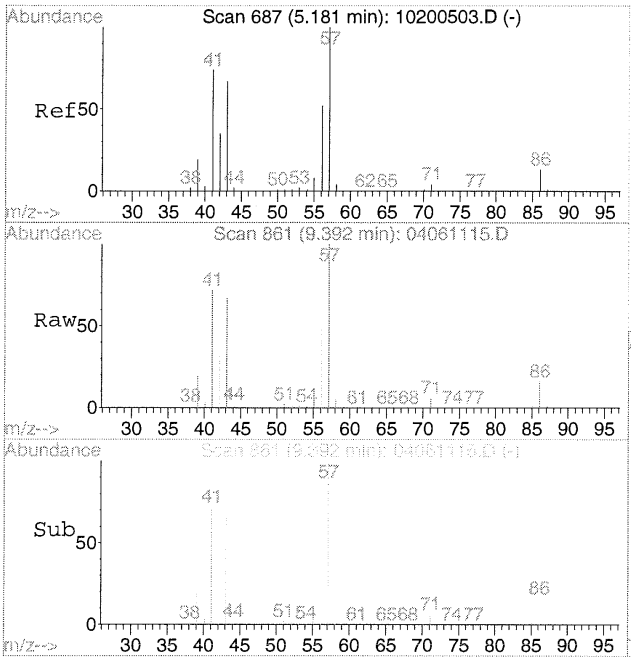


#16
2-Propanol
Concen: 2.28 ppbv
RT: 8.42 min Scan# 676
Delta R.T. 0.02 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 45 Resp: 95480

Ion	Ratio	Lower	Upper
45	100		
44	0.0	5.2	7.8#
43	0.0	101.1	151.7#

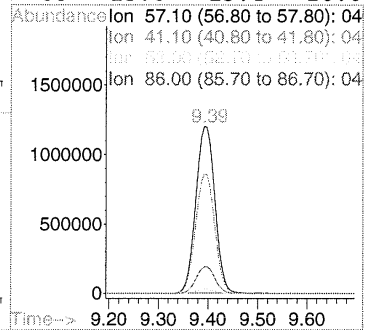


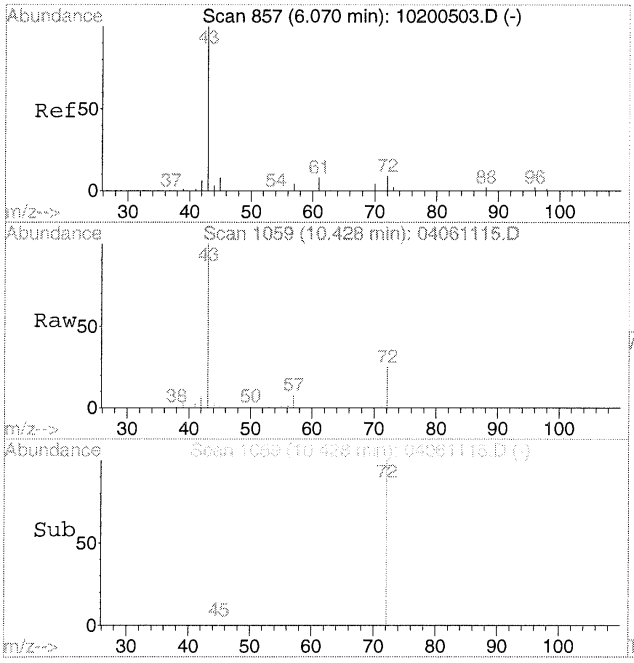


#20
n-Hexane
Concen: 46.23 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 57 Resp: 3181460

Ion	Ratio	Lower	Upper
57	100		
41	72.2	57.2	85.8
53	2.4	1.8	2.8
86	15.8	13.4	20.0

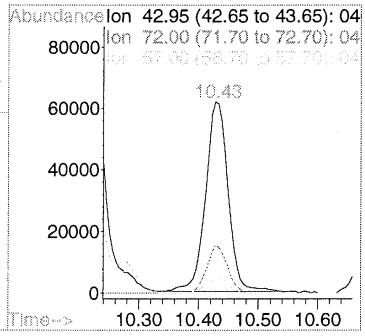


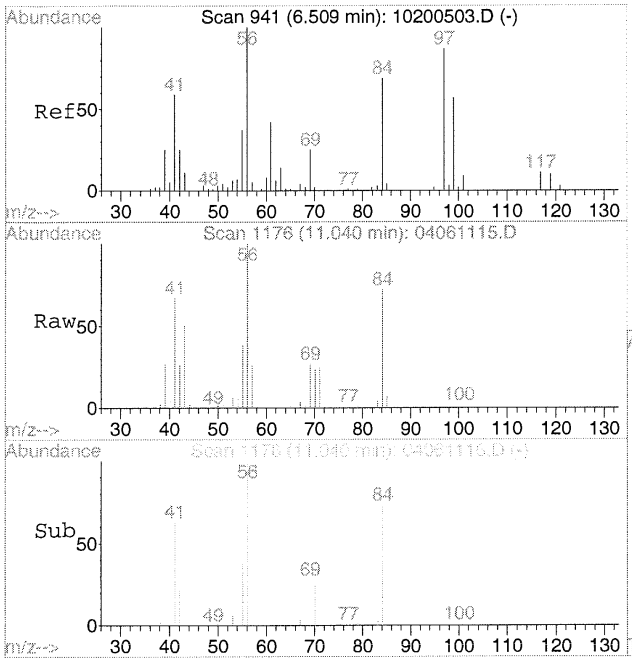


#24
2-Butanone
Concen: 2.69 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 43 Resp: 161490

Ion	Ratio	Lower	Upper
43	100		
72	23.0	23.4	35.2#
57	7.9	6.9	10.3

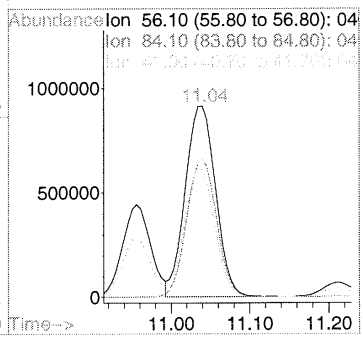


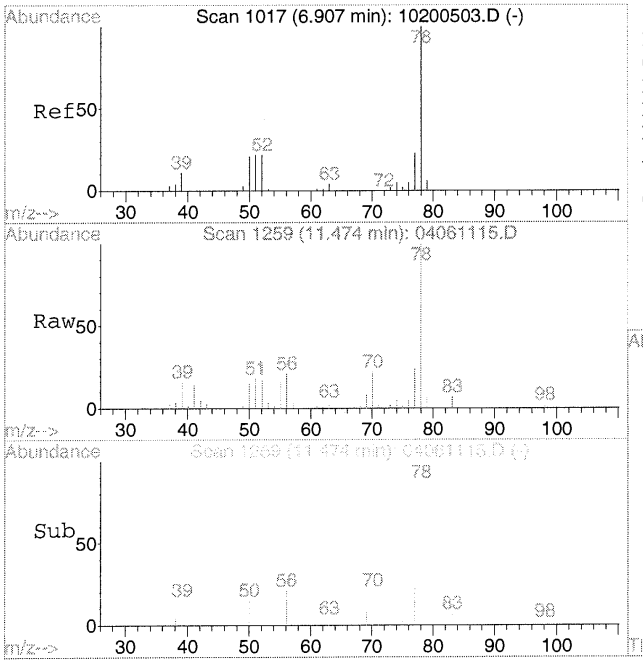


#29
Cyclohexane
Concen: 35.27 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 56 Resp: 2457770

Ion	Ratio	Lower	Upper
56	100		
84	72.0	72.4	108.6#
41	67.7	43.8	65.8#

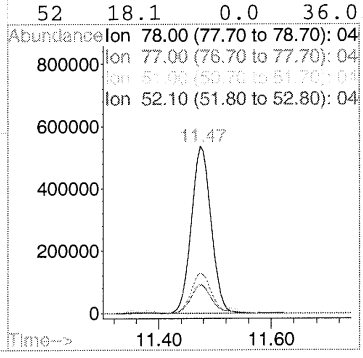


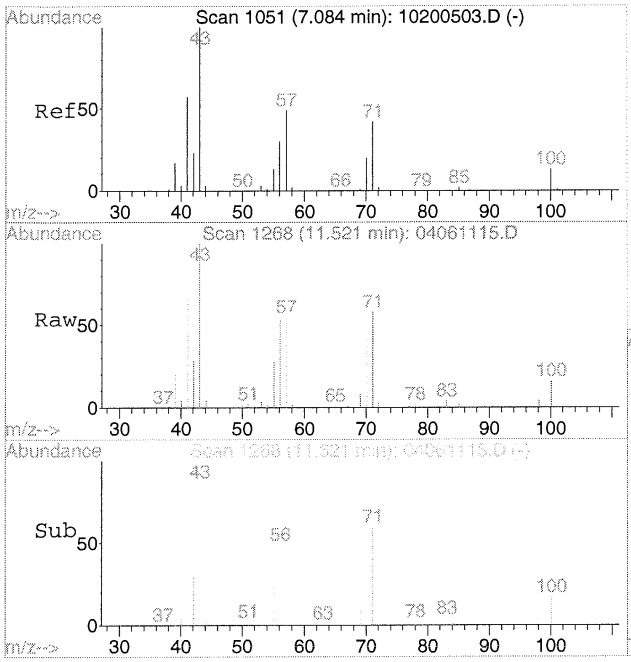


#31
Benzene
Concen: 11.29 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 78 Resp: 1314859

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	20.8	0.0	36.1
52	18.1	0.0	36.0

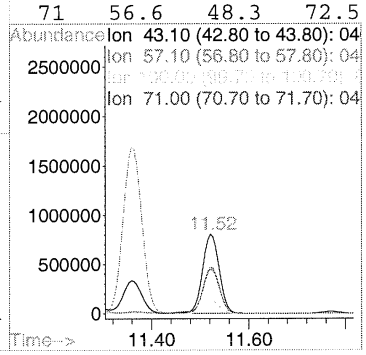


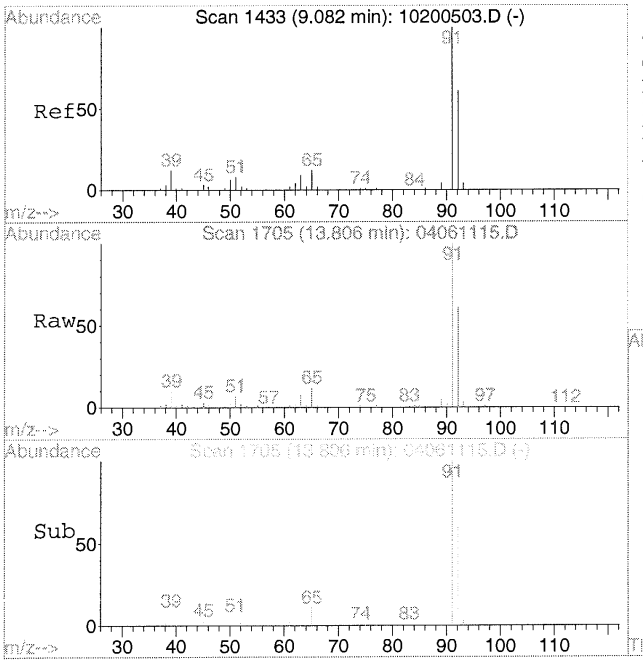


#34
Heptane
Concen: 23.99 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 43 Resp: 1932536

Ion	Ratio	Lower	Upper
43	100		
57	57.0	42.2	63.4
100	15.6	17.3	25.9#
71	56.6	48.3	72.5

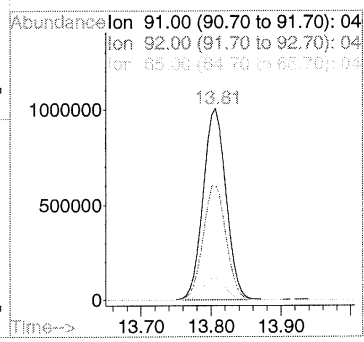


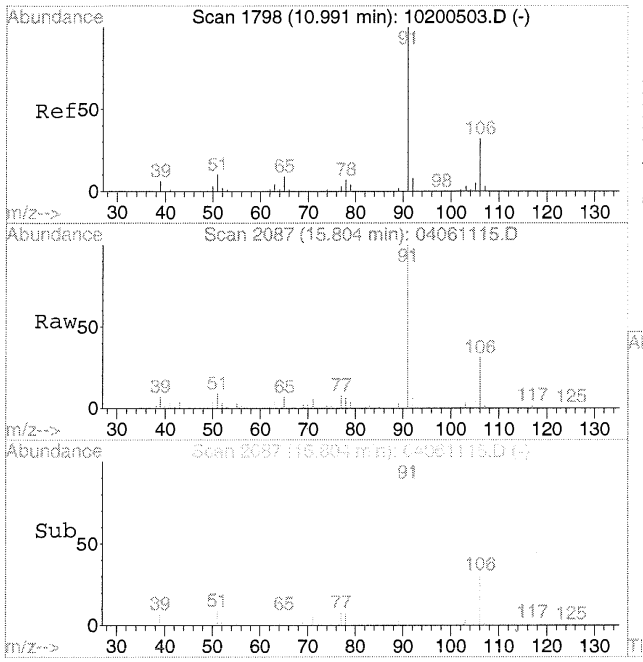


#41
Toluene
Concen: 18.19 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 91 Resp: 2286547

Ion	Ratio	Lower	Upper
91	100		
92	60.4	40.5	80.5
65	11.7	0.0	31.2

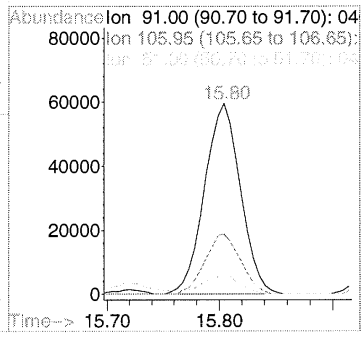


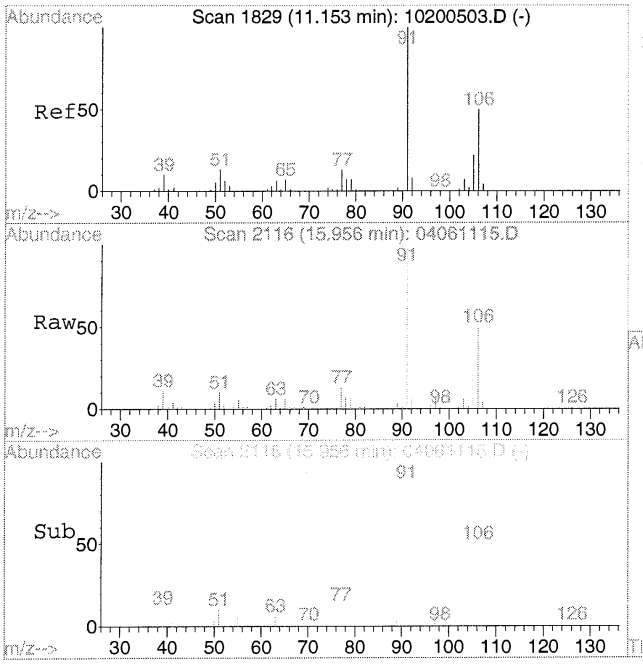


#50
Ethylbenzene
Concen: 0.93 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 91 Resp: 131989

Ion	Ratio	Lower	Upper
91	100		
106	31.2	14.9	54.9
51	10.3	0.0	33.1

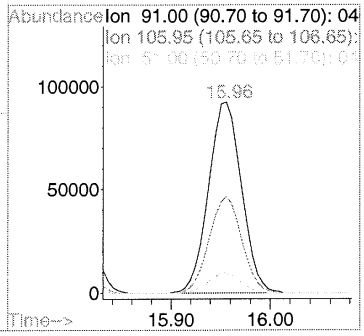


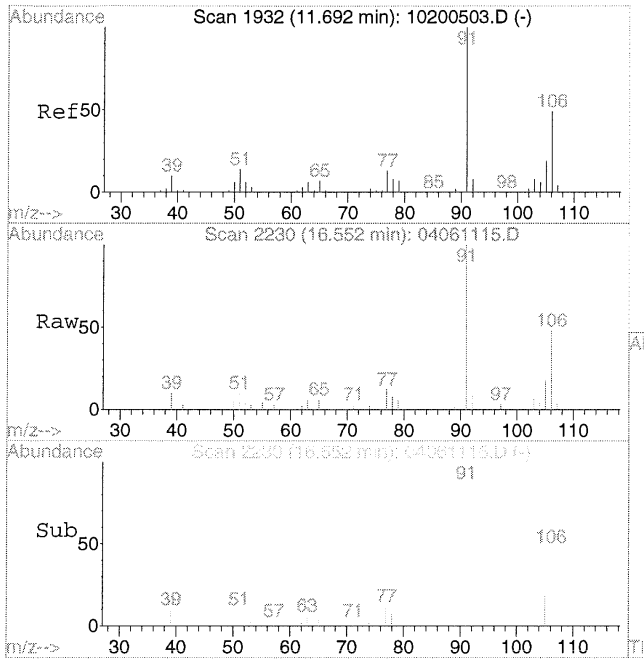


#51
m,p-Xylene
Concen: 1.95 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 91 Resp: 213330

Ion	Ratio	Lower	Upper
91	100		
106	49.7	35.6	75.6
51	10.4	0.0	29.6

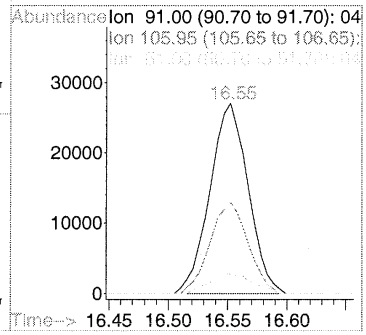




#52
o-Xylene
Concen: 0.57 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04061115.D
Acq: 6 Apr 2011 9:23 pm

Tgt Ion: 91 Resp: 60526

Ion	Ratio	Lower	Upper
91	100		
106	47.5	41.0	61.6
51	12.1	19.7	29.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061116.D Vial: 7
Acq On : 6 Apr 2011 10:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:53 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	474515	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1704454	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1218805	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	754571	12.35	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.80%				
Target Compounds							Qvalue
2) Propylene	5.68	41	22603	0.64	ppbv	#	70
14) Acetone	8.37	43	656926	11.23	ppbv	#	95
16) 2-Propanol	8.43	45	63281	1.50	ppbv	#	1
17) Methylene chloride	8.93	49	25669	0.54	ppbv		88
20) n-Hexane *	9.39	57	1991236	28.74	ppbv		99
24) 2-Butanone	10.43	43	105478	1.75	ppbv	#	88
29) Cyclohexane *	11.03	56	1481909	21.12	ppbv	#	81
31) Benzene	11.47	78	775030	6.61	ppbv		94
34) Heptane	11.52	43	1185585	14.40	ppbv	#	94
41) Toluene	13.81	91	1309482	10.19	ppbv		98
50) Ethylbenzene	15.80	91	88234	0.62	ppbv		96
51) m,p-Xylene	15.96	91	148976	1.36	ppbv		94

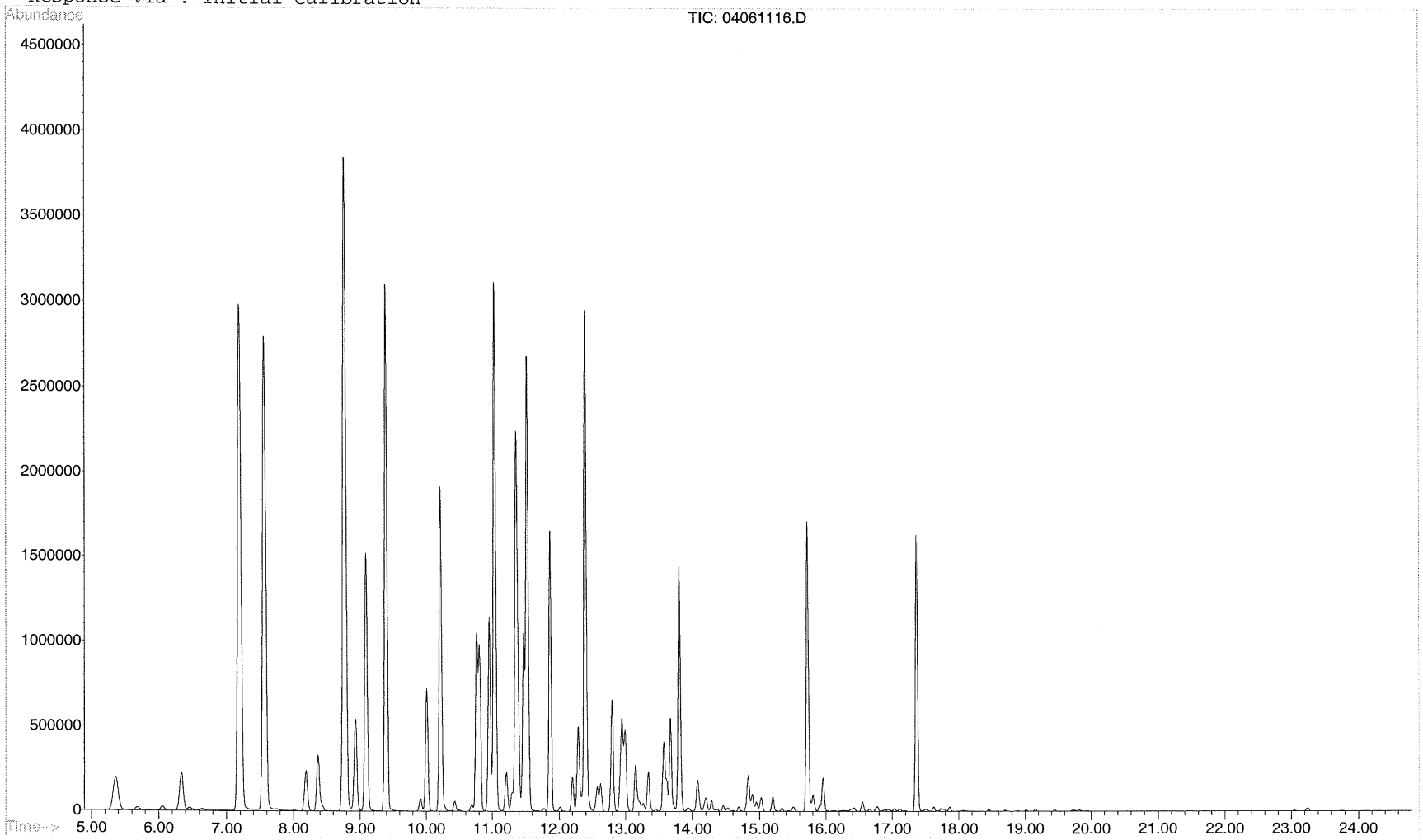
* - reported only on 4/15/11

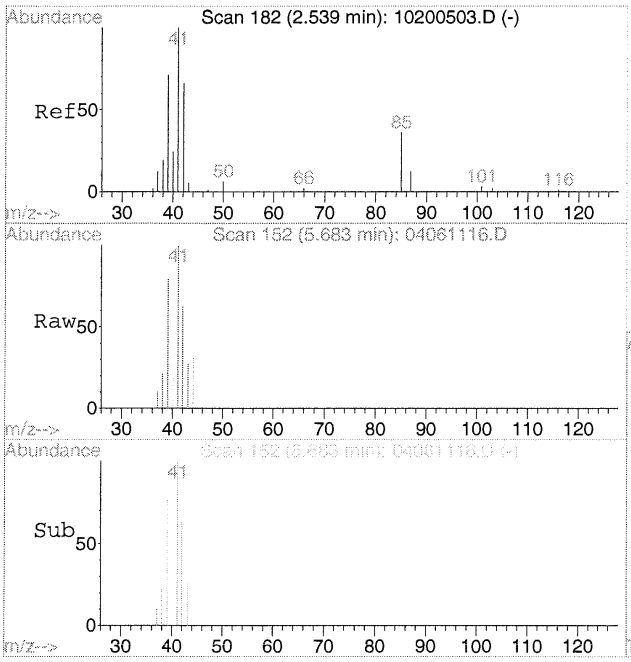
(#) = qualifier out of range (m) = manual integration
04061116.D 031611V1.M Thu Apr 14 13:15:09 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061116.D Vial: 7
Acq On : 6 Apr 2011 10:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:53 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

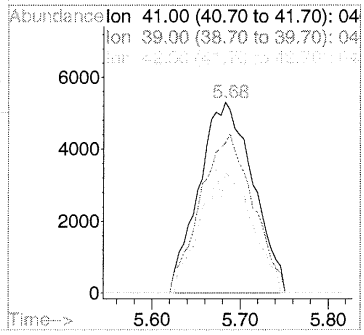


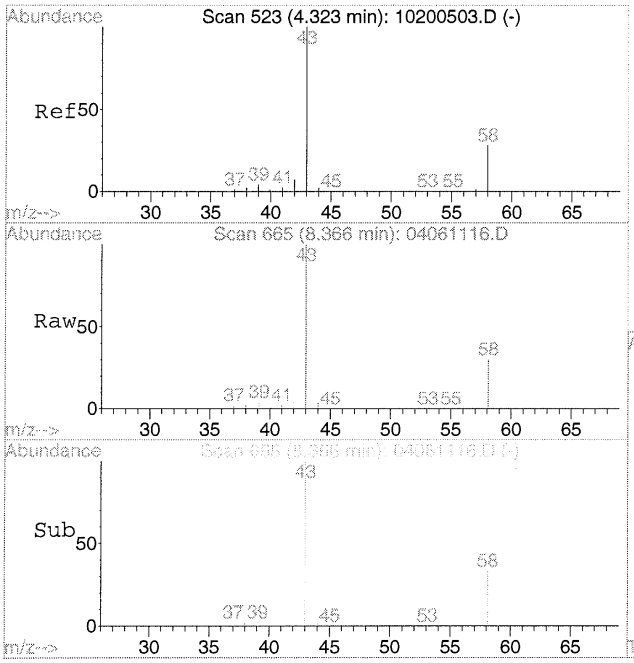


#2
Propylene
Concen: 0.64 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 41 Resp: 22603

Ion	Ratio	Lower	Upper
41	100		
39	80.7	57.6	86.4
42	26.7	54.0	81.0#

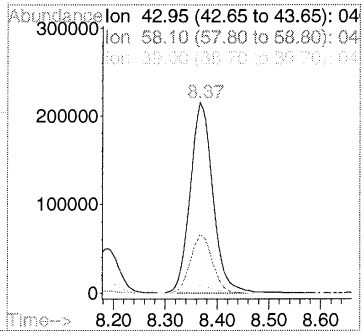


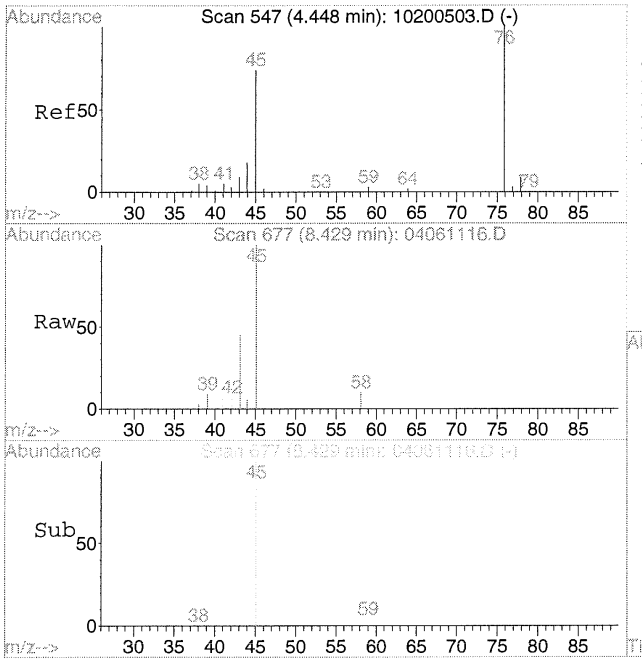


#14
Acetone
Concen: 11.23 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 43 Resp: 656926

Ion	Ratio	Lower	Upper
43	100		
58	29.6	22.0	33.0
39	4.5	6.5	9.7#

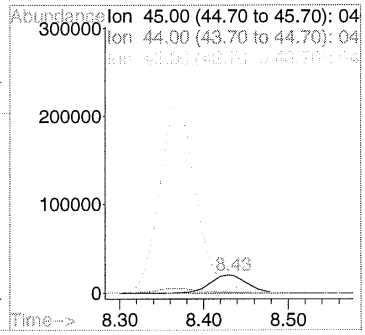


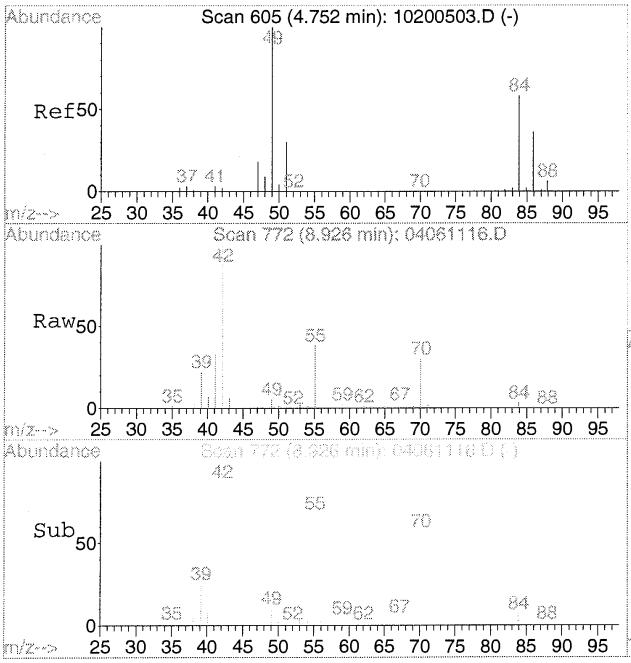


#16
2-Propanol
Concen: 1.50 ppbv
RT: 8.43 min Scan# 677
Delta R.T. 0.03 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 45 Resp: 63281

Ion	Ratio	Lower	Upper
45	100		
44	0.0	5.2	7.8#
43	0.0	101.1	151.7#

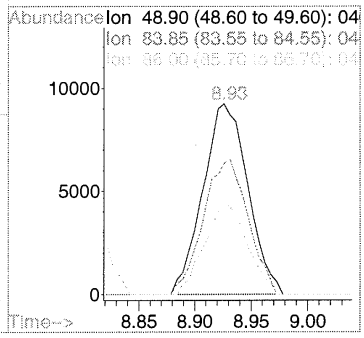


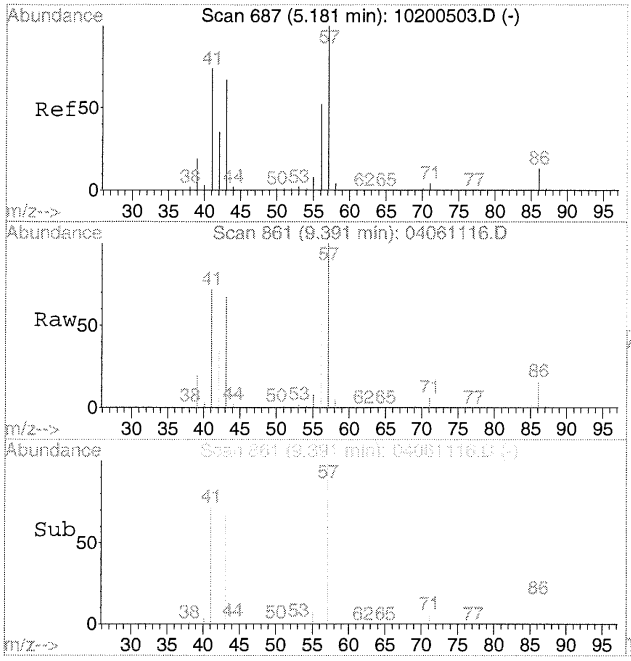


#17
Methylene chloride
Concen: 0.54 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 49 Resp: 25669

Ion	Ratio	Lower	Upper
49	100		
84	70.5	65.4	98.2
86	45.5	42.3	63.5

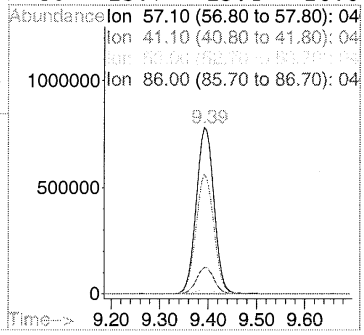


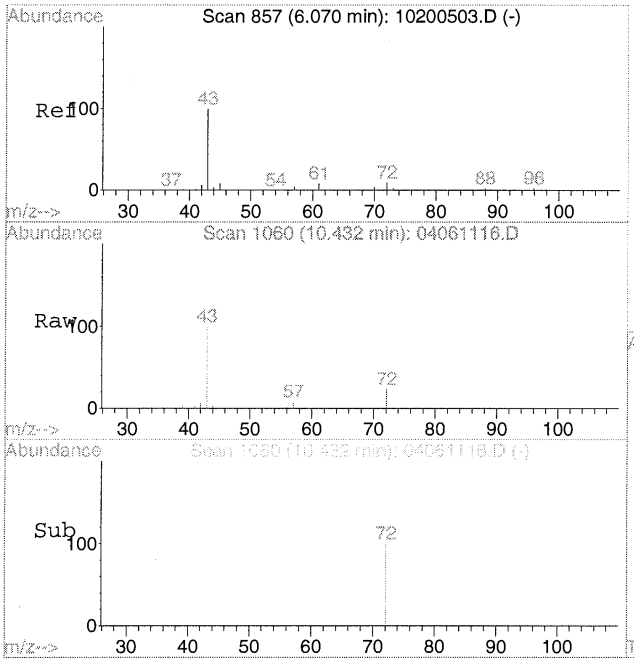


#20
n-Hexane
Concen: 28.74 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 57 Resp: 1991236

Ion	Ratio	Lower	Upper
57	100		
41	72.2	57.2	85.8
53	2.4	1.8	2.8
86	15.7	13.4	20.0

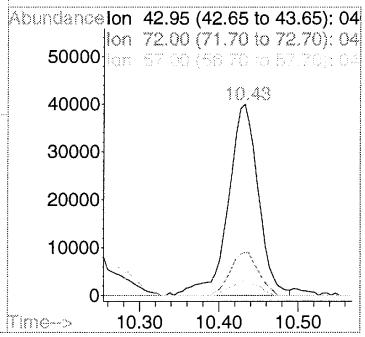


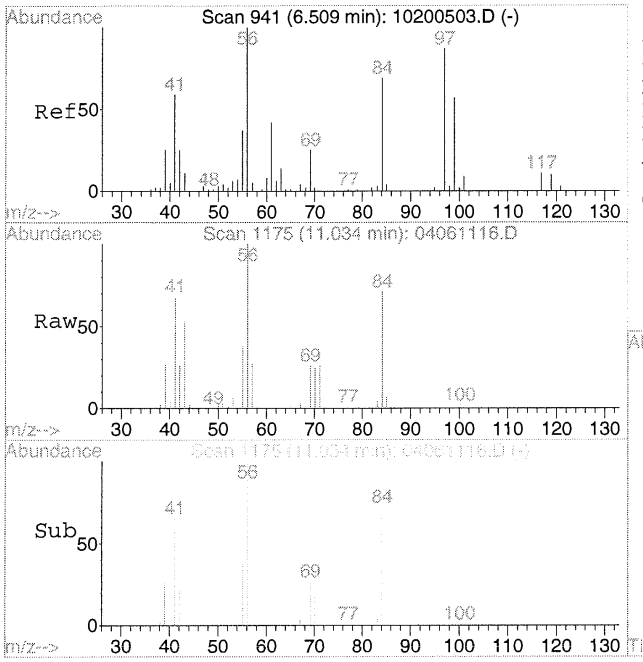


#24
2-Butanone
Concen: 1.75 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 43 Resp: 105478

Ion	Ratio	Lower	Upper
43	100		
72	21.3	23.4	35.2#
57	7.2	6.9	10.3

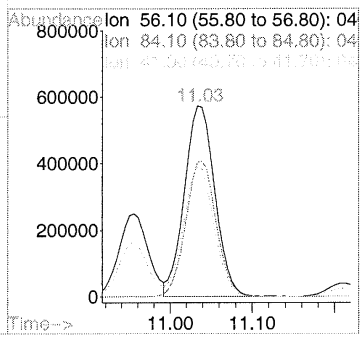


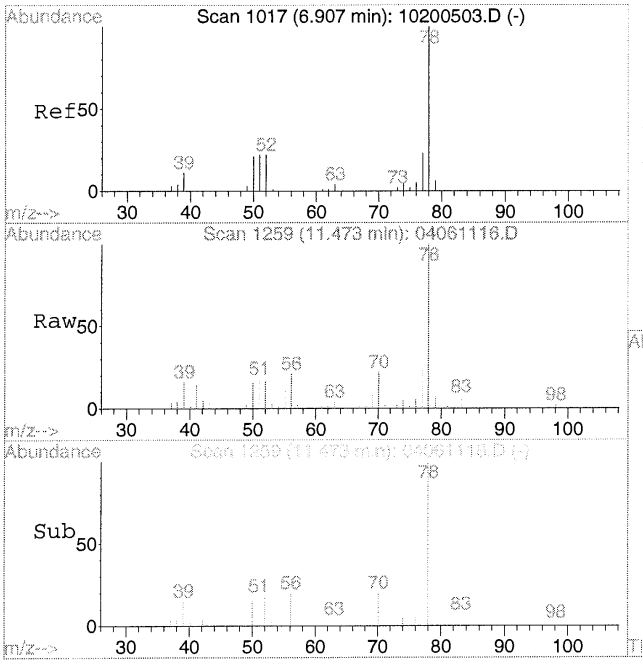


#29
Cyclohexane
Concen: 21.12 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 56 Resp: 1481909

Ion	Ratio	Lower	Upper
56	100		
84	71.6	72.4	108.6#
41	68.1	43.8	65.8#

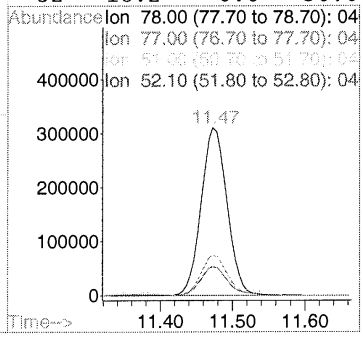


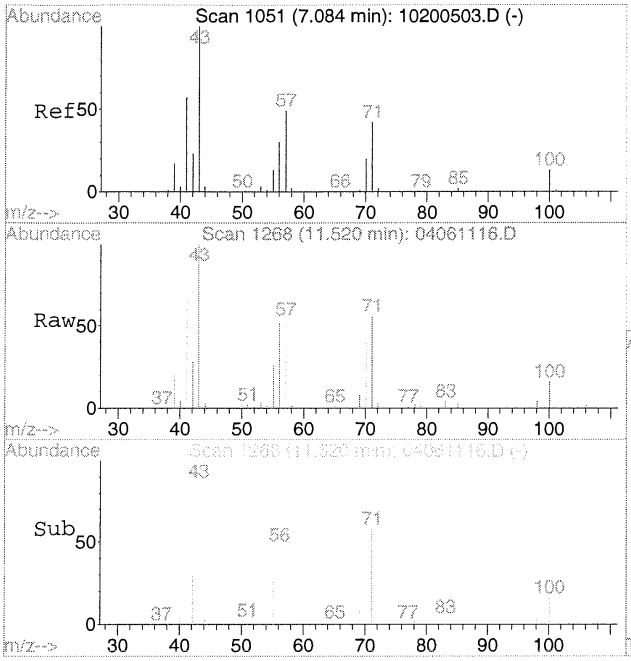


#31
Benzene
Concen: 6.61 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 78 Resp: 775030

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	20.9	0.0	36.1
52	18.2	0.0	36.0

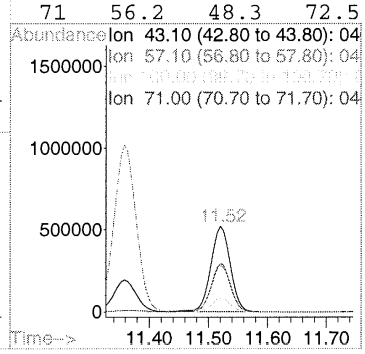


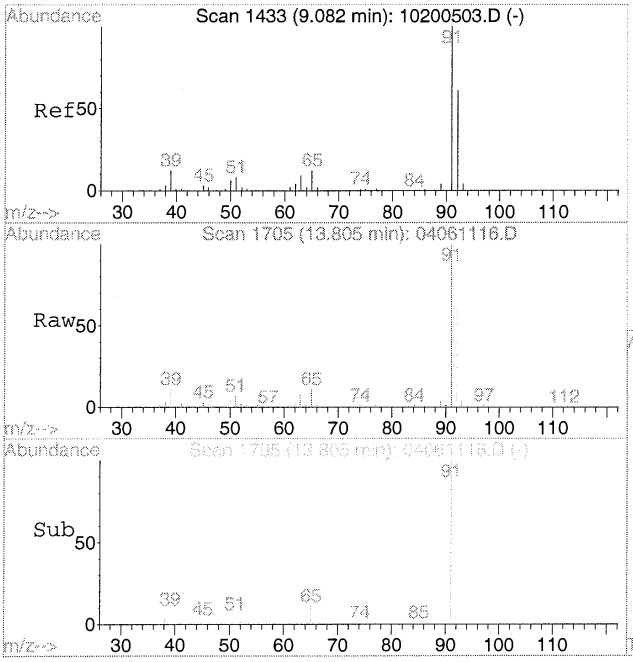


#34
Heptane
Concen: 14.40 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 43 Resp: 1185585

Ion	Ratio	Lower	Upper
43	100		
57	56.3	42.2	63.4
100	15.4	17.3	25.9#
71	56.2	48.3	72.5

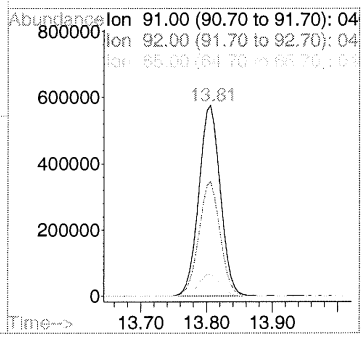


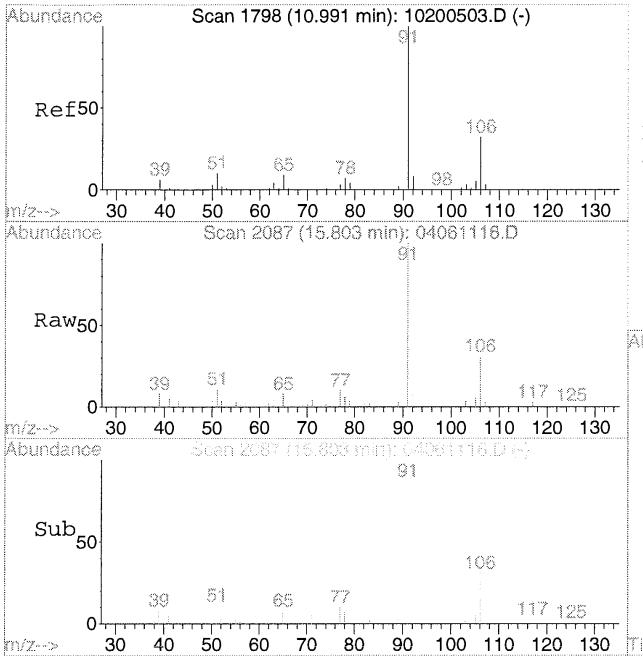


#41
Toluene
Concen: 10.19 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 91 Resp: 1309482

Ion	Ratio	Lower	Upper
91	100		
92	59.1	40.5	80.5
65	11.4	0.0	31.2

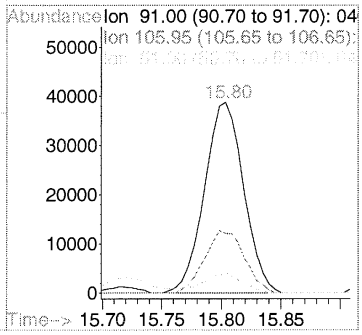


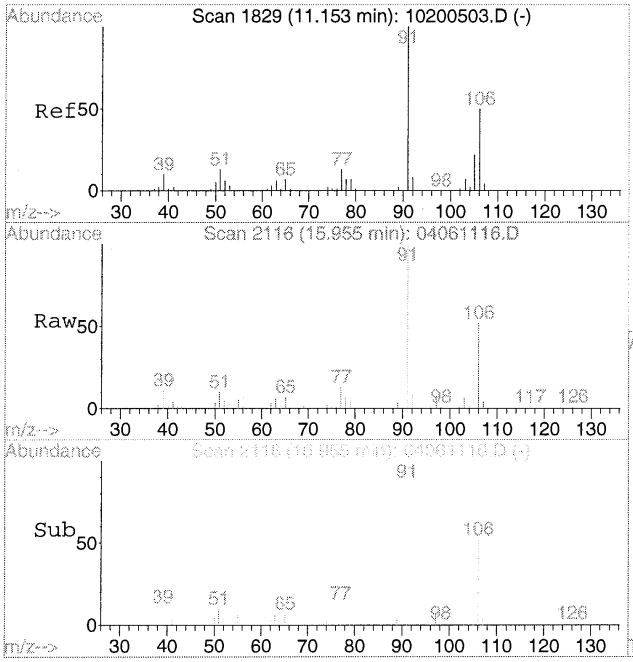


#50
Ethylbenzene
Concen: 0.62 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 91 Resp: 88234

Ion	Ratio	Lower	Upper
91	100		
106	33.3	14.9	54.9
51	10.3	0.0	33.1

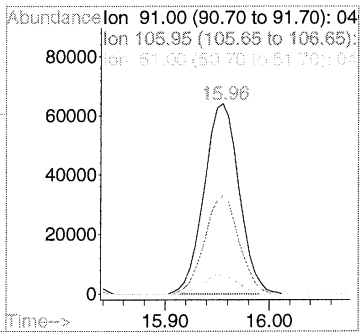




#51
m,p-Xylene
Concen: 1.36 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061116.D
Acq: 6 Apr 2011 10:06 pm

Tgt Ion: 91 Resp: 148976

Ion	Ratio	Lower	Upper
91	100		
106	50.5	35.6	75.6
51	10.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061117.D Vial: 8
Acq On : 6 Apr 2011 10:48 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:54 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	478577	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1753137	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1210849	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	748989	12.34	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.72%				
Target Compounds							Qvalue
14) Acetone	8.37	43	82817	1.40	ppbv	#	95
17) Methylene chloride	8.92	49	27176	0.56	ppbv		93
20) n-Hexane	9.39	57	251679	3.60	ppbv		95
29) Cyclohexane	11.03	56	228166	3.22	ppbv	#	79
31) Benzene	11.47	78	111708	0.94	ppbv		94
34) Heptane	11.52	43	161357	1.91	ppbv	#	93
41) Toluene	13.81	91	234425	1.77	ppbv		98

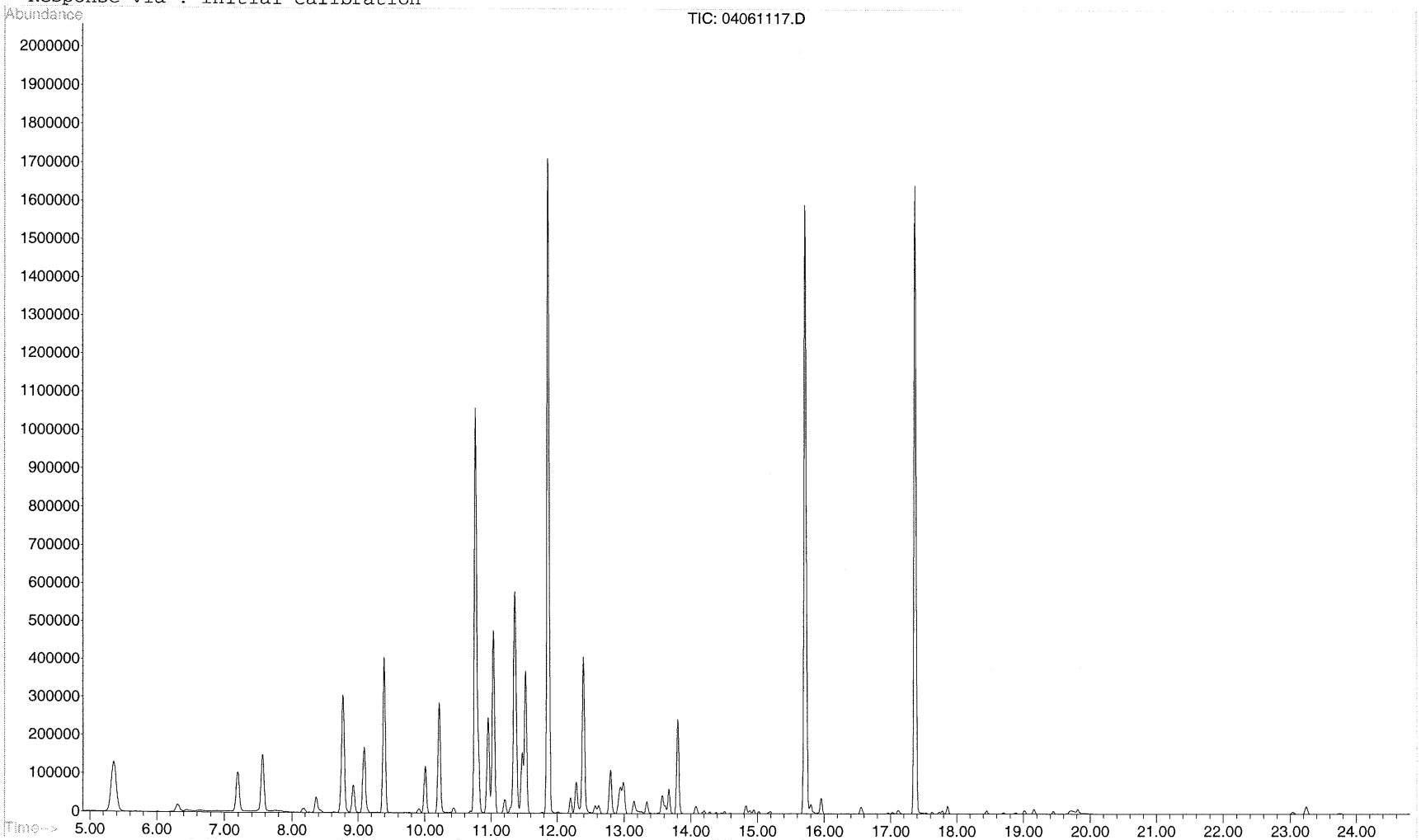
reported only Ch 4/15/11

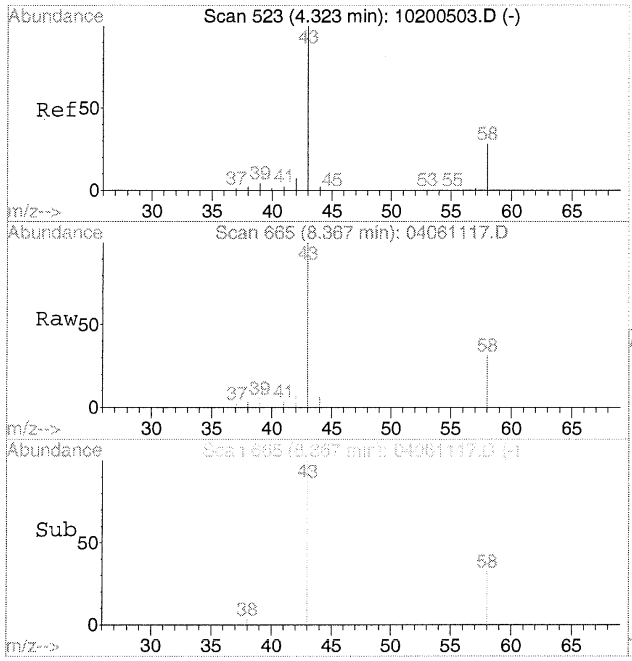
(#) = qualifier out of range (m) = manual integration
04061117.D 031611V1.M Thu Apr 14 13:15:21 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061117.D Vial: 8
Acq On : 6 Apr 2011 10:48 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:54 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

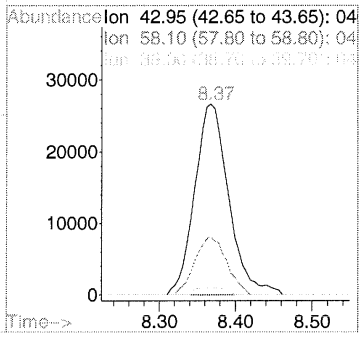


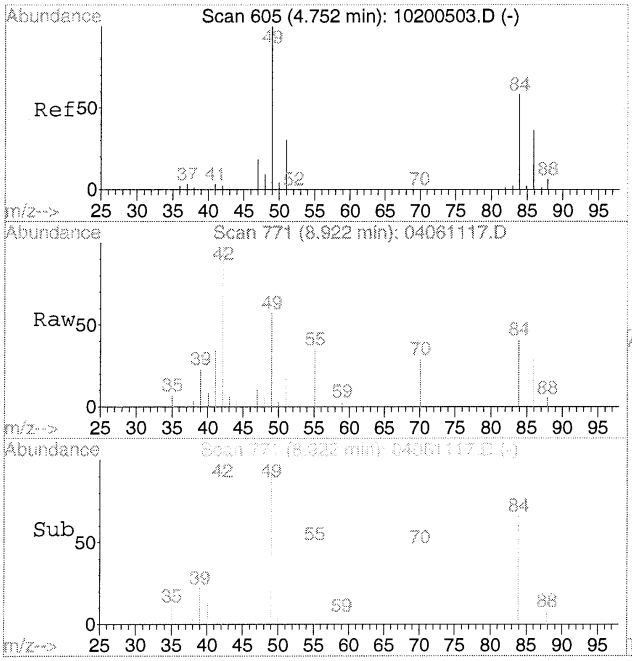


#14
Acetone
Concen: 1.40 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 43 Resp: 82817

Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.0	33.0
39	3.2	6.5	9.7#

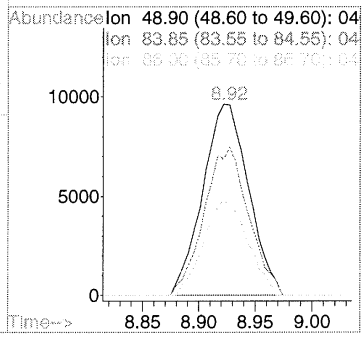


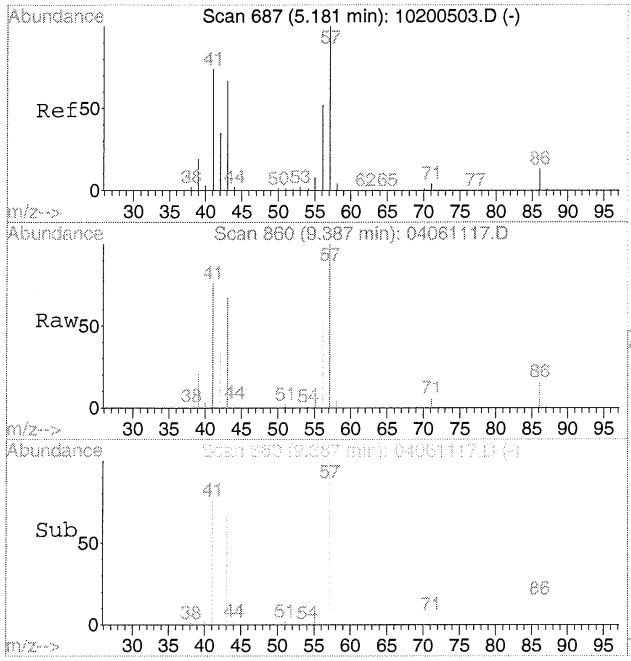


#17
Methylene chloride
Concen: 0.56 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 49 Resp: 27176

Ion	Ratio	Lower	Upper
49	100		
84	75.5	65.4	98.2
86	47.9	42.3	63.5

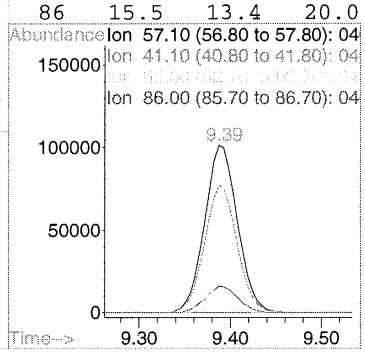


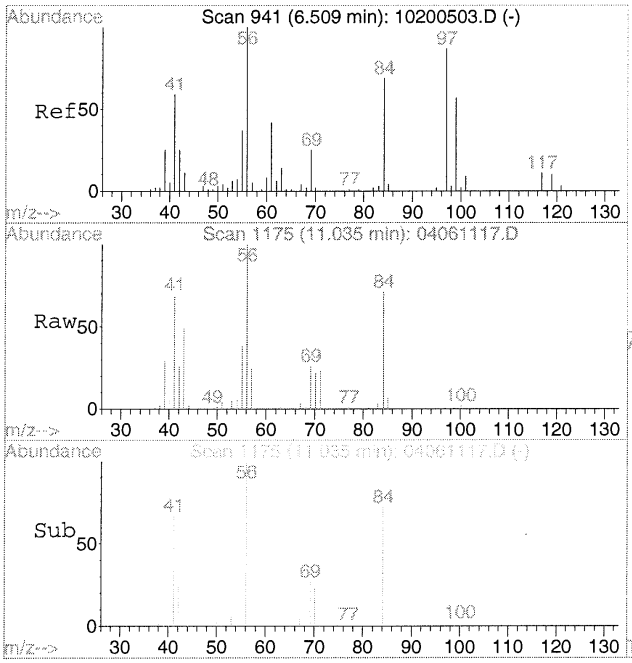


#20
n-Hexane
Concen: 3.60 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 57 Resp: 251679

Ion	Ratio	Lower	Upper
57	100		
41	75.7	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

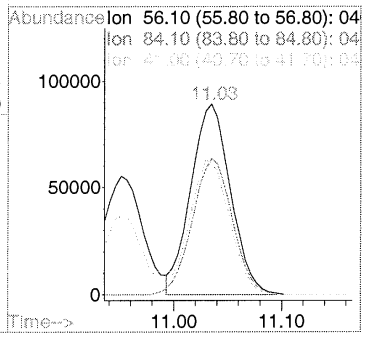


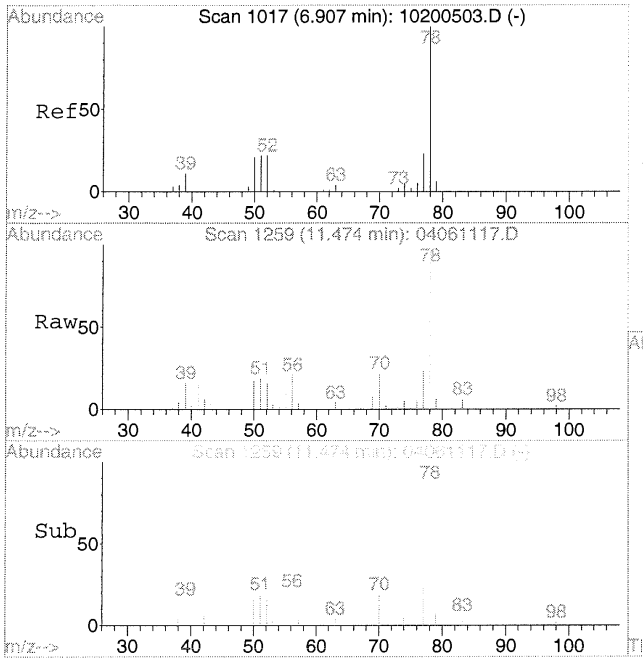


#29
Cyclohexane
Concen: 3.22 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 56 Resp: 228166

Ion	Ratio	Lower	Upper
56	100		
84	71.8	72.4	108.6#
41	70.8	43.8	65.8#

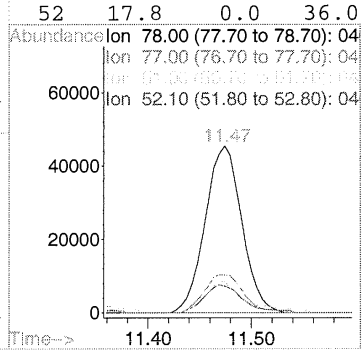


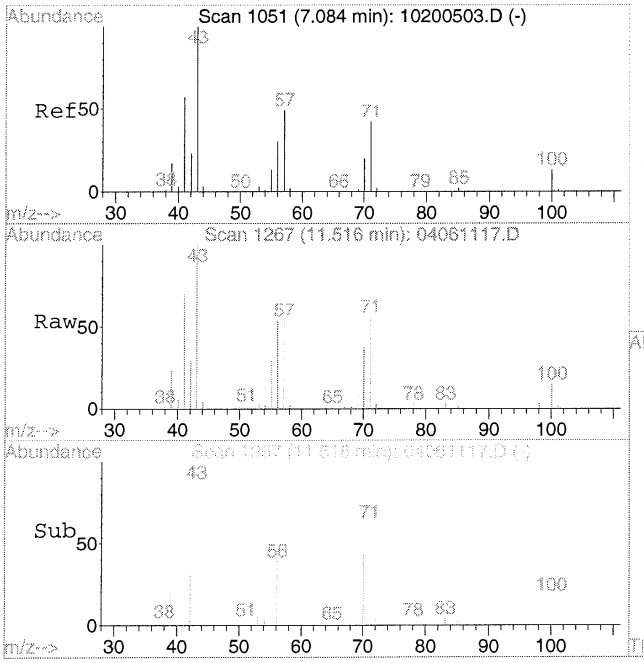


#31
Benzene
Concen: 0.94 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 78 Resp: 111708

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	21.5	0.0	36.1
52	17.8	0.0	36.0

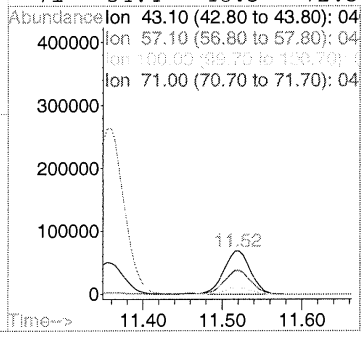


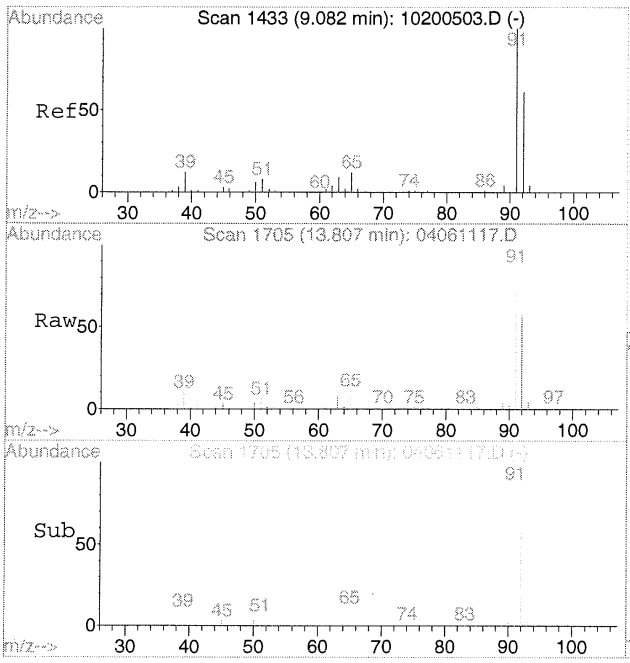


#34
Heptane
Concen: 1.91 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 43 Resp: 161357

Ion	Ratio	Lower	Upper
43	100		
57	54.5	42.2	63.4
100	15.2	17.3	25.9#
71	54.4	48.3	72.5

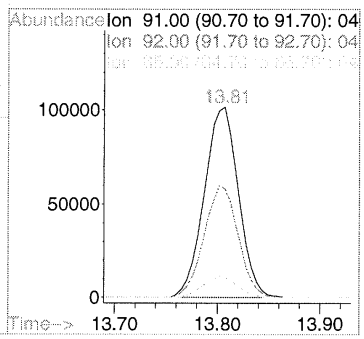




#41
Toluene
Concen: 1.77 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061117.D
Acq: 6 Apr 2011 10:48 pm

Tgt Ion: 91 Resp: 234425

Ion	Ratio	Lower	Upper
91	100		
92	58.7	40.5	80.5
65	10.9	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061118.D Vial: 9
Acq On : 6 Apr 2011 11:31 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:54 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	458502	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1655503	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1191283	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	735216	12.31	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.48%				
Target Compounds							Qvalue
14) Acetone	8.37	43	368211	6.52	ppbv	#	94
16) 2-Propanol	8.42	45	26581	0.65	ppbv	#	1
17) Methylene chloride	8.93	49	27181	0.59	ppbv		90
20) n-Hexane *	9.39	57	1328893	19.85	ppbv		97
24) 2-Butanone	10.43	43	85500	1.47	ppbv	#	87
29) Cyclohexane *	11.03	56	1269686	18.73	ppbv	#	80
31) Benzene	11.47	78	560447	4.94	ppbv		93
34) Heptane	11.52	43	850448	10.64	ppbv	#	94
41) Toluene	13.80	91	1028080	8.24	ppbv		98
51) m,p-Xylene	15.96	91	75197	0.70	ppbv		94

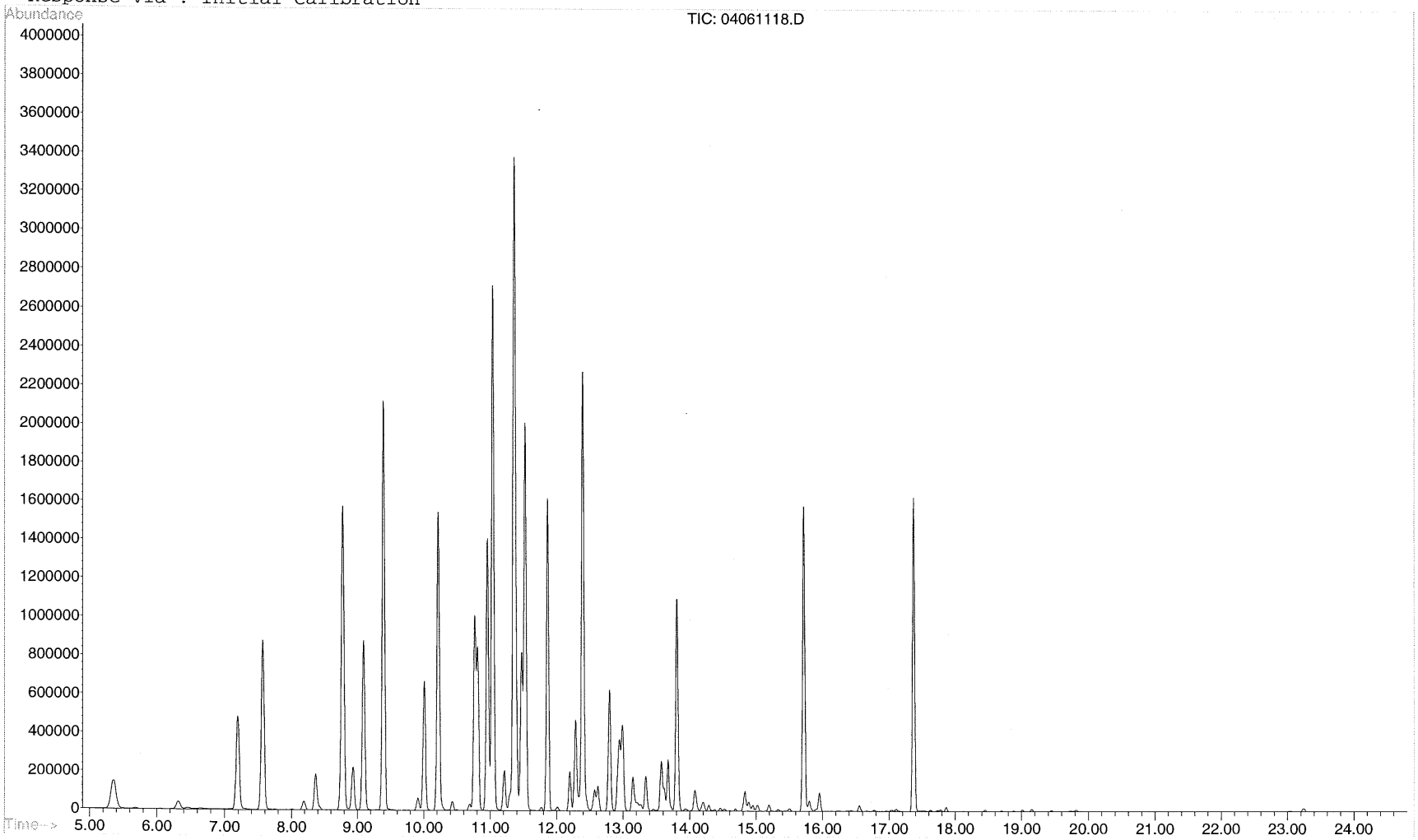
* - reported only
CA 4/15/11

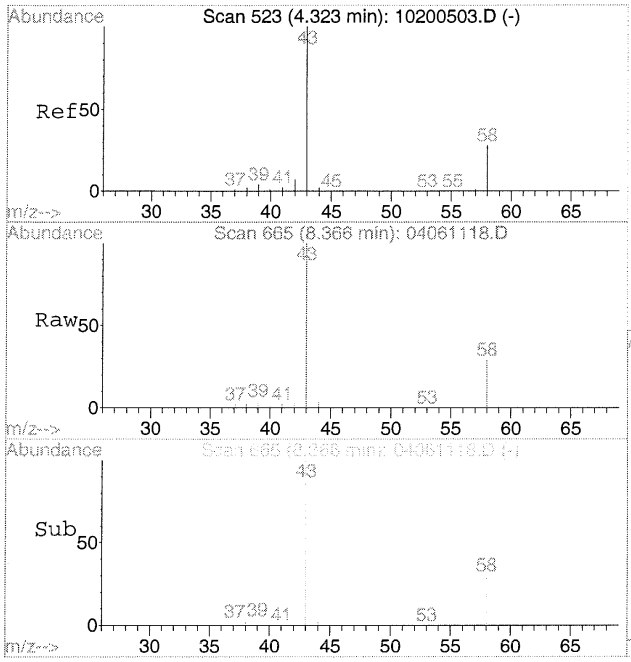
(#) = qualifier out of range (m) = manual integration
04061118.D 031611V1.M Thu Apr 14 13:15:32 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061118.D Vial: 9
Acq On : 6 Apr 2011 11:31 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:54 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

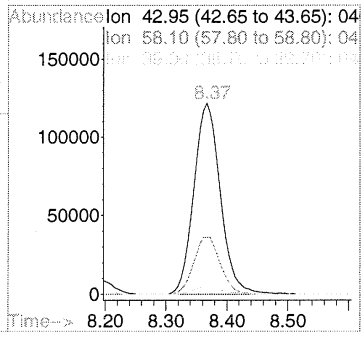


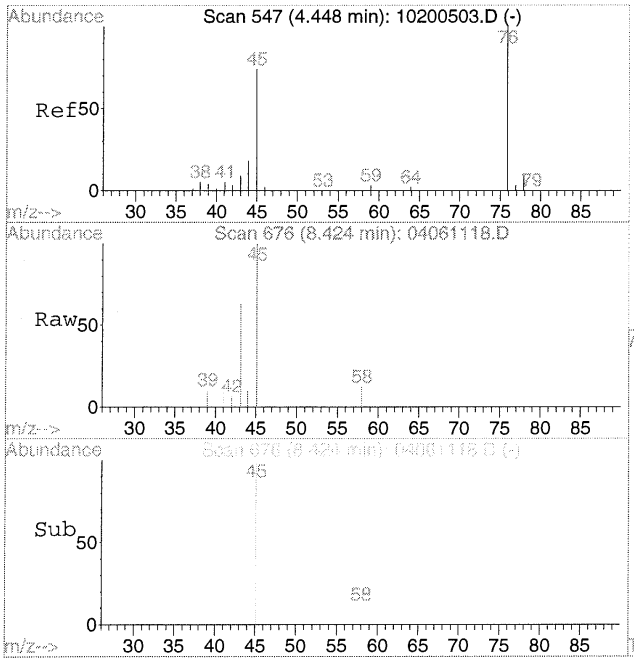


#14
Acetone
Concen: 6.52 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 43 Resp: 368211

Ion	Ratio	Lower	Upper
43	100		
58	29.7	22.0	33.0
39	4.3	6.5	9.7#

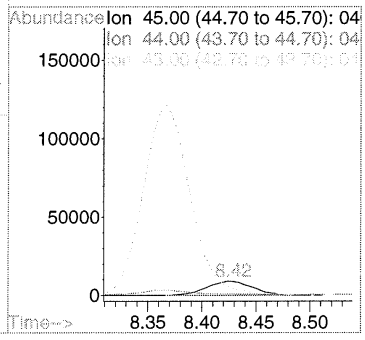


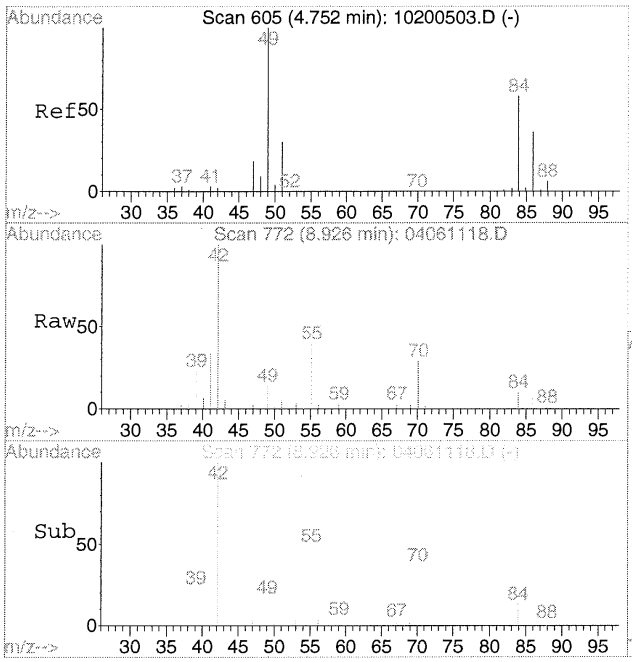


#16
2-Propanol
Concen: 0.65 ppbv
RT: 8.42 min Scan# 676
Delta R.T. 0.02 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 45 Resp: 26581

Ion	Ratio	Lower	Upper
45	100		
44	0.0	5.2	7.8#
43	0.0	101.1	151.7#

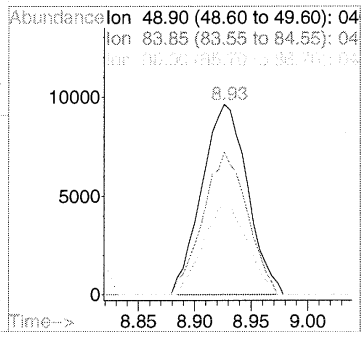


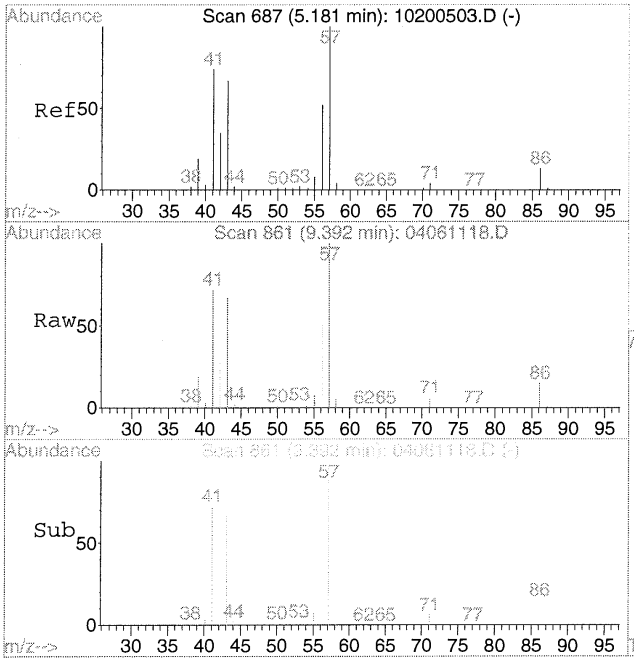


#17
Methylene chloride
Concen: 0.59 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 49 Resp: 27181

Ion	Ratio	Lower	Upper
49	100		
84	72.7	65.4	98.2
86	46.1	42.3	63.5

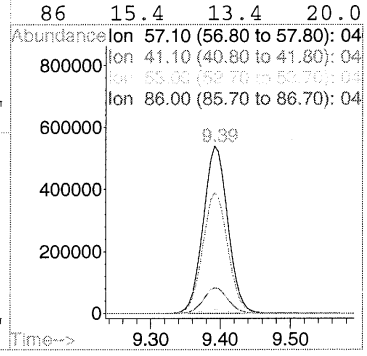


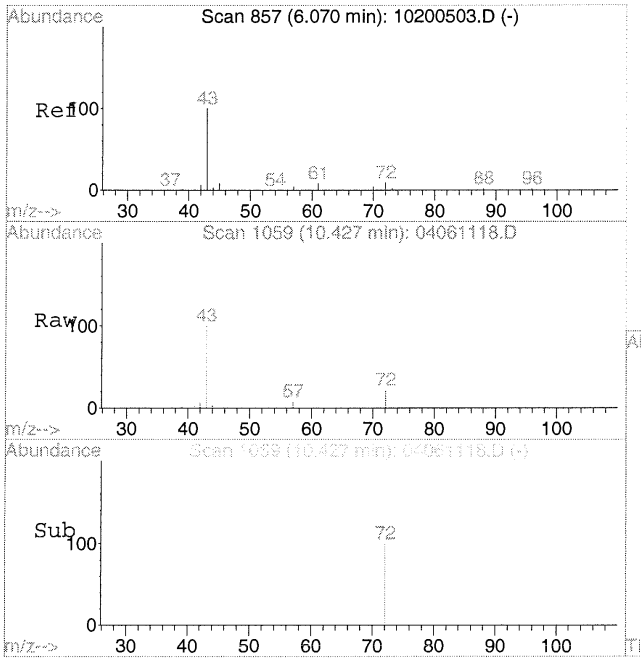


#20
n-Hexane
Concen: 19.85 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 57 Resp: 1328893

Ion	Ratio	Lower	Upper
57	100		
41	73.7	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

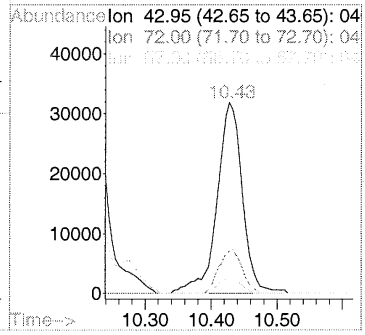


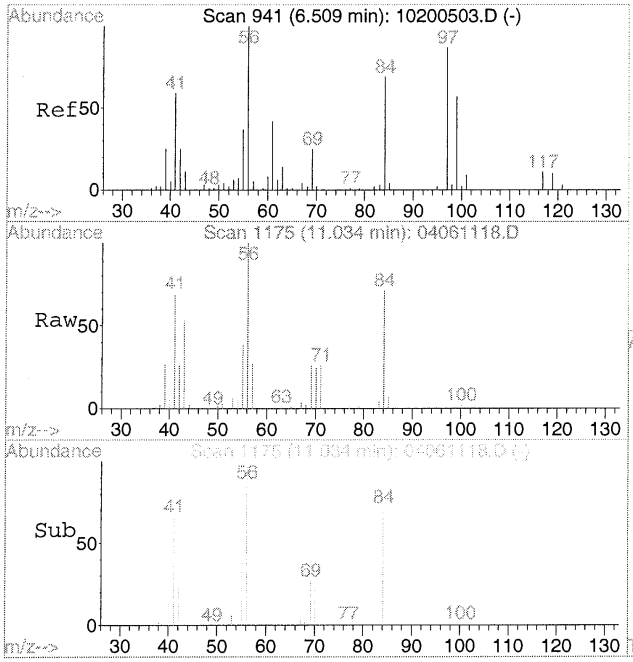


#24
2-Butanone
Concen: 1.47 ppbv
RT: 10.43 min Scan# 1059
Delta R.T. 0.01 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 43 Resp: 85500

Ion	Ratio	Lower	Upper
43	100		
72	21.0	23.4	35.2#
57	7.1	6.9	10.3

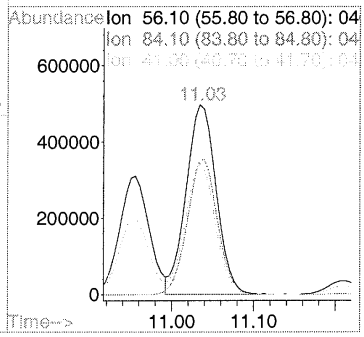


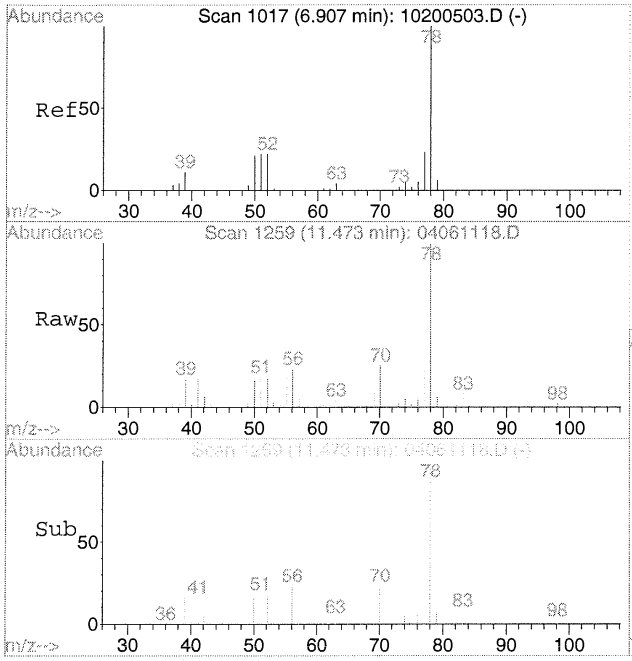


#29
Cyclohexane
Concen: 18.73 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 56 Resp: 1269686

Ion	Ratio	Lower	Upper
56	100		
84	71.8	72.4	108.6#
41	69.1	43.8	65.8#

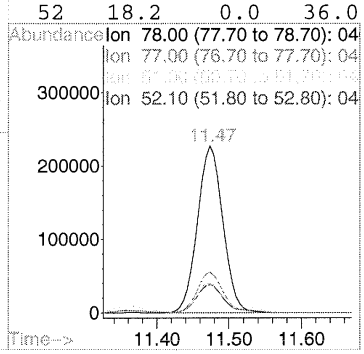


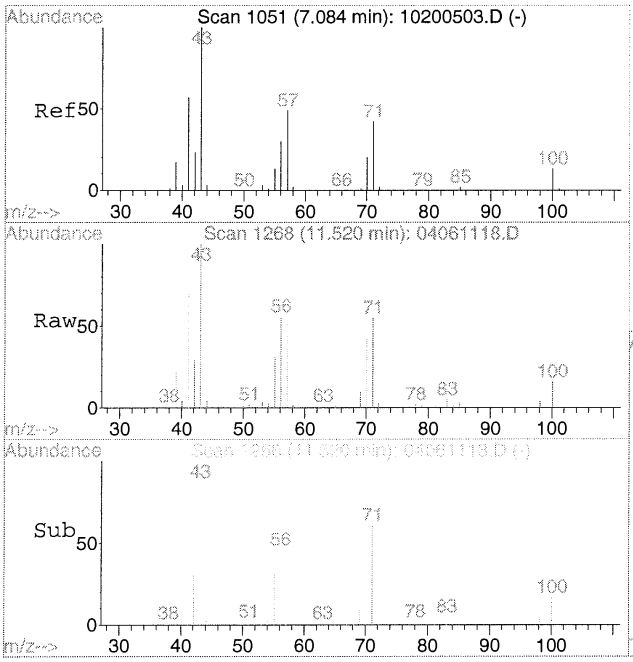


#31
Benzene
Concen: 4.94 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 78 Resp: 560447

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	21.6	0.0	36.1
52	18.2	0.0	36.0

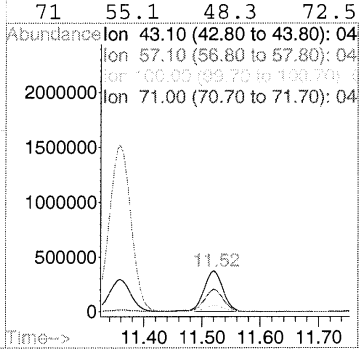


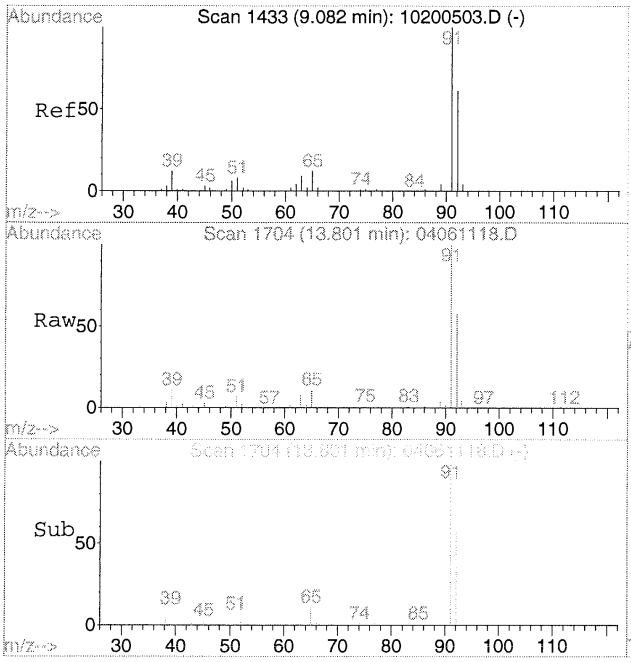


#34
Heptane
Concen: 10.64 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 43 Resp: 850448

Ion	Ratio	Lower	Upper
43	100		
57	54.6	42.2	63.4
100	14.9	17.3	25.9#
71	55.1	48.3	72.5

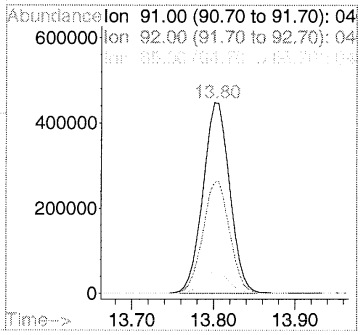


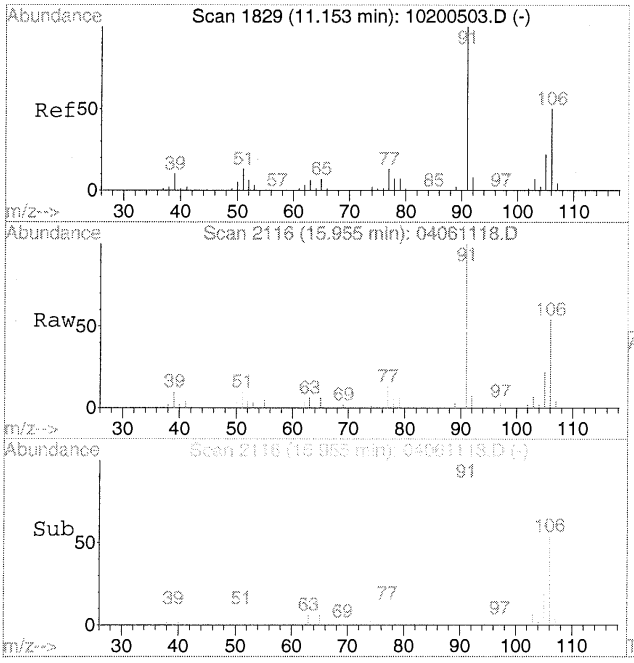


#41
Toluene
Concen: 8.24 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 91 Resp: 1028080

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	11.2	0.0	31.2

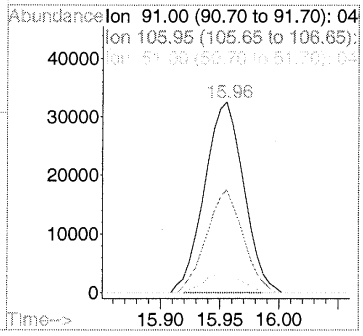




#51
m,p-Xylene
Concen: 0.70 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061118.D
Acq: 6 Apr 2011 11:31 pm

Tgt Ion: 91 Resp: 75197

Ion	Ratio	Lower	Upper
91	100		
106	50.2	35.6	75.6
51	9.8	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061119.D Vial: 10
Acq On : 7 Apr 2011 12:13 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:55 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	463590	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	1648980	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1178344	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	727148	12.31	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.48%			
Target Compounds						Qvalue
14) Acetone	8.37	43	548673	9.60	ppbv #	93
17) Methylene chloride	8.93	49	31095	0.67	ppbv	92
20) n-Hexane *	9.39	57	1231278	18.19	ppbv	97
24) 2-Butanone	10.43	43	133383	2.26	ppbv #	88
29) Cyclohexane *	11.03	56	1756271	25.62	ppbv #	79
31) Benzene	11.47	78	802030	7.00	ppbv	93
34) Heptane *	11.52	43	1595824	20.04	ppbv #	94
41) Toluene	13.81	91	1450068	11.67	ppbv	99
50) Ethylbenzene	15.80	91	81516	0.60	ppbv	94
51) m,p-Xylene	15.96	91	136820	1.29	ppbv	94

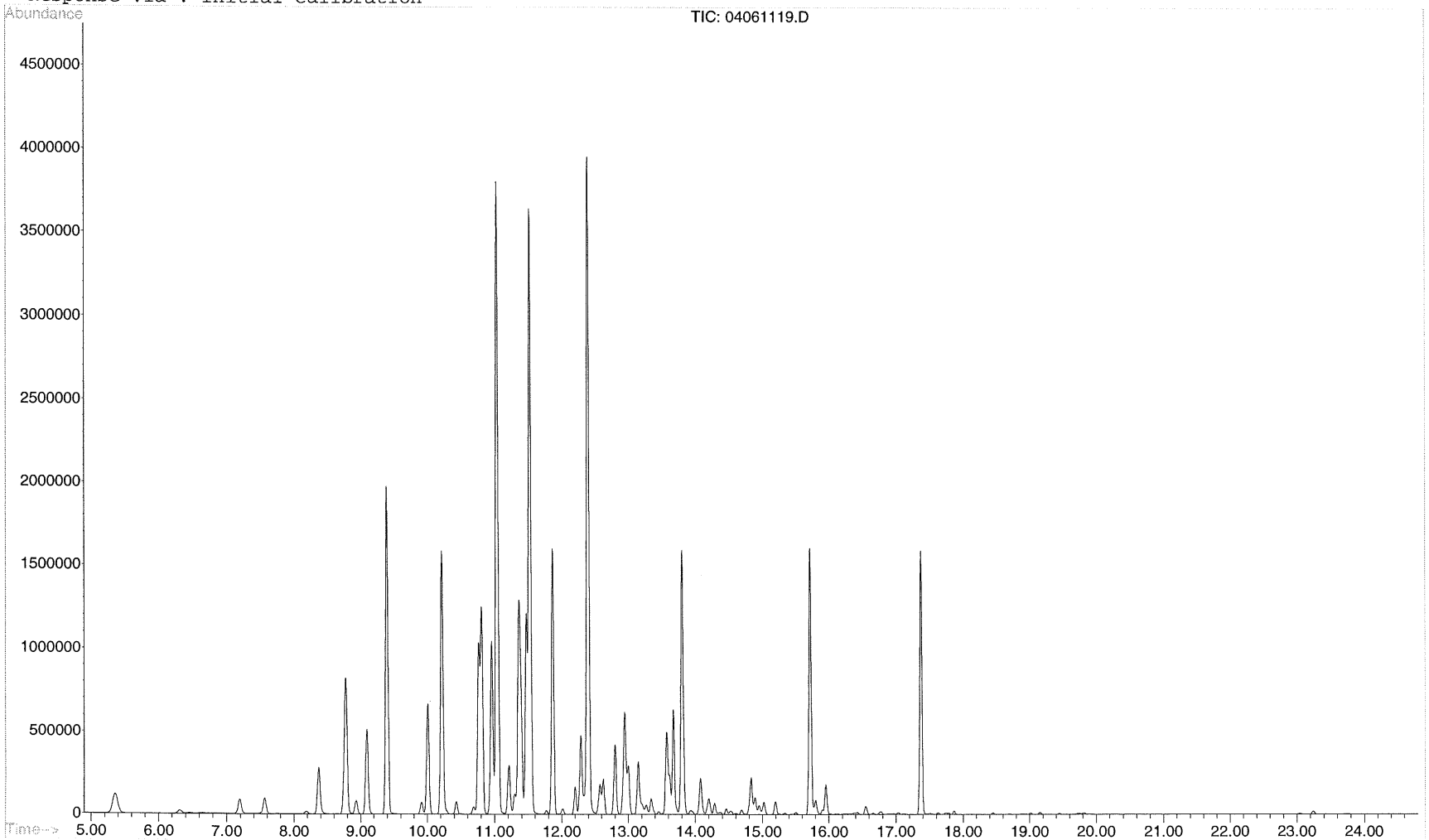
* = Reported only ch 4/15/11

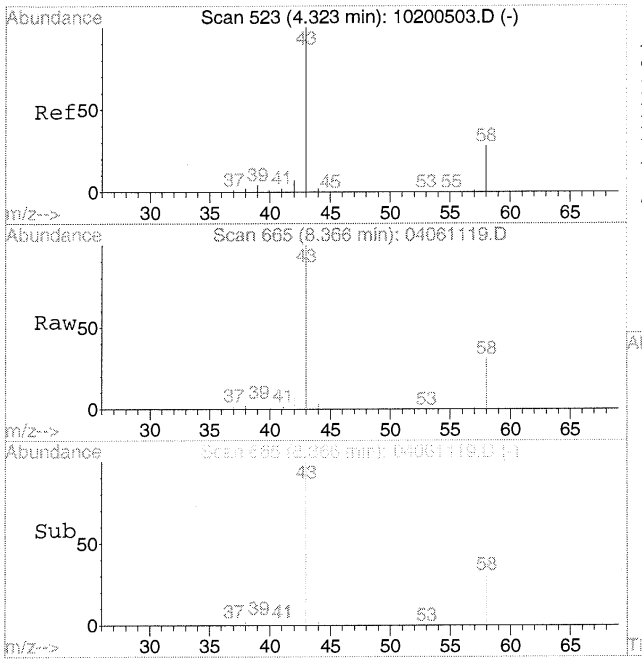
(#) = qualifier out of range (m) = manual integration
04061119.D 031611V1.M Thu Apr 14 13:23:01 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061119.D Vial: 10
Acq On : 7 Apr 2011 12:13 am Operator: Michael Truchan/Rachel Hill
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:55 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

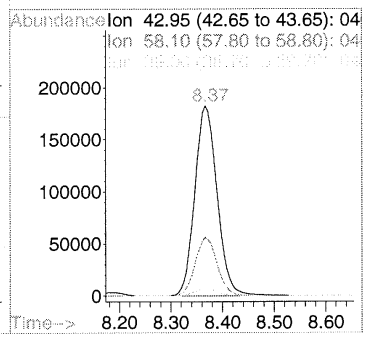


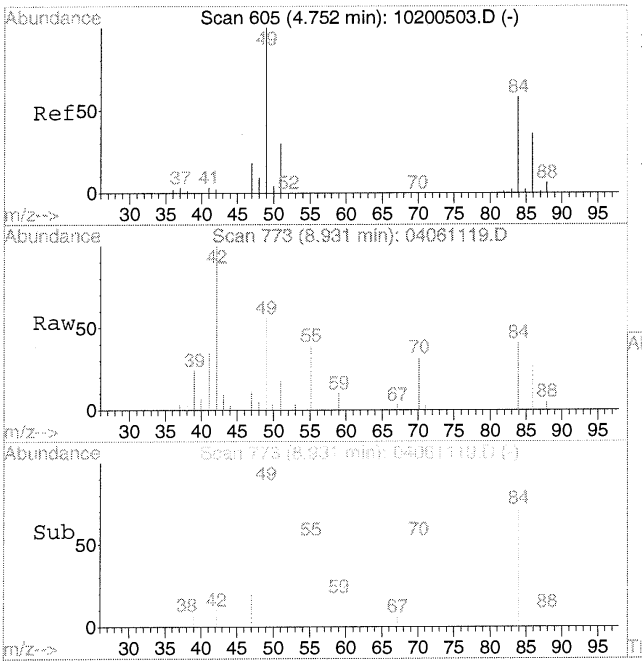


#14
Acetone
Concen: 9.60 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 43 Resp: 548673

Ion	Ratio	Lower	Upper
43	100		
58	30.3	22.0	33.0
39	4.1	6.5	9.7#

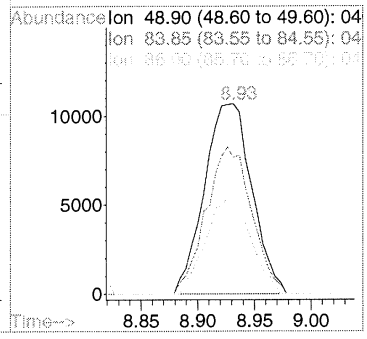


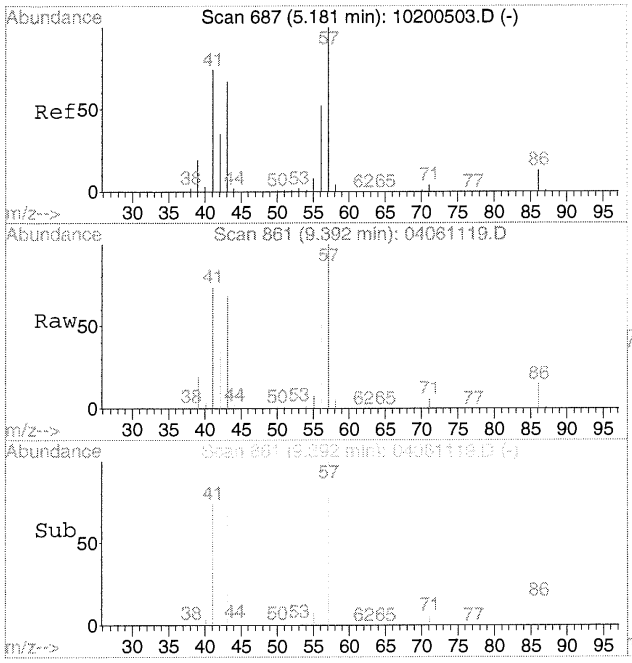


#17
Methylene chloride
Concen: 0.67 ppbv
RT: 8.93 min Scan# 773
Delta R.T. 0.01 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 49 Resp: 31095

Ion	Ratio	Lower	Upper
49	100		
84	74.2	65.4	98.2
86	47.7	42.3	63.5

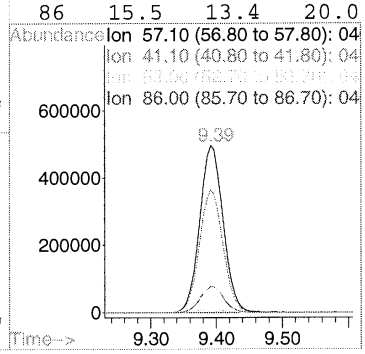


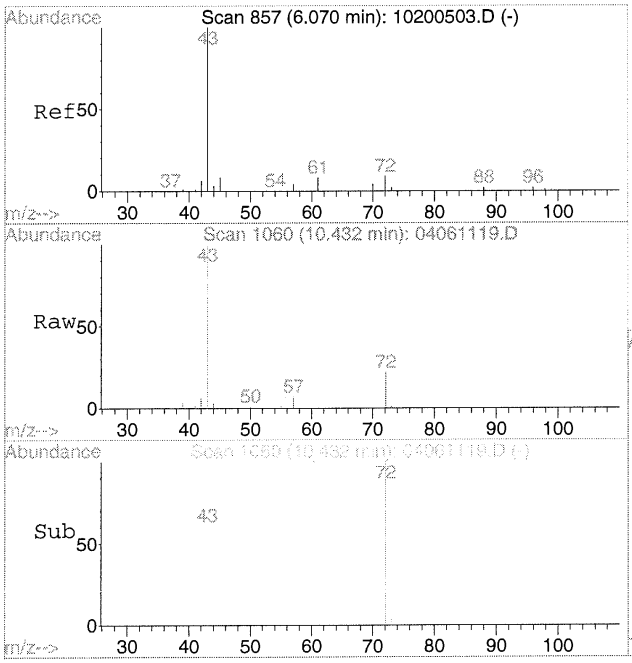


#20
n-Hexane
Concen: 18.19 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 57 Resp: 1231278

Ion	Ratio	Lower	Upper
57	100		
41	74.2	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

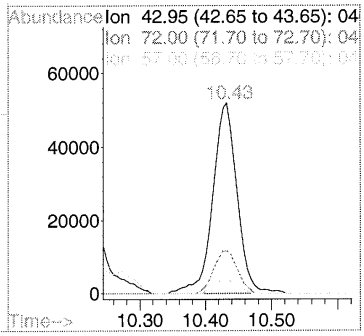


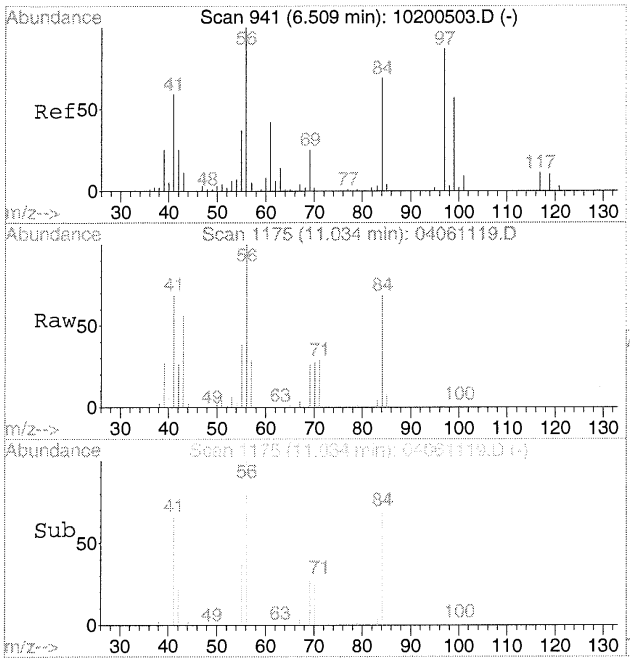


#24
2-Butanone
Concen: 2.26 ppbv
RT: 10.43 min Scan# 1060
Delta R.T. 0.01 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 43 Resp: 133383

Ion	Ratio	Lower	Upper
43	100		
72	21.9	23.4	35.2#
57	7.1	6.9	10.3

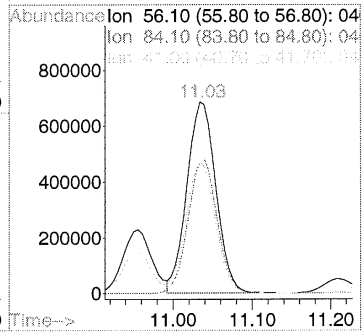


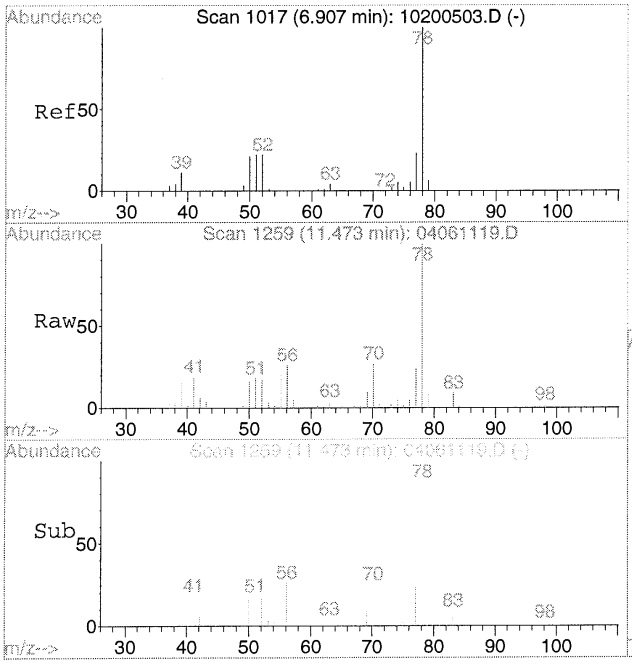


#29
Cyclohexane
Concen: 25.62 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 56 Resp: 1756271

Ion	Ratio	Lower	Upper
56	100		
84	70.8	72.4	108.6#
41	69.9	43.8	65.8#

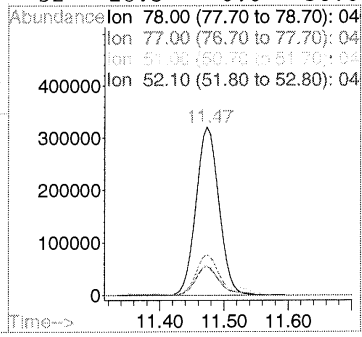


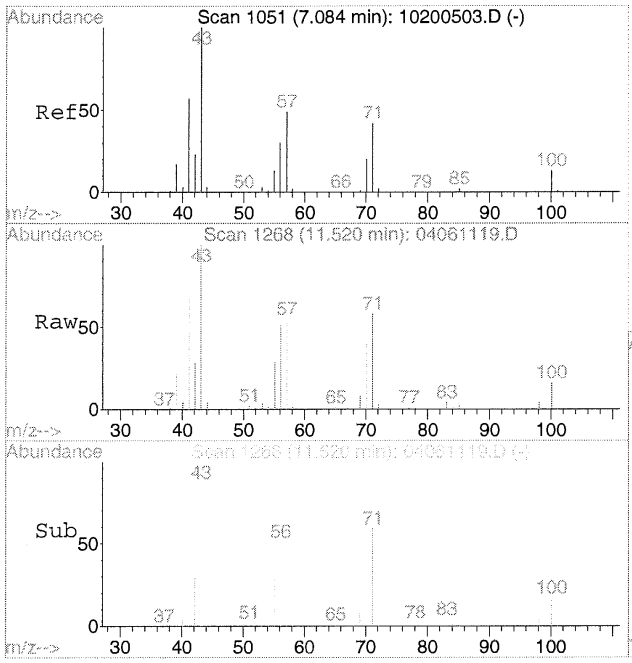


#31
Benzene
Concen: 7.00 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 78 Resp: 802030

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	22.0	0.0	36.1
52	18.5	0.0	36.0

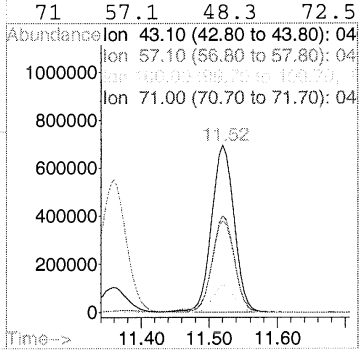


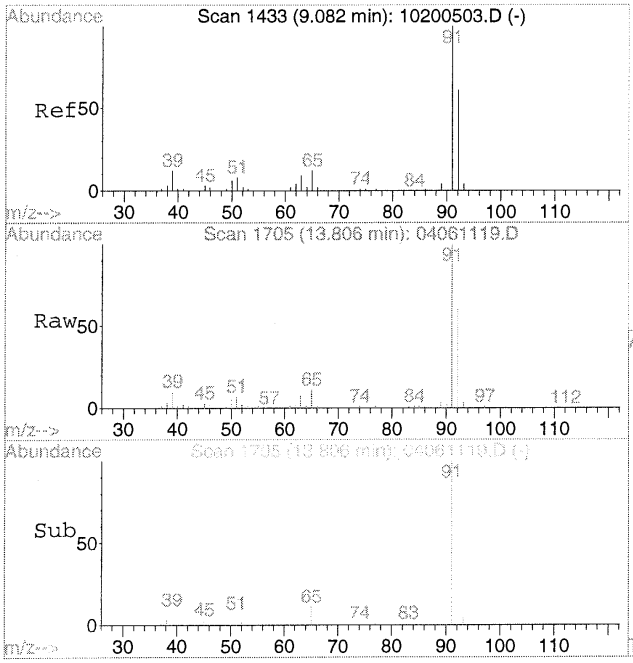


#34
Heptane
Concen: 20.04 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 43 Resp: 1595824

Ion	Ratio	Lower	Upper
43	100		
57	56.3	42.2	63.4
100	15.6	17.3	25.9#
71	57.1	48.3	72.5

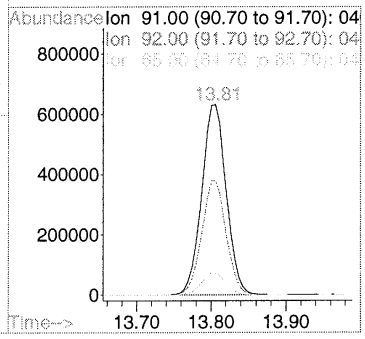


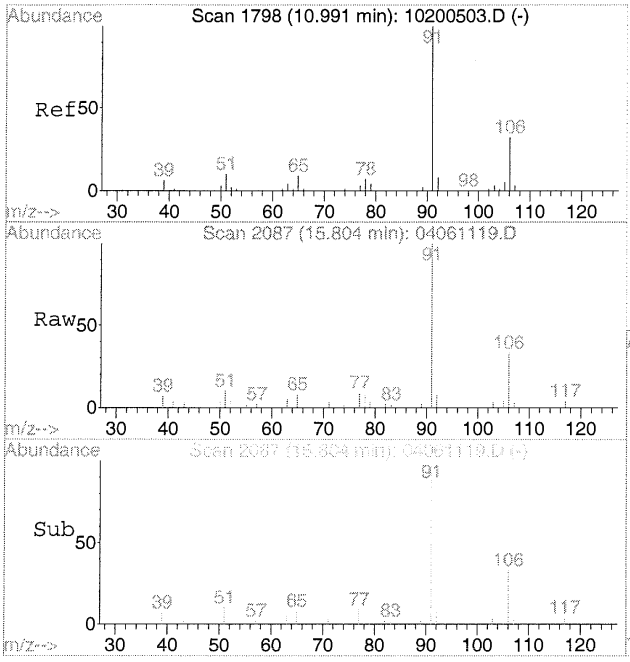


#41
Toluene
Concen: 11.67 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 91 Resp: 1450068

Ion	Ratio	Lower	Upper
91	100		
92	59.5	40.5	80.5
65	11.4	0.0	31.2

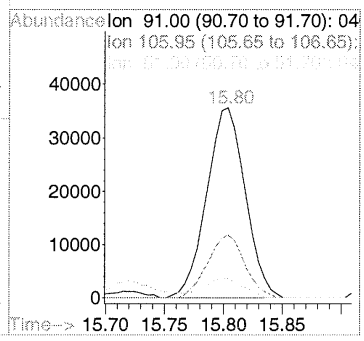


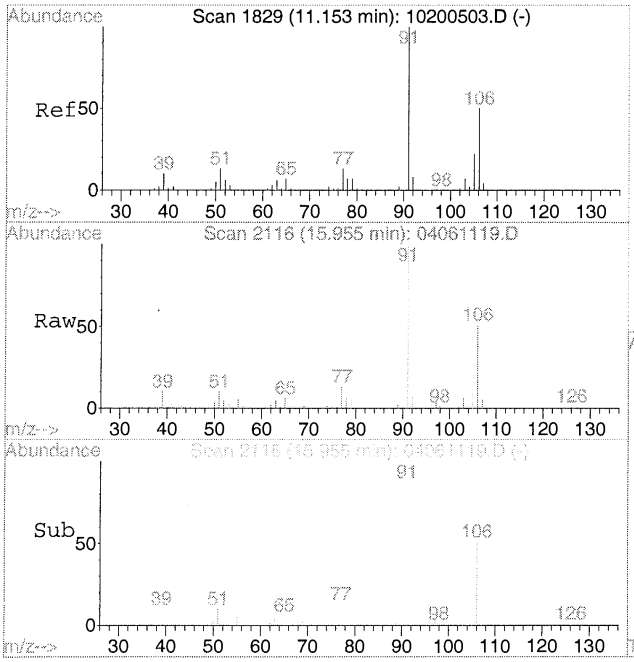


#50
Ethylbenzene
Concen: 0.60 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 91 Resp: 81516

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	10.3	0.0	33.1

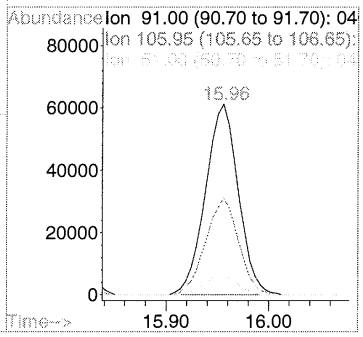




#51
m,p-Xylene
Concen: 1.29 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061119.D
Acq: 7 Apr 2011 12:13 am

Tgt Ion: 91 Resp: 136820

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.6	75.6
51	10.4	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061128.D Vial: 2
Acq On : 7 Apr 2011 10:15 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 10:40 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	470394	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1736457	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1220964	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	765689	12.51	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.08%				
Target Compounds							Qvalue
2) Propylene	5.68	41	44278	1.26	ppbv		98
3) Dichlorodifluoromethane	5.75	85	115549	1.00	ppbv		98
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	89913	1.05	ppbv		96
5) Chloromethane	6.18	50	46125	1.15	ppbv	#	95
6) Vinyl chloride	6.38	62	50468	1.12	ppbv	#	97
7) 1,3-Butadiene	6.45	39	42011	1.18	ppbv		94
8) Bromomethane	7.02	94	43071	1.04	ppbv		99
9) Chloroethane	7.17	64	24163	1.00	ppbv	#	88
10) Trichlorofluoromethane	7.50	101	118574	1.07	ppbv		98
11) Ethanol	7.74	45	6632	0.85	ppbv	#	74
12) Freon113	8.17	101	86168	0.97	ppbv		98
13) 1,1-Dichloroethene	8.27	61	69856	1.07	ppbv		96
14) Acetone	8.36	43	56733	0.98	ppbv	#	94
15) Carbon disulfide	8.64	76	123368	1.06	ppbv	#	98
16) 2-Propanol	8.42	45	33271	0.80	ppbv	#	1
17) Methylene chloride	8.93	49	51987	1.10	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	98184	0.91	ppbv	#	1
19) trans-1,2-Dichloroethene	9.21	61	60269	0.98	ppbv		93
20) n-Hexane	9.39	57	508044	7.40	ppbv		95
21) 1,1-Dichloroethane	9.77	63	68538	0.91	ppbv		98
22) Vinyl acetate	9.70	43	57900	0.75	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	40130	0.93	ppbv		96
24) 2-Butanone	10.43	43	52779	0.88	ppbv		92
25) Ethyl acetate	10.37	43	58264	0.78	ppbv	#	100
26) Tetrahydrofuran	10.80	42	91677	2.34	ppbv	#	59
27) Chloroform	10.78	83	81626	1.00	ppbv	#	7
28) 1,1,1-Trichloroethane	11.03	97	82705	0.98	ppbv		98
29) Cyclohexane	11.04	56	495354	7.12	ppbv	#	82
30) Carbon tetrachloride	11.19	117	78707	0.93	ppbv		98
31) Benzene	11.47	78	290579	2.50	ppbv		96
32) 1,2-Dichloroethane	11.55	62	45048	0.96	ppbv	#	79
34) Heptane	11.52	43	290619	3.47	ppbv	#	92
35) Trichloroethene	12.20	130	55892	0.94	ppbv		98
36) 1,2-Dichloropropane	12.56	63	36431	0.87	ppbv		99
37) 1,4-Dioxane	12.64	88	10978	0.66	ppbv	#	88
38) Bromodichloromethane	12.84	83	73461	0.90	ppbv		94
39) cis-1,3-Dichloropropene	13.40	75	50946	0.79	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	12840	0.67	ppbv		93
41) Toluene	13.80	91	347524	2.66	ppbv		97
42) trans-1,3-Dichloropropene	14.11	75	39488	0.74	ppbv	#	89
43) 1,1,2-Trichloroethane	14.38	97	37805	0.89	ppbv		99
44) Tetrachloroethene	14.50	166	71515	0.99	ppbv		98
45) 2-Hexanone	14.58	43	19171	0.69	ppbv		93
46) Chlorodibromomethane	14.93	129	62008	0.87	ppbv		99
47) 1,2-Dibromoethane	15.16	107	53906	0.87	ppbv		98
49) Chlorobenzene	15.76	112	80846	0.94	ppbv	#	70
50) Ethylbenzene	15.80	91	150554	1.06	ppbv		94

(#) = qualifier out of range (m) = manual integration
04061128.D 031611V1.M Thu Apr 14 13:24:21 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061128.D Vial: 2
Acq On : 7 Apr 2011 10:15 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 10:40 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

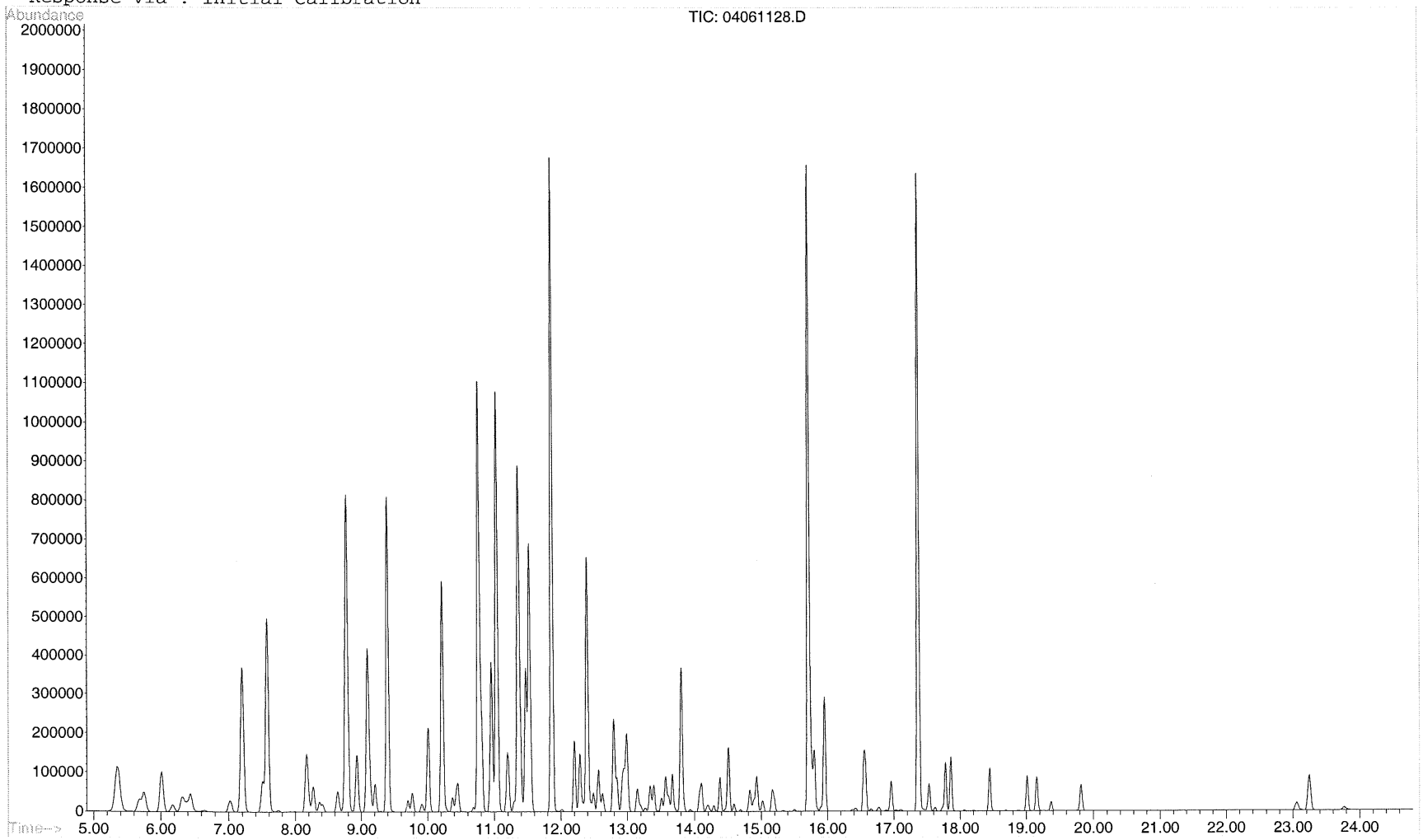
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	236947	2.16	ppbv		93
52)	o-Xylene	16.55	91	110657	1.03	ppbv		97
53)	Styrene	16.58	104	66740	0.91	ppbv		97
54)	Bromoform	16.96	173	53444	0.87	ppbv		98
56)	1,1,2,2-Tetrachloroethane	17.53	83	49860	0.82	ppbv		98
57)	4-Ethyltoluene	17.78	105	125599	0.98	ppbv		96
58)	1,3,5-Trimethylbenzene	17.86	105	102278	0.97	ppbv		93
59)	1,2,4-Trimethylbenzene	18.45	105	91249	0.97	ppbv		97
60)	1,3-Dichlorobenzene	19.01	146	60908	0.93	ppbv		97
61)	1,4-Dichlorobenzene	19.16	146	58703	0.94	ppbv		99
62)	Benzyl chloride	19.37	91	31257	0.76	ppbv	#	96
63)	1,2-Dichlorobenzene	19.82	146	51403	0.91	ppbv		96
64)	1,2,4-Trichlorobenzene	23.05	180	22043	0.68	ppbv	#	61
65)	Hexachlorobutadiene	23.24	225	48029	0.85	ppbv		96
66)	Naphthalene	23.76	128	25347	0.65	ppbv	#	78

(#) = qualifier out of range (m) = manual integration
04061128.D 031611V1.M Thu Apr 14 13:24:21 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061128.D Vial: 2
Acq On : 7 Apr 2011 10:15 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 10:40 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Injection Log

Directory: C:\HPCHEM\1\DATA\031711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03171101.d	1.	BFB 50cc voa020211c	4/14/11 icalEPA_TO15	17 Mar2011 09:24
2	2	03171102.d	1.	TO15 L1 18cc voa092310d – NOT used MTCH	ICAL EPA_TO15	17 Mar2011 10:04
3	2	03171103.d	1.	TO15 L2 38cc voa092310d	ICAL EPA_TO15	17 Mar2011 10:45
4	1	03171104.d	1.	TO15 L3 20cc voa101910d	ICAL EPA_TO15	17 Mar2011 11:26
5	1	03171105.d	1.	TO15 L4 40cc voa101910d	ICAL EPA_TO15	17 Mar2011 12:07
6	1	03171106.d	1.	TO15 L5 48cc voa101910d	ICAL EPA_TO15	17 Mar2011 12:47
7	1	03171107.d	1.	TO15 L6 60cc voa101910d	ICAL EPA_TO15	17 Mar2011 13:27
8	1	03171108.d	1.	TO15 L7 80cc voa101910d	ICAL EPA_TO15	17 Mar2011 14:08
9	1	03171109.d	1.	BFB 50cc voa020211c	icalEPA_TO15	17 Mar2011 14:49
10	1	03171110.d	1.	TO15 CCV 40cc voa010711a	CCV EPA_TO15	17 Mar2011 15:29
11	2	03171112.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15	17 Mar2011 16:59
12	3	03171113.d	1.	APH CCV 150cc voa020211b > NA MTCH	RLVS EPA_TO15	17 Mar2011 17:40
13	4	03171114.d	1.	APH RLVS 20cc voa020211a	RLVS EPA_TO15	17 Mar2011 18:20
14	1	03171115.d	1.	MBLK	MBLK EPA_TO15-ug/m3	17 Mar2011 19:04
15	3	03171116.d	2.	1103120-001A	SAMP EPA_TO15-ug/m3	17 Mar2011 19:47
16	4	03171117.d	2.	1103120-004A	SAMP EPA_TO15-ug/m3	17 Mar2011 20:31
17	6	03171118.d	2.	1103120-005A	SAMP EPA_TO15-ug/m3	17 Mar2011 21:15
18	7	03171119.d	2.	1103120-006A	SAMP EPA_TO15-ug/m3	17 Mar2011 21:58
19	8	03171120.d	2.	1103120-007A	SAMP EPA_TO15-ug/m3	17 Mar2011 22:42
20	9	03171121.d	2.	1103120-008A	SAMP EPA_TO15-ug/m3	17 Mar2011 23:26
21	10	03171122.d	2.	1103120-010A	SAMP EPA_TO15-ug/m3	18 Mar2011 00:10
22	11	03171123.d	2.	1103120-011A	SAMP EPA_TO15-ug/m3	18 Mar2011 00:53
23	12	03171124.d	2.	1103120-012A	SAMP EPA_TO15-ug/m3	18 Mar2011 01:36
24	13	03171125.d	2.	1103120-014A	SAMP EPA_TO15-ug/m3	18 Mar2011 02:20
25	14	03171126.d	40000.	1103120-013A	SAMP EPA_TO15-ug/m3	18 Mar2011 03:00
26	14	03171127.d	40000.	1103120-013ADUP	DUP EPA_TO15-ug/m3	18 Mar2011 03:41
27	15	03171128.d	80000.	1103120-002A	SAMP EPA_TO15-ug/m3	18 Mar2011 04:22
28	16	03171129.d	80000.	1103120-003A	SAMP EPA_TO15-ug/m3	18 Mar2011 05:03
29	1	03171130.d	80000.	1103120-009A	SAMP EPA_TO15-ug/m3	18 Mar2011 08:38
30	1	03171131.d	80000.	1103120-015A – DATA NOT used MTCH	SAMP EPA_TO15-ug/m3	18 Mar2011 09:19
31	4	03171132.d	40.	1103120-004A	SAMP EPA_TO15-ug/m3	18 Mar2011 10:00
32	6	03171133.d	40.	1103120-005A	SAMP EPA_TO15-ug/m3	18 Mar2011 10:40
33	7	03171134.d	40.	1103120-006A	SAMP EPA_TO15-ug/m3	18 Mar2011 11:21
34	8	03171135.d	40.	1103120-007A	SAMP EPA_TO15-ug/m3	18 Mar2011 12:01
35	9	03171136.d	40.	1103120-008A	SAMP EPA_TO15-ug/m3	18 Mar2011 12:42
36	10	03171137.d	40.	1103120-010A	SAMP EPA_TO15-ug/m3	18 Mar2011 13:23
37	2	03171138.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15	18 Mar2011 14:04
38	4	03171139.d	1.	APH RLVS 20cc voa020211a	RLVS EPA_TO15	18 Mar2011 14:45
39	1	03171140.d	1.	BFB 50cc voa020211c	icalEPA_TO15	18 Mar2011 16:39
40	2	03171141.d	1.	TO15 CCV 40cc voa010711a	CCV EPA_TO15	18 Mar2011 17:20
41	3	03171142.d	1.	APH CCV 150cc voa020211b	RLVS EPA_TO15	18 Mar2011 18:02
42	1	03171143.d	1.	MBLK	MBLK EPA_TO15-ug/m3	18 Mar2011 18:48
43	11	03171144.d	40.	1103120-011A	SAMP EPA_TO15-ug/m3	18 Mar2011 19:29
44	12	03171145.d	40.	1103120-012A	SAMP EPA_TO15-ug/m3	18 Mar2011 20:09
45	13	03171146.d	40.	1103120-014A	SAMP EPA_TO15-ug/m3	18 Mar2011 20:50
46	14	03171147.d	16000.	1103120-015A	SAMP EPA_TO15-ug/m3	18 Mar2011 21:31
47	15	03171148.d	16000.	1103120-015ADUP	DUP EPA_TO15-ug/m3	18 Mar2011 22:12
48	2	03171149.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15	18 Mar2011 22:53
49	4	03171150.d	1.	APH RLVS 20cc voa020211a	RLVS EPA_TO15	18 Mar2011 23:34

RLVS DATA used

NOT used MTCH

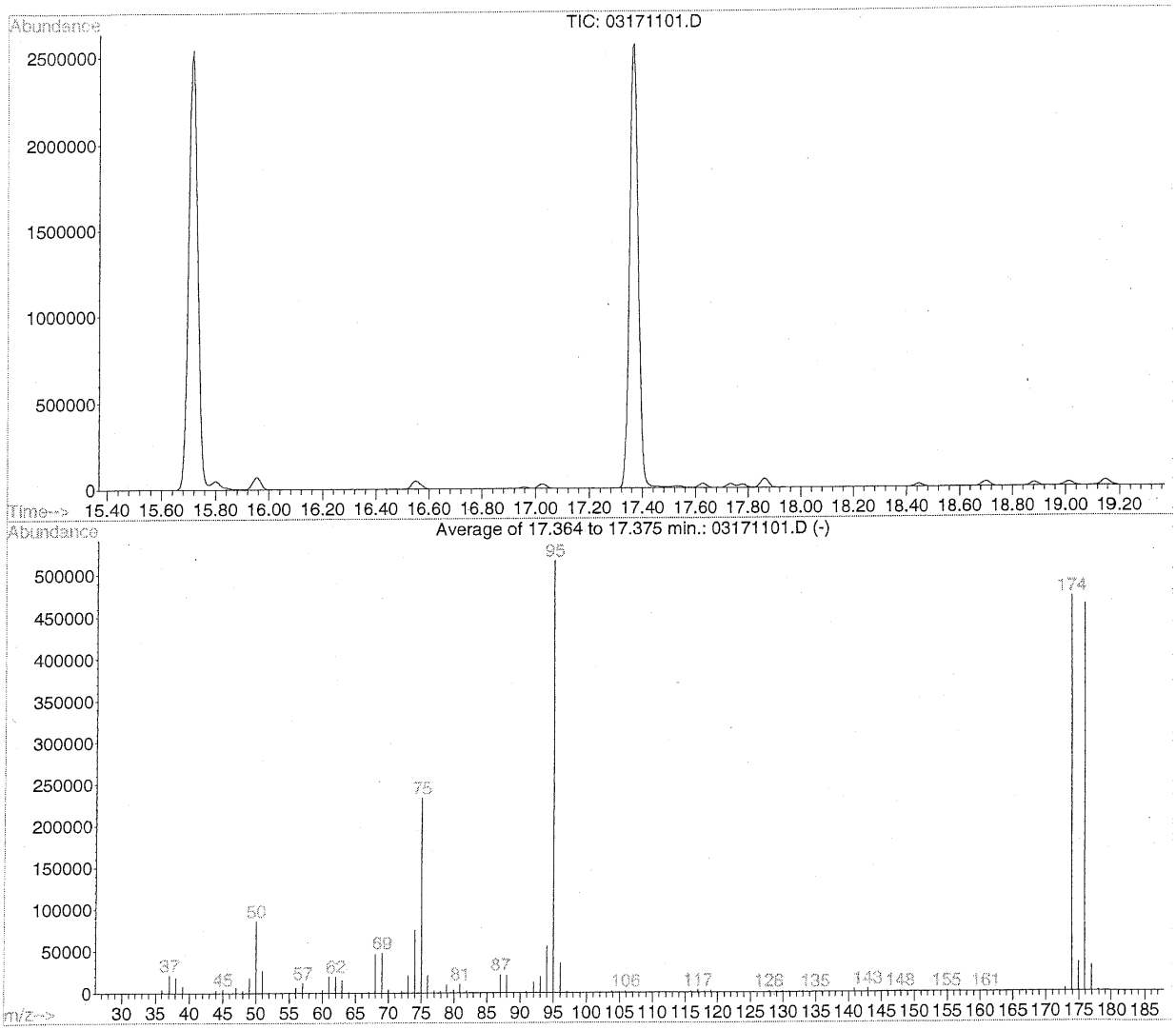
DATA NOT used MTCH

DATA NOT used MTCH

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\031711\03171101.D
Acq On : 17 Mar 2011 9:24 am
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Average of 17.364 to 17.375 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	85421	PASS
75	95	30	60	45.2	232619	PASS
95	95	100	100	100.0	515200	PASS
96	95	5	9	6.8	35024	PASS
173	174	0.00	2	0.6	3042	PASS
174	95	50	120	91.4	471040	PASS
175	174	4	9	7.2	34096	PASS
176	174	93	101	98.0	461589	PASS
177	176	5	9	6.6	30531	PASS

03171101.D 031611V1.M Wed Apr 13 18:43:23 2011

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

Calibration Files
2 =03171103.D 3 =03171104.D 4 =03171105.D
5 =03171106.D 6 =03171107.D 7 =03171108.D

		Compound	2	3	4	5	6	7	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene	1.121	1.030	0.881	0.877	0.859	0.855	0.937	11.89
3)	T	Dichlorodifluoromet	3.711	3.422	2.907	2.872	2.809	2.758	3.080	12.71
4)	T	1,2-Dichloro-1,2,2,	2.740	2.506	2.140	2.098	2.063	2.049	2.266	12.71
5)	T	Chloromethane	1.354	1.187	0.993	0.967	0.944	0.923	1.061	16.21
6)	T	Vinyl chloride	1.493	1.422	1.169	1.100	1.036	0.987	1.201	17.40
7)	T	1,3-Butadiene	1.273	1.081	0.900	0.879	0.821	0.718	0.945	21.13
8)	T	Bromomethane	1.270	1.215	1.045	1.028	1.019	1.023	1.100	10.20
9)	T	Chloroethane	0.751	0.701	0.606	0.598	0.593	0.589	0.640	10.76
10)	T	Trichlorofluorometh	3.571	3.235	2.778	2.748	2.684	2.618	2.939	12.89
11)	T	Ethanol	0.215	0.268	0.189	0.186	0.200	0.189	0.208	15.16
12)	T	Freon113	2.847	2.556	2.264	2.235	2.160	2.104	2.361	12.07
13)	T	1,1-Dichloroethene	2.101	1.903	1.652	1.613	1.570	1.546	1.731	12.85
14)	T	Acetone	2.101	1.801	1.364	1.315	1.379	1.284	1.541	21.64
15)	T	Carbon disulfide	3.688	3.383	2.913	2.902	2.820	2.818	3.087	11.74
16)	T	2-Propanol	1.043	1.434	1.036	1.025	1.086	1.031	1.109	14.48
17)	T	Methylene chloride	1.613	1.366	1.173	1.158	1.131	1.112	1.259	15.58
18)	T	tert-Butyl Methyl E	4.240	3.186	2.506	2.381	2.499	2.337	2.858	26.04
19)	T	trans-1,2-Dichloroe	1.970	1.777	1.552	1.527	1.484	1.469	1.630	12.30
20)	T	n-Hexane	2.384	1.953	1.715	1.683	1.633	1.584	1.825	16.54
21)	T	1,1-Dichloroethane	2.480	2.162	1.892	1.868	1.834	1.793	2.005	13.31
22)	T	Vinyl acetate	2.792	2.282	1.841	1.759	1.867	1.764	2.051	20.08
23)	T	cis-1,2-Dichloroeth	1.385	1.245	1.080	1.061	1.069	1.038	1.146	12.10
24)	T	2-Butanone	2.022	1.894	1.361	1.373	1.467	1.420	1.589	18.30
25)	T	Ethyl acetate	2.379	2.359	1.740	1.752	1.894	1.770	1.982	15.36
26)	T	Tetrahydrofuran	1.236	1.255	0.963	0.922	0.968	0.907	1.042	15.33
27)	T	Chloroform	2.813	2.449	2.047	1.953	1.959	1.850	2.179	17.17
28)	T	1,1,1-Trichloroetha	2.831	2.528	2.132	2.058	2.043	1.915	2.251	15.65
29)	T	Cyclohexane	2.465	2.008	1.739	1.686	1.642	1.551	1.848	18.35
30)	T	Carbon tetrachlorid	2.776	2.488	2.142	2.068	2.077	1.972	2.254	13.82
31)	T	Benzene	4.394	3.373	2.763	2.670	2.755	2.586	3.090	22.56
32)	T	1,2-Dichloroethane	1.684	1.406	1.139	1.090	1.110	1.038	1.244	20.16
33)	I	1,4-Difluorobenzene	----------ISTD----------							
34)	T	Heptane	0.807	0.696	0.561	0.534	0.533	0.492	0.604	20.18
35)	T	Trichloroethene	0.551	0.477	0.392	0.381	0.390	0.366	0.426	17.03
36)	T	1,2-Dichloropropane	0.394	0.338	0.274	0.260	0.278	0.261	0.301	17.93
37)	T	1,4-Dioxane	0.127	0.141	0.110	0.107	0.121	0.112	0.120	10.77
38)	T	Bromodichloromethan	0.741	0.669	0.547	0.525	0.541	0.512	0.589	15.84
39)	T	cis-1,3-Dichloropro	0.576	0.529	0.423	0.409	0.429	0.410	0.463	15.41
40)	T	4-Methyl-2-pentanon	0.138	0.172	0.128	0.123	0.137	0.129	0.138	12.96
41)	T	Toluene	1.337	1.065	0.834	0.792	0.839	0.784	0.942	23.30
42)	T	trans-1,3-Dichlorop	0.467	0.437	0.350	0.339	0.359	0.346	0.383	14.29
43)	T	1,1,2-Trichloroetha	0.391	0.349	0.279	0.266	0.284	0.273	0.307	16.63
44)	T	Tetrachloroethene	0.674	0.601	0.483	0.463	0.465	0.447	0.522	17.77
45)	T	2-Hexanone	0.134	0.259	0.201	0.193	0.218	0.204	0.201	20.24
46)	T	Chlorodibromomethan	0.633	0.585	0.477	0.454	0.483	0.457	0.515	14.65
47)	T	1,2-Dibromoethane	0.562	0.511	0.410	0.391	0.416	0.393	0.447	16.02
48)	I	Chlorobenzene-d5	----------ISTD----------							
49)	T	Chlorobenzene	1.170	0.999	0.798	0.755	0.798	0.754	0.879	19.26
50)	T	Ethylbenzene	2.162	1.646	1.279	1.203	1.262	1.167	1.453	26.67
51)	T	m,p-Xylene	1.635	1.315	1.014	0.945	0.971	0.871	1.125	26.04
52)	T	o-Xylene	1.582	1.249	0.975	0.914	0.968	0.887	1.096	24.73
53)	T	Styrene	0.960	0.862	0.687	0.650	0.700	0.654	0.752	17.07
54)	T	Bromoform	0.811	0.732	0.581	0.545	0.578	0.536	0.631	17.97
55)	S	4-Bromofluorobenzen	0.619	0.631	0.629	0.619	0.630	0.631	0.627	0.94

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

Calibration Files
2 =03171103.D 3 =03171104.D 4 =03171105.D
5 =03171106.D 6 =03171107.D 7 =03171108.D

		Compound	2	3	4	5	6	7	Avg	%RSD
56)	T	1,1,2,2-Tetrachloro	0.770	0.723	0.570	0.537	0.579	0.549	0.621	15.96
57)	T	4-Ethyltoluene	1.921	1.498	1.141	1.071	1.155	1.071	1.309	25.92
58)	T	1,3,5-Trimethylbenz	1.655	1.229	0.935	0.869	0.927	0.866	1.080	28.91
59)	T	1,2,4-Trimethylbenz	1.300	1.116	0.863	0.814	0.873	0.822	0.965	20.59
60)	T	1,3-Dichlorobenzene	0.912	0.786	0.602	0.567	0.600	0.561	0.671	21.51
61)	T	1,4-Dichlorobenzene	0.849	0.755	0.582	0.549	0.579	0.536	0.642	20.07
62)	T	Benzyl chloride	0.537	0.464	0.376	0.361	0.403	0.378	0.420	16.18
63)	T	1,2-Dichlorobenzene	0.784	0.685	0.515	0.490	0.517	0.487	0.580	21.50
64)	T	1,2,4-Trichlorobenz	0.229	0.381	0.325	0.325	0.376	0.347	0.330	16.70
65)	T	Hexachlorobutadiene	0.726	0.670	0.526	0.504	0.550	0.492	0.578	16.73
66)		Naphthalene	0.299	0.431	0.389	0.401	0.462	0.428	0.402	14.02

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171103.D Vial: 2
Acq On : 17 Mar 2011 10:45 am Operator: Michael Truchan
Sample : TO15 L2 38cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	719679	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2581759	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1755447	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1087127	12.36	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.88%				
Target Compounds							Qvalue
2) Propylene	5.67	41	65836	1.22	ppbv		99
3) Dichlorodifluoromethane	5.75	85	196590	1.11	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	149856	1.15	ppbv		95
5) Chloromethane	6.17	50	74063	1.21	ppbv		96
6) Vinyl chloride	6.38	62	80784	1.17	ppbv	#	99
7) 1,3-Butadiene	6.44	39	71823	1.32	ppbv		96
8) Bromomethane	7.01	94	68020	1.07	ppbv		98
9) Chloroethane	7.18	64	39762	1.08	ppbv		99
10) Trichlorofluoromethane	7.51	101	197377	1.17	ppbv		99
11) Ethanol	7.72	45	11378	0.95	ppbv	#	92
12) Freon113	8.16	101	160650	1.18	ppbv		98
13) 1,1-Dichloroethene	8.26	61	119766	1.20	ppbv		94
14) Acetone	8.36	43	120953	1.36	ppbv	#	96
15) Carbon disulfide	8.64	76	205942	1.16	ppbv	#	99
16) 2-Propanol	8.40	45	60634	0.95	ppbv	#	39
17) Methylene chloride	8.92	49	92889	1.28	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	241665	1.47	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	111137	1.18	ppbv		95
20) n-Hexane	9.39	57	138617	1.32	ppbv		95
21) 1,1-Dichloroethane	9.76	63	138520	1.20	ppbv		98
22) Vinyl acetate	9.70	43	159133	1.35	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	78136	1.18	ppbv		95
24) 2-Butanone	10.42	43	115245	1.26	ppbv		94
25) Ethyl acetate	10.37	43	134231	1.18	ppbv	#	99
26) Tetrahydrofuran	10.76	42	71169	1.19	ppbv		97
27) Chloroform	10.77	83	158728	1.27	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	156450	1.21	ppbv		98
29) Cyclohexane	11.03	56	139060	1.31	ppbv		94
30) Carbon tetrachloride	11.19	117	151819	1.17	ppbv		99
31) Benzene	11.47	78	242843	1.36	ppbv		99
32) 1,2-Dichloroethane	11.55	62	94039	1.31	ppbv		97
34) Heptane	11.52	43	165039	1.32	ppbv		95
35) Trichloroethene	12.20	130	109339	1.24	ppbv		99
36) 1,2-Dichloropropane	12.56	63	79730	1.28	ppbv		98
37) 1,4-Dioxane	12.63	88	25220	1.02	ppbv		99
38) Bromodichloromethane	12.84	83	146923	1.21	ppbv		98
39) cis-1,3-Dichloropropene	13.39	75	113013	1.18	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	28437	1.00	ppbv		98
41) Toluene	13.80	91	270670	1.39	ppbv		98
42) trans-1,3-Dichloropropene	14.11	75	87864	1.11	ppbv		97
43) 1,1,2-Trichloroethane	14.37	97	79184	1.25	ppbv		98
44) Tetrachloroethene	14.51	166	133604	1.24	ppbv		98
45) 2-Hexanone	14.59	43	27057	0.65	ppbv		98
46) Chlorodibromomethane	14.93	129	128117	1.21	ppbv		99
47) 1,2-Dibromoethane	15.16	107	111416	1.21	ppbv		100
49) Chlorobenzene	15.76	112	162644	1.32	ppbv	#	88
50) Ethylbenzene	15.80	91	297584	1.46	ppbv		93

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171103.D Vial: 2
Acq On : 17 Mar 2011 10:45 am Operator: Michael Truchan
Sample : TO15 L2 38cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

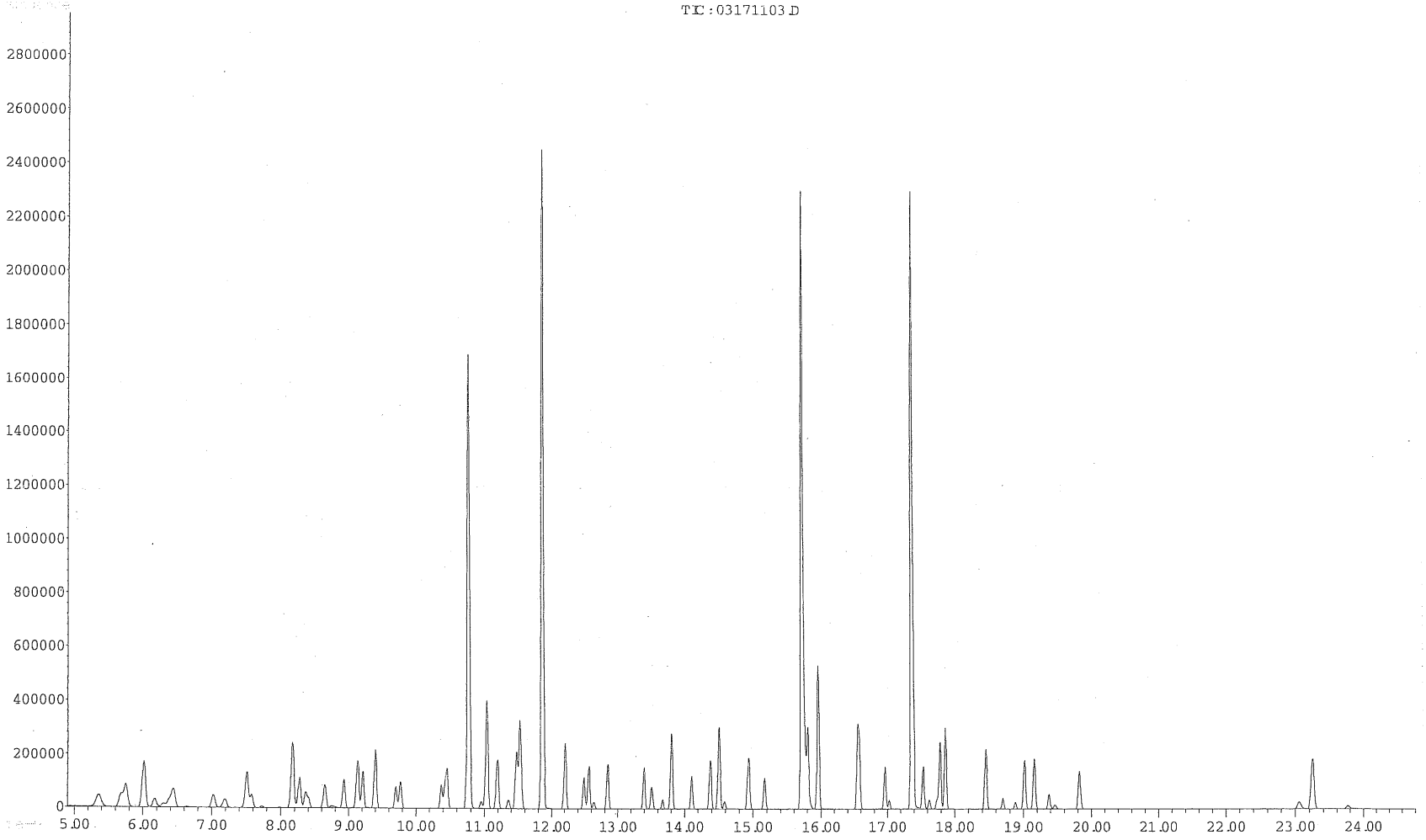
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	440951	2.79	ppbv		94
52)	o-Xylene	16.55	91	222128	1.44	ppbv		97
53)	Styrene	16.57	104	132105	1.25	ppbv		97
54)	Bromoform	16.96	173	109330	1.23	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	108134	1.24	ppbv		99
57)	4-Ethyltoluene	17.78	105	264403	1.44	ppbv		98
58)	1,3,5-Trimethylbenzene	17.86	105	225406	1.49	ppbv		94
59)	1,2,4-Trimethylbenzene	18.45	105	178968	1.32	ppbv		100
60)	1,3-Dichlorobenzene	19.01	146	124263	1.32	ppbv		97
61)	1,4-Dichlorobenzene	19.16	146	114482	1.27	ppbv		98
62)	Benzyl chloride	19.37	91	73142	1.24	ppbv		98
63)	1,2-Dichlorobenzene	19.82	146	106861	1.31	ppbv		97
64)	1,2,4-Trichlorobenzene	23.05	180	29245	0.63	ppbv		97
65)	Hexachlorobutadiene	23.24	225	95846	1.18	ppbv		98
66)	Naphthalene	23.77	128	38688	0.69	ppbv	#	84

(#) = qualifier out of range (m) = manual integration
03171103.D 031611V1.M Wed Apr 13 10:11:50 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171103.D Vial: 2
Acq On : 17 Mar 2011 10:45 am Operator: Michael Truchan
Sample : TO15 L2 38cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 11:26 am Operator: Michael Truchan
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	750328	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2628904	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1829920	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1154500	12.59	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.72%				
Target Compounds							Qvalue
2) Propylene	5.68	41	315167	5.60	ppbv		99
3) Dichlorodifluoromethane	5.75	85	944903	5.11	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	714431	5.25	ppbv		95
5) Chloromethane	6.17	50	338575	5.31	ppbv		99
6) Vinyl chloride	6.38	62	401202	5.57	ppbv		100
7) 1,3-Butadiene	6.44	39	317949	5.60	ppbv		98
8) Bromomethane	7.02	94	339071	5.14	ppbv		99
9) Chloroethane	7.17	64	193644	5.04	ppbv		99
10) Trichlorofluoromethane	7.51	101	932049	5.28	ppbv		99
11) Ethanol	7.73	45	74060	5.94	ppbv		99
12) Freon113	8.17	101	751777	5.30	ppbv		97
13) 1,1-Dichloroethene	8.27	61	565436	5.44	ppbv		96
14) Acetone	8.36	43	540405	5.84	ppbv		99
15) Carbon disulfide	8.64	76	984933	5.31	ppbv	#	99
16) 2-Propanol	8.40	45	434732	6.53	ppbv		98
17) Methylene chloride	8.93	49	409838	5.42	ppbv		93
18) tert-Butyl Methyl Ether	9.12	73	946664	5.52	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	522730	5.34	ppbv		94
20) n-Hexane	9.40	57	591958	5.40	ppbv		97
21) 1,1-Dichloroethane	9.77	63	629393	5.23	ppbv		99
22) Vinyl acetate	9.70	43	677982	5.51	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	366291	5.32	ppbv		95
24) 2-Butanone	10.42	43	562800	5.90	ppbv		95
25) Ethyl acetate	10.37	43	693752	5.83	ppbv	#	100
26) Tetrahydrofuran	10.76	42	376702	6.02	ppbv		97
27) Chloroform	10.77	83	720193	5.51	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	728269	5.39	ppbv		99
29) Cyclohexane	11.03	56	590545	5.32	ppbv		96
30) Carbon tetrachloride	11.19	117	709514	5.24	ppbv		99
31) Benzene	11.47	78	971876	5.24	ppbv		99
32) 1,2-Dichloroethane	11.55	62	409244	5.48	ppbv		99
34) Heptane	11.52	43	724514	5.71	ppbv		95
35) Trichloroethene	12.20	130	481041	5.37	ppbv		98
36) 1,2-Dichloropropane	12.56	63	348229	5.50	ppbv		100
37) 1,4-Dioxane	12.63	88	142808	5.67	ppbv		99
38) Bromodichloromethane	12.84	83	675085	5.45	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	528218	5.43	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	180875	6.25	ppbv		98
41) Toluene	13.80	91	1097954	5.54	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	417786	5.19	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	359186	5.57	ppbv		99
44) Tetrachloroethene	14.51	166	606310	5.52	ppbv		99
45) 2-Hexanone	14.58	43	267327	6.31	ppbv		99
46) Chlorodibromomethane	14.93	129	602712	5.57	ppbv		99
47) 1,2-Dibromoethane	15.17	107	515861	5.48	ppbv		99
49) Chlorobenzene	15.76	112	723755	5.63	ppbv	#	95
50) Ethylbenzene	15.80	91	1180483	5.55	ppbv		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 11:26 am Operator: Michael Truchan
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

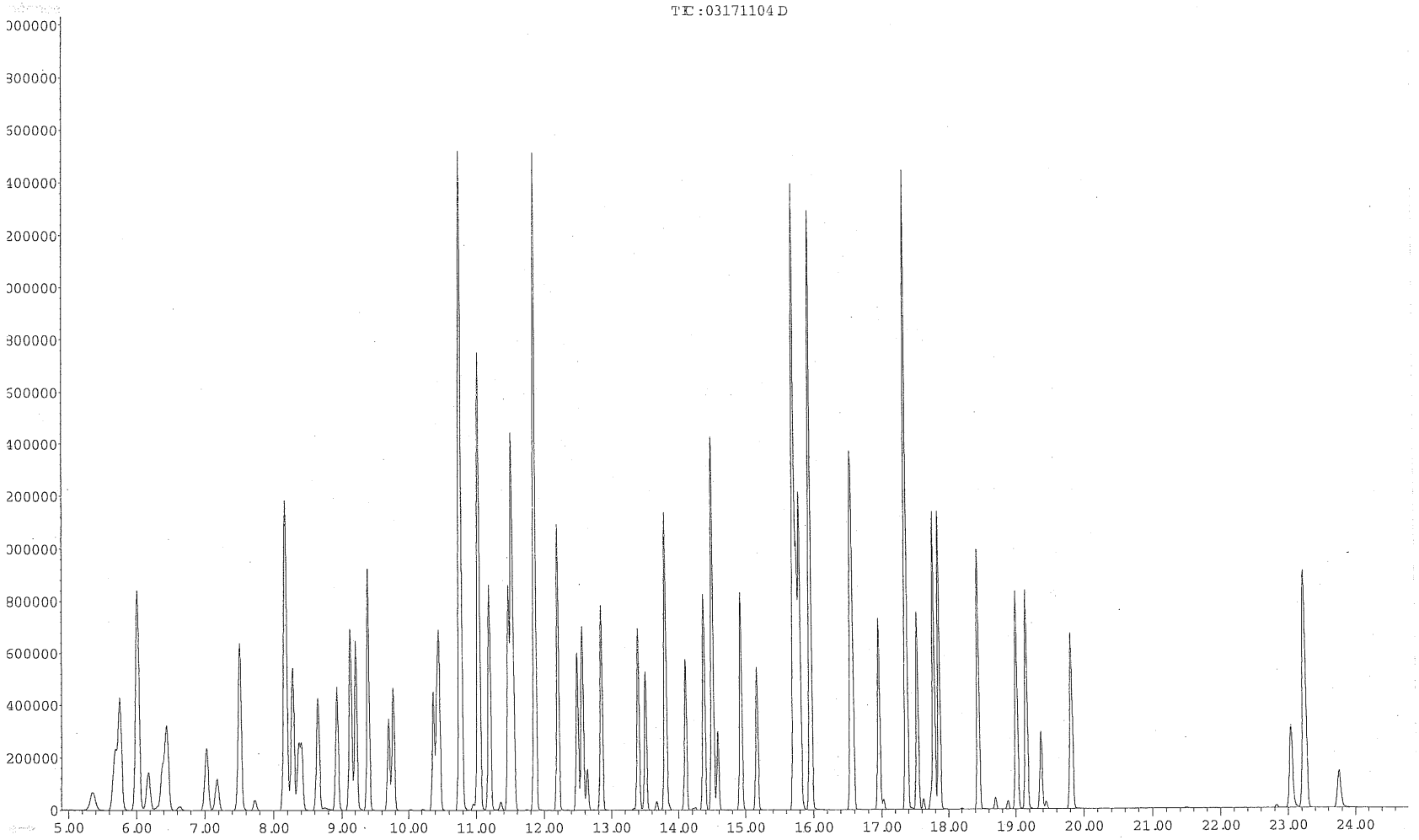
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	1847933	11.22	ppbv	95
52) o-Xylene	16.55	91	914451	5.70	ppbv	97
53) Styrene	16.57	104	618596	5.62	ppbv	98
54) Bromoform	16.96	173	514343	5.57	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	528920	5.82	ppbv	98
57) 4-Ethyltoluene	17.78	105	1074807	5.61	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	872370	5.52	ppbv	97
59) 1,2,4-Trimethylbenzene	18.45	105	800229	5.67	ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	557937	5.68	ppbv	98
61) 1,4-Dichlorobenzene	19.16	146	530226	5.64	ppbv	99
62) Benzyl chloride	19.37	91	329707	5.36	ppbv	99
63) 1,2-Dichlorobenzene	19.82	146	486032	5.73	ppbv	98
64) 1,2,4-Trichlorobenzene	23.04	180	253661	5.24	ppbv	98
65) Hexachlorobutadiene	23.24	225	461069	5.45	ppbv	99
66) Naphthalene	23.75	128	290181	4.93	ppbv	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 11:26 am Operator: Michael Truchan
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171105.D Vial: 1
Acq On : 17 Mar 2011 12:07 pm Operator: Michael Truchan
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	761809	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2701895	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1886138	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1186383	12.55	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.40%				
Target Compounds							Qvalue
2) Propylene	5.68	41	547587	9.59	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1630034	8.68	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1239119	8.97	ppbv		95
5) Chloromethane	6.17	50	575179	8.89	ppbv		99
6) Vinyl chloride	6.38	62	669419	9.15	ppbv		100
7) 1,3-Butadiene	6.44	39	537271	9.33	ppbv		99
8) Bromomethane	7.02	94	592339	8.84	ppbv		99
9) Chloroethane	7.17	64	339537	8.71	ppbv		99
10) Trichlorofluoromethane	7.51	101	1625260	9.07	ppbv		99
11) Ethanol	7.73	45	105743	8.35	ppbv		99
12) Freon113	8.16	101	1352179	9.40	ppbv		97
13) 1,1-Dichloroethene	8.27	61	996578	9.45	ppbv		95
14) Acetone	8.35	43	831373	8.86	ppbv		99
15) Carbon disulfide	8.64	76	1722183	9.15	ppbv	#	99
16) 2-Propanol	8.40	45	637527	9.43	ppbv		97
17) Methylene chloride	8.92	49	715151	9.32	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	1511902	8.68	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	926685	9.33	ppbv		95
20) n-Hexane	9.39	57	1055941	9.49	ppbv		98
21) 1,1-Dichloroethane	9.77	63	1118495	9.15	ppbv		99
22) Vinyl acetate	9.70	43	1110991	8.89	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	644780	9.23	ppbv		96
24) 2-Butanone	10.42	43	820950	8.48	ppbv		98
25) Ethyl acetate	10.37	43	1039385	8.60	ppbv	#	99
26) Tetrahydrofuran	10.76	42	586606	9.24	ppbv		97
27) Chloroform	10.77	83	1222783	9.21	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1247271	9.09	ppbv		99
29) Cyclohexane	11.04	56	1038420	9.22	ppbv		97
30) Carbon tetrachloride	11.19	117	1240134	9.03	ppbv		99
31) Benzene	11.47	78	1616313	8.58	ppbv		99
32) 1,2-Dichloroethane	11.54	62	673400	8.88	ppbv		99
34) Heptane	11.52	43	1200216	9.20	ppbv		97
35) Trichloroethene	12.20	130	813955	8.84	ppbv		98
36) 1,2-Dichloropropane	12.56	63	581416	8.94	ppbv		100
37) 1,4-Dioxane	12.63	88	227952	8.80	ppbv		98
38) Bromodichloromethane	12.84	83	1134765	8.91	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	869291	8.69	ppbv		98
40) 4-Methyl-2-pentanone	13.50	58	275671	9.27	ppbv		98
41) Toluene	13.80	91	1767585	8.68	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	688644	8.32	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	590718	8.91	ppbv		98
44) Tetrachloroethene	14.50	166	1003018	8.89	ppbv		100
45) 2-Hexanone	14.58	43	425318	9.77	ppbv		98
46) Chlorodibromomethane	14.93	129	1010876	9.09	ppbv		100
47) 1,2-Dibromoethane	15.16	107	851354	8.81	ppbv		98
49) Chlorobenzene	15.76	112	1192798	8.99	ppbv		96
50) Ethylbenzene	15.80	91	1891165	8.62	ppbv		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171105.D Vial: 1
Acq On : 17 Mar 2011 12:07 pm Operator: Michael Truchan
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

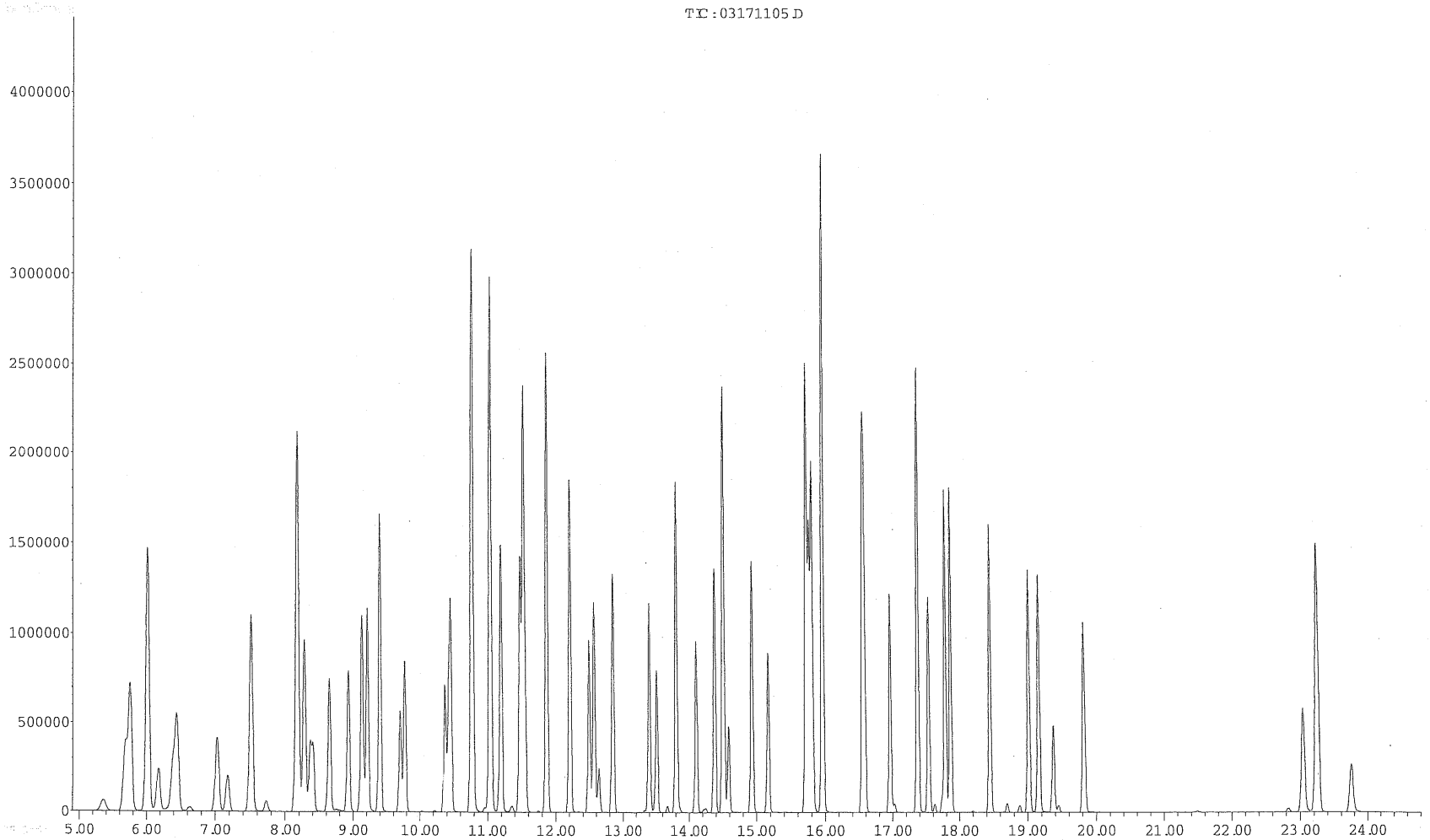
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	m,p-Xylene	15.96	91	2938536	17.31	ppbv	97
52)	o-Xylene	16.55	91	1470572	8.89	ppbv	97
53)	Styrene	16.57	104	1016002	8.95	ppbv	99
54)	Bromoform	16.96	173	841378	8.84	ppbv	99
56)	1,1,2,2-Tetrachloroethane	17.53	83	859455	9.17	ppbv	98
57)	4-Ethyltoluene	17.78	105	1687177	8.54	ppbv	98
58)	1,3,5-Trimethylbenzene	17.86	105	1369110	8.40	ppbv	98
59)	1,2,4-Trimethylbenzene	18.45	105	1276666	8.77	ppbv	98
60)	1,3-Dichlorobenzene	19.01	146	880856	8.70	ppbv	99
61)	1,4-Dichlorobenzene	19.16	146	843762	8.71	ppbv	100
62)	Benzyl chloride	19.37	91	549671	8.67	ppbv	99
63)	1,2-Dichlorobenzene	19.81	146	754425	8.63	ppbv	99
64)	1,2,4-Trichlorobenzene	23.04	180	446787	8.96	ppbv	97
65)	Hexachlorobutadiene	23.24	225	746486	8.56	ppbv	99
66)	Naphthalene	23.75	128	539735	8.90	ppbv	100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171105.D Vial: 1
Acq On : 17 Mar 2011 12:07 pm Operator: Michael Truchan
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171106.D Vial: 1
Acq On : 17 Mar 2011 12:47 pm Operator: Michael Truchan
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	761450	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2701361	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1897863	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1174064	12.34	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.72%				
Target Compounds							Qvalue
2) Propylene	5.68	41	651537	11.41	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1924626	10.26	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1456960	10.56	ppbv		95
5) Chloromethane	6.17	50	671712	10.39	ppbv		99
6) Vinyl chloride	6.38	62	757034	10.35	ppbv		99
7) 1,3-Butadiene	6.44	39	631525	10.97	ppbv		99
8) Bromomethane	7.02	94	701531	10.47	ppbv		99
9) Chloroethane	7.17	64	400833	10.29	ppbv		99
10) Trichlorofluoromethane	7.50	101	1925124	10.75	ppbv		99
11) Ethanol	7.73	45	124373	9.83	ppbv		99
12) Freon113	8.16	101	1606842	11.17	ppbv		97
13) 1,1-Dichloroethene	8.27	61	1169540	11.09	ppbv		96
14) Acetone	8.36	43	961219	10.24	ppbv		99
15) Carbon disulfide	8.64	76	2050425	10.90	ppbv	#	100
16) 2-Propanol	8.40	45	755799	11.19	ppbv	#	1
17) Methylene chloride	8.93	49	846574	11.04	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	1726080	9.91	ppbv		100
19) trans-1,2-Dichloroethene	9.21	61	1097754	11.06	ppbv		95
20) n-Hexane	9.40	57	1240312	11.15	ppbv		99
21) 1,1-Dichloroethane	9.77	63	1320236	10.81	ppbv		100
22) Vinyl acetate	9.70	43	1275066	10.21	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	762853	10.92	ppbv		96
24) 2-Butanone	10.42	43	994976	10.28	ppbv		96
25) Ethyl acetate	10.37	43	1259569	10.43	ppbv	#	100
26) Tetrahydrofuran	10.76	42	673837	10.62	ppbv		98
27) Chloroform	10.77	83	1403783	10.58	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1441381	10.51	ppbv		99
29) Cyclohexane	11.04	56	1211615	10.76	ppbv		97
30) Carbon tetrachloride	11.19	117	1435774	10.46	ppbv		100
31) Benzene	11.47	78	1870676	9.94	ppbv		99
32) 1,2-Dichloroethane	11.55	62	770574	10.17	ppbv		99
34) Heptane	11.52	43	1373349	10.53	ppbv		97
35) Trichloroethene	12.20	130	946290	10.27	ppbv		98
36) 1,2-Dichloropropane	12.56	63	662600	10.19	ppbv		100
37) 1,4-Dioxane	12.63	88	267108	10.32	ppbv		98
38) Bromodichloromethane	12.84	83	1305267	10.25	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1008315	10.08	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	317760	10.69	ppbv		98
41) Toluene	13.80	91	2019751	9.92	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	798165	9.64	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	677347	10.22	ppbv		98
44) Tetrachloroethene	14.50	166	1151110	10.20	ppbv		100
45) 2-Hexanone	14.59	43	492186	11.31	ppbv		99
46) Chlorodibromomethane	14.93	129	1156598	10.40	ppbv		100
47) 1,2-Dibromoethane	15.17	107	971173	10.05	ppbv		99
49) Chlorobenzene	15.76	112	1363855	10.22	ppbv		97
50) Ethylbenzene	15.80	91	2155720	9.77	ppbv		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171106.D Vial: 1
Acq On : 17 Mar 2011 12:47 pm Operator: Michael Truchan
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

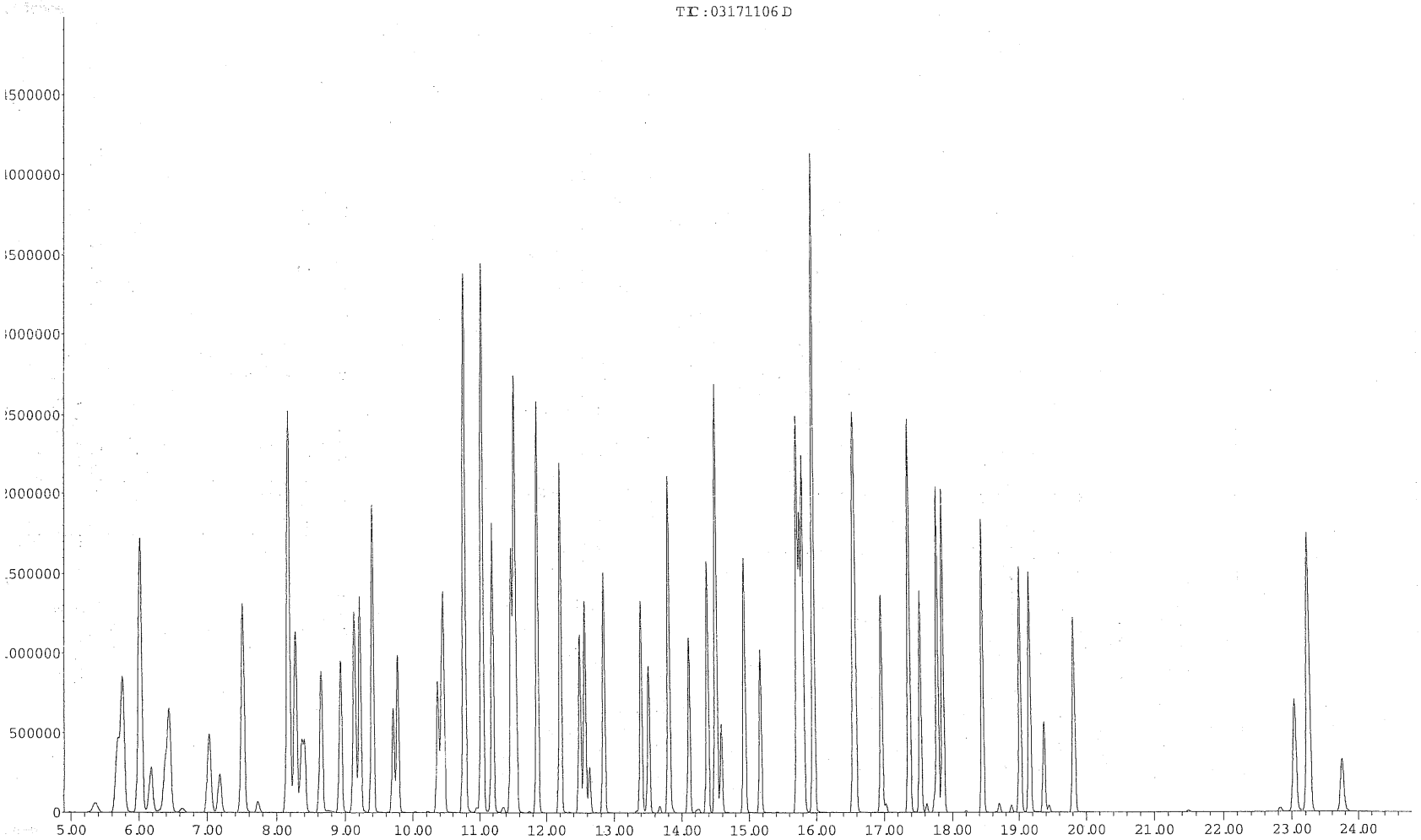
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	3298530	19.31	ppbv	97
52) o-Xylene	16.55	91	1665348	10.01	ppbv	97
53) Styrene	16.57	104	1164473	10.20	ppbv	99
54) Bromoform	16.96	173	951983	9.94	ppbv	100
56) 1,1,2,2-Tetrachloroethane	17.53	83	979088	10.38	ppbv	99
57) 4-Ethyltoluene	17.78	105	1918171	9.65	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	1529707	9.33	ppbv	98
59) 1,2,4-Trimethylbenzene	18.45	105	1458140	9.96	ppbv	99
60) 1,3-Dichlorobenzene	19.01	146	998351	9.80	ppbv	100
61) 1,4-Dichlorobenzene	19.16	146	958544	9.84	ppbv	99
62) Benzyl chloride	19.37	91	636604	9.98	ppbv	99
63) 1,2-Dichlorobenzene	19.82	146	862999	9.81	ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	538217	10.73	ppbv	98
65) Hexachlorobutadiene	23.24	225	864097	9.85	ppbv	99
66) Naphthalene	23.75	128	669793	10.98	ppbv	100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171106.D Vial: 1
Acq On : 17 Mar 2011 12:47 pm Operator: Michael Truchan
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171107.D Vial: 1
Acq On : 17 Mar 2011 1:27 pm Operator: Michael Truchan
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	745538	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2647543	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1875991	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1181628	12.57	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.56%				
Target Compounds							Qvalue
2) Propylene	5.69	41	783608	14.02	ppbv		99
3) Dichlorodifluoromethane	5.76	85	2312397	12.59	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1759629	13.02	ppbv		94
5) Chloromethane	6.18	50	804997	12.72	ppbv		99
6) Vinyl chloride	6.39	62	870873	12.16	ppbv		100
7) 1,3-Butadiene	6.44	39	719827	12.77	ppbv		99
8) Bromomethane	7.02	94	850924	12.97	ppbv		99
9) Chloroethane	7.18	64	488395	12.80	ppbv		99
10) Trichlorofluoromethane	7.51	101	2304984	13.15	ppbv		100
11) Ethanol	7.73	45	164699	13.29	ppbv		100
12) Freon113	8.17	101	1893744	13.45	ppbv		97
13) 1,1-Dichloroethene	8.27	61	1394933	13.51	ppbv		96
14) Acetone	8.36	43	1233515	13.43	ppbv		99
15) Carbon disulfide	8.65	76	2455961	13.34	ppbv	#	100
16) 2-Propanol	8.40	45	984916	14.89	ppbv		99
17) Methylene chloride	8.93	49	1011826	13.48	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	2221183	13.03	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1301427	13.39	ppbv		96
20) n-Hexane	9.40	57	1480696	13.60	ppbv		99
21) 1,1-Dichloroethane	9.77	63	1597017	13.35	ppbv		99
22) Vinyl acetate	9.70	43	1659298	13.57	ppbv		99
23) cis-1,2-Dichloroethene	10.46	96	937425	13.71	ppbv		96
24) 2-Butanone	10.42	43	1303697	13.75	ppbv		96
25) Ethyl acetate	10.37	43	1660670	14.05	ppbv	#	100
26) Tetrahydrofuran	10.76	42	865592	13.93	ppbv		98
27) Chloroform	10.78	83	1717774	13.22	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1754853	13.07	ppbv		99
29) Cyclohexane	11.04	56	1439287	13.06	ppbv		98
30) Carbon tetrachloride	11.19	117	1771810	13.18	ppbv		99
31) Benzene	11.47	78	2366258	12.84	ppbv		99
32) 1,2-Dichloroethane	11.55	62	966268	13.02	ppbv		100
34) Heptane	11.52	43	1680537	13.14	ppbv		98
35) Trichloroethene	12.20	130	1189777	13.18	ppbv		98
36) 1,2-Dichloropropane	12.56	63	864281	13.57	ppbv		100
37) 1,4-Dioxane	12.64	88	368017	14.50	ppbv		99
38) Bromodichloromethane	12.84	83	1651363	13.23	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1300410	13.26	ppbv		99
40) 4-Methyl-2-pentanone	13.51	58	434654	14.92	ppbv		98
41) Toluene	13.80	91	2612567	13.09	ppbv		100
42) trans-1,3-Dichloropropene	14.11	75	1042874	12.85	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	883434	13.59	ppbv		98
44) Tetrachloroethene	14.50	166	1448170	13.09	ppbv		100
45) 2-Hexanone	14.58	43	679260	15.92	ppbv		99
46) Chlorodibromomethane	14.93	129	1503469	13.79	ppbv		100
47) 1,2-Dibromoethane	15.16	107	1270284	13.41	ppbv		99
49) Chlorobenzene	15.76	112	1783730	13.52	ppbv		98
50) Ethylbenzene	15.80	91	2784414	12.77	ppbv		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171107.D Vial: 1
Acq On : 17 Mar 2011 1:27 pm Operator: Michael Truchan
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

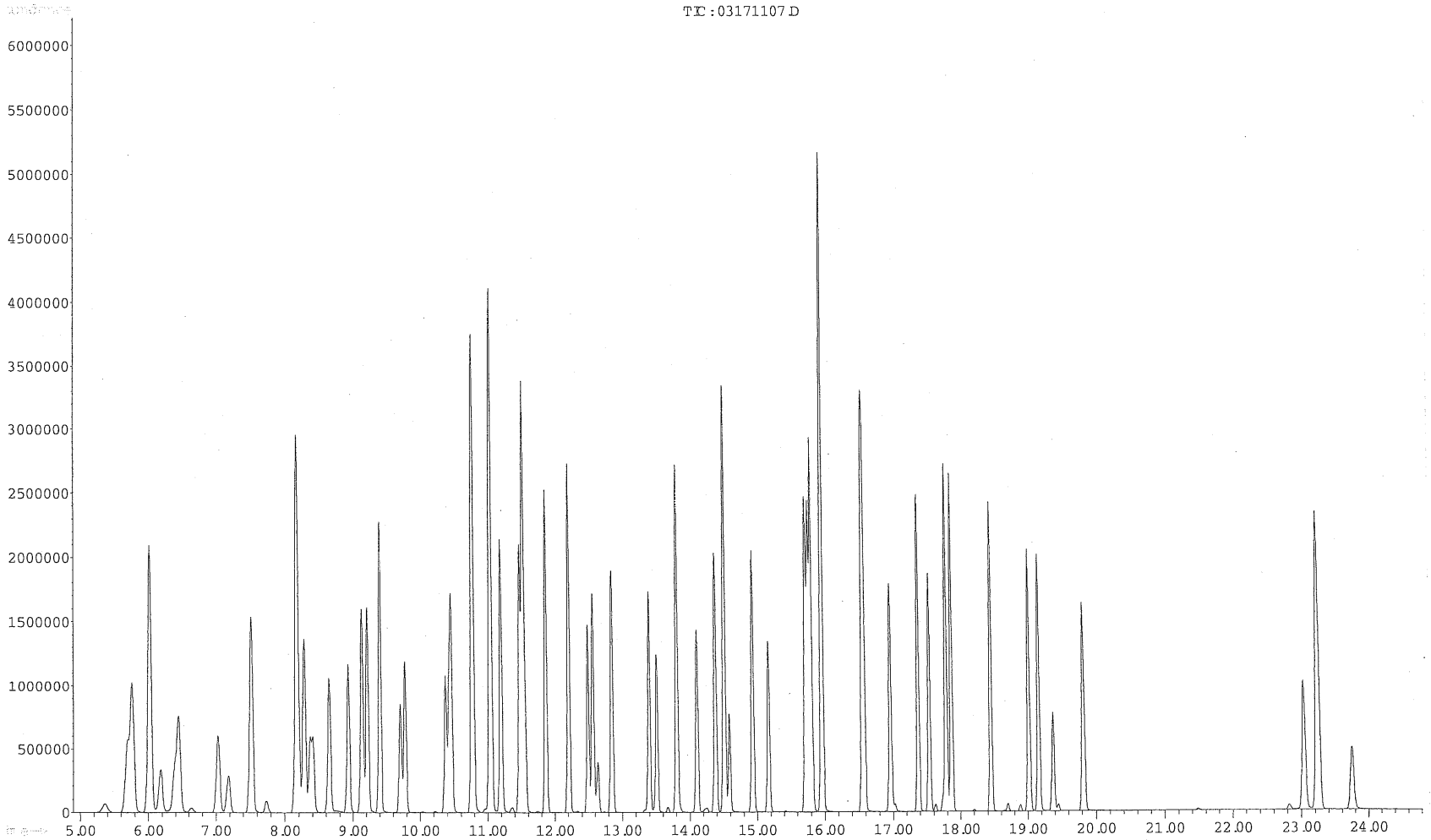
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	4198184	24.86	ppbv	98
52) o-Xylene	16.55	91	2178030	13.24	ppbv	98
53) Styrene	16.57	104	1543759	13.68	ppbv	99
54) Bromoform	16.96	173	1249884	13.21	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	1304060	13.99	ppbv	100
57) 4-Ethyltoluene	17.78	105	2548731	12.97	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	2030827	12.53	ppbv	99
59) 1,2,4-Trimethylbenzene	18.45	105	1926982	13.31	ppbv	99
60) 1,3-Dichlorobenzene	19.01	146	1314771	13.05	ppbv	100
61) 1,4-Dichlorobenzene	19.16	146	1251034	12.99	ppbv	99
62) Benzyl chloride	19.37	91	882939	14.01	ppbv	100
63) 1,2-Dichlorobenzene	19.82	146	1132220	13.01	ppbv	100
64) 1,2,4-Trichlorobenzene	23.04	180	772344	15.57	ppbv	99
65) Hexachlorobutadiene	23.24	225	1162990	13.41	ppbv	99
66) Naphthalene	23.75	128	957818	15.88	ppbv	100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171107.D Vial: 1
Acq On : 17 Mar 2011 1:27 pm Operator: Michael Truchan
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171108.D Vial: 1
Acq On : 17 Mar 2011 2:08 pm Operator: Michael Truchan
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	745277	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2670536	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1929374	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1218061	12.60	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.80%				
Target Compounds							Qvalue
2) Propylene	5.68	41	1040350	18.62	ppbv		99
3) Dichlorodifluoromethane	5.76	85	3025455	16.48	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	2320593	17.18	ppbv		95
5) Chloromethane	6.17	50	1045350	16.52	ppbv		100
6) Vinyl chloride	6.38	62	1106267	15.45	ppbv		99
7) 1,3-Butadiene	6.44	39	838930	14.89	ppbv		98
8) Bromomethane	7.03	94	1133992	17.29	ppbv		99
9) Chloroethane	7.17	64	646530	16.95	ppbv		99
10) Trichlorofluoromethane	7.51	101	2996928	17.10	ppbv		99
11) Ethanol	7.73	45	207692	16.77	ppbv		99
12) Freon113	8.17	101	2458277	17.46	ppbv		97
13) 1,1-Dichloroethene	8.27	61	1824582	17.68	ppbv		97
14) Acetone	8.36	43	1530818	16.67	ppbv		99
15) Carbon disulfide	8.64	76	3259620	17.71	ppbv	#	100
16) 2-Propanol	8.40	45	1241724	18.78	ppbv	#	1
17) Methylene chloride	8.93	49	1326116	17.67	ppbv		95
18) tert-Butyl Methyl Ether	9.13	73	2758517	16.19	ppbv		100
19) trans-1,2-Dichloroethene	9.21	61	1716939	17.67	ppbv		96
20) n-Hexane	9.40	57	1908051	17.53	ppbv		99
21) 1,1-Dichloroethane	9.77	63	2074304	17.35	ppbv		100
22) Vinyl acetate	9.70	43	2081846	17.03	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	1212487	17.74	ppbv		96
24) 2-Butanone	10.42	43	1676518	17.69	ppbv		96
25) Ethyl acetate	10.37	43	2067851	17.50	ppbv	#	100
26) Tetrahydrofuran	10.76	42	1081980	17.42	ppbv		98
27) Chloroform	10.78	83	2162470	16.65	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	2191827	16.33	ppbv		99
29) Cyclohexane	11.04	56	1812352	16.45	ppbv		98
30) Carbon tetrachloride	11.19	117	2233933	16.62	ppbv		100
31) Benzene	11.47	78	2960173	16.07	ppbv		99
32) 1,2-Dichloroethane	11.55	62	1200324	16.18	ppbv		99
34) Heptane	11.52	43	2079769	16.13	ppbv		99
35) Trichloroethene	12.20	130	1502109	16.50	ppbv		98
36) 1,2-Dichloropropane	12.56	63	1093097	17.01	ppbv		100
37) 1,4-Dioxane	12.63	88	460601	17.99	ppbv		98
38) Bromodichloromethane	12.84	83	2098653	16.67	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1666182	16.85	ppbv		99
40) 4-Methyl-2-pentanone	13.51	58	550782	18.74	ppbv		98
41) Toluene	13.81	91	3283981	16.32	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	1345051	16.44	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	1143036	17.44	ppbv		99
44) Tetrachloroethene	14.51	166	1833409	16.43	ppbv		100
45) 2-Hexanone	14.58	43	852777	19.81	ppbv		100
46) Chlorodibromomethane	14.92	129	1911769	17.39	ppbv		99
47) 1,2-Dibromoethane	15.17	107	1611925	16.87	ppbv		100
49) Chlorobenzene	15.76	112	2302832	16.98	ppbv		98
50) Ethylbenzene	15.80	91	3531366	15.74	ppbv		99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171108.D Vial: 1
Acq On : 17 Mar 2011 2:08 pm Operator: Michael Truchan
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

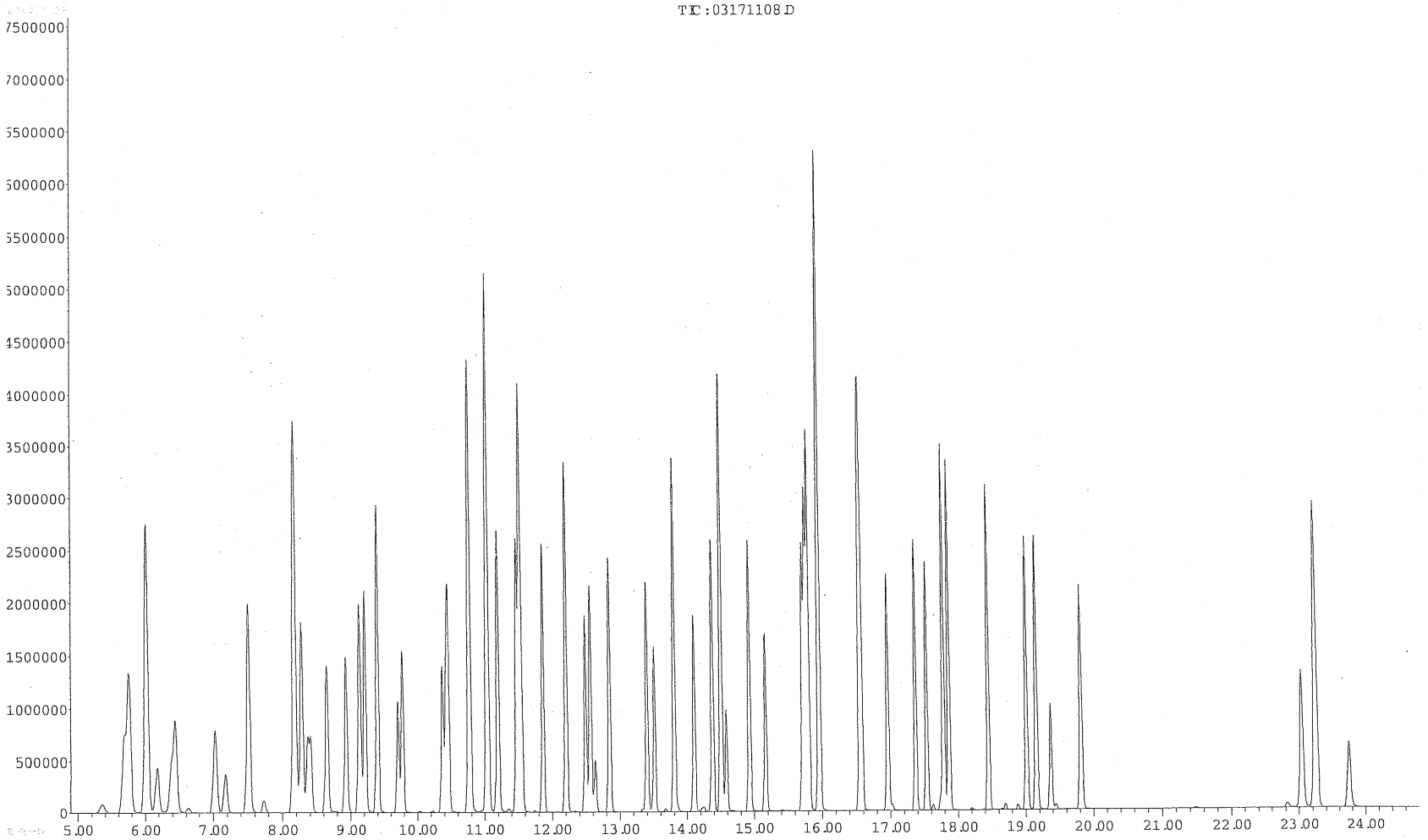
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	5162913	29.73	ppbv	99
52) o-Xylene	16.55	91	2739662	16.20	ppbv	99
53) Styrene	16.58	104	1977591	17.04	ppbv	99
54) Bromoform	16.96	173	1588841	16.32	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	1693709	17.66	ppbv	100
57) 4-Ethyltoluene	17.78	105	3238640	16.02	ppbv	99
58) 1,3,5-Trimethylbenzene	17.86	105	2592369	15.55	ppbv	99
59) 1,2,4-Trimethylbenzene	18.45	105	2485539	16.69	ppbv	100
60) 1,3-Dichlorobenzene	19.01	146	1678648	16.20	ppbv	99
61) 1,4-Dichlorobenzene	19.16	146	1589395	16.05	ppbv	99
62) Benzyl chloride	19.37	91	1132898	17.48	ppbv	100
63) 1,2-Dichlorobenzene	19.82	146	1457725	16.29	ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	974734	19.11	ppbv	98
65) Hexachlorobutadiene	23.25	225	1428542	16.01	ppbv	100
66) Naphthalene	23.75	128	1216273	19.61	ppbv	100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171108.D Vial: 1
Acq On : 17 Mar 2011 2:08 pm Operator: Michael Truchan
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

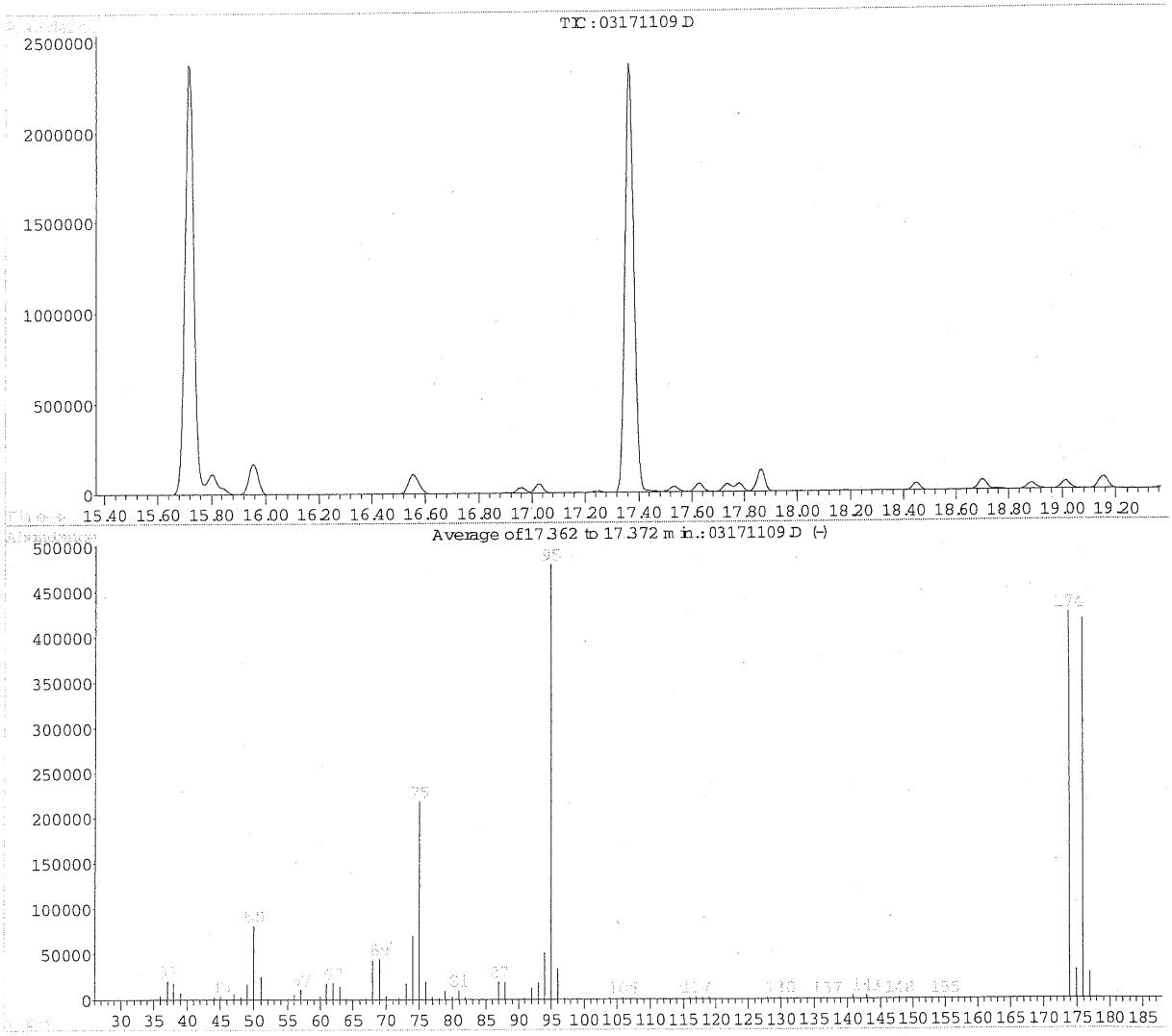
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\031711\03171109.D
Acq On : 17 Mar 2011 2:49 pm
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Average of 17.362 to 17.372 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	80720	PASS
75	95	30	60	45.5	217707	PASS
95	95	100	100	100.0	478080	PASS
96	95	5	9	6.9	33093	PASS
173	174	0.00	2	0.2	848	PASS
174	95	50	120	88.5	422869	PASS
175	174	4	9	7.2	30421	PASS
176	174	93	101	98.3	415787	PASS
177	176	5	9	6.7	27747	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	97	0.00
2	T	Propylene	0.937	1.040	-11.0	115	0.00
3	T	Dichlorodifluoromethane	3.080	3.336	-8.3	112	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.408	-6.3	109	0.00
5	T	Chloromethane	1.061	1.349	-27.1	132	0.00
6	T	Vinyl chloride	1.201	1.339	-11.5	111	0.00
7	T	1,3-Butadiene	0.945	1.015	-7.4	110	0.00
8	T	Bromomethane	1.100	0.778	29.3	72	0.00
9	T	Chloroethane	0.640	0.566	11.6	91	0.00
10	T	Trichlorofluoromethane	2.939	3.143	-6.9	110	0.00
11	T	Ethanol	0.208	0.295	-41.8#	152#	-0.01
12	T	Freon113	2.361	2.619	-10.9	113	0.00
13	T	1,1-Dichloroethene	1.731	1.675	3.2	99	0.00
14	T	Acetone	1.541	1.614	-4.7	115	0.00
15	T	Carbon disulfide	3.087	3.120	-1.1	104	0.00
16	T	2-Propanol	1.109	1.369	-23.4	129	0.00
17	T	Methylene chloride	1.259	1.286	-2.1	107	0.00
18	T	tert-Butyl Methyl Ether	2.858	3.282	-14.8	127	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.794	-10.1	112	0.00
20	T	n-Hexane	1.825	1.888	-3.5	107	0.00
21	T	1,1-Dichloroethane	2.005	2.378	-18.6	122	0.00
22	T	Vinyl acetate	2.051	2.240	-9.2	118	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.328	-15.9	120	0.00
24	T	2-Butanone	1.589	1.777	-11.8	127	0.00
25	T	Ethyl acetate	1.982	2.122	-7.1	119	0.00
26	T	Tetrahydrofuran	1.042	1.274	-22.3	129	0.00
27	T	Chloroform	2.179	2.435	-11.7	116	0.00
28	T	1,1,1-Trichloroethane	2.251	2.526	-12.2	115	0.00
29	T	Cyclohexane	1.848	2.063	-11.6	115	0.00
30	T	Carbon tetrachloride	2.254	2.630	-16.7	119	0.00
31	T	Benzene	3.090	3.697	-19.6	130	0.00
32	T	1,2-Dichloroethane	1.244	1.449	-16.5	124	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
34	T	Heptane	0.604	0.660	-9.3	114	0.00
35	T	Trichloroethene	0.426	0.706	-65.7#	174#	0.00
36	T	1,2-Dichloropropane	0.301	0.351	-16.6	123	0.00
37	T	1,4-Dioxane	0.120	0.107	10.8	94	0.00
38	T	Bromodichloromethane	0.589	0.691	-17.3	122	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.550	-18.8	125	0.00
40	T	4-Methyl-2-pentanone	0.138	0.190	-37.7#	144	0.00
41	T	Toluene	0.942	1.131	-20.1	131	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.442	-15.4	122	0.00
43	T	1,1,2-Trichloroethane	0.307	0.335	-9.1	116	0.00
44	T	Tetrachloroethene	0.522	0.588	-12.6	118	0.00
45	T	2-Hexanone	0.201	0.299	-48.8#	144	0.00
46	T	Chlorodibromomethane	0.515	0.586	-13.8	119	0.00
47	T	1,2-Dibromoethane	0.447	0.457	-2.2	108	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
49	T	Chlorobenzene	0.879	0.934	-6.3	116	0.00
50	T	Ethylbenzene	1.453	1.675	-15.3	130	0.00
51	T	m,p-Xylene	1.125	1.221	-8.5	120	0.00
52	T	o-Xylene	1.096	1.214	-10.8	124	0.00
53	T	Styrene	0.752	0.863	-14.8	125	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031711\03171110.D
Acq On : 17 Mar 2011 3:29 pm
Sample : TO15 CCV 40cc voa010711a
Misc : CCV EPA_TO15
MS Integration Params: CLME.P

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.674	-6.8	115	0.00
55	S	4-Bromofluorobenzene	0.627	0.632	-0.8	100	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.281	54.8#	49#	0.00
57	T	4-Ethyltoluene	1.309	1.260	3.7	110	0.00
58	T	1,3,5-Trimethylbenzene	1.080	1.061	1.8	113	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.912	5.5	105	0.00
60	T	1,3-Dichlorobenzene	0.671	0.680	-1.3	112	0.00
61	T	1,4-Dichlorobenzene	0.642	0.660	-2.8	113	0.00
62	T	Benzyl chloride	0.420	0.236	43.8#	63	0.00
63	T	1,2-Dichlorobenzene	0.580	0.580	0.0	112	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.264	20.0	81	0.00
65	T	Hexachlorobutadiene	0.578	0.531	8.1	100	0.00
66		Naphthalene	0.402	0.305	24.1	78	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	740828	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2609749	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1877157	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1186430	12.61	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.88%				
Target Compounds							Qvalue
2) Propylene	5.68	41	628991	11.33	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1818921	9.96	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1355601	10.09	ppbv		94
5) Chloromethane	6.17	50	759728	12.08	ppbv		99
6) Vinyl chloride	6.38	62	746105	10.48	ppbv		99
7) 1,3-Butadiene	6.44	39	589632	10.53	ppbv		99
8) Bromomethane	7.02	94	428799	6.58	ppbv		99
9) Chloroethane	7.17	64	308385	8.13	ppbv		99
10) Trichlorofluoromethane	7.51	101	1788252	10.27	ppbv		99
11) Ethanol	7.72	45	161063	13.08	ppbv		99
12) Freon113	8.17	101	1521395	10.87	ppbv		97
13) 1,1-Dichloroethene	8.27	61	982719	9.58	ppbv		96
14) Acetone	8.35	43	956340	10.47	ppbv		98
15) Carbon disulfide	8.64	76	1793537	9.80	ppbv	#	100
16) 2-Propanol	8.40	45	819631	12.47	ppbv		92
17) Methylene chloride	8.92	49	762281	10.22	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	1925753	11.37	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1041755	10.78	ppbv		95
20) n-Hexane	9.39	57	1130391	10.45	ppbv		98
21) 1,1-Dichloroethane	9.77	63	1367078	11.50	ppbv		99
22) Vinyl acetate	9.70	43	1314422	10.81	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	771286	11.35	ppbv		96
24) 2-Butanone	10.42	43	1042845	11.07	ppbv		95
25) Ethyl acetate	10.37	43	1232676	10.49	ppbv	#	100
26) Tetrahydrofuran	10.75	42	755133	12.23	ppbv		97
27) Chloroform	10.77	83	1414203	10.95	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1436952	10.77	ppbv		99
29) Cyclohexane	11.04	56	1198152	10.94	ppbv		97
30) Carbon tetrachloride	11.19	117	1480928	11.09	ppbv		100
31) Benzene	11.47	78	2103399	11.49	ppbv		99
32) 1,2-Dichloroethane	11.55	62	833043	11.30	ppbv		100
34) Heptane	11.52	43	1363412	10.82	ppbv		98
35) Trichloroethene	12.20	130	1415391	15.91	ppbv		98
36) 1,2-Dichloropropane	12.56	63	717990	11.43	ppbv		99
37) 1,4-Dioxane	12.63	88	213483	8.53	ppbv		99
38) Bromodichloromethane	12.84	83	1385711	11.27	ppbv		99
39) cis-1,3-Dichloropropene	13.40	75	1090261	11.28	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	396777	13.81	ppbv		98
41) Toluene	13.80	91	2313389	11.76	ppbv		100
42) trans-1,3-Dichloropropene	14.10	75	840468	10.51	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	685078	10.69	ppbv		98
44) Tetrachloroethene	14.50	166	1179094	10.82	ppbv		100
45) 2-Hexanone	14.58	43	611254	14.53	ppbv		99
46) Chlorodibromomethane	14.93	129	1198638	11.16	ppbv		99
47) 1,2-Dibromoethane	15.16	107	916139	9.81	ppbv		99
49) Chlorobenzene	15.76	112	1388833	10.52	ppbv		95
50) Ethylbenzene	15.80	91	2464669	11.29	ppbv		95

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171110.D
Acq On : 17 Mar 2011 3:29 pm
Sample : TO15 CCV 40cc voa010711a
Misc : CCV EPA_TO15
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	3520806	20.84	ppbv		97
52) o-Xylene	16.55	91	1823034	11.08	ppbv		97
53) Styrene	16.58	104	1269529	11.24	ppbv		99
54) Bromoform	16.96	173	971458	10.26	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	421449	4.52	ppbv		99
57) 4-Ethyltoluene	17.78	105	1854590	9.43	ppbv		98
58) 1,3,5-Trimethylbenzene	17.86	105	1546247	9.53	ppbv	#	56
59) 1,2,4-Trimethylbenzene	18.45	105	1341573	9.26	ppbv		99
60) 1,3-Dichlorobenzene	19.01	146	990743	9.83	ppbv		99
61) 1,4-Dichlorobenzene	19.16	146	951388	9.87	ppbv		99
62) Benzyl chloride	19.37	91	344163	5.46	ppbv		99
63) 1,2-Dichlorobenzene	19.82	146	844925	9.71	ppbv		100
64) 1,2,4-Trichlorobenzene	23.04	180	360244	7.26	ppbv		98
65) Hexachlorobutadiene	23.24	225	750165	8.64	ppbv		99
66) Naphthalene	23.76	128	421240	6.98	ppbv		99

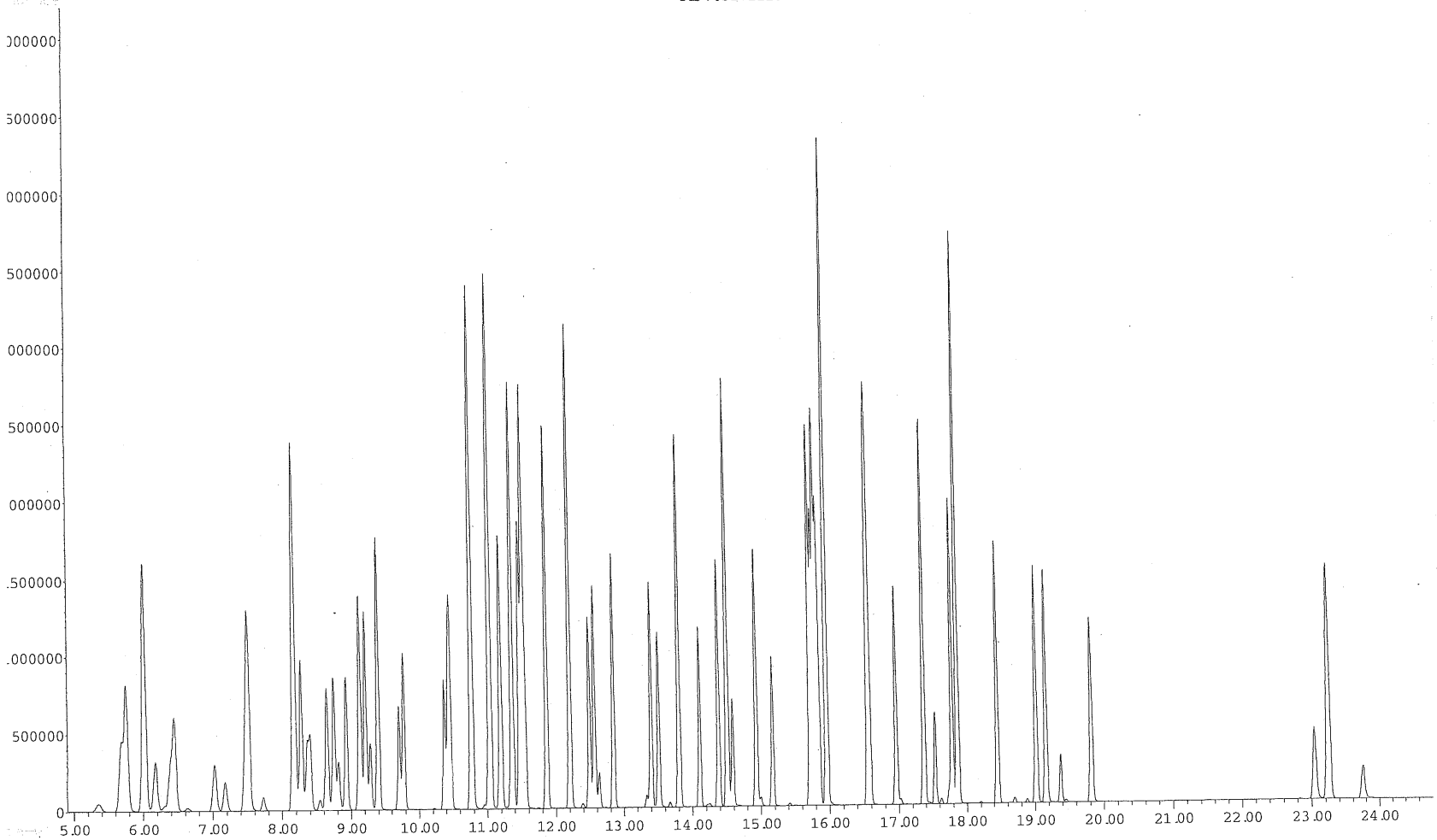
(#) = qualifier out of range (m) = manual integration

Quantitation Report

)ata File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
\cq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171110.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171112.D
Acq On : 17 Mar 2011 4:59 pm
Sample : TO15 RLVS 20cc voa092310d
Misc : RLVS EPA_TO15
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011

Vial: 2
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	756991	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2740375	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1898605	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.36	95	1194119	12.55	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.40%				
Target Compounds							Qvalue
2) Propylene	5.68	41	63374	1.12	ppbv		99
3) Dichlorodifluoromethane	5.75	85	186560	1.00	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	140845	1.03	ppbv		94
5) Chloromethane	6.17	50	67590	1.05	ppbv	#	95
6) Vinyl chloride	6.38	62	77555	1.07	ppbv	#	98
7) 1,3-Butadiene	6.44	39	72805	1.27	ppbv		96
8) Bromomethane	7.02	94	67411	1.01	ppbv		98
9) Chloroethane	7.17	64	38234	0.99	ppbv		98
10) Trichlorofluoromethane	7.51	101	187798	1.06	ppbv		98
11) Ethanol	7.73	45	14477	1.15	ppbv		97
12) Freon113	8.17	101	150888	1.06	ppbv		98
13) 1,1-Dichloroethene	8.27	61	113881	1.09	ppbv		94
14) Acetone	8.35	43	125753	1.35	ppbv	#	96
15) Carbon disulfide	8.64	76	197764	1.06	ppbv	#	99
16) 2-Propanol	8.41	45	66864	1.00	ppbv	#	1
17) Methylene chloride	8.92	49	88207	1.16	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	243224	1.41	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	106688	1.08	ppbv		94
20) n-Hexane	9.39	57	139341	1.26	ppbv		96
21) 1,1-Dichloroethane	9.77	63	132281	1.09	ppbv		99
22) Vinyl acetate	9.70	43	159238	1.28	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	75420	1.09	ppbv		95
24) 2-Butanone	10.42	43	118089	1.23	ppbv		95
25) Ethyl acetate	10.37	43	140234	1.17	ppbv	#	99
26) Tetrahydrofuran	10.76	42	72515	1.15	ppbv		95
27) Chloroform	10.77	83	150564	1.14	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	147143	1.08	ppbv		99
29) Cyclohexane	11.04	56	136665	1.22	ppbv		95
30) Carbon tetrachloride	11.19	117	145305	1.06	ppbv		98
31) Benzene	11.47	78	243458	1.30	ppbv		99
32) 1,2-Dichloroethane	11.55	62	90968	1.21	ppbv		98
34) Heptane	11.52	43	166881	1.26	ppbv		94
35) Trichloroethene	12.20	130	101153	1.08	ppbv		98
36) 1,2-Dichloropropane	12.56	63	77353	1.17	ppbv		99
37) 1,4-Dioxane	12.63	88	31073	1.18	ppbv		99
38) Bromodichloromethane	12.84	83	142563	1.10	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	111511	1.10	ppbv		97
40) 4-Methyl-2-pentanone	13.50	58	29866	0.99	ppbv		99
41) Toluene	13.80	91	280476	1.36	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	90572	1.08	ppbv		97
43) 1,1,2-Trichloroethane	14.37	97	78347	1.16	ppbv		98
44) Tetrachloroethene	14.50	166	130739	1.14	ppbv		98
45) 2-Hexanone	14.59	43	47092	1.07	ppbv		94
46) Chlorodibromomethane	14.93	129	125724	1.11	ppbv		99
47) 1,2-Dibromoethane	15.16	107	114668	1.17	ppbv		99
49) Chlorobenzene	15.76	112	162330	1.22	ppbv	#	87
50) Ethylbenzene	15.80	91	306034	1.39	ppbv		93

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171112.D
Acq On : 17 Mar 2011 4:59 pm
Sample : TO15 RLVS 20cc voa092310d
Misc : RLVS EPA_TO15
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011

Vial: 2
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.95	91	449208	2.63	ppbv		94
52) o-Xylene	16.55	91	232142	1.39	ppbv		96
53) Styrene	16.58	104	134953	1.18	ppbv		96
54) Bromoform	16.96	173	109925	1.15	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	114321	1.21	ppbv		98
57) 4-Ethyltoluene	17.78	105	281659	1.42	ppbv		99
58) 1,3,5-Trimethylbenzene	17.86	105	235426	1.44	ppbv		97
59) 1,2,4-Trimethylbenzene	18.45	105	187539	1.28	ppbv		99
60) 1,3-Dichlorobenzene	19.01	146	137531	1.35	ppbv		96
61) 1,4-Dichlorobenzene	19.16	146	128167	1.31	ppbv		97
62) Benzyl chloride	19.37	91	82877	1.30	ppbv		99
63) 1,2-Dichlorobenzene	19.82	146	115731	1.31	ppbv		96
64) 1,2,4-Trichlorobenzene	23.05	180	44446	0.89	ppbv		96
65) Hexachlorobutadiene	23.24	225	103871	1.18	ppbv		99
66) Naphthalene	23.76	128	64942	1.06	ppbv	#	95

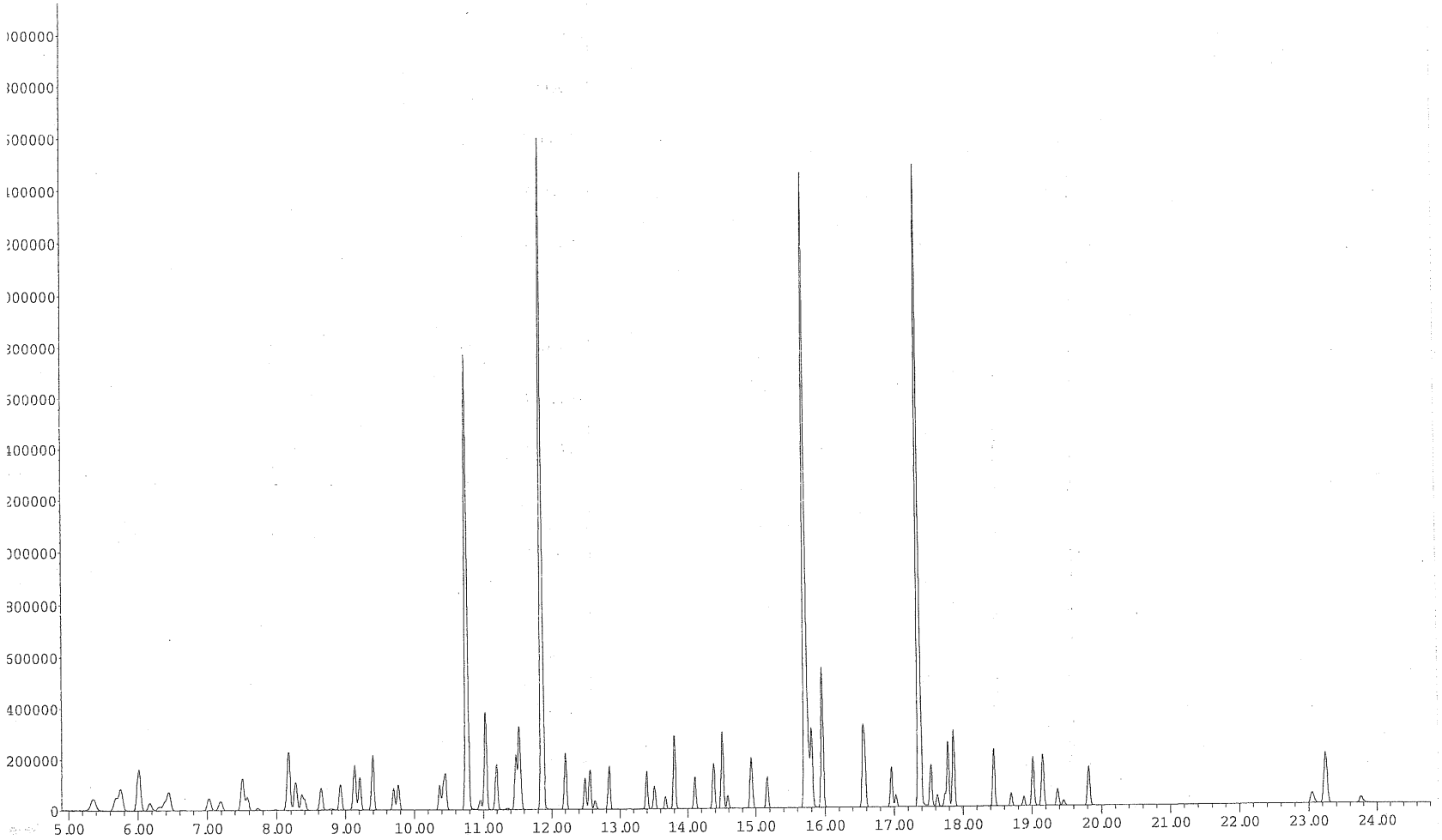
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171112.D Vial: 2
Acq On : 17 Mar 2011 4:59 pm Operator: Michael Truchan
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171112.D



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040111\04011101.D
Tune Time : 1 Apr 2011 11:12 am

Daily Calibration File : C:\HPCHEM\1\DATA\030711\03071105.D

File	Sample	Surrogate Recovery %	Internal Standard Responses		
			811415	2951230	2172950
04011102.D	TO15 CCV	95	708243	2567824	1934220
04011104.D	TO15 RLV	94	727597	2669483	1941160
04011105.D	MBLK	92	728105	2636203	1928791
04011106.D	1103389-	98	588173	2113908	1644143
04011107.D	1103389-	117*	618000	2129440	1512618
04011108.D	1103389-	97	623180	2314806	1765793
04011109.D	1103389-	98	598773	2266002	1750880
04011110.D	1103389-	101	575014	2136269	1735744
04011111.D	1103389-	103	566227	1984676	1641389
04011112.D	1103389-	95	569802	2019562	1543671
04011113.D	1103389-	96	581695	2102677	1630012
04011114.D	1103389-	96	621603	2269475	1707150
04011115.D	1103389-	96	589607	2135510	1630085
04011116.D	1103389-	99	555872	1870880	1686182
04011117.D	1103389-	94	628682	2257892	1667927
04011118.D	1103389-	100	587869	2101568	1657167
04011119.D	1103389-	101	566849	2070333	1612810
04011120.D	1103389-	97	552057	2063792	1613392
04011121.D	1103389-	95	550086	2039328	1531431
04011122.D	1103389-	101	541881	2075200	1553238
04011123.D	1103389-	103	534419	1973142	1553026
04011124.D	1103389-	97	518528	1929447	1424211
04011125.D	TO15 RLV	95	554840	2093009	1469215

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 11:49:07 2011 GC MS Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040211\04021101.D
Tune Time : 2 Apr 2011 10:40 am

Daily Calibration File : C:\HPCHEM\1\DATA\030711\03071105.D

			811415	2951230	2172950
File	Sample	Surrogate Recovery %	Internal Standard Responses		
04021102.D	TO15 CCV	95	596044	2173361	1580686
04021103.D	TO15 RLV	97	606027	2249611	1615032
04021104.D	MBLK	93	607636	2223336	1590860
04021106.D	1103389-	102	556668	2125204	1570417
04021107.D	1103389-	108	566358	2195057	1646902
04021108.D	1103389-	106	597656	2299288	1703630
04021109.D	1103389-	97	552312	2109827	1563857
04021110.D	1103389-	97	562347	2108893	1540435
04021111.D	1103389-	103	524075	2026441	1485170
04021112.D	1103389-	101	525510	1974101	1490650
04021113.D	1103389-	103	495199	1764039	1335564
04021114.D	1103389-	97	513308	1845043	1337344
04021115.D	1103389-	97	520349	1948792	1414921
04021116.D	1103389-	101	496236	1735200	1329319
04021117.D	1103389-	98	504843	1766133	1418083
04021118.D	1103389-	100	494501	1770184	1324184
04021119.D	1103389-	99	472099	1691677	1254711
04021120.D	1103389-	100	472126	1672891	1213139
04021121.D	1103389-	100	464879	1645746	1250705
04021122.D	TO15 RLV	96	493102	1893875	1347067

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 12:15:22 2011 GC MS Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040511\04051101.D
Tune Time : 5 Apr 2011 10:02 am

Daily Calibration File : C:\HPCHEM\1\DATA\030711\03071105.D

File	Sample	Surrogate Recovery %	Internal Standard Responses		
			811415	2951230	2172950
04051102.D	TO15 CCV	98	592350	2152311	1591423
04051103.D	TO15 CCV	99	609792	2094150	1540048
04051104.D	TO15 RLV	99	609838	2187406	1543267
04051105.D	MBLK	94	606512	2176127	1506272
04051106.D	CLEAN CH	94	594783	2134515	1464237
04051107.D	CLEAN CH	94	586626	2085668	1413770
04051108.D	1103389-	98	570986	1996064	1439020
04051110.D	1103389-	97	566293	1977413	1414491
04051111.D	1103389-	105	516154	1587533	1514333
04051112.D	1103389-	102	577909	2078942	1536000
04051113.D	1103389-	104	539937	2035625	1499648
04051114.D	1103389-	105	538378	1926083	1517427
04051115.D	1103389-	125*	351461*	1098553*	1570000
04051116.D	1103389-	102	687011	2335522	1887500
04051117.D	1103389-	101	714788	2520846	1946870
04051118.D	1103389-	98	729032	2478538	1852051
04051119.D	1103389-	99	708224	2353141	1883452
04051120.D	1103389-	97	713598	2470483	1872029
04051121.D	1103389-	101	671093	2171606	1876105
04051122.D	1103389-	99	708192	2454894	1886064
04051123.D	1103389-	98	714393	2485732	1835341
04051124.D	1103389-	102	666828	2427606	1793204
04051125.D	1103389-	97	674209	2450852	1757948
04051126.D	1103389-	98	650704	2371190	1699829
04051127.D	1103609-	101	626353	2280963	1638091
04051128.D	1103609-	100	607038	2215414	1552803
04051129.D	1103609-	100	576030	2135677	1524842
04051130.D	1103609-	100	556894	2071074	1505627
04051131.D	1103609-	101	531030	1897326	1522474
04051132.D	1103609-	101	545943	1941202	1540754
04051133.D	TO15 RLV	101	593261	2204699	1558731

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 12:36:06 2011 GC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040611\04061101.D
Tune Time : 6 Apr 2011 10:17 am

Daily Calibration File : C:\HPCHEM\1\DATA\030711\03071105.D

			811415	2951230	2172950
File	Sample	Surrogate Recovery %	Internal Standard Responses		
04061102.D	TO15 CCV	101	606643	2059428	1488864
04061103.D	TO15 RLV	101	599834	2138885	1500764
04061104.D	MBLK	98	584673	2147567	1485705
04061105.D	tedlar b	103	556728	2177120	1456503
04061106.D	digital	97	528628	1910351	1330940
04061107.D	1104113-	104	469725	1661498	1231527
04061108.D	1103389-	101	512160	1856225	1364721
04061109.D	1104113-	103	524347	1932044	1390508
04061110.D	1103389-	100	490678	1746666	1202987
04061111.D	1103389-	99	486908	1742841	1217097
04061112.D	1103389-	100	470556	1662762	1178453
04061113.D	1103389-	100	465566	1632181	1163433
04061114.D	1103389-	103	460640	1572041	1198930
04061115.D	1103389-	99	471276	1668043	1215784
04061116.D	1103389-	99	474515	1704454	1218805
04061117.D	1103389-	99	478577	1753137	1210849
04061118.D	1103389-	99	458502	1655503	1191283
04061119.D	1103389-	98	463590	1648980	1178344
04061120.D	1103609-	99	459824	1636131	1146646
04061121.D	1103609-	100	453323	1634998	1162655
04061122.D	1103609-	96	448310	1601609	1133738
04061123.D	1103609-	99	451288	1636054	1137864
04061124.D	1103609-	104	406261	1315464*	1246819
04061125.D	1103609-	99	482159	1742657	1242546
04061126.D	1103609-	101	461078	1621683	1264660
04061127.D	1103609-	103	464599	1601510	1305601
04061128.D	TO15 RLV	100	470394	1736457	1220964

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 13:11:54 2011 GC
MS Ins

RTI Laboratories

Run ID: VOA1_110409A **Run No.:** 39774

Analytical Run Date: 4/9/2011 **InstrumentID:** VOA1

Analyst: Michael Truchan **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39774	4/9/2011 1:17:00 PM			
MASS APH L1 20cc	MA_APH	ICAL	R39774	4/9/2011 1:59:00 PM			
MASS APH L2 40cc	MA_APH	ICAL	R39774	4/9/2011 2:40:00 PM			
MASS APH L3 48cc	MA_APH	ICAL	R39774	4/9/2011 3:21:00 PM			
MASS APH L4 60cc	MA_APH	ICAL	R39774	4/9/2011 4:02:00 PM			
MASS APH L5 80cc	MA_APH	ICAL	R39774	4/9/2011 4:44:00 PM			
MASS APH L6 125c	MA_APH	ICAL	R39774	4/9/2011 5:26:00 PM			
MASS APH L7 200c	MA_APH	ICAL	R39774	4/9/2011 6:08:00 PM			
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39774	4/9/2011 6:48:00 PM			
APH CCV 150cc vo	MA_APH	CCV	R39774	4/9/2011 7:30:00 PM			
APH RLVS 20cc vo	MA_APH	RLVS	R39774	4/9/2011 8:11:00 PM			Autosampler program error. RLVS did not inject. Reran RLVS later in run.
1103389-001B	MA_APH	SAMP	R39774	4/9/2011 9:35:00 PM		H	
1103389-002B	MA_APH	SAMP	R39774	4/9/2011 10:16:00 PM		H	
1103389-002BDUP	MA_APH	DUP	R39774	4/9/2011 10:57:00 PM		H	
1103389-003B	MA_APH	SAMP	R39774	4/9/2011 11:41:00 PM		H	
1103389-004B	MA_APH	SAMP	R39774	4/10/2011 12:23:00 AM		H	
1103389-005B	MA_APH	SAMP	R39774	4/10/2011 1:05:00 AM		H	
1103389-006B	MA_APH	SAMP	R39774	4/10/2011 1:47:00 AM		H	
1103389-008B	MA_APH	SAMP	R39774	4/10/2011 2:28:00 AM		H	
1103389-009B	MA_APH	SAMP	R39774	4/10/2011 3:09:00 AM		H	
1103389-010B	MA_APH	SAMP	R39774	4/10/2011 3:49:00 AM		H	
1103389-012B	MA_APH	SAMP	R39774	4/10/2011 5:12:00 AM		H	
1103389-013B	MA_APH	SAMP	R39774	4/10/2011 5:53:00 AM		H	
1103389-014B	MA_APH	SAMP	R39774	4/10/2011 6:34:00 AM		H	
1103389-007B	MA_APH	SAMP	R39774	4/10/2011 7:15:00 AM		H	
APH RLVS 20cc vo	MA_APH	RLVS	R39774	4/10/2011 8:14:00 AM			
MBLK 4/09/11	MA_APH	MBLK	R39774	4/10/2011 9:32:00 AM			
MBLK 4/10/11	MA_APH	MBLK	R39774	4/10/2011 10:15:00 AM			
1103389-011B	MA_APH	SAMP	R39774	4/10/2011 10:57:00 AM		H	
1103389-015B	MA_APH	SAMP	R39774	4/10/2011 11:38:00 AM		H	
1103389-015BDUP	MA_APH	DUP	R39774	4/10/2011 12:19:00 PM		H	
1103389-016B	MA_APH	SAMP	R39774	4/10/2011 1:00:00 PM		H	
1103389-017B	MA_APH	SAMP	R39774	4/10/2011 1:42:00 PM		H	
1103389-018B	MA_APH	SAMP	R39774	4/10/2011 2:23:00 PM		H	
1103389-019B	MA_APH	SAMP	R39774	4/10/2011 3:04:00 PM		H	

RTI Laboratories

Run ID: VOA1_110409A **Run No.: 39774**

1103389-020B	MA_APH	SAMP	R39774	4/10/2011 3:47:00 PM		H	
1103389-021B	MA_APH	SAMP	R39774	4/10/2011 4:28:00 PM		H	
1103389-022B	MA_APH	SAMP	R39774	4/10/2011 5:09:00 PM		H	
1103389-023B	MA_APH	SAMP	R39774	4/10/2011 5:50:00 PM		H	
1103389-024B	MA_APH	SAMP	R39774	4/10/2011 6:31:00 PM		H	
APH RLVS 20cc vo	MA_APH	RLVS	R39774	4/10/2011 7:54:00 PM			

RTI Laboratories

Run ID: VOA1_110411A **Run No.:** 39776

Analytical Run Date: 4/11/2011 **InstrumentID:** VOA1

Analyst: Michael Truchan **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ICAL 39774

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39776	4/11/2011 10:37:00 AM	Charles O`Bryan		
APH CCV 150cc vo	MA_APH	CCV	R39776	4/11/2011 11:19:00 AM	Charles O`Bryan		
APH RLVS 20cc vo	MA_APH	RLVS	R39776	4/11/2011 12:00:00 PM	Charles O`Bryan		
MBLK 4/11/11	MA_APH	MBLK	R39776	4/11/2011 12:44:00 PM	Charles O`Bryan		
1103389-025B	MA_APH	SAMP	R39776	4/11/2011 1:24:00 PM	Charles O`Bryan	H	
1103389-025BDUP	MA_APH	DUP	R39776	4/11/2011 2:05:00 PM	Charles O`Bryan	H	
1103389-026B	MA_APH	SAMP	R39776	4/11/2011 2:45:00 PM	Charles O`Bryan	H	
1103389-027B	MA_APH	SAMP	R39776	4/11/2011 3:25:00 PM	Charles O`Bryan	H	
1103389-028B	MA_APH	SAMP	R39776	4/11/2011 4:06:00 PM	Charles O`Bryan	H	
1103389-029B	MA_APH	SAMP	R39776	4/11/2011 4:47:00 PM	Charles O`Bryan	H	
1103389-030B	MA_APH	SAMP	R39776	4/11/2011 5:27:00 PM	Charles O`Bryan	H	
1103389-031B	MA_APH	SAMP	R39776	4/11/2011 6:08:00 PM	Charles O`Bryan	H	
1103389-032B	MA_APH	SAMP	R39776	4/11/2011 6:47:00 PM	Charles O`Bryan	H	
1103389-033B	MA_APH	SAMP	R39776	4/11/2011 7:28:00 PM	Charles O`Bryan	H	
1103389-034B	MA_APH	SAMP	R39776	4/11/2011 8:09:00 PM	Charles O`Bryan	H	
1103389-035B	MA_APH	SAMP	R39776	4/11/2011 8:49:00 PM	Charles O`Bryan	H	
1103389-038B	MA_APH	SAMP	R39776	4/11/2011 11:02:00 PM	Charles O`Bryan		
MBLK(2) 4/1/11	MA_APH	MBLK	R39776	4/11/2011 11:45:00 PM	Charles O`Bryan		
1103609-001A	MA_APH	SAMP	R39776	4/12/2011 12:26:00 AM	Charles O`Bryan	H	
1103609-001ADUP	MA_APH	DUP	R39776	4/12/2011 1:07:00 AM	Charles O`Bryan	H	
1103609-002A	MA_APH	SAMP	R39776	4/12/2011 1:48:00 AM	Charles O`Bryan	H	
1103609-003A	MA_APH	SAMP	R39776	4/12/2011 2:29:00 AM	Charles O`Bryan	H	
1103609-005A	MA_APH	SAMP	R39776	4/12/2011 3:52:00 AM	Charles O`Bryan	H	
1103609-006A	MA_APH	SAMP	R39776	4/12/2011 4:33:00 AM	Charles O`Bryan	H	
1103609-007A	MA_APH	SAMP	R39776	4/12/2011 5:14:00 AM	Charles O`Bryan	H	
APH RLVS 20cc vo	MA_APH	RLVS	R39776	4/12/2011 5:56:00 AM	Charles O`Bryan		

RTI Laboratories

Run ID: VOA1_110413A **Run No.:** 39813

Analytical Run Date: 4/13/2011 **InstrumentID:** VOA1

Analyst: Michael Truchan **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ch rev 4/15/11

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39813	4/13/2011 3:47:00 PM	Charles O`Bryan		
APH CCV 150cc vo	MA_APH	CCV	R39813	4/13/2011 4:29:00 PM	Charles O`Bryan		
APH RLVS 20cc vo	MA_APH	RLVS	R39813	4/13/2011 5:11:00 PM	Charles O`Bryan		
MBLK 4/13/11	MA_APH	MBLK	R39813	4/13/2011 5:55:00 PM	Charles O`Bryan		
1103609-004A	MA_APH	SAMP	R39813	4/13/2011 6:37:00 PM	Charles O`Bryan	H	
1103609-004ADUP	MA_APH	DUP	R39813	4/13/2011 7:18:00 PM	Charles O`Bryan	H	
1103389-036B	MA_APH	SAMP	R39813	4/14/2011 11:11:00 AM	Charles O`Bryan	H	
1103609-017A	MA_APH	SAMP	R39813	4/14/2011 12:35:00 PM	Charles O`Bryan	H	
1103389-037B	MA_APH	SAMP	R39813	4/14/2011 2:00:00 PM	Charles O`Bryan	H	
APH RLVS 20cc vo	MA_APH	RLVS	R39813	4/14/2011 3:46:00 PM	Charles O`Bryan		

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755830	BFB 50cc voa020211c	BFB_TUNE	TUNE	\1\DATA\040911	4/9/2011 6:48:00	1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.4	0.4		0	0	0	0	0	0	0%	0	2	0%	
174	M		87.6	87.6		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.5	7.5		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.6	97.6		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	
50	M		18	18		0	0	0	0	0	0	0%	8	40	0%	
75	M		47.4	47.4		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		7	7		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755795	APH CCV 150cc vo	MA_APH	CCV	\1\DATA\040911	4/9/2011 7:30:00	1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	238.72	238.72		222	0	0	0	0	0	108%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	237.24	237.24		185	0	0	0	0	0	128%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	347.6	347.6		281	0	0	0	0	0	124%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.66	90.66		89.5	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755796	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\040911	4/9/2011 8:11:00	1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755796	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\040911	4/9/2011 8:11:00	1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	25.48	25.48		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	96.45	96.45		117	0	0	0	0	0	82%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	4.04	4.04		133	0	0	0	0	0	3%	70	130	0%	S
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	77.04	77.04		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	105.16	105.16		249	0	0	0	0	0	42%	70	130	0%	S
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	165.96	165.96		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	126.91	126.91		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.04	96.04		89.5	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755797	1103389-001B	MA_APH	SAMP	\1\DATA\040911	4/9/2011 9:35:00	80	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	507.35	40588		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
(1) C5-C8 Aliphatic Hydrocarbons	A	µg/m³	347.68	27814.4		0	0	0	9360	9360	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.76	0		0	0	0	10640	10640	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	742.12	59369.6		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
(2) C9-C12 Aliphatic Hydrocarbons	A	µg/m³	586.56	46924.8		0	0	0	19920	19920	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	590.32	47225.6		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	159.67	12773.6		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	151.8	12144		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000		1000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.46	7636.8		7160	0	0	0	0	0	107%	70	130	0%	

(1) C5-C8 Aliphatic − non C5-C8 TOTAL
507.35 − 159.67 = 347.68

(2) C9-C12 Aliphatic − non C9-C12 TOTAL
742.12 − 151.8 = 590.32
C9-C12 Ali-Aro − C9-C10-Aro
590.32 − 3.76 = 586.56

6

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755798	1103389-002B	MA_APH	SAMP	\1\DATA\040911'4/9/2011 10:16:0		40000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	655.28	26211200		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	440.13	17605200		0	0	0	4680000	4680000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.44	0		0	0	0	5320000	5320000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	188.96	7558400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	42.07	0		0	0	0	9960000	9960000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	46.51	1860400		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	215.15	8606000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	142.45	5698000		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.86	3714400		3580000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755799	1103389-002BDUP	MA_APH	DUP	\1\DATA\040911'4/9/2011 10:57:0		40000	R39774		0	755798	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	609.06	24362400		0	0	26211200	0	0	0	0%	0	0	7%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	409.8	16392000		0	0	17605200	4680000	4680000	0	0%	0	0	7%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.92	0		0	0	0	5320000	5320000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	175.88	7035200		0	0	7558400	0	0	0	0%	0	0	7%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	40.72	0		0	0	0	9960000	9960000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	44.64	1785600		0	0	1860400	0	0	0	0%	0	0	4%	B
non C5-C8 - TOTAL	A	µg/m³	199.26	7970400		0	0	8606000	0	0	0	0%	0	0	8%	B
non C9-C12 - TOTAL	A	µg/m³	131.24	5249600		0	0	5698000	0	0	0	0%	0	0	8%	B
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	500000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.06	3642400		3580000	0	3714400	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755800	1103389-003B	MA_APH	SAMP	\1\DATA\040911\4/9/2011 11:41:0		200	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	760.28	152056		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	534.11	106822		0	0	0	23400	23400	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	18.35	0		0	0	0	26600	26600	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	510.91	102182		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	277.76	55552		0	0	0	49800	49800	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	296.11	59222		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	226.17	45234		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	214.8	42960		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2500		2500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	97.16	19432		17900	0	0	0	0	0	109%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755801	1103389-004B	MA_APH	SAMP	\1\DATA\040911\4/10/2011 12:23:		2000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1333.92	2667840		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1043.56	2087120		0	0	0	234000	234000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.04	0		0	0	0	266000	266000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	316.52	633040		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	128.78	0		0	0	0	498000	498000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	138.82	277640		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	290.36	580720		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	177.7	355400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	25000		25000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.77	193540		179000	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755802	1103389-005B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 1:05:0	2000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1077.82	2155640		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	806.7	1613400		0	0	0	234000	234000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	17.38	0		0	0	0	266000	266000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	382.91	765820		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	165.03	0		0	0	0	498000	498000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	182.41	364820		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	271.12	542240		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	200.5	401000		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	25000		25000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.13	192260		179000	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755803	1103389-006B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 1:47:0	20000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	822.21	16444200		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	571.98	11439600		0	0	0	2340000	2340000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.65	0		0	0	0	2660000	2660000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	239.46	4789200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	74.94	0		0	0	0	4980000	4980000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	81.59	1631800		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	250.23	5004600		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	157.87	3157400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	99.26	1985200		1790000	0	0	0	0	0	111%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755805	1103389-008B	MA_APH	SAMP	\1\DATA\040911'4/10/2011 2:28:0		10000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	677.79	6777900		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	529.29	5292900		0	0	0	1170000	1170000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.58	0		0	0	0	1330000	1330000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	208.22	2082200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	63.71	0		0	0	0	2490000	2490000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	68.29	682900		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	148.5	1485000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	139.93	1399300		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	125000		125000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.05	950500		895000	0	0	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755806	1103389-009B	MA_APH	SAMP	\1\DATA\040911'4/10/2011 3:09:0		10000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	651.75	6517500		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	509.28	5092800		0	0	0	1170000	1170000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.31	0		0	0	0	1330000	1330000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	196.78	1967800		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	54.2	0		0	0	0	2490000	2490000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	58.51	585100		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	142.47	1424700		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	138.27	1382700		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	125000		125000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.4	954000		895000	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755807	1103389-010B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 3:49:0	80000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1202.52	96201600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	950.32	76025600		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.66	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	204.19	16335200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	51.86	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	56.52	4521600		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	252.2	20176000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	147.67	11813600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.11	7368800		7160000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755808	1103389-012B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 5:12:0	1600	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	711.94	1139104		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	468.36	749376		0	0	0	187200	187200	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	11.87	0		0	0	0	212800	212800	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	361.85	578960		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	142.46	0		0	0	0	398400	398400	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	154.33	246928		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	243.58	389728		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	207.52	332032		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	107.55	172080		143200	0	0	0	0	0	120%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755809	1103389-013B	MA_APH	SAMP	\1\DATA\040911'4/10/2011 5:53:0		40	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	594.59	23783.6		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	461.09	18443.6		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.15	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	950.97	38038.8		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	790.14	31605.6		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	793.29	31731.6		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	133.5	5340		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	157.68	6307.2		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.8	3872		3580	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755810	1103389-014B	MA_APH	SAMP	\1\DATA\040911'4/10/2011 6:34:0		1600	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	706.61	1130576		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	480.08	768128		0	0	0	187200	187200	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.29	0		0	0	0	212800	212800	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	273.87	438192		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	99.81	0		0	0	0	398400	398400	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	106.1	169760		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	226.53	362448		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	167.77	268432		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	105.82	169312		143200	0	0	0	0	0	118%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755804	1103389-007B	MA_APH	SAMP	\1\DATA\040911\4/10/2011 7:15:0		20000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	796.53	15930600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	587.31	11746200		0	0	0	2340000	2340000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.44	0		0	0	0	2660000	2660000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	185.75	3715000		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	36.03	0		0	0	0	4980000	4980000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	40.47	809400		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	209.22	4184400		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	145.28	2905600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	250000		250000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.81	1916200		1790000	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755811	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\040911\4/10/2011 8:14:0		1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	146.75	146.75		117	0	0	0	0	0	125%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	163	163		133	0	0	0	0	0	123%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	292.22	292.22		249	0	0	0	0	0	117%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.43	89.43		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755812	MBLK 4/09/11	MA_APH	MBLK	\1\DATA\040911\4/10/2011 9:32:0		1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	100.54	100.54		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-9.8	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.59	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	149.52	149.52		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	26.41	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	30	30		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	110.34	110.34		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	119.52	119.52		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.32	89.32		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755813	MBLK 4/10/11	MA_APH	MBLK	\1\DATA\040911\4/10/2011 10:15:		1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	89.3	89.3		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-19.85	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.61	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	144.42	144.42		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	21.4	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	25.01	25.01		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	109.15	109.15		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	119.41	119.41		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.7	88.7		89.5	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755814	1103389-011B	MA_APH	SAMP	\1\DATA\040911\	4/10/2011 10:57:	800	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	691.82	553456		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	462.42	369936		0	0	0	93600	93600	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	7.37	0		0	0	0	106400	106400	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	268.04	214432		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	17.89	0		0	0	0	199200	199200	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	25.26	20208		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	229.4	183520		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	242.78	194224		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	10000		10000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.06	73648		71600	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755862	1103389-015B	MA_APH	SAMP	\1\DATA\040911\	4/10/2011 11:38:	40	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	833.92	33356.8		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	624.03	24961.2		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	7	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	1181.56	47262.4		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	986.85	39474		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	993.85	39754		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	209.89	8395.6		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	187.71	7508.4		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	98.81	3952.4		3580	0	0	0	0	0	110%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755863	1103389-015BDUP	MA_APH	DUP	\1\DATA\040911\4/10/2011 12:19:		40	R39774		0	755862	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	833.36	33334.4		0	0	33356.8	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	617.36	24694.4		0	0	24961.2	4680	4680	0	0%	0	0	1%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	1140.69	45627.6		0	0	47262.4	0	0	0	0%	0	0	4%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	950.35	38014		0	0	39474	9960	9960	0	0%	0	0	4%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	950.35	38014		0	0	39754	0	0	0	0%	0	0	4%	B
non C5-C8 - TOTAL	A	µg/m³	216	8640		0	0	8395.6	0	0	0	0%	0	0	3%	B
non C9-C12 - TOTAL	A	µg/m³	190.34	7613.6		0	0	7508.4	0	0	0	0%	0	0	1%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	500	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	98.91	3956.4		3580	0	3952.4	0	0	0	111%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755817	1103389-016B	MA_APH	SAMP	\1\DATA\040911\4/10/2011 1:00:0		1600	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	586.25	938000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	423.47	677552		0	0	0	187200	187200	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.92	0		0	0	0	212800	212800	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	188.94	302304		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	46.8	0		0	0	0	398400	398400	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	50.72	81152		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	162.78	260448		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	138.22	221152		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.02	153632		143200	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755818	1103389-017B	MA_APH	SAMP	\1\DATA\040911'4/10/2011 1:42:0		1600	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	905.44	1448704		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	616.16	985856		0	0	0	187200	187200	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	11.47	0		0	0	0	212800	212800	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	325.94	521504		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	114.04	0		0	0	0	398400	398400	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	125.51	200816		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	289.28	462848		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	200.43	320688		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.8	154880		143200	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755819	1103389-018B	MA_APH	SAMP	\1\DATA\040911'4/10/2011 2:23:0		10000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	981.72	9817200		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	732.03	7320300		0	0	0	1170000	1170000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.44	0		0	0	0	1330000	1330000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	197.15	1971500		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	44.57	0		0	0	0	2490000	2490000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	49.01	490100		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	249.69	2496900		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	148.14	1481400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	125000		125000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.7	967000		895000	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755820	1103389-019B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 3:04:0	800	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1589.42	1271536		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1208.85	967080		0	0	0	93600	93600	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	20.48	0		0	0	0	106400	106400	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	477.77	382216		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	199.44	0		0	0	0	199200	199200	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	219.92	175936		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	380.57	304456		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	257.85	206280		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	10000		10000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.88	76704		71600	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755821	1103389-020B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 3:47:0	8000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	636.64	5093120		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	427.81	3422480		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.95	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	244.57	1956560		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	81.43	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	88.38	707040		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	208.83	1670640		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	156.19	1249520		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	97.62	780960		716000	0	0	0	0	0	109%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755822	1103389-021B	MA_APH	SAMP	\1\DATA\040911\4/10/2011 4:28:0		160000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1157.56	185209600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	898.54	143766400		0	0	0	18720000	18720000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.63	0		0	0	0	21280000	21280000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	185.39	29662400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	35.27	0		0	0	0	39840000	39840000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	38.9	6224000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	259.02	41443200		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	146.49	23438400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	94.6	15136000		14320000	0	0	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755823	1103389-022B	MA_APH	SAMP	\1\DATA\040911\4/10/2011 5:09:0		80000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1545.45	123636000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1250.55	100044000		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.65	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	181.99	14559200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	33.8	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	37.45	2996000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	294.9	23592000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	144.54	11563200		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	93.2	7456000		7160000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755824	1103389-023B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 5:50:0	80000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1732.45	138596000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1406.14	112491200		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.84	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	199.04	15923200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	42.06	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	46.9	3752000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	326.31	26104800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	152.14	12171200		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	93.9	7512000		7160000	0	0	0	0	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755825	1103389-024B	MA_APH	SAMP	\1\DATA\040911	4/10/2011 6:31:0	80000	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	702.29	56183200		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	485.9	38872000		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.59	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	186.85	14948000		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	35.52	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	39.11	3128800		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	216.39	17311200		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	147.74	11819200		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	94.13	7530400		7160000	0	0	0	0	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755826	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\040911	4/10/2011 7:54:0	1	R39774		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	124.94	124.94		117	0	0	0	0	0	107%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	138.4	138.4		133	0	0	0	0	0	104%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	254.59	254.59		249	0	0	0	0	0	102%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.96	88.96		89.5	0	0	0	0	0	99%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39776

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755933	BFB 50cc voa020211c	BFB_TUNE	TUNE	\1\DATA\041111\	4/11/2011 10:37:	1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.2	0.2		0	0	0	0	0	0	0%	0	2	0%	
174	M		89.1	89.1		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.5	7.5		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.5	97.5		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.6	6.6		0	0	0	0	0	0	0%	5	9	0%	
50	M		18.5	18.5		0	0	0	0	0	0	0%	8	40	0%	
75	M		48.5	48.5		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		7	7		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755938	APH CCV 150cc vo	MA_APH	CCV	\1\DATA\041111\	4/11/2011 11:19:	1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	207.54	207.54		222	0	0	0	0	0	93%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	206.45	206.45		185	0	0	0	0	0	112%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	303.21	303.21		281	0	0	0	0	0	108%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.92	89.92		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755939	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\041111\4/11/2011 12:00:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	145.48	145.48		117	0	0	0	0	0	124%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	172.98	172.98		133	0	0	0	0	0	130%	70	130	0%	S
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	302.45	302.45		249	0	0	0	0	0	121%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.33	89.33		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755878	MBLK 4/11/11	MA_APH	MBLK	\1\DATA\041111\4/11/2011 12:44:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	110.15	110.15		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-6.03	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	167.47	167.47		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	64.28	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	64.28	64.28		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	116.18	116.18		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	103.19	103.19		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.2	89.2		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755879	1103389-025B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 1:24:0		80000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	417.27	33381600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	244.3	19544000		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.73	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	163.85	13108000		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	25.77	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	29.5	2360000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	172.97	13837600		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	134.35	10748000		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.36	7388800		7160000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755880	1103389-025BDUP	MA_APH	DUP	\1\DATA\041111\4/11/2011 2:05:0		80000	R39776		0	755879	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	359.41	28752800		0	0	33381600	0	0	0	0%	0	0	15%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	211.27	16901600		0	0	19544000	9360000	9360000	0	0%	0	0	15%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.17	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	134.92	10793600		0	0	13108000	0	0	0	0%	0	0	19%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	22.01	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	25.18	2014400		0	0	2360000	0	0	0	0%	0	0	16%	B
non C5-C8 - TOTAL	A	µg/m³	148.14	11851200		0	0	13837600	0	0	0	0%	0	0	15%	B
non C9-C12 - TOTAL	A	µg/m³	109.74	8779200		0	0	10748000	0	0	0	0%	0	0	20%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	1000000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.03	7282400		7160000	0	7388800	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755881	1103389-026B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 2:45:0		160000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	991.24	158598400		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	772.56	123609600		0	0	0	18720000	18720000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.42	0		0	0	0	21280000	21280000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	141.47	22635200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	25.12	0		0	0	0	39840000	39840000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	28.54	4566400		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	218.68	34988800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	112.93	18068800		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.07	14411200		14320000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755882	1103389-027B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 3:25:0		80000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1197.45	95796000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	940.39	75231200		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.75	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	159.23	12738400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	29.69	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	33.44	2675200		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	257.06	20564800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	125.79	10063200		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.13	7050400		7160000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755883	1103389-028B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 4:06:0		80000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	392.55	31404000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	229.66	18372800		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.46	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	140.73	11258400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	23.77	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	27.23	2178400		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	162.89	13031200		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	113.5	9080000		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	86.79	6943200		7160000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755884	1103389-029B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 4:47:0		8000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	291.47	2331760		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	152.36	1218880		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.27	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	150.87	1206960		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	29.83	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	34.1	272800		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	139.11	1112880		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	116.77	934160		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	87.19	697520		716000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755885	1103389-030B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 5:27:0		8000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	601.21	4809680		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	431.06	3448480		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.01	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	165.41	1323280		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	35.08	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	40.09	320720		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	170.15	1361200		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	125.32	1002560		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.18	721440		716000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755886	1103389-031B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 6:08:0		8000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	381.9	3055200		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	233.83	1870640		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.91	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	162.4	1299200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	32.62	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	37.53	300240		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	148.07	1184560		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	124.87	998960		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.09	712720		716000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755887	1103389-032B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 6:47:0		8000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	814.69	6517520		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	612.99	4903920		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.21	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	182.9	1463200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	36.52	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	41.73	333840		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	201.7	1613600		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	141.17	1129360		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.13	761040		716000	0	0	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755888	1103389-033B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 7:28:0		40	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	818.9	32756		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	666.33	26653.2		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.59	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	793.67	31746.8		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	630.99	25239.6		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	635.58	25423.2		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	152.57	6102.8		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	158.09	6323.6		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.9	3876		3580	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755889	1103389-034B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 8:09:0		40	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1294.29	51771.6		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1126.88	45075.2		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.4	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	600.14	24005.6		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	443.85	17754		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	448.25	17930		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	167.41	6696.4		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	151.89	6075.6		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	97.57	3902.8		3580	0	0	0	0	0	109%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755890	1103389-035B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 8:49:0		40	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1538.08	61523.2		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1199.2	47968		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.26	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	785.64	31425.6		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	619.7	24788		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	623.96	24958.4		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	338.88	13555.2		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	161.68	6467.2		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	98.24	3929.6		3580	0	0	0	0	0	110%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755891	1103389-038B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 11:02:		40	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	344.7	13788		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	196.35	7854		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.11	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	154.88	6195.2		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	23.36	0		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	27.47	1098.8		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	148.35	5934		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	127.41	5096.4		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.8	3632		3580	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755892	MBLK(2) 4/1/11	MA_APH	MBLK	\1\DATA\041111\4/11/2011 11:45:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	98.08	98.08		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-12.23	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.22	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	157.12	157.12		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	29.02	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	33.24	33.24		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	110.31	110.31		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	123.88	123.88		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	87.95	87.95		89.5	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755893	1103609-001A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041111\	4/12/2011 12:26:	4000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	716.59	2866360		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	509.55	2038200		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.79	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	171.73	686920		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	29.79	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	34.58	138320		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	207.04	828160		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	137.15	548600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.91	383640		358000	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755894	1103609-001ADUP	MA_APH	DUP	\1\DATA\041111\	4/12/2011 1:07:0	4000	R39776		0	755893	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	709.04	2836160		0	0	2866360	0	0	0	0%	0	0	1%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	501.49	2005960		0	0	2038200	468000	468000	0	0%	0	0	2%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.75	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	172.96	691840		0	0	686920	0	0	0	0%	0	0	1%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	30.61	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	35.36	141440		0	0	138320	0	0	0	0%	0	0	2%	B
non C5-C8 - TOTAL	A	µg/m³	207.55	830200		0	0	828160	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	137.6	550400		0	0	548600	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	50000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.04	380160		358000	0	383640	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755941	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\041111\4/12/2011 5:56:0		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	144	144		117	0	0	0	0	0	123%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	158.41	158.41		133	0	0	0	0	0	119%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	276.78	276.78		249	0	0	0	0	0	111%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.54	88.54		89.5	0	0	0	0	0	99%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39813

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756992	BFB 50cc voa020211c	BFB_TUNE	TUNE	\1\DATA\041311	4/13/2011 3:47:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.7	0.7		0	0	0	0	0	0	0%	0	2	0%	
174	M		90.6	90.6		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.5	7.5		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.2	97.2		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		18.2	18.2		0	0	0	0	0	0	0%	8	40	0%	
75	M		48.3	48.3		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756903	APH CCV 150cc vo	MA_APH	CCV	\1\DATA\041311	4/13/2011 4:29:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	190.11	190.11		222	0	0	0	0	0	86%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	197.18	197.18		185	0	0	0	0	0	107%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	282.56	282.56		281	0	0	0	0	0	101%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	87.09	87.09		89.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756904	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\041311\4/13/2011 5:11:0		1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	121.54	121.54		117	0	0	0	0	0	104%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	145.65	145.65		133	0	0	0	0	0	110%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	260.87	260.87		249	0	0	0	0	0	105%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	86.93	86.93		89.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756896	MBLK 4/13/11	MA_APH	MBLK	\1\DATA\041311\4/13/2011 5:55:0		1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	92.06	92.06		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-18.54	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.3	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	149.75	149.75		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	24.51	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	27.81	27.81		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	110.6	110.6		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	121.94	121.94		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	84.8	84.8		89.5	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756897	1103609-004A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041311	4/13/2011 6:37:0	400	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	2534.01	1013604		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	2131.94	852776		0	0	0	46800	46800	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.46	0		0	0	0	53200	53200	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	340.83	136332		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	124.46	0		0	0	0	99600	99600	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	134.92	53968		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	402.07	160828		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	205.91	82364		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.04	36016		35800	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756898	1103609-004ADUP	MA_APH	DUP	\1\DATA\041311	4/13/2011 7:18:0	400	R39813		0	756897	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	2518.06	1007224		0	0	1013604	0	0	0	0%	0	0	1%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	2115.62	846248		0	0	852776	46800	46800	0	0%	0	0	1%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.75	0		0	0	0	53200	53200	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	349.46	139784		0	0	136332	0	0	0	0%	0	0	3%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	126.87	0		0	0	0	99600	99600	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	137.62	55048		0	0	53968	0	0	0	0%	0	0	2%	B
non C5-C8 - TOTAL	A	µg/m³	402.44	160976		0	0	160828	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	211.84	84736		0	0	82364	0	0	0	0%	0	0	3%	B
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	5000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.34	36136		35800	0	36016	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756899	1103389-036B (Container-1 of 1)	MA_APH	SAMP	\1\DATA\041311	4/14/2011 11:11:	1000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	331.16	331160		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	168.02	168020		0	0	0	117000	117000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.89	0		0	0	0	133000	133000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	234.19	234190		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	51.58	0		0	0	0	249000	249000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	56.47	56470		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	163.14	163140		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	177.72	177720		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	12500		12500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.01	90010		89500	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756900	1103609-017A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041311	4/14/2011 12:35:	1000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	426.24	426240		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	211.85	211850		0	0	0	117000	117000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.72	0		0	0	0	133000	133000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	272.9	272900		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	54.5	0		0	0	0	249000	249000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	61.22	61220		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	214.39	214390		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	211.68	211680		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	12500		12500	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756900	1103609-017A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041311	4/14/2011 12:35:	1000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	93.01	93010		89500	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756901	1103389-037B (Container-1 of 1)	MA_APH	SAMP	\1\DATA\041311	4/14/2011 2:00:0	4000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1501.63	6006520		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1275.11	5100440		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.38	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	231.78	927120		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	44.55	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	49.93	199720		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	226.52	906080		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	181.85	727400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.95	371800		358000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756905	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\041311	4/14/2011 3:46:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	155.36	155.36		117	0	0	0	0	0	133%	70	130	0%	S
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	179.16	179.16		133	0	0	0	0	0	135%	70	130	0%	S
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756905	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\041311'4/14/2011 3:46:0		1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	322.01	322.01		249	0	0	0	0	0	129%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.67	91.67		89.5	0	0	0	0	0	102%	70	130	0%	

Spikes and Surrogates Report

RunID: VOA1_110409A **Analyst:** Michael Truchan

RunNo: 39774

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755787	MASS APH L1 20cc	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.6	100.11%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755788	MASS APH L2 40cc	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	85.08	95.06%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755789	MASS APH L3 48cc	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	83.79	93.62%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755790	MASS APH L4 60cc	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	83.5	93.30%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755791	MASS APH L5 80cc	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	85.04	95.02%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755792	MASS APH L6 125c	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	87.34	97.59%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755793	MASS APH L7 200c	MA_APH	ICAL	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	96.81	108.17%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755795	APH CCV 150cc vo	MA_APH	CCV	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	90.66	101.30%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755796	APH RLVS 20cc vo	MA_APH	RLVS	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	96.04	107.31%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110409A **Analyst:** Michael Truchan

RunNo: 39774

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755797	1103389-001B	MA_APH	SAMP	R39774	80

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160	7636.8	106.66%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755798	1103389-002B	MA_APH	SAMP	R39774	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580000	3714400	103.75%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755799	1103389-002BDUP	MA_APH	DUP	R39774	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580000	3642400	101.74%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755800	1103389-003B	MA_APH	SAMP	R39774	200

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	17900	19432	108.56%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755801	1103389-004B	MA_APH	SAMP	R39774	2000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	179000	193540	108.12%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755802	1103389-005B	MA_APH	SAMP	R39774	2000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	179000	192260	107.41%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755803	1103389-006B	MA_APH	SAMP	R39774	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1790000	1985200	110.91%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755804	1103389-007B	MA_APH	SAMP	R39774	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1790000	1916200	107.05%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755805	1103389-008B	MA_APH	SAMP	R39774	10000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	895000	950500	106.20%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110409A **Analyst:** Michael Truchan

RunNo: 39774

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755806	1103389-009B	MA_APH	SAMP	R39774	10000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	895000	954000	106.59%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755807	1103389-010B	MA_APH	SAMP	R39774	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7368800	102.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755808	1103389-012B	MA_APH	SAMP	R39774	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	143200	172080	120.17%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755809	1103389-013B	MA_APH	SAMP	R39774	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3872	108.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755810	1103389-014B	MA_APH	SAMP	R39774	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	143200	169312	118.23%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755811	APH RLVS 20cc vo	MA_APH	RLVS	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.43	99.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755812	MBLK 4/09/11	MA_APH	MBLK	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.32	99.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755813	MBLK 4/10/11	MA_APH	MBLK	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.7	99.11%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755814	1103389-011B	MA_APH	SAMP	R39774	800

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	71600	73648	102.86%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110409A **Analyst:** Michael Truchan

RunNo: 39774

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755817	1103389-016B	MA_APH	SAMP	R39774	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	143200	153632	107.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755818	1103389-017B	MA_APH	SAMP	R39774	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	143200	154880	108.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755819	1103389-018B	MA_APH	SAMP	R39774	10000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	895000	967000	108.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755820	1103389-019B	MA_APH	SAMP	R39774	800

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	71600	76704	107.13%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755821	1103389-020B	MA_APH	SAMP	R39774	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	780960	109.07%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755822	1103389-021B	MA_APH	SAMP	R39774	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	15136000	105.70%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755823	1103389-022B	MA_APH	SAMP	R39774	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7456000	104.13%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755824	1103389-023B	MA_APH	SAMP	R39774	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7512000	104.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755825	1103389-024B	MA_APH	SAMP	R39774	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7530400	105.17%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110409A **Analyst:** Michael Truchan

RunNo: 39774

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755826	APH RLVS 20cc vo	MA_APH	RLVS	R39774	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.96	99.40%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755862	1103389-015B	MA_APH	SAMP	R39774	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3952.4	110.40%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755863	1103389-015BDUP	MA_APH	DUP	R39774	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3956.4	110.51%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755878	MBLK 4/11/11	MA_APH	MBLK	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.2	99.66%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755879	1103389-025B	MA_APH	SAMP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7388800	103.20%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755880	1103389-025BDUP	MA_APH	DUP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7282400	101.71%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755881	1103389-026B	MA_APH	SAMP	R39776	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	14411200	100.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755882	1103389-027B	MA_APH	SAMP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7050400	98.47%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755883	1103389-028B	MA_APH	SAMP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	6943200	96.97%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755884	1103389-029B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	697520	97.42%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755885	1103389-030B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	721440	100.76%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755886	1103389-031B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	712720	99.54%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755887	1103389-032B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	761040	106.29%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755888	1103389-033B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3876	108.27%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755889	1103389-034B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3902.8	109.02%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755890	1103389-035B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3929.6	109.77%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755891	1103389-038B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3632	101.45%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755892	MBLK(2) 4/1/11	MA_APH	MBLK	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	87.95	98.27%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755893	1103609-001A	MA_APH	SAMP	R39776	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	383640	107.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755894	1103609-001ADUP	MA_APH	DUP	R39776	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	380160	106.19%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755895	1103609-002A	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3678	102.74%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755896	1103609-003A	MA_APH	SAMP	R39776	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	15230400	106.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755897	1103609-005A	MA_APH	SAMP	R39776	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580000	3868000	108.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755898	1103609-006A	MA_APH	SAMP	R39776	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	368440	102.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755899	1103609-007A	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	750960	104.88%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755938	APH CCV 150cc vo	MA_APH	CCV	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.92	100.47%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755939	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.33	99.81%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755941	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.54	98.93%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110413A **Analyst:** Michael Truchan

RunNo: 39813

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
756896	MBLK 4/13/11	MA_APH	MBLK	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	84.8	94.75%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756897	1103609-004A	MA_APH	SAMP	R39813	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	35800	36016	100.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756898	1103609-004ADUP	MA_APH	DUP	R39813	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	35800	36136	100.94%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756899	1103389-036B	MA_APH	SAMP	R39813	1000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89500	90010	100.57%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756900	1103609-017A	MA_APH	SAMP	R39813	1000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89500	93010	103.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756901	1103389-037B	MA_APH	SAMP	R39813	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	371800	103.85%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756903	APH CCV 150cc vo	MA_APH	CCV	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	87.09	97.31%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756904	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	86.93	97.13%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756905	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	91.67	102.42%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110409A **Analyst:** Michael Truchan

RunNo: 39774

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755795	APH CCV 150cc vo	MA_APH	CCV	R39774	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	281	347.6	123.70%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	185	237.24	128.24%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	222	238.72	107.53%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755796	APH RLVS 20cc vo	MA_APH	RLVS	R39774	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	105.16	42.23%	70	130	*	S
☑	C9-C10 Aromatic HC - TOTAL	133	4.04	3.04%	70	130	*	S
☑	C5-C8 Aliphatic HC - TOTAL	117	96.45	82.44%	70	130		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755811	APH RLVS 20cc vo	MA_APH	RLVS	R39774	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	292.22	117.36%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	163	122.56%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	146.75	125.43%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755826	APH RLVS 20cc vo	MA_APH	RLVS	R39774	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	254.59	102.24%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	138.4	104.06%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	124.94	106.79%	70	130		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755938	APH CCV 150cc vo	MA_APH	CCV	R39776	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	281	303.21	107.90%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	185	206.45	111.59%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	222	207.54	93.49%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755939	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	302.45	121.47%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	172.98	130.06%	70	130	*	S
☑	C5-C8 Aliphatic HC - TOTAL	117	145.48	124.34%	70	130		

Total Recoveries Out: 1

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755941	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	276.78	111.16%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	158.41	119.11%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	144	123.08%	70	130		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: VOA1_110413A **Analyst:** Michael Truchan

RunNo: 39813

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756903	APH CCV 150cc vo	MA_APH	CCV	R39813	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	281	282.56	100.56%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	185	197.18	106.58%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	222	190.11	85.64%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756904	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	260.87	104.77%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	145.65	109.51%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	121.54	103.88%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756905	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	322.01	129.32%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	179.16	134.71%	70	130	*	S
☑	C5-C8 Aliphatic HC - TOTAL	117	155.36	132.79%	70	130	*	S

Total Recoveries Out: 2

Method Blank Contamination Report

Blank ID: MBLK 4/09/11
SeqNo: 755812
Analysis Date: 4/10/2011 9:32:00 AM
Analyst: Michael Truchan

Batch ID: R39774
TestCode: MA_APH
RunID: VOA1_110409A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
MASS APH L1 20cc	755787	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 1:59:00 PM	1
MASS APH L2 40cc	755788	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 2:40:00 PM	1
MASS APH L3 48cc	755789	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 3:21:00 PM	1
MASS APH L4 60cc	755790	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 4:02:00 PM	1
MASS APH L5 80cc	755791	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 4:44:00 PM	1
MASS APH L6 125c	755792	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 5:26:00 PM	1
MASS APH L7 200c	755793	MA_APH	ICAL	VOA1_110409A	R39774	4/9/2011 6:08:00 PM	1
APH CCV 150cc vo	755795	MA_APH	CCV	VOA1_110409A	R39774	4/9/2011 7:30:00 PM	1
APH RLVS 20cc vo	755796	MA_APH	RLVS	VOA1_110409A	R39774	4/9/2011 8:11:00 PM	1
1103389-001B	755797	MA_APH	SAMP	VOA1_110409A	R39774	4/9/2011 9:35:00 PM	80
1103389-002B	755798	MA_APH	SAMP	VOA1_110409A	R39774	4/9/2011 10:16:00 PM	40000
1103389-002BDUP	755799	MA_APH	DUP	VOA1_110409A	R39774	4/9/2011 10:57:00 PM	40000
1103389-003B	755800	MA_APH	SAMP	VOA1_110409A	R39774	4/9/2011 11:41:00 PM	200
1103389-004B	755801	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 12:23:00 AM	2000
1103389-005B	755802	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 1:05:00 AM	2000
1103389-006B	755803	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 1:47:00 AM	20000
1103389-007B	755804	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 7:15:00 AM	20000
1103389-008B	755805	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 2:28:00 AM	10000
1103389-009B	755806	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 3:09:00 AM	10000
1103389-010B	755807	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 3:49:00 AM	80000
1103389-012B	755808	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 5:12:00 AM	1600
1103389-013B	755809	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 5:53:00 AM	40
1103389-014B	755810	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 6:34:00 AM	1600
APH RLVS 20cc vo	755811	MA_APH	RLVS	VOA1_110409A	R39774	4/10/2011 8:14:00 AM	1
1103389-019B	755820	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 3:04:00 PM	800
1103389-020B	755821	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 3:47:00 PM	8000
1103389-021B	755822	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 4:28:00 PM	160000
1103389-022B	755823	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 5:09:00 PM	80000
1103389-023B	755824	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 5:50:00 PM	80000
1103389-024B	755825	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 6:31:00 PM	80000
BFB 50cc voa020211c	755829	BFB_TUNE	TUNE	VOA1_110409A	R39774	4/9/2011 1:17:00 PM	1
BFB 50cc voa020211c	755830	BFB_TUNE	TUNE	VOA1_110409A	R39774	4/9/2011 6:48:00 PM	1

Method Blank Contamination Report

Blank ID:	MBLK 4/10/11	**Batch ID:**	R39774
SeqNo:	755813	**TestCode:**	MA_APH
Analysis Date:	4/10/2011 10:15:00 AM	**RunID:**	VOA1_110409A
Analyst:	Michael Truchan	**InstrumentID:**	VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103389-011B	755814	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 10:57:00 AM	800
1103389-016B	755817	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 1:00:00 PM	1600
1103389-017B	755818	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 1:42:00 PM	1600
1103389-018B	755819	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 2:23:00 PM	10000
APH RLVS 20cc vo	755826	MA_APH	RLVS	VOA1_110409A	R39774	4/10/2011 7:54:00 PM	1
1103389-015B	755862	MA_APH	SAMP	VOA1_110409A	R39774	4/10/2011 11:38:00 AM	40
1103389-015BDUP	755863	MA_APH	DUP	VOA1_110409A	R39774	4/10/2011 12:19:00 PM	40

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103389-025B	755879	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 1:24:00 PM	80000
1103389-025BDUP	755880	MA_APH	DUP	VOA1_110411A	R39776	4/11/2011 2:05:00 PM	80000
1103389-026B	755881	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 2:45:00 PM	160000
1103389-027B	755882	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 3:25:00 PM	80000
1103389-028B	755883	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 4:06:00 PM	80000
1103389-029B	755884	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 4:47:00 PM	8000
1103389-030B	755885	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 5:27:00 PM	8000
1103389-031B	755886	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 6:08:00 PM	8000
1103389-032B	755887	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 6:47:00 PM	8000
1103389-033B	755888	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 7:28:00 PM	40
1103389-034B	755889	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 8:09:00 PM	40
1103389-035B	755890	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 8:49:00 PM	40
1103389-038B	755891	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 11:02:00 PM	40
BFB 50cc voa020211c	755933	BFB_TUNE	TUNE	VOA1_110411A	R39776	4/11/2011 10:37:00 AM	1
APH CCV 150cc vo	755938	MA_APH	CCV	VOA1_110411A	R39776	4/11/2011 11:19:00 AM	1
APH RLVS 20cc vo	755939	MA_APH	RLVS	VOA1_110411A	R39776	4/11/2011 12:00:00 PM	1

Method Blank Contamination Report

Blank ID: MBLK 4/13/11
SeqNo: 756896
Analysis Date: 4/13/2011 5:55:00 PM
Analyst: Michael Truchan

Batch ID: R39813
TestCode: MA_APH
RunID: VOA1_110413A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103609-004A	756897	MA_APH	SAMP	VOA1_110413A	R39813	4/13/2011 6:37:00 PM	400
1103609-004ADUP	756898	MA_APH	DUP	VOA1_110413A	R39813	4/13/2011 7:18:00 PM	400
1103389-036B	756899	MA_APH	SAMP	VOA1_110413A	R39813	4/14/2011 11:11:00 AM	1000
1103609-017A	756900	MA_APH	SAMP	VOA1_110413A	R39813	4/14/2011 12:35:00 PM	1000
1103389-037B	756901	MA_APH	SAMP	VOA1_110413A	R39813	4/14/2011 2:00:00 PM	4000
APH CCV 150cc vo	756903	MA_APH	CCV	VOA1_110413A	R39813	4/13/2011 4:29:00 PM	1
APH RLVS 20cc vo	756904	MA_APH	RLVS	VOA1_110413A	R39813	4/13/2011 5:11:00 PM	1
APH RLVS 20cc vo	756905	MA_APH	RLVS	VOA1_110413A	R39813	4/14/2011 3:46:00 PM	1
BFB 50cc voa020211c	756992	BFB_TUNE	TUNE	VOA1_110413A	R39813	4/13/2011 3:47:00 PM	1

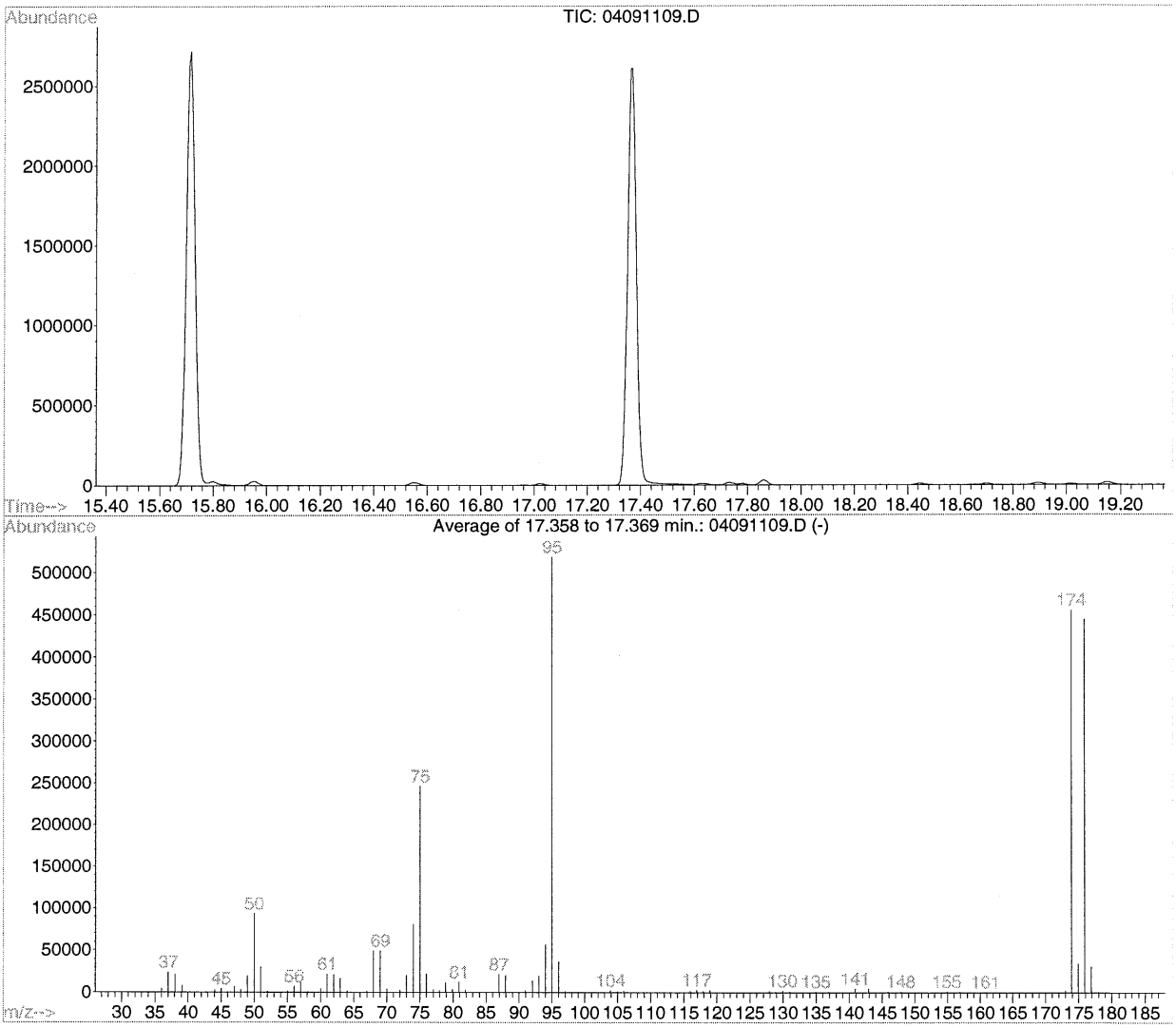
Injection Log

Directory: C:\HPCHEM\1\DATA\040911

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04091101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	9 Apr 2011 13:17
2	2	04091102.d	1.	MASS APH L1 20cc 030111a	ICAL MA_APH	9 Apr 2011 13:59
3	3	04091103.d	1.	MASS APH L2 40cc 030111a	ICAL MA_APH	9 Apr 2011 14:40
4	4	04091104.d	1.	MASS APH L3 48cc 030111a	ICAL MA_APH	9 Apr 2011 15:21
5	5	04091105.d	1.	MASS APH L4 60cc 030111a	ICAL MA_APH	9 Apr 2011 16:02
6	6	04091106.d	1.	MASS APH L5 80cc 030111a	ICAL MA_APH	9 Apr 2011 16:44
7	7	04091107.d	1.	MASS APH L6 125cc 030111a	ICAL MA_APH	9 Apr 2011 17:26
8	8	04091108.d	1.	MASS APH L7 200cc 030111a	ICAL MA_APH	9 Apr 2011 18:08
9	9	04091109.d	1.	BFB 50cc voa020211c	ical EPA_TO15	9 Apr 2011 18:48
10	10	04091110.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	9 Apr 2011 19:30
11	11	04091111.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	9 Apr 2011 20:11
12		04091112.d	1.	No MS or GC data present		
13	13	04091113.d	80.	1103389-001B	SAMP MA_APH	9 Apr 2011 21:35
14	14	04091114.d	40000.	1103389-002B	SAMP MA_APH	9 Apr 2011 22:16
15	15	04091115.d	40000.	1103389-002BDUP	DUP MA_APH	9 Apr 2011 22:57
16	16	04091116.d	200.	1103389-003B	SAMP MA_APH	9 Apr 2011 23:41
17	17	04091117.d	2000.	1103389-004B	SAMP MA_APH	10 Apr 2011 00:23
18	18	04091118.d	2000.	1103389-005B	SAMP MA_APH	10 Apr 2011 01:05
19	19	04091119.d	20000.	1103389-006B	SAMP MA_APH	10 Apr 2011 01:47
20	20	04091120.d	20000.	1103389-007B	SAMP MA_APH	10 Apr 2011 07:15
21	21	04091121.d	10000.	1103389-008B	SAMP MA_APH	10 Apr 2011 02:28
22	22	04091122.d	10000.	1103389-009B	SAMP MA_APH	10 Apr 2011 03:09
23	23	04091123.d	80000.	1103389-010B	SAMP MA_APH	10 Apr 2011 03:49
24	24	04091124.d	8000.	1103389-011B – DATA NOT used 4/15/11 MTech	SAMP MA_APH	10 Apr 2011 04:30
25	25	04091125.d	1600.	1103389-012B	SAMP MA_APH	10 Apr 2011 05:12
26	26	04091126.d	40.	1103389-013B	SAMP MA_APH	10 Apr 2011 05:53
27	27	04091127.d	1600.	1103389-014B	SAMP MA_APH	10 Apr 2011 06:34
28	11	04091128.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	10 Apr 2011 08:14
29	12	04091129.d	1.	MBLK 4/09/11	MBLK MA_APH	10 Apr 2011 09:32
30	13	04091130.d	1.	MBLK 4/10/11	MBLK MA_APH	10 Apr 2011 10:15
31	24	04091131.d	800.	1103389-011B	SAMP MA_APH	10 Apr 2011 10:57
32	28	04091132.d	40.	1103389-015B	SAMP MA_APH	10 Apr 2011 11:38
33	29	04091133.d	40.	1103389-015BDUP	DUP MA_APH	10 Apr 2011 12:19
34	29	04091134.d	1600.	1103389-016B	SAMP MA_APH	10 Apr 2011 13:00
35	30	04091135.d	1600.	1103389-017B	SAMP MA_APH	10 Apr 2011 13:42
36	31	04091136.d	10000.	1103389-018B	SAMP MA_APH	10 Apr 2011 14:23
37	32	04091137.d	800.	1103389-019B	SAMP MA_APH	10 Apr 2011 15:04
38	33	04091138.d	8000.	1103389-020B	SAMP MA_APH	10 Apr 2011 15:47
39	34	04091139.d	160000.	1103389-021B	SAMP MA_APH	10 Apr 2011 16:28
40	35	04091140.d	80000.	1103389-022B	SAMP MA_APH	10 Apr 2011 17:09
41	36	04091141.d	80000.	1103389-023B	SAMP MA_APH	10 Apr 2011 17:50
42	37	04091142.d	80000.	1103389-024B	SAMP MA_APH	10 Apr 2011 18:31
43	38	04091143.d	80000.	1103389-025B – DATA NOT used MTech 4/15/11	SAMP MA_APH	10 Apr 2011 19:12
44	11	04091144.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	10 Apr 2011 19:54

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040911\04091109.D Vial: 9
Acq On : 9 Apr 2011 6:48 pm Operator: Michael Truchan
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : ical EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3



Spectrum Information: Average of 17.358 to 17.369 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	93203	PASS
75	95	30	60	47.4	245504	PASS
95	95	100	100	100.0	517525	PASS
96	95	5	9	7.0	36123	PASS
173	174	0.00	2	0.4	1970	PASS
174	95	50	120	87.6	453568	PASS
175	174	4	9	7.5	34109	PASS
176	174	93	101	97.6	442795	PASS
177	176	5	9	6.9	30477	PASS

04091109.D 040911V1.M Wed Apr 13 19:04:31 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091110.D Vial: 10
Acq On : 9 Apr 2011 7:30 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:28 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

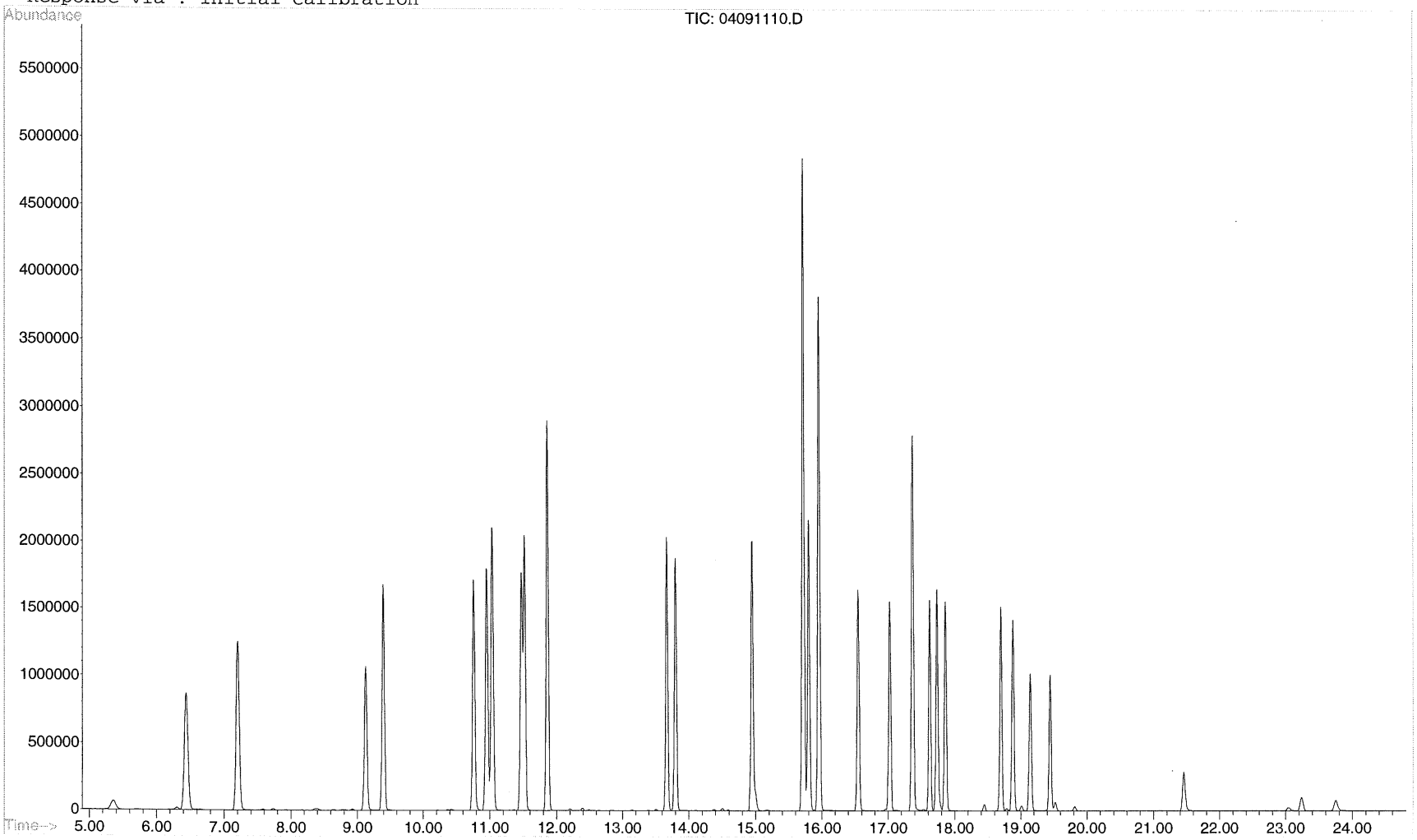
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2160019	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1284803	90.66	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.30%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	4200054	34.60	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	4232392	38.87	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	4622673	38.72	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	5471158	47.37	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	4391649	37.96	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	4310128	40.49	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	27228054m	238.72	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	4903904	46.37	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.72	TIC	10460732	110.29	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	3175751	44.12	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	3394018	44.47	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	2257292	40.92	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	840945	28.44	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	25032642m	347.60	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	402554	42.58	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	487286	50.97	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	604364	48.34	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	120463	49.75	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	384998	43.49	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	336685	51.08	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2336350m	237.24	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091110.D 040911V1.M Wed Apr 13 19:04:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091110.D Vial: 10
Acq On : 9 Apr 2011 7:30 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:28 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091113.D Vial: 13
Acq On : 9 Apr 2011 9:35 pm Operator: Michael Truchan
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:30 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

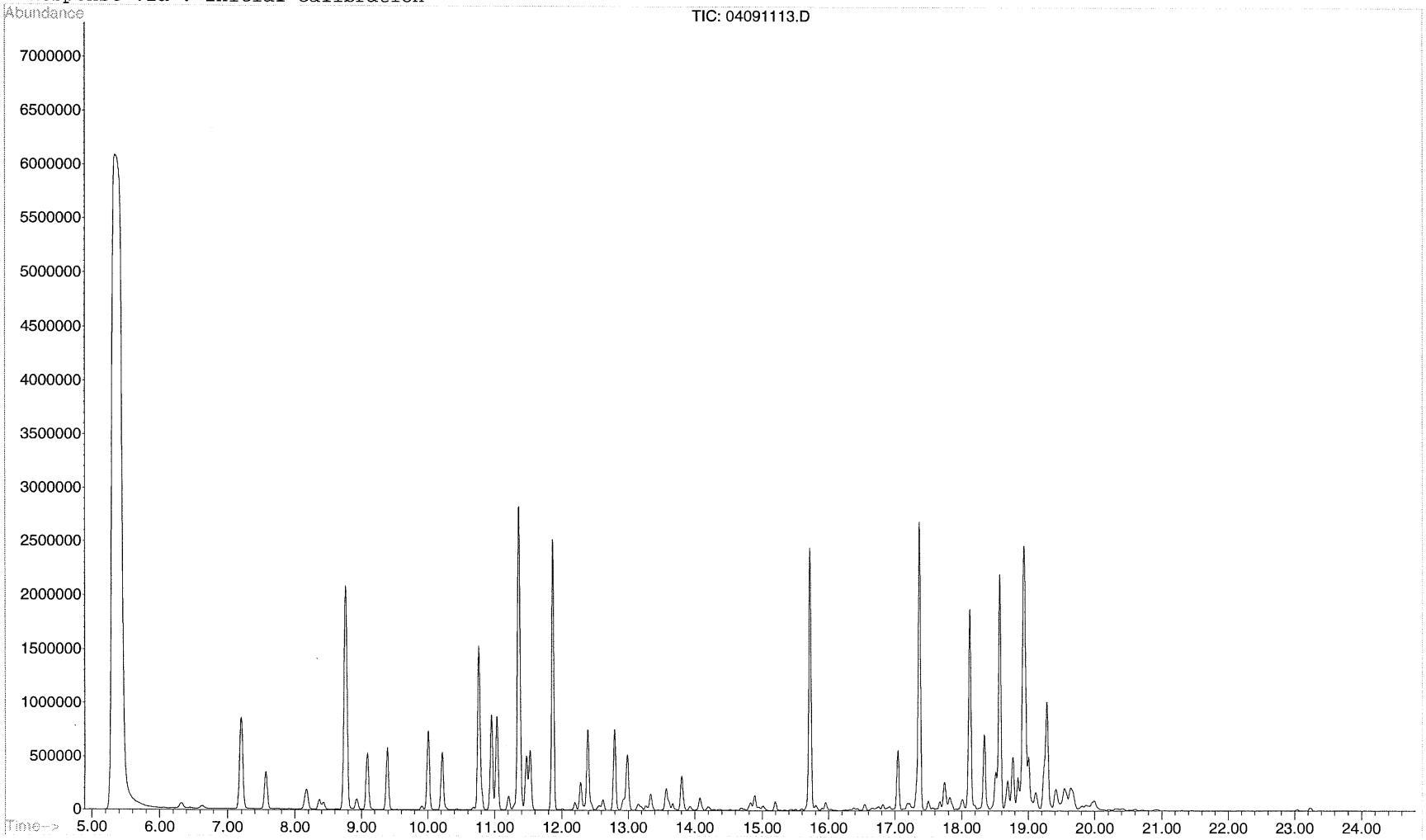
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1833576	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1148360	95.46	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.66%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.36	TIC	57866845m	507.35	ug/m3	
23) non C5-C8	6.45	TIC	27362	0.30	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	1494434	21.08	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4164199	70.18	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1255459	13.00	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5769016	56.11	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	868637	8.57	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	13579107m	159.67	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	53443276m	742.12	ug/m3	
31) non C9-C12	15.71	TIC	5717122	60.28	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	112709	1.26	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	165501	1.89	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	144902	1.79	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6622046	103.54	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	12762280m	151.80	ug/m3	
37) C9-C10 Aromatic	17.86	120	34409m	3.49	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	2607m	0.26	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	37016m	3.76	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091113.D 040911V1.M Wed Apr 13 19:05:09 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091113.D Vial: 13
Acq On : 9 Apr 2011 9:35 pm Operator: Michael Truchan
Sample : 1103389-001B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:30 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091114.D Vial: 14
Acq On : 9 Apr 2011 10:16 pm Operator: Michael Truchan
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:30 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

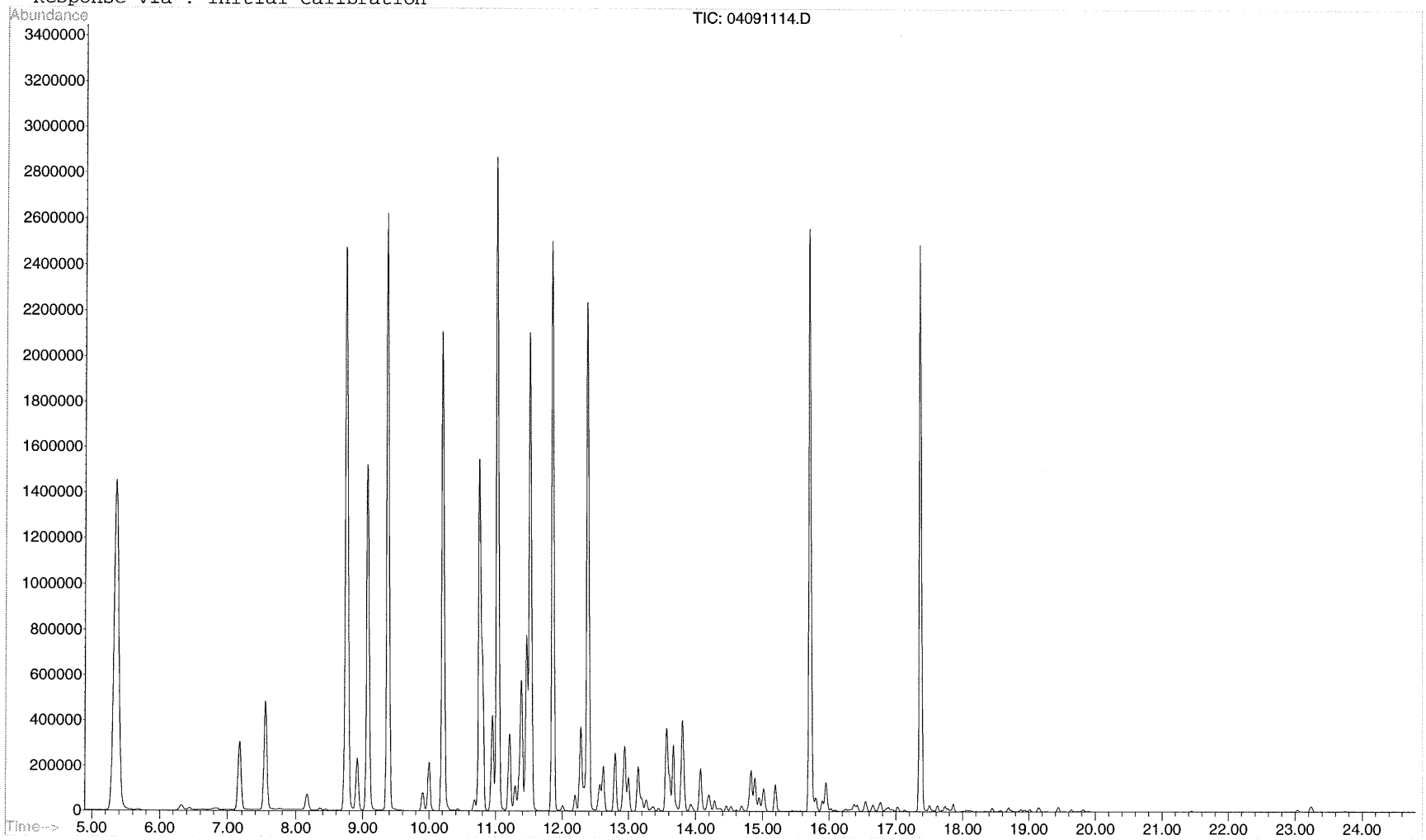
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1849836	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1127065	92.86	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.75%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.03	TIC	74739348m	655.28	ug/m3	
23) non C5-C8	6.44	TIC	29734	0.33	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	4211177	59.39	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5309003	89.47	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	1847395	19.13	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5753360	55.95	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	1146282	11.31	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	18296951m	215.15	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	13607734m	188.96	ug/m3	
31) non C9-C12	15.71	TIC	5894310	62.15	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	129917	1.45	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	309458	3.53	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	124279	1.53	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5518646	86.29	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11976610m	142.45	ug/m3	
37) C9-C10 Aromatic	17.86	120	40812m	4.14	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2882m	0.29	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	43694m	4.44	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091114.D 040911V1.M Wed Apr 13 19:05:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091114.D Vial: 14
Acq On : 9 Apr 2011 10:16 pm Operator: Michael Truchan
Sample : 1103389-002B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:30 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091115.D Vial: 15
Acq On : 9 Apr 2011 10:57 pm Operator: Michael Truchan
Sample : 1103389-002BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:31 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

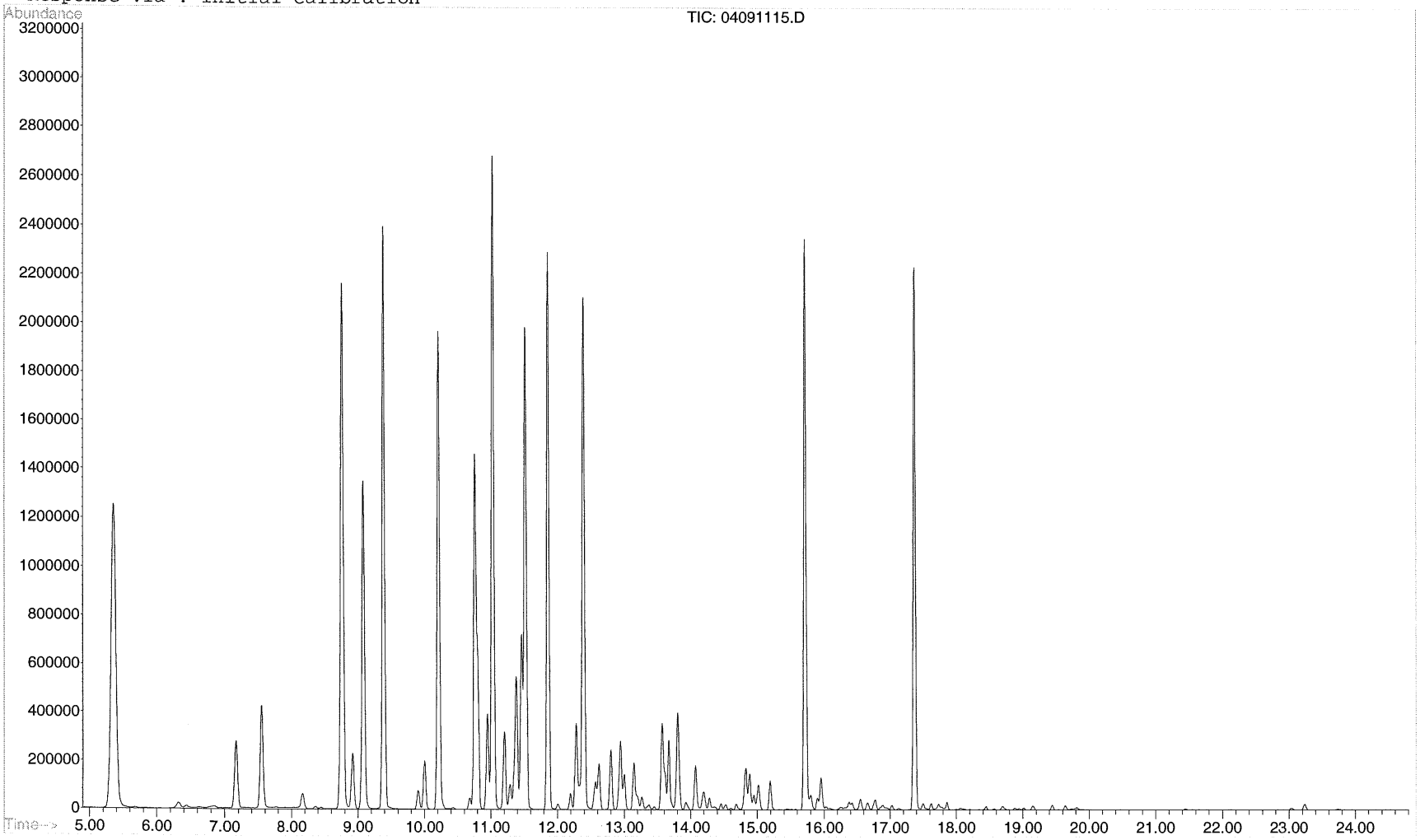
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1715887	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1025210	91.06	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.74%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.03	TIC	69467801m	609.06	ug/m3	
23) non C5-C8	6.44	TIC	27210	0.30	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	3687264	52.00	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5023565	84.66	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	1778645	18.42	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5304817	51.59	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1124255	11.10	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	16945756m	199.26	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	12665999m	175.88	ug/m3	
31) non C9-C12	15.72	TIC	5458402	57.55	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	125186	1.40	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	304383	3.48	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	116120	1.43	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5030205	78.65	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11034296m	131.24	ug/m3	
37) C9-C10 Aromatic	17.86	120	36330m	3.69	ug/m3	
38) C9-C10 Aromatic {2}	18.89	134	2265m	0.23	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	38595m	3.92	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091115.D 040911V1.M Wed Apr 13 19:05:26 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091115.D Vial: 15
Acq On : 9 Apr 2011 10:57 pm Operator: Michael Truchan
Sample : 1103389-002BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:31 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091116.D Vial: 16
Acq On : 9 Apr 2011 11:41 pm Operator: Michael Truchan
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 200.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:32 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

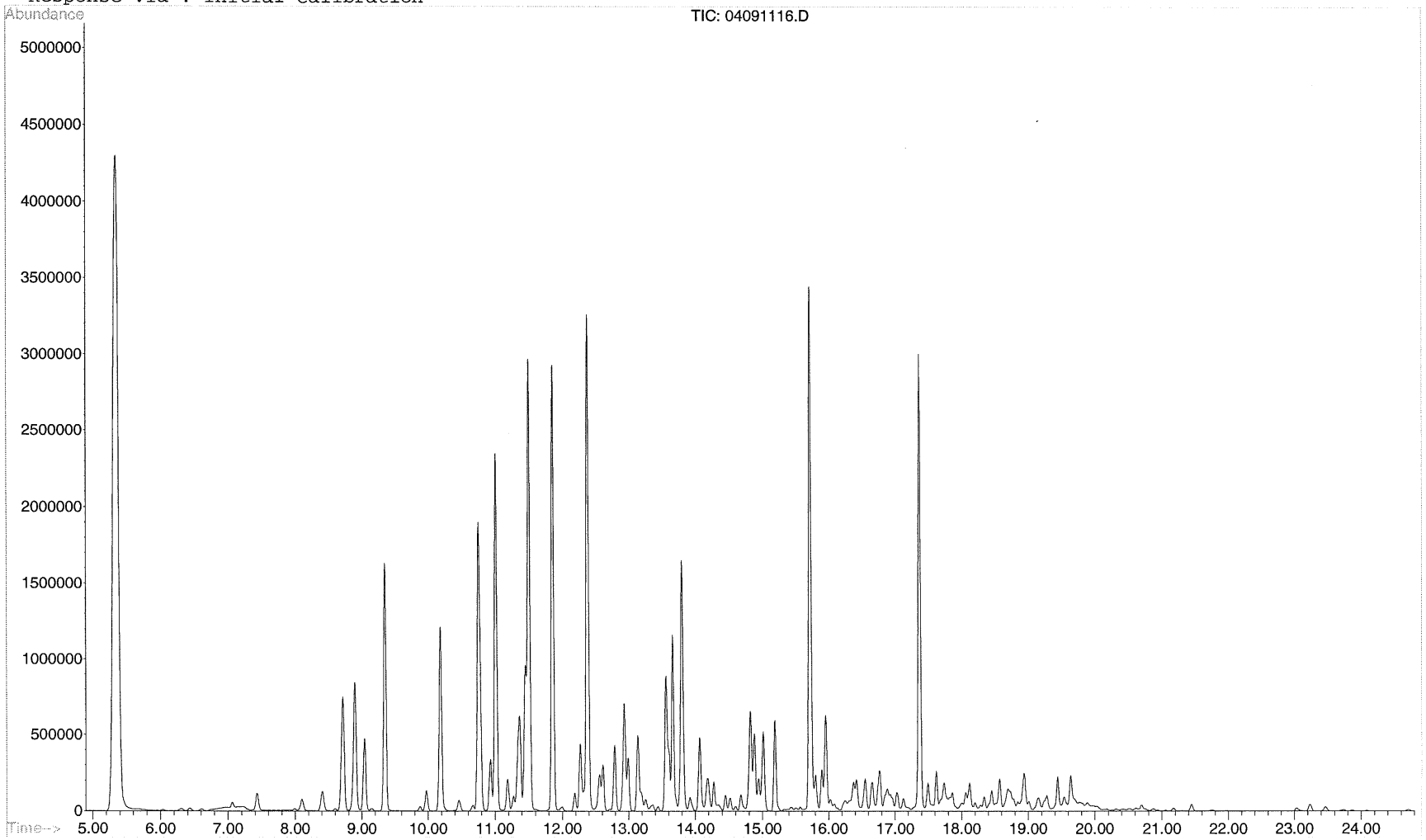
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2168597	12.50	ug/m3	0.01
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1382378	97.16	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.56%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.37	TIC	86715282m	760.28	ug/m3	
23) non C5-C8	6.43	TIC	53169	0.59	ug/m3	100
24) non C5-C8 {2}	9.15	TIC	44636	0.63	ug/m3	100
25) non C5-C8 {3}	10.75	TIC	5809487	97.90	ug/m3	100
26) non C5-C8 {4}	11.45	TIC	2142277	22.19	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6953386	67.62	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4231157	41.76	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19234112m	226.17	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	36792919m	510.91	ug/m3	
31) non C9-C12	15.72	TIC	8515053	89.78	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	487486	5.45	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	1549338	17.69	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	537634	6.63	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6969965	108.98	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	18059476m	214.80	ug/m3	
37) C9-C10 Aromatic	18.45	120	148615m	15.09	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	32079m	3.26	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	180694m	18.35	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091116.D 040911V1.M Wed Apr 13 19:05:34 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091116.D Vial: 16
Acq On : 9 Apr 2011 11:41 pm Operator: Michael Truchan
Sample : 1103389-003B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 200.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:32 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091117.D Vial: 17
Acq On : 10 Apr 2011 12:23 am Operator: Michael Truchan
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 2000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:32 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

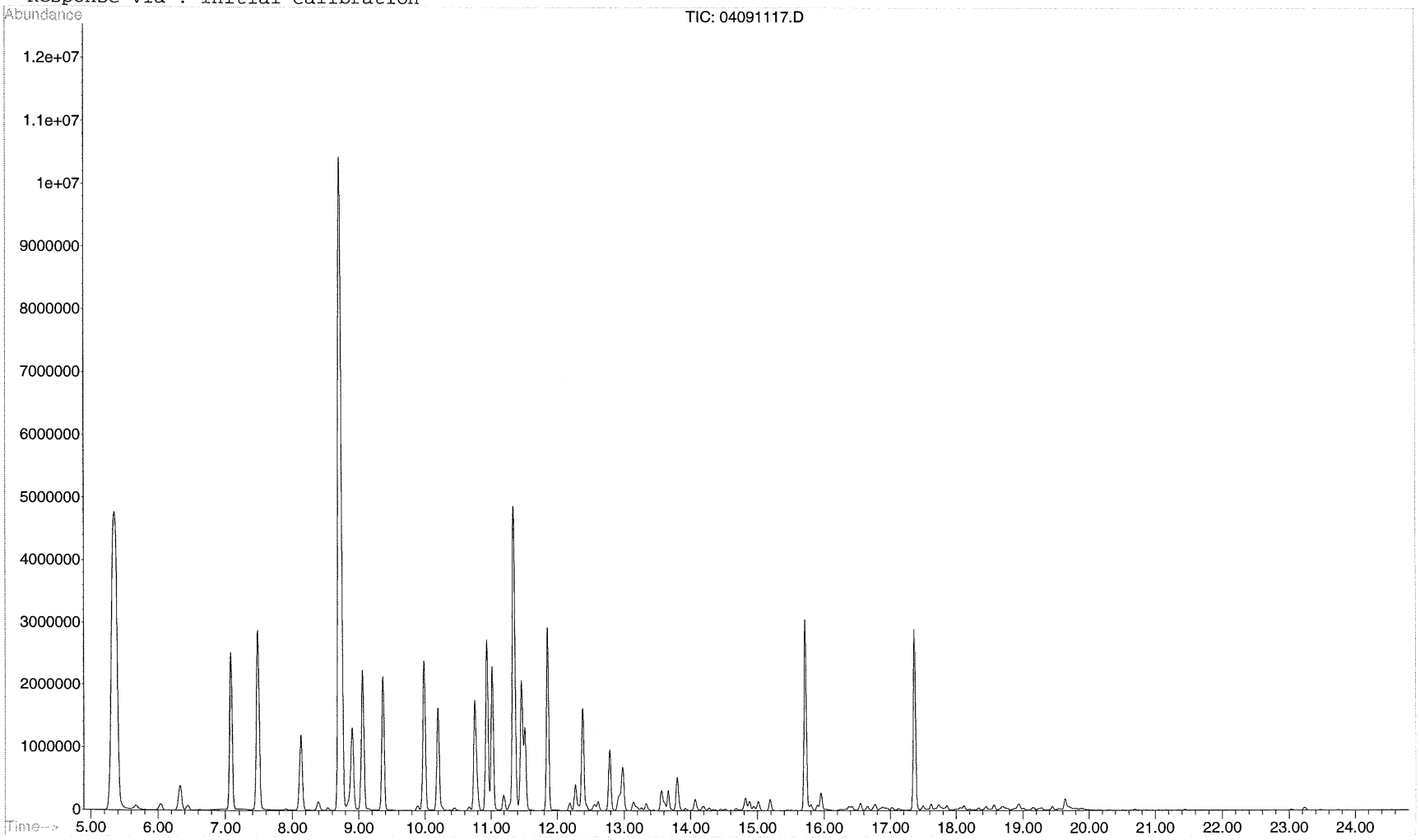
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2122421	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1347540	96.77	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.12%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.72	TIC	152142701m	1333.92	ug/m3	
23) non C5-C8	6.45	TIC	251012	2.76	ug/m3	100
24) non C5-C8 {2}	9.06	TIC	5939607	83.76	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5214229	87.87	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	5171423	53.56	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	6707984	65.24	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1409251	13.91	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	24693506m	290.36	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	22793951m	316.52	ug/m3	
31) non C9-C12	15.71	TIC	7109619	74.96	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	209236	2.34	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	653321	7.46	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	295670	3.65	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6672083	104.32	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	14939929m	177.70	ug/m3	
37) C9-C10 Aromatic	17.86	120	91499m	9.29	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	7350m	0.75	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	98849m	10.04	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091117.D 040911V1.M Wed Apr 13 19:05:38 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091117.D Vial: 17
Acq On : 10 Apr 2011 12:23 am Operator: Michael Truchan
Sample : 1103389-004B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 2000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:32 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091118.D Vial: 18
Acq On : 10 Apr 2011 1:05 am Operator: Michael Truchan
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 2000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:33 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

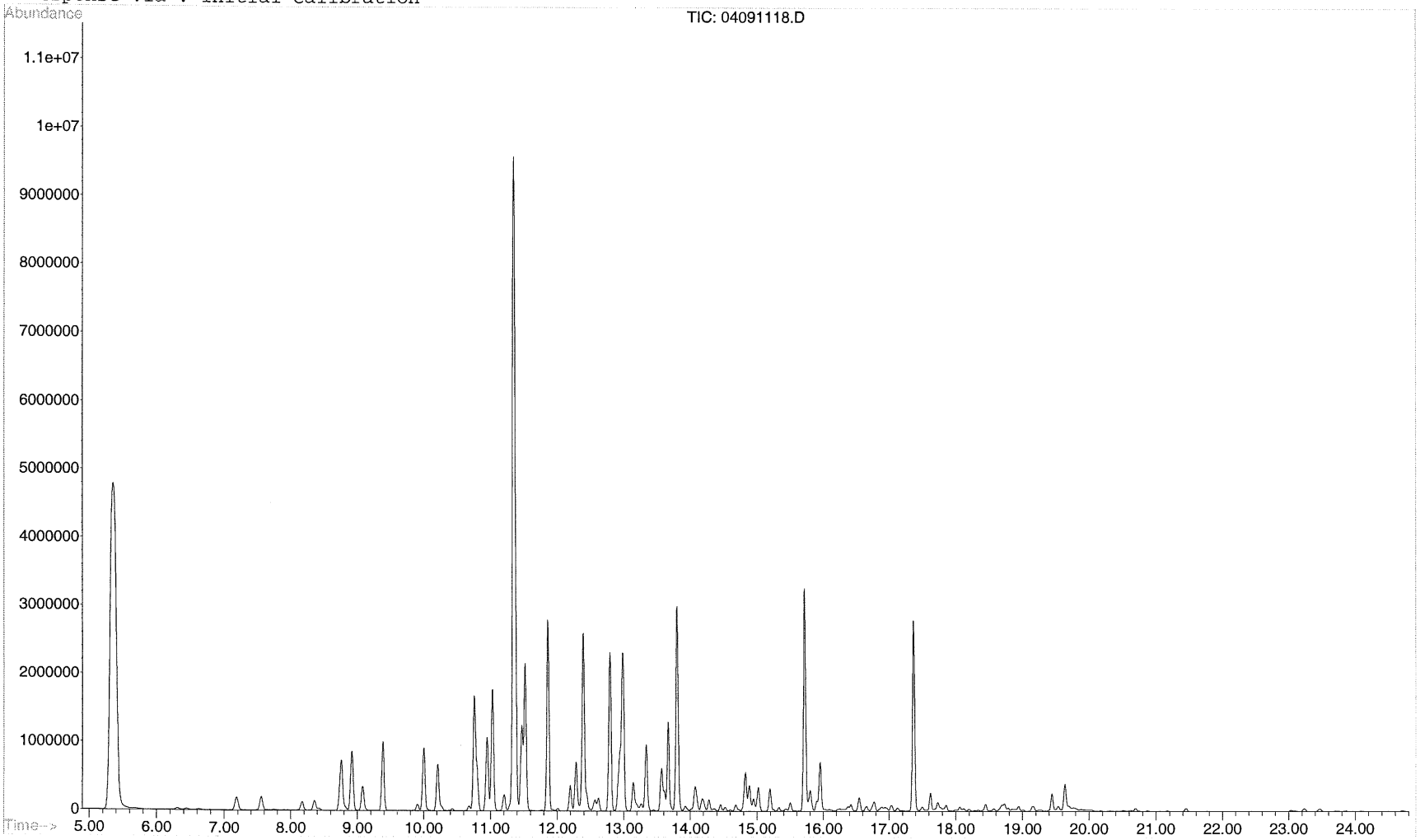
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2019231	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1273513	96.13	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 107.41%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	122932777m	1077.82	ug/m3	
23) non C5-C8	6.44	TIC	60267	0.66	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1030375	14.53	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5460223	92.02	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	2887796	29.91	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6389537	62.14	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	7228928	71.36	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	23057126m	271.12	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	27575035m	382.91	ug/m3	
31) non C9-C12	15.72	TIC	7505749	79.14	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	785676	8.79	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	1727943	19.73	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	472540	5.83	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	6365307	99.52	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	16857215m	200.50	ug/m3	
37) C9-C10 Aromatic	18.44	120	141497m	14.37	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	29690m	3.01	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	171187m	17.38	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091118.D Vial: 18
Acq On : 10 Apr 2011 1:05 am Operator: Michael Truchan
Sample : 1103389-005B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 2000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:33 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091119.D Vial: 19
Acq On : 10 Apr 2011 1:47 am Operator: Michael Truchan
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:33 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

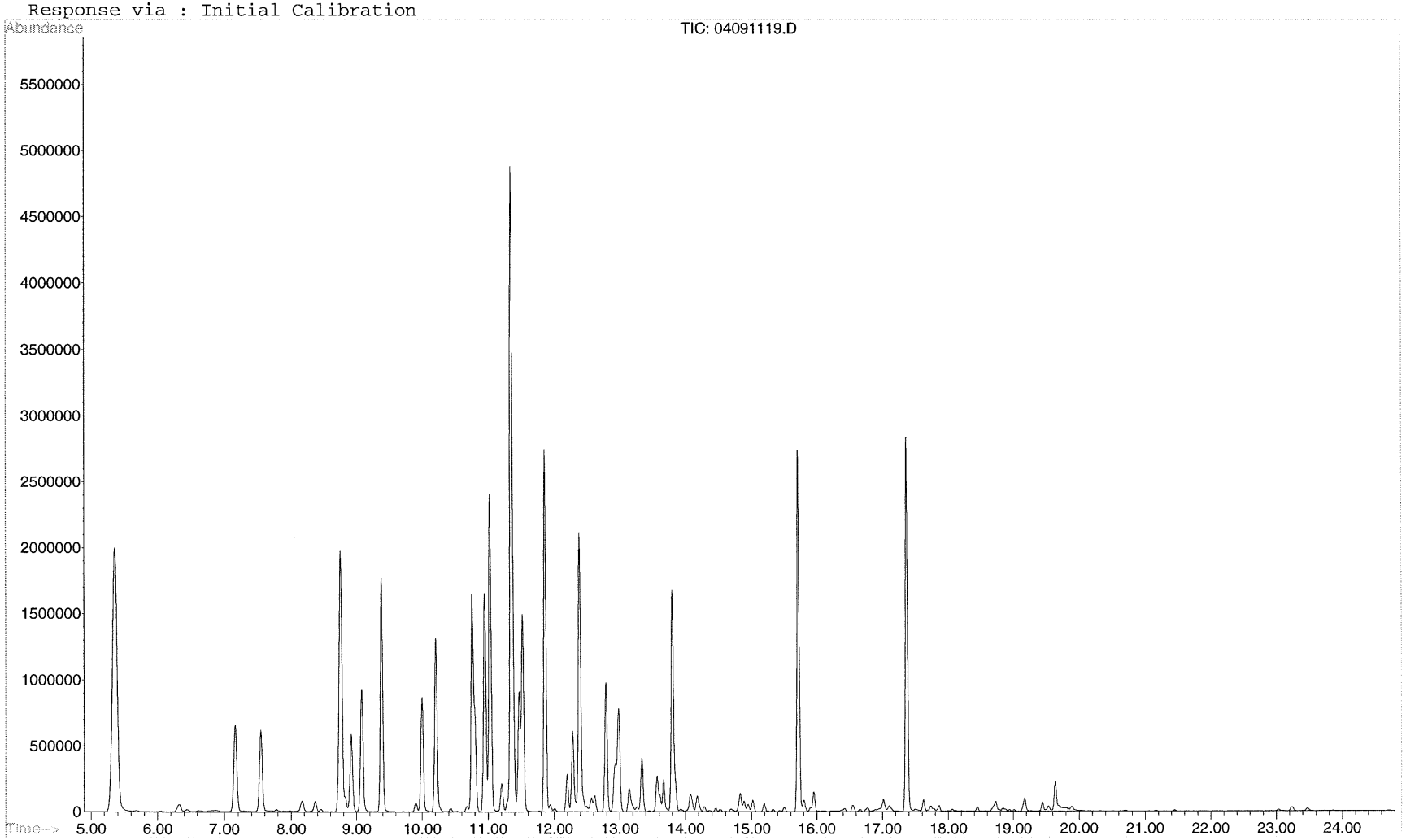
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1988990	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1295309	99.26	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 110.91%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	93778310m	822.21	ug/m3	
23) non C5-C8	6.45	TIC	44148	0.49	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2569193	36.23	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5562218	93.74	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	2321160	24.04	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6299357	61.26	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4484924	44.27	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21281000m	250.23	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	17244773m	239.46	ug/m3	
31) non C9-C12	15.72	TIC	6229342	65.68	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	223111	2.50	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	357371	4.08	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	126457	1.56	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6336401	99.07	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	13272682m	157.87	ug/m3	
37) C9-C10 Aromatic	17.86	120	59483m	6.04	ug/m3	
38) C9-C10 Aromatic {2}	18.89	134	5974m	0.61	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	65457m	6.65	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091119.D 040911V1.M Wed Apr 13 19:05:47 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091119.D Vial: 19
Acq On : 10 Apr 2011 1:47 am Operator: Michael Truchan
Sample : 1103389-006B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:33 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091121.D Vial: 21
Acq On : 10 Apr 2011 2:28 am Operator: Michael Truchan
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 10000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:34 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

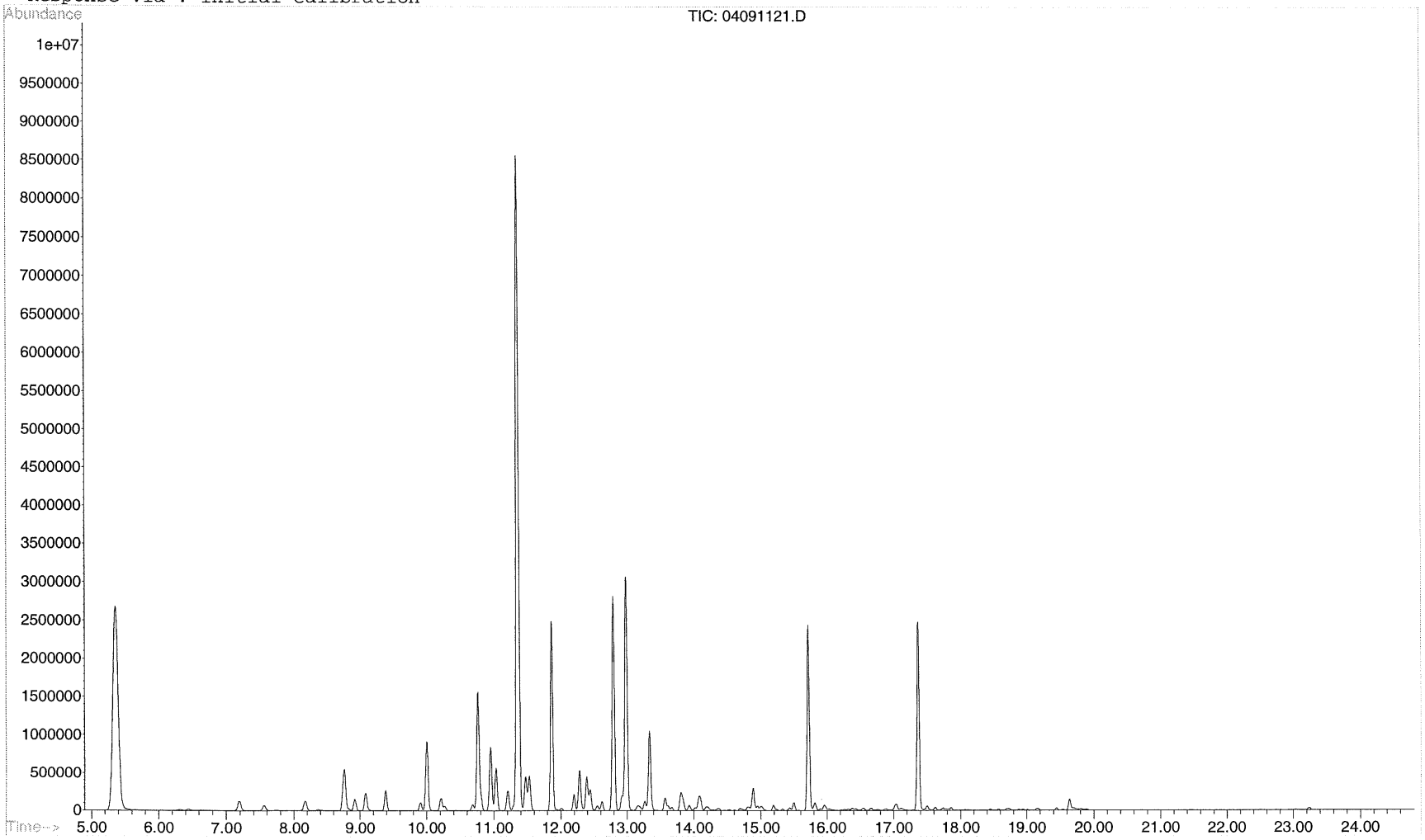
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1811060	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1129402	95.05	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.20%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	77307192m	677.79	ug/m3	
23) non C5-C8	6.44	TIC	47322	0.52	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	669304	9.44	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4232573	71.33	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1107956	11.47	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5704541	55.48	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	867231	8.56	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	12628927m	148.50	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	14994893m	208.22	ug/m3	
31) non C9-C12	15.72	TIC	5641759	59.49	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	247256	2.77	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	143782	1.64	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	93958	1.16	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5637356	88.14	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11764111m	139.93	ug/m3	
37) C9-C10 Aromatic	17.87	120	41645m	4.23	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3489m	0.35	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	45134m	4.58	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091121.D Vial: 21
Acq On : 10 Apr 2011 2:28 am Operator: Michael Truchan
Sample : 1103389-008B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 10000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:34 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091122.D Vial: 22
Acq On : 10 Apr 2011 3:09 am Operator: Michael Truchan
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 10000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:35 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

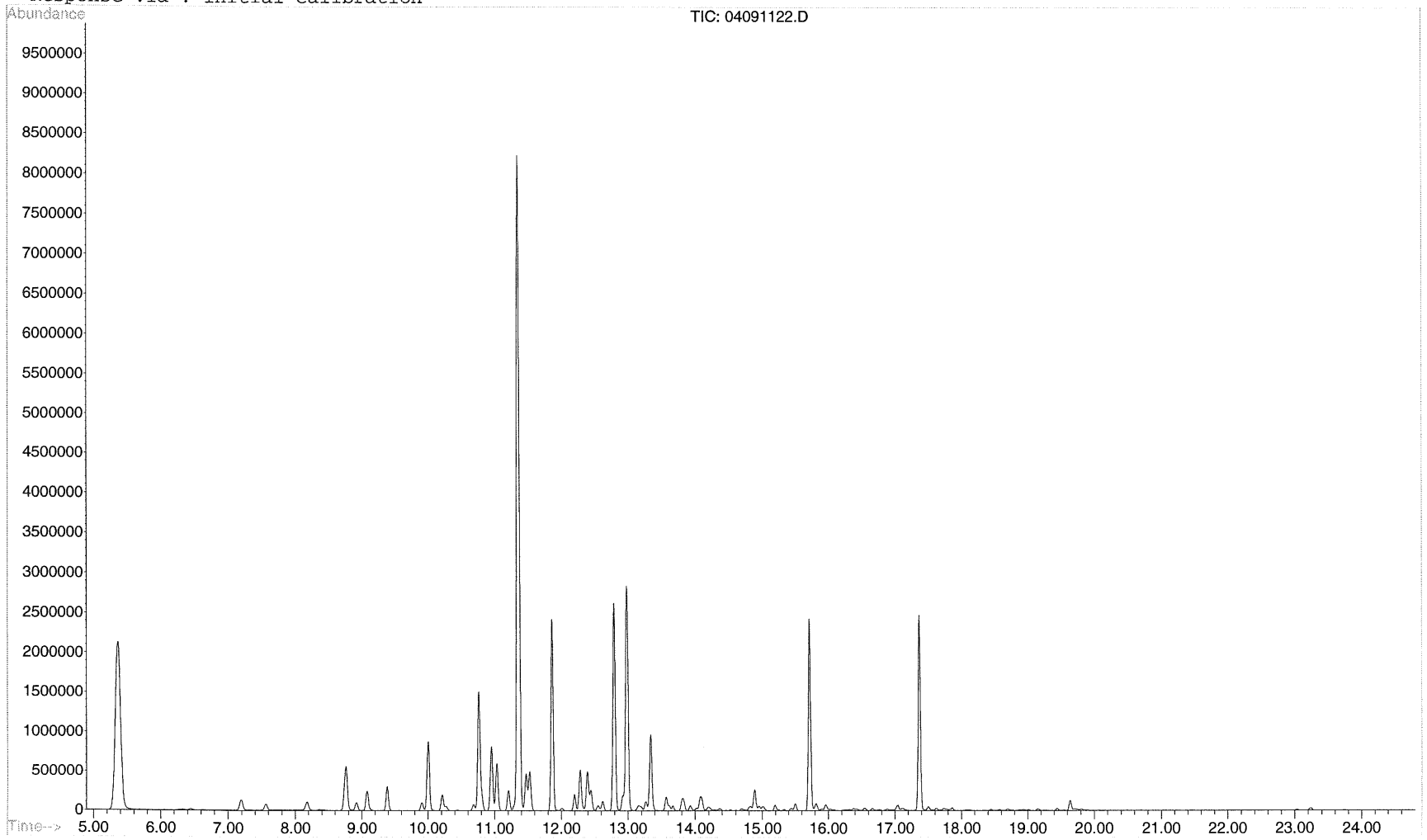
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1792007	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1121636	95.40	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.59%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	74336596m	651.75	ug/m3	
23) non C5-C8	6.45	TIC	49204	0.54	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	704150	9.93	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4149847	69.93	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1138602	11.79	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5529852	53.78	ug/m3	100
28) non C5-C8 {6}	13.82	TIC	544451	5.37	ug/m3	100
29) non C5-C8 - TOTAL	13.82	TIC	12116106m	142.47	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	14171316m	196.78	ug/m3	
31) non C9-C12	15.72	TIC	5583590	58.87	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	224767	2.51	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	185810	2.12	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	91537	1.13	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5539466	86.61	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11625170m	138.27	ug/m3	
37) C9-C10 Aromatic	17.86	120	39269m	3.99	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	3152m	0.32	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	42421m	4.31	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091122.D 040911V1.M Wed Apr 13 19:06:00 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091122.D Vial: 22
Acq On : 10 Apr 2011 3:09 am Operator: Michael Truchan
Sample : 1103389-009B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 10000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:35 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091123.D Vial: 23
Acq On : 10 Apr 2011 3:49 am Operator: Michael Truchan
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:35 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

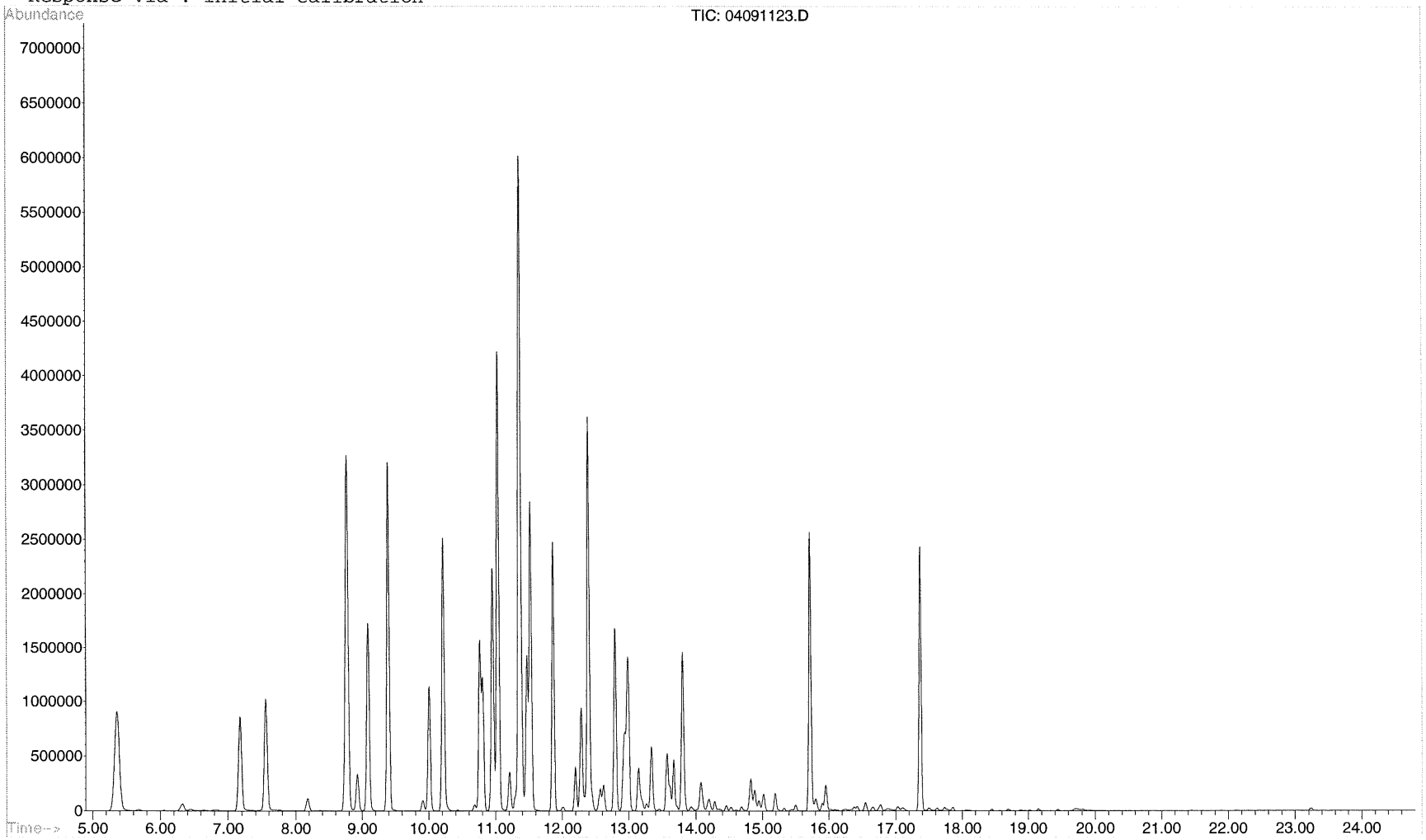
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1834651	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1108794	92.11	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.92%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	137155823m	1202.52	ug/m3	
23) non C5-C8	6.44	TIC	46988	0.52	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	4760628	67.14	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3768774	63.51	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3525891	36.52	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5679262	55.23	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	3666282	36.19	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21447825m	252.20	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	14704778m	204.19	ug/m3	
31) non C9-C12	15.72	TIC	5936235	62.59	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	274259	3.07	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	552552	6.31	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	197052	2.43	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5455379	85.30	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	12415477m	147.67	ug/m3	
37) C9-C10 Aromatic	17.86	120	43295m	4.40	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2585m	0.26	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	45880m	4.66	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091123.D 040911V1.M Wed Apr 13 19:06:12 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091123.D Vial: 23
Acq On : 10 Apr 2011 3:49 am Operator: Michael Truchan
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:35 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091125.D Vial: 25
Acq On : 10 Apr 2011 5:12 am Operator: Michael Truchan
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:36 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

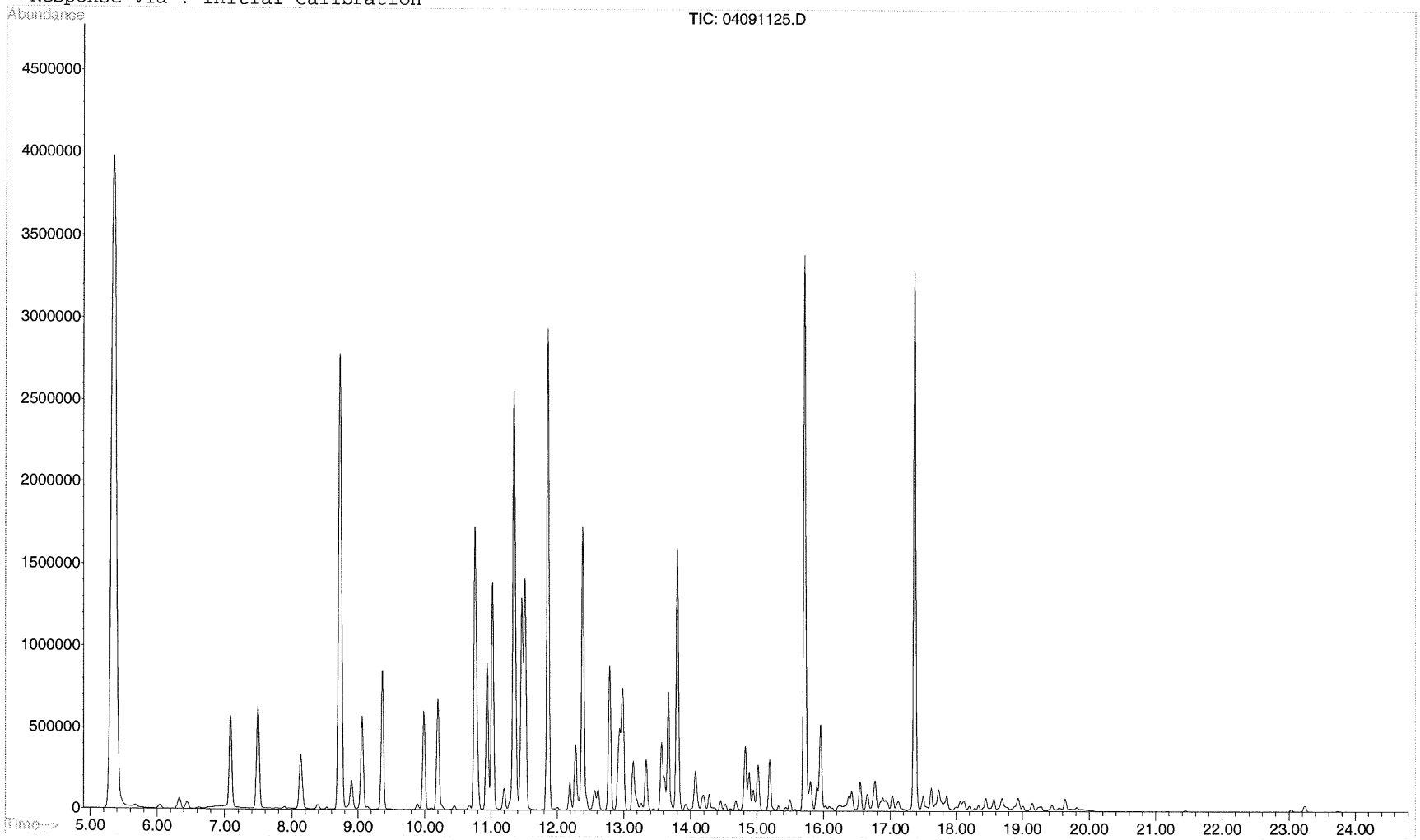
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2141643	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1511176	107.55	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 120.17%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	81201857m	711.94	ug/m3	
23) non C5-C8	6.45	TIC	131507	1.45	ug/m3	100
24) non C5-C8 {2}	9.06	TIC	1552359	21.89	ug/m3	100
25) non C5-C8 {3}	10.75	TIC	5066556	85.38	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	3318315	34.37	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6726821	65.42	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	3919222	38.69	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	20714780m	243.58	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	26058666m	361.85	ug/m3	
31) non C9-C12	15.72	TIC	7866924	82.95	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	430399	4.82	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	1221330	13.94	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	441973	5.45	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	7486501	117.06	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	17447127m	207.52	ug/m3	
37) C9-C10 Aromatic	17.86	120	116938m	11.87	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	116938m	11.87	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091125.D Vial: 25
Acq On : 10 Apr 2011 5:12 am Operator: Michael Truchan
Sample : 1103389-012B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:36 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091126.D Vial: 26
Acq On : 10 Apr 2011 5:53 am Operator: Michael Truchan
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:37 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

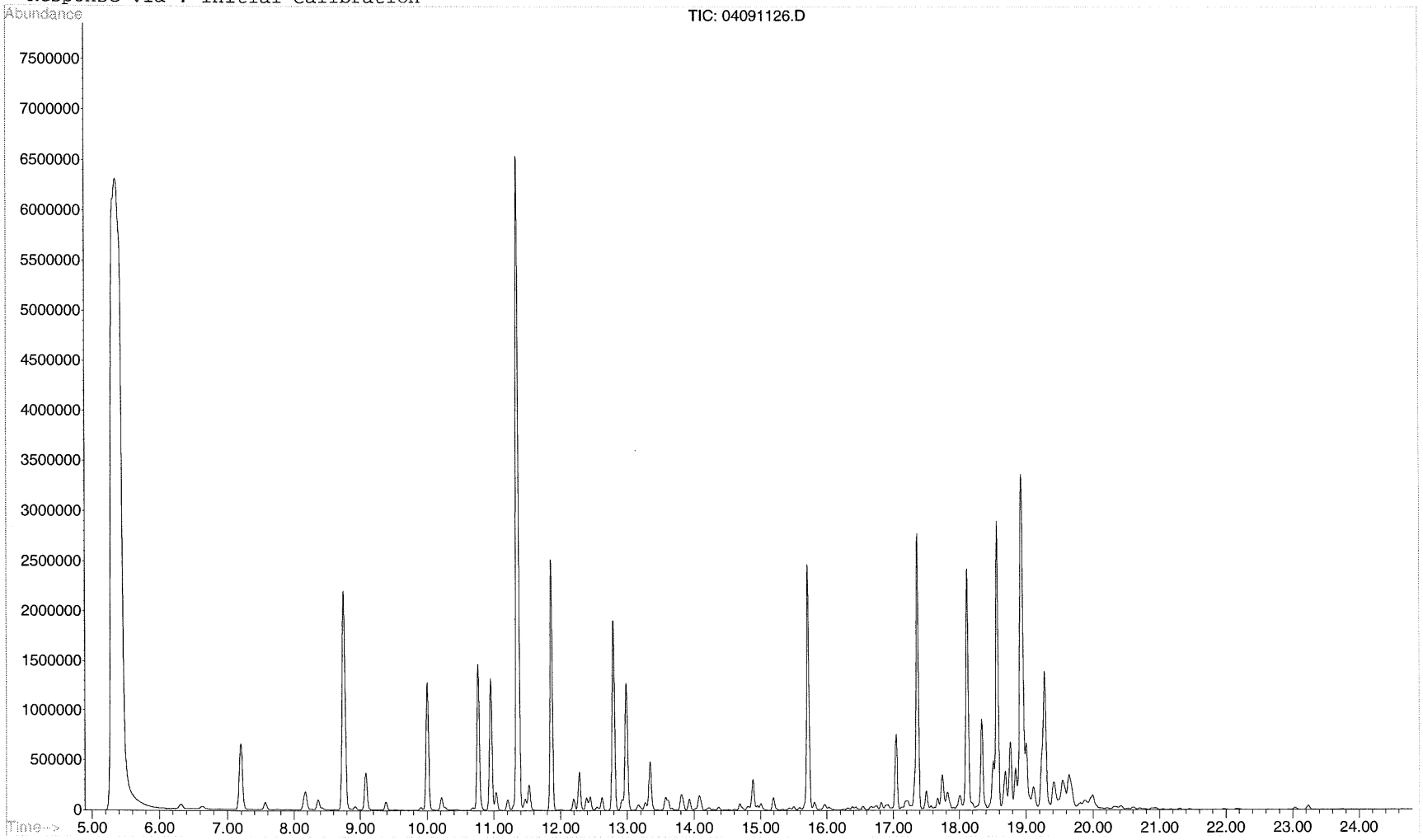
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1829564	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1161999	96.80	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.16%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	67817301m	594.59	ug/m3	
23) non C5-C8	6.46	TIC	16752	0.18	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1036773	14.62	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3717438	62.65	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	284248	2.94	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5782835	56.24	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	515004	5.08	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	11353050m	133.50	ug/m3	
30) C9-C12 Aliphatic	18.94	TIC	68483483m	950.97	ug/m3	
31) non C9-C12	15.71	TIC	5828551	61.45	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	181473	2.03	ug/m3	100
33) non C9-C12 {3}	15.97	TIC	149468	1.71	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	99119	1.22	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6998658	109.43	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	13257269m	157.68	ug/m3	
37) C9-C10 Aromatic	17.86	120	28986m	2.94	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	2010m	0.20	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	30996m	3.15	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091126.D 040911V1.M Wed Apr 13 19:06:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091126.D Vial: 26
Acq On : 10 Apr 2011 5:53 am Operator: Michael Truchan
Sample : 1103389-013B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:37 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091127.D Vial: 27
Acq On : 10 Apr 2011 6:34 am Operator: Michael Truchan
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:37 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

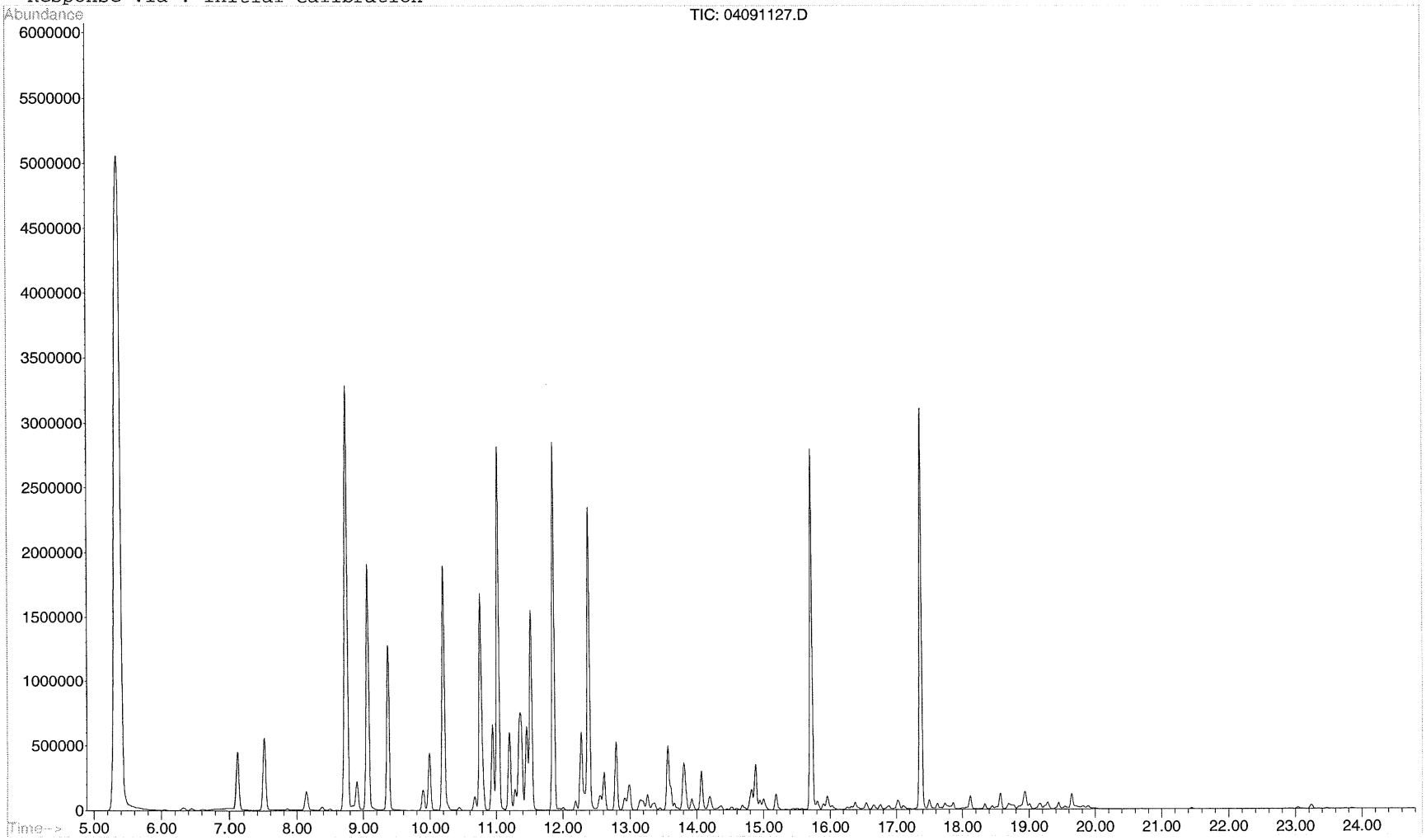
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2057545	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1428577	105.82	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 118.23%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.74	TIC	80593337m	706.61	ug/m3	
23) non C5-C8	6.45	TIC	45926	0.51	ug/m3	100
24) non C5-C8 {2}	9.06	TIC	5169021	72.90	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4749227	80.04	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	1630990	16.89	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6499427	63.21	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	1170885	11.56	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	19265476m	226.53	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	19722736m	273.87	ug/m3	
31) non C9-C12	15.72	TIC	6481582	68.34	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	143756	1.61	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	299211	3.42	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	150117	1.85	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	7030659	109.93	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	14105325m	167.77	ug/m3	
37) C9-C10 Aromatic	17.86	120	56710m	5.76	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	5239m	0.53	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	61949m	6.29	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091127.D 040911V1.M Wed Apr 13 19:06:27 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091127.D Vial: 27
Acq On : 10 Apr 2011 6:34 am Operator: Michael Truchan
Sample : 1103389-014B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:37 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091128.D Vial: 11
Acq On : 10 Apr 2011 8:14 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:51 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

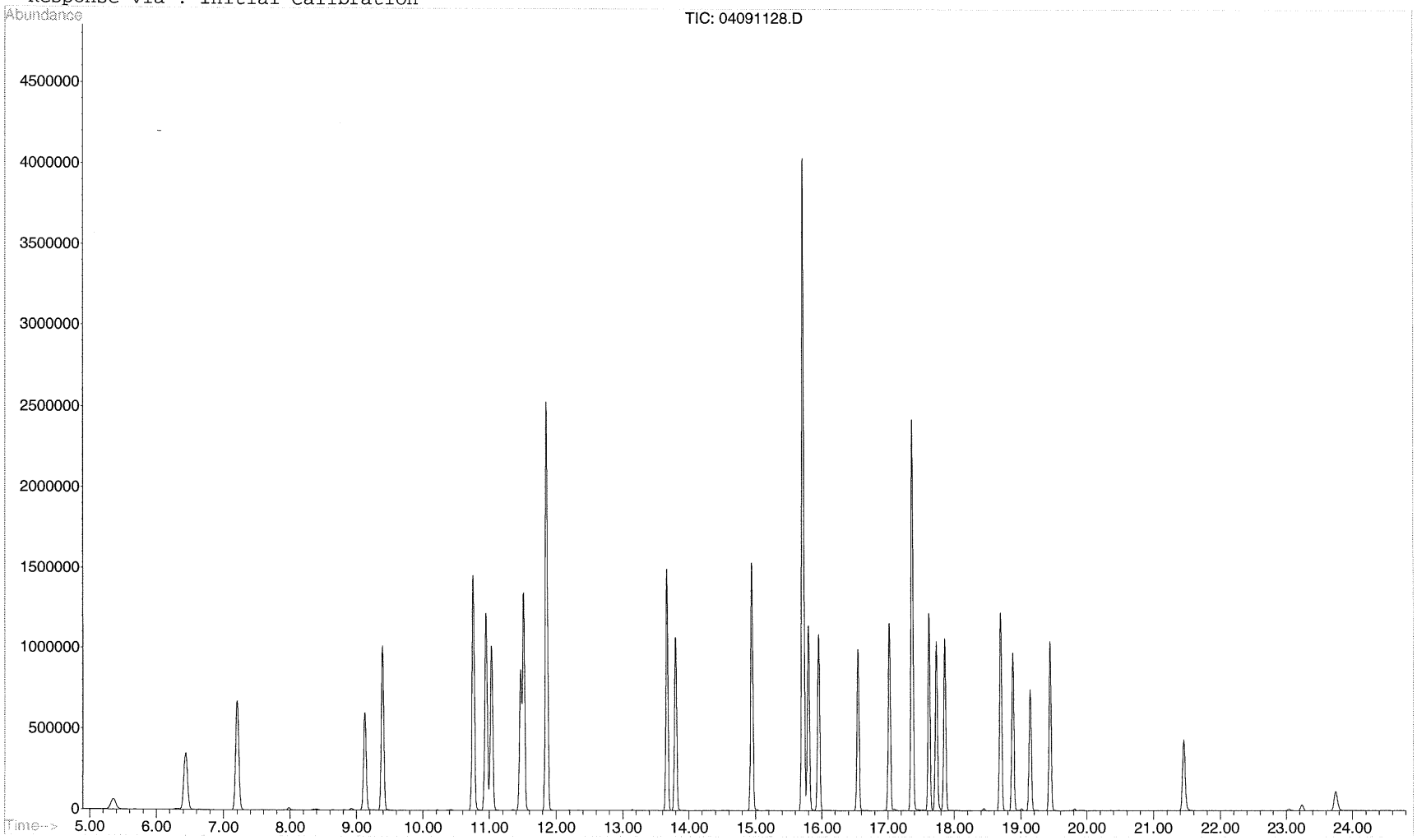
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1876457	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1101064	89.43	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.92%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2261940	18.64	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2566532	23.57	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	3147393	26.36	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2640085	22.86	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	2962046	25.60	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3159344	29.68	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	16737340m	146.75	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3482883	32.93	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.72	TIC	8771292	92.48	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2497606	34.70	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2773134	36.34	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	2288678	41.49	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	1230523	41.61	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	21044116m	292.22	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	295952	31.31	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	303072	31.70	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	409213	32.73	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	81548	33.68	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	286073	32.32	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	229355	34.80	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1605213m	163.00	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091128.D 040911V1.M Wed Apr 13 19:06:32 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091128.D Vial: 11
Acq On : 10 Apr 2011 8:14 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:51 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091120.D Vial: 20
Acq On : 10 Apr 2011 7:15 am Operator: Michael Truchan
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:34 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

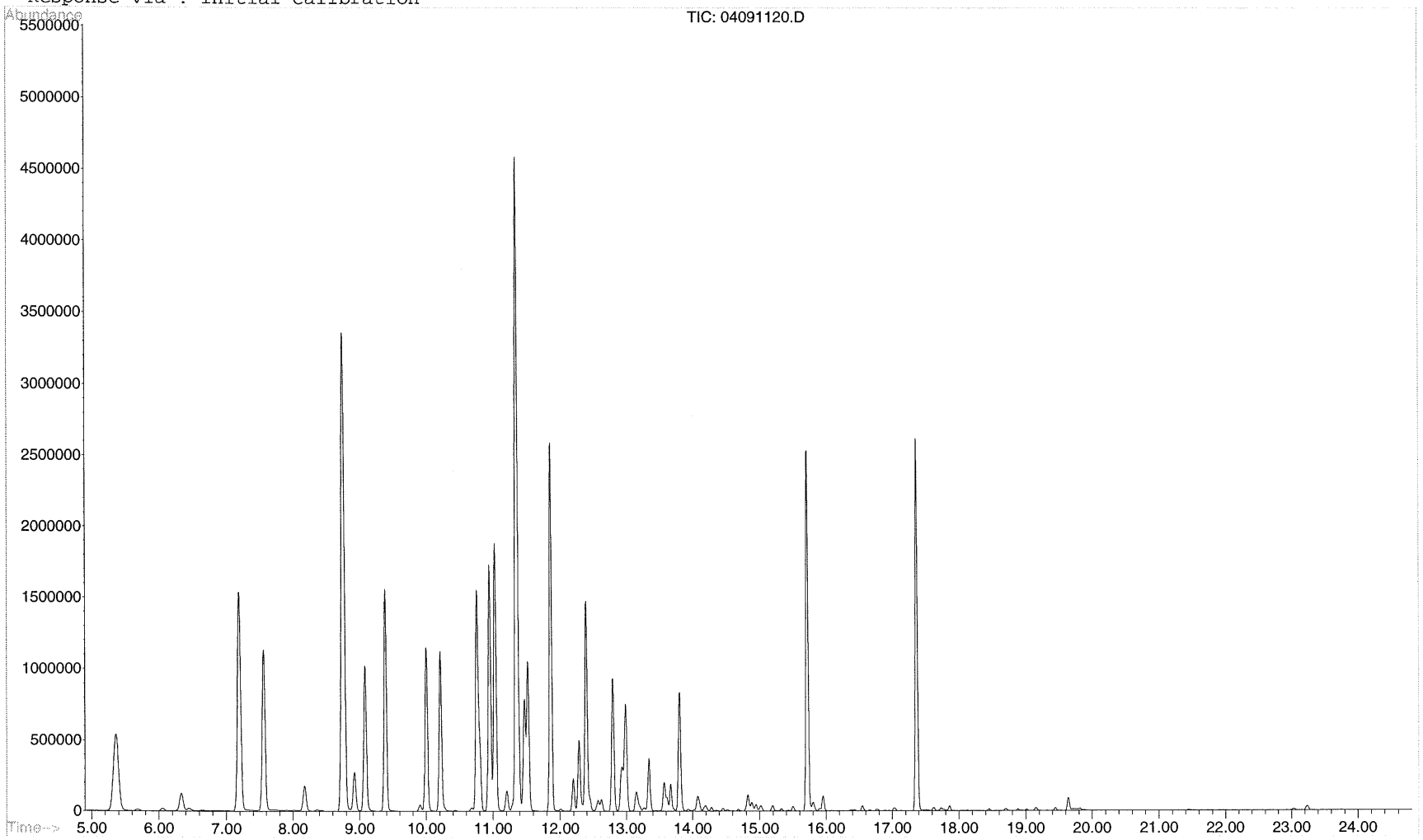
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1904966	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1197527	95.81	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 107.05%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.36	TIC	90850169m	796.53	ug/m3	
23) non C5-C8	6.44	TIC	65866	0.73	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2852863	40.23	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4897646	82.54	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1971269	20.42	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5956453	57.93	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2048716	20.22	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17792813m	209.22	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	13376884m	185.75	ug/m3	
31) non C9-C12	15.72	TIC	5856770	61.75	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	169961	1.90	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	252484	2.88	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	86518	1.07	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5848739	91.45	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12214472m	145.28	ug/m3	
37) C9-C10 Aromatic	17.86	120	40996m	4.16	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2752m	0.28	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	43748m	4.44	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091120.D Vial: 20
Acq On : 10 Apr 2011 7:15 am Operator: Michael Truchan
Sample : 1103389-007B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 20000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:34 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091129.D Vial: 12
Acq On : 10 Apr 2011 9:32 am Operator: Michael Truchan
Sample : MBLK 4/09/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:52 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

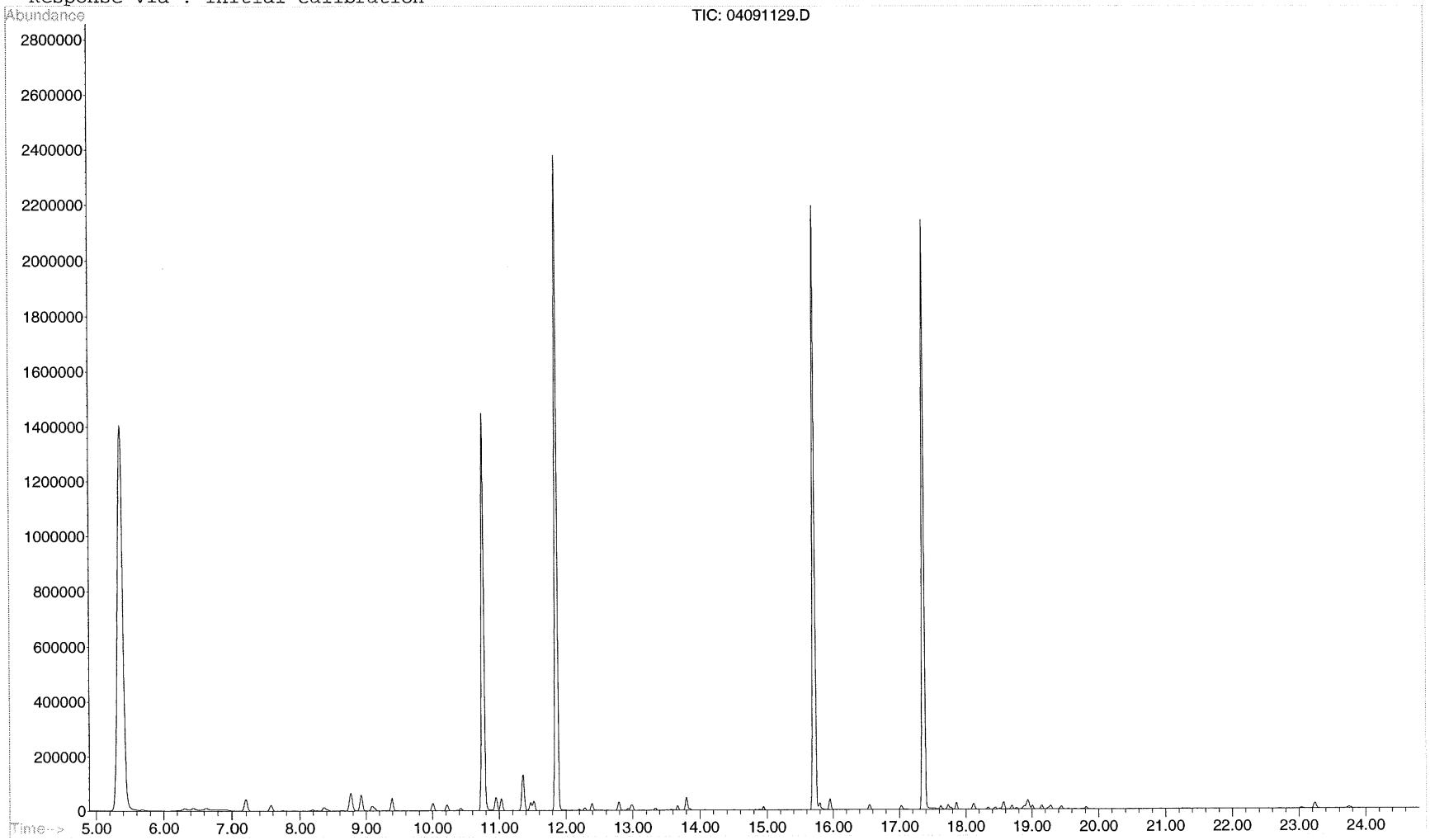
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1677261	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	982894	89.32	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.80%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	11467373m	100.54	ug/m3	
23) non C5-C8	6.43	TIC	25492	0.28	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	71099	1.00	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3631303	61.20	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	66651	0.69	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5471187	53.21	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	118087	1.17	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9383819m	110.34	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	10767374m	149.52	ug/m3	
31) non C9-C12	15.72	TIC	5032474	53.06	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	57555	0.64	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	83091	0.95	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	39851	0.49	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4835925	75.61	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10048896m	119.52	ug/m3	
37) C9-C10 Aromatic	17.85	120	32314m	3.28	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2996m	0.30	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	35310m	3.59	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091129.D 040911V1.M Wed Apr 13 19:06:52 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091129.D Vial: 12
Acq On : 10 Apr 2011 9:32 am Operator: Michael Truchan
Sample : MBLK 4/09/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:52 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091130.D Vial: 13
Acq On : 10 Apr 2011 10:15 am Operator: Michael Truchan
Sample : MBLK 4/10/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:52 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

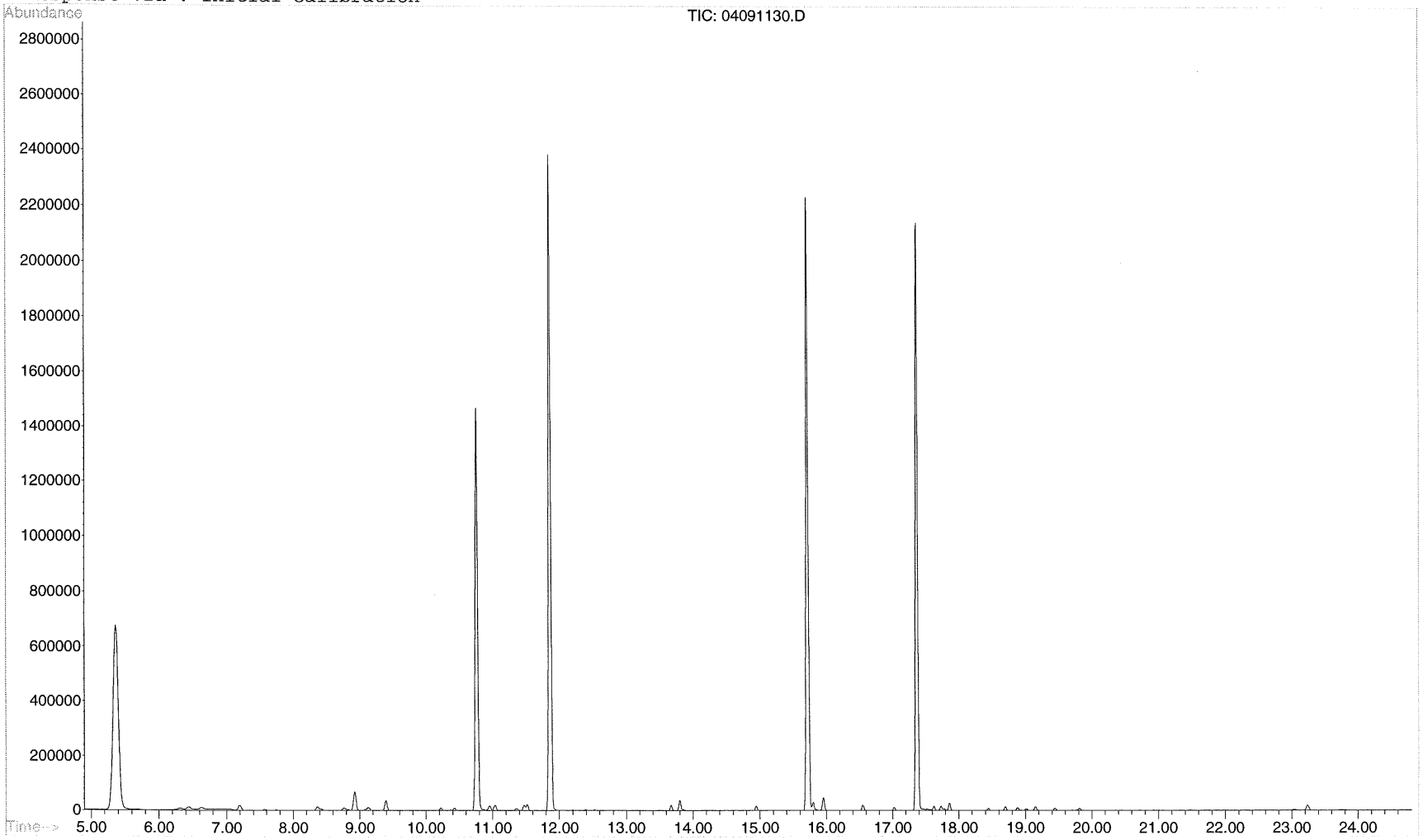
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1679224	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	977286	88.70	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.11%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	10185489m	89.30	ug/m3	
23) non C5-C8	6.44	TIC	34649	0.38	ug/m3	100
24) non C5-C8 {2}	9.13	TIC	41363	0.58	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3605932	60.77	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	45028	0.47	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5471202	53.21	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	84104	0.83	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9282278m	109.15	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	10400485m	144.42	ug/m3	
31) non C9-C12	15.72	TIC	5035422	53.09	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	68765	0.77	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	101590	1.16	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	45653	0.56	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	4787585	74.86	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	10039015m	119.41	ug/m3	
37) C9-C10 Aromatic	17.86	120	32674m	3.32	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2837m	0.29	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	35511m	3.61	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091130.D 040911V1.M Wed Apr 13 19:06:56 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091130.D Vial: 13
Acq On : 10 Apr 2011 10:15 am Operator: Michael Truchan
Sample : MBLK 4/10/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:52 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091131.D Vial: 24
Acq On : 10 Apr 2011 10:57 am Operator: Michael Truchan
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 800.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:53 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

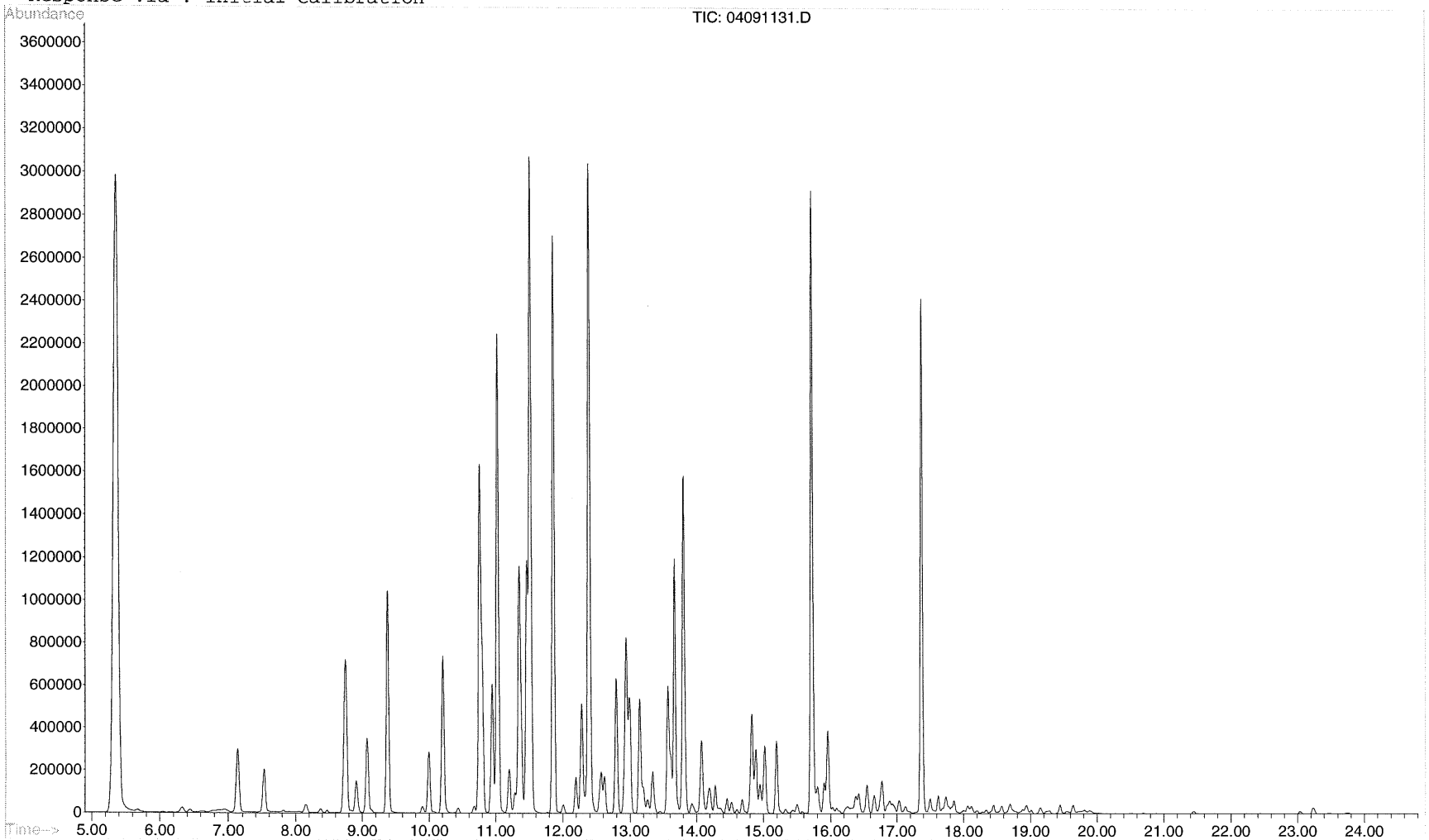
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1850037	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1117459	92.06	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.86%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.51	TIC	78906956m	691.82	ug/m3	
23) non C5-C8	6.44	TIC	38435	0.42	ug/m3	100
24) non C5-C8 {2}	9.07	TIC	984145	13.88	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5599050	94.36	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2679414	27.75	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6196554	60.26	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4011538	39.60	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19509136m	229.40	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	19302512m	268.04	ug/m3	
31) non C9-C12	15.72	TIC	6791911	71.61	ug/m3	100
32) non C9-C12 {2}	15.72	TIC	6791911	75.98	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	954504	10.90	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	329799	4.07	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5543497	86.68	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	20411622m	242.78	ug/m3	
37) C9-C10 Aromatic	17.86	120	68834m	6.99	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3753m	0.38	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	72587m	7.37	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091131.D 040911V1.M Wed Apr 13 19:07:05 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091131.D Vial: 24
Acq On : 10 Apr 2011 10:57 am Operator: Michael Truchan
Sample : 1103389-011B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 800.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:53 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091132.D Vial: 28
Acq On : 10 Apr 2011 11:38 am Operator: Michael Truchan
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:53 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

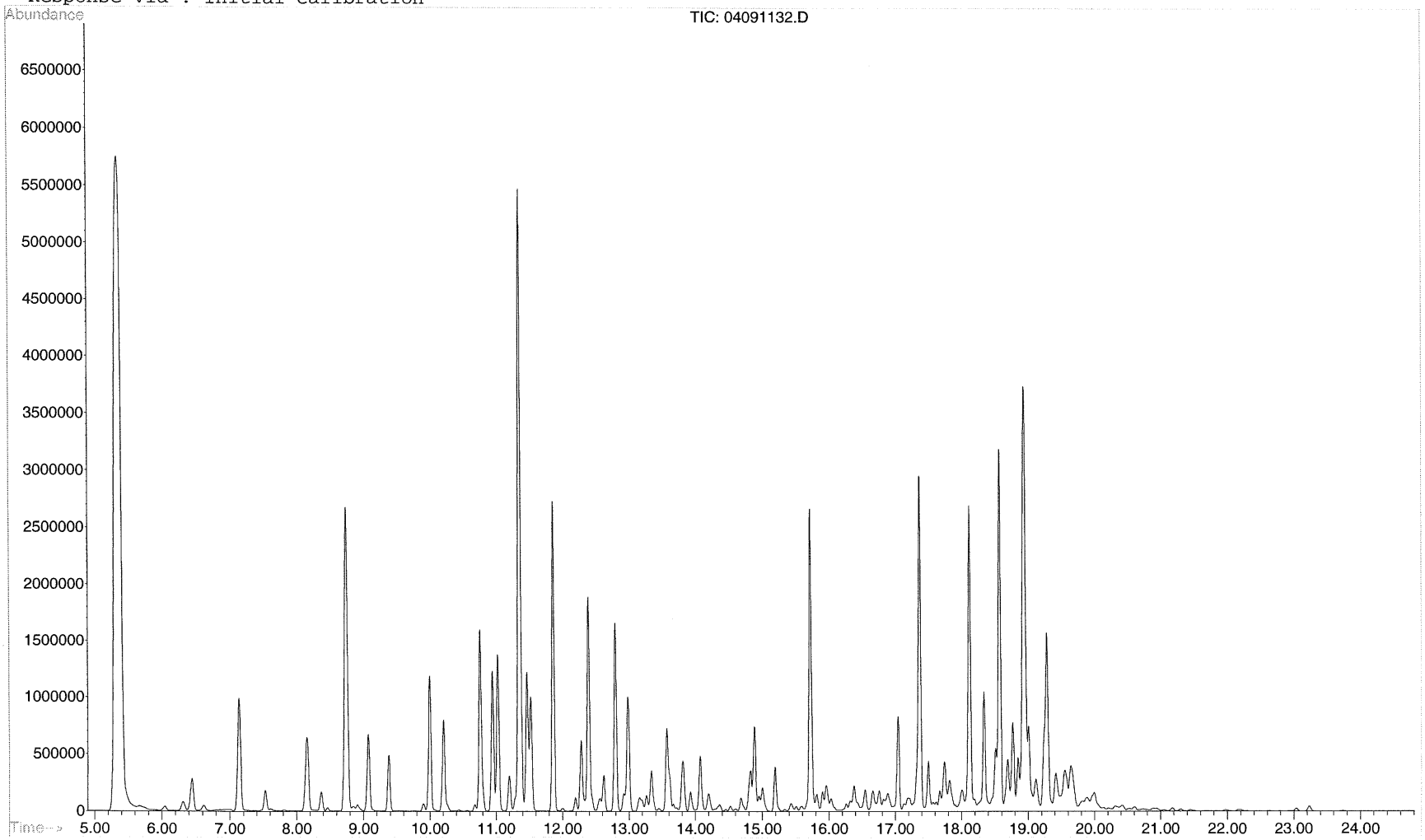
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1927131	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1249388	98.81	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 110.40%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	95114903m	833.92	ug/m3	
23) non C5-C8	6.44	TIC	905897	9.98	ug/m3	100
24) non C5-C8 {2}	9.07	TIC	1846934	26.05	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4295323	72.39	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3194121	33.08	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6213684	60.43	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	1393865	13.76	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	17849824m	209.89	ug/m3	
30) C9-C12 Aliphatic	18.93	TIC	85089355m	1181.56	ug/m3	
31) non C9-C12	15.72	TIC	6581835	69.40	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	295124	3.30	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	650345	7.42	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	487800	6.01	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	7766108	121.43	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	15781212m	187.71	ug/m3	
37) C9-C10 Aromatic	17.86	120	66056m	6.71	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2876m	0.29	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	68932m	7.00	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091132.D 040911V1.M Wed Apr 13 19:07:09 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091132.D Vial: 28
Acq On : 10 Apr 2011 11:38 am Operator: Michael Truchan
Sample : 1103389-015B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:53 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091133.D Vial: 29
Acq On : 10 Apr 2011 12:19 pm Operator: Michael Truchan
Sample : 1103389-015BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:54 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

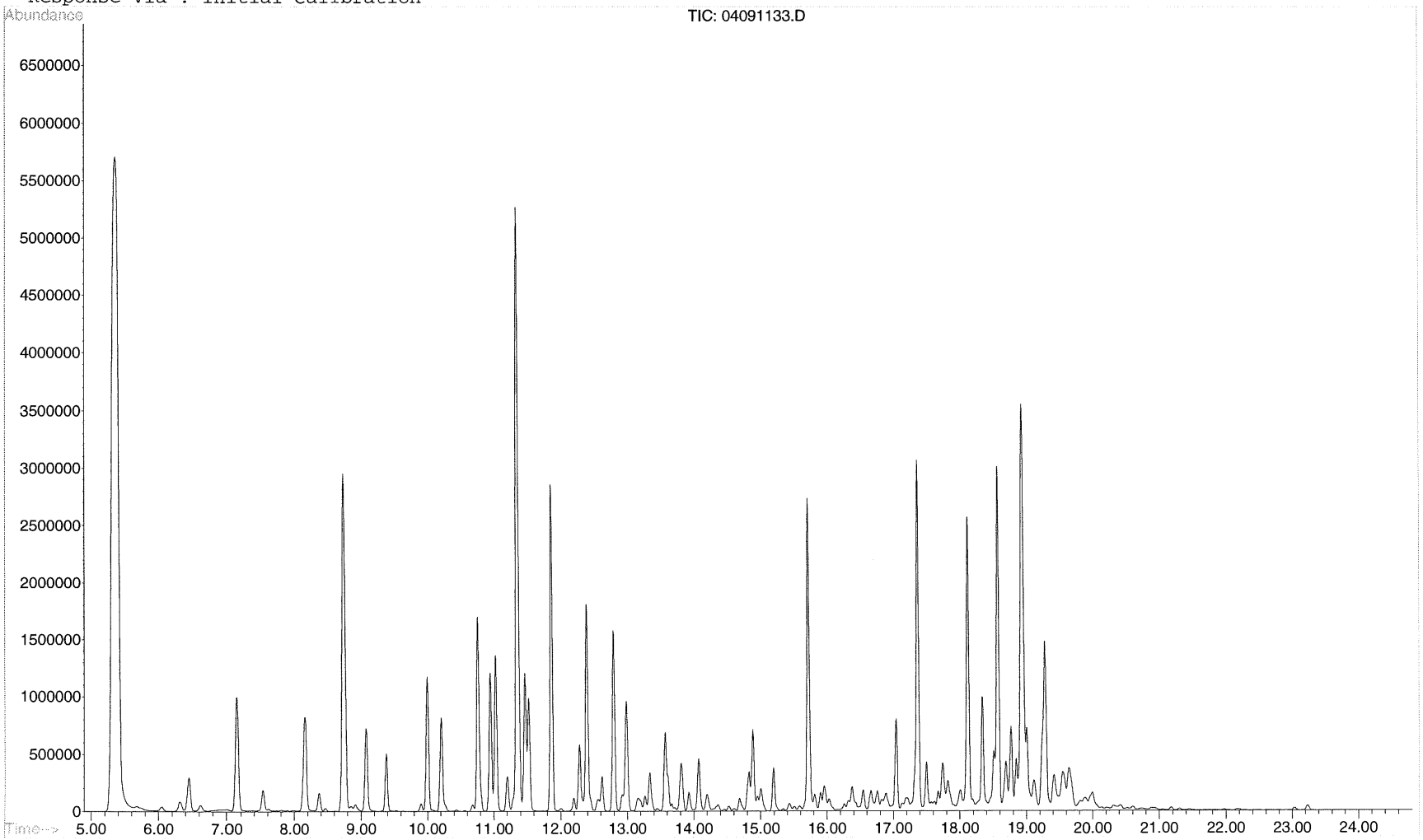
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1995120	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1294737	98.91	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 110.51%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	95050604m	833.36	ug/m3	
23) non C5-C8	6.45	TIC	933132	10.28	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2007665	28.31	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4470938	75.35	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3120919	32.32	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6529882	63.50	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	1307316	12.90	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	18369852m	216.00	ug/m3	
30) C9-C12 Aliphatic	18.94	TIC	82146300m	1140.69	ug/m3	
31) non C9-C12	15.72	TIC	6721622	70.87	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	278372	3.11	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	627394	7.16	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	467487	5.76	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	7907879	123.64	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	16002754m	190.34	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091133.D 040911V1.M Wed Apr 13 19:07:15 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091133.D Vial: 29
Acq On : 10 Apr 2011 12:19 pm Operator: Michael Truchan
Sample : 1103389-015BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:54 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091134.D Vial: 29
Acq On : 10 Apr 2011 1:00 pm Operator: Michael Truchan
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:54 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

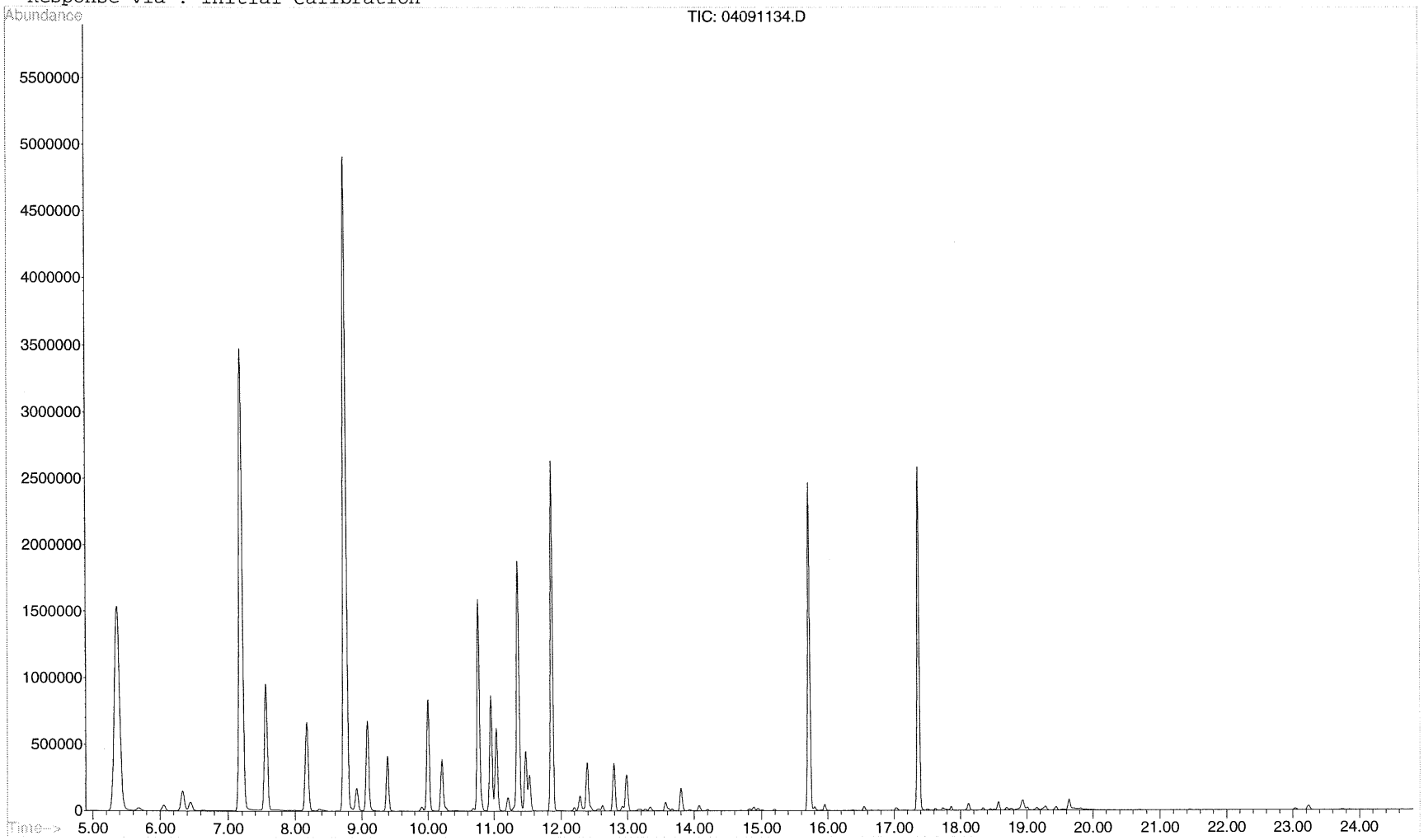
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1857392	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1170186	96.02	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 107.28%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	66866324m	586.25	ug/m3	
23) non C5-C8	6.45	TIC	232329	2.56	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1909632	26.93	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4072217	68.63	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1183833	12.26	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6013353	58.48	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	432170	4.27	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	13843534m	162.78	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	13606810m	188.94	ug/m3	
31) non C9-C12	15.71	TIC	5613118	59.18	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	68671	0.77	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	106263	1.21	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	71025	0.88	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5761650	90.09	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11620727m	138.22	ug/m3	
37) C9-C10 Aromatic	17.86	120	35643m	3.62	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2994m	0.30	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	38637m	3.92	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091134.D Vial: 29
Acq On : 10 Apr 2011 1:00 pm Operator: Michael Truchan
Sample : 1103389-016B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:54 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091135.D Vial: 30
Acq On : 10 Apr 2011 1:42 pm Operator: Michael Truchan
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:55 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

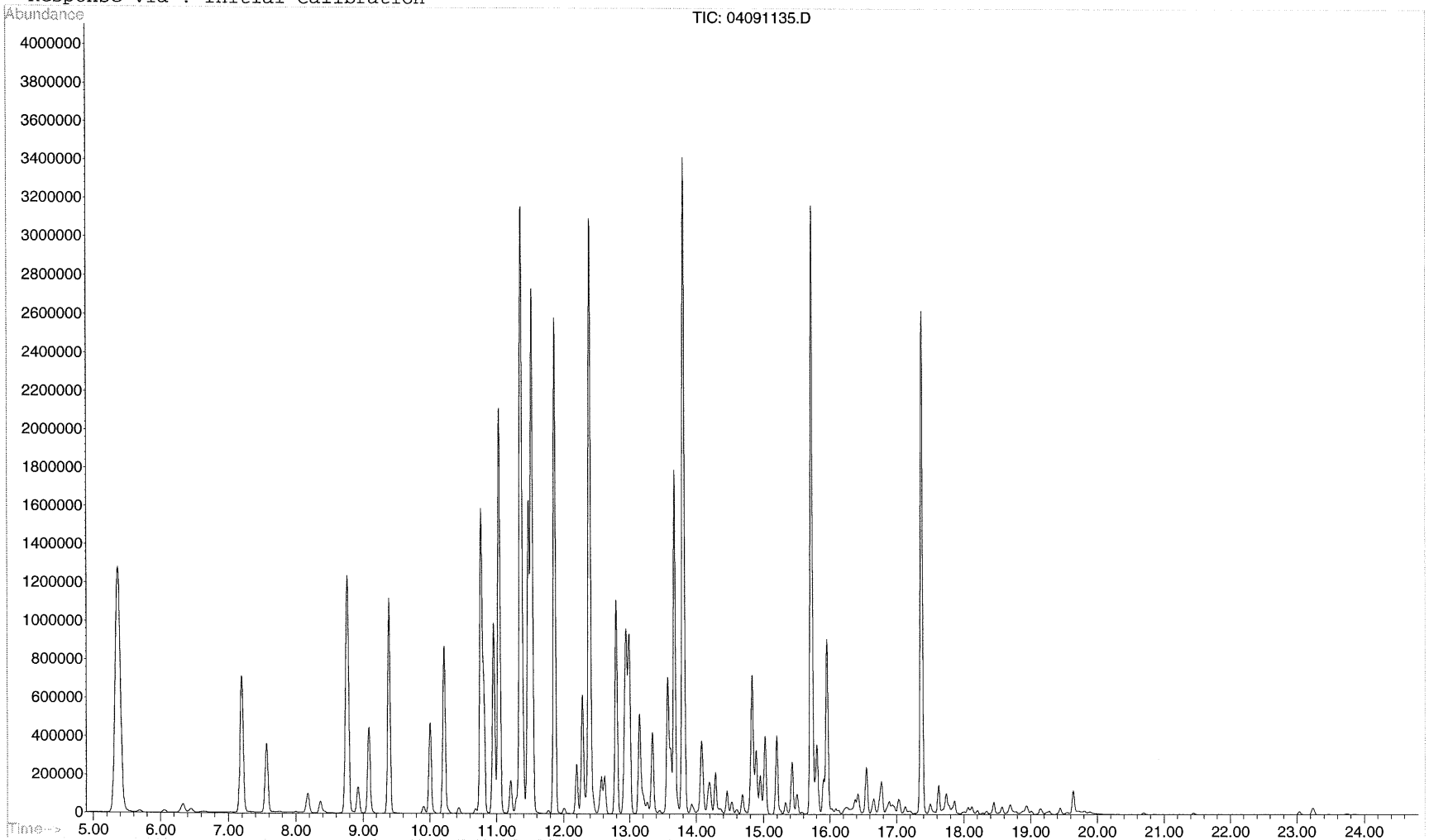
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1866760	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1185638	96.80	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.16%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	13.80	TIC	103271174m	905.44	ug/m3	
23) non C5-C8	6.45	TIC	66468	0.73	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1266759	17.86	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5382304	90.70	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3818130	39.54	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5895908	57.34	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	8172078	80.66	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	24601647m	289.28	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	23472683m	325.94	ug/m3	
31) non C9-C12	15.71	TIC	7302001	76.99	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	879971	9.84	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	2181725	24.91	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	580732	7.16	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5906485	92.35	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	16850914m	200.43	ug/m3	
37) C9-C10 Aromatic	18.44	120	106392m	10.80	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	6545m	0.66	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	112937m	11.47	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091135.D 040911V1.M Wed Apr 13 19:07:28 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091135.D Vial: 30
Acq On : 10 Apr 2011 1:42 pm Operator: Michael Truchan
Sample : 1103389-017B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:55 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091136.D Vial: 31
Acq On : 10 Apr 2011 2:23 pm Operator: Michael Truchan
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 10000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:55 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

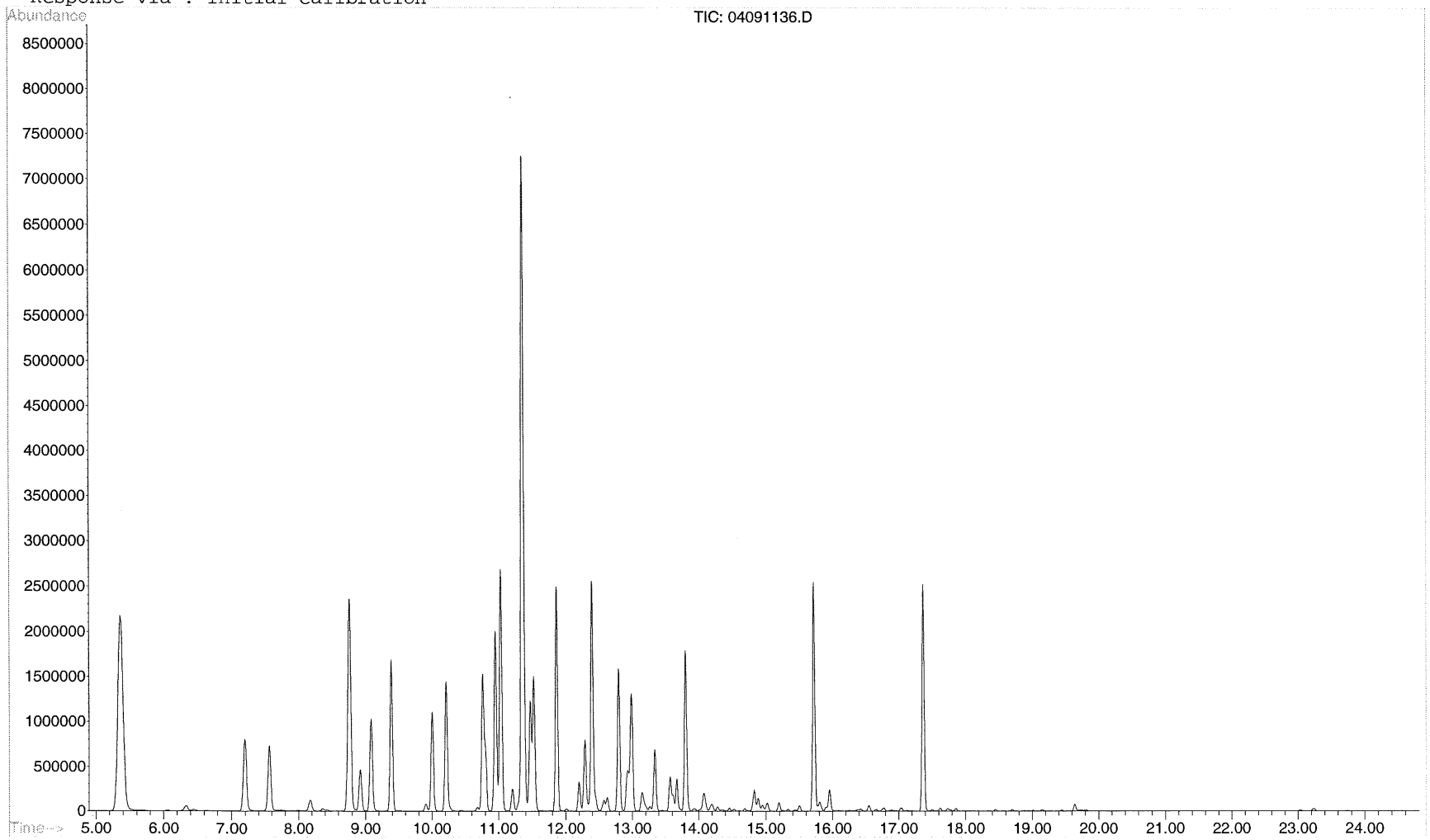
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1811783	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1149472	96.70	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.04%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	111972062m	981.72	ug/m3	
23) non C5-C8	6.44	TIC	49902	0.55	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2858402	40.31	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5217877	87.93	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3152579	32.65	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5712850	55.56	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4243421	41.89	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21235031m	249.69	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	14197459m	197.15	ug/m3	
31) non C9-C12	15.72	TIC	5819541	61.36	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	269314	3.01	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	567709	6.48	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	156597	1.93	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5641371	88.21	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	12454532m	148.14	ug/m3	
37) C9-C10 Aromatic	17.86	120	41760m	4.24	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	1958m	0.20	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	43718m	4.44	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091136.D 040911V1.M Wed Apr 13 19:07:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091136.D Vial: 31
Acq On : 10 Apr 2011 2:23 pm Operator: Michael Truchan
Sample : 1103389-018B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 10000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:55 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091137.D Vial: 32
Acq On : 10 Apr 2011 3:04 pm Operator: Michael Truchan
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 800.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:58 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

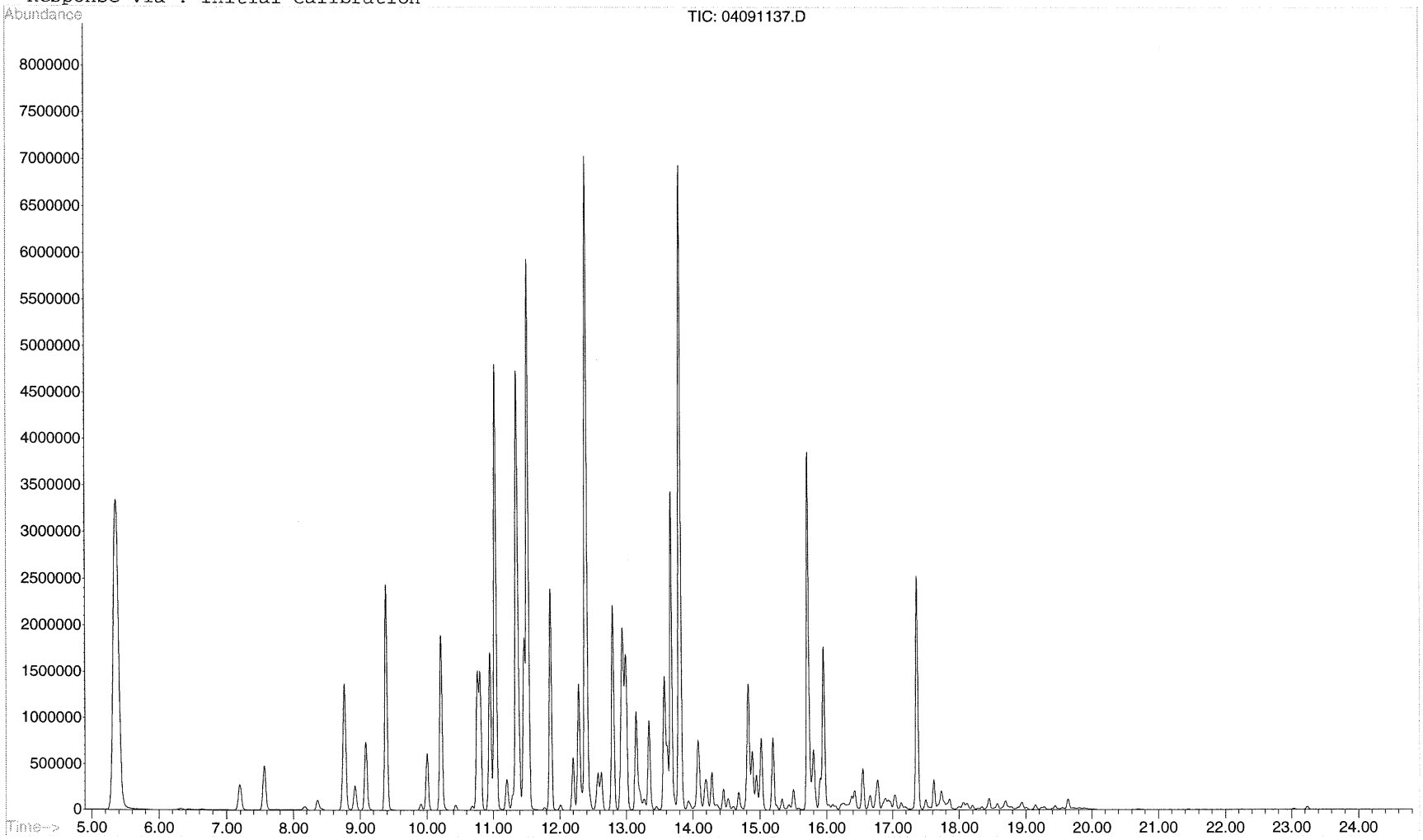
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1816573	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1142716	95.88	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 107.13%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	181284335m	1589.42	ug/m3	
23) non C5-C8	6.44	TIC	24812	0.27	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2086131	29.42	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3859111	65.03	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	4419962	45.78	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5505077	53.54	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	16470743	162.58	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	32365836m	380.57	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	34406125m	477.77	ug/m3	
31) non C9-C12	15.72	TIC	8913919	93.99	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	1670263	18.69	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	4201430	47.97	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	1065236	13.14	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5827972	91.12	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	21678820m	257.85	ug/m3	
37) C9-C10 Aromatic	18.44	120	183971m	18.68	ug/m3	
38) C9-C10 Aromatic {2}	18.89	134	17744m	1.80	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	201715m	20.48	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091137.D 040911V1.M Wed Apr 13 19:07:41 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091137.D Vial: 32
Acq On : 10 Apr 2011 3:04 pm Operator: Michael Truchan
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 800.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091138.D Vial: 33
Acq On : 10 Apr 2011 3:47 pm Operator: Michael Truchan
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:59 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

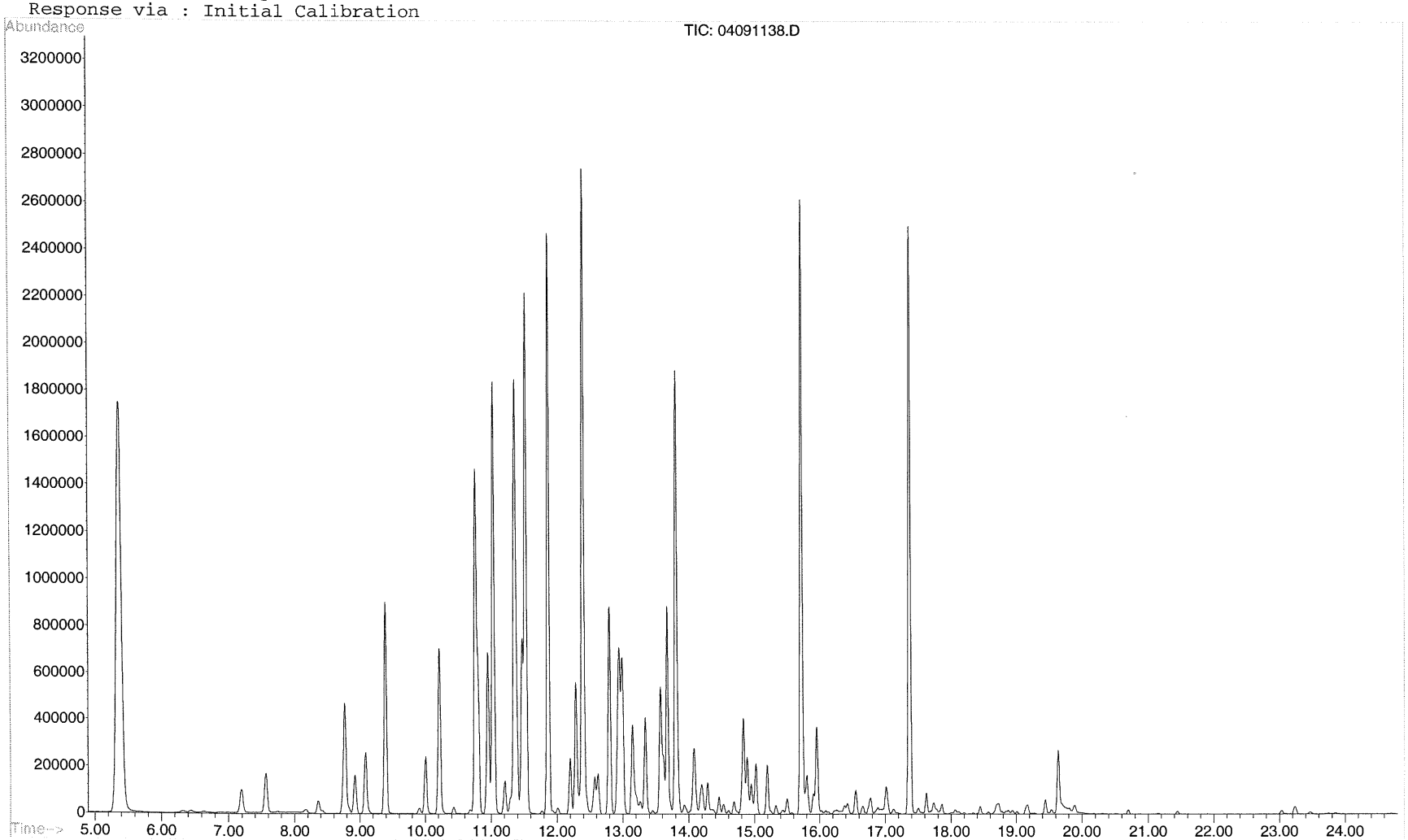
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1770937	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1134230	97.62	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 109.07%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	72613331m	636.64	ug/m3	
23) non C5-C8	6.45	TIC	29536	0.33	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	738415	10.41	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4984854	84.01	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1659731	17.19	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5659407	55.04	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4687966	46.27	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17759909m	208.83	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	17612715m	244.57	ug/m3	
31) non C9-C12	15.71	TIC	6048867	63.78	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	396278	4.43	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	867010	9.90	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	244361	3.01	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5575051	87.17	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	13131567m	156.19	ug/m3	
37) C9-C10 Aromatic	17.86	120	63233m	6.42	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	5183m	0.53	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	68416m	6.95	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091138.D 040911V1.M Wed Apr 13 19:07:50 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091138.D Vial: 33
Acq On : 10 Apr 2011 3:47 pm Operator: Michael Truchan
Sample : 1103389-020B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:59 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091139.D Vial: 34
Acq On : 10 Apr 2011 4:28 pm Operator: Michael Truchan
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:59 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

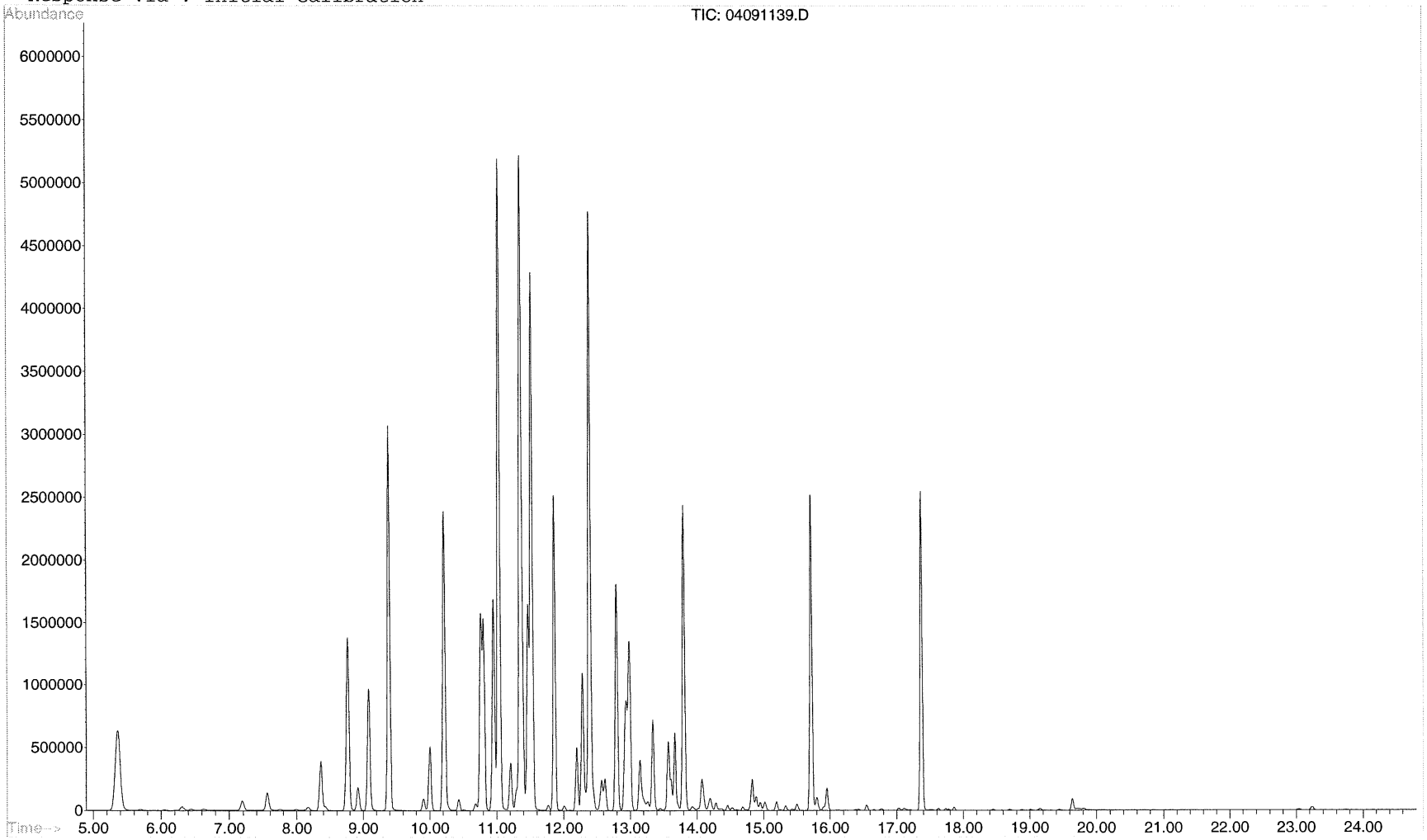
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1859953	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1154451	94.60	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 105.70%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.36	TIC	132027769m	1157.56	ug/m3	
23) non C5-C8	6.45	TIC	31519	0.35	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2683497	37.84	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3734703	62.94	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3975415	41.17	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5726288	55.69	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	5876878	58.01	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	22028300m	259.02	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	13350855m	185.39	ug/m3	
31) non C9-C12	15.71	TIC	5780147	60.94	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	279416	3.13	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	485516	5.54	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	104346	1.29	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5666990	88.61	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	12316415m	146.49	ug/m3	
37) C9-C10 Aromatic	17.85	120	33426m	3.39	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2297m	0.23	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	35723m	3.63	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091139.D 040911V1.M Wed Apr 13 19:07:57 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091139.D Vial: 34
Acq On : 10 Apr 2011 4:28 pm Operator: Michael Truchan
Sample : 1103389-021B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:59 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091140.D Vial: 35
Acq On : 10 Apr 2011 5:09 pm Operator: Michael Truchan
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:00 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

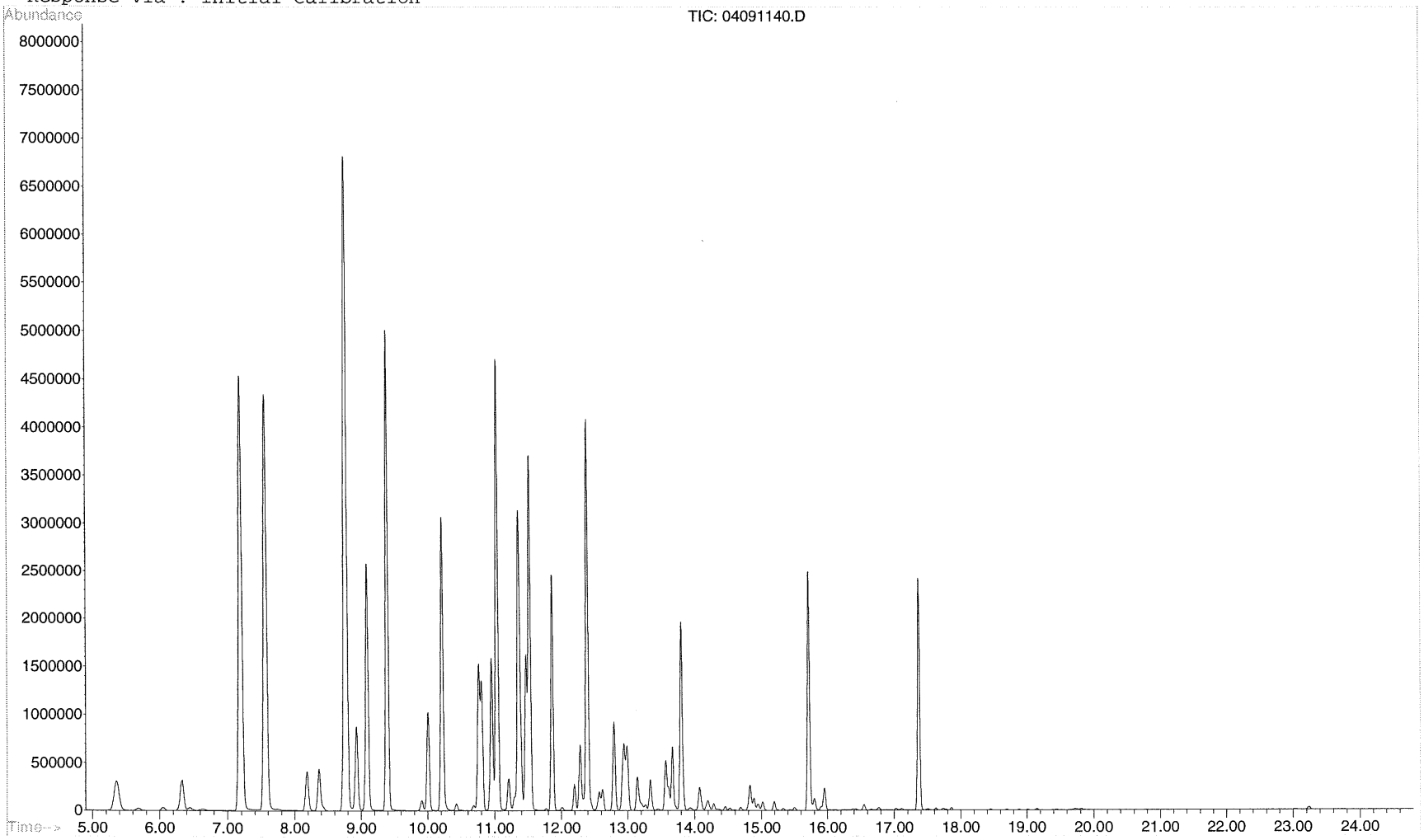
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1793942	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1096946	93.20	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 104.13%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.77	TIC	176269763m	1545.45	ug/m3	
23) non C5-C8	6.45	TIC	107932	1.19	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	7078114	99.82	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3795366	63.96	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3697760	38.30	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5643246	54.88	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4757192	46.96	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	25079610m	294.90	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	13106086m	181.99	ug/m3	
31) non C9-C12	15.72	TIC	5695629	60.05	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	291833	3.26	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	627754	7.17	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	143613	1.77	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5393426	84.33	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	12152255m	144.54	ug/m3	
37) C9-C10 Aromatic	17.86	120	34250m	3.48	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	1705m	0.17	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	35955m	3.65	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091140.D Vial: 35
Acq On : 10 Apr 2011 5:09 pm Operator: Michael Truchan
Sample : 1103389-022B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:00 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091141.D Vial: 36
Acq On : 10 Apr 2011 5:50 pm Operator: Michael Truchan
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:02 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

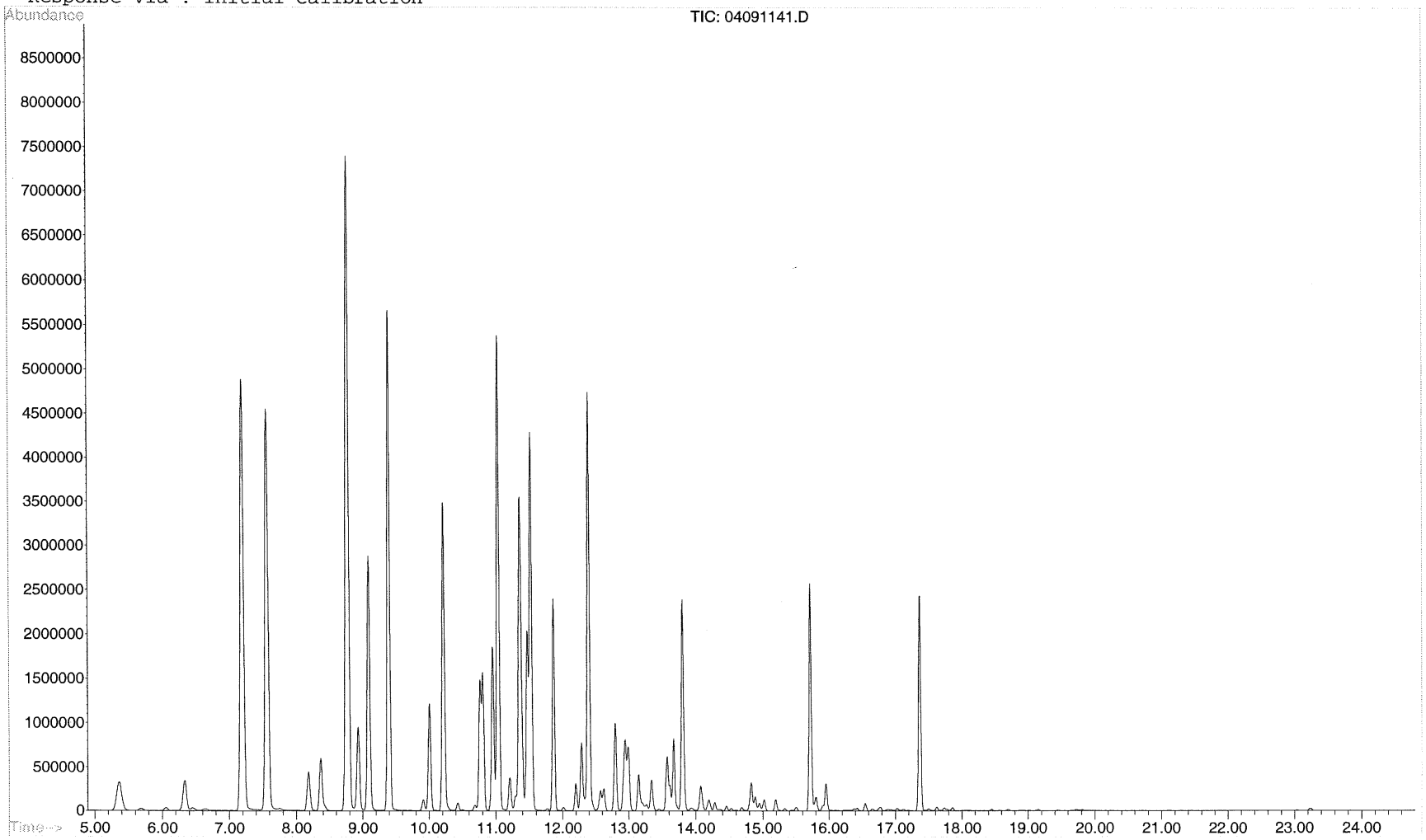
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1799553	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1108732	93.90	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 104.92%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.77	TIC	197597414m	1732.45	ug/m3	
23) non C5-C8	6.45	TIC	120127	1.32	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	7903633	111.46	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3586034	60.43	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	4923772	50.99	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5471713	53.21	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	5745226	56.71	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	27750505m	326.31	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	14333470m	199.04	ug/m3	
31) non C9-C12	15.72	TIC	5882515	62.02	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	380753	4.26	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	862000	9.84	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	201621	2.49	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5463878	85.43	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	12790767m	152.14	ug/m3	
37) C9-C10 Aromatic	17.86	120	45287m	4.60	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2361m	0.24	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	47648m	4.84	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091141.D Vial: 36
Acq On : 10 Apr 2011 5:50 pm Operator: Michael Truchan
Sample : 1103389-023B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:02 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091142.D Vial: 37
Acq On : 10 Apr 2011 6:31 pm Operator: Michael Truchan
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:01 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

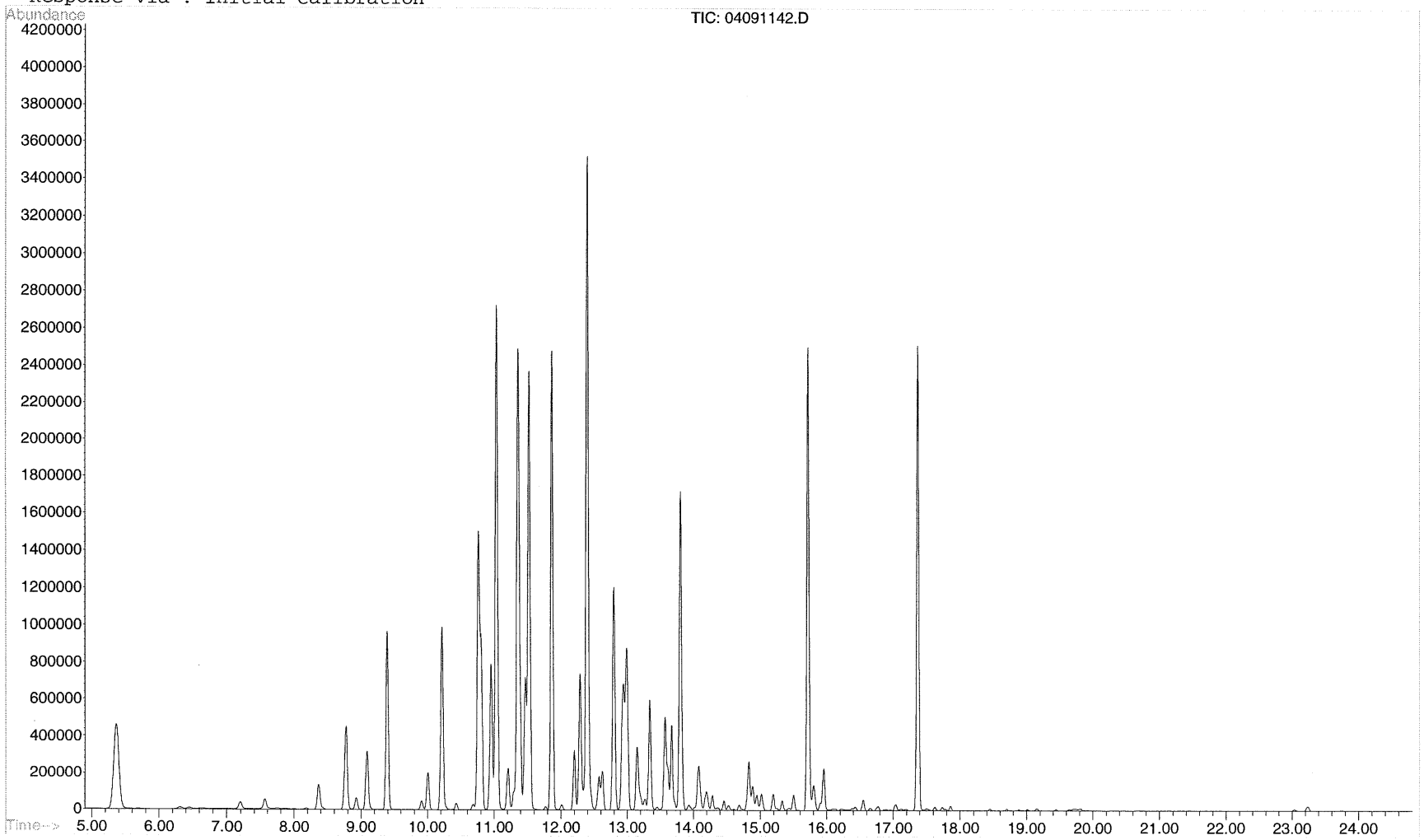
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1828823	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1129499	94.13	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 105.17%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	80100915m	702.29	ug/m3	
23) non C5-C8	6.44	TIC	28537	0.31	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	910171	12.84	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5749302	96.89	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1737602	18.00	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5745035	55.87	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4231885	41.77	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	18402532m	216.39	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	13455852m	186.85	ug/m3	
31) non C9-C12	15.72	TIC	5722187	60.33	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	380518	4.26	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	625948	7.15	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	136983	1.69	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5555653	86.87	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12421289m	147.74	ug/m3	
37) C9-C10 Aromatic	17.86	120	33587m	3.41	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	1796m	0.18	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	35383m	3.59	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091142.D Vial: 37
Acq On : 10 Apr 2011 6:31 pm Operator: Michael Truchan
Sample : 1103389-024B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:01 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091144.D Vial: 11
Acq On : 10 Apr 2011 7:54 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:02 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

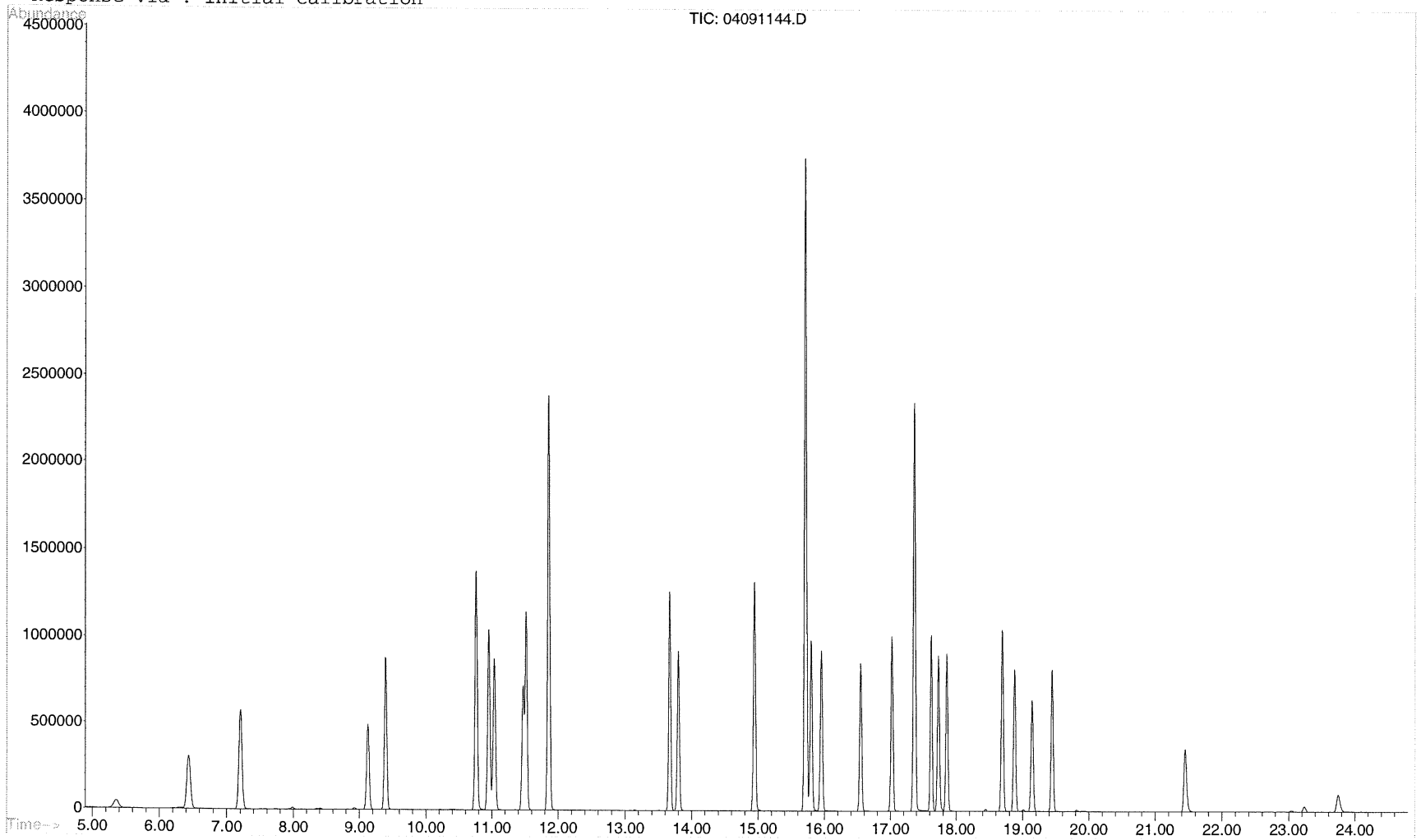
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1812434	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1057830	88.96	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.40%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	1935749	15.95	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2198793	20.19	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	2706607	22.67	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2260403	19.57	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	2479204	21.43	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	2669697	25.08	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	14250453m	124.94	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	2972931	28.11	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8109114	85.50	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2069089	28.75	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2336157	30.61	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1818163	32.96	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	1028997	34.80	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	18334451m	254.59	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	254373	26.91	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	257086	26.89	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	349977	27.99	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	69104	28.54	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	240604	27.18	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	191826	29.10	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1362970m	138.40	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091144.D Vial: 11
Acq On : 10 Apr 2011 7:54 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 14:02 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



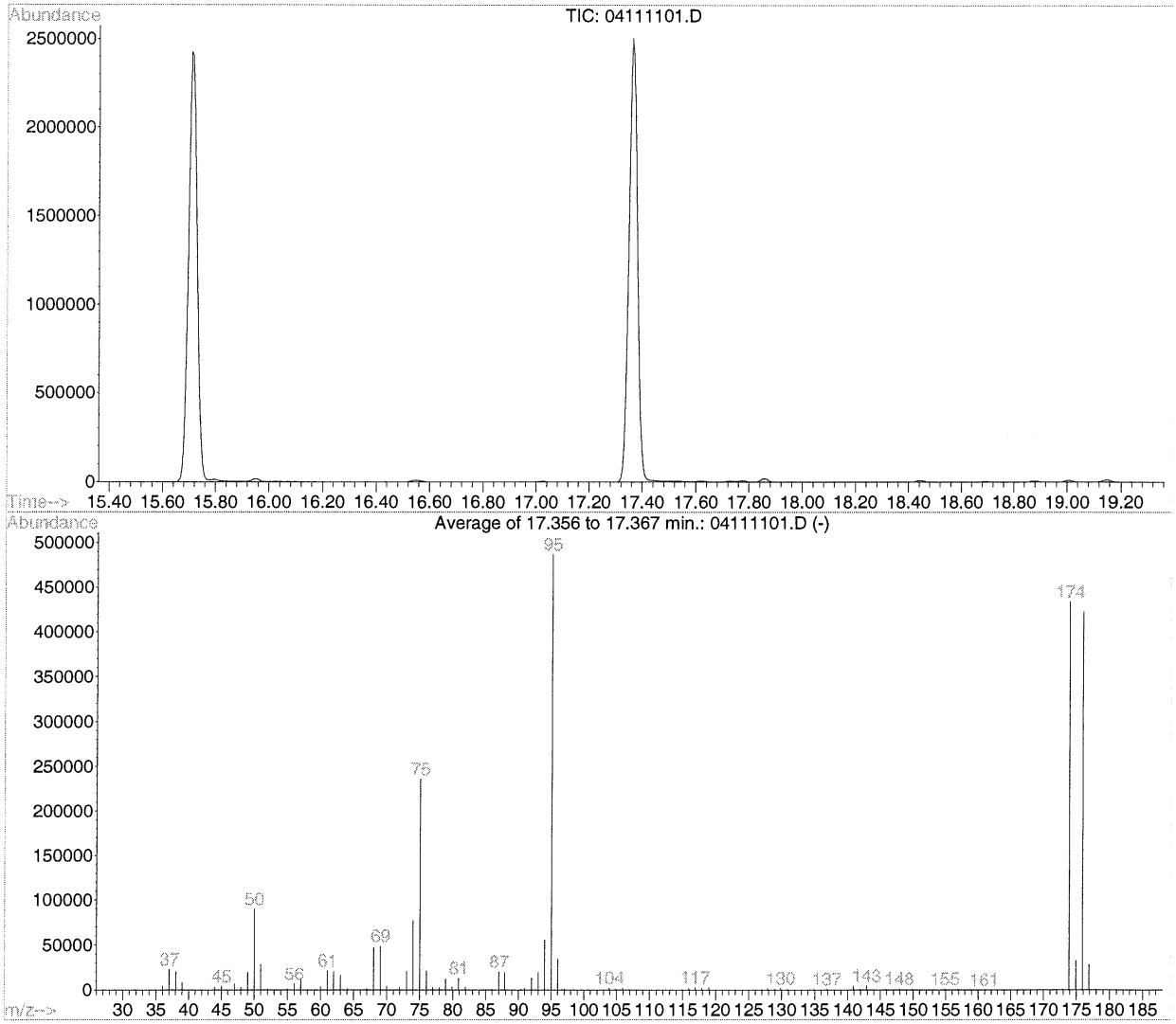
Injection Log

Directory: C:\HPCHEM\1\DATA\041111

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04111101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	11 Apr 2011 10:37
2	2	04111102.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	11 Apr 2011 11:19
3	3	04111103.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	11 Apr 2011 12:00
4	4	04111104.d	1.	MBLK 4/11/11	MBLK MA_APH	11 Apr 2011 12:44
5	5	04111105.d	80000.	1103389-025B	SAMP MA_APH	11 Apr 2011 13:24
6	6	04111106.d	80000.	1103389-025BDUP	DUP MA_APH	11 Apr 2011 14:05
7	7	04111107.d	160000.	1103389-026B	SAMP MA_APH	11 Apr 2011 14:45
8	8	04111108.d	80000.	1103389-027B	SAMP MA_APH	11 Apr 2011 15:25
9	9	04111109.d	80000.	1103389-028B	SAMP MA_APH	11 Apr 2011 16:06
10	10	04111110.d	8000.	1103389-029B	SAMP MA_APH	11 Apr 2011 16:47
11	11	04111111.d	8000.	1103389-030B	SAMP MA_APH	11 Apr 2011 17:27
12	12	04111112.d	8000.	1103389-031B	SAMP MA_APH	11 Apr 2011 18:08
13	13	04111113.d	8000.	1103389-032B	SAMP MA_APH	11 Apr 2011 18:47
14	14	04111114.d	40.	1103389-033B	SAMP MA_APH	11 Apr 2011 19:28
15	15	04111115.d	40.	1103389-034B	SAMP MA_APH	11 Apr 2011 20:09
16	16	04111116.d	40.	1103389-035B	SAMP MA_APH	11 Apr 2011 20:49
17	17	04111117.d	200.	1103389-036B	SAMP MA_APH	11 Apr 2011 21:36
18	18	04111118.d	400.	1103389-037B -> data not used mtch 4/15/11	SAMP MA_APH	11 Apr 2011 22:21
19	19	04111119.d	40.	1103389-038B ->	SAMP MA_APH	11 Apr 2011 23:02
20	4	04111120.d	1.	MBLK(2) 4/1/11	MBLK MA_APH	11 Apr 2011 23:45
21	5	04111121.d	4000.	1103609-001A	SAMP MA_APH	12 Apr 2011 00:26
22	6	04111122.d	4000.	1103609-001ADUP	DUP MA_APH	12 Apr 2011 01:07
23	7	04111123.d	40.	1103609-002A	SAMP MA_APH	12 Apr 2011 01:48
24	8	04111124.d	160000.	1103609-003A	SAMP MA_APH	12 Apr 2011 02:29
25	9	04111125.d	80000.	1103609-004A	SAMP MA_APH	12 Apr 2011 03:11
26	10	04111126.d	40000.	1103609-005A	SAMP MA_APH	12 Apr 2011 03:52
27	11	04111127.d	4000.	1103609-006A	SAMP MA_APH	12 Apr 2011 04:33
28	12	04111128.d	8000.	1103609-007A	SAMP MA_APH	12 Apr 2011 05:14
29	3	04111129.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	12 Apr 2011 05:56

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\041111\04111101.D Vial: 1
Acq On : 11 Apr 2011 10:37 am Operator: Michael Truchan
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : ical EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3



Spectrum Information: Average of 17.356 to 17.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	89947	PASS
75	95	30	60	48.5	236139	PASS
95	95	100	100	100.0	487040	PASS
96	95	5	9	7.0	34056	PASS
173	174	0.00	2	0.2	939	PASS
174	95	50	120	89.1	434133	PASS
175	174	4	9	7.5	32477	PASS
176	174	93	101	97.5	423317	PASS
177	176	5	9	6.6	28067	PASS

04111101.D 040911V1.M Wed Apr 13 19:10:52 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111102.D Vial: 2
Acq On : 11 Apr 2011 11:19 am Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

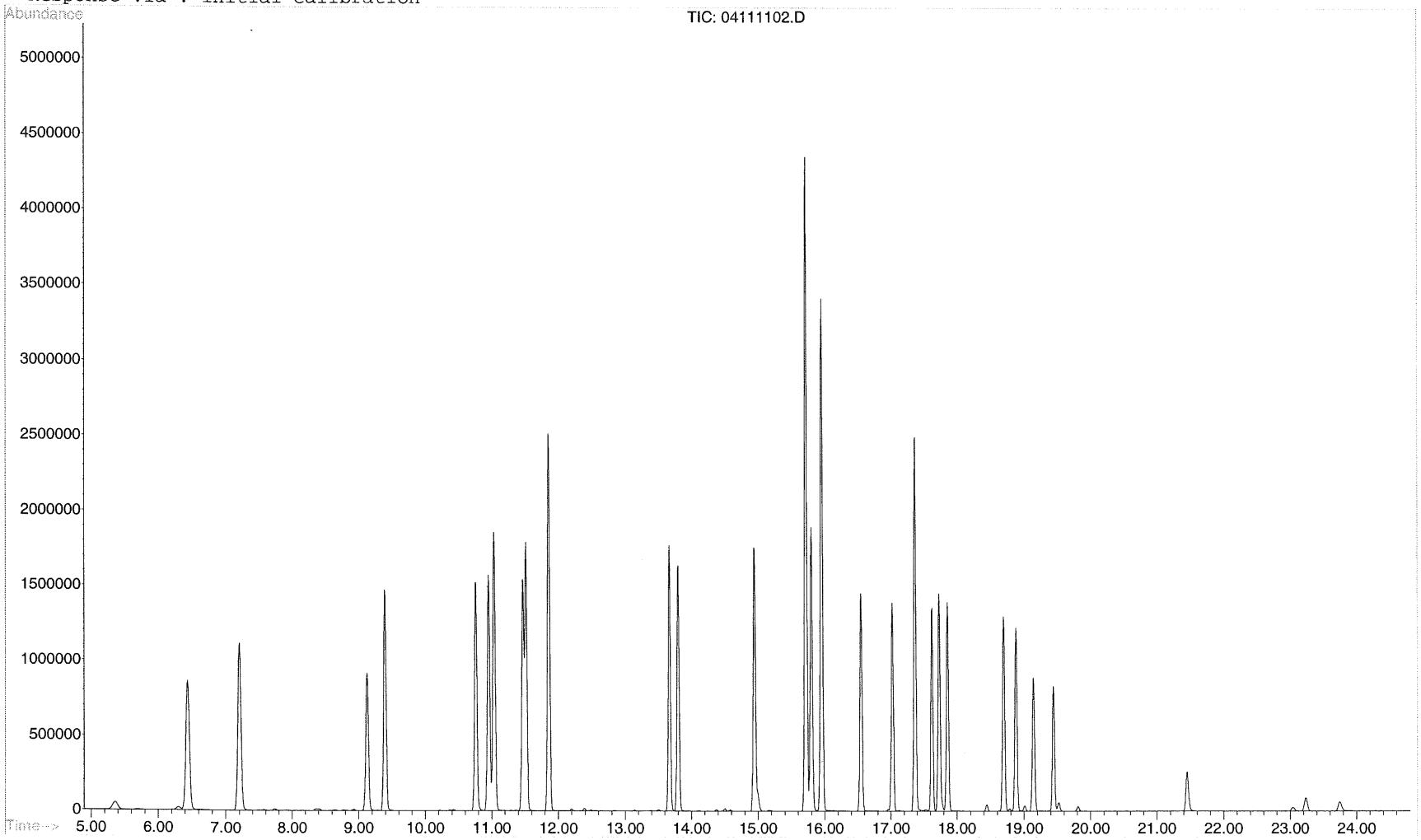
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1917581	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1131354	89.92	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.47%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	3692227	30.42	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	3670678	33.71	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	4007348	33.56	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	4756118	41.18	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	3781518	32.69	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3763055	35.35	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	23670944m	207.54	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	4246136	40.15	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	9311625	98.18	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2743075	38.11	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	2935996	38.47	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1862708	33.77	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	736258	24.90	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	21835798m	303.21	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	351151	37.15	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	425903	44.55	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	531576	42.52	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	104563	43.19	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	330458	37.33	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	289510	43.92	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2033161m	206.45	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111102.D Vial: 2
Acq On : 11 Apr 2011 11:19 am Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111103.D Vial: 3
Acq On : 11 Apr 2011 12:00 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

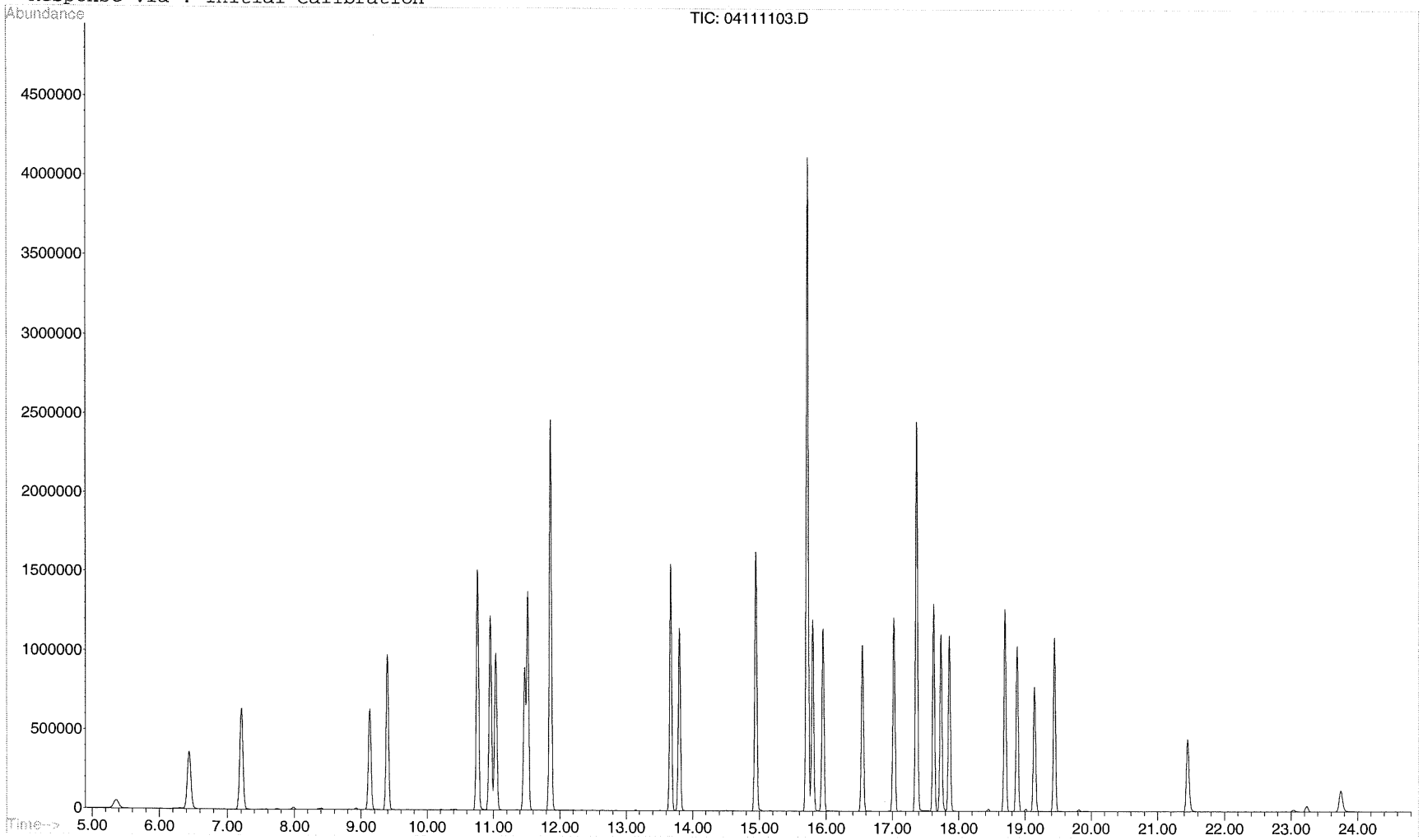
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1880164	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1101916	89.33	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.81%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2127731	17.53	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2468328	22.67	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	3147713	26.36	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.04	TIC	2568988	22.24	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	3016497	26.07	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3263252	30.65	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	16592509m	145.48	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3654025	34.55	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8954560	94.41	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2658886	36.94	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2845000	37.28	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	2382282	43.18	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	1286280	43.50	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	21781033m	302.45	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	311735	32.98	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	324140	33.90	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	431378	34.50	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	89712	37.05	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	299264	33.81	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	247311	37.52	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1703540m	172.98	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111103.D Vial: 3
Acq On : 11 Apr 2011 12:00 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111104.D Vial: 4
Acq On : 11 Apr 2011 12:44 pm Operator: Michael Truchan
Sample : MBLK 4/11/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:45 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

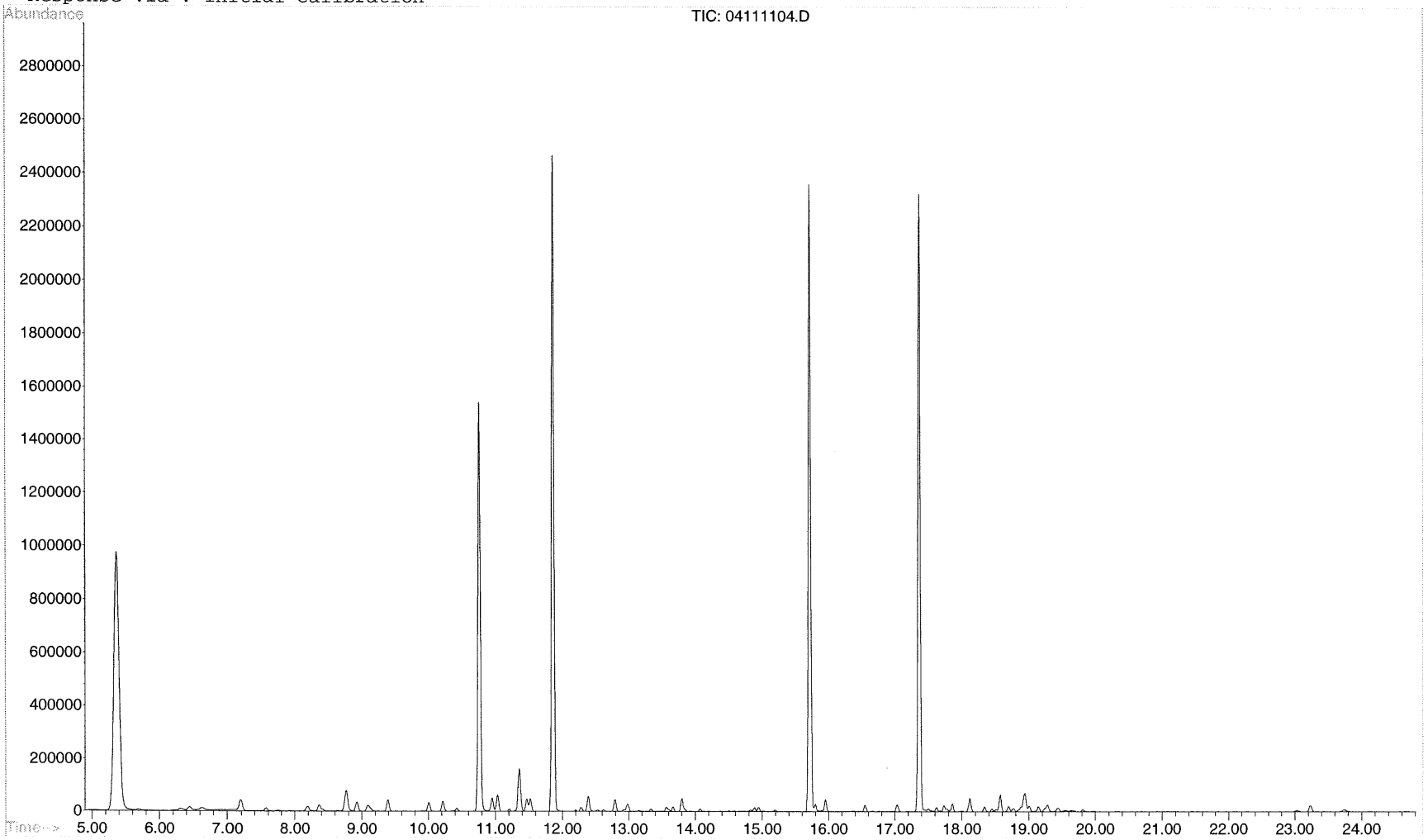
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1783600	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1043830	89.20	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.66%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	12563764m	110.15	ug/m3	
23) non C5-C8	6.45	TIC	42063	0.46	ug/m3	100
24) non C5-C8 {2}	9.10	TIC	88409	1.25	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3829303	64.53	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	117357	1.22	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5671269	55.15	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	132172	1.30	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9880573m	116.18	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	12060360m	167.47	ug/m3	
31) non C9-C12	15.71	TIC	5348681	56.39	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	57417	0.64	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	101006	1.15	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	55100	0.68	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5160531	80.69	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10722735m	103.19	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111104.D 040911V1.M Wed Apr 13 19:11:09 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111104.D Vial: 4
Acq On : 11 Apr 2011 12:44 pm Operator: Michael Truchan
Sample : MBLK 4/11/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:45 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111105.D Vial: 5
Acq On : 11 Apr 2011 1:24 pm Operator: Michael Truchan
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:46 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

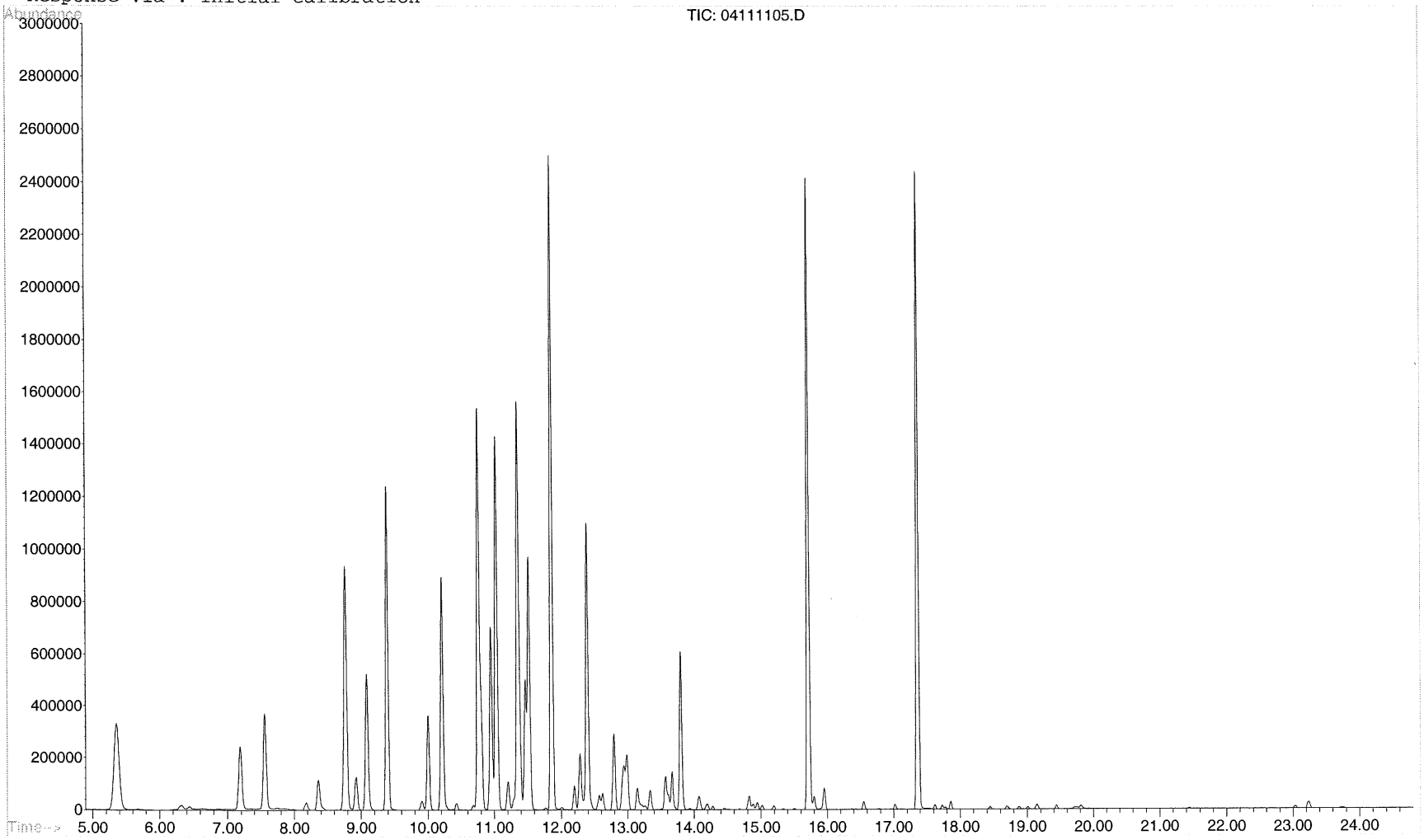
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1826005	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1106537	92.36	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.20%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	47592996m	417.27	ug/m3	
23) non C5-C8	6.44	TIC	32686	0.36	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1461217	20.61	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4742510	79.92	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1265315	13.10	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5744915	55.87	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1463366	14.44	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14710009m	172.97	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	11799822m	163.85	ug/m3	
31) non C9-C12	15.71	TIC	5501870	58.01	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	111167	1.24	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	193738	2.21	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	63630	0.78	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5425243	84.83	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11295648m	134.35	ug/m3	
37) C9-C10 Aromatic	17.86	120	34067m	3.46	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2694m	0.27	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	36761m	3.73	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111105.D Vial: 5
Acq On : 11 Apr 2011 1:24 pm Operator: Michael Truchan
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:46 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111106.D Vial: 6
Acq On : 11 Apr 2011 2:05 pm Operator: Michael Truchan
Sample : 1103389-025BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:47 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

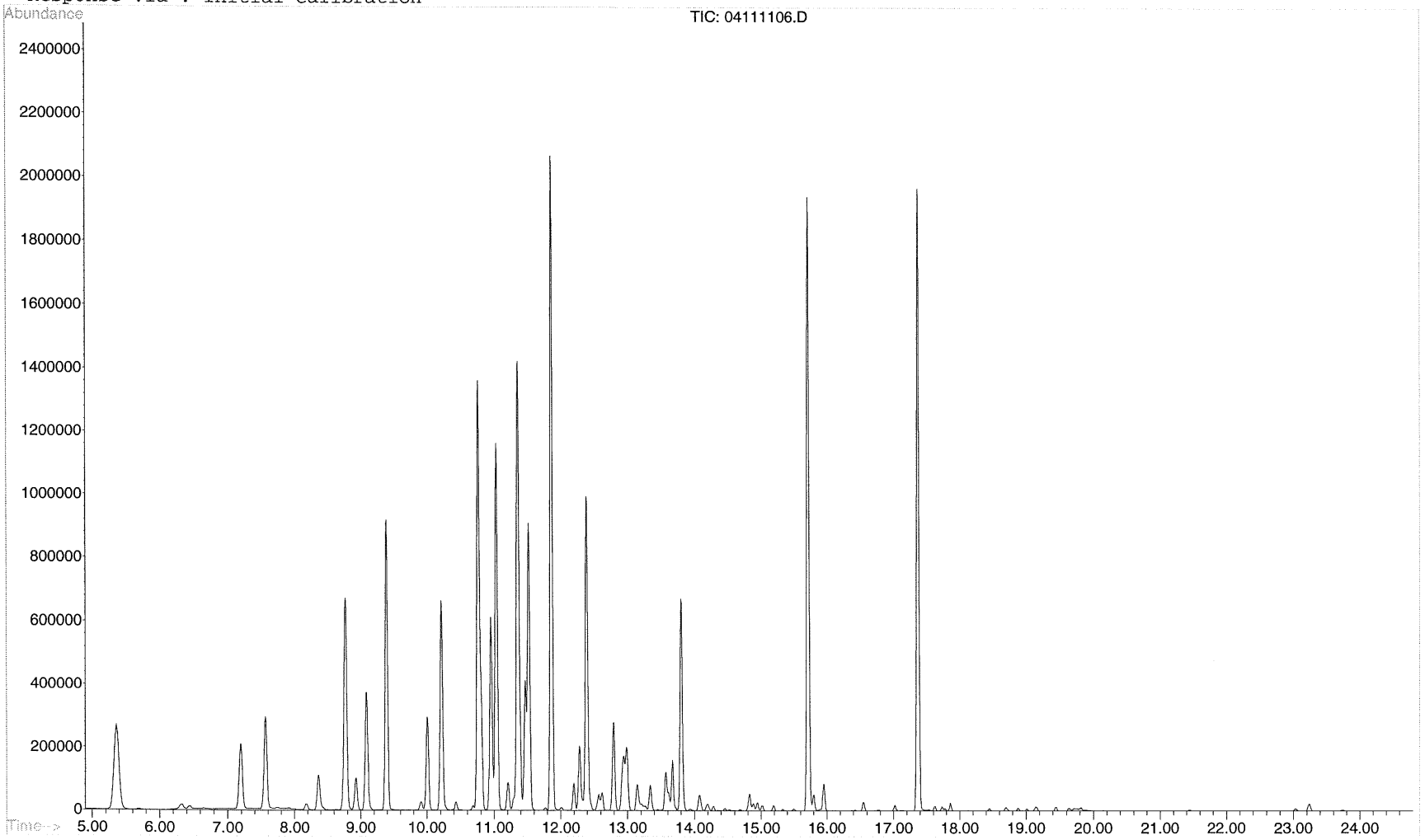
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1489921	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	889839	91.03	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.71%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	40993748m	359.41	ug/m3	
23) non C5-C8	6.45	TIC	32727	0.36	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1070439	15.10	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4187963	70.58	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1000195	10.36	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4700599	45.71	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1606323	15.86	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	12598246m	148.14	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	9715881m	134.92	ug/m3	
31) non C9-C12	15.71	TIC	4492644	47.37	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	116780	1.31	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	202875	2.32	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	60250	0.74	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	4354054	68.08	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	9226603m	109.74	ug/m3	
37) C9-C10 Aromatic	17.86	120	29190m	2.96	ug/m3	
38) C9-C10 Aromatic {2}	18.89	134	2001m	0.20	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	31191m	3.17	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111106.D 040911V1.M Wed Apr 13 19:11:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111106.D Vial: 6
Acq On : 11 Apr 2011 2:05 pm Operator: Michael Truchan
Sample : 1103389-025BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:47 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111107.D Vial: 7
Acq On : 11 Apr 2011 2:45 pm Operator: Michael Truchan
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:48 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

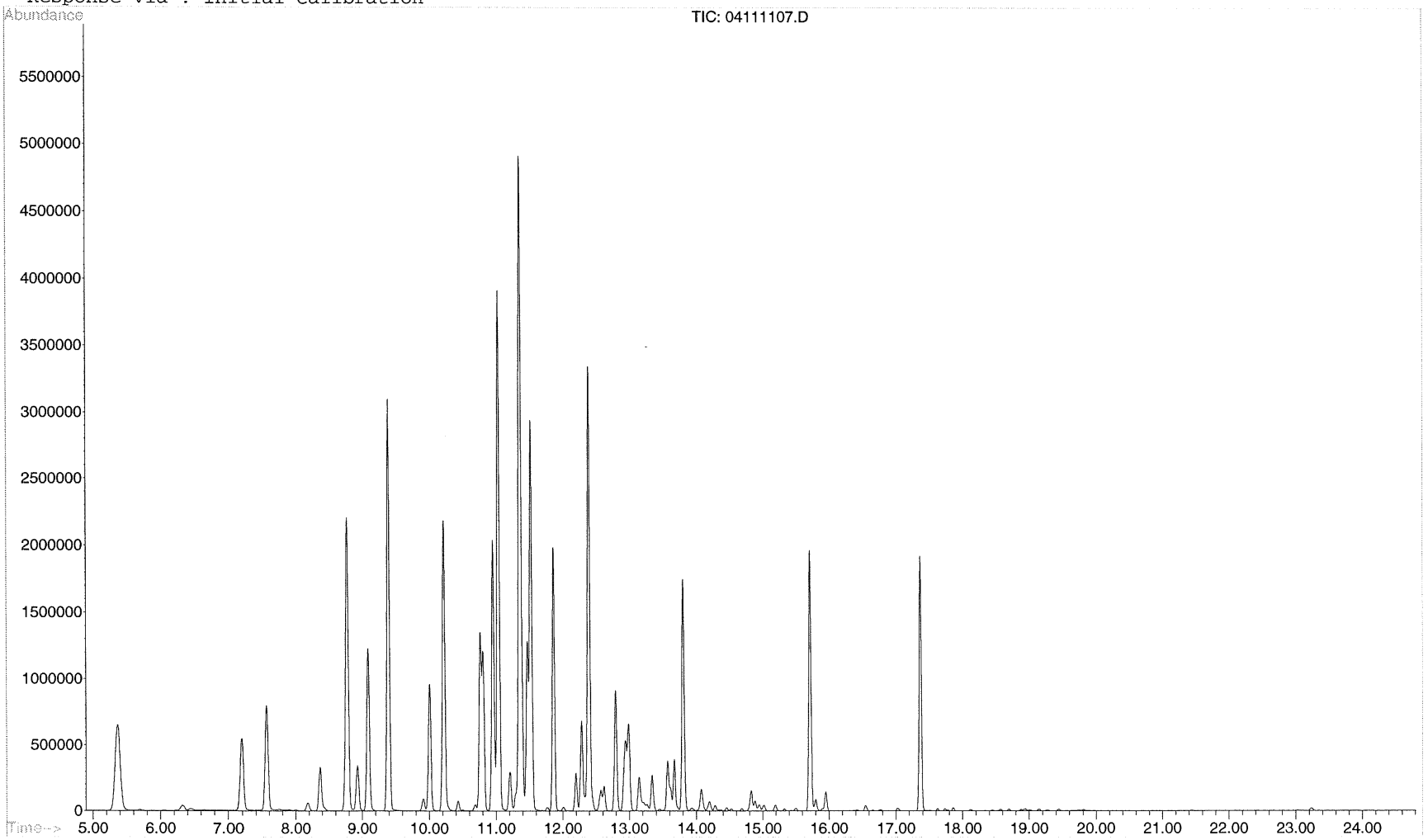
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1468713	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	867980	90.07	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.64%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	113057269m	991.24	ug/m3	
23) non C5-C8	6.44	TIC	48712	0.54	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	3416380	48.18	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3365335	56.71	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	2974389	30.80	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4592363	44.66	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4200078	41.46	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	18597257m	218.68	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	10187859m	141.47	ug/m3	
31) non C9-C12	15.72	TIC	4523035	47.69	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	215025	2.41	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	381979	4.36	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	95915	1.18	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4278506	66.90	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	9494460m	112.93	ug/m3	
37) C9-C10 Aromatic	17.86	120	30917m	3.14	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2739m	0.28	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	33656m	3.42	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111107.D Vial: 7
Acq On : 11 Apr 2011 2:45 pm Operator: Michael Truchan
Sample : 1103389-026B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:48 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111108.D Vial: 8
Acq On : 11 Apr 2011 3:25 pm Operator: Michael Truchan
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:49 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

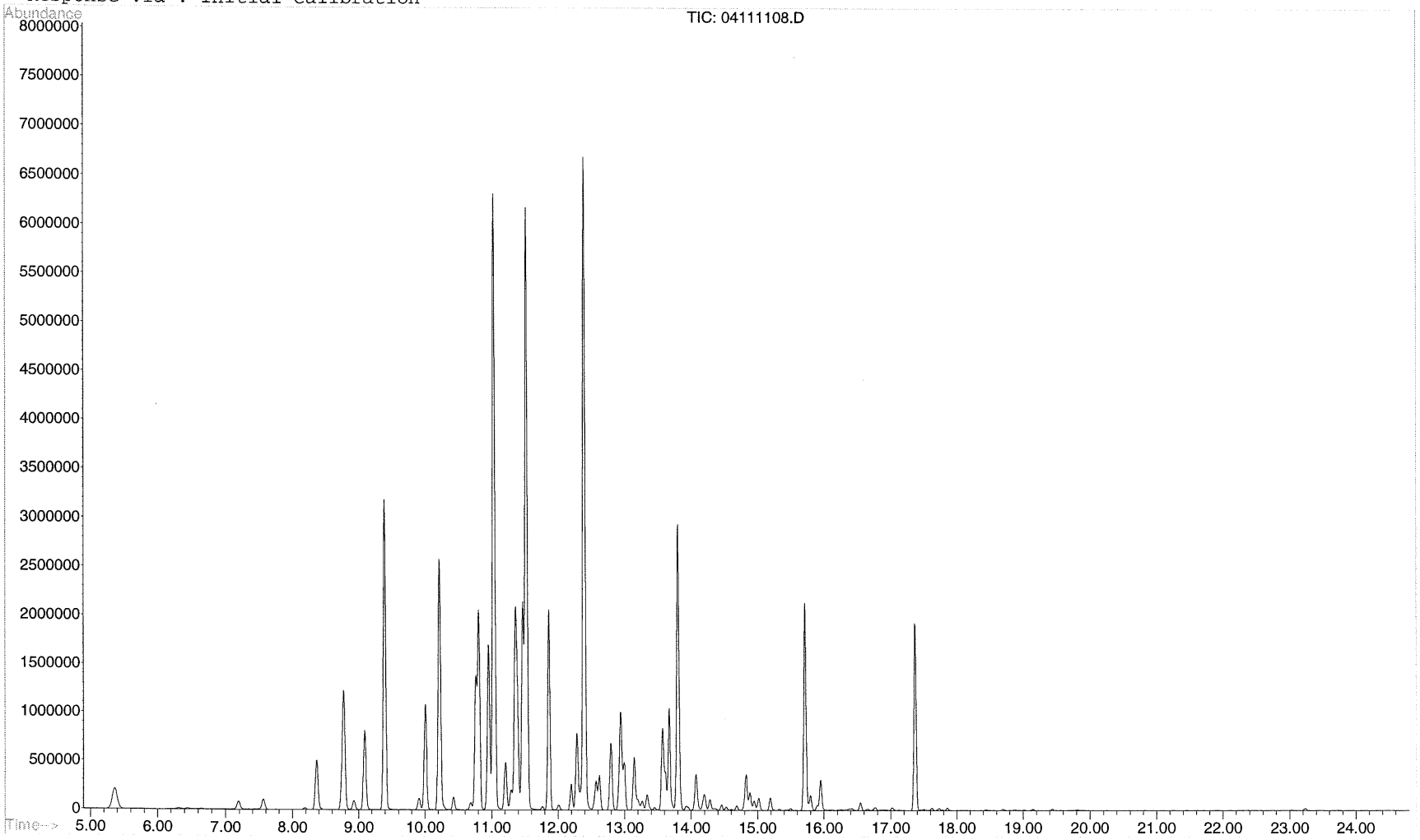
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1515279	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	876204	88.13	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.47%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	136577451m	1197.45	ug/m3	
23) non C5-C8	6.45	TIC	28800	0.32	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	2243113	31.63	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3082006	51.94	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	4741928	49.11	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4727787	45.98	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	7038310	69.47	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21861944m	257.06	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11466597m	159.23	ug/m3	
31) non C9-C12	15.71	TIC	4893948	51.60	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	371613	4.16	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	823152	9.40	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	188263	2.32	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4298486	67.21	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10575462m	125.79	ug/m3	
37) C9-C10 Aromatic	17.86	120	34996m	3.55	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	1980m	0.20	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	36976m	3.75	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111108.D 040911V1.M Wed Apr 13 19:11:30 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111108.D Vial: 8
Acq On : 11 Apr 2011 3:25 pm Operator: Michael Truchan
Sample : 1103389-027B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:49 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111109.D Vial: 9
Acq On : 11 Apr 2011 4:06 pm Operator: Michael Truchan
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:50 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

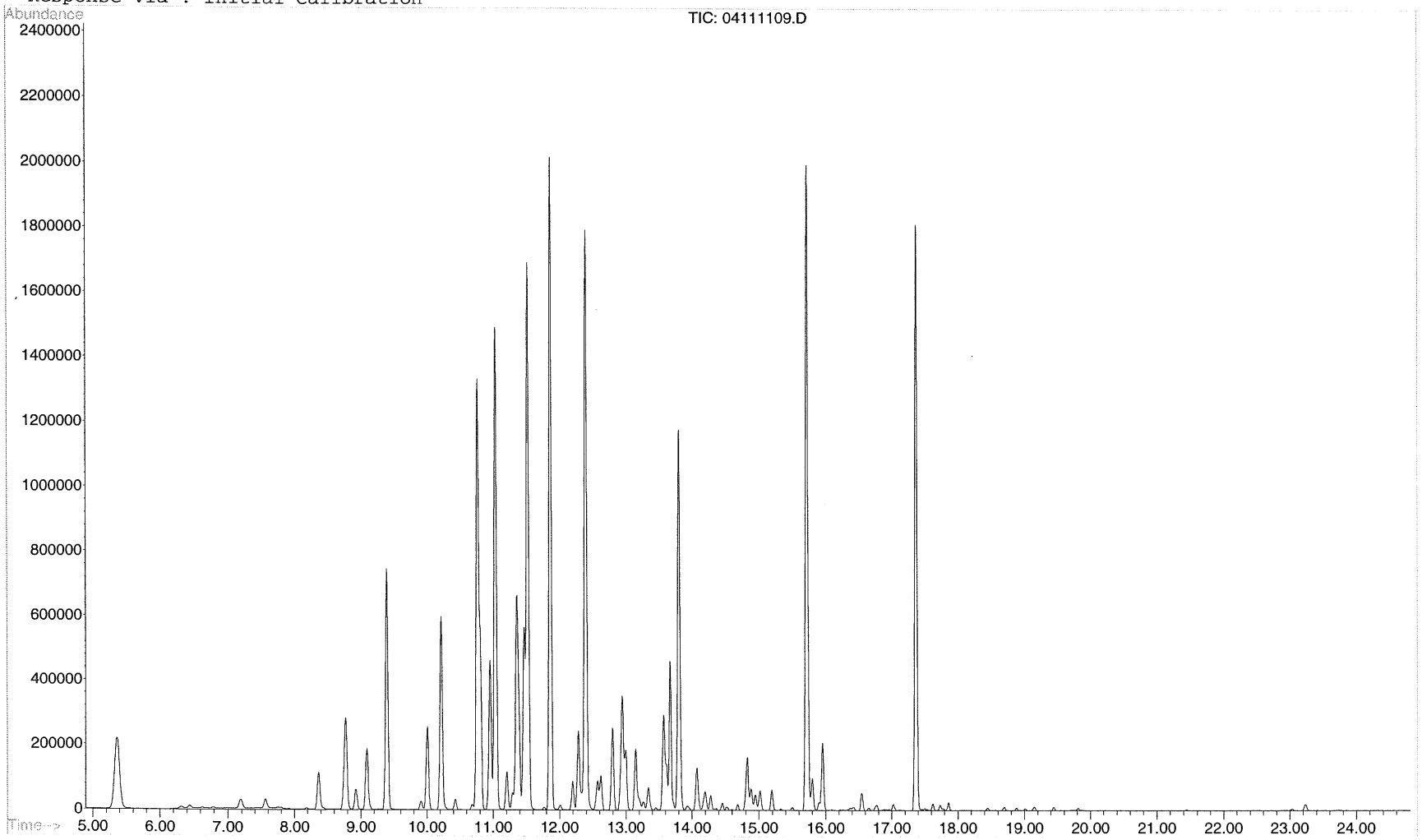
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1468263	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	836084	86.79	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 96.97%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	44773223m	392.55	ug/m3	
23) non C5-C8	6.44	TIC	28421	0.31	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	536580	7.57	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4469603	75.32	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1320699	13.68	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4648019	45.20	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2849870	28.13	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	13853192m	162.89	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10134649m	140.73	ug/m3	
31) non C9-C12	15.71	TIC	4606722	48.57	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	233162	2.61	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	482882	5.51	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	122725	1.51	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4096992	64.06	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	9542483m	113.50	ug/m3	
37) C9-C10 Aromatic	17.86	120	31877m	3.24	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2153m	0.22	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	34030m	3.46	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111109.D 040911V1.M Wed Apr 13 19:11:41 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111109.D Vial: 9
Acq On : 11 Apr 2011 4:06 pm Operator: Michael Truchan
Sample : 1103389-028B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:50 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111110.D Vial: 10
Acq On : 11 Apr 2011 4:47 pm Operator: Michael Truchan
Sample : 1103389-029B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:50 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

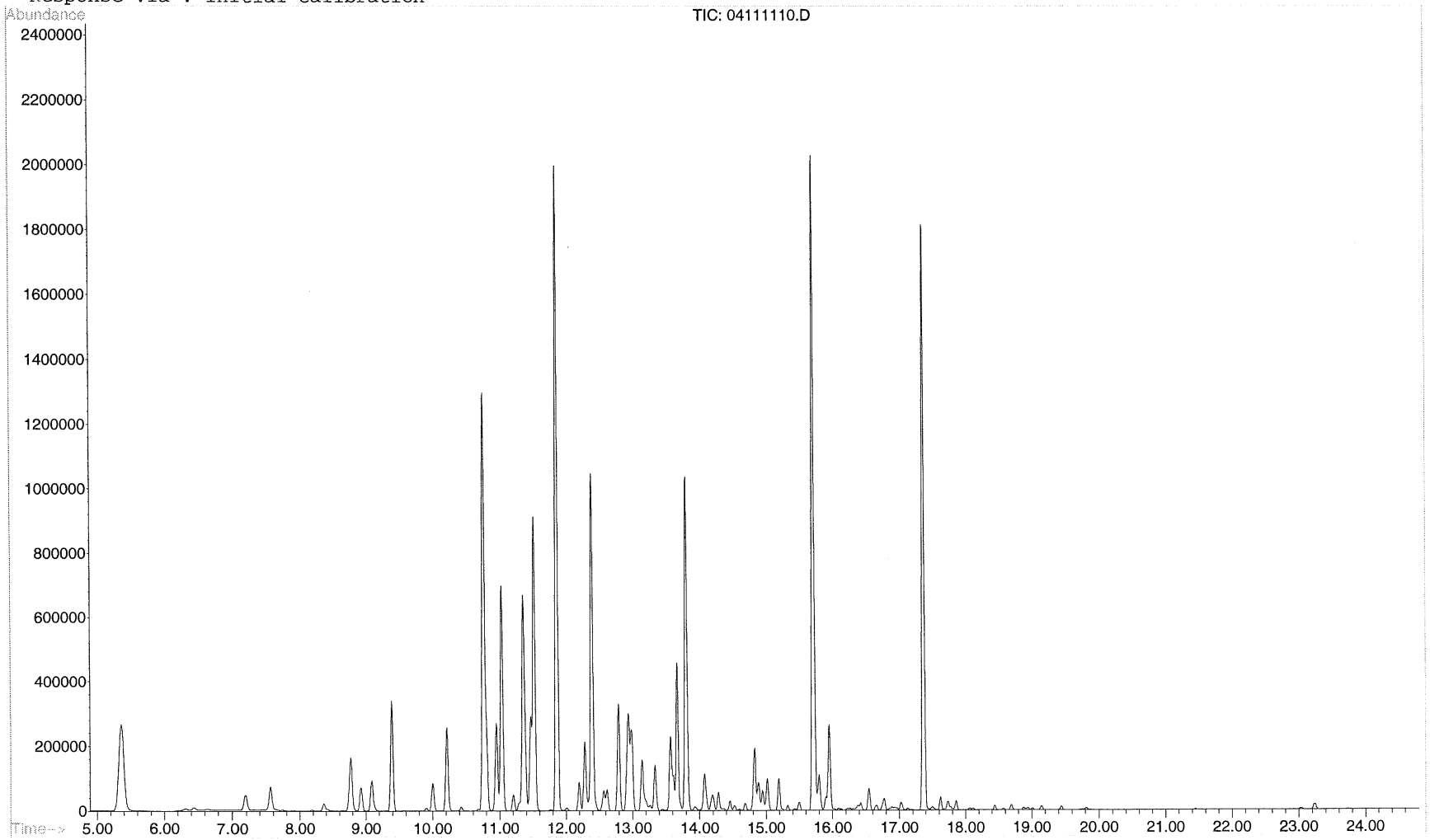
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1431762	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	819073	87.19	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 97.42%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	33244261m	291.47	ug/m3	
23) non C5-C8	6.45	TIC	26157	0.29	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	272380	3.84	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3752084	63.23	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	692926	7.18	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4588149	44.62	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2499240	24.67	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	11830936m	139.11	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10864840m	150.87	ug/m3	
31) non C9-C12	15.71	TIC	4679707	49.34	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	258512	2.89	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	683273	7.80	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	162468	2.00	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4033682	63.07	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	9817642m	116.77	ug/m3	
37) C9-C10 Aromatic	17.86	120	39978m	4.06	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2044m	0.21	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	42022m	4.27	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111110.D Vial: 10
Acq On : 11 Apr 2011 4:47 pm Operator: Michael Truchan
Sample : 1103389-029B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:50 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111111.D Vial: 11
Acq On : 11 Apr 2011 5:27 pm Operator: Michael Truchan
Sample : 1103389-030B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:51 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

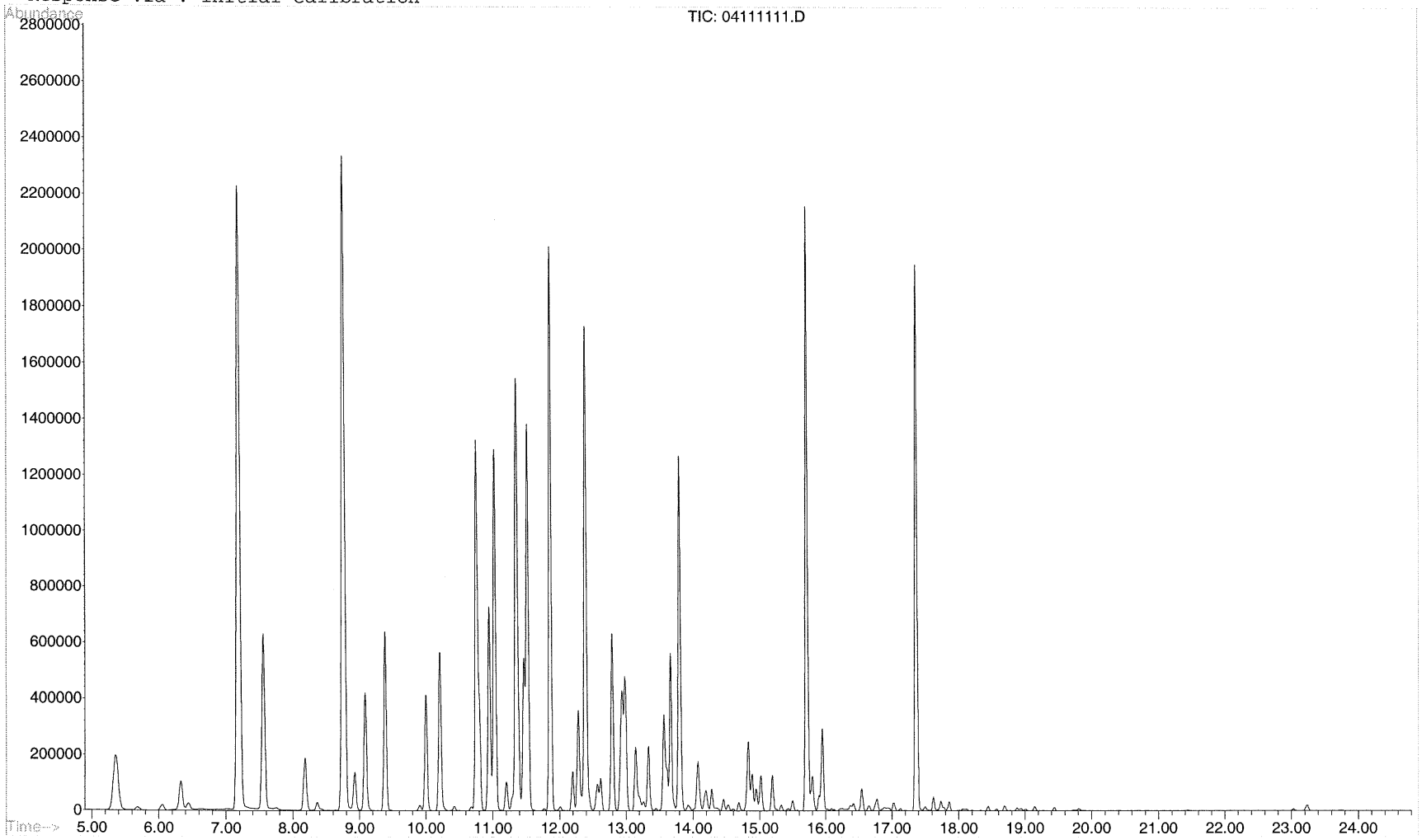
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1495621	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	884967	90.18	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.76%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.76	TIC	68572358m	601.21	ug/m3	
23) non C5-C8	6.44	TIC	82857	0.91	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	1187907	16.75	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4126732	69.54	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	1344156	13.92	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4628599	45.01	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	3100177	30.60	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14470428m	170.15	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11911742m	165.41	ug/m3	
31) non C9-C12	15.71	TIC	4966603	52.37	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	314942	3.52	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	703150	8.03	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	191512	2.36	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4359706	68.17	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10535913m	125.32	ug/m3	
37) C9-C10 Aromatic	17.87	120	46950m	4.77	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2411m	0.24	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	49361m	5.01	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111111.D Vial: 11
Acq On : 11 Apr 2011 5:27 pm Operator: Michael Truchan
Sample : 1103389-030B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:51 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111112.D Vial: 12
Acq On : 11 Apr 2011 6:08 pm Operator: Michael Truchan
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:52 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

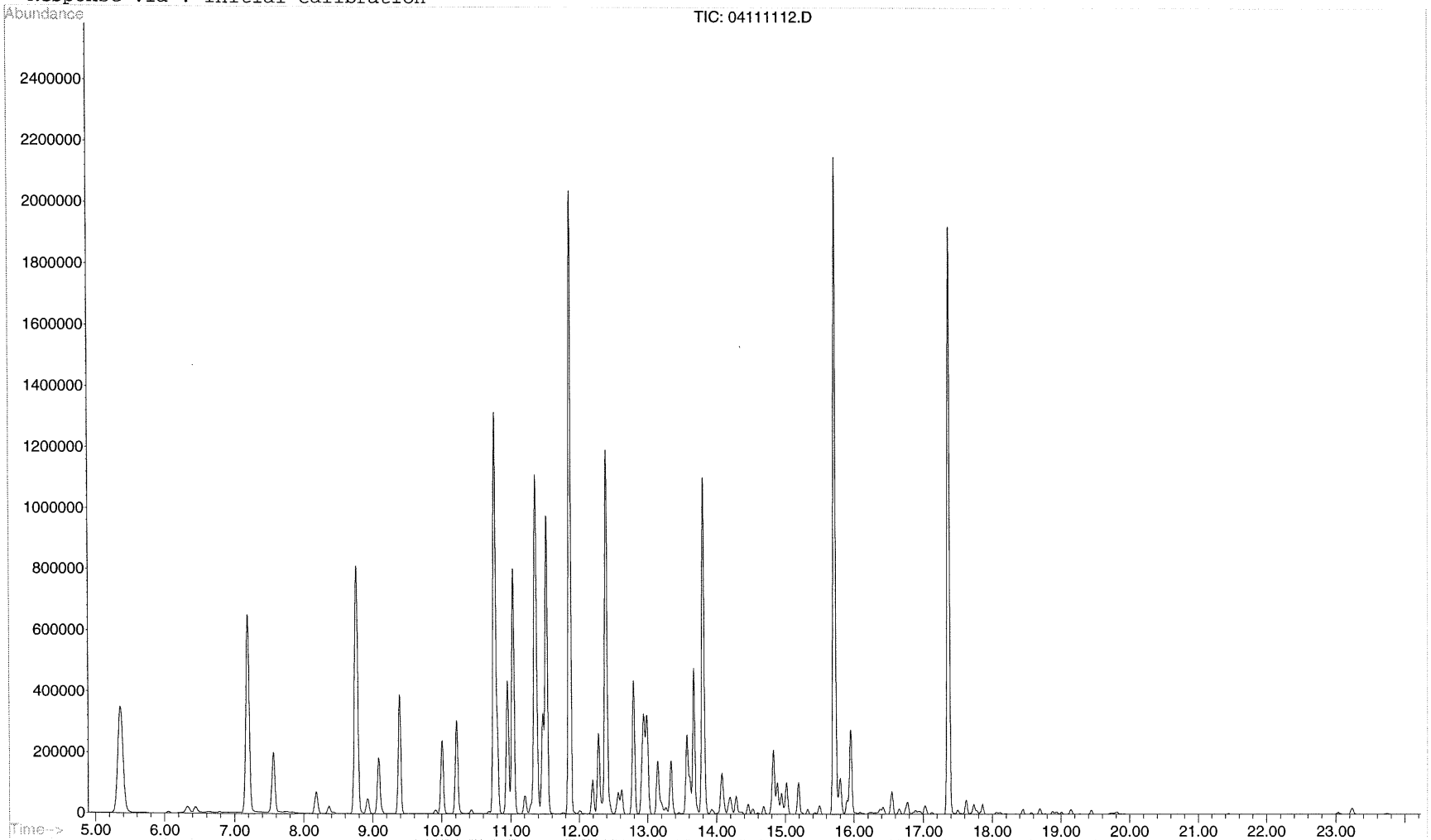
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1511145	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	883349	89.09	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.54%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	43558221m	381.90	ug/m3	
23) non C5-C8	6.44	TIC	59700	0.66	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	528862	7.46	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3876275	65.32	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	763117	7.90	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4706071	45.77	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2658526	26.24	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	12592551m	148.07	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11695527m	162.40	ug/m3	
31) non C9-C12	15.71	TIC	4949502	52.19	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	280820	3.14	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	751274	8.58	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	177620	2.19	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	4339509	67.85	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	10498725m	124.87	ug/m3	
37) C9-C10 Aromatic	17.86	120	45520m	4.62	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	2865m	0.29	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	48385m	4.91	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111112.D 040911V1.M Wed Apr 13 19:11:53 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111112.D Vial: 12
Acq On : 11 Apr 2011 6:08 pm Operator: Michael Truchan
Sample : 1103389-031B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:52 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111113.D Vial: 13
Acq On : 11 Apr 2011 6:47 pm Operator: Michael Truchan
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:53 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

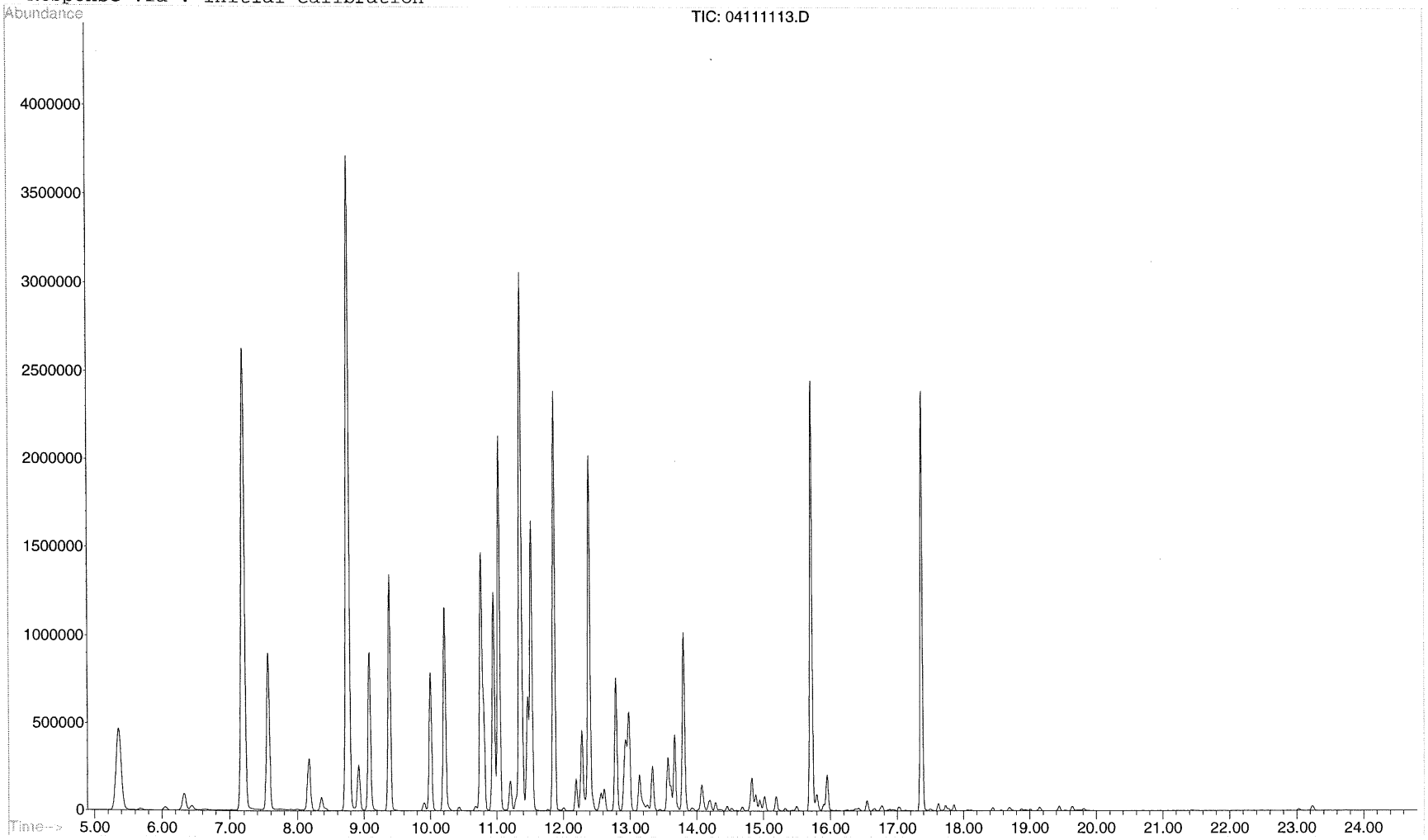
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1755736	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1095828	95.13	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.29%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	92921397m	814.69	ug/m3	
23) non C5-C8	6.45	TIC	87658	0.97	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2549455	35.95	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4974135	83.83	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1560859	16.17	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5477180	53.27	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2504351	24.72	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17153638m	201.70	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	13171226m	182.90	ug/m3	
31) non C9-C12	15.71	TIC	5634643	59.41	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	234874	2.63	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	491596	5.61	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	139783	1.72	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5367537	83.92	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11868433m	141.17	ug/m3	
37) C9-C10 Aromatic	17.85	120	48508m	4.93	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	2813m	0.29	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	51321m	5.21	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111113.D Vial: 13
Acq On : 11 Apr 2011 6:47 pm Operator: Michael Truchan
Sample : 1103389-032B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:53 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111114.D Vial: 14
Acq On : 11 Apr 2011 7:28 pm Operator: Michael Truchan
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:54 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

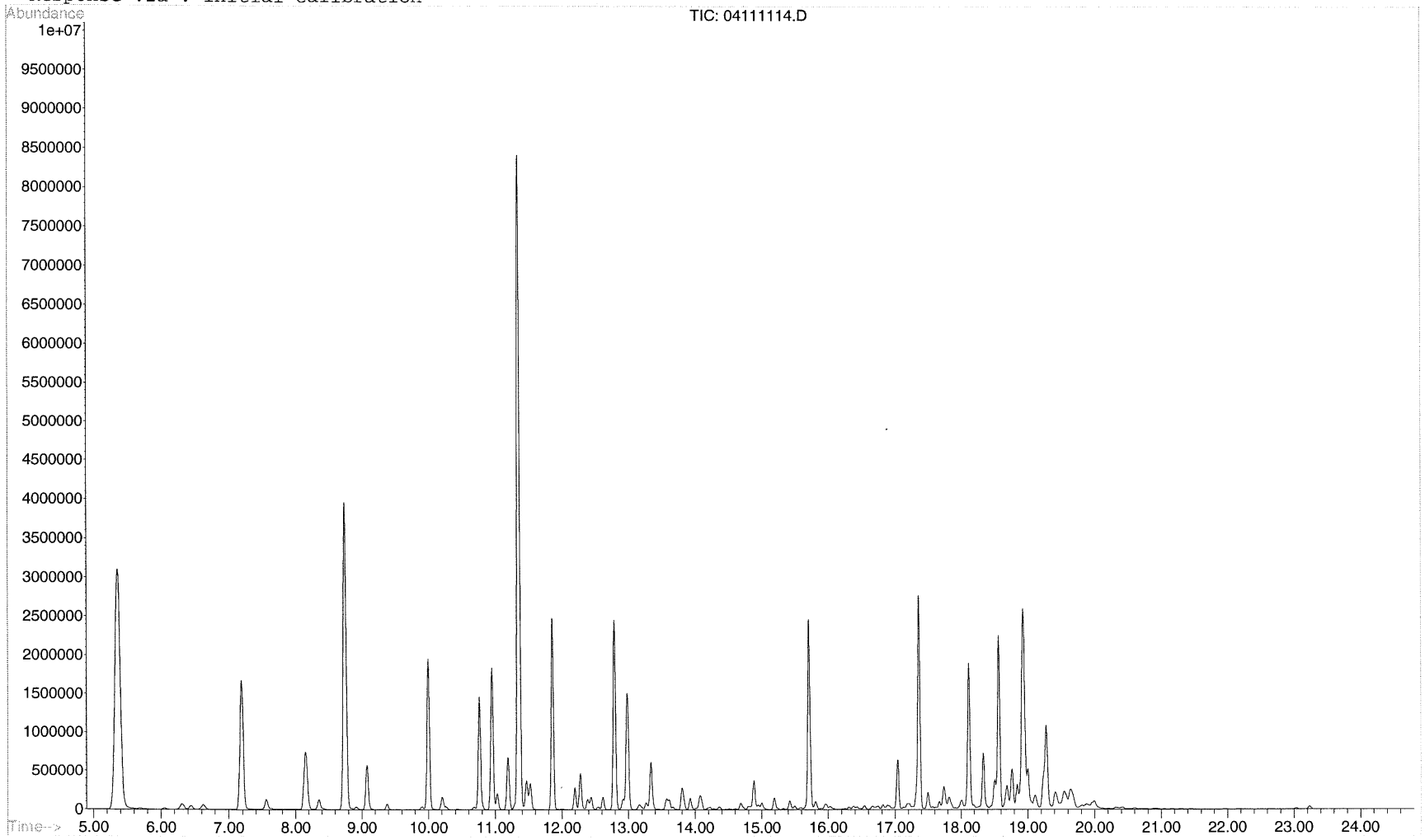
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1839065	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1169239	96.90	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.27%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	93400954m	818.90	ug/m3	
23) non C5-C8	6.45	TIC	163994	1.81	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1613276	22.75	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3698551	62.33	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	945283	9.79	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5705675	55.49	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	848378	8.37	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	12975157m	152.57	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	57156077m	793.67	ug/m3	
31) non C9-C12	15.71	TIC	5886955	62.07	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	242672	2.71	ug/m3	100
33) non C9-C12 {3}	15.97	TIC	194432	2.22	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	118010	1.46	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	6849369	107.09	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	13291438m	158.09	ug/m3	
37) C9-C10 Aromatic	17.85	120	41396m	4.20	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3806m	0.39	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	45202m	4.59	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111114.D Vial: 14
Acq On : 11 Apr 2011 7:28 pm Operator: Michael Truchan
Sample : 1103389-033B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:54 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111115.D Vial: 15
Acq On : 11 Apr 2011 8:09 pm Operator: Michael Truchan
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:54 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

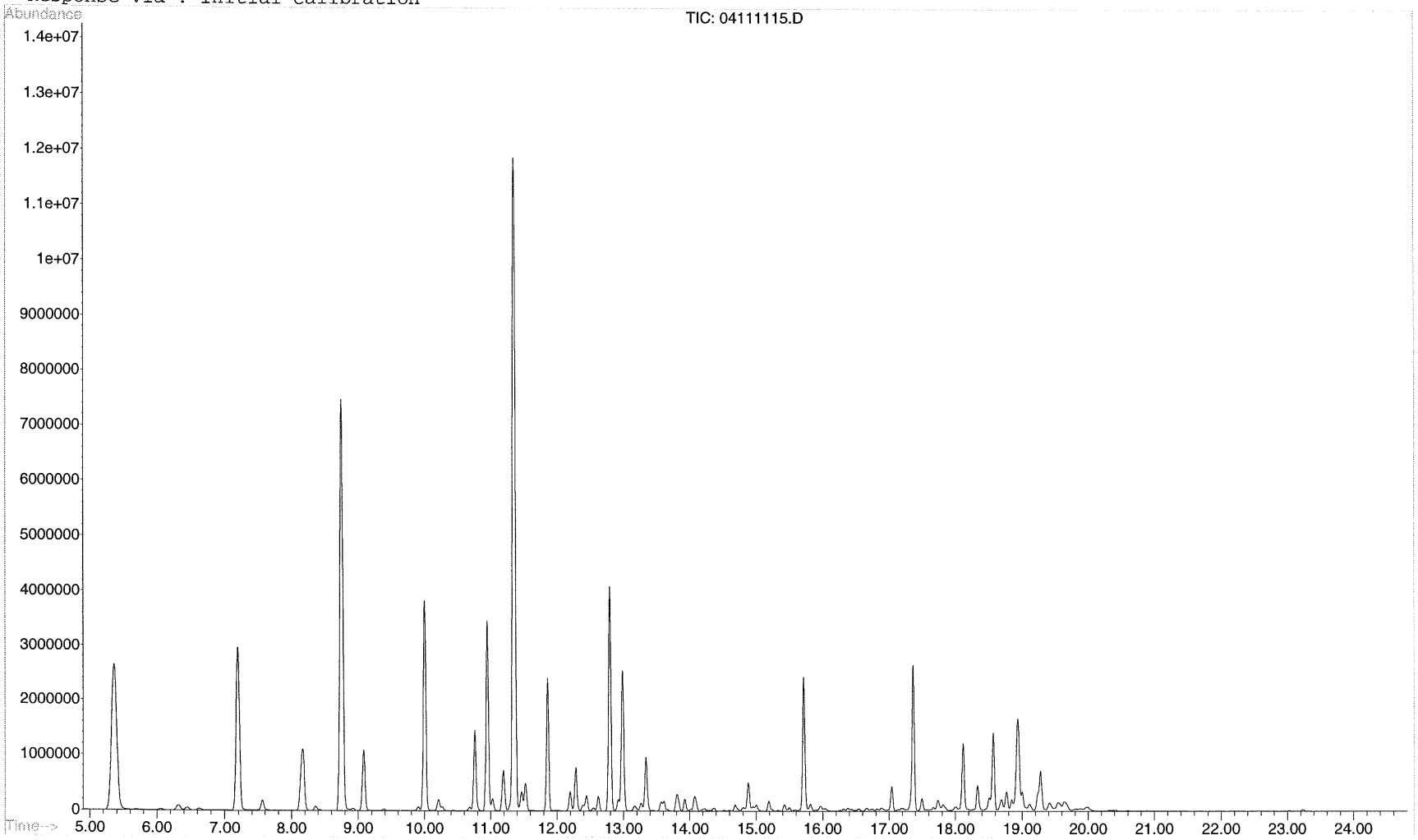
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1792417	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1147417	97.57	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 109.02%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	147622996m	1294.29	ug/m3	
23) non C5-C8	6.44	TIC	185015	2.04	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	3046435	42.96	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3656634	61.62	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	860710	8.91	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5491835	53.41	ug/m3	100
28) non C5-C8 {6}	13.81	TIC	996414	9.84	ug/m3	100
29) non C5-C8 - TOTAL	13.81	TIC	14237043m	167.41	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	43218751m	600.14	ug/m3	
31) non C9-C12	15.71	TIC	5769091	60.83	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	300775	3.36	ug/m3	100
33) non C9-C12 {3}	15.97	TIC	233145	2.66	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	111036	1.37	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	6355854	99.38	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12769901m	151.89	ug/m3	
37) C9-C10 Aromatic	17.86	120	39944m	4.06	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3411m	0.35	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	43355m	4.40	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111115.D Vial: 15
Acq On : 11 Apr 2011 8:09 pm Operator: Michael Truchan
Sample : 1103389-034B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:54 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111116.D Vial: 16
Acq On : 11 Apr 2011 8:49 pm Operator: Michael Truchan
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:55 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

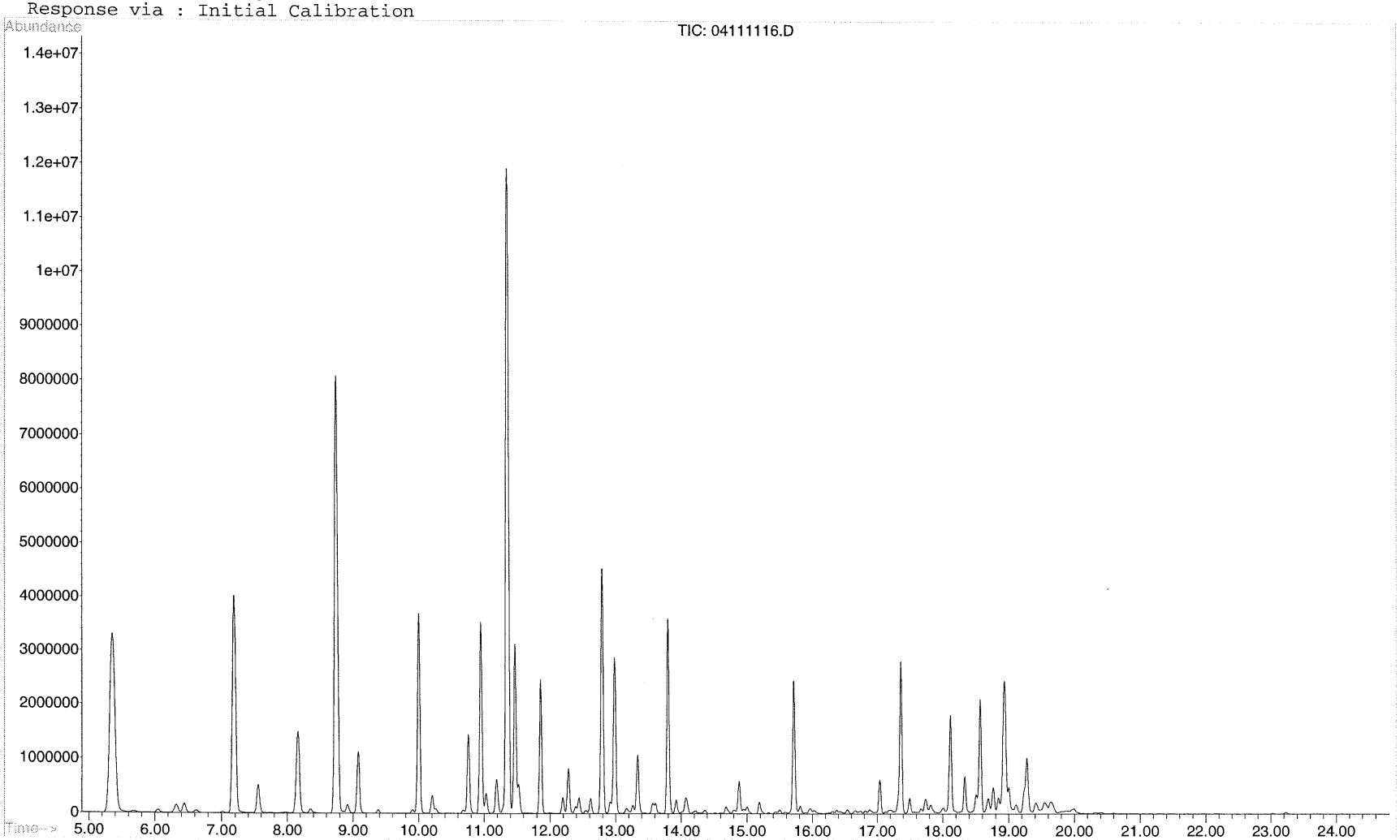
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1820309	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1173254	98.24	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 109.77%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	175429095m	1538.08	ug/m3	
23) non C5-C8	6.45	TIC	592334	6.52	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	3121540	44.02	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3665520	61.77	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	7346818	76.09	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5608989	54.55	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	8484336	83.75	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	28819537m	338.88	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	56577795m	785.64	ug/m3	
31) non C9-C12	15.71	TIC	5941021	62.64	ug/m3	100
32) non C9-C12 {2}	15.81	TIC	334838	3.75	ug/m3	100
33) non C9-C12 {3}	15.97	TIC	268333	3.06	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	196939	2.43	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	6852034	107.14	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	13593165m	161.68	ug/m3	
37) C9-C10 Aromatic	17.85	120	38519m	3.91	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	3421m	0.35	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	41940m	4.26	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111116.D Vial: 16
Acq On : 11 Apr 2011 8:49 pm Operator: Michael Truchan
Sample : 1103389-035B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:55 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111119.D Vial: 19
Acq On : 11 Apr 2011 11:02 pm Operator: Michael Truchan
Sample : 1103389-038B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:50 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

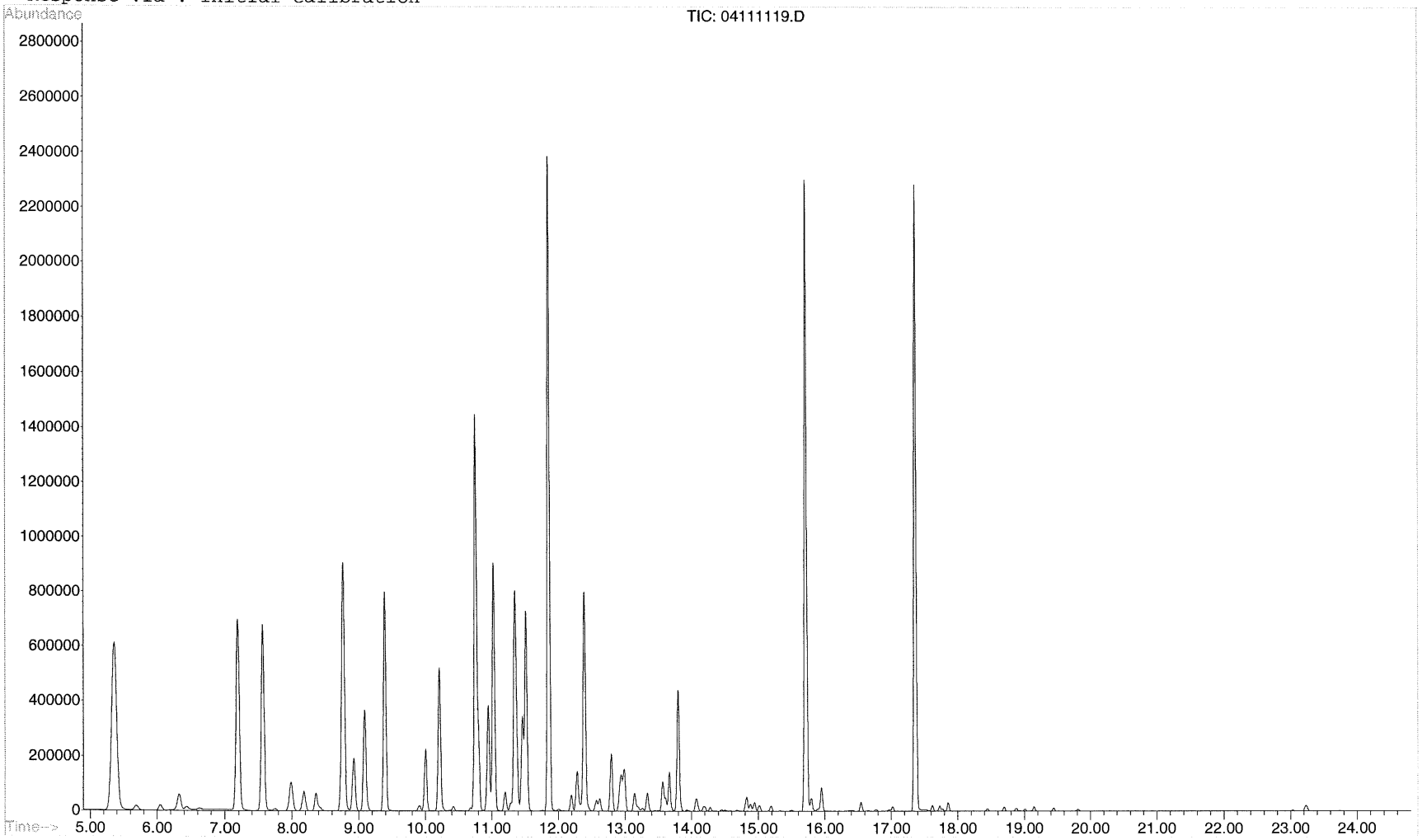
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1729834	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1030538	90.80	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.45%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	39315978m	344.70	ug/m3	
23) non C5-C8	6.43	TIC	42576	0.47	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	1046202	14.75	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4163798	70.17	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	812530	8.41	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	5468078	53.18	ug/m3	100
28) non C5-C8 {6}	13.79	TIC	1083571	10.70	ug/m3	100
29) non C5-C8 - TOTAL	13.79	TIC	12616755m	148.35	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11153428m	154.88	ug/m3	
31) non C9-C12	15.71	TIC	5269969	55.57	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	111469	1.25	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	212904	2.43	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	68834	0.85	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5048499	78.94	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10711675m	127.41	ug/m3	
37) C9-C10 Aromatic	17.85	120	37094m	3.77	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3419m	0.35	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	40513m	4.11	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111119.D Vial: 19
Acq On : 11 Apr 2011 11:02 pm Operator: Michael Truchan
Sample : 1103389-038B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:50 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111120.D Vial: 4
Acq On : 11 Apr 2011 11:45 pm Operator: Michael Truchan
Sample : MBLK(2) 4/1/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

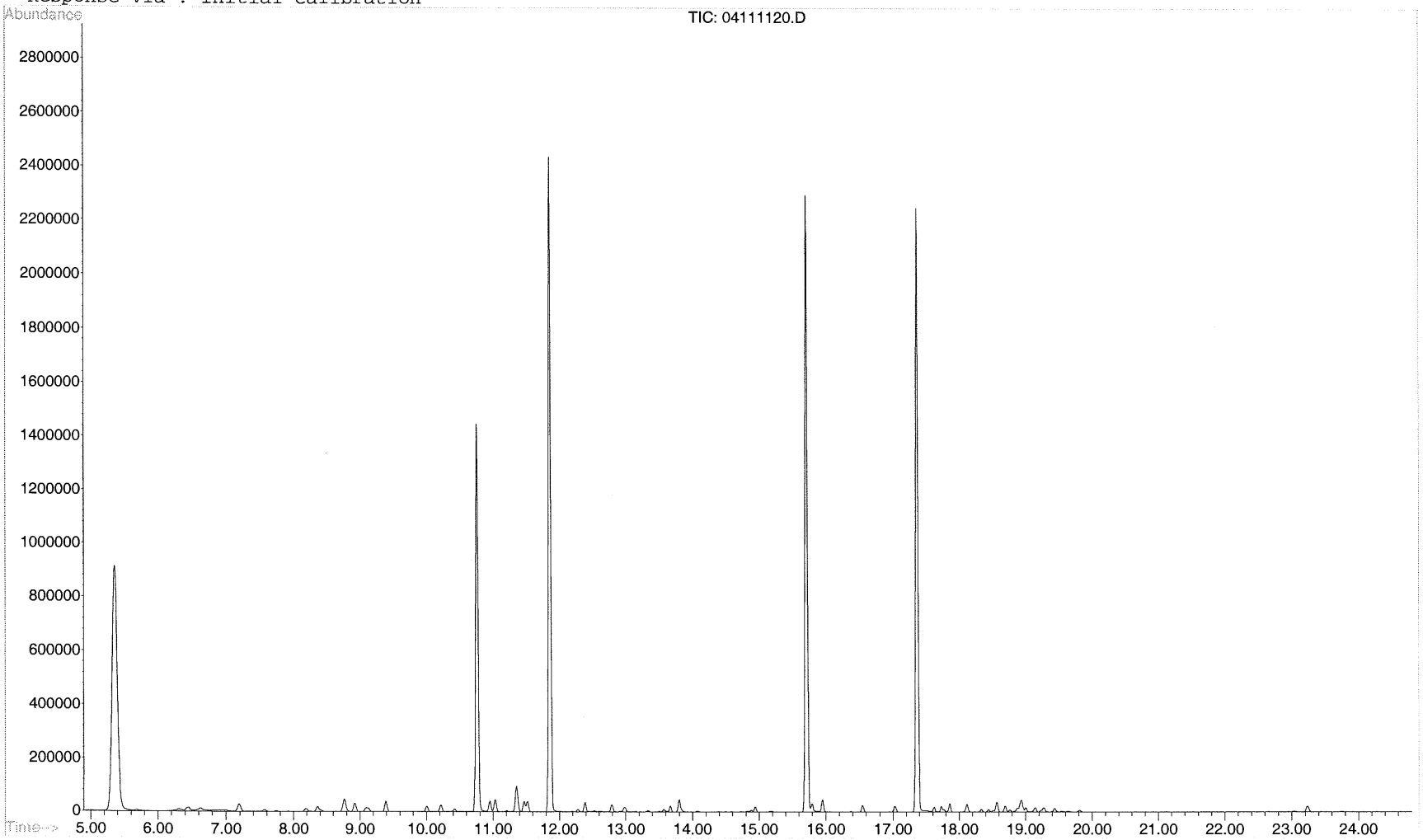
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1743270	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1005964	87.95	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.27%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	11186669m	98.08	ug/m3	
23) non C5-C8	6.44	TIC	39287	0.43	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	38607	0.54	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3570844	60.18	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	94188	0.98	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5525098	53.73	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	112872	1.11	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9380896m	110.31	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11314864m	157.12	ug/m3	
31) non C9-C12	15.71	TIC	5227868	55.12	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	65349	0.73	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	96249	1.10	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	52927	0.65	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4973019	77.76	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10415412m	123.88	ug/m3	
37) C9-C10 Aromatic	17.85	120	38227m	3.88	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3300m	0.34	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	41527m	4.22	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111120.D Vial: 4
Acq On : 11 Apr 2011 11:45 pm Operator: Michael Truchan
Sample : MBLK(2) 4/1/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111121.D Vial: 5
Acq On : 12 Apr 2011 12:26 am Operator: Michael Truchan
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

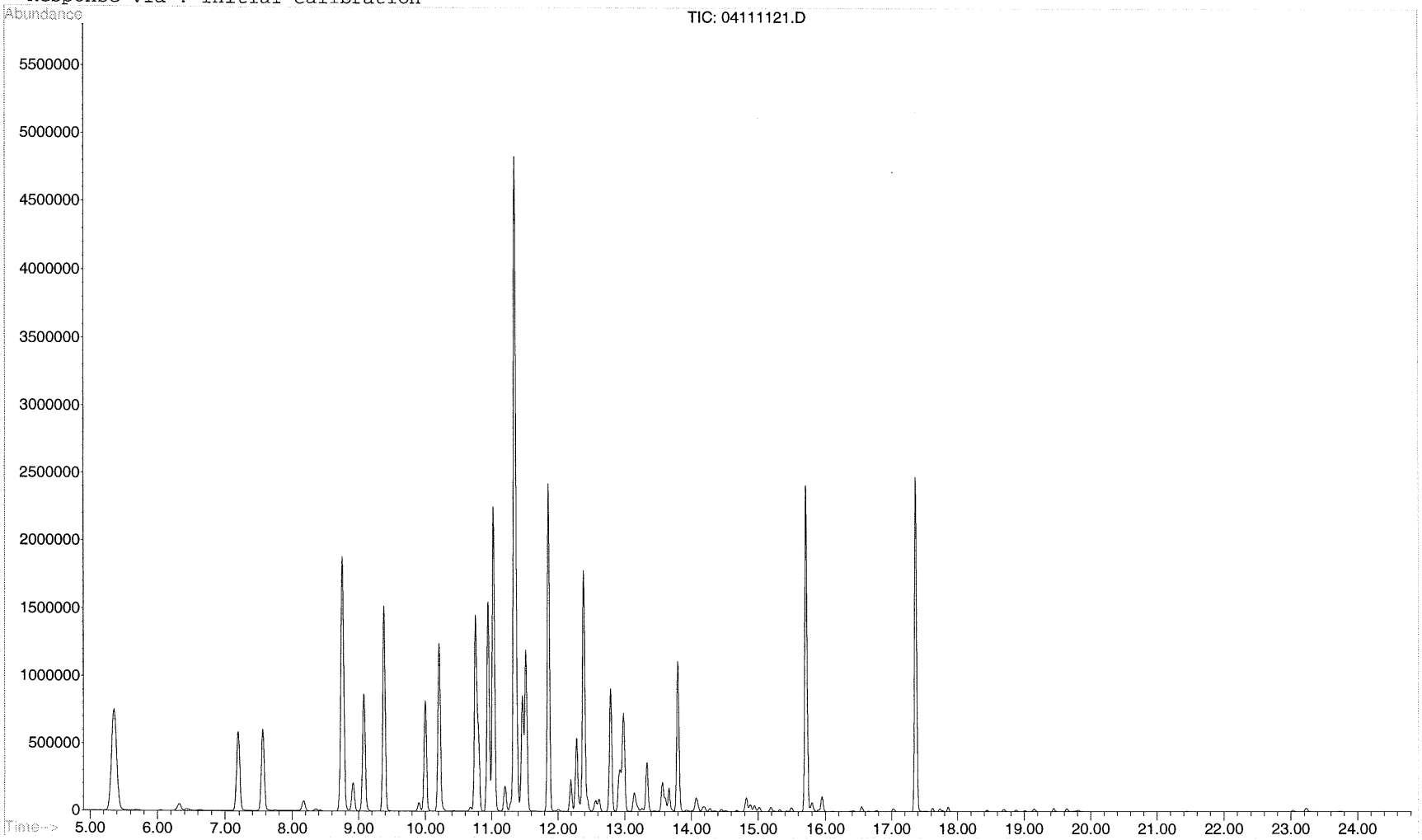
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1793066	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1128322	95.91	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 107.16%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	81731892m	716.59	ug/m3	
23) non C5-C8	6.44	TIC	51492	0.57	ug/m3	100
24) non C5-C8 {2}	9.07	TIC	2442061	34.44	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4896862	82.52	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2059350	21.33	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5505115	53.54	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2652469	26.18	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17607349m	207.04	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	12367158m	171.73	ug/m3	
31) non C9-C12	15.71	TIC	5496473	57.95	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	175461	1.96	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	265499	3.03	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	90444	1.12	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5503222	86.05	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11531099m	137.15	ug/m3	
37) C9-C10 Aromatic	17.86	120	43467m	4.41	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	3743m	0.38	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	47210m	4.79	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111121.D Vial: 5
Acq On : 12 Apr 2011 12:26 am Operator: Michael Truchan
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111122.D Vial: 6
Acq On : 12 Apr 2011 1:07 am Operator: Michael Truchan
Sample : 1103609-001ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:52 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

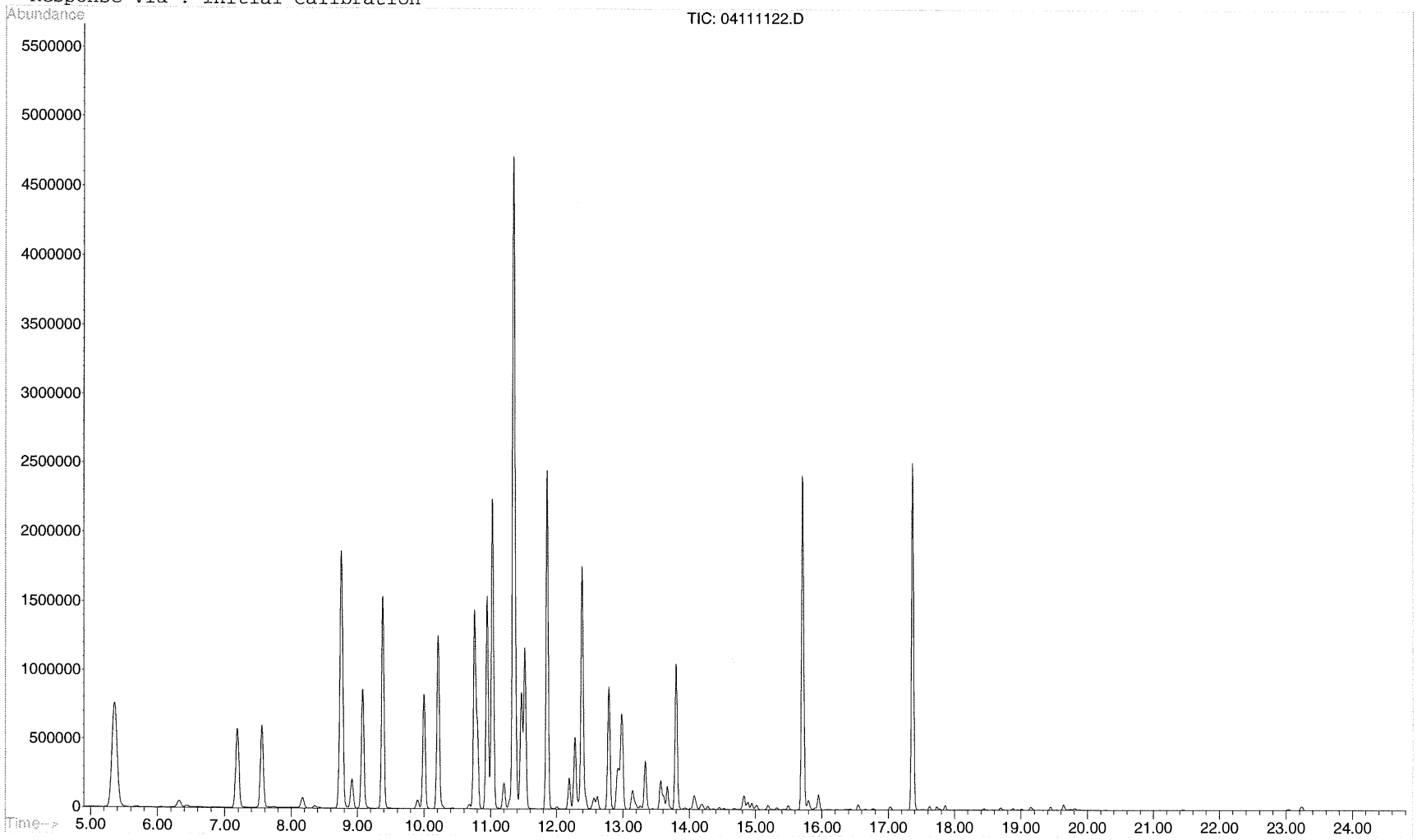
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1807064	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1126800	95.04	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.19%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	80870879m	709.04	ug/m3	
23) non C5-C8	6.43	TIC	42593	0.47	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2447652	34.52	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4868137	82.04	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2202553	22.81	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5559592	54.07	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2530483	24.98	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17651010m	207.55	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	12455387m	172.96	ug/m3	
31) non C9-C12	15.71	TIC	5519572	58.20	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	181722	2.03	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	255221	2.91	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	89796	1.11	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5522029	86.34	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11568340m	137.60	ug/m3	
37) C9-C10 Aromatic	17.86	120	43178m	4.38	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3556m	0.36	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	46734m	4.75	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111122.D Vial: 6
Acq On : 12 Apr 2011 1:07 am Operator: Michael Truchan
Sample : 1103609-001ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:52 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111129.D
Acq On : 12 Apr 2011 5:56 am
Sample : APH RLVS 20cc voa020211a
Misc : RLVS MA_APH
MS Integration Params: CLME.P
Quant Time: Apr 13 13:58 2011

Vial: 3
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 040911V1.RES

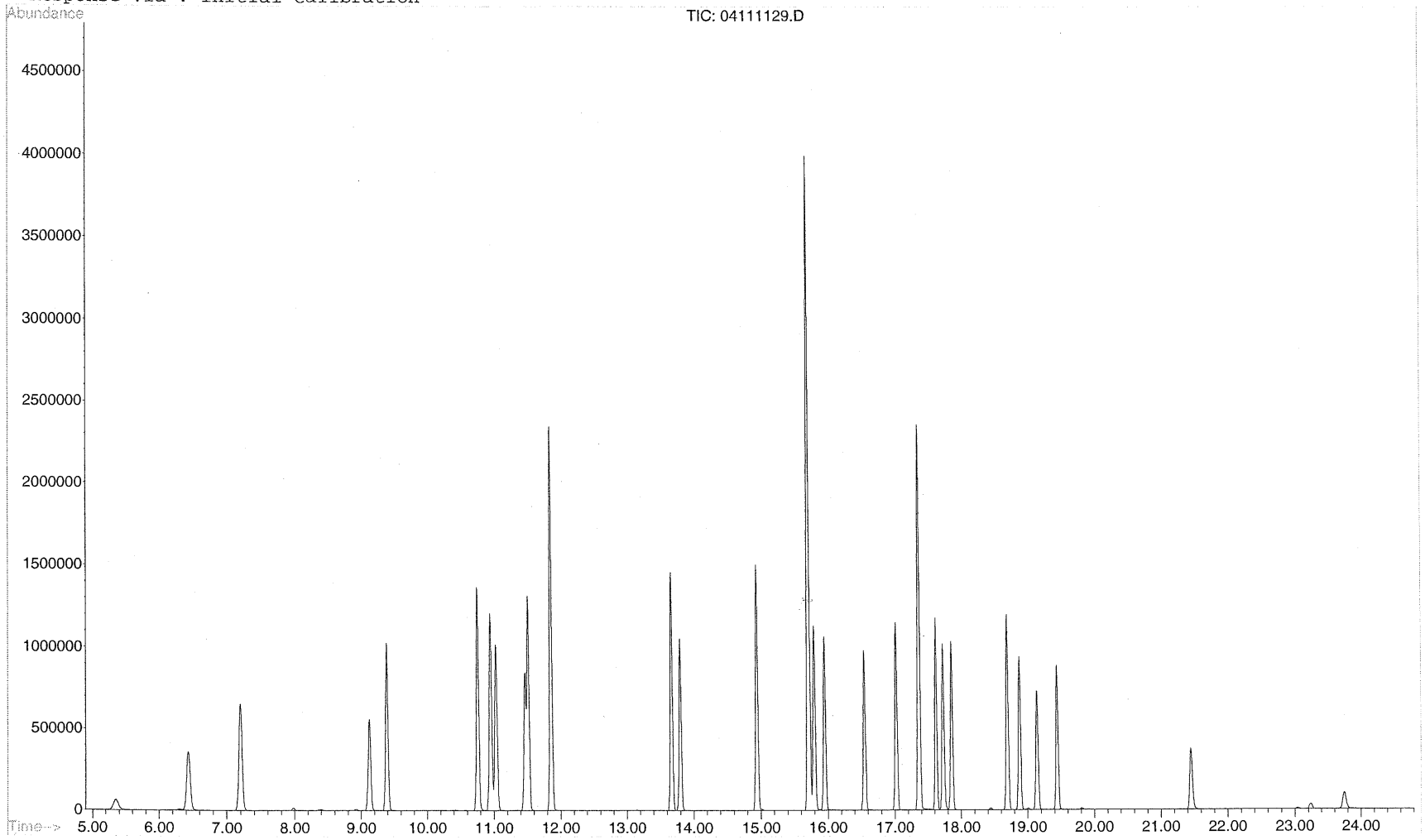
Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1821660	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1058218	88.54	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.93%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2179148	17.95	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2529764	23.23	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	3054960	25.59	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2636866	22.83	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	2990526	25.85	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3033022	28.49	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	16424286m	144.00	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3371712	31.88	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8547263	90.12	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2377626	33.03	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2643913	34.65	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1939512	35.16	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.44	TIC	1051940	35.57	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.44	TIC	19931966m	276.78	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	292317	30.92	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	296118	30.97	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	397244	31.77	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	80442	33.22	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	277062	31.30	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	216812	32.89	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1559995m	158.41	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111129.D 040911V1.M Wed Apr 13 19:13:20 2011

Data File : C:\HPCHEM\1\DATA\041111\04111129.D Vial: 3
Acq On : 12 Apr 2011 5:56 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Injection Log

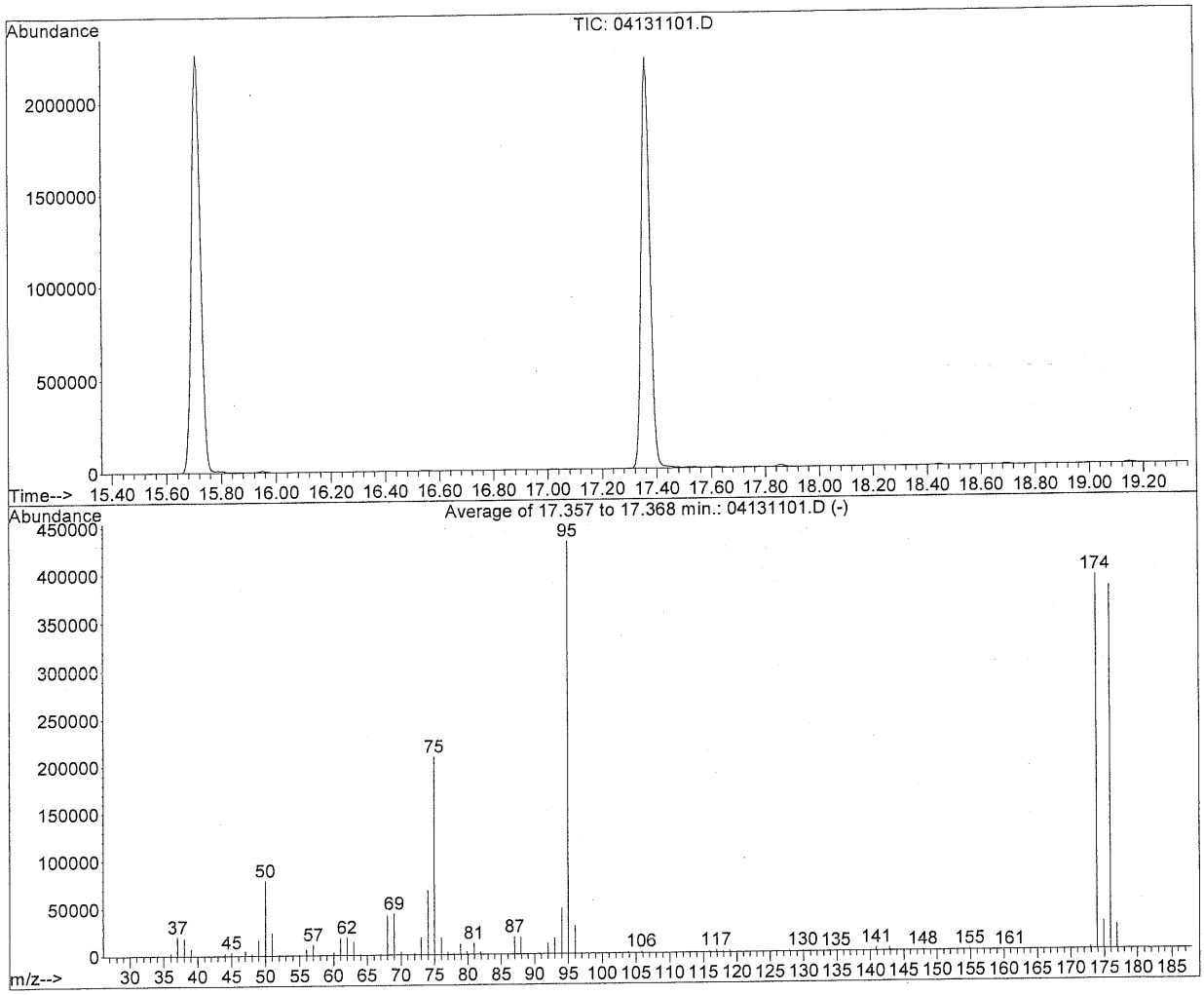
Directory: C:\HPCHEM\1\DATA\041311

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04131101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	13 Apr 2011 15:47
2	2	04131102.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	13 Apr 2011 16:29
3	3	04131103.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	13 Apr 2011 17:11
4	4	04131104.d	1.	MBLK 4/13/11	MBLK MA_APH	13 Apr 2011 17:55
5	5	04131105.d	400.	1103609-004A	SAMP MA_APH	13 Apr 2011 18:37
6	6	04131106.d	400.	1103609-004ADUP	DUP MA_APH	13 Apr 2011 19:18
7	7	04131107.d	40.	1103389-0036B	SAMP MA_APH	13 Apr 2011 19:59
8	8	04131108.d	40.	1103389-0037 — DATA NOT used mTch 4/15/11	SAMP MA_APH	13 Apr 2011 20:41
9	9	04131109.d	40.	1103609-017A	SAMP MA_APH	13 Apr 2011 21:23
10	3	04131110.d	1.	BLANK	CCB MA_APH	14 Apr 2011 10:21
11	7	04131111.d	1000.	1103389-036B	SAMP MA_APH	14 Apr 2011 11:11
12	8	04131112.d	1000.	1103389-037B — DATA NOT used mTch 4/15/11	SAMP MA_APH	14 Apr 2011 11:53
13	9	04131113.d	1000.	1103609-017A	SAMP MA_APH	14 Apr 2011 12:35
14	8	04131114.d	4000.	1103389-037B	SAMP MA_APH	14 Apr 2011 14:00
15	3	04131115.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	14 Apr 2011 15:46

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\041311\04131101.D
Acq On : 13 Apr 2011 3:47 pm
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00



AutoFind: Scans 2384, 2385, 2386; Background Corrected with Scan 2372

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	78627	PASS
75	95	30	60	48.3	208704	PASS
95	95	100	100	100.0	432384	PASS
96	95	5	9	6.8	29507	PASS
173	174	0.00	2	0.7	2672	PASS
174	95	50	120	90.6	391573	PASS
175	174	4	9	7.5	29256	PASS
176	174	93	101	97.2	380480	PASS
177	176	5	9	6.7	25677	PASS

04131101.D 040911V1.M Fri Apr 15 12:55:32 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131102.D Vial: 2
Acq On : 13 Apr 2011 4:29 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:55 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

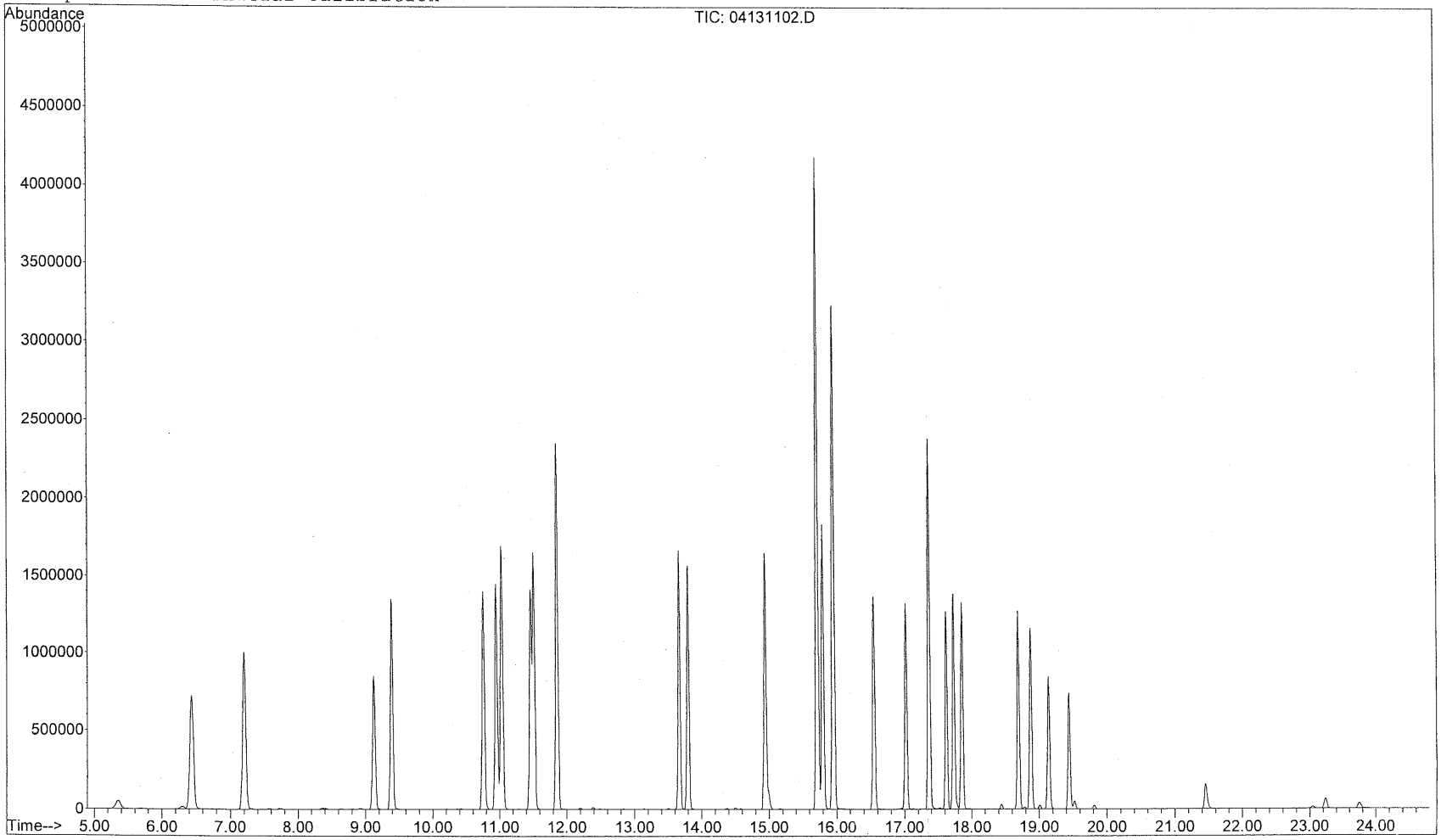
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1851998	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1058280	87.09	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery =	97.31%		
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	3341262	27.53	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	3341023	30.68	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	3666103	30.71	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	4359576	37.75	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	3492287	30.19	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3483509	32.72	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	21683760m	190.11	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3973788	37.57	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8923165	94.08	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2547096	35.39	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2811381	36.84	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1619783	29.36	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.46	TIC	473526	16.01	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.46	TIC	20348739m	282.56	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	338789	35.84	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	406258	42.49	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	504588	40.36	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	98982	40.88	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	317847	35.91	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	275381	41.78	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1941845m	197.18	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131102.D 040911V1.M Fri Apr 15 12:56:04 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131102.D Vial: 2
Acq On : 13 Apr 2011 4:29 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:55 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131103.D Vial: 3
Acq On : 13 Apr 2011 5:11 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

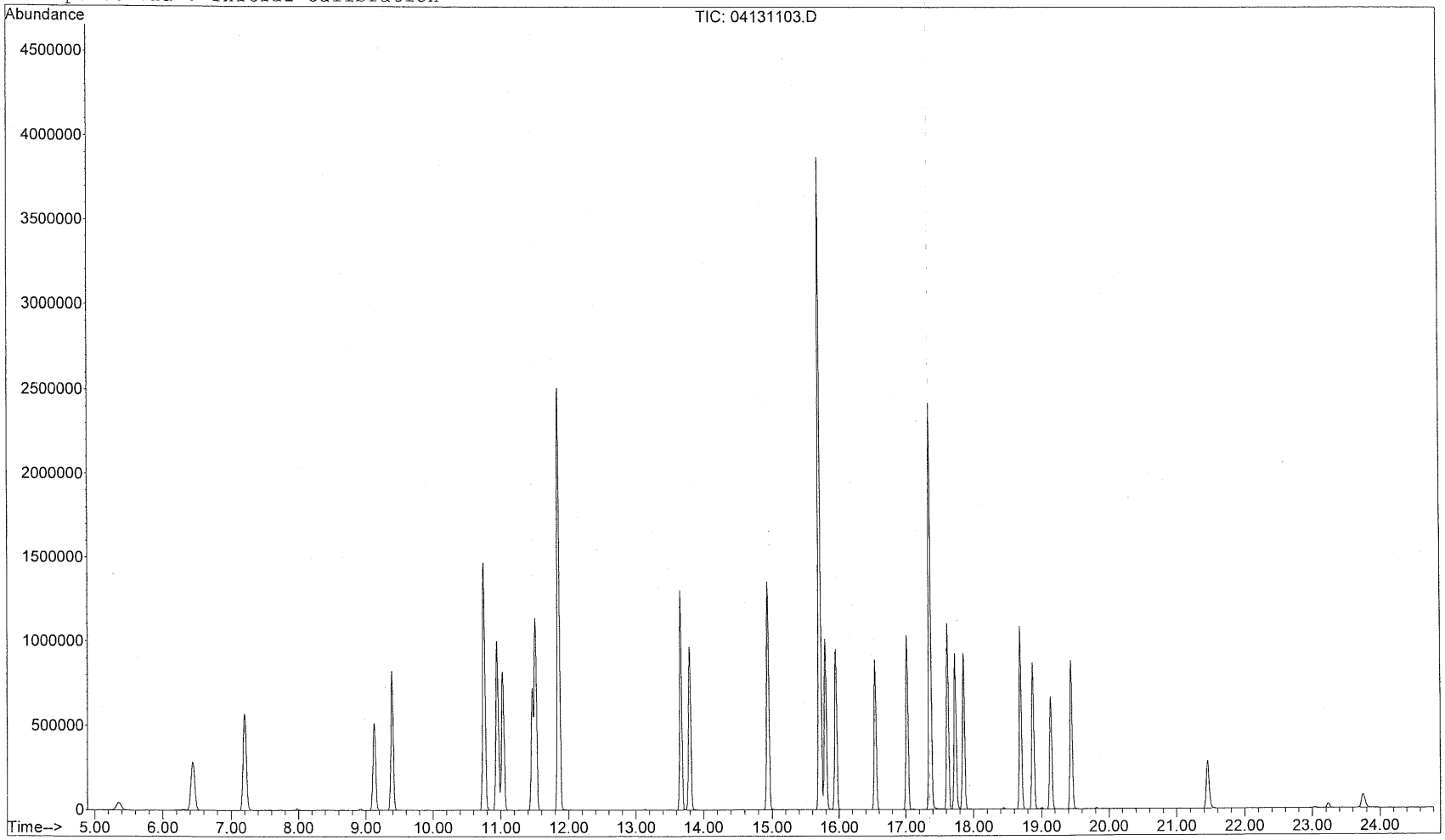
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1902586	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1085112	86.93	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 97.13%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	1908421	15.72	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2052283	18.85	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	2592926	21.72	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2124348	18.39	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	2464133	21.30	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	2720194	25.55	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	13862305m	121.54	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3026100	28.61	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8394333	88.51	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2194151	30.48	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2399548	31.44	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1949417	35.34	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	823068	27.83	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	18786617m	260.87	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	267733	28.32	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	269146	28.15	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	362587	29.00	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	74250	30.67	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	254631	28.77	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	206001	31.25	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1434348m	145.65	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131103.D 040911V1.M Fri Apr 15 12:56:23 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131103.D Vial: 3
Acq On : 13 Apr 2011 5:11 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131104.D
Acq On : 13 Apr 2011 5:55 pm
Sample : MBLK 4/13/11
Misc : MBLK MA_APH
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011

Vial: 4
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

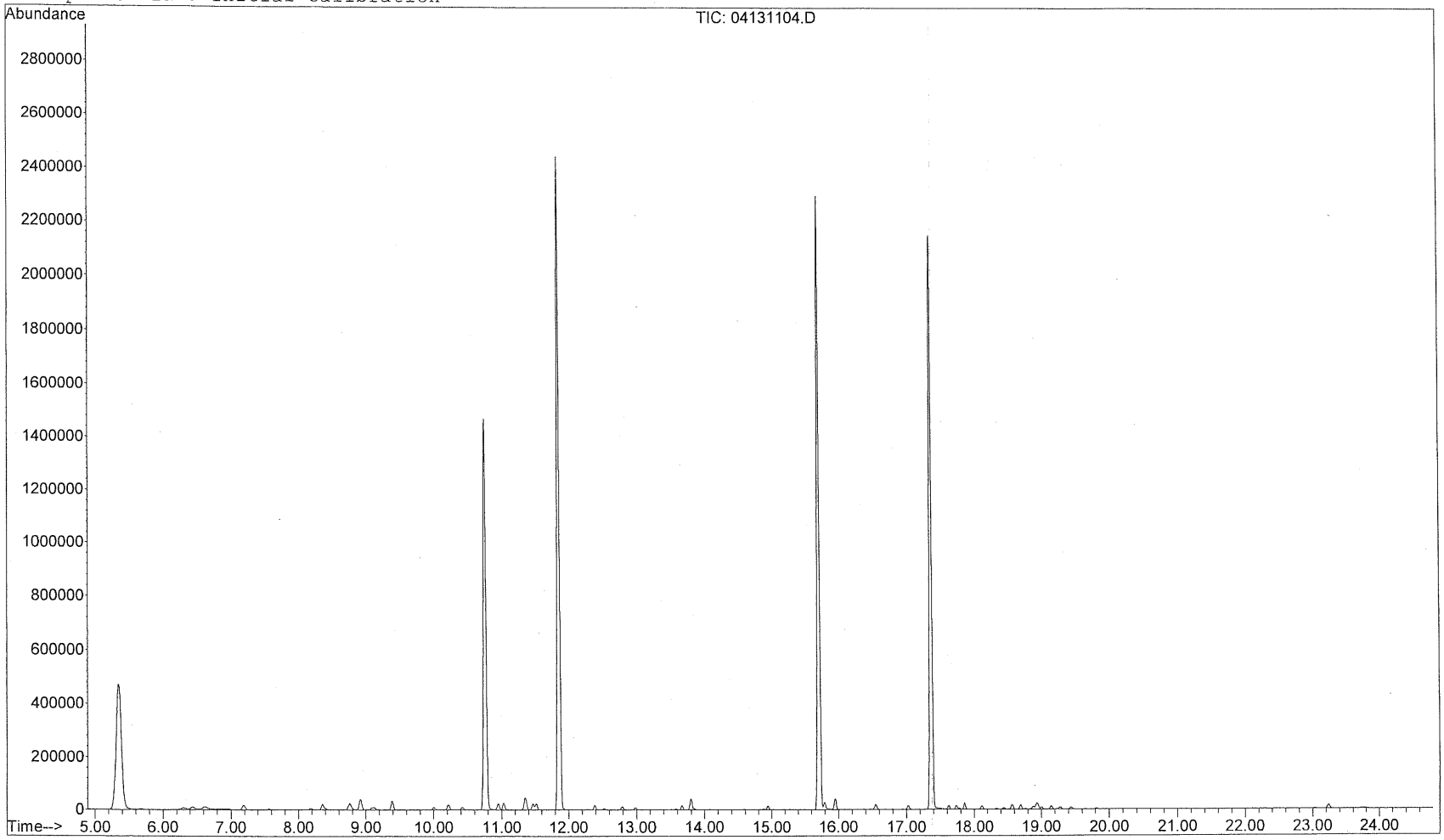
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1762798	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	980741	84.80	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 94.75%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	10500077m	92.06	ug/m3	
23) non C5-C8	6.44	TIC	28936	0.32	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	16653	0.23	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3646581	61.45	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	55769	0.58	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	5557108	54.04	ug/m3	100
28) non C5-C8 {6}	13.79	TIC	101099	1.00	ug/m3	100
29) non C5-C8 - TOTAL	13.79	TIC	9406146m	110.60	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10784266m	149.75	ug/m3	
31) non C9-C12	15.71	TIC	5224508	55.09	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	61647	0.69	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	87122	0.99	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	42914	0.53	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	4836221	75.62	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	10252412m	121.94	ug/m3	
37) C9-C10 Aromatic	17.85	120	30010m	3.05	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	2475m	0.25	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	32485m	3.30	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131104.D 040911V1.M Fri Apr 15 12:56:59 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131104.D Vial: 4
Acq On : 13 Apr 2011 5:55 pm Operator: Michael Truchan
Sample : MBLK 4/13/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131105.D Vial: 5
Acq On : 13 Apr 2011 6:37 pm Operator: Michael Truchan
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:57 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

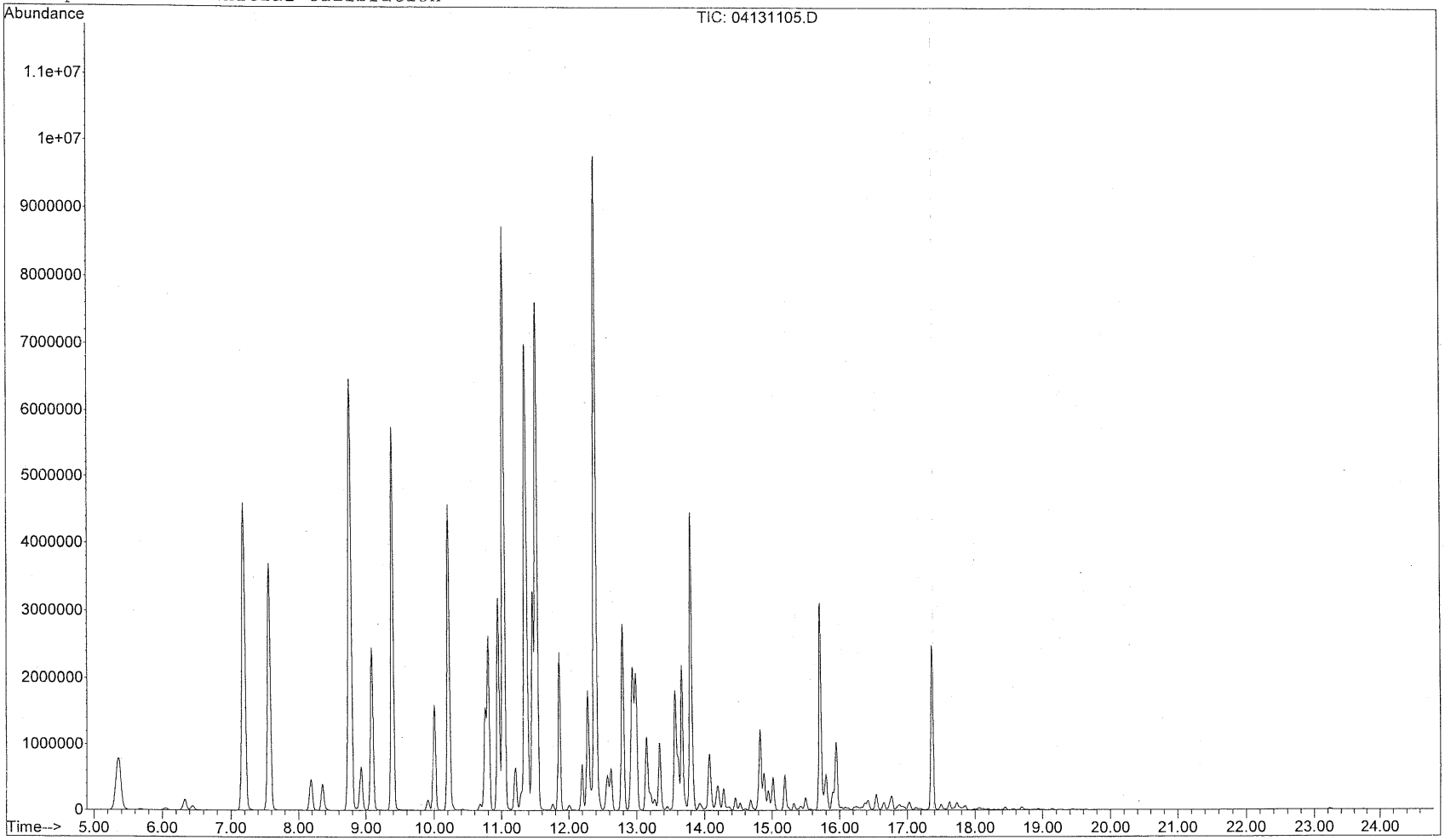
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1878673	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1109814	90.04	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery =	100.60%		
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	289021711m	2534.01	ug/m3	
23) non C5-C8	6.44	TIC	218487	2.41	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	6677021	94.16	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3256193	54.87	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	7560291	78.30	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	5399410	52.51	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	11082780	109.40	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	34194182m	402.07	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	24545030m	340.83	ug/m3	
31) non C9-C12	15.71	TIC	7277874	76.74	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	1384557	15.49	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	2450559	27.98	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	581559	7.17	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5617088	87.83	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	17311637m	205.91	ug/m3	
37) C9-C10 Aromatic	17.73	120	98564m	10.01	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	4477m	0.45	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	103041m	10.46	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131105.D 040911V1.M Fri Apr 15 12:57:35 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131105.D Vial: 5
Acq On : 13 Apr 2011 6:37 pm Operator: Michael Truchan
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:57 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131106.D Vial: 6
Acq On : 13 Apr 2011 7:18 pm Operator: Michael Truchan
Sample : 1103609-004ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:58 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

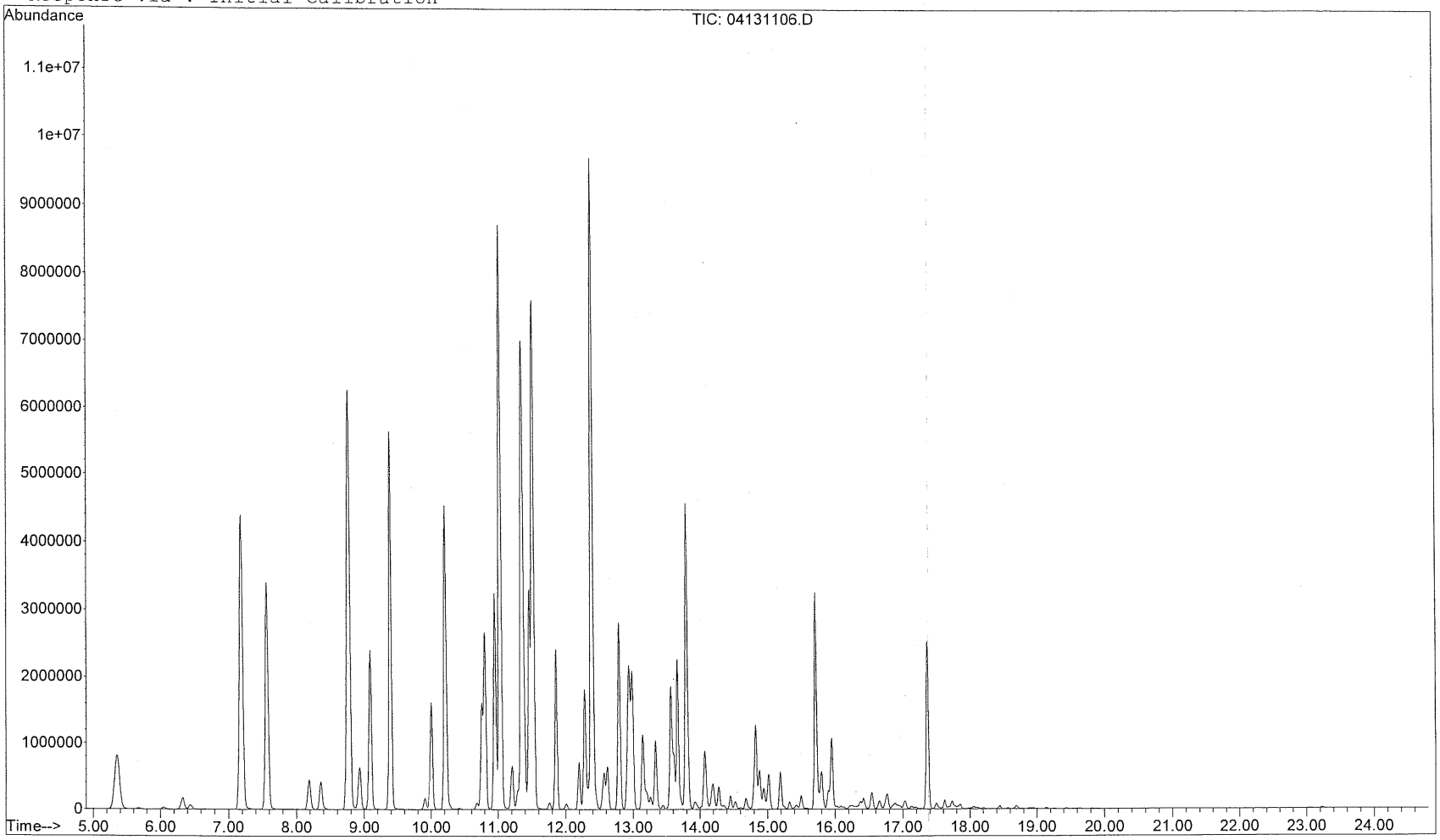
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1920644	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1138387	90.34	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.94%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	287202561m	2518.06	ug/m3	
23) non C5-C8	6.44	TIC	211392	2.33	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	6504373	91.73	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3244260	54.67	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	7486112	77.53	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	5479786	53.29	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	11299780	111.54	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	34225703m	402.44	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	25166583m	349.46	ug/m3	
31) non C9-C12	15.71	TIC	7491803	78.99	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	1426729	15.96	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	2541944	29.02	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	601396	7.42	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5748702	89.88	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	17810574m	211.84	ug/m3	
37) C9-C10 Aromatic	17.73	120	100958m	10.25	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	4914m	0.50	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	105872m	10.75	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131106.D 040911V1.M Fri Apr 15 12:58:10 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131106.D Vial: 6
Acq On : 13 Apr 2011 7:18 pm Operator: Michael Truchan
Sample : 1103609-004ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131111.D Vial: 7
Acq On : 14 Apr 2011 11:11 am Operator: Michael Truchan
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1000.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:58 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

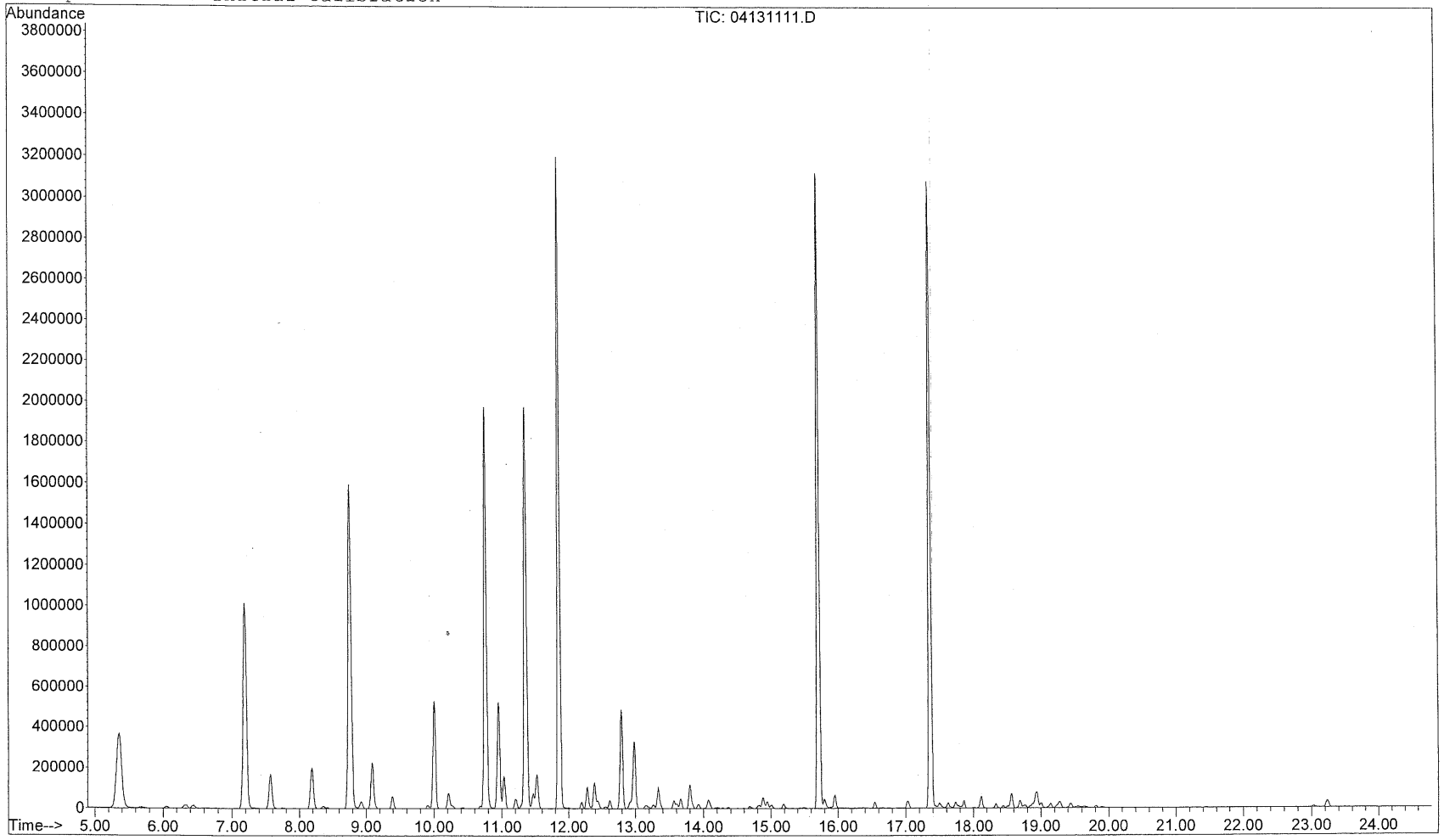
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2557124	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1510213	90.01	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery =	100.57%		
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	37771222m	331.16	ug/m3	
23) non C5-C8	6.45	TIC	49577	0.55	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	644747	9.09	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5049407	85.09	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	187149	1.94	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	7637432	74.28	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	305552	3.02	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	13873864m	163.14	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	16865418m	234.19	ug/m3	
31) non C9-C12	15.71	TIC	7452016	78.57	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	111868	1.25	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	149636	1.71	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	64715	0.80	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	7163598	112.01	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	14941833m	177.72	ug/m3	
37) C9-C10 Aromatic	17.85	120	44232m	4.49	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	3922m	0.40	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	48154m	4.89	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131111.D 040911V1.M Fri Apr 15 12:58:50 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131111.D Vial: 7
Acq On : 14 Apr 2011 11:11 am Operator: Michael Truchan
Sample : 1103389-036B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1000.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131114.D Vial: 8
Acq On : 14 Apr 2011 2:00 pm Operator: Michael Truchan
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:59 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

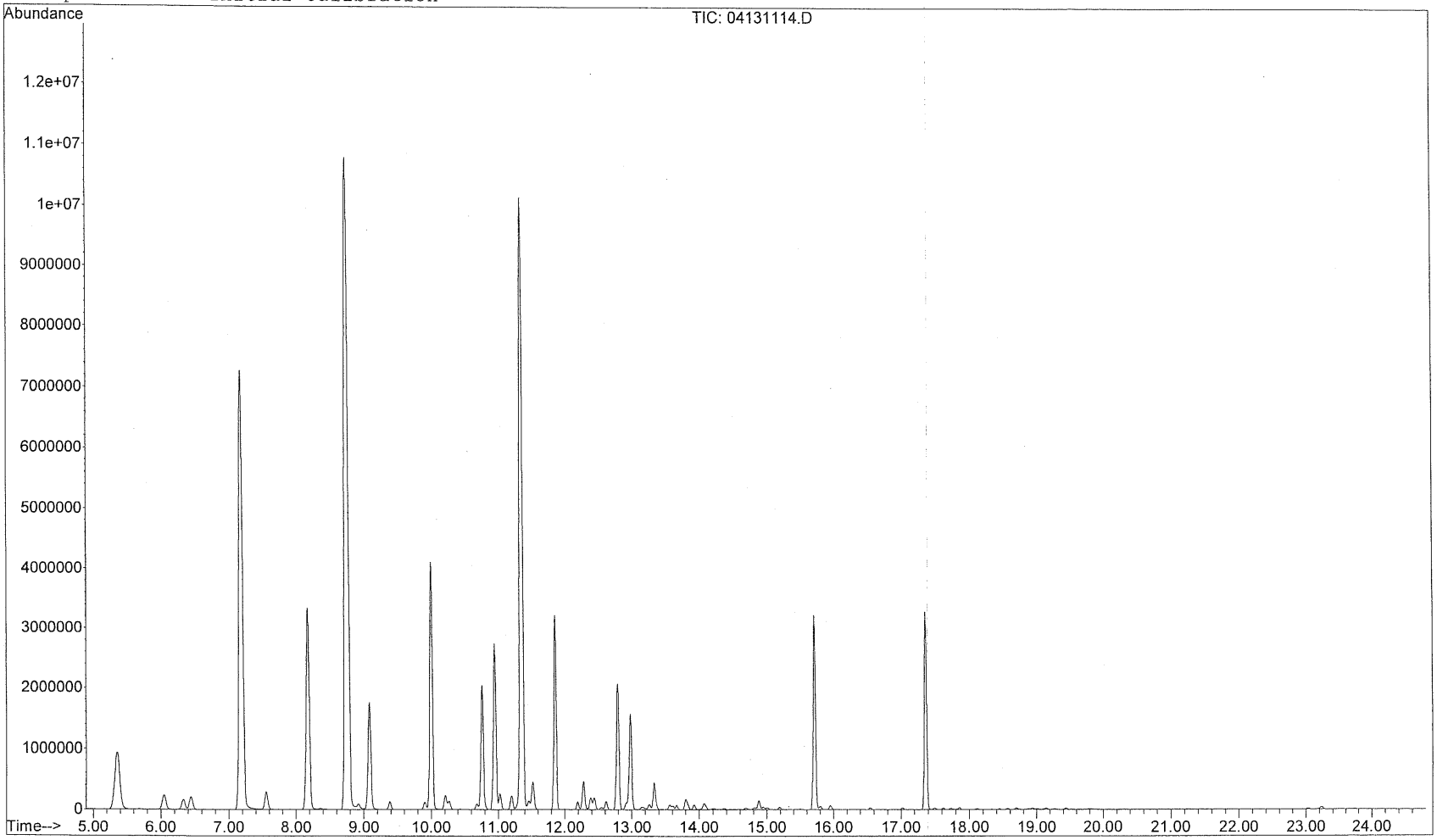
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2528962	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1542357	92.95	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.85%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	171271465m	1501.63	ug/m3	
23) non C5-C8	6.44	TIC	723270	7.97	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	4929866	69.52	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	5268627	88.79	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	345846	3.58	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	7453914	72.49	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	542372	5.35	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19263895m	226.52	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	16691606m	231.78	ug/m3	
31) non C9-C12	15.71	TIC	7521025	79.30	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	138579	1.55	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	156175	1.78	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	73888	0.91	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	7399088	115.69	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	15288755m	181.85	ug/m3	
37) C9-C10 Aromatic	17.85	120	48564m	4.93	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	4432m	0.45	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	52996m	5.38	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131114.D Vial: 8
Acq On : 14 Apr 2011 2:00 pm Operator: Michael Truchan
Sample : 1103389-037B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:59 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131115.D
Acq On : 14 Apr 2011 3:46 pm
Sample : APH RLVS 20cc voa020211a
Misc : RLVS MA_APH
MS Integration Params: CLME.P
Quant Time: Apr 15 13:00 2011

Vial: 3
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

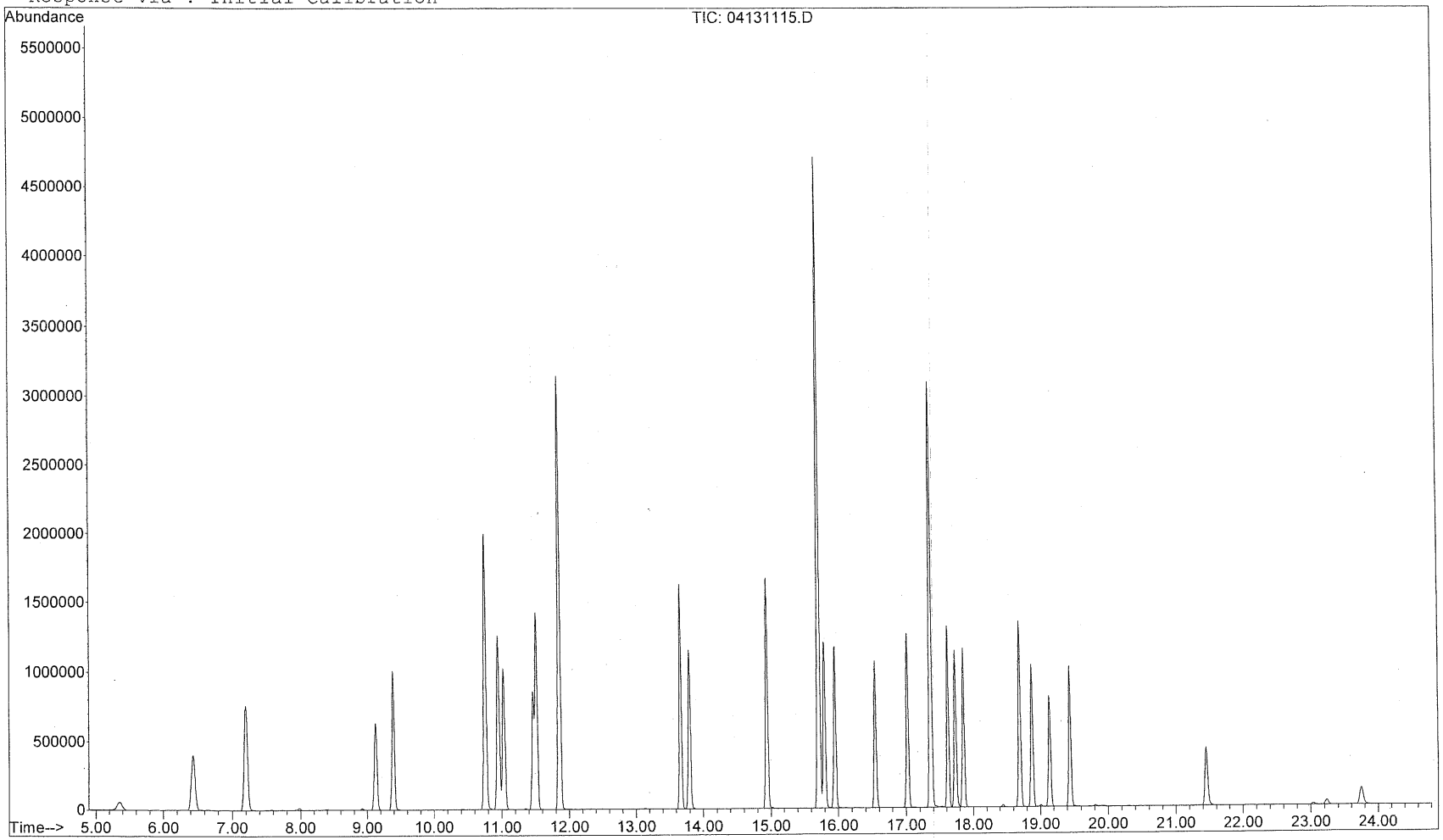
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2427829	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1460199	91.67	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.42%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2558386	21.08	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2529753	23.23	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	3225309	27.01	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2674917	23.16	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	3280672	28.36	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3450440	32.41	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	17719477m	155.36	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3747282	35.43	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	10388945	109.54	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2620917	36.41	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2978180	39.03	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	2228259	40.39	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	1225830	41.45	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	23189413m	322.01	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	327640	34.66	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	331380	34.66	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	453725	36.29	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	89872	37.12	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	310171	35.04	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	251579	38.17	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1764367m	179.16	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131115.D 040911V1.M Fri Apr 15 13:00:19 2011

Quantitation Report

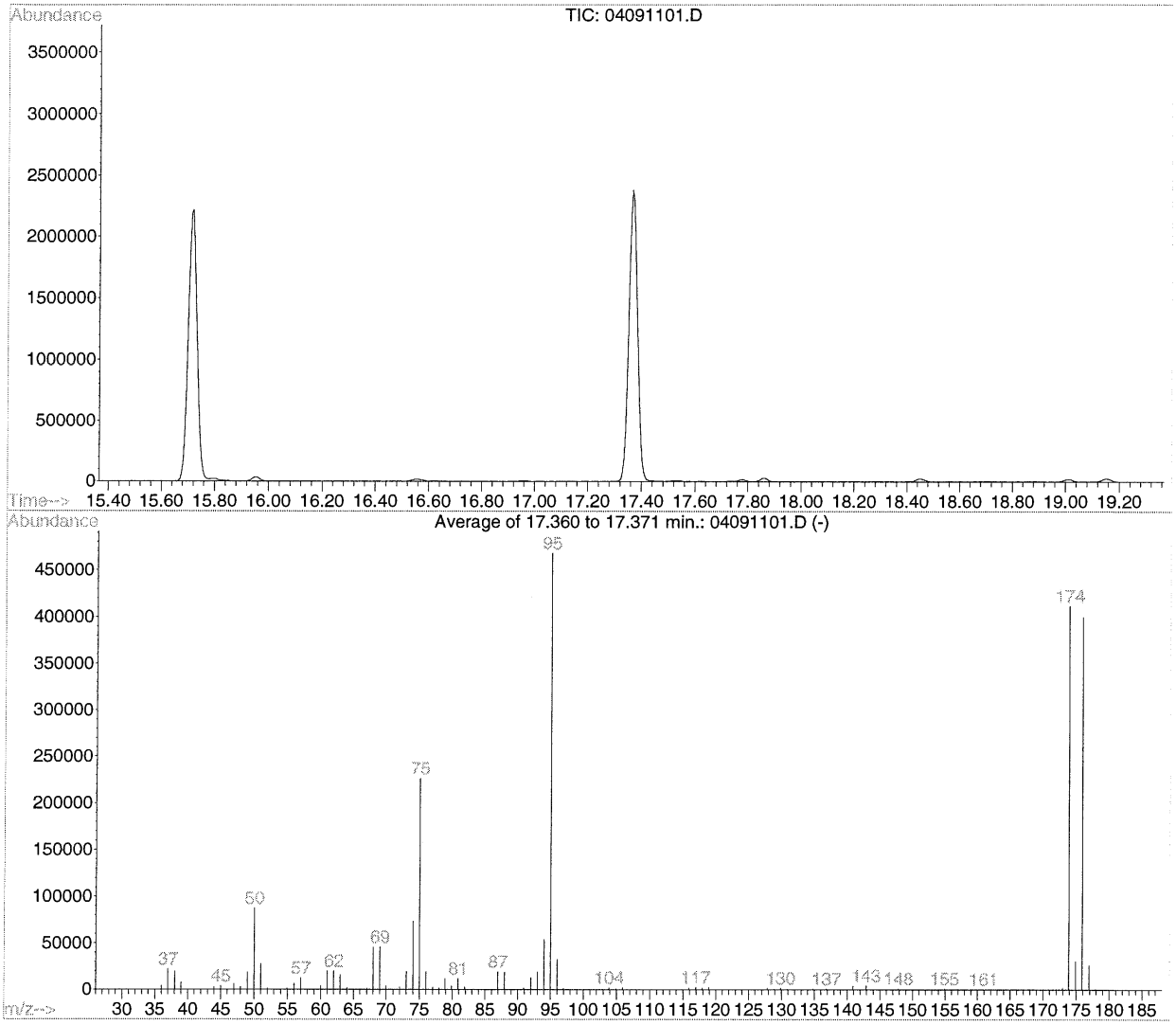
Data File : C:\HPCHEM\1\DATA\041311\04131115.D Vial: 3
Acq On : 14 Apr 2011 3:46 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 13:00 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040911\04091101.D Vial: 1
Acq On : 9 Apr 2011 1:17 pm Operator: Michael Truchan
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : ical EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3



Spectrum Information: Average of 17.360 to 17.371 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.7	87240	PASS
75	95	30	60	48.4	226219	PASS
95	95	100	100	100.0	467755	PASS
96	95	5	9	6.9	32075	PASS
173	174	0.00	2	0.4	1827	PASS
174	95	50	120	88.0	411733	PASS
175	174	4	9	7.4	30336	PASS
176	174	93	101	97.1	399808	PASS
177	176	5	9	6.6	26269	PASS

04091101.D 040911V1.M Wed Apr 13 19:03:07 2011

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration

Calibration Files
1 =04091102.D 2 =04091103.D 3 =04091104.D
4 =04091105.D 5 =04091106.D 6 =04091107.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	L1	C5-C8 Aliphatic HC	1.320	1.229	1.191	1.274	1.232	1.118	1.214	E5	6.01
2)	L1	C5-C8 Aliphatic HC	1.100	1.121	1.108	1.187	1.153	0.993	1.089	E5	7.61
3)	L1	C5-C8 Aliphatic HC	1.139	1.241	1.236	1.305	1.254	1.109	1.194	E5	7.21
4)	L1	C5-C8 Aliphatic HC	1.152	1.181	1.165	1.258	1.220	1.070	1.155	E5	6.77
5)	L1	C5-C8 Aliphatic HC	1.115	1.146	1.214	1.260	1.254	1.091	1.157	E5	7.78
6)	L1	C5-C8 Aliphatic HC	0.911	1.098	1.103	1.190	1.163	1.024	1.065	E5	9.68
7)	L1	C5-C8 Aliphatic HC	1.105	1.165	1.167	1.245	1.212	1.065	1.141	E5	6.96
8)	L1	C9-C12 Aliphatic HC	0.888	1.091	1.089	1.194	1.171	1.019	1.058	E5	10.59
9)	L1	C9-C12 Aliphatic HC	0.863	0.961	0.966	1.035	1.029	0.939	0.948	E5	7.73
10)	L1	C9-C12 Aliphatic HC	5.485	7.094	7.288	7.986	8.180	7.336	7.197	E4	12.15
11)	L1	C9-C12 Aliphatic HC	6.086	7.617	7.646	8.438	8.497	7.686	7.631	E4	10.46
12)	L1	C9-C12 Aliphatic HC	4.250	5.488	5.511	6.132	6.293	5.465	5.517	E4	11.91
13)	L1	C9-C12 Aliphatic HC	2.632	2.876	3.071	3.414	3.221	2.591	2.957	E4	10.15
14)	L1	C9-C12 Aliphatic HC	6.424	7.307	7.341	7.956	7.871	6.918	7.201	E4	8.22
15)	L1	C9-C10 Aromatic HC	0.794	0.956	0.950	1.040	1.037	0.932	0.945	E4	8.84
16)	L1	C9-C10 Aromatic HC	0.814	0.972	0.964	1.036	1.047	0.949	0.956	E4	8.25
17)	L1	C9-C10 Aromatic HC	1.068	1.275	1.260	1.357	1.382	1.238	1.250	E4	8.56
18)	L1	C9-C10 Aromatic HC	1.861	2.365	2.418	2.631	2.717	2.464	2.421	E3	11.38
19)	L1	C9-C10 Aromatic HC	7.286	8.908	8.900	9.536	9.634	8.762	8.852	E3	8.69
20)	L1	C9-C10 Aromatic HC	5.139	6.590	6.632	7.176	7.337	6.632	6.591	E3	10.75
21)	L1	C9-C10 Aromatic HC	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
22)		C5-C8 Aliphatic	1.105	1.165	1.167	1.245	1.212	1.065	1.141	E5	6.96
23)	L1	non C5-C8	1.040	0.976	0.908	0.959	0.907	0.797	0.908	E5	10.70
24)	L1	non C5-C8 {2}	6.351	7.438	7.541	8.113	7.693	6.343	7.091	E4	11.08
25)	L1	non C5-C8 {3}	5.700	5.577	5.741	5.925	6.028	6.142	5.934	E4	4.92
26)	L1	non C5-C8 {4}	0.872	0.983	1.003	1.125	1.051	0.873	0.966	E5	10.73
27)	L1	non C5-C8 {5}	0.967	0.961	0.992	1.031	1.046	1.080	1.028	E5	5.79
28)	L1	non C5-C8 {6}	0.881	1.053	1.061	1.137	1.111	0.941	1.013	E5	10.08
29)	L1	non C5-C8 - TOTAL	7.851	8.432	8.616	9.302	9.149	8.177	8.504	E4	6.54
30)		C9-C12 Aliphatic	6.424	7.307	7.341	7.956	7.871	6.918	7.201	E4	8.22
31)	L1	non C9-C12	0.863	0.961	0.966	1.035	1.029	0.939	0.948	E5	7.73
32)	L1	non C9-C12 {2}	7.726	9.237	9.202	9.988	9.836	8.499	8.939	E4	9.65
33)	L1	non C9-C12 {3}	7.482	9.003	8.990	9.694	9.633	8.476	8.759	E4	9.31
34)	L1	non C9-C12 {4}	6.885	8.351	8.302	8.888	8.858	7.833	8.110	E4	8.79
35)	L1	non C9-C12 {5}	5.738	5.967	5.978	6.326	6.568	6.910	6.396	E4	8.74
36)	L1	non C9-C12 - TOTAL	7.222	8.363	8.430	9.128	9.221	8.453	8.407	E4	8.02
37)	L1	C9-C10 Aromatic	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
38)	L1	C9-C10 Aromatic {2}	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
39)	L1	C9-C10 Aromatic - T	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
40)	I	Chlorobenzene-d5	----------ISTD----------								
41)	S	4-Bromofluorobenzen	0.082	0.080	0.079	0.079	0.080	0.082	0.082		5.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091102.D Vial: 2
Acq On : 9 Apr 2011 1:59 pm Operator: Michael Truchan
Sample : MASS APH L1 20cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 10 8:23 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sun Apr 10 07:23:48 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

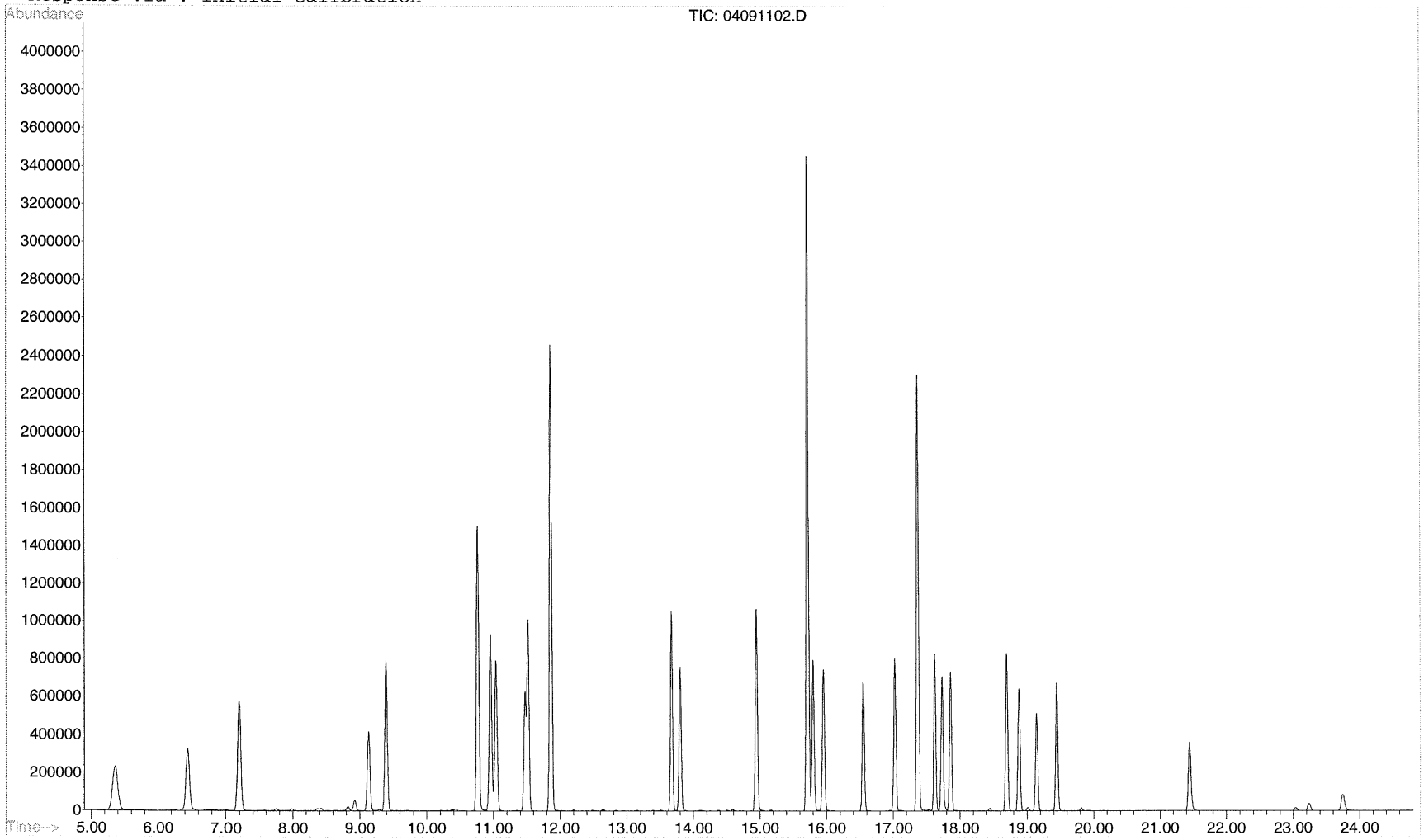
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1795857	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1055797	89.60	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	1926860	15.88	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2001469	18.38	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	2380803	19.94	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2039462	17.66	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	2351762	20.33	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	2232339	20.97	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	12932695m	113.39	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	2424359	22.92	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.72	TIC	7542577	79.53	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	1678344	23.32	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	1850275	24.25	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1491644	27.04	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	1008212	34.09	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	15995411m	222.11	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	204828	21.67	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	208281	21.78	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	278824	22.30	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	54715	22.60	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	191632	21.65	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	151098	22.92	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1089378m	110.62	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	1926860	127.29	ug/m3	100
23) non C5-C8	6.44	TIC	1186169	13.06	ug/m3	100
24) non C5-C8 {2}	9.13	TIC	1168568	16.48	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3767805	63.50	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	1421480	14.72	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5644999	54.90	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1727569	17.05	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14916590m	175.40	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	7523030	338.68	ug/m3	100
31) non C9-C12	15.72	TIC	7542577	79.53	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	1761624	19.71	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	1720748	19.65	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	1556069	19.19	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5135217	80.29	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	17716235m	170.48	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091102.D 040911V1.M Wed Apr 13 19:03:56 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091102.D Vial: 2
Acq On : 9 Apr 2011 1:59 pm Operator: Michael Truchan
Sample : MASS APH L1 20cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 10 8:23 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091103.D Vial: 3
Acq On : 9 Apr 2011 2:40 pm Operator: Michael Truchan
Sample : MASS APH L2 40cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:05 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

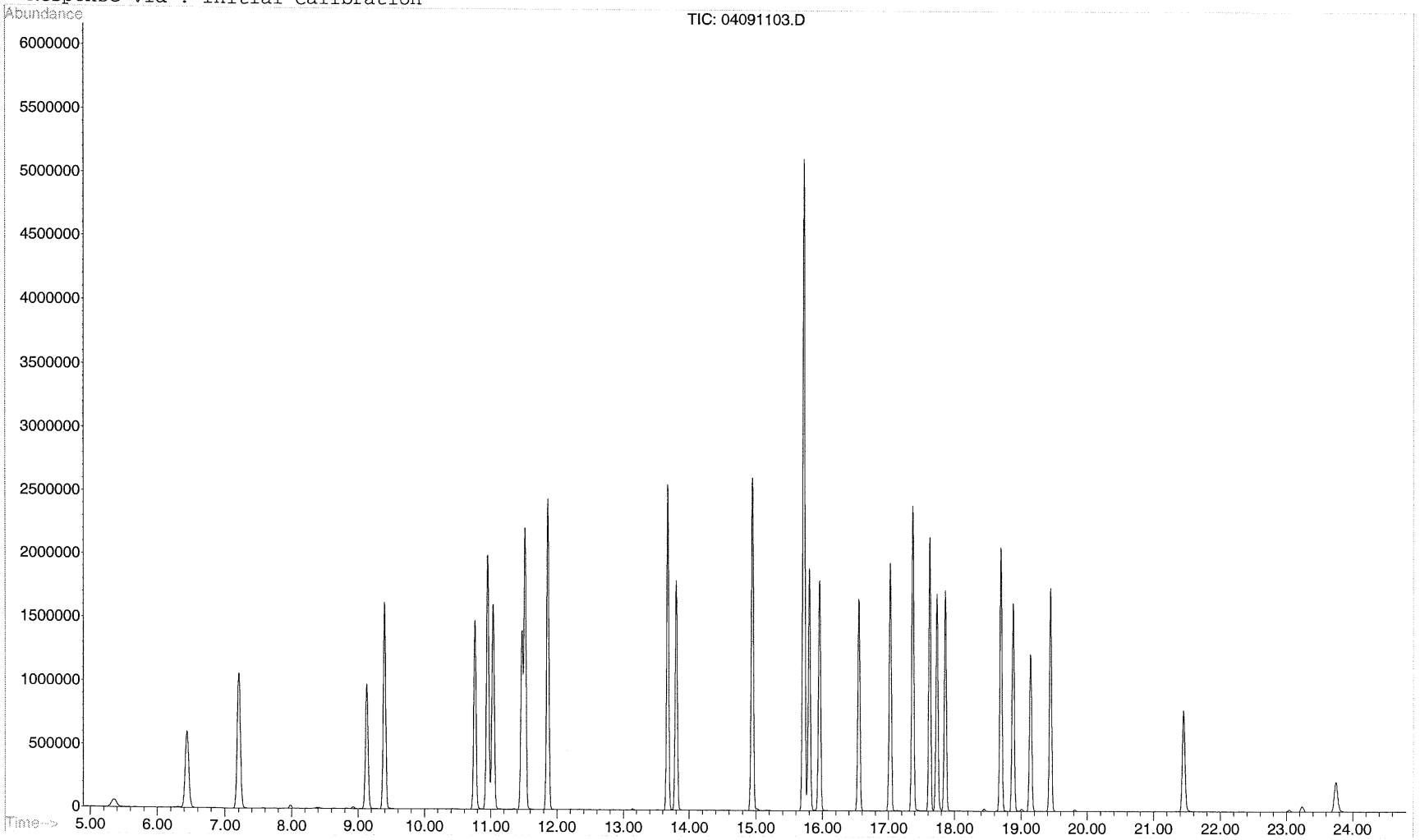
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1887899	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1084789	85.08	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	3589323	38.84	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	4081559	52.27	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	5186123	60.47	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	4181717	49.51	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	4836455	56.90	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	5382518	78.53	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	27257695m	379.08	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	5954693	75.12	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	11022757	157.49	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	4341390	98.62	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	4631051	84.19	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	3841271	103.73	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	2214497	122.39	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	32005659m	619.40	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	494398	69.54	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	497517	70.57	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	665481	71.84	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	138816	80.43	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	468575	73.05	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	386812	81.73	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2651599m	366.50	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	3588867	42.80	ug/m3	100
23) non C5-C8	6.44	TIC	2224761	32.52	ug/m3	100
24) non C5-C8 {2}	9.12	TIC	2737245	52.33	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3686321	83.31	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3195952	45.25	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5611458	73.90	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4129076	54.99	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21584813m	349.69	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11001207	212.90	ug/m3	100
31) non C9-C12	15.71	TIC	11022757	178.30	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	4212229	73.30	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	4141452	62.84	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	3766387	61.65	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5340361	109.81	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	28483186m	378.61	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091103.D Vial: 3
Acq On : 9 Apr 2011 2:40 pm Operator: Michael Truchan
Sample : MASS APH L2 40cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:05 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091104.D Vial: 4
Acq On : 9 Apr 2011 3:21 pm Operator: Michael Truchan
Sample : MASS APH L3 48cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:46 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

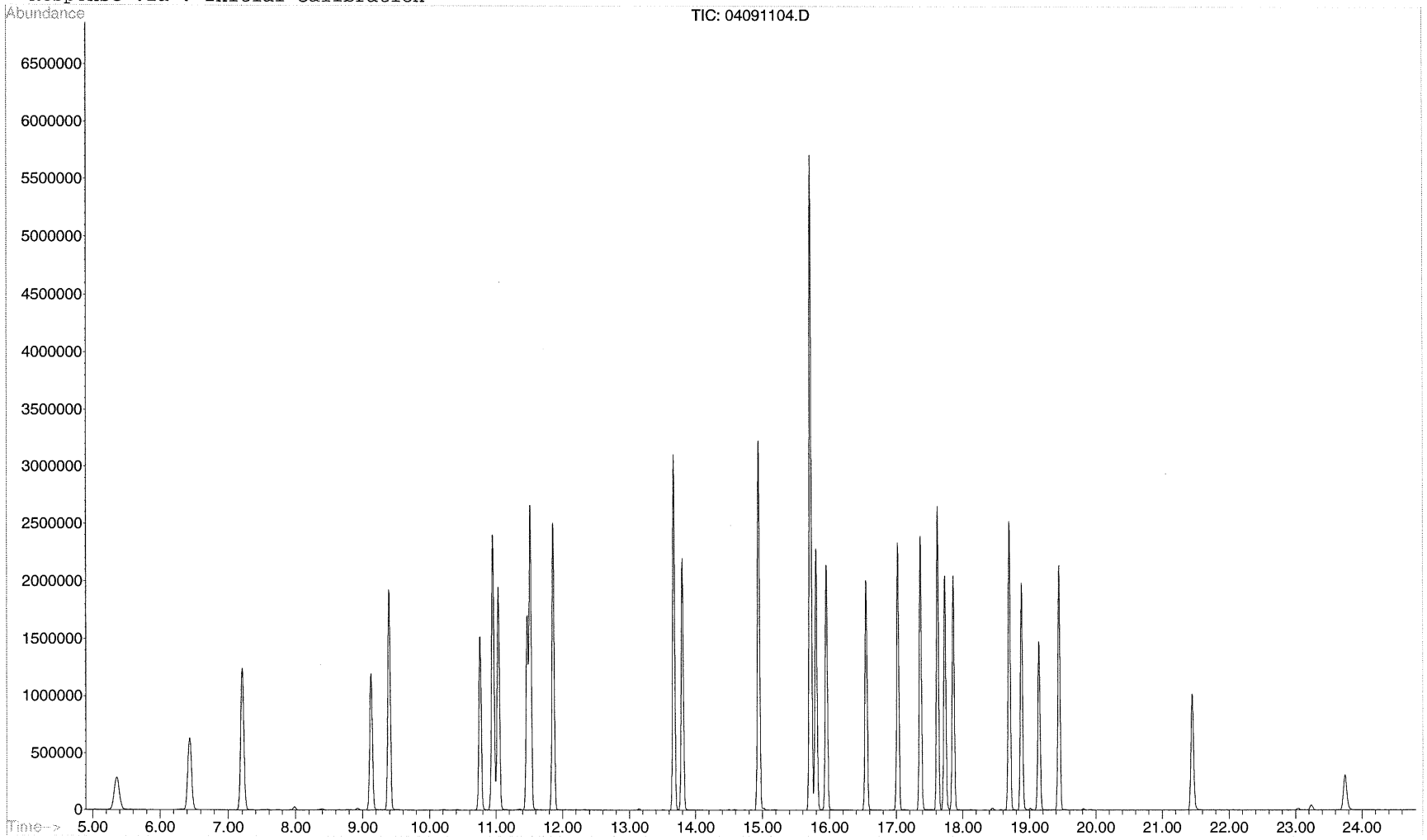
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1920056	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1086589	83.79	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	4169700	45.12	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	4832465	61.89	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	6205269	72.36	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	4952412	58.64	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	6154021	72.40	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	6487668	94.66	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	32801535m	456.17	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	7189833	90.70	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	12185541	174.10	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	5320103	120.86	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	5581309	101.47	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	4629425	125.01	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	2825254	156.14	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	37731465m	730.21	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	588888	82.84	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	591635	83.92	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	793825	85.70	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	169226	98.06	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	560725	87.42	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	464240	98.09	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	3168539m	437.96	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	4162816	49.64	ug/m3	100
23) non C5-C8	6.44	TIC	2479831	36.25	ug/m3	100
24) non C5-C8 {2}	9.12	TIC	3332947	63.72	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3794822	85.76	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3910856	55.37	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5792759	76.29	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4986203	66.41	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	24297418m	393.64	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	12158411	235.30	ug/m3	100
31) non C9-C12	15.71	TIC	12185541	197.11	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	5033585	87.60	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	4962655	75.30	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	4499699	73.66	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5350625	110.02	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	32032105m	425.79	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091104.D Vial: 4
Acq On : 9 Apr 2011 3:21 pm Operator: Michael Truchan
Sample : MASS APH L3 48cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:46 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091105.D Vial: 5
Acq On : 9 Apr 2011 4:02 pm Operator: Michael Truchan
Sample : MASS APH L4 60cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 16:27 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

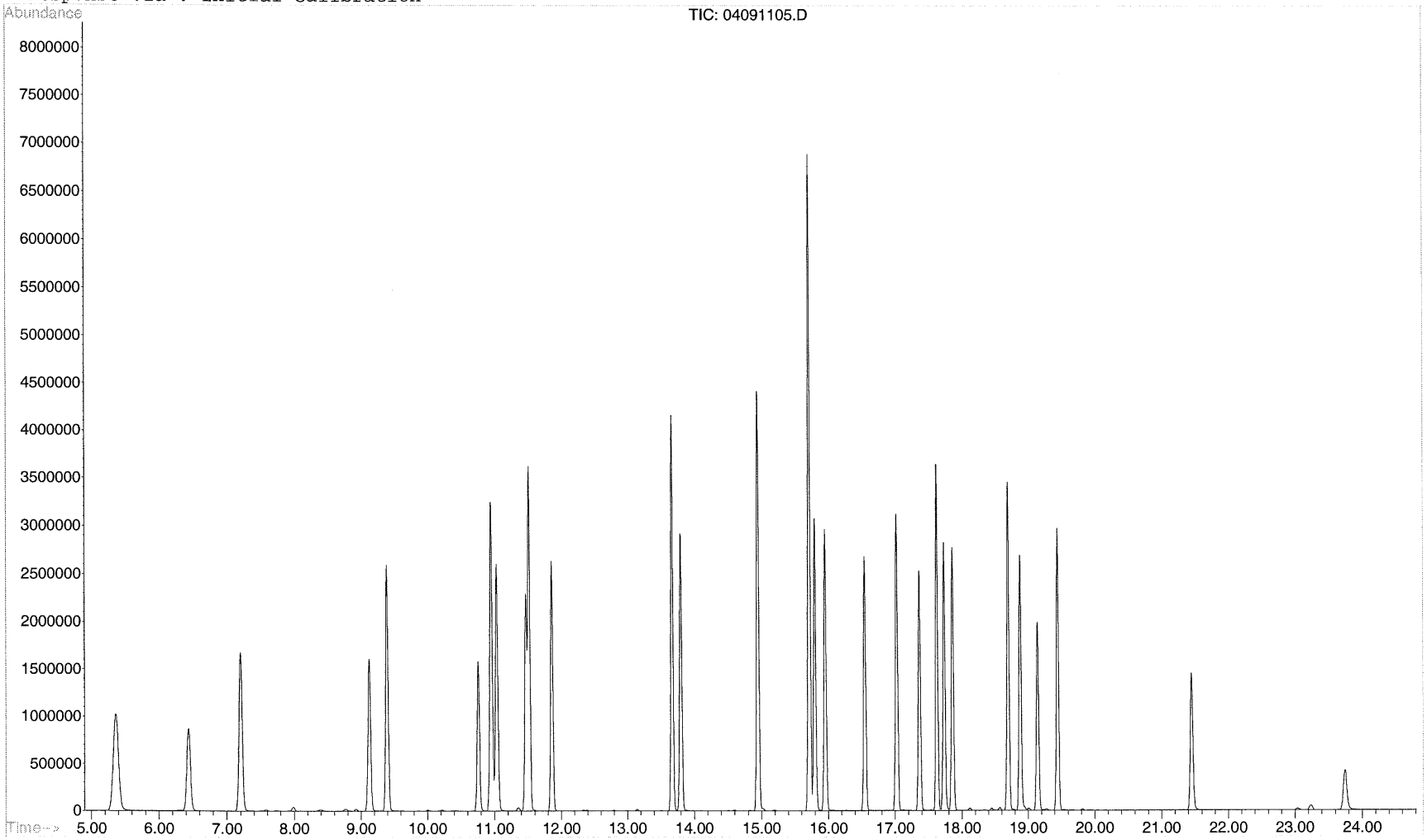
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2042222	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1151764	83.50	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	5580950	60.39	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	6469194	82.85	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	8218614	95.83	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.04	TIC	6680665	79.10	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	7936269	93.36	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	8804362	128.46	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	43690054m	607.60	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	9790309	123.51	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.72	TIC	14704700	210.09	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	7347225	166.90	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	7678903	139.60	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	6438858	173.87	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	3925770	216.97	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	49885765m	965.43	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	801005	112.67	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	797823	113.17	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	1058422	114.26	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	231540	134.16	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	753324	117.45	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	631462	133.42	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	4273576m	590.69	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	5578553	66.53	ug/m3	100
23) non C5-C8	6.44	TIC	3269131	47.79	ug/m3	100
24) non C5-C8 {2}	9.13	TIC	4478186	85.61	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3916527	88.51	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	5489346	77.73	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6021186	79.30	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	6686292	89.05	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	29860668m	483.76	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	14691802	284.33	ug/m3	100
31) non C9-C12	15.72	TIC	14704700	237.85	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	6791861	118.20	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	6689141	101.49	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	6043616	98.93	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5661514	116.41	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	39890832m	530.25	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091105.D 040911V1.M Wed Apr 13 19:04:12 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091105.D Vial: 5
Acq On : 9 Apr 2011 4:02 pm Operator: Michael Truchan
Sample : MASS APH L4 60cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 16:27 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091106.D Vial: 6
Acq On : 9 Apr 2011 4:44 pm Operator: Michael Truchan
Sample : MASS APH L5 80cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:08 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

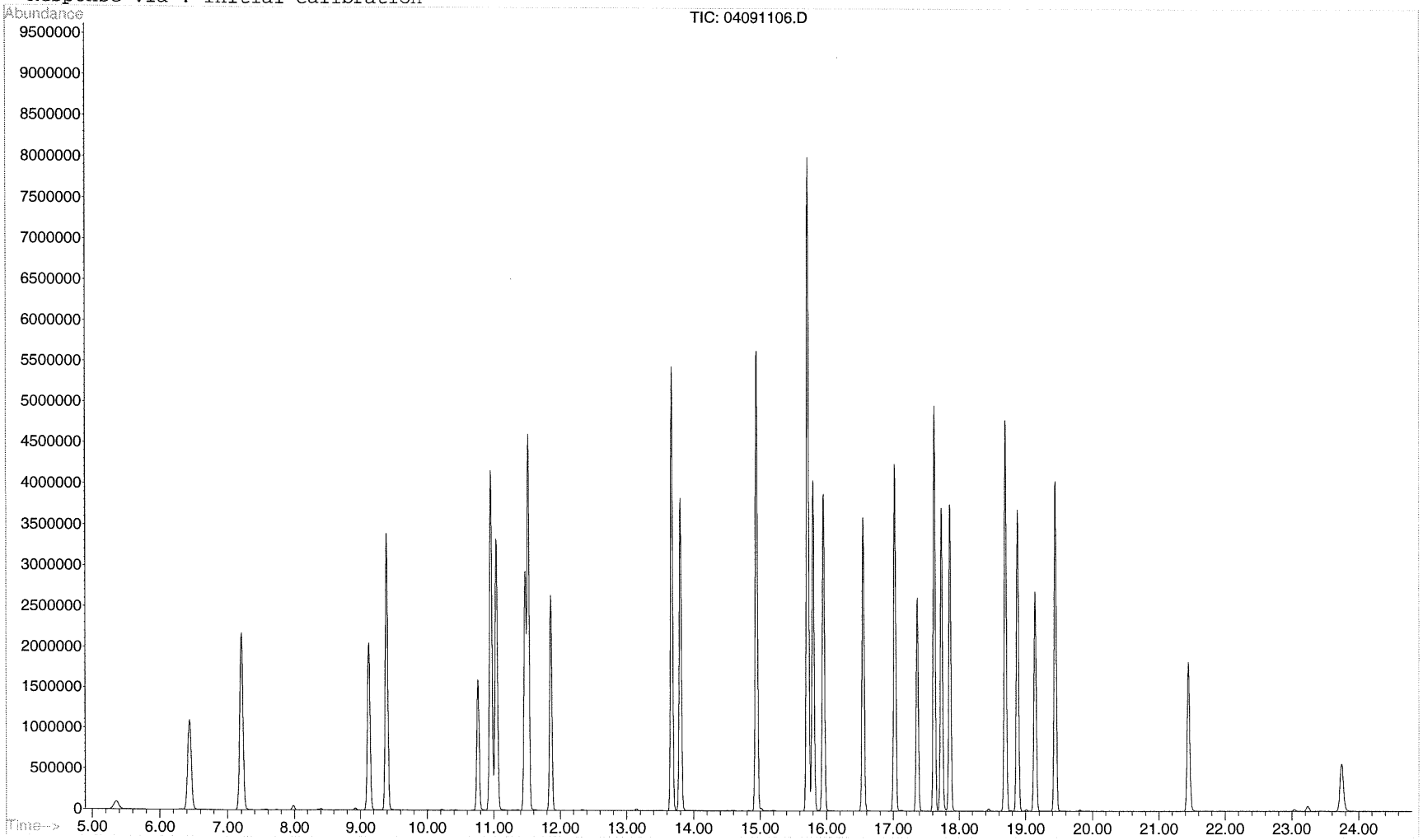
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2094090	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1202783	85.04	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	7197428	77.88	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	8420244	107.84	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	10535904	122.86	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	8660171	102.54	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	10533857	123.92	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	11395467	166.26	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	56743071m	789.13	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	12769173	161.09	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	17392904	248.50	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	9979298	226.70	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	10365886	188.45	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	8873107	239.61	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	4927923	272.35	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	64308291m	1244.54	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	1067664	150.18	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	1067943	151.49	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	1437200	155.15	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	317911	184.21	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	1011545	157.70	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	858469	181.38	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	5760732m	796.25	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	7196965	85.83	ug/m3	100
23) non C5-C8	6.44	TIC	4128214	60.35	ug/m3	100
24) non C5-C8 {2}	9.12	TIC	5692616	108.83	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3984396	90.05	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	6828653	96.69	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	6109860	80.47	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	8663260	115.38	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	35406999m	573.62	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	17356083	335.89	ug/m3	100
31) non C9-C12	15.71	TIC	17392904	281.34	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	8951179	155.78	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	8862065	134.46	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	7971872	130.49	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5878805	120.88	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	49056825m	652.09	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091106.D 040911V1.M Wed Apr 13 19:04:17 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091106.D Vial: 6
Acq On : 9 Apr 2011 4:44 pm Operator: Michael Truchan
Sample : MASS APH L5 80cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:08 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091107.D Vial: 7
Acq On : 9 Apr 2011 5:26 pm Operator: Michael Truchan
Sample : MASS APH L6 125cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:50 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

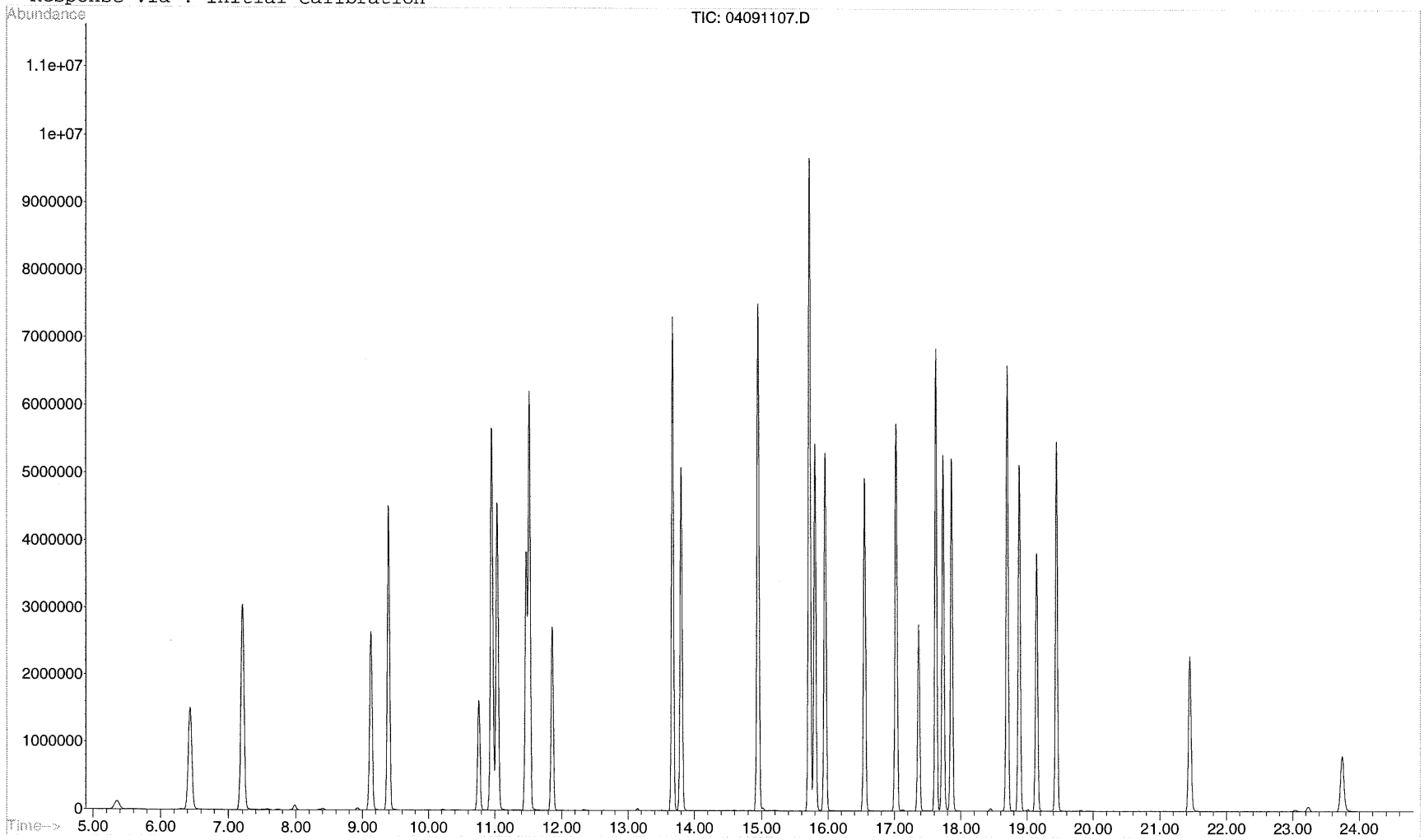
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2153442	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1270296	87.34	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	10211134	110.49	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	11275224	144.40	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	14499047	169.07	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	11846949	140.27	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	14406792	169.49	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	15695237	229.00	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	77934383m	1083.84	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	17392128	219.41	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	21667521	309.57	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	14032875	318.78	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	14611848	265.64	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	12006444	324.22	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	6208577	343.13	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	85919393m	1662.78	ug/m3	
15) C9-C10 Aromatic HC	17.03	120	1504035	211.56	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	1518130	215.35	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	2017933	217.84	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	452310	262.08	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	1441272	224.70	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	1217595	257.26	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	8151275m	1126.67	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	10210999	121.77	ug/m3	100
23) non C5-C8	6.44	TIC	5663625	82.79	ug/m3	100
24) non C5-C8 {2}	9.12	TIC	7301064	139.58	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4060128	91.76	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	8881289	125.75	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	6309633	83.10	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	11531276	153.58	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	43747015m	708.73	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	21624115	418.49	ug/m3	100
31) non C9-C12	15.71	TIC	21667521	350.48	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	12102591	210.62	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	12189200	184.94	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	11052277	180.92	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6184889	127.17	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	63196478m	840.04	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091107.D 040911V1.M Wed Apr 13 19:04:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091107.D Vial: 7
Acq On : 9 Apr 2011 5:26 pm Operator: Michael Truchan
Sample : MASS APH L6 125cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:50 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091108.D Vial: 8
Acq On : 9 Apr 2011 6:08 pm Operator: Michael Truchan
Sample : MASS APH L7 200cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 18:33 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

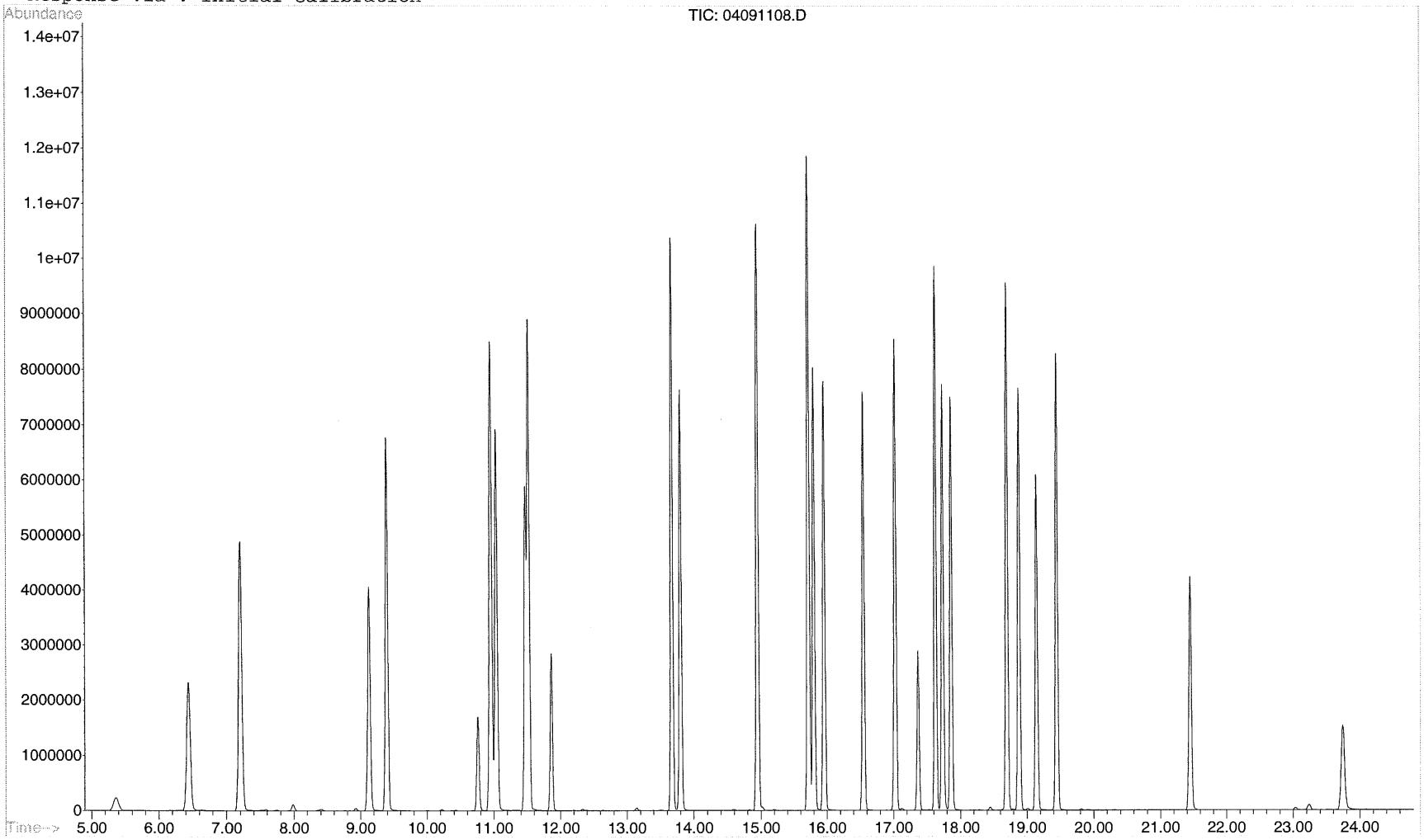
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2062744	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1348770	96.81	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	16509388	178.65	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	17452630	223.52	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	22445677	261.73	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	18379008	217.61	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	21509921	253.05	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	23579925	344.04	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	119876549m	1667.13	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	25955477	327.45	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.72	TIC	28183740	402.68	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	21471625	487.76	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	22661316	411.97	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	19255505	519.97	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	11103321	613.65	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	128630984m	2489.36	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	2346693	330.09	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	2331294	330.70	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	3056946	330.01	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	732908	424.67	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	2352488	366.76	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	1947707	411.53	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	12768036m	1764.80	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	16524572	197.07	ug/m3	100
23) non C5-C8	6.44	TIC	8745455	127.85	ug/m3	100
24) non C5-C8 {2}	9.13	TIC	11338453	216.77	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4246253	95.97	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	13863297	196.29	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	6544916	86.20	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	17774355	236.72	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	62512729m	1012.75	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	28127440	544.34	ug/m3	100
31) non C9-C12	15.72	TIC	28183740	455.88	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	18416479	320.50	ug/m3	100
33) non C9-C12 {3}	15.96	TIC	18478435	280.36	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	17269328	282.69	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	6517639	134.01	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	88865621m	1181.24	ug/m3	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091108.D Vial: 8
Acq On : 9 Apr 2011 6:08 pm Operator: Michael Truchan
Sample : MASS APH L7 200cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 18:33 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040911\04091109.D
Tune Time : 9 Apr 2011 6:48 pm

Daily Calibration File : C:\HPCHEM\1\DATA\040911\04091103.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			1887900
04091109.D	BFB 50cc	101	2067606
04091110.D	APH CCV	101	2160019
04091111.D	APH RLVS	107	1844952
04091113.D	1103389-	107	1833576
04091114.D	1103389-	104	1849836
04091115.D	1103389-	102	1715887
04091116.D	1103389-	109	2168597
04091117.D	1103389-	108	2122421
04091118.D	1103389-	107	2019231
04091119.D	1103389-	111	1988990
04091120.D	1103389-	107	1904966
04091121.D	1103389-	106	1811060
04091122.D	1103389-	107	1792007
04091123.D	1103389-	103	1834651
04091124.D	1103389-	99	1825460
04091125.D	1103389-	120	2141643
04091126.D	1103389-	108	1829564
04091127.D	1103389-	118	2057545
04091128.D	APH RLVS	100	1876457
04091129.D	MBLK 4/0	100	1677261
04091130.D	MBLK 4/1	99	1679224
04091131.D	1103389-	103	1850037
04091132.D	1103389-	110	1927131
04091133.D	1103389-	111	1995120
04091134.D	1103389-	107	1857392
04091135.D	1103389-	108	1866760
04091136.D	1103389-	108	1811783
04091137.D	1103389-	107	1816573
04091138.D	1103389-	109	1770937
04091139.D	1103389-	106	1859953
04091140.D	1103389-	104	1793942
04091141.D	1103389-	105	1799553
04091142.D	1103389-	105	1828823

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-------------------------------------------------------------------------
04091143.Dt1103389-  104                    1685114
-------------------------------------------------------------------------
04091144.DtAPH RLVS   99                    1812434
-------------------------------------------------------------------------
    t - fails 24hr time check   * - fails criteria

    Created: Wed Apr 13 19:08:52 2011  GC
MS Ins
```

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\041111\04111101.D
Tune Time : 11 Apr 2011 10:37 am

Daily Calibration File : C:\HPCHEM\1\DATA\040911\04091103.D

1887900

File	Sample	Surrogate Recovery %	Internal Standard Responses
04111101.D	BFB 50cc	105	1847358
04111102.D	APH CCV	100	1917581
04111103.D	APH RLVS	100	1880164
04111104.D	MBLK 4/1	100	1783600
04111105.D	1103389-	103	1826005
04111106.D	1103389-	102	1489921
04111107.D	1103389-	101	1468713
04111108.D	1103389-	98	1515279
04111109.D	1103389-	97	1468263
04111110.D	1103389-	97	1431762
04111111.D	1103389-	101	1495621
04111112.D	1103389-	100	1511145
04111113.D	1103389-	106	1755736
04111114.D	1103389-	108	1839065
04111115.D	1103389-	109	1792417
04111116.D	1103389-	110	1820309
04111117.D	1103389-	93	1334485
04111118.D	1103389-	96	1580234
04111119.D	1103389-	101	1729834
04111120.D	MBLK(2)	98	1743270
04111121.D	1103609-	107	1793066
04111122.D	1103609-	106	1807064
04111123.D	1103609-	103	1779004
04111124.D	1103609-	106	1833568
04111125.D	1103609-	106	1759930
04111126.D	1103609-	108	1815788
04111127.D	1103609-	103	1762706
04111128.D	1103609-	105	1765491
04111129.D	APH RLVS	99	1821660

t - fails 24hr time check * - fails criteria

Created: Wed Apr 13 19:13:39 2011 GC
S Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\041311\04131101.D
Tune Time : 13 Apr 2011 3:47 pm

Daily Calibration File : C:\HPCHEM\1\DATA\040911\04091103.D

File	Sample	Surrogate Recovery %	Internal Standard Responses (1887900)
04131101.D	BFB 50cc	98	1740103
04131102.D	APH CCV	97	1851998
04131103.D	APH RLVS	97	1902586
04131104.D	MBLK 4/1	95	1762798
04131105.D	1103609-	101	1878673
04131106.D	1103609-	101	1920644
04131107.D	1103389-	109	1978142
04131108.D	1103389-	144*	1737277
04131109.D	1103609-	147*	1627264
04131110.D	BLANK	101	2605276
04131111.D	1103389-	101	2557124
04131112.D	1103389-	101	2548761
04131113.D	1103609-	104	2792036
04131114.D	1103389-	104	2528962
04131115.D	APH RLVS	102	2427829

t - fails 24hr time check * - fails criteria

Created: Fri Apr 15 13:00:35 2011 GC MS Ins

RTI Laboratories

Run ID: GC-TCD 1_110321A **Run No.:** 39442

Analytical Run Date: 3/21/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39442	3/21/2011 11:59:00 PM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39442	3/22/2011 2:16:00 AM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39442	3/22/2011 2:36:00 AM	Robert Lynch		
lcs	ASTM-D2504	LCS	R39442	3/22/2011 2:56:00 AM	Robert Lynch		
lcsd	ASTM-D2504	LCSD	R39442	3/22/2011 3:50:00 AM	Robert Lynch		
mb	ASTM-D2504	MBLK	R39442	3/22/2011 4:12:00 AM	Robert Lynch		
1103389-001a	ASTM-D2504	SAMP	R39442	3/22/2011 4:35:00 AM	Robert Lynch	H	
1103389-002a	ASTM-D2504	SAMP	R39442	3/22/2011 4:55:00 AM	Robert Lynch	H	
1103389-003a	ASTM-D2504	SAMP	R39442	3/22/2011 5:16:00 AM	Robert Lynch	H	
1103389-004a	ASTM-D2504	SAMP	R39442	3/22/2011 5:38:00 AM	Robert Lynch	H	
1103389-005a	ASTM-D2504	SAMP	R39442	3/22/2011 5:57:00 AM	Robert Lynch	H	
1103389-006a	ASTM-D2504	SAMP	R39442	3/22/2011 6:20:00 AM	Robert Lynch	H	
1103389-007a	ASTM-D2504	SAMP	R39442	3/22/2011 6:39:00 AM	Robert Lynch	H	
1103389-008a	ASTM-D2504	SAMP	R39442	3/22/2011 6:59:00 AM	Robert Lynch	H	
1103389-008adup	ASTM-D2504	DUP	R39442	3/22/2011 7:18:00 AM	Robert Lynch	H	
crql std 2% a	ASTM-D2504	CRQL	R39442	3/22/2011 8:05:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39442	3/22/2011 9:14:00 AM	Robert Lynch		

RTI Laboratories

Run ID: GC-TCD 1_110322A **Run No.:** 39443

Analytical Run Date: 3/22/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39443	3/22/2011 10:51:00 PM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39443	3/22/2011 11:16:00 PM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39443	3/23/2011 12:35:00 AM	Robert Lynch		
1103389-009a	ASTM-D2504	SAMP	R39442	3/23/2011 1:01:00 AM	Robert Lynch	H	
1103389-010a	ASTM-D2504	SAMP	R39442	3/23/2011 1:21:00 AM	Robert Lynch	H	
1103389-011a	ASTM-D2504	SAMP	R39442	3/23/2011 2:14:00 AM	Robert Lynch	H	
1103389-012a	ASTM-D2504	SAMP	R39442	3/23/2011 2:51:00 AM	Robert Lynch	H	
1103389-013a	ASTM-D2504	SAMP	R39442	3/23/2011 3:11:00 AM	Robert Lynch	H	
1103389-014a	ASTM-D2504	SAMP	R39442	3/23/2011 3:32:00 AM	Robert Lynch	H	
1103389-015a	ASTM-D2504	SAMP	R39442	3/23/2011 3:53:00 AM	Robert Lynch	H	
1103389-016a	ASTM-D2504	SAMP	R39442	3/23/2011 4:23:00 AM	Robert Lynch	H	
1103389-017a	ASTM-D2504	SAMP	R39442	3/23/2011 4:55:00 AM	Robert Lynch	H	
1103389-018a	ASTM-D2504	SAMP	R39442	3/23/2011 5:22:00 AM	Robert Lynch	H	
1103389-018adup	ASTM-D2504	SAMP	R39442	3/23/2011 5:49:00 AM	Robert Lynch	H	
crql std 2% b	ASTM-D2504	CRQL	R39443	3/23/2011 6:13:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39443	3/23/2011 7:42:00 AM	Robert Lynch		

RTI Laboratories

Run ID: GC-TCD 1_110323A **Run No.:** 39444

Analytical Run Date: 3/23/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39444	3/23/2011 10:04:00 PM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39444	3/23/2011 10:33:00 PM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39444	3/23/2011 10:55:00 PM	Robert Lynch		
lcs	ASTM-D2504	LCS	R39444	3/23/2011 11:22:00 PM	Robert Lynch		
lcsd	ASTM-D2504	LCSD	R39444	3/23/2011 11:56:00 PM	Robert Lynch		
mb	ASTM-D2504	MBLK	R39444	3/24/2011 12:17:00 AM	Robert Lynch		
1103389-019a	ASTM-D2504	SAMP	R39444	3/24/2011 12:42:00 AM	Robert Lynch	H	
1103389-020a	ASTM-D2504	SAMP	R39444	3/24/2011 1:04:00 AM	Robert Lynch	H	
1103389-021a	ASTM-D2504	SAMP	R39444	3/24/2011 1:28:00 AM	Robert Lynch	H	
1103389-022a	ASTM-D2504	SAMP	R39444	3/24/2011 1:53:00 AM	Robert Lynch	H	
1103389-023a	ASTM-D2504	SAMP	R39444	3/24/2011 2:14:00 AM	Robert Lynch	H	
1103389-024a	ASTM-D2504	SAMP	R39444	3/24/2011 3:13:00 AM	Robert Lynch	H	
1103389-025a	ASTM-D2504	SAMP	R39444	3/24/2011 3:39:00 AM	Robert Lynch	H	
1103389-026a	ASTM-D2504	SAMP	R39444	3/24/2011 4:08:00 AM	Robert Lynch	H	
1103389-027a	ASTM-D2504	SAMP	R39444	3/24/2011 4:29:00 AM	Robert Lynch	H	
1103389-028a	ASTM-D2504	SAMP	R39444	3/24/2011 4:55:00 AM	Robert Lynch	H	
1103389-028adup	ASTM-D2504	DUP	R39444	3/24/2011 5:16:00 AM	Robert Lynch	H	
crql std 2% b	ASTM-D2504	CRQL	R39444	3/24/2011 5:43:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39444	3/24/2011 7:06:00 AM	Robert Lynch		

RTI Laboratories

Run ID: GC-TCD 1_110324A **Run No.:** 39445

Analytical Run Date: 3/24/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39445	3/24/2011 10:41:00 PM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39445	3/25/2011 12:03:00 AM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39445	3/25/2011 12:58:00 AM	Robert Lynch		
1103389-029a	ASTM-D2504	SAMP	R39444	3/25/2011 1:21:00 AM	Robert Lynch	H	
1103389-030a	ASTM-D2504	SAMP	R39444	3/25/2011 1:51:00 AM	Robert Lynch	H	
1103389-031a	ASTM-D2504	SAMP	R39444	3/25/2011 2:12:00 AM	Robert Lynch	H	
1103389-032a	ASTM-D2504	SAMP	R39444	3/25/2011 2:31:00 AM	Robert Lynch	H	
1103389-033a	ASTM-D2504	SAMP	R39444	3/25/2011 3:37:00 AM	Robert Lynch	H	
1103389-034a	ASTM-D2504	SAMP	R39444	3/25/2011 4:30:00 AM	Robert Lynch	H	
1103389-035a	ASTM-D2504	SAMP	R39444	3/25/2011 4:54:00 AM	Robert Lynch	H	
1103389-036a	ASTM-D2504	SAMP	R39444	3/25/2011 5:16:00 AM	Robert Lynch	H	
1103389-037a	ASTM-D2504	SAMP	R39444	3/25/2011 5:36:00 AM	Robert Lynch	H	
1103389-037adup	ASTM-D2504	DUP	R39444	3/25/2011 6:02:00 AM	Robert Lynch	H	
ccb	ASTM-D2504	CCB	R39445	3/25/2011 6:22:00 AM	Robert Lynch		
crql std 2% b	ASTM-D2504	CRQL	R39445	3/25/2011 7:08:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39445	3/25/2011 9:18:00 AM			

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39442

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748313	icb	ASTM-D2504	ICB	.TA\032111\0321	3/21/2011 11:59:	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748314	ccv std 1-2 a	ASTM-D2504	CCV	.TA\032111\0321	3/22/2011 2:16:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.426	2.426		2.5	0	0	0.025	0.1	0	97%	85	115	0%	
Carbon Monoxide	A	%	2.476	2.476		2.5	0	0	0.025	0.1	0	99%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	1.953	1.953		2	0	0	0.025	0.5	0	98%	85	115	0%	
Nitrogen	A	%	2.64	2.64		2.5	0	0	0.025	0.1	0	106%	85	115	0%	
Oxygen	A	%	2.343	2.343		2.5	0	0	0.025	0.1	0	94%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748315	crql std 2% a	ASTM-D2504	CRQL	.TA\032111\0321	3/22/2011 2:36:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.253	0.253		0.3	0	0	0.025	0.1	0	84%	80	120	0%	
Carbon Monoxide	A	%	0.131	0.131		0.14	0	0	0.025	0.1	0	94%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.101	0.101		0.09	0	0	0.025	0.5	0	112%	80	120	0%	
Nitrogen	A	%	1.573	1.573		1.39	0	0	0.025	0.1	0	113%	80	120	0%	
Oxygen	A	%	0.081	0.081		0.08	0	0	0.025	0.1	0	101%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748316	lcs	ASTM-D2504	LCS	.TA\032111\0321	3/22/2011 2:56:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748316	lcs	ASTM-D2504	LCS	.TA\032111\0321	3/22/2011 2:56:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.307	2.307		2.5	0	0	0.025	0.1	0	92%	70	130	0%	
Carbon Monoxide	A	%	2.067	2.067		2.5	0	0	0.025	0.1	0	83%	70	130	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Methane	A	%	1.987	1.987		2	0	0	0.025	0.5	0	99%	70	130	0%	
Nitrogen	A	%	2.686	2.686		2.5	0	0	0.025	0.1	0	107%	70	130	0%	
Oxygen	A	%	2.367	2.367		2.5	0	0	0.025	0.1	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748317	lcsd	ASTM-D2504	LCSD	.TA\032111\0321	3/22/2011 3:50:0	1	R39442		0	748316	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.422	2.422		2.5	0	2.307	0.025	0.1	0	97%	70	130	5%	
Carbon Monoxide	A	%	2.489	2.489		2.5	0	2.067	0.025	0.1	0	100%	70	130	19%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Methane	A	%	2.016	2.016		2	0	1.987	0.025	0.5	0	101%	70	130	1%	
Nitrogen	A	%	3.201	3.201		2.5	0	2.686	0.025	0.1	0	128%	70	130	17%	
Oxygen	A	%	2.622	2.622		2.5	0	2.367	0.025	0.1	0	105%	70	130	10%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748318	mb	ASTM-D2504	MBLK	.TA\032111\0321	3/22/2011 4:12:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748319	1103389-001a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 4:35:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	4.923	4.923		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	81.024	81.024		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.062	11.062		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748320	1103389-002a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 4:55:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	8.244	8.244		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	81.442	81.442		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	6.567	6.567		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748321	1103389-003a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 5:16:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.665	0.665		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748321	1103389-003a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 5:16:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	76.87	76.87		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.239	19.239		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748322	1103389-004a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 5:38:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.445	0.445		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.369	77.369		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.165	19.165		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748323	1103389-005a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 5:57:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	4.833	4.833		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.901	79.901		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.601	11.601		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748324	1103389-006a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 6:20:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	4.394	4.394		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.625	78.625		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	13.595	13.595		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748325	1103389-007a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 6:39:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.049	1.049		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.035	78.035		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	16.517	16.517		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748326	1103389-008a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 6:59:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	5.167	5.167		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748326	1103389-008a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032111\0321	3/22/2011 6:59:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	79.335	79.335		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.417	11.417		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748327	1103389-008adup	ASTM-D2504	DUP	.TA\032111\0321	3/22/2011 7:18:0	1	R39442		0	748326	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	5.139	5.139		0	0	5.167	0.13	0.3	0	0%	0	0	1%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.064	79.064		0	0	79.335	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.379	11.379		0	0	11.417	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748328	crql std 2% a	ASTM-D2504	CRQL	.TA\032111\0321	3/22/2011 8:05:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.241	0.241		0.3	0	0	0.025	0.1	0	80%	80	120	0%	
Carbon Monoxide	A	%	0.118	0.118		0.14	0	0	0.025	0.1	0	84%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.078	0.078		0.09	0	0	0.025	0.5	0	87%	80	120	0%	
Nitrogen	A	%	1.235	1.235		1.39	0	0	0.025	0.1	0	89%	80	120	0%	
Oxygen	A	%	0.082	0.082		0.08	0	0	0.025	0.1	0	103%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748329	ccv std 1-2 b	ASTM-D2504	CCV	.TA\032111\0321	3/22/2011 9:14:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748329	ccv std 1-2 b	ASTM-D2504	CCV	.TA\032111\0321	3/22/2011 9:14:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.545	2.545		2.5	0	0	0.025	0.1	0	102%	85	115	0%	
Carbon Monoxide	A	%	2.626	2.626		2.5	0	0	0.025	0.1	0	105%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	2.051	2.051		2	0	0	0.025	0.5	0	103%	85	115	0%	
Nitrogen	A	%	2.799	2.799		2.5	0	0	0.025	0.1	0	112%	85	115	0%	
Oxygen	A	%	2.52	2.52		2.5	0	0	0.025	0.1	0	101%	85	115	0%	

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39443

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748330	icb	ASTM-D2504	ICB	.TA\032211\0322	3/22/2011 10:51:	1	R39443		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748331	ccv std 1-2 a	ASTM-D2504	CCV	.TA\032211\0322	3/22/2011 11:16:	1	R39443		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.468	2.468		2.5	0	0	0.025	0.1	0	99%	85	115	0%	
Carbon Monoxide	A	%	2.724	2.724		2.5	0	0	0.025	0.1	0	109%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	2.102	2.102		2	0	0	0.025	0.5	0	105%	85	115	0%	
Nitrogen	A	%	2.87	2.87		2.5	0	0	0.025	0.1	0	115%	85	115	0%	
Oxygen	A	%	2.596	2.596		2.5	0	0	0.025	0.1	0	104%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748332	crql std 2% a	ASTM-D2504	CRQL	.TA\032211\0322	3/23/2011 12:35:	1	R39443		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.266	0.266		0.3	0	0	0.025	0.1	0	89%	80	120	0%	
Carbon Monoxide	A	%	0.113	0.113		0.14	0	0	0.025	0.1	0	81%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.076	0.076		0.09	0	0	0.025	0.5	0	84%	80	120	0%	
Nitrogen	A	%	1.12	1.12		1.39	0	0	0.025	0.1	0	81%	80	120	0%	
Oxygen	A	%	0.072	0.072		0.08	0	0	0.025	0.1	0	90%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748333	1103389-009a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 1:01:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748333	1103389-009a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 1:01:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	6.858	6.858		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	82.608	82.608		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	8.145	8.145		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748334	1103389-010a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 1:21:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	7.232	7.232		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	83.189	83.189		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	5.932	5.932		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748335	1103389-011a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 2:14:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.776	0.776		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748335	1103389-011a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 2:14:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	78.193	78.193		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.21	19.21		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748336	1103389-012a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 2:51:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.467	0.467		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.133	78.133		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.456	19.456		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748337	1103389-013a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 3:11:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	3.173	3.173		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.103	79.103		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	14.867	14.867		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748338	1103389-014a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 3:32:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	4.999	4.999		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80.275	80.275		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.643	11.643		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748339	1103389-015a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 3:53:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.492	0.492		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.17	77.17		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.47	19.47		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748340	1103389-016a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 4:23:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.623	0.623		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748340	1103389-016a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 4:23:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	77.787	77.787		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.367	19.367		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748341	1103389-017a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 4:55:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.467	0.467		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.666	79.666		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.629	17.629		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748342	1103389-018a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 5:22:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	3.982	3.982		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80	80		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	13.577	13.577		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748343	1103389-018adup	ASTM-D2504	SAMP	.TA\032211\0322	3/23/2011 5:49:0	1	R39442		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	3.969	3.969		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.926	79.926		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	13.566	13.566		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748344	crql std 2% b	ASTM-D2504	CRQL	.TA\032211\0322	3/23/2011 6:13:0	1	R39443		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.35	0.35		0.3	0	0	0.025	0.1	0	117%	80	120	0%	
Carbon Monoxide	A	%	0.167	0.167		0.14	0	0	0.025	0.1	0	119%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.104	0.104		0.09	0	0	0.025	0.5	0	116%	80	120	0%	
Nitrogen	A	%	1.657	1.657		1.39	0	0	0.025	0.1	0	119%	80	120	0%	
Oxygen	A	%	0.082	0.082		0.08	0	0	0.025	0.1	0	103%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748345	ccv std 1-2 b	ASTM-D2504	CCV	.TA\032211\0322	3/23/2011 7:42:0	1	R39443		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.483	2.483		2.5	0	0	0.025	0.1	0	99%	85	115	0%	
Carbon Monoxide	A	%	2.598	2.598		2.5	0	0	0.025	0.1	0	104%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	2.018	2.018		2	0	0	0.025	0.5	0	101%	85	115	0%	
Nitrogen	A	%	2.791	2.791		2.5	0	0	0.025	0.1	0	112%	85	115	0%	
Oxygen	A	%	2.482	2.482		2.5	0	0	0.025	0.1	0	99%	85	115	0%	

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39444

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748346	icb	ASTM-D2504	ICB	.TA\032311\0323	3/23/2011 10:04:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748347	crql std 2% a	ASTM-D2504	CRQL	.TA\032311\0323	3/23/2011 10:33:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.243	0.243		0.3	0	0	0.025	0.1	0	81%	80	120	0%	
Carbon Monoxide	A	%	0.119	0.119		0.14	0	0	0.025	0.1	0	85%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.077	0.077		0.09	0	0	0.025	0.5	0	86%	80	120	0%	
Nitrogen	A	%	1.215	1.215		1.39	0	0	0.025	0.1	0	87%	80	120	0%	
Oxygen	A	%	0.082	0.082		0.08	0	0	0.025	0.1	0	103%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748348	ccv std 1-2 a	ASTM-D2504	CCV	.TA\032311\0323	3/23/2011 10:55:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.331	2.331		2.5	0	0	0.025	0.1	0	93%	85	115	0%	
Carbon Monoxide	A	%	2.548	2.548		2.5	0	0	0.025	0.1	0	102%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	1.983	1.983		2	0	0	0.025	0.5	0	99%	85	115	0%	
Nitrogen	A	%	2.863	2.863		2.5	0	0	0.025	0.1	0	115%	85	115	0%	
Oxygen	A	%	2.512	2.512		2.5	0	0	0.025	0.1	0	100%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748349	lcs	ASTM-D2504	LCS	.TA\032311\0323	3/23/2011 11:22:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748349	lcs	ASTM-D2504	LCS	.TA\032311\0323	3/23/2011 11:22:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.365	2.365		2.5	0	0	0.025	0.1	0	95%	70	130	0%	
Carbon Monoxide	A	%	2.539	2.539		2.5	0	0	0.025	0.1	0	102%	70	130	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Methane	A	%	1.972	1.972		2	0	0	0.025	0.5	0	99%	70	130	0%	
Nitrogen	A	%	2.826	2.826		2.5	0	0	0.025	0.1	0	113%	70	130	0%	
Oxygen	A	%	2.483	2.483		2.5	0	0	0.025	0.1	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748350	lcsd	ASTM-D2504	LCSD	.TA\032311\0323	3/23/2011 11:56:	1	R39444		0	748349	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.297	2.297		2.5	0	2.365	0.025	0.1	0	92%	70	130	3%	
Carbon Monoxide	A	%	2.498	2.498		2.5	0	2.539	0.025	0.1	0	100%	70	130	2%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	70	130	0%	S
Methane	A	%	1.975	1.975		2	0	1.972	0.025	0.5	0	99%	70	130	0%	
Nitrogen	A	%	3.003	3.003		2.5	0	2.826	0.025	0.1	0	120%	70	130	6%	
Oxygen	A	%	2.575	2.575		2.5	0	2.483	0.025	0.1	0	103%	70	130	4%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748351	mb	ASTM-D2504	MBLK	.TA\032311\0323	3/24/2011 12:17:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748352	1103389-019a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 12:42:	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	3.461	3.461		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.495	78.495		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	14.453	14.453		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748353	1103389-020a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 1:04:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.89	2.89		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.492	78.492		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	14.66	14.66		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748354	1103389-021a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 1:28:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	5.627	5.627		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748354	1103389-021a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 1:28:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	78.903	78.903		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.039	11.039		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748355	1103389-022a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 1:53:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	3.983	3.983		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	81.958	81.958		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	10.074	10.074		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748356	1103389-023a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 2:14:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	4.112	4.112		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80.905	80.905		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	9.972	9.972		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748357	1103389-024a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 3:13:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	8.634	8.634		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0.011	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	82.542	82.542		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	5.216	5.216		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748358	1103389-025a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 3:39:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	7.501	7.501		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0.011	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	83.117	83.117		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	4.481	4.481		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748359	1103389-026a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 4:08:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	8.547	8.547		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0.011	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748359	1103389-026a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 4:08:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	83.614	83.614		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	2.766	2.766		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748360	1103389-027a (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 4:29:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.61	1.61		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	76.414	76.414		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.267	17.267		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748361	1103389-028a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032311\0323	3/24/2011 4:55:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.073	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	76.048	76.048		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	20.438	20.438		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748362	1103389-028adup	ASTM-D2504	DUP	.TA\032311\0323	3/24/2011 5:16:0	1	R39444		0	748361	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.067	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	75.668	75.668		0	0	76.048	0.63	1.39	0	0%	0	0	1%	
Oxygen	A	%	20.343	20.343		0	0	20.438	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748363	crql std 2% b	ASTM-D2504	CRQL	.TA\032311\0323	3/24/2011 5:43:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.297	0.297		0.3	0	0	0.025	0.1	0	99%	80	120	0%	
Carbon Monoxide	A	%	0.146	0.146		0.14	0	0	0.025	0.1	0	104%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.091	0.091		0.09	0	0	0.025	0.5	0	101%	80	120	0%	
Nitrogen	A	%	1.48	1.48		1.39	0	0	0.025	0.1	0	106%	80	120	0%	
Oxygen	A	%	0.087	0.087		0.08	0	0	0.025	0.1	0	109%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748364	ccv std 1-2 b	ASTM-D2504	CCV	.TA\032311\0323	3/24/2011 7:06:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.272	2.272		2.5	0	0	0.025	0.1	0	91%	85	115	0%	
Carbon Monoxide	A	%	2.481	2.481		2.5	0	0	0.025	0.1	0	99%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	1.944	1.944		2	0	0	0.025	0.5	0	97%	85	115	0%	
Nitrogen	A	%	2.802	2.802		2.5	0	0	0.025	0.1	0	112%	85	115	0%	
Oxygen	A	%	2.46	2.46		2.5	0	0	0.025	0.1	0	98%	85	115	0%	

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39445

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748365	icb	ASTM-D2504	ICB	.TA\032411\0324	3/24/2011 10:41:	1	R39445		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748366	ccv std 1-2 a	ASTM-D2504	CCV	.TA\032411\0324	3/25/2011 12:03:	1	R39445		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.203	2.203		2.5	0	0	0.13	0.3	0	88%	85	115	0%	
Carbon Monoxide	A	%	2.462	2.462		2.5	0	0	0.066	0.14	0	98%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	1.955	1.955		2	0	0	0.043	0.09	0	98%	85	115	0%	
Nitrogen	A	%	2.816	2.816		2.5	0	0	0.63	1.39	0	113%	85	115	0%	
Oxygen	A	%	2.484	2.484		2.5	0	0	0.03	0.08	0	99%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748380	crql std 2% a	ASTM-D2504	CRQL	.TA\032411\0324	3/25/2011 12:58:	1	R39445		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.346	0.346		0.3	0	0	0.13	0.3	0	115%	80	120	0%	
Carbon Monoxide	A	%	0.166	0.166		0.14	0	0	0.066	0.14	0	119%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.107	0.107		0.09	0	0	0.043	0.09	0	119%	80	120	0%	
Nitrogen	A	%	1.59	1.59		1.39	0	0	0.63	1.39	0	114%	80	120	0%	
Oxygen	A	%	0.081	0.081		0.08	0	0	0.03	0.08	0	101%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748368	1103389-029a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 1:21:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748368	1103389-029a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 1:21:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.132	0.132		0	0	0	0.13	0.3	0	0%	0	0	0%	J
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.393	77.393		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.83	19.83		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748369	1103389-030a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 1:51:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.201	0.201		0	0	0	0.13	0.3	0	0%	0	0	0%	J
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.954	77.954		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.777	19.777		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748370	1103389-031a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 2:12:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.605	0.605		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748370	1103389-031a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 2:12:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	79.316	79.316		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.226	17.226		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748371	1103389-032a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 2:31:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.152	0.152		0	0	0	0.13	0.3	0	0%	0	0	0%	J
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.079	77.079		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.698	19.698		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748372	1103389-033a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 3:37:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.118	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.086	78.086		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	20.189	20.189		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748373	1103389-034a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 4:30:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.142	0.142		0	0	0	0.13	0.3	0	0%	0	0	0%	J
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.231	78.231		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.91	19.91		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748374	1103389-035a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 4:54:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.157	0.157		0	0	0	0.13	0.3	0	0%	0	0	0%	J
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.871	77.871		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.827	19.827		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748375	1103389-036a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 5:16:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.116	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748375	1103389-036a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 5:16:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	77.666	77.666		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.909	19.909		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748376	1103389-037a (Container-1 of 1)	ASTM-D2504	SAMP	.TA\032411\0324	3/25/2011 5:36:0	1	R39444		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.283	1.283		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	83.342	83.342		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	12.27	12.27		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748377	1103389-037adup	ASTM-D2504	DUP	.TA\032411\0324	3/25/2011 6:02:0	1	R39444		0	748376	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.301	1.301		0	0	1.283	0.13	0.3	0	0%	0	0	1%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	83.895	83.895		0	0	83.342	0.63	1.39	0	0%	0	0	1%	
Oxygen	A	%	12.352	12.352		0	0	12.27	0.03	0.08	0	0%	0	0	1%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748378	ccb	ASTM-D2504	CCB	.TA\032411\0324	3/25/2011 6:22:0	1	R39445		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
748379	crql std 2% b	ASTM-D2504	CRQL	.TA\032411\0324	3/25/2011 7:08:0	1	R39445		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.283	0.283		0.3	0	0	0.13	0.3	0	94%	80	120	0%	
Carbon Monoxide	A	%	0.137	0.137		0.14	0	0	0.066	0.14	0	98%	80	120	0%	
Ethane	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Hydrogen	A	%		0		0.025	0	0	0.025	0.5	0	0%	80	120	0%	S
Methane	A	%	0.086	0.086		0.09	0	0	0.043	0.09	0	96%	80	120	0%	
Nitrogen	A	%	1.349	1.349		1.39	0	0	0.63	1.39	0	97%	80	120	0%	
Oxygen	A	%	0.072	0.072		0.08	0	0	0.03	0.08	0	90%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751090	ccv std 1-2 b	ASTM-D2504	CCV	TA\032411D\032	3/25/2011 9:18:0	1	R39445		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.291	2.291		2.5	0	0	0.025	0.1	0	92%	85	115	0%	
Carbon Monoxide	A	%	2.614	2.614		2.5	0	0	0.025	0.1	0	105%	85	115	0%	
Ethane	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Hydrogen	A	%		0		1	0	0	0.025	0.5	0	0%	85	115	0%	S
Methane	A	%	1.954	1.954		2	0	0	0.025	0.5	0	98%	85	115	0%	
Nitrogen	A	%	2.867	2.867		2.5	0	0	0.025	0.1	0	115%	85	115	0%	
Oxygen	A	%	2.595	2.595		2.5	0	0	0.025	0.1	0	104%	85	115	0%	

Spikes and Surrogates Report

RunID: GC-TCD 1_110321A **Analyst:** Mike Budziak

RunNo: 39442

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748314	ccv std 1-2 a	ASTM-D2504	CCV	R39442	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	2.5	2.476	99.04%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	1.953	97.65%	85	115		
☑	Nitrogen	2.5	2.64	105.60%	85	115		
☑	Oxygen	2.5	2.343	93.72%	85	115		
☑	Carbon dioxide	2.5	2.426	97.04%	85	115		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748315	crql std 2% a	ASTM-D2504	CRQL	R39442	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☐	Ethane	0.025	0	0.00%	80	120	*	S
☑	Oxygen	0.08	0.081	101.25%	80	120		
☑	Nitrogen	1.39	1.573	113.17%	80	120		
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Carbon Monoxide	0.14	0.131	93.57%	80	120		
☑	Carbon dioxide	0.3	0.253	84.33%	80	120		
☑	Methane	0.09	0.101	112.22%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748316	lcs	ASTM-D2504	LCS	R39442	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Nitrogen	2.5	2.686	107.44%	70	130		
☑	Oxygen	2.5	2.367	94.68%	70	130		
☑	Carbon dioxide	2.5	2.307	92.28%	70	130		
☑	Carbon Monoxide	2.5	2.067	82.68%	70	130		
☐	Ethane	1	0	0.00%	70	130	*	S
☐	Hydrogen	1	0	0.00%	70	130	*	S
☑	Methane	2	1.987	99.35%	70	130		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748317	lcsd	ASTM-D2504	LCSD	R39442	1	748316

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	RPD	RPD Limit	RPD Out	Qual
☑	Carbon Monoxide	2.5	2.489	99.56%	70	130		18.53%	20		
☐	Ethane	1	0	0.00%	70	130	*	0.00%	20		S
☐	Hydrogen	1	0	0.00%	70	130	*	0.00%	20		S
☑	Methane	2	2.016	100.80%	70	130		1.45%	20		
☑	Nitrogen	2.5	3.201	128.04%	70	130		17.50%	20		
☑	Oxygen	2.5	2.622	104.88%	70	130		10.22%	20		
☑	Carbon dioxide	2.5	2.422	96.88%	70	130		4.86%	20		

Total Recoveries Out: 2 **Total RPD Out:** 0

Spikes and Surrogates Report

RunID: GC-TCD 1_110321A **Analyst:** Mike Budziak

RunNo: 39442

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748328	crql std 2% a	ASTM-D2504	CRQL	R39442	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☐	Ethane	0.025	0	0.00%	80	120	*	S
☑	Oxygen	0.08	0.082	102.50%	80	120		
☑	Nitrogen	1.39	1.235	88.85%	80	120		
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Carbon Monoxide	0.14	0.118	84.29%	80	120		
☑	Carbon dioxide	0.3	0.241	80.33%	80	120		
☑	Methane	0.09	0.078	86.67%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748329	ccv std 1-2 b	ASTM-D2504	CCV	R39442	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.52	100.80%	85	115		
☑	Carbon dioxide	2.5	2.545	101.80%	85	115		
☑	Carbon Monoxide	2.5	2.626	105.04%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	2.051	102.55%	85	115		
☑	Nitrogen	2.5	2.799	111.96%	85	115		

Total Recoveries Out: 2

Spikes and Surrogates Report

RunID: GC-TCD 1_110322A **Analyst:** Mike Budziak

RunNo: 39443

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748331	ccv std 1-2 a	ASTM-D2504	CCV	R39443	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	2.5	2.724	108.96%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	2.102	105.10%	85	115		
☑	Nitrogen	2.5	2.87	114.80%	85	115		
☑	Oxygen	2.5	2.596	103.84%	85	115		
☑	Carbon dioxide	2.5	2.468	98.72%	85	115		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748332	crql std 2% a	ASTM-D2504	CRQL	R39443	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	0.08	0.072	90.00%	80	120		
☑	Carbon dioxide	0.3	0.266	88.67%	80	120		
☑	Carbon Monoxide	0.14	0.113	80.71%	80	120		
☐	Ethane	0.025	0	0.00%	80	120	*	S
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Methane	0.09	0.076	84.44%	80	120		
☑	Nitrogen	1.39	1.12	80.58%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748344	crql std 2% b	ASTM-D2504	CRQL	R39443	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	0.14	0.167	119.29%	80	120		
☐	Ethane	0.025	0	0.00%	80	120	*	S
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Methane	0.09	0.104	115.56%	80	120		
☑	Nitrogen	1.39	1.657	119.21%	80	120		
☑	Oxygen	0.08	0.082	102.50%	80	120		
☑	Carbon dioxide	0.3	0.35	116.67%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748345	ccv std 1-2 b	ASTM-D2504	CCV	R39443	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.482	99.28%	85	115		
☑	Carbon dioxide	2.5	2.483	99.32%	85	115		
☑	Carbon Monoxide	2.5	2.598	103.92%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	2.018	100.90%	85	115		
☑	Nitrogen	2.5	2.791	111.64%	85	115		

Total Recoveries Out: 2

Spikes and Surrogates Report

RunID: GC-TCD 1_110323A **Analyst:** Mike Budziak

RunNo: 39444

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748347	crql std 2% a	ASTM-D2504	CRQL	R39444	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	0.14	0.119	85.00%	80	120		
☐	Ethane	0.025	0	0.00%	80	120	*	S
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Methane	0.09	0.077	85.56%	80	120		
☑	Nitrogen	1.39	1.215	87.41%	80	120		
☑	Oxygen	0.08	0.082	102.50%	80	120		
☑	Carbon dioxide	0.3	0.243	81.00%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748348	ccv std 1-2 a	ASTM-D2504	CCV	R39444	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☐	Ethane	1	0	0.00%	85	115	*	S
☑	Oxygen	2.5	2.512	100.48%	85	115		
☑	Nitrogen	2.5	2.863	114.52%	85	115		
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Carbon Monoxide	2.5	2.548	101.92%	85	115		
☑	Carbon dioxide	2.5	2.331	93.24%	85	115		
☑	Methane	2	1.983	99.15%	85	115		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748349	lcs	ASTM-D2504	LCS	R39444	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Nitrogen	2.5	2.826	113.04%	70	130		
☑	Oxygen	2.5	2.483	99.32%	70	130		
☑	Carbon dioxide	2.5	2.365	94.60%	70	130		
☑	Carbon Monoxide	2.5	2.539	101.56%	70	130		
☐	Ethane	1	0	0.00%	70	130	*	S
☐	Hydrogen	1	0	0.00%	70	130	*	S
☑	Methane	2	1.972	98.60%	70	130		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748350	lcsd	ASTM-D2504	LCSD	R39444	1	748349

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	RPD	RPD Limit	RPD Out	Qual
☑	Carbon Monoxide	2.5	2.498	99.92%	70	130		1.63%	20		
☐	Ethane	1	0	0.00%	70	130	*	0.00%	20		S
☐	Hydrogen	1	0	0.00%	70	130	*	0.00%	20		S
☑	Methane	2	1.975	98.75%	70	130		0.15%	20		
☑	Nitrogen	2.5	3.003	120.12%	70	130		6.07%	20		
☑	Oxygen	2.5	2.575	103.00%	70	130		3.64%	20		
☑	Carbon dioxide	2.5	2.297	91.88%	70	130		2.92%	20		

Total Recoveries Out: 2 **Total RPD Out:** 0

Spikes and Surrogates Report

RunID: GC-TCD 1_110323A **Analyst:** Mike Budziak

RunNo: 39444

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748363	crql std 2% b	ASTM-D2504	CRQL	R39444	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☐	Ethane	0.025	0	0.00%	80	120	*	S
☑	Oxygen	0.08	0.087	108.75%	80	120		
☑	Nitrogen	1.39	1.48	106.47%	80	120		
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Carbon Monoxide	0.14	0.146	104.29%	80	120		
☑	Carbon dioxide	0.3	0.297	99.00%	80	120		
☑	Methane	0.09	0.091	101.11%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748364	ccv std 1-2 b	ASTM-D2504	CCV	R39444	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.46	98.40%	85	115		
☑	Carbon dioxide	2.5	2.272	90.88%	85	115		
☑	Carbon Monoxide	2.5	2.481	99.24%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	1.944	97.20%	85	115		
☑	Nitrogen	2.5	2.802	112.08%	85	115		

Total Recoveries Out: 2

Spikes and Surrogates Report

RunID: GC-TCD 1_110324A **Analyst:** Mike Budziak

RunNo: 39445

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748366	ccv std 1-2 a	ASTM-D2504	CCV	R39445	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	2.5	2.462	98.48%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	1.955	97.75%	85	115		
☑	Nitrogen	2.5	2.816	112.64%	85	115		
☑	Oxygen	2.5	2.484	99.36%	85	115		
☑	Carbon dioxide	2.5	2.203	88.12%	85	115		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748379	crql std 2% b	ASTM-D2504	CRQL	R39445	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	0.08	0.072	90.00%	80	120		
☑	Carbon dioxide	0.3	0.283	94.33%	80	120		
☑	Carbon Monoxide	0.14	0.137	97.86%	80	120		
☐	Ethane	0.025	0	0.00%	80	120	*	S
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Methane	0.09	0.086	95.56%	80	120		
☑	Nitrogen	1.39	1.349	97.05%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
748380	crql std 2% a	ASTM-D2504	CRQL	R39445	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	0.14	0.166	118.57%	80	120		
☐	Ethane	0.025	0	0.00%	80	120	*	S
☐	Hydrogen	0.025	0	0.00%	80	120	*	S
☑	Methane	0.09	0.107	118.89%	80	120		
☑	Nitrogen	1.39	1.59	114.39%	80	120		
☑	Oxygen	0.08	0.081	101.25%	80	120		
☑	Carbon dioxide	0.3	0.346	115.33%	80	120		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751090	ccv std 1-2 b	ASTM-D2504	CCV	R39445	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.595	103.80%	85	115		
☑	Carbon dioxide	2.5	2.291	91.64%	85	115		
☑	Carbon Monoxide	2.5	2.614	104.56%	85	115		
☐	Ethane	1	0	0.00%	85	115	*	S
☐	Hydrogen	1	0	0.00%	85	115	*	S
☑	Methane	2	1.954	97.70%	85	115		
☑	Nitrogen	2.5	2.867	114.68%	85	115		

Total Recoveries Out: 2

Method Blank Contamination Report

Blank ID: mb
SeqNo: 748318
Analysis Date: 3/22/2011 4:12:00 AM
Analyst: Mike Budziak

Batch ID: R39442
TestCode: ASTM-D2504
RunID: GC-TCD 1_110321A
InstrumentID: GC-TCD 1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
icb	748313	ASTM-D2504	ICB	GC-TCD 1_110321A	R39442	3/21/2011 11:59:00 PM	1
ccv std 1-2 a	748314	ASTM-D2504	CCV	GC-TCD 1_110321A	R39442	3/22/2011 2:16:00 AM	1
crql std 2% a	748315	ASTM-D2504	CRQL	GC-TCD 1_110321A	R39442	3/22/2011 2:36:00 AM	1
lcs	748316	ASTM-D2504	LCS	GC-TCD 1_110321A	R39442	3/22/2011 2:56:00 AM	1
lcsd	748317	ASTM-D2504	LCSD	GC-TCD 1_110321A	R39442	3/22/2011 3:50:00 AM	1
1103389-001a	748319	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 4:35:00 AM	1
1103389-002a	748320	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 4:55:00 AM	1
1103389-003a	748321	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 5:16:00 AM	1
1103389-004a	748322	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 5:38:00 AM	1
1103389-005a	748323	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 5:57:00 AM	1
1103389-006a	748324	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 6:20:00 AM	1
1103389-007a	748325	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 6:39:00 AM	1
1103389-008a	748326	ASTM-D2504	SAMP	GC-TCD 1_110321A	R39442	3/22/2011 6:59:00 AM	1
1103389-008adup	748327	ASTM-D2504	DUP	GC-TCD 1_110321A	R39442	3/22/2011 7:18:00 AM	1
crql std 2% a	748328	ASTM-D2504	CRQL	GC-TCD 1_110321A	R39442	3/22/2011 8:05:00 AM	1
ccv std 1-2 b	748329	ASTM-D2504	CCV	GC-TCD 1_110321A	R39442	3/22/2011 9:14:00 AM	1
1103389-009a	748333	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 1:01:00 AM	1
1103389-010a	748334	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 1:21:00 AM	1
1103389-011a	748335	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 2:14:00 AM	1
1103389-012a	748336	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 2:51:00 AM	1
1103389-013a	748337	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 3:11:00 AM	1
1103389-014a	748338	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 3:32:00 AM	1
1103389-015a	748339	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 3:53:00 AM	1
1103389-016a	748340	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 4:23:00 AM	1
1103389-017a	748341	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 4:55:00 AM	1
1103389-018a	748342	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 5:22:00 AM	1
1103389-018adup	748343	ASTM-D2504	SAMP	GC-TCD 1_110322A	R39442	3/23/2011 5:49:00 AM	1

Method Blank Contamination Report

Blank ID: mb
SeqNo: 748351
Analysis Date: 3/24/2011 12:17:00 AM
Analyst: Mike Budziak

Batch ID: R39444
TestCode: ASTM-D2504
RunID: GC-TCD 1_110323A
InstrumentID: GC-TCD 1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
icb	748346	ASTM-D2504	ICB	GC-TCD 1_110323A	R39444	3/23/2011 10:04:00 PM	1
crql std 2% a	748347	ASTM-D2504	CRQL	GC-TCD 1_110323A	R39444	3/23/2011 10:33:00 PM	1
ccv std 1-2 a	748348	ASTM-D2504	CCV	GC-TCD 1_110323A	R39444	3/23/2011 10:55:00 PM	1
lcs	748349	ASTM-D2504	LCS	GC-TCD 1_110323A	R39444	3/23/2011 11:22:00 PM	1
lcsd	748350	ASTM-D2504	LCSD	GC-TCD 1_110323A	R39444	3/23/2011 11:56:00 PM	1
1103389-019a	748352	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 12:42:00 AM	1
1103389-020a	748353	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 1:04:00 AM	1
1103389-021a	748354	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 1:28:00 AM	1
1103389-022a	748355	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 1:53:00 AM	1
1103389-023a	748356	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 2:14:00 AM	1
1103389-024a	748357	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 3:13:00 AM	1
1103389-025a	748358	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 3:39:00 AM	1
1103389-026a	748359	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 4:08:00 AM	1
1103389-027a	748360	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 4:29:00 AM	1
1103389-028a	748361	ASTM-D2504	SAMP	GC-TCD 1_110323A	R39444	3/24/2011 4:55:00 AM	1
1103389-028adup	748362	ASTM-D2504	DUP	GC-TCD 1_110323A	R39444	3/24/2011 5:16:00 AM	1
crql std 2% b	748363	ASTM-D2504	CRQL	GC-TCD 1_110323A	R39444	3/24/2011 5:43:00 AM	1
ccv std 1-2 b	748364	ASTM-D2504	CCV	GC-TCD 1_110323A	R39444	3/24/2011 7:06:00 AM	1
1103389-029a	748368	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 1:21:00 AM	1
1103389-030a	748369	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 1:51:00 AM	1
1103389-031a	748370	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 2:12:00 AM	1
1103389-032a	748371	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 2:31:00 AM	1
1103389-033a	748372	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 3:37:00 AM	1
1103389-034a	748373	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 4:30:00 AM	1
1103389-035a	748374	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 4:54:00 AM	1
1103389-036a	748375	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 5:16:00 AM	1
1103389-037a	748376	ASTM-D2504	SAMP	GC-TCD 1_110324A	R39444	3/25/2011 5:36:00 AM	1
1103389-037adup	748377	ASTM-D2504	DUP	GC-TCD 1_110324A	R39444	3/25/2011 6:02:00 AM	1

Injection Log

Directory: C:\HPCHEM\2\DATA\032111D

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03211101.D	1.	icb	ICB ASTM-D2504	21 Mar 2011 23:59
2	1	03211102.d	1.	ccv std 1-2 a	CCV ASTM-D2504	22 Mar 2011 02:16
3	1	03211103.d	1.	crql std 2% a	CRQL ASTM-D2504	22 Mar 2011 02:36
4	1	03211104.D	1.	lcs	LCS ASTM-D2504	22 Mar 2011 02:56
5	1	03211105.D	1.	lcsd	LCSD ASTM-D2504	22 Mar 2011 03:50
6	1	03211106.D	1.	mb	MBLK ASTM-D2504	22 Mar 2011 04:12
7	1	03211107.D	1.	1103389-001a	SAMP ASTM-D2504	22 Mar 2011 04:35
8	1	03211108.D	1.	1103389-002a	SAMP ASTM-D2504	22 Mar 2011 04:55
9	1	03211109.D	1.	1103389-003a	SAMP ASTM-D2504	22 Mar 2011 05:16
10	1	03211110.D	1.	1103389-004a	SAMP ASTM-D2504	22 Mar 2011 05:38
11	1	03211111.D	1.	1103389-005a	SAMP ASTM-D2504	22 Mar 2011 05:57
12	1	03211112.D	1.	1103389-006a	SAMP ASTM-D2504	22 Mar 2011 06:20
13	1	03211113.D	1.	1103389-007a	SAMP ASTM-D2504	22 Mar 2011 06:39
14	1	03211114.D	1.	1103389-008a	SAMP ASTM-D2504	22 Mar 2011 06:59
15	1	03211115.D	1.	1103389-008adup	DUP ASTM-D2504	22 Mar 2011 07:18
16	1	03211116.D	1.	crql std 2% a	CRQL ASTM-D2504	22 Mar 2011 08:05
17	1	03211117.D	1.	ccv std 1-2 b	CCV ASTM-D2504	22 Mar 2011 09:14

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211101.D Vial: 1
Acq On : 21 Mar 2011 11:59 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:24 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

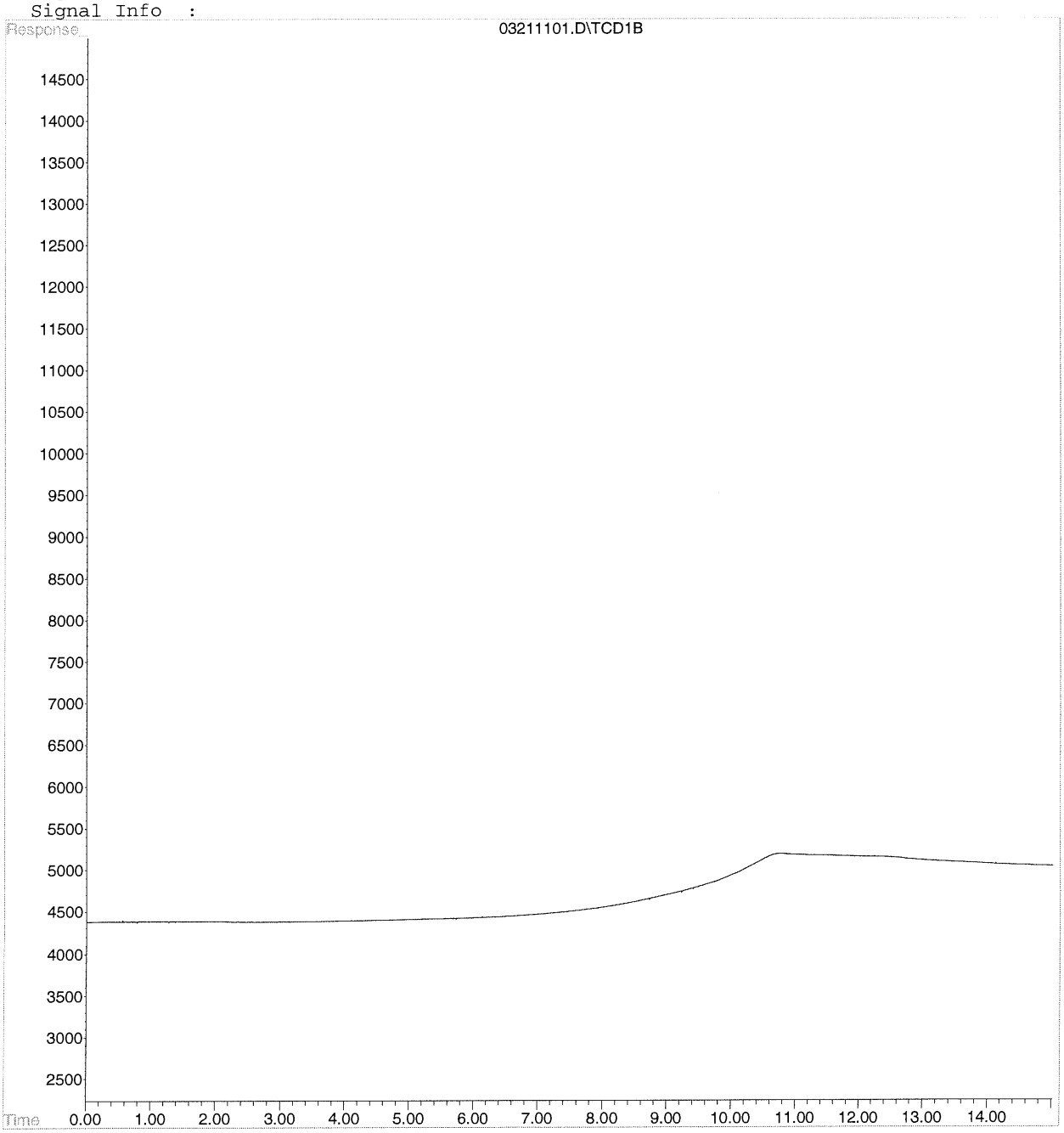
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211101.D Vial: 1
Acq On : 21 Mar 2011 11:59 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:24 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032111D\03211102.D Vial: 1
Acq On : 22 Mar 2011 2:16 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.343	6.3	0	0.04
2	Nitrogen	2.500	2.640	-5.6	0	0.04
3	Carbon Monoxide	2.500	2.476	1.0	0	0.04
4	Methane	2.000	1.953	2.3	0	0.02
5	Carbon dioxide	2.500	2.426	3.0	0	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032111D\03211102.D Vial: 1
Acq On : 22 Mar 2011 2:16 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:03:56 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211102.D Vial: 1
Acq On : 22 Mar 2011 2:16 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:25 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	366313	2.343 %
2)	Nitrogen	2.33	459330	2.640 %
3)	Carbon Monoxide	3.03	407159	2.476 %
4)	Methane	6.27	268964	1.953 %
5)	Carbon dioxide	11.22	496626	2.426 %

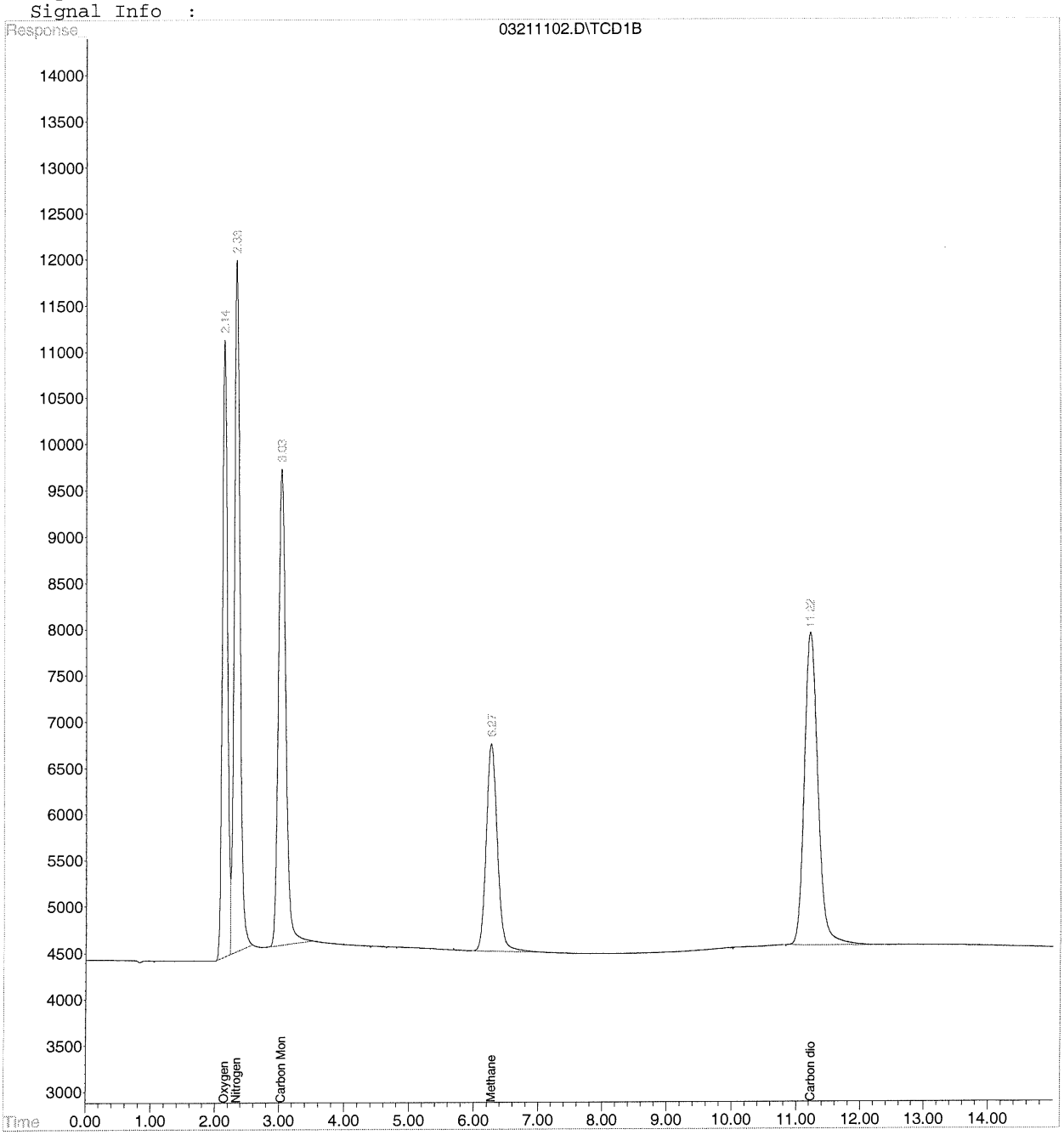
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211102.D Vial: 1
Acq On : 22 Mar 2011 2:16 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:25 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032111D\03211103.D Vial: 1
Acq On : 22 Mar 2011 2:36 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.081	-1.3	106	0.04
2	Nitrogen	1.390	1.573	-13.2	137	0.04
3	Carbon Monoxide	0.140	0.131	6.4	114	0.04
4	Methane	0.090	0.101	-12.2	139	0.02
5	Carbon dioxide	0.300	0.253	15.7	89	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032111D\03211103.D Vial: 1
Acq On : 22 Mar 2011 2:36 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:04:15 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211103.D Vial: 1
Acq On : 22 Mar 2011 2:36 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 2:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	12689	0.081 %
2)	Nitrogen	2.33	273707	1.573 %
3)	Carbon Monoxide	3.03	21522	0.131 %
4)	Methane	6.27	13881	0.101 %
5)	Carbon dioxide	11.23	51699	0.253 %

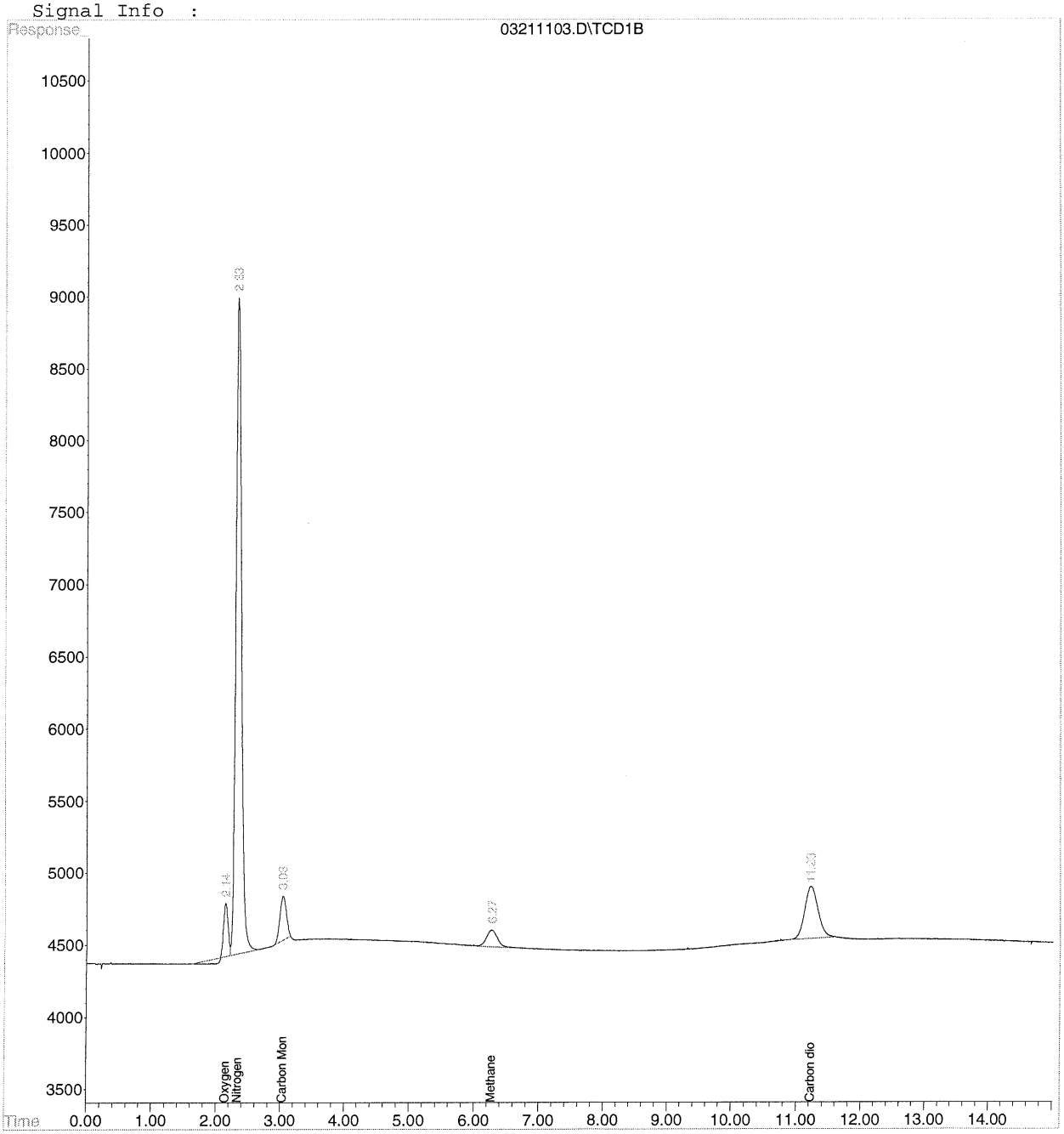
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211103.D Vial: 1
Acq On : 22 Mar 2011 2:36 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 22 2:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211104.D Vial: 1
Acq On : 22 Mar 2011 2:56 am Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 3:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

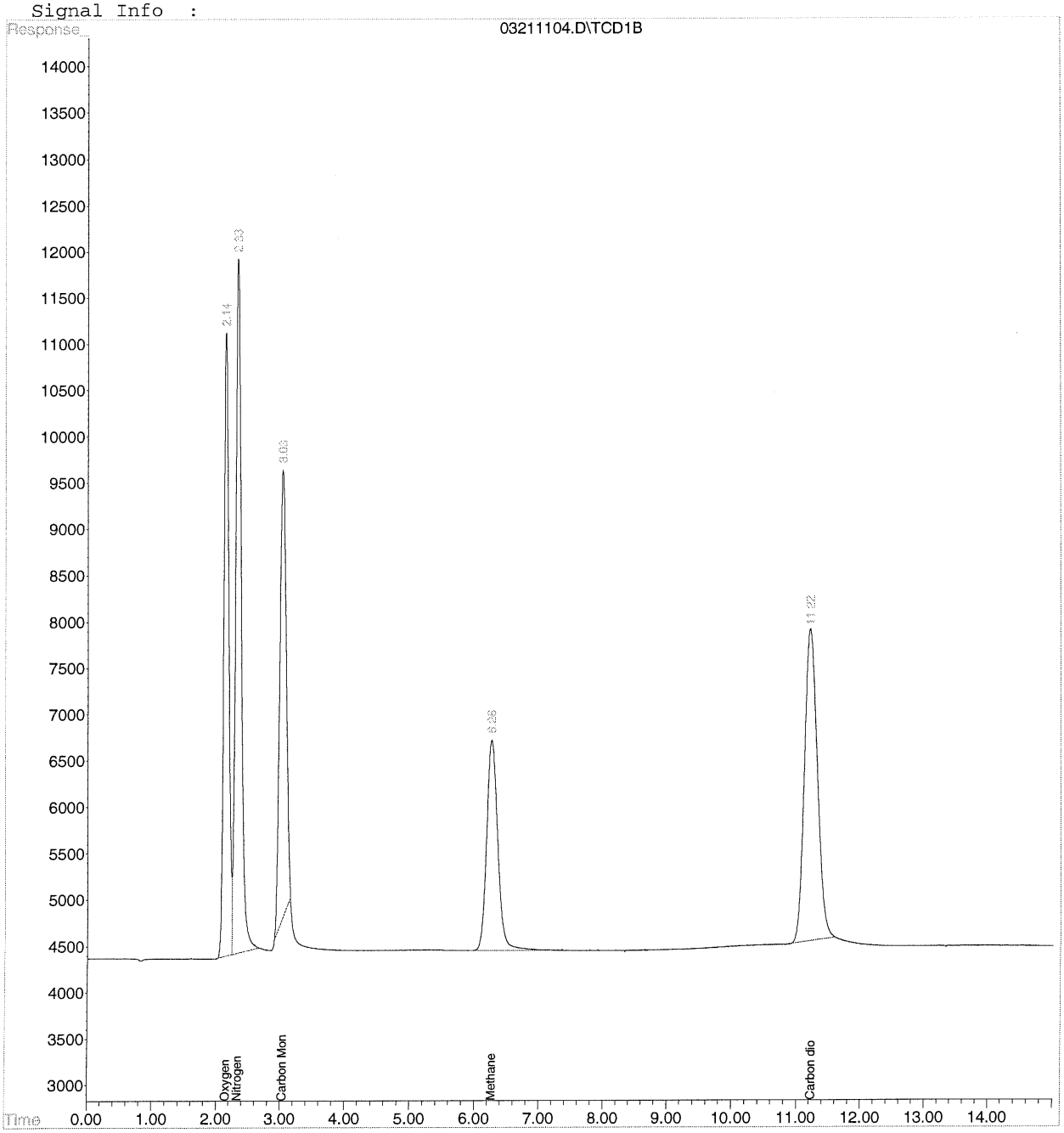
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.14	370065	2.367 %
2)	Nitrogen	2.33	467448	2.686 %
3)	Carbon Monoxide	3.03	339919	2.067 %
4)	Methane	6.27	273600	1.987 %
5)	Carbon dioxide	11.22	472277	2.307 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211104.D Vial: 1
Acq On : 22 Mar 2011 2:56 am Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 22 3:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211105.D Vial: 1
Acq On : 22 Mar 2011 3:50 am Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

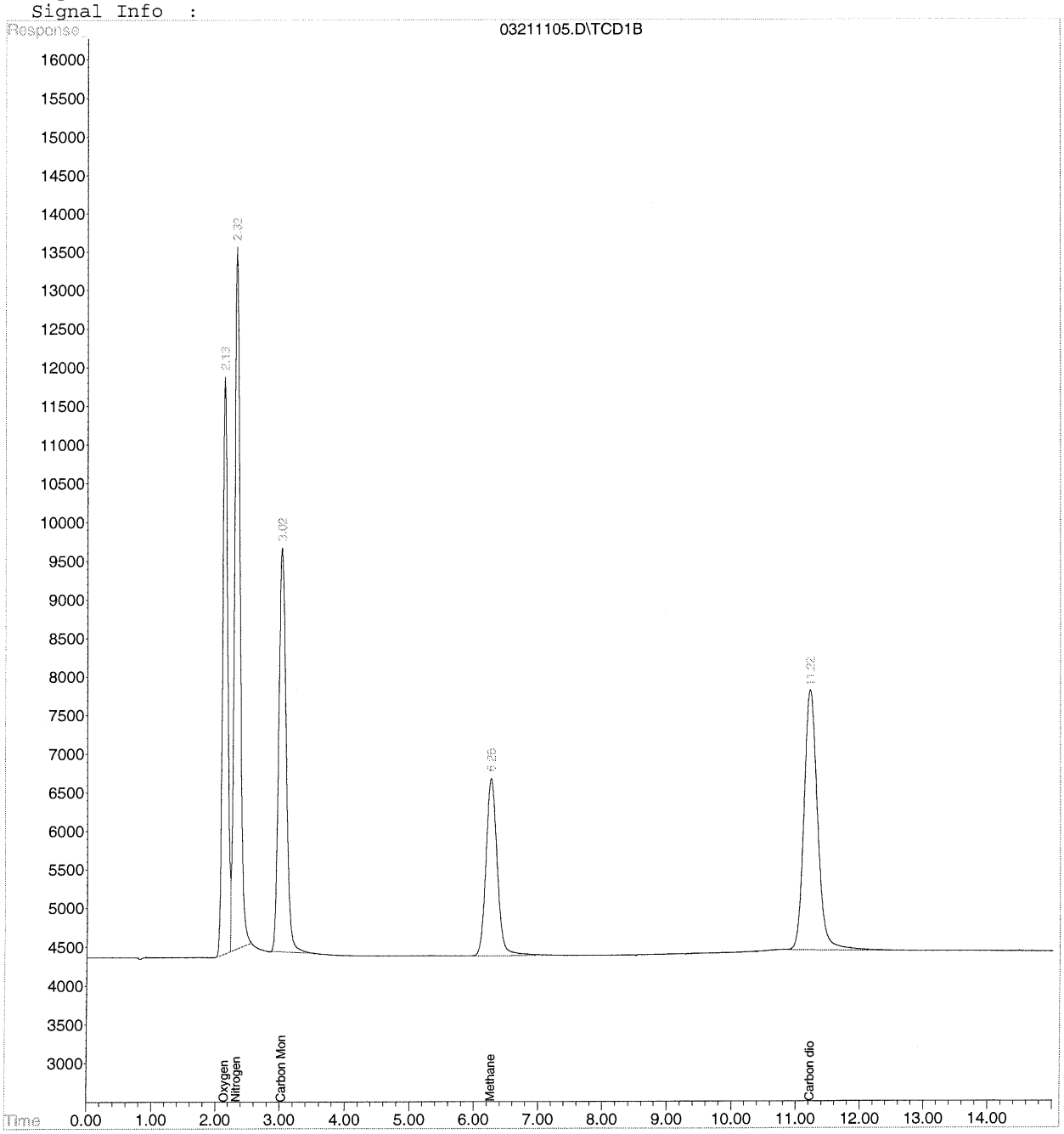
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.13	409830	2.622 %
2)	Nitrogen	2.32	557067	3.201 %
3)	Carbon Monoxide	3.02	409271	2.489 %
4)	Methane	6.26	277557	2.016 %
5)	Carbon dioxide	11.22	495714	2.422 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211105.D Vial: 1
Acq On : 22 Mar 2011 3:50 am Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211106.D Vial: 1
Acq On : 22 Mar 2011 4:12 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

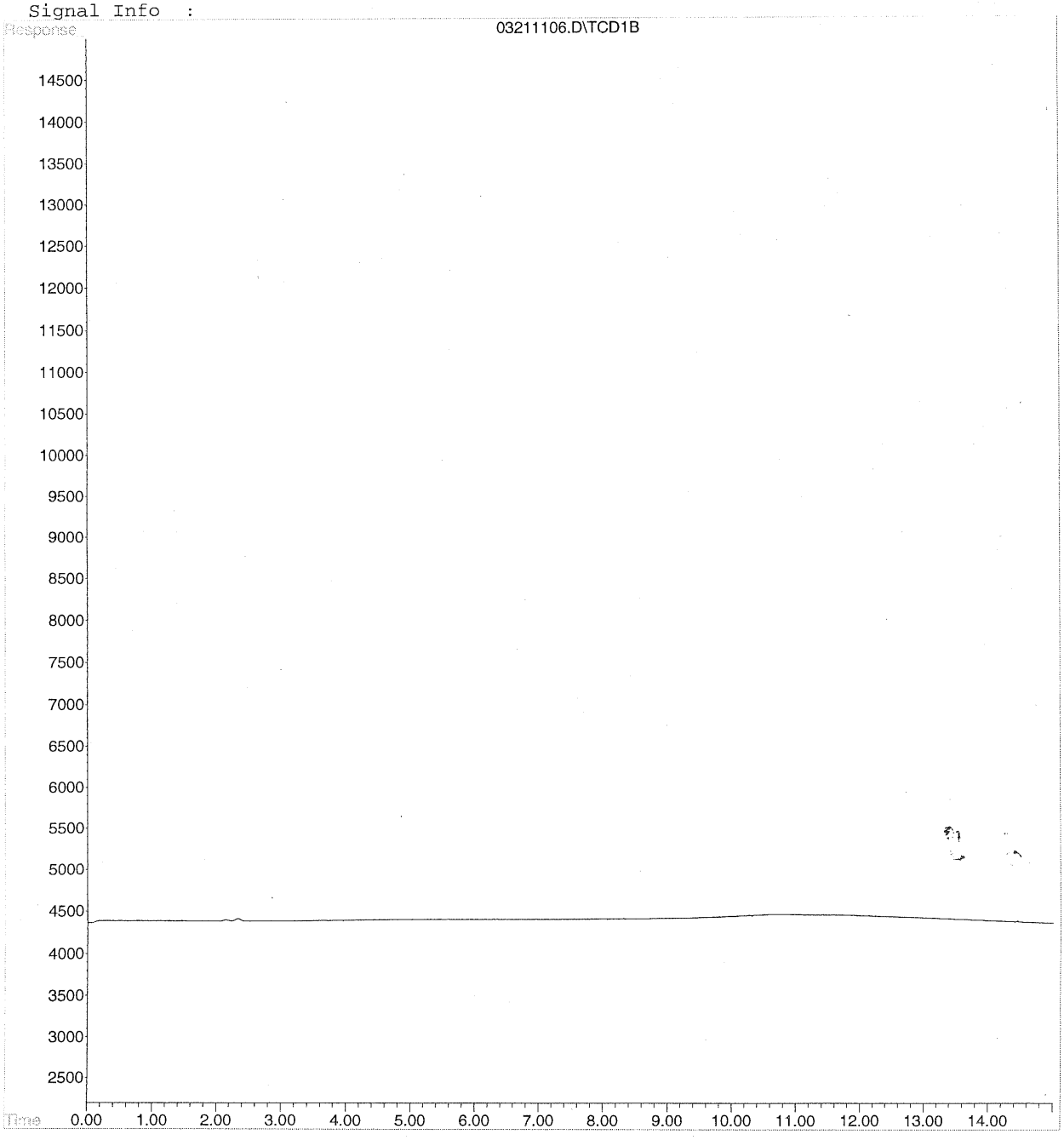
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211106.D Vial: 1
Acq On : 22 Mar 2011 4:12 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211107.D Vial: 1
Acq On : 22 Mar 2011 4:35 am Operator:
Sample : 1103389-001a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1729151	11.062	%
2)	Nitrogen	2.28	14098940	81.024	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1007699	4.923	%

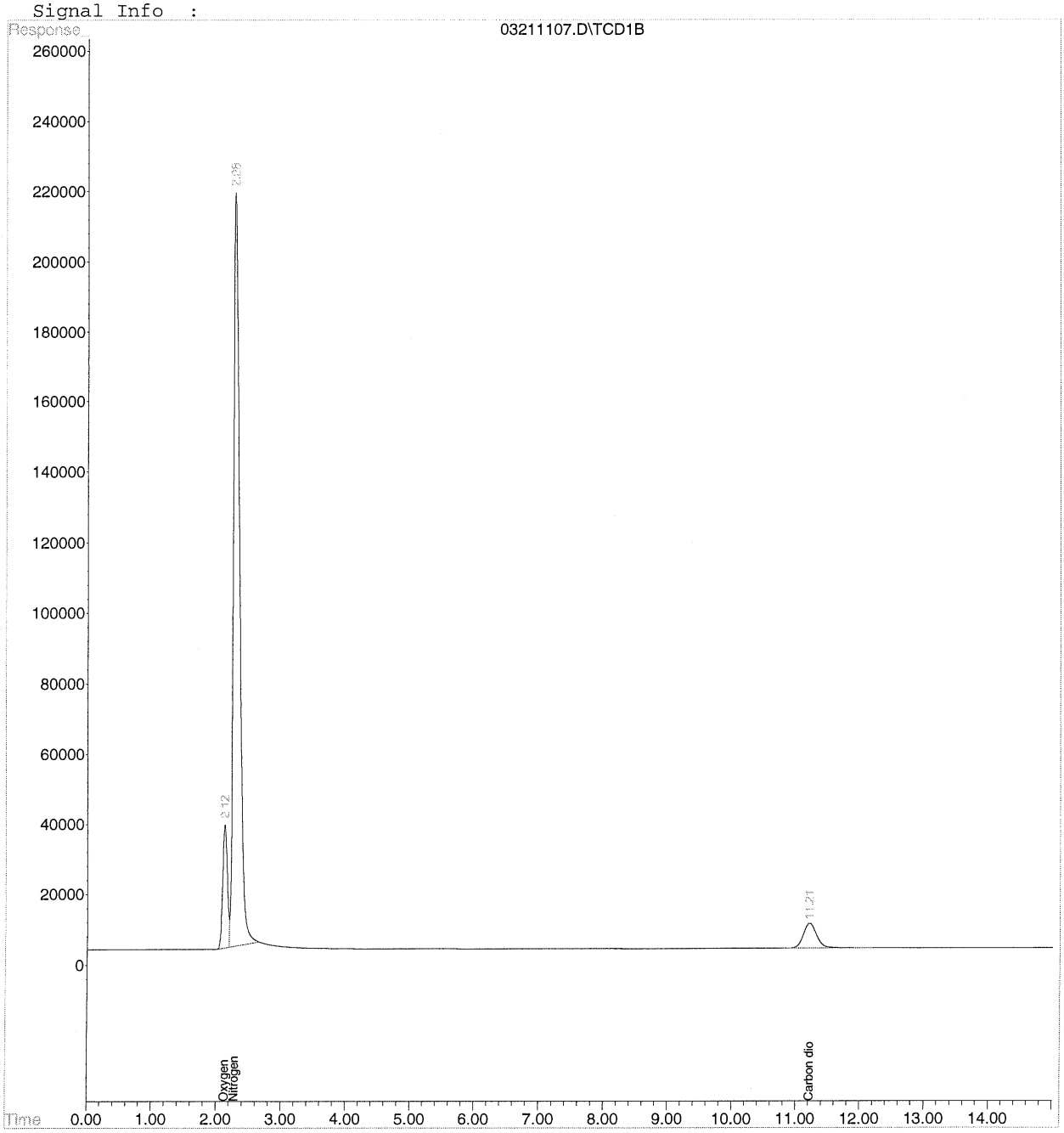
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211107.D Vial: 1
Acq On : 22 Mar 2011 4:35 am Operator:
Sample : 1103389-001a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211108.D Vial: 1
Acq On : 22 Mar 2011 4:55 am Operator:
Sample : 1103389-002a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

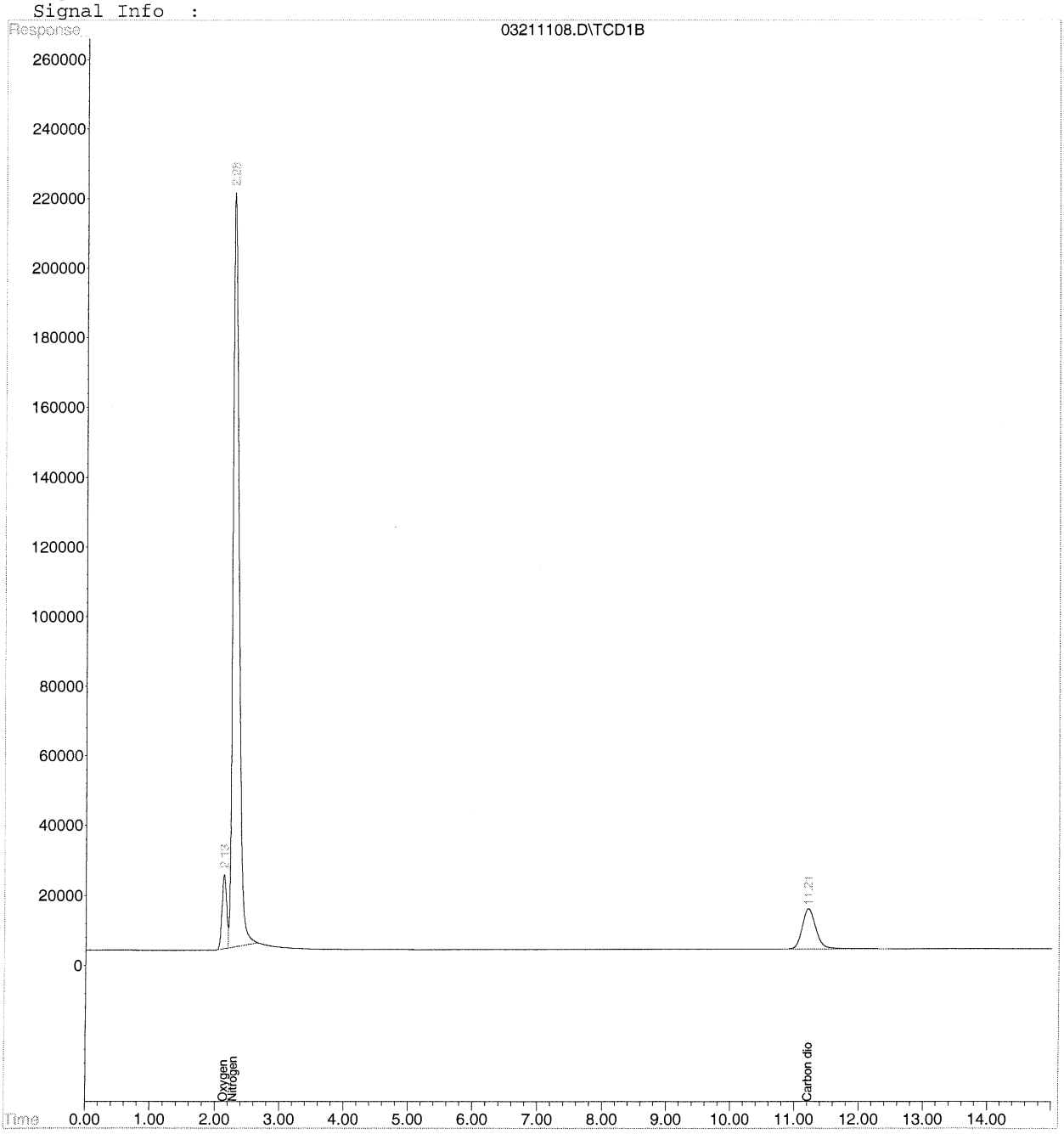
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1026567	6.567	%
2)	Nitrogen	2.28	14171603	81.442	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1687617	8.244	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211108.D Vial: 1
Acq On : 22 Mar 2011 4:55 am Operator:
Sample : 1103389-002a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211109.D Vial: 1
Acq On : 22 Mar 2011 5:16 am Operator:
Sample : 1103389-003a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3007272	19.239	%
2)	Nitrogen	2.28	13375983	76.870	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	136058	0.665	%

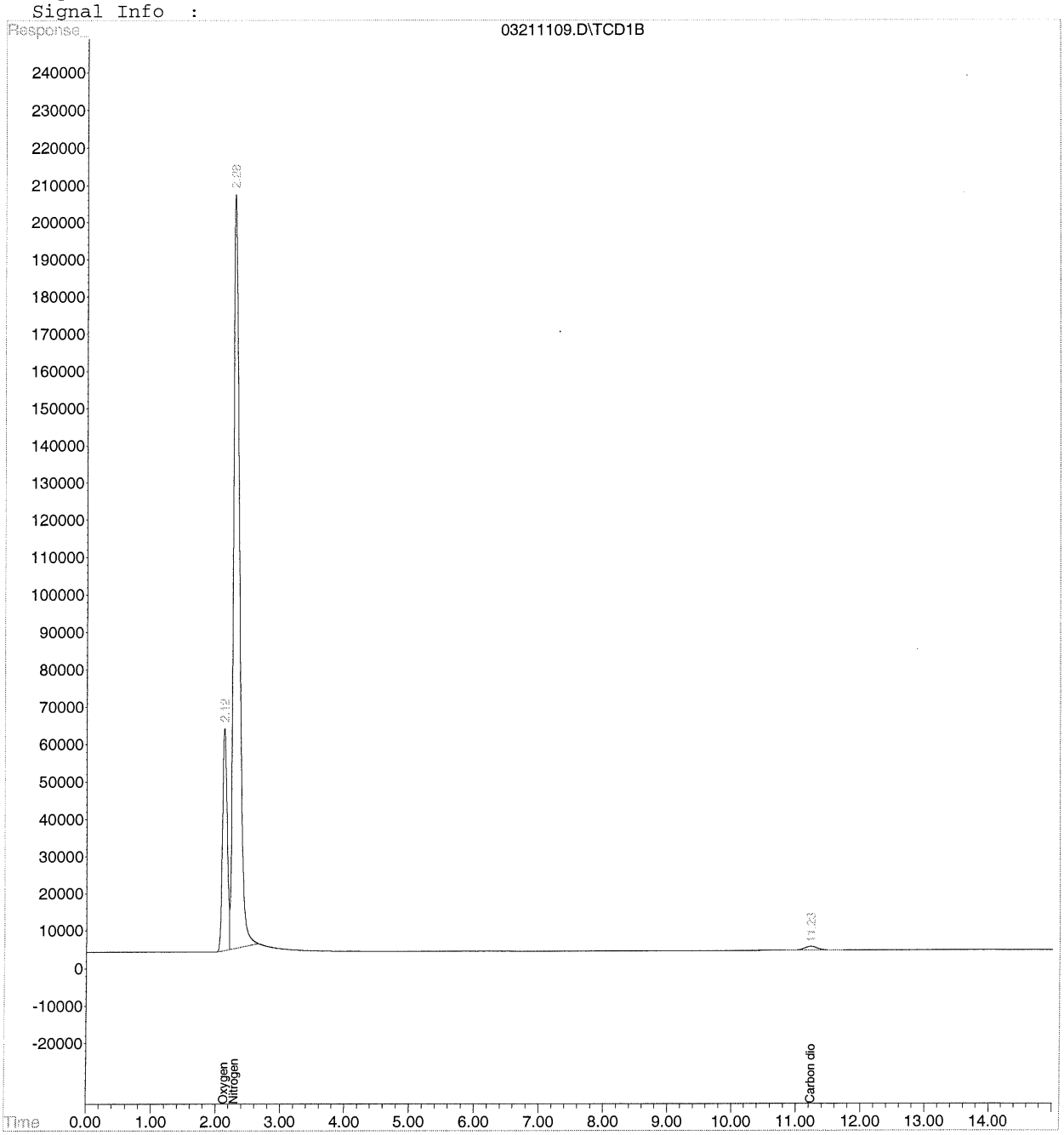
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211109.D Vial: 1
Acq On : 22 Mar 2011 5:16 am Operator:
Sample : 1103389-003a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211110.D Vial: 1
Acq On : 22 Mar 2011 5:38 am Operator:
Sample : 1103389-004a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2995777	19.165	%
2)	Nitrogen	2.28	13462776	77.369	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	91112	0.445	%

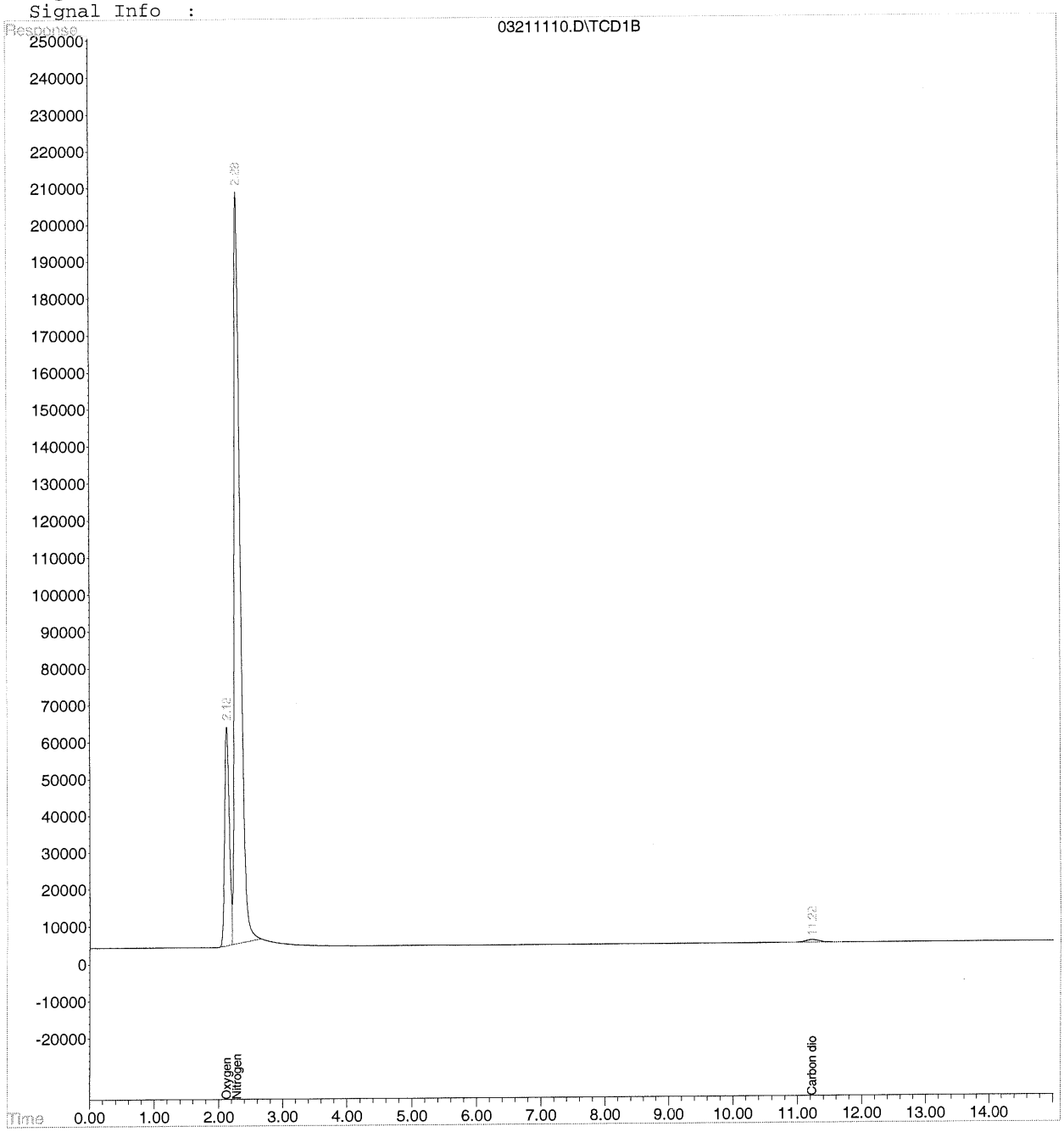
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211110.D Vial: 1
Acq On : 22 Mar 2011 5:38 am Operator:
Sample : 1103389-004a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211111.D Vial: 1
Acq On : 22 Mar 2011 5:57 am Operator:
Sample : 1103389-005a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:34 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1813304	11.601	%
2)	Nitrogen	2.28	13903435	79.901	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	989358	4.833	%

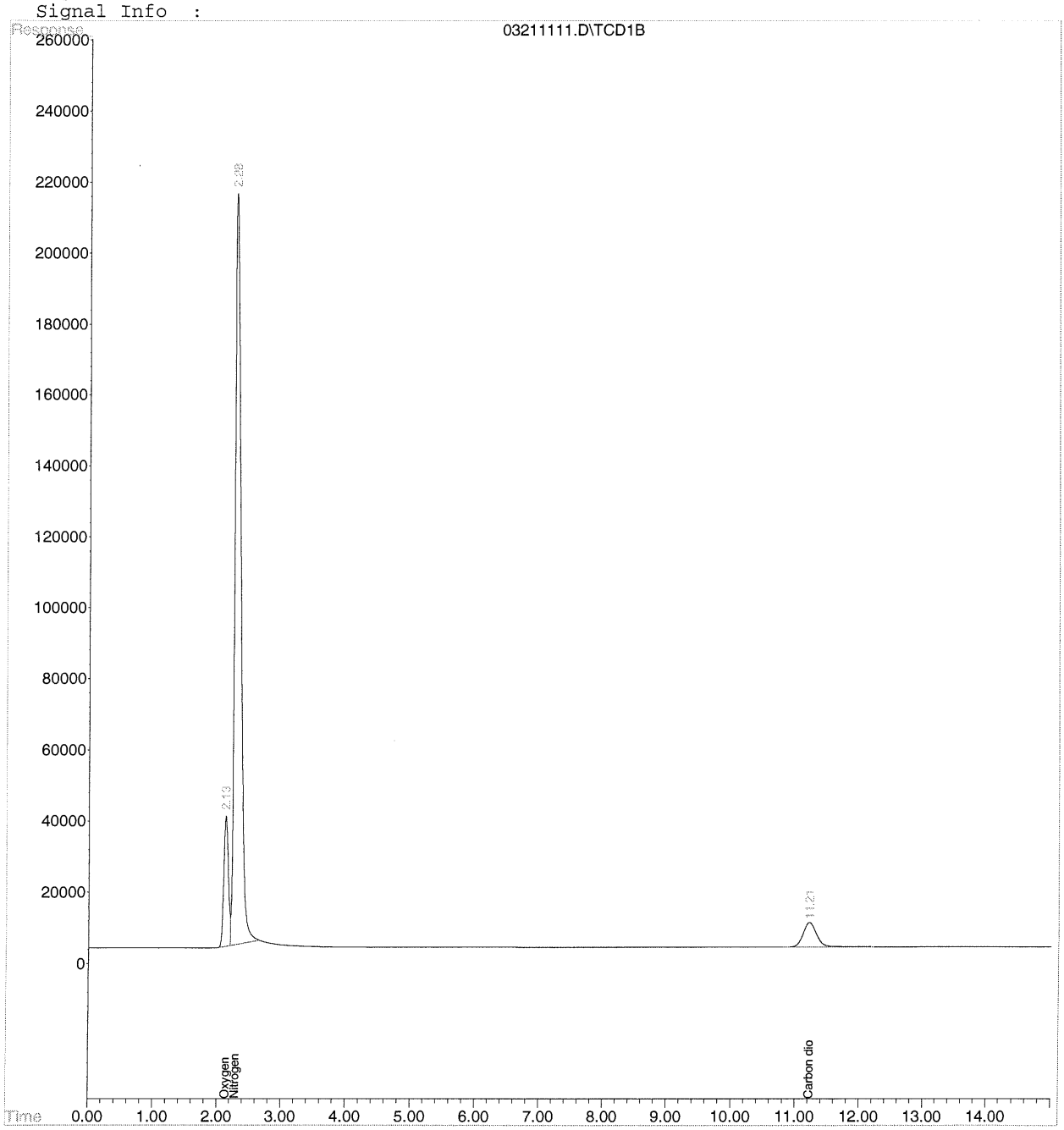
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211111.D Vial: 1
Acq On : 22 Mar 2011 5:57 am Operator:
Sample : 1103389-005a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:34 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211112.D Vial: 1
Acq On : 22 Mar 2011 6:20 am Operator:
Sample : 1103389-006a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:34 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2125010	13.595	%
2)	Nitrogen	2.28	13681339	78.625	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	899463	4.394	%

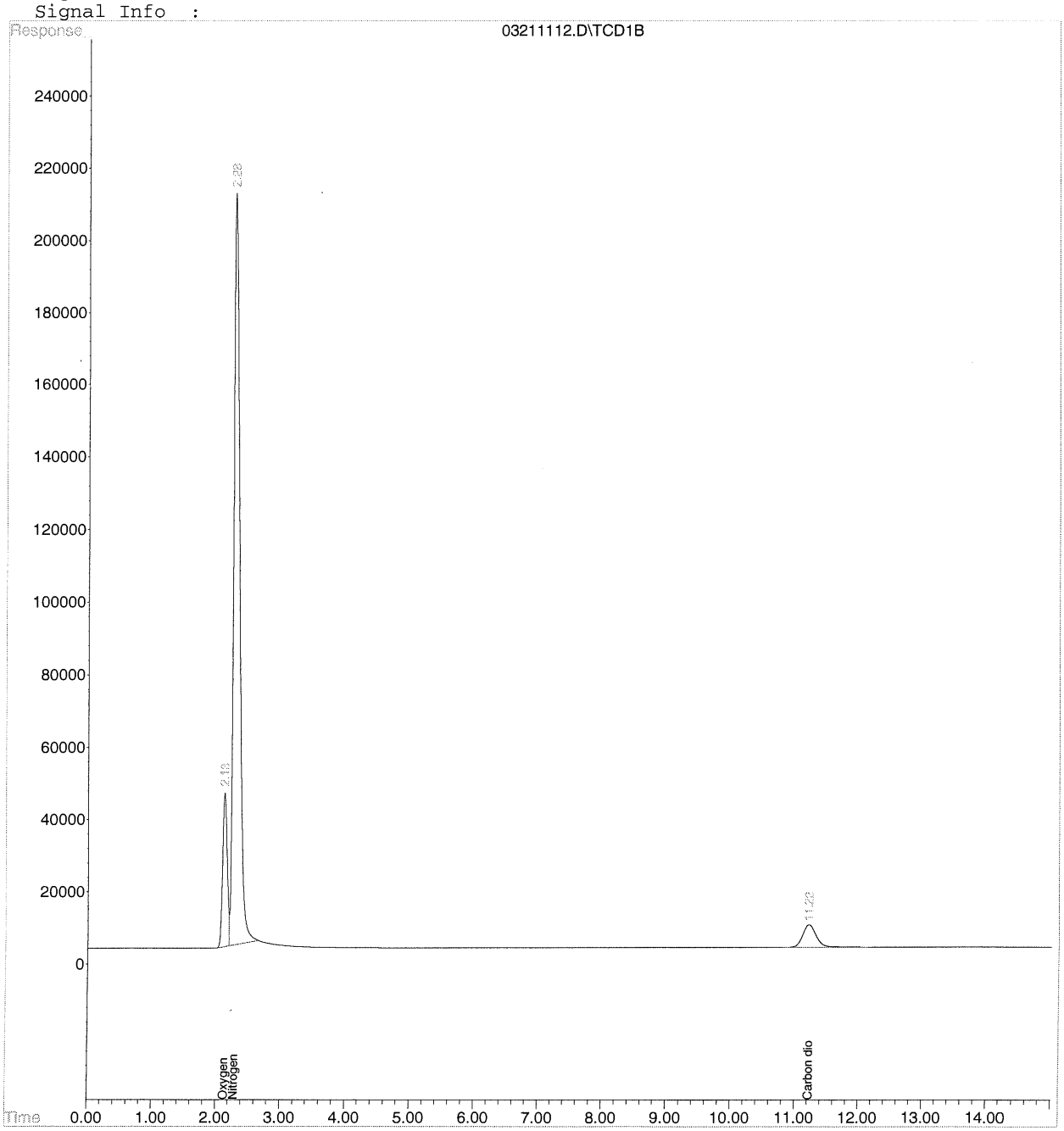
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211112.D Vial: 1
Acq On : 22 Mar 2011 6:20 am Operator:
Sample : 1103389-006a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:34 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211113.D Vial: 1
Acq On : 22 Mar 2011 6:39 am Operator:
Sample : 1103389-007a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2581850	16.517	%
2)	Nitrogen	2.28	13578704	78.035	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	214733	1.049	%

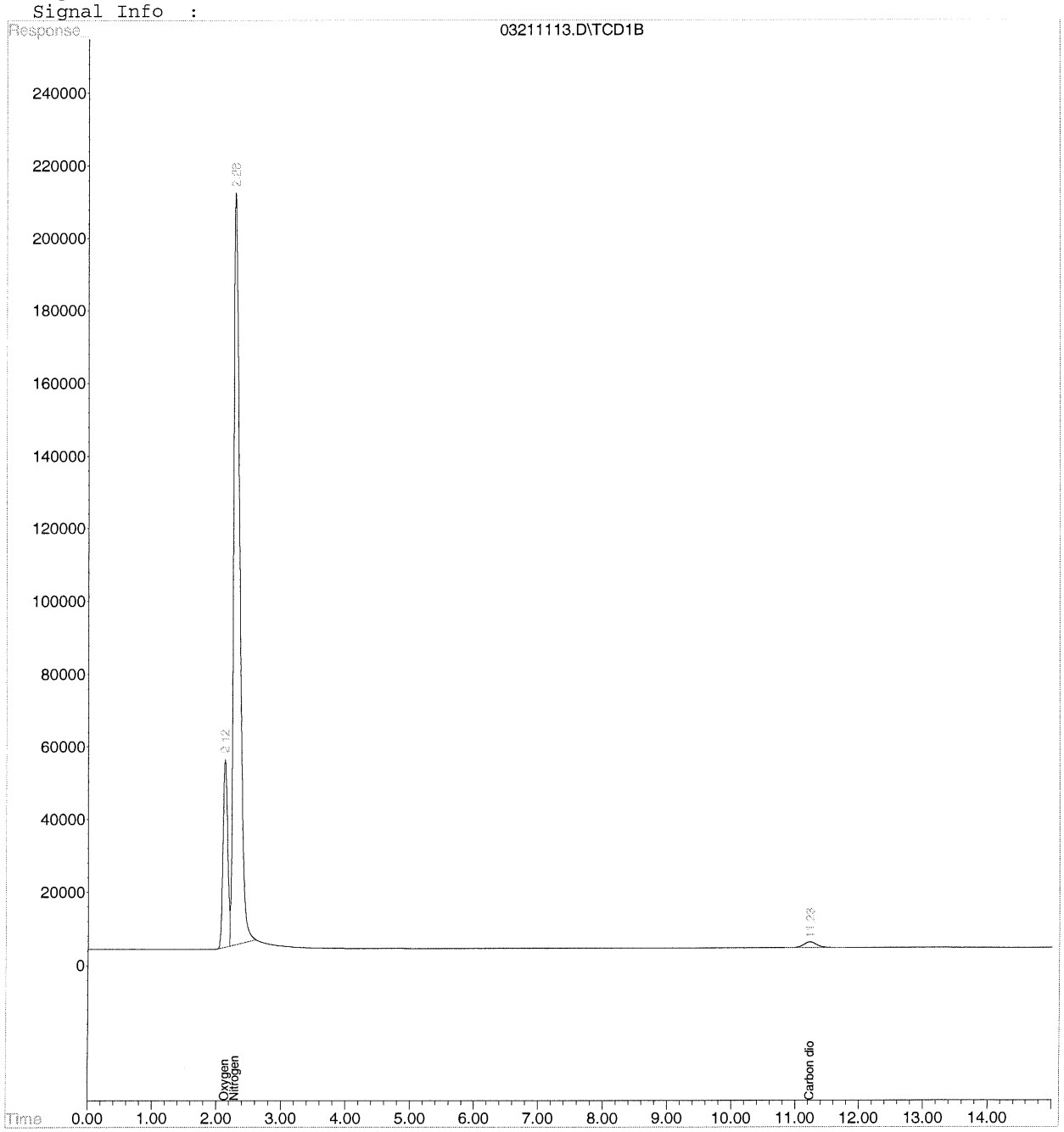
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211113.D Vial: 1
Acq On : 22 Mar 2011 6:39 am Operator:
Sample : 1103389-007a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211114.D Vial: 1
Acq On : 22 Mar 2011 6:59 am Operator:
Sample : 1103389-008a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

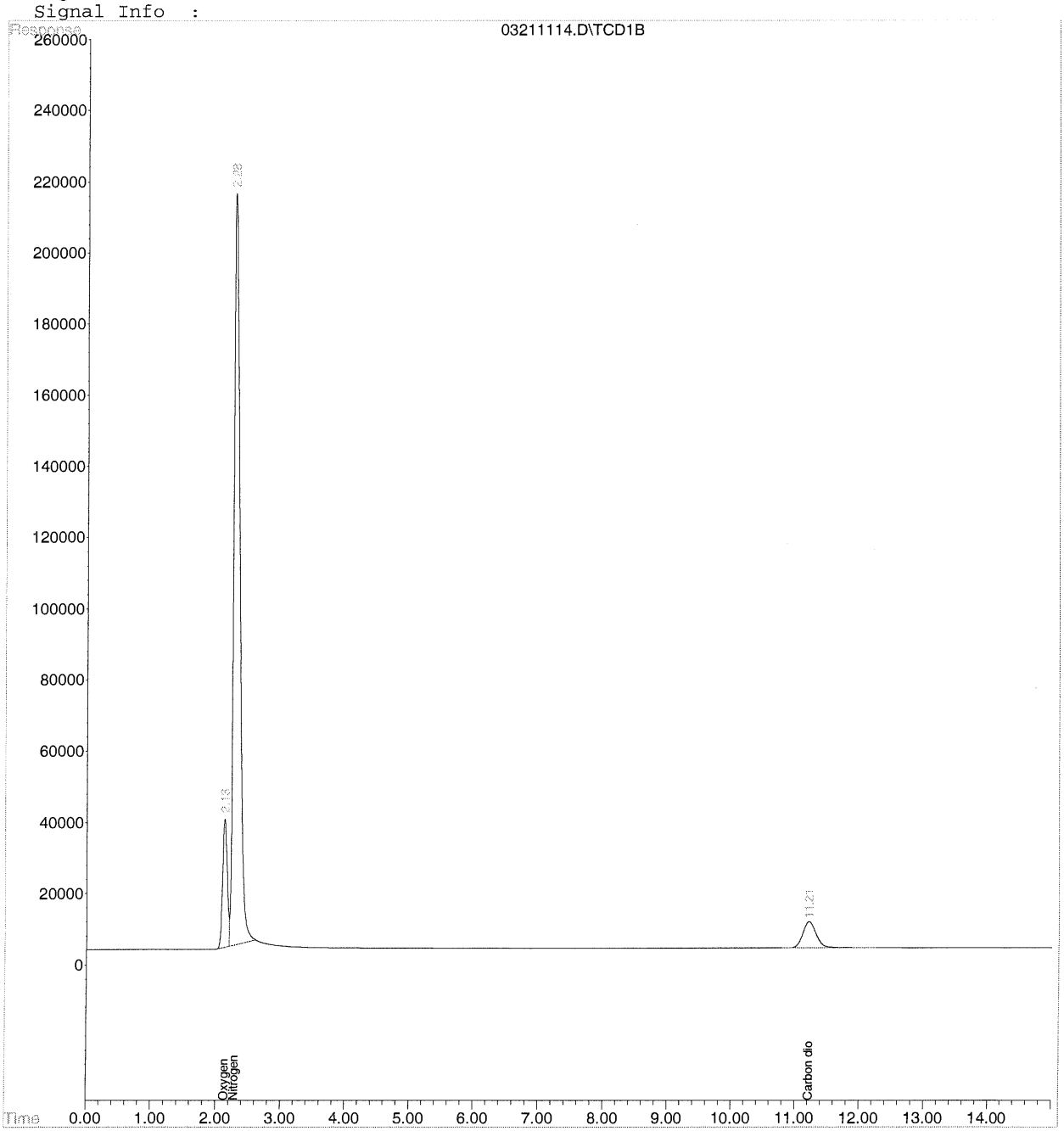
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1784571	11.417	%
2)	Nitrogen	2.28	13804945	79.335	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1057678	5.167	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211114.D Vial: 1
Acq On : 22 Mar 2011 6:59 am Operator:
Sample : 1103389-008a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211115.D Vial: 1
Acq On : 22 Mar 2011 7:18 am Operator:
Sample : 1103389-008adup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	1778693	11.379	%
2)	Nitrogen	2.28	13757834	79.064	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1051976	5.139	%

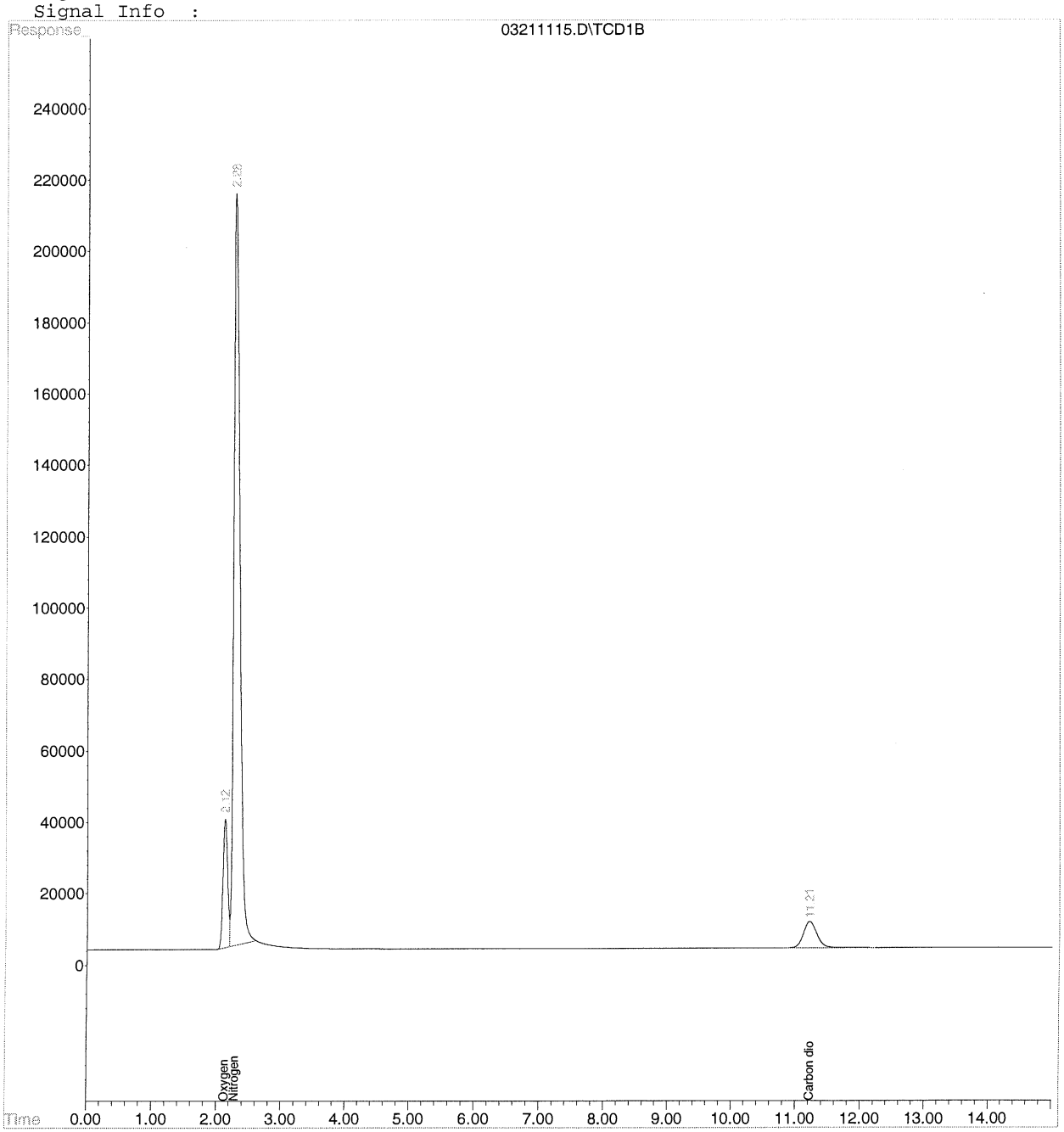
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211115.D Vial: 1
Acq On : 22 Mar 2011 7:18 am Operator:
Sample : 1103389-008adup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032111D\03211116.D Vial: 1
Acq On : 22 Mar 2011 8:05 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.082	-2.5	106	0.04
2	Nitrogen	1.390	1.235	11.2	108	0.04
3	Carbon Monoxide	0.140	0.118	15.7	103	0.04
4	Methane	0.090	0.078	13.3	107	0.02
5	Carbon dioxide	0.300	0.241	19.7	84	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032111D\03211116.D Vial: 1
Acq On : 22 Mar 2011 8:05 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:06:09 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211116.D Vial: 1
Acq On : 22 Mar 2011 8:05 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

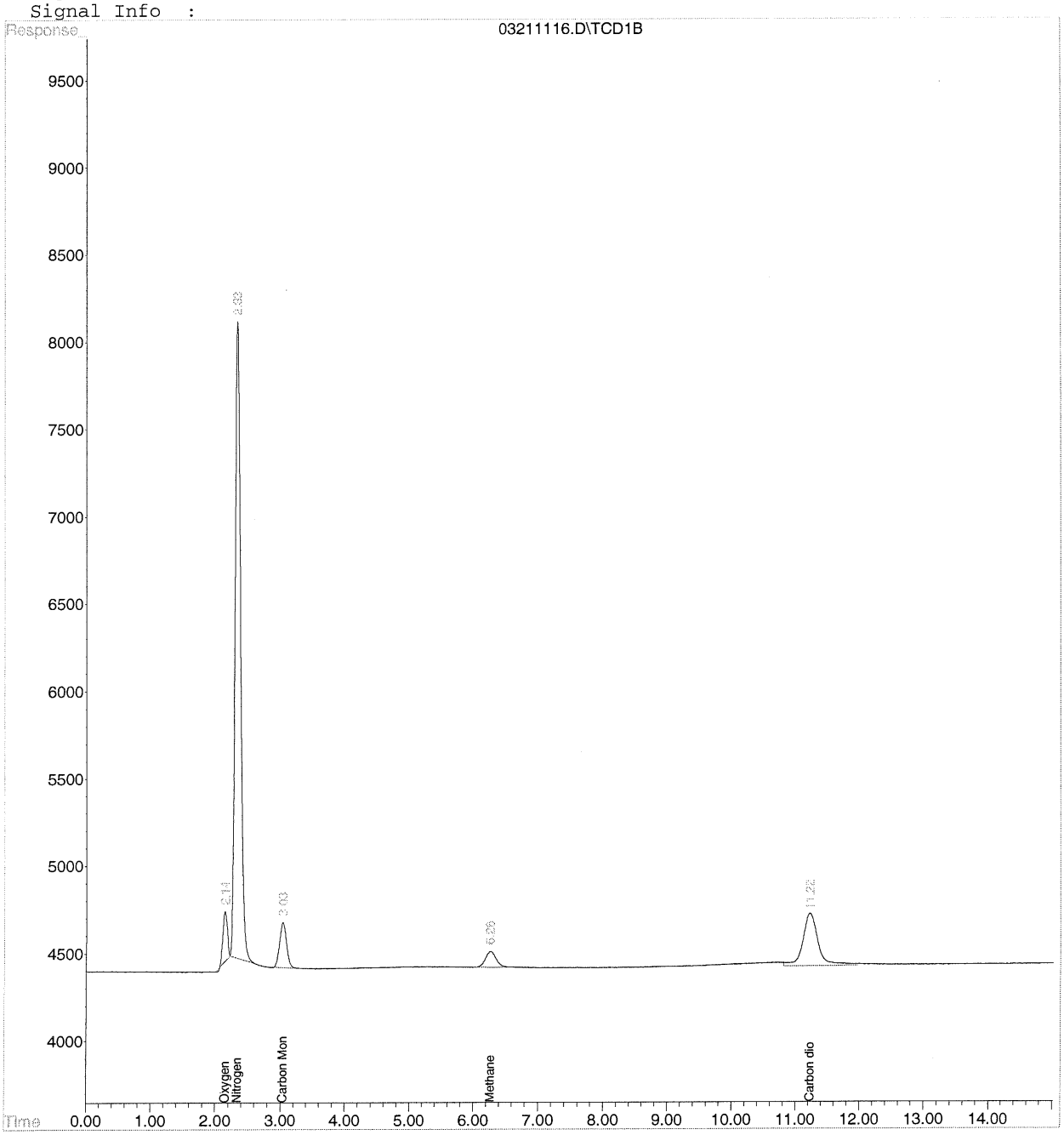
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	12770	0.082 %
2)	Nitrogen	2.33	214828	1.235 %
3)	Carbon Monoxide	3.03	19338	0.118 %
4)	Methane	6.27	10717	0.078 %
5)	Carbon dioxide	11.23	49287	0.241 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211116.D Vial: 1
Acq On : 22 Mar 2011 8:05 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 15:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032111D\03211117.D Vial: 1
Acq On : 22 Mar 2011 9:14 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.520	-0.8	0	0.04
2	Nitrogen	2.500	2.799	-12.0	0	0.04
3	Carbon Monoxide	2.500	2.626	-5.0	0	0.04
4	Methane	2.000	2.051	-2.6	0	0.02
5	Carbon dioxide	2.500	2.545	-1.8	0	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032111D\03211117.D Vial: 1
Acq On : 22 Mar 2011 9:14 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:06:28 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032111D\03211117.D Vial: 1
Acq On : 22 Mar 2011 9:14 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 23:34 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	393923	2.520 %
2)	Nitrogen	2.33	487019	2.799 %
3)	Carbon Monoxide	3.03	431723	2.626 %
4)	Methane	6.26	282429	2.051 %
5)	Carbon dioxide	11.22	521022	2.545 %

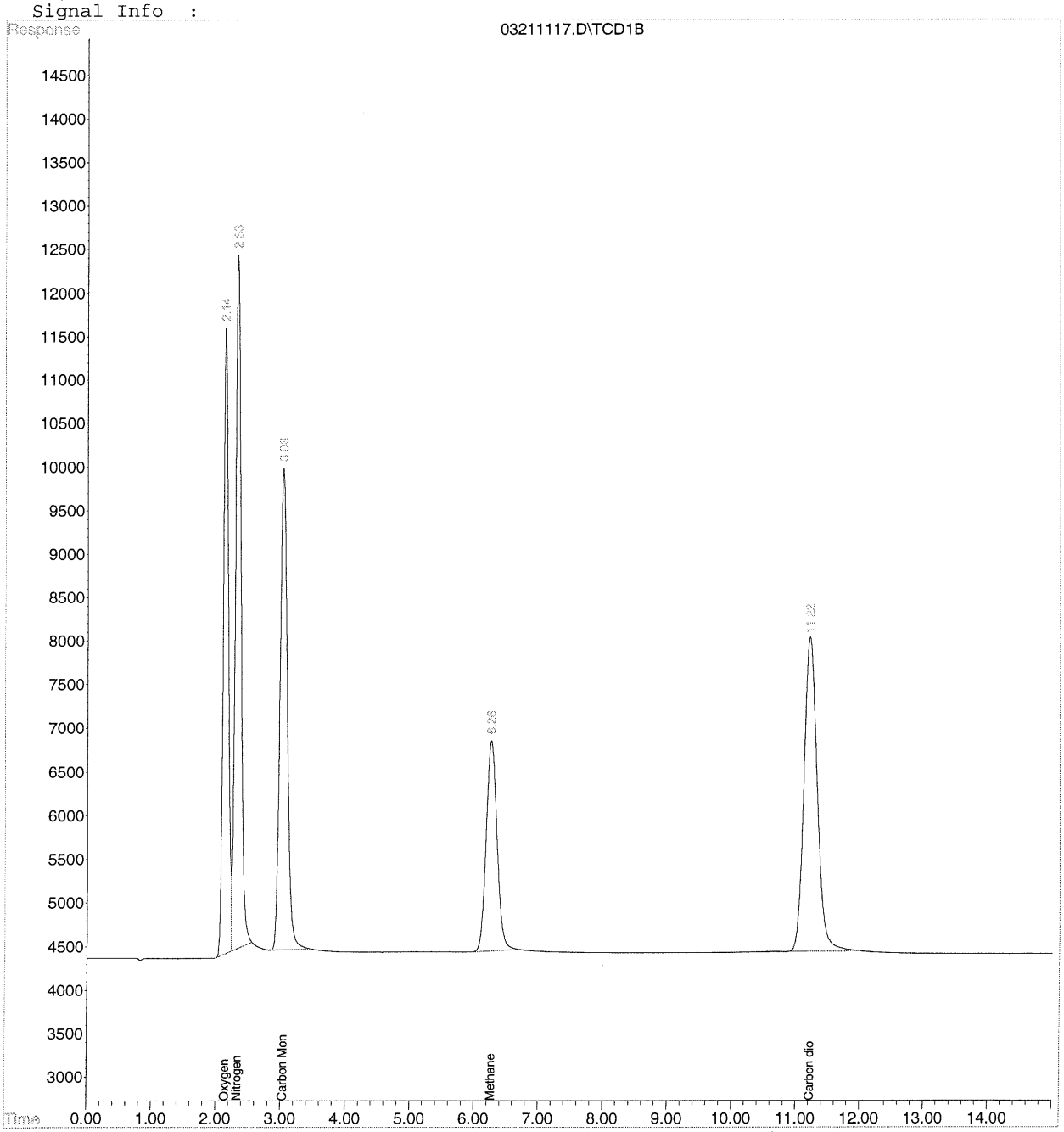
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032111D\03211117.D Vial: 1
Acq On : 22 Mar 2011 9:14 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 22 23:34 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\032211D

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03221101.D	1.	icb	ICB ASTM-D2504	22 Mar 2011 22:51
2	1	03221102.D	1.	ccv std 1-2 a	CCV ASTM-D2504	22 Mar 2011 23:16
3	1	03221103.D	1.	crql std 2% a	CRQL ASTM-D2504	23 Mar 2011 00:35
4	1	03221104.D	1.	1103389-009a	SAMP ASTM-D2504	23 Mar 2011 01:01
5	1	03221105.D	1.	1103389-010a	SAMP ASTM-D2504	23 Mar 2011 01:21
6	1	03221106.D	1.	1103389-011a	SAMP ASTM-D2504	23 Mar 2011 02:14
7	1	03221107.D	1.	1103389-012a	SAMP ASTM-D2504	23 Mar 2011 02:51
8	1	03221108.D	1.	1103389-013a	SAMP ASTM-D2504	23 Mar 2011 03:11
9	1	03221109.D	1.	1103389-014a	SAMP ASTM-D2504	23 Mar 2011 03:32
10	1	03221110.D	1.	1103389-015a	SAMP ASTM-D2504	23 Mar 2011 03:53
11	1	03221111.D	1.	1103389-016a	SAMP ASTM-D2504	23 Mar 2011 04:23
12	1	03221112.D	1.	1103389-017a	SAMP ASTM-D2504	23 Mar 2011 04:55
13	1	03221113.D	1.	1103389-018a	SAMP ASTM-D2504	23 Mar 2011 05:22
14	1	03221114.D	1.	1103389-018adup	SAMP ASTM-D2504	23 Mar 2011 05:49
15	1	03221115.D	1.	crql std 2% b	CRQL ASTM-D2504	23 Mar 2011 06:13
16	1	03221116.D	1.	ccv std 1-2 b	CCV ASTM-D2504	23 Mar 2011 07:42

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221101.D Vial: 1
Acq On : 22 Mar 2011 10:51 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:35 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

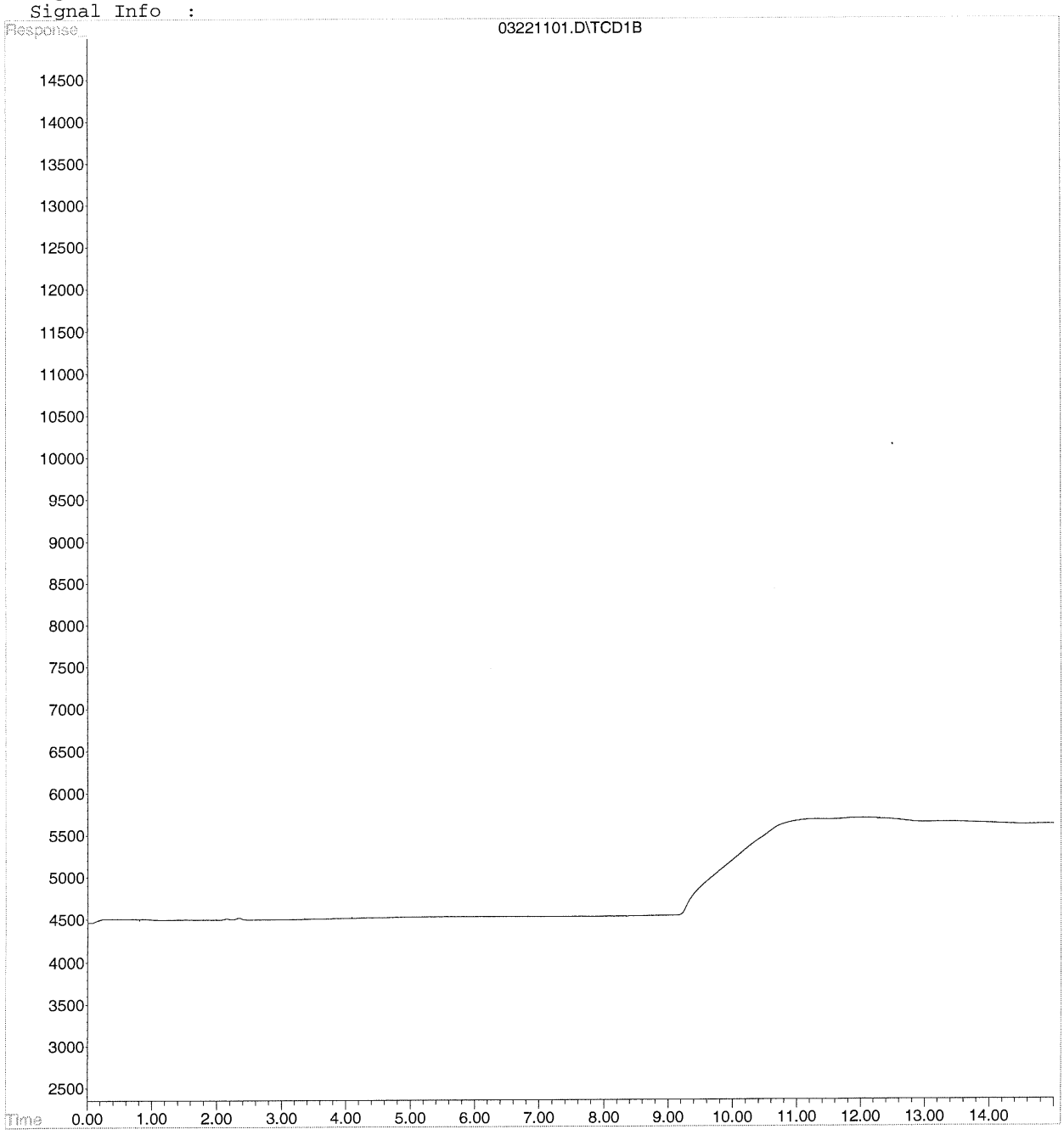
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221101.D Vial: 1
Acq On : 22 Mar 2011 10:51 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:35 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032211D\03221102.D Vial: 1
Acq On : 22 Mar 2011 11:16 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.596	-3.8	0	0.04
2	Nitrogen	2.500	2.870	-14.8	0	0.04
3	Carbon Monoxide	2.500	2.724	-9.0	0	0.04
4	Methane	2.000	2.102	-5.1	0	0.02
5	Carbon dioxide	2.500	2.468	1.3	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032211D\03221102.D Vial: 1
Acq On : 22 Mar 2011 11:16 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:07:05 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221102.D Vial: 1
Acq On : 22 Mar 2011 11:16 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 23:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

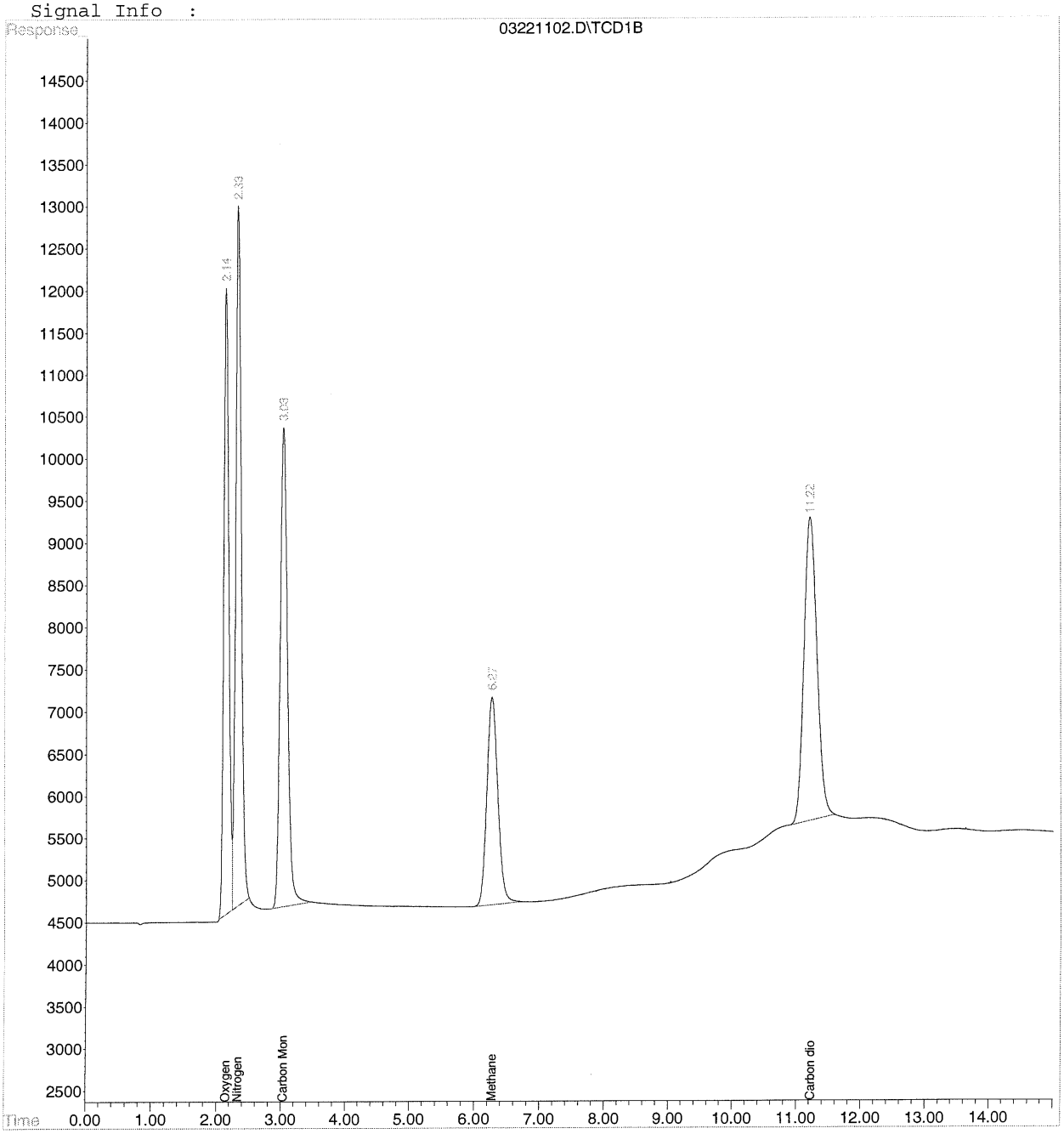
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	405777	2.596 %
2)	Nitrogen	2.33	499342	2.870 %
3)	Carbon Monoxide	3.03	447921	2.724 %
4)	Methane	6.27	289406	2.102 %
5)	Carbon dioxide	11.22	505118	2.468 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221102.D Vial: 1
Acq On : 22 Mar 2011 11:16 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 22 23:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032211D\03221103.D Vial: 1
Acq On : 23 Mar 2011 12:35 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.072	10.0	94	0.04
2	Nitrogen	1.390	1.120	19.4	98	0.04
3	Carbon Monoxide	0.140	0.113	19.3	99	0.04
4	Methane	0.090	0.076	15.6	105	0.02
5	Carbon dioxide	0.300	0.266	11.3	93	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032211D\03221103.D Vial: 1
Acq On : 23 Mar 2011 12:35 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:07:24 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221103.D Vial: 1
Acq On : 23 Mar 2011 12:35 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 23 0:56 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

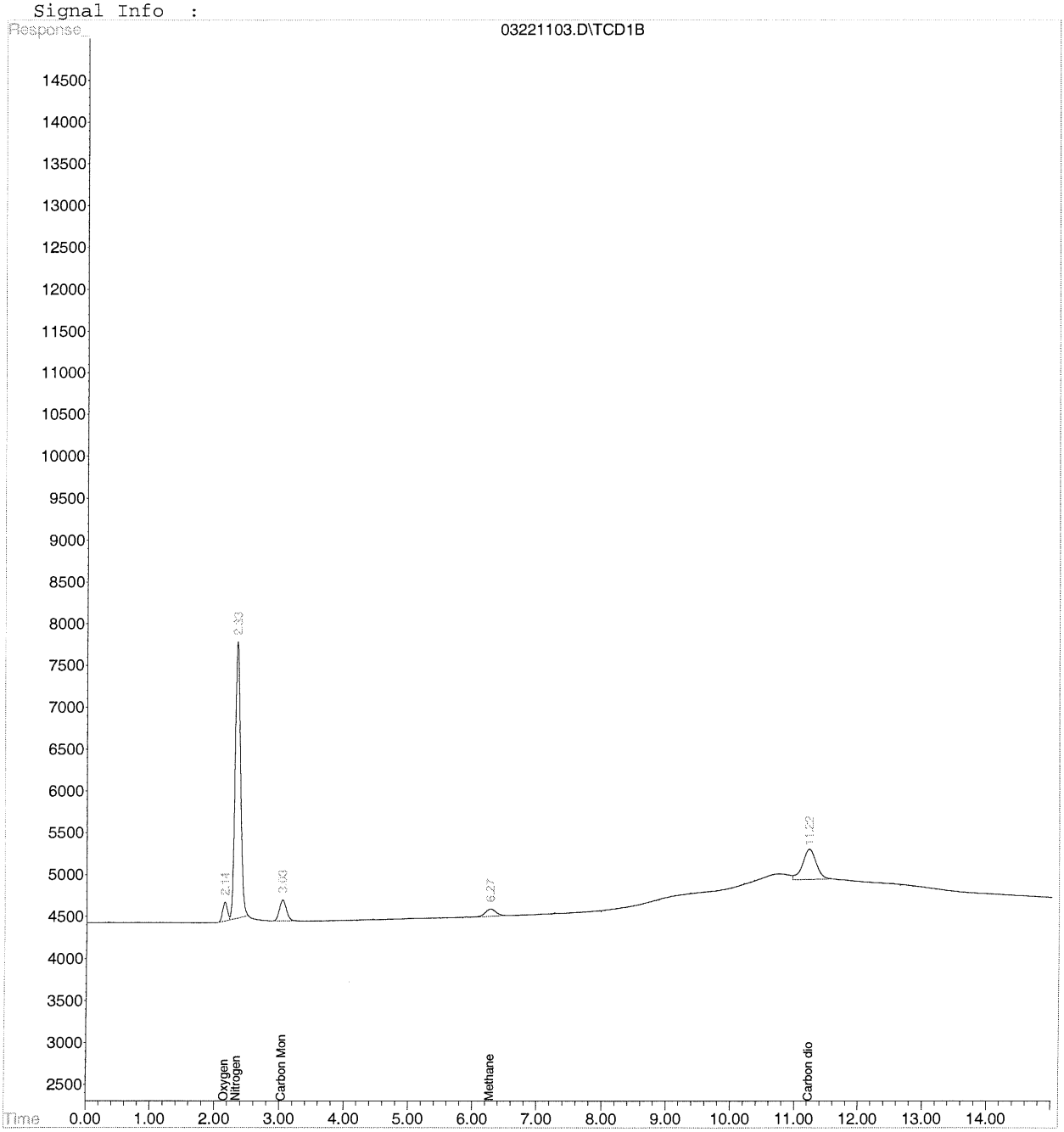
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	11317	0.072 %
2)	Nitrogen	2.33	194825	1.120 %
3)	Carbon Monoxide	3.03	18649	0.113 %
4)	Methane	6.27	10498	0.076 %
5)	Carbon dioxide	11.22	54435	0.266 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221103.D Vial: 1
Acq On : 23 Mar 2011 12:35 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 23 0:56 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221104.D Vial: 1
Acq On : 23 Mar 2011 1:01 am Operator:
Sample : 1103389-009a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1273150	8.145	%
2)	Nitrogen	2.28	14374516	82.608	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1403923	6.858	%

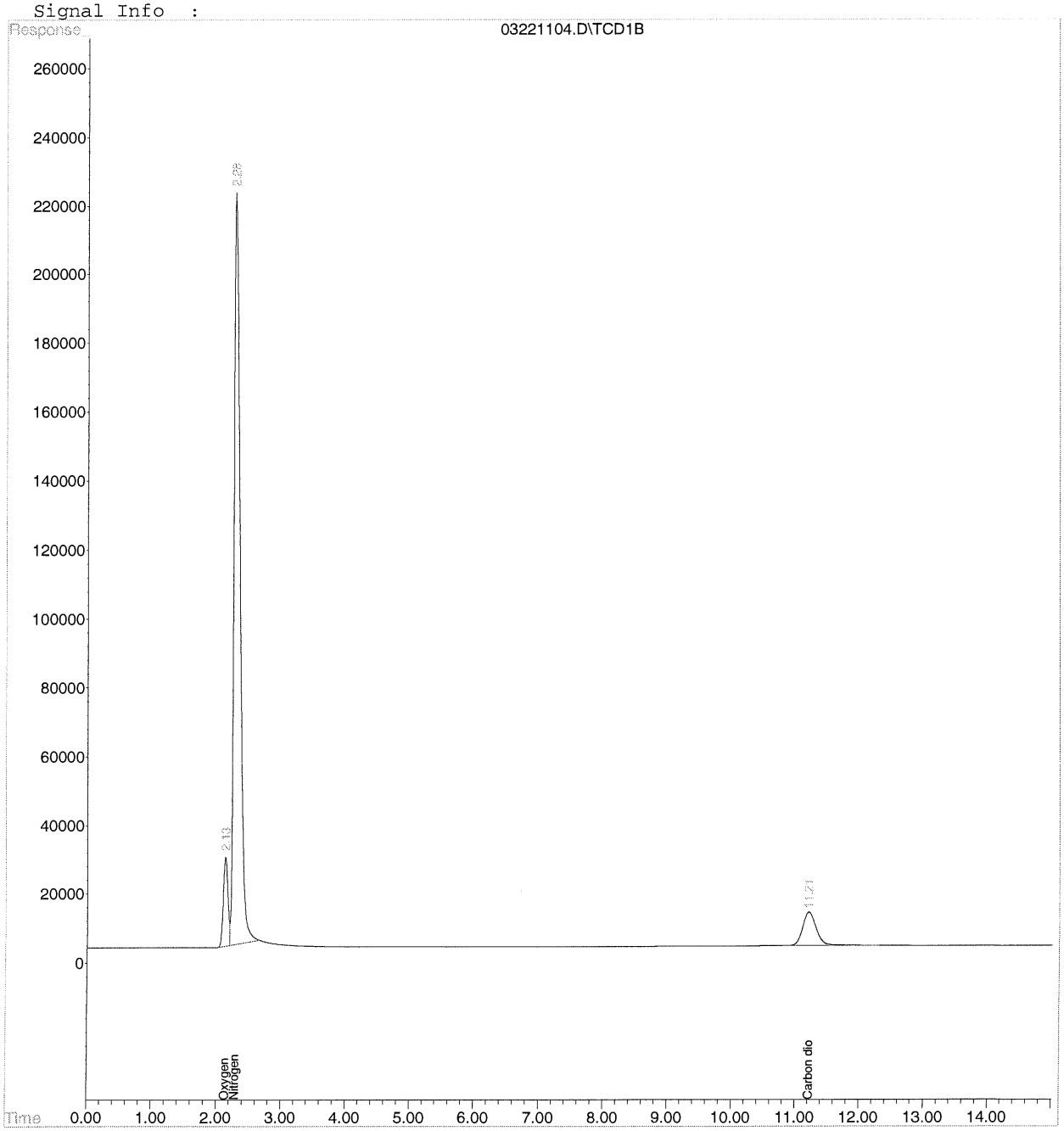
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221104.D Vial: 1
Acq On : 23 Mar 2011 1:01 am Operator:
Sample : 1103389-009a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221105.D Vial: 1
Acq On : 23 Mar 2011 1:21 am Operator:
Sample : 1103389-010a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.14	927295	5.932	%
2)	Nitrogen	2.29	14475512	83.189	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1480444	7.232	%

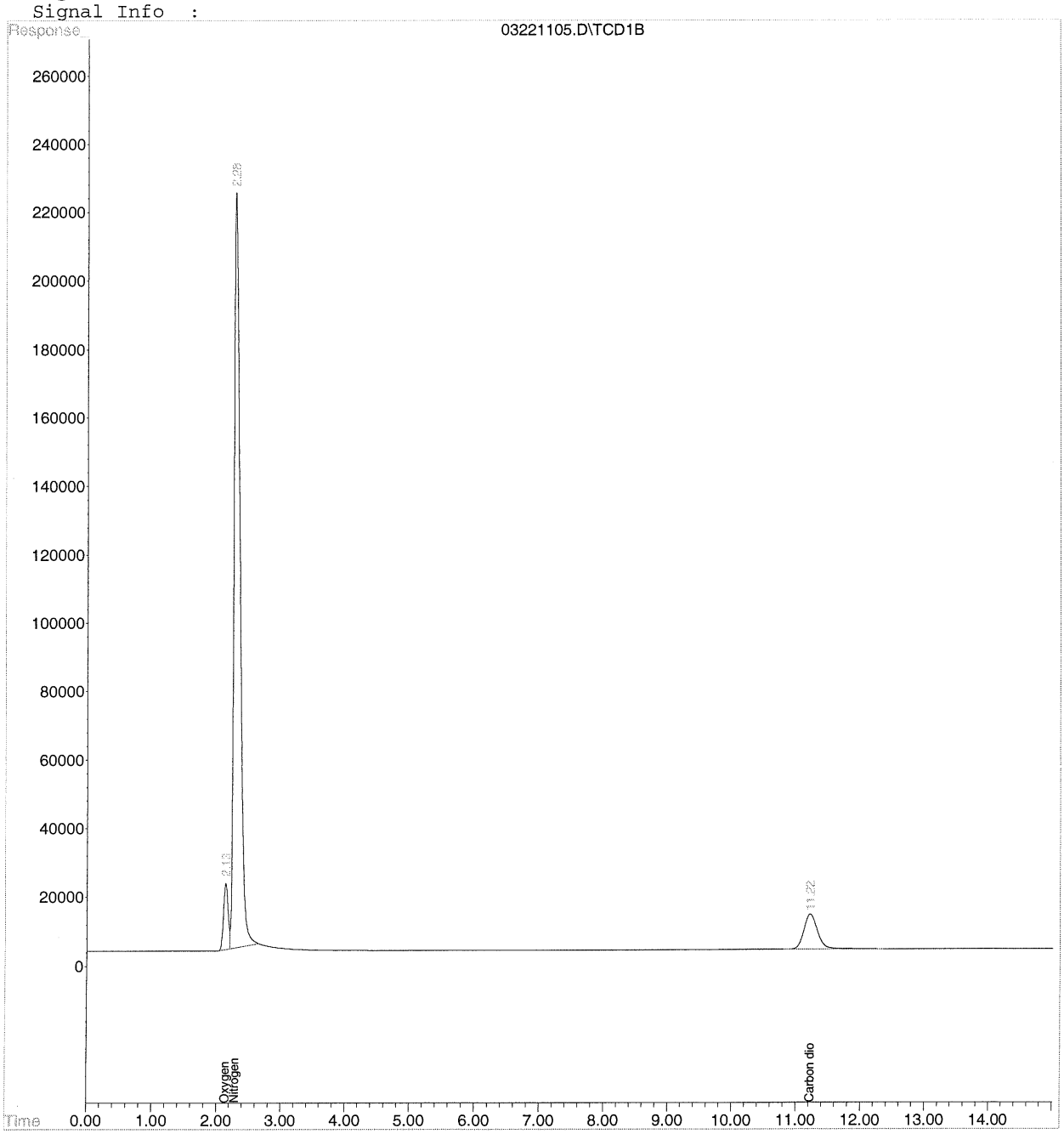
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221105.D Vial: 1
Acq On : 23 Mar 2011 1:21 am Operator:
Sample : 1103389-010a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221106.D Vial: 1
Acq On : 23 Mar 2011 2:14 am Operator:
Sample : 1103389-011a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3002727	19.210	%
2)	Nitrogen	2.28	13606222	78.193	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	158937	0.776	%

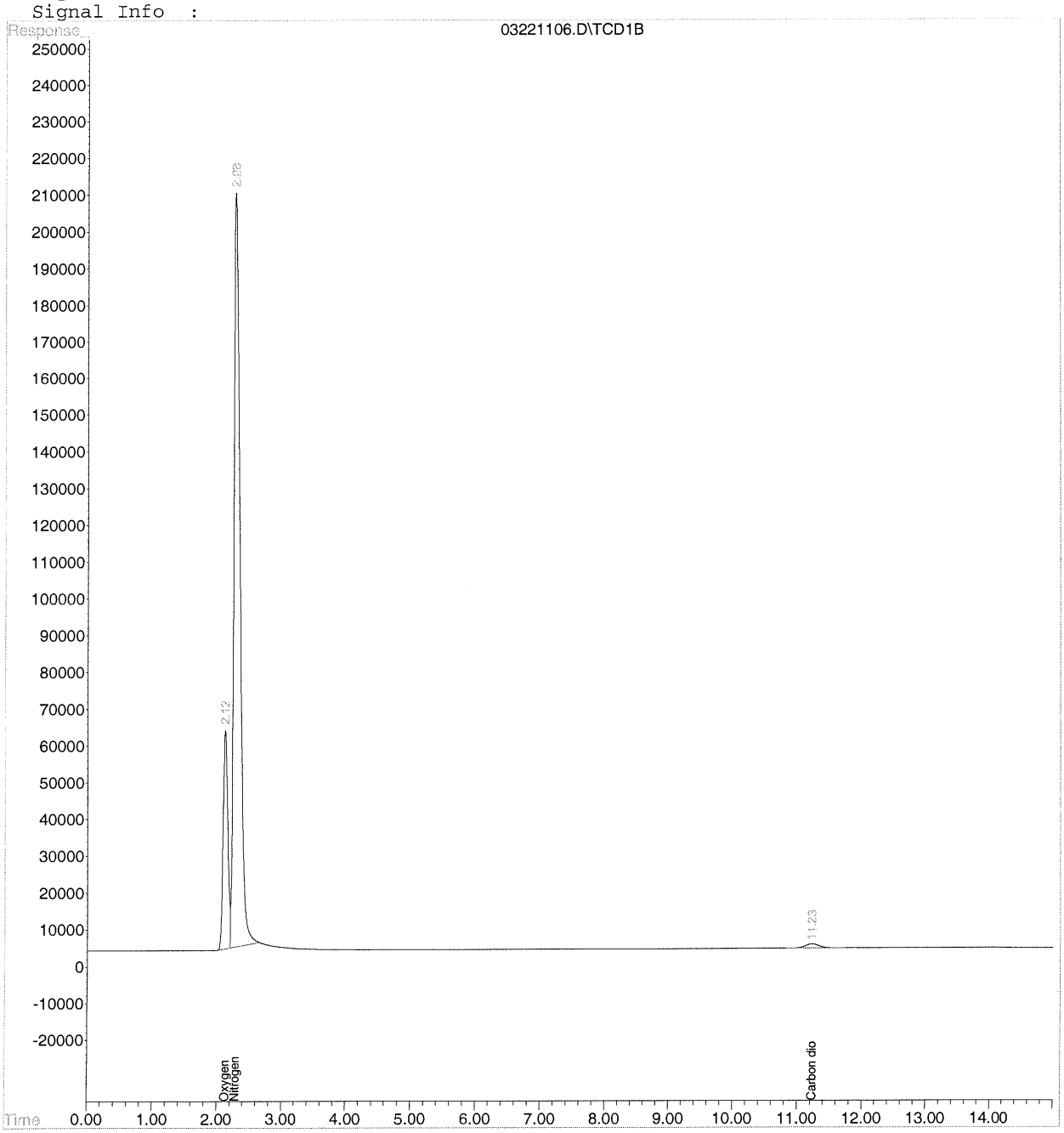
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221106.D Vial: 1
Acq On : 23 Mar 2011 2:14 am Operator:
Sample : 1103389-011a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221107.D Vial: 1
Acq On : 23 Mar 2011 2:51 am Operator:
Sample : 1103389-012a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	3041232	19.456	%
2)	Nitrogen	2.29	13595724	78.133	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	95548	0.467	%

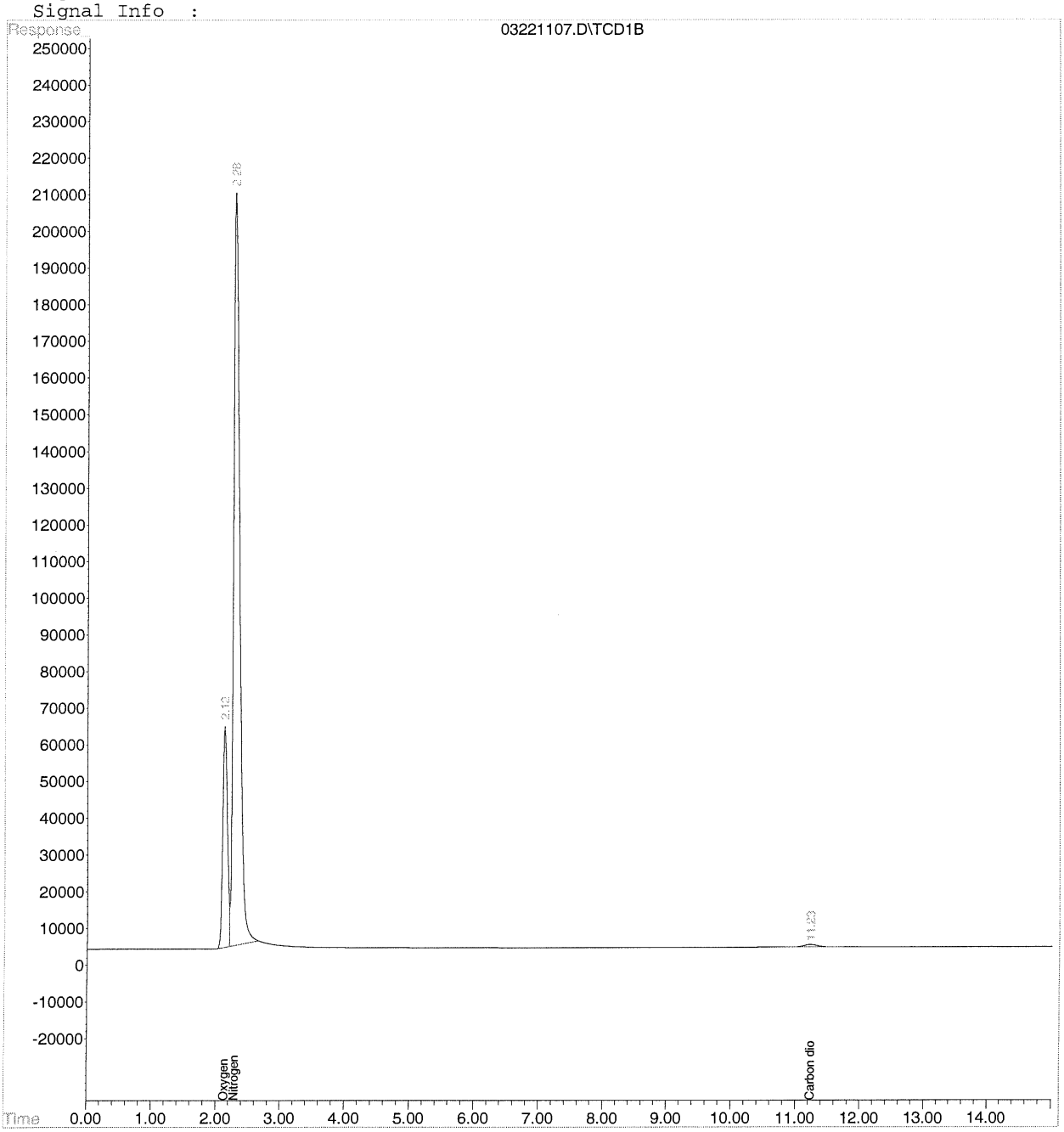
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221107.D Vial: 1
Acq On : 23 Mar 2011 2:51 am Operator:
Sample : 1103389-012a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221108.D Vial: 1
Acq On : 23 Mar 2011 3:11 am Operator:
Sample : 1103389-013a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2323924	14.867	%
2)	Nitrogen	2.28	13764587	79.103	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	649587	3.173	%

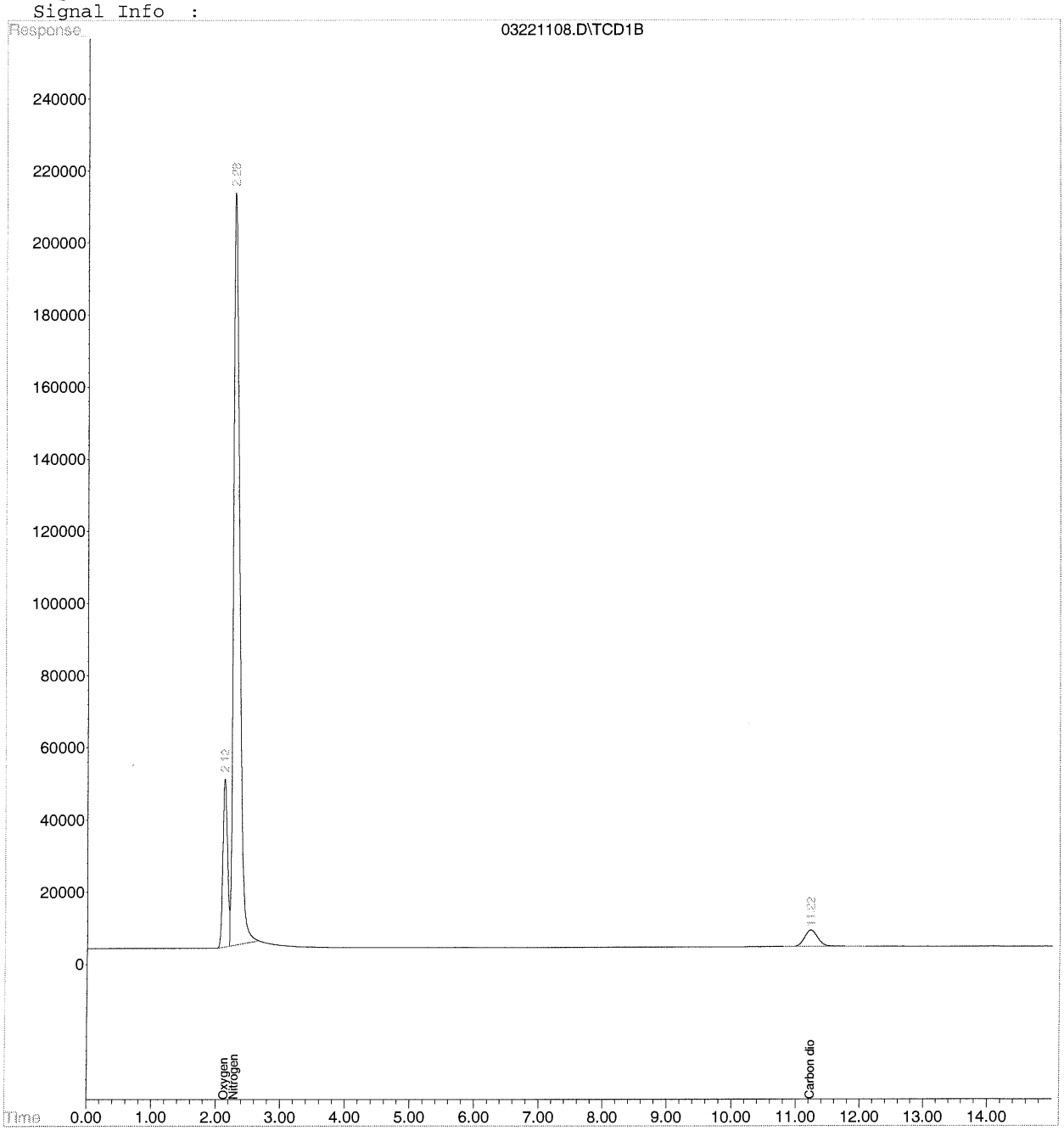
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221108.D Vial: 1
Acq On : 23 Mar 2011 3:11 am Operator:
Sample : 1103389-013a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221109.D Vial: 1
Acq On : 23 Mar 2011 3:32 am Operator:
Sample : 1103389-014a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1819994	11.643	%
2)	Nitrogen	2.28	13968483	80.275	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1023216	4.999	%

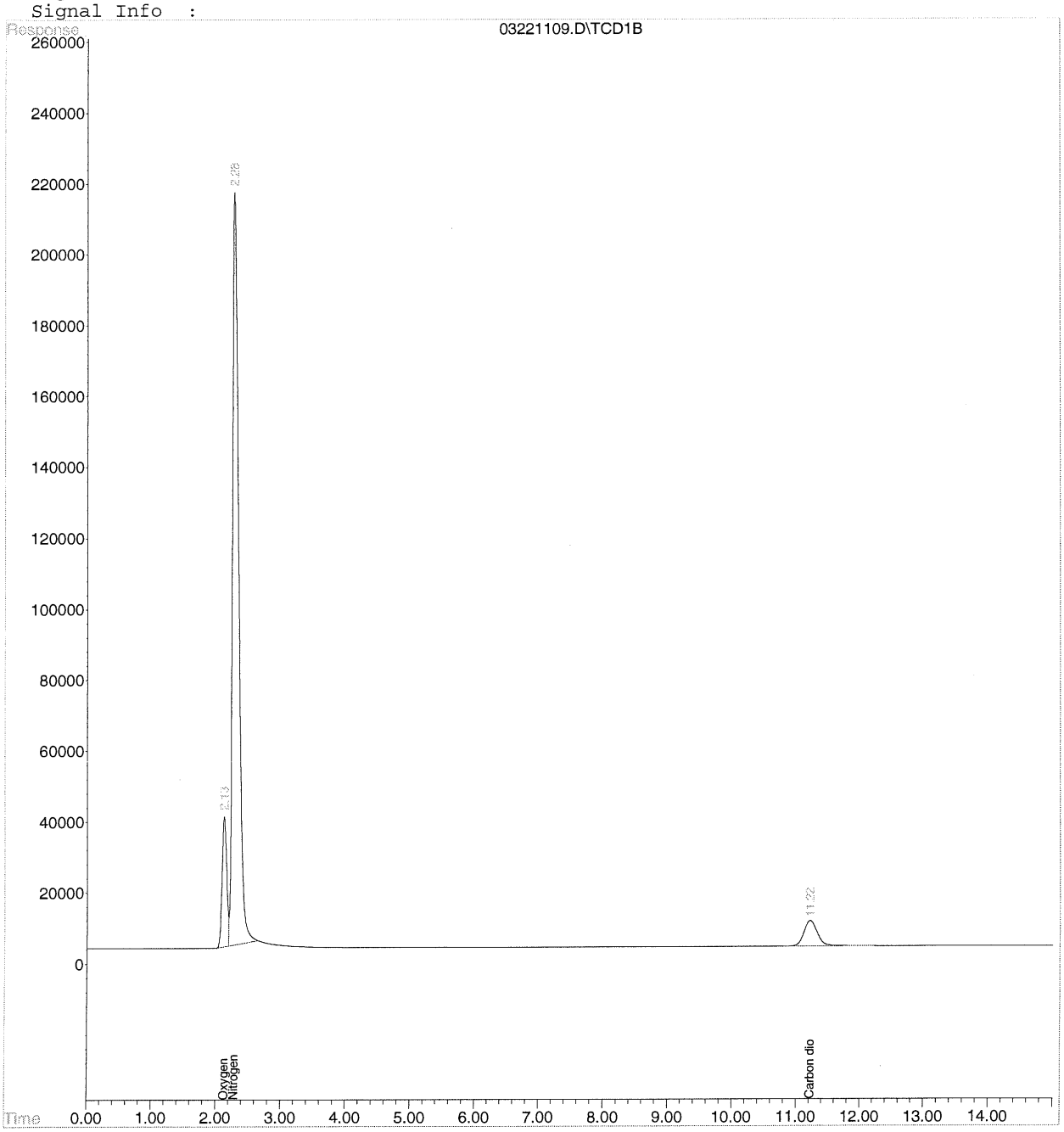
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221109.D Vial: 1
Acq On : 23 Mar 2011 3:32 am Operator:
Sample : 1103389-014a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221110.D Vial: 1
Acq On : 23 Mar 2011 3:53 am Operator:
Sample : 1103389-015a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3043370	19.470	%
2)	Nitrogen	2.28	13428201	77.170	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	100736	0.492	%

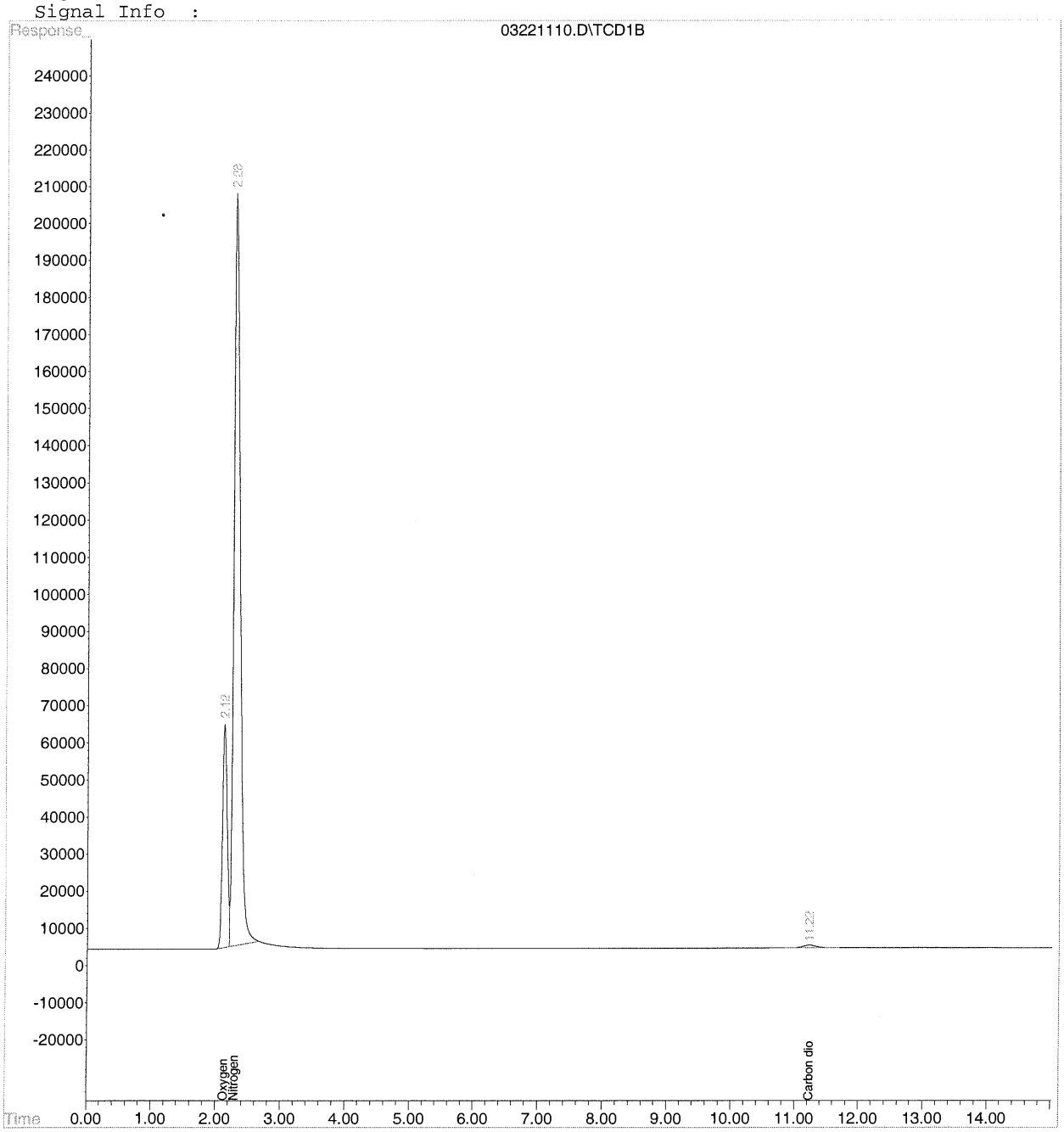
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221110.D Vial: 1
Acq On : 23 Mar 2011 3:53 am Operator:
Sample : 1103389-015a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221111.D Vial: 1
Acq On : 23 Mar 2011 4:23 am Operator:
Sample : 1103389-016a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3027235	19.367	%
2)	Nitrogen	2.28	13535573	77.787	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	127582	0.623	%

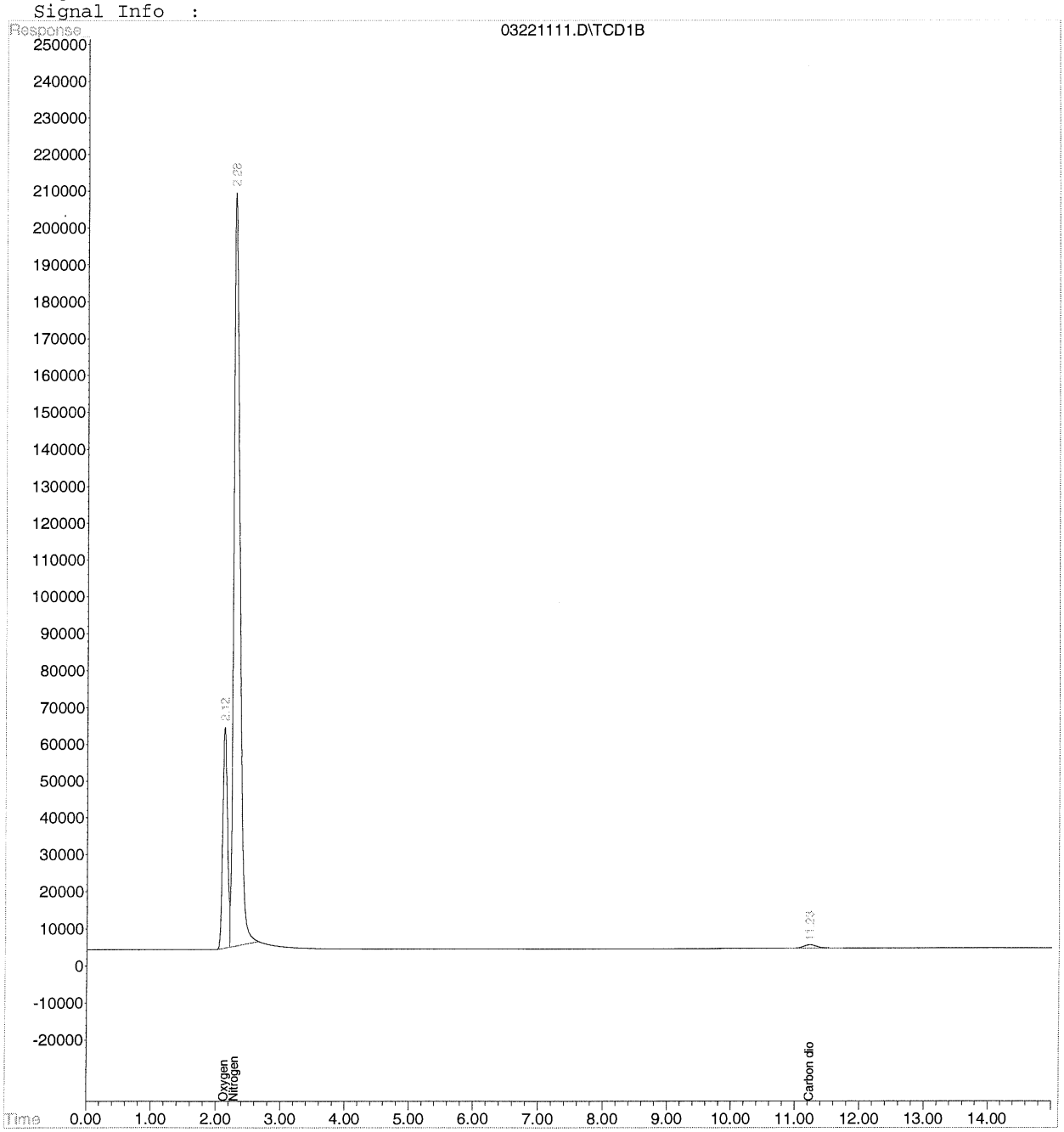
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221111.D Vial: 1
Acq On : 23 Mar 2011 4:23 am Operator:
Sample : 1103389-016a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221112.D Vial: 1
Acq On : 23 Mar 2011 4:55 am Operator:
Sample : 1103389-017a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2755605	17.629	%
2)	Nitrogen	2.29	13862625	79.666	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	95603	0.467	%

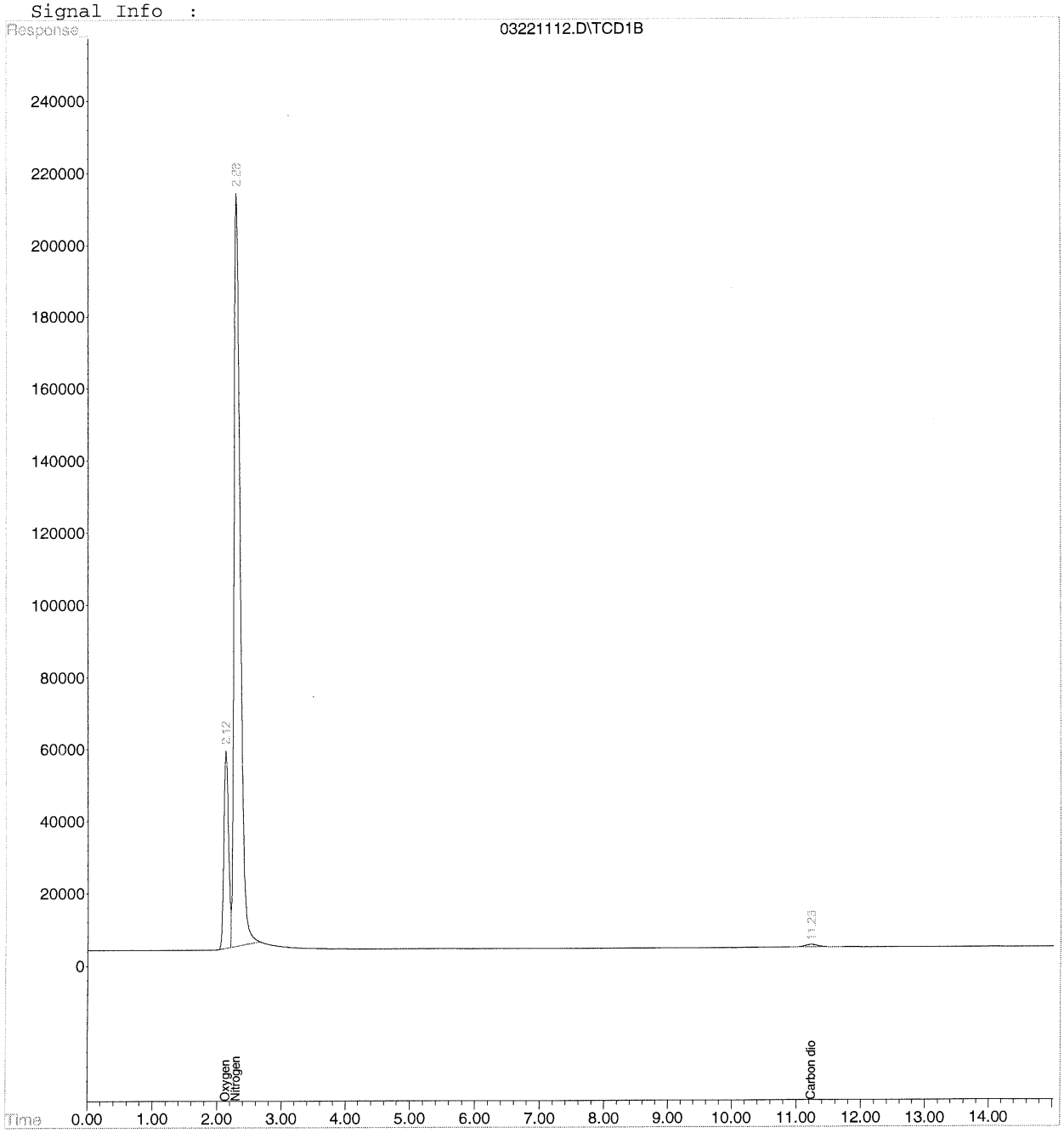
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221112.D Vial: 1
Acq On : 23 Mar 2011 4:55 am Operator:
Sample : 1103389-017a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221113.D Vial: 1
Acq On : 23 Mar 2011 5:22 am Operator:
Sample : 1103389-018a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2122316	13.577	%
2)	Nitrogen	2.28	13920753	80.000	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	815211	3.982	%

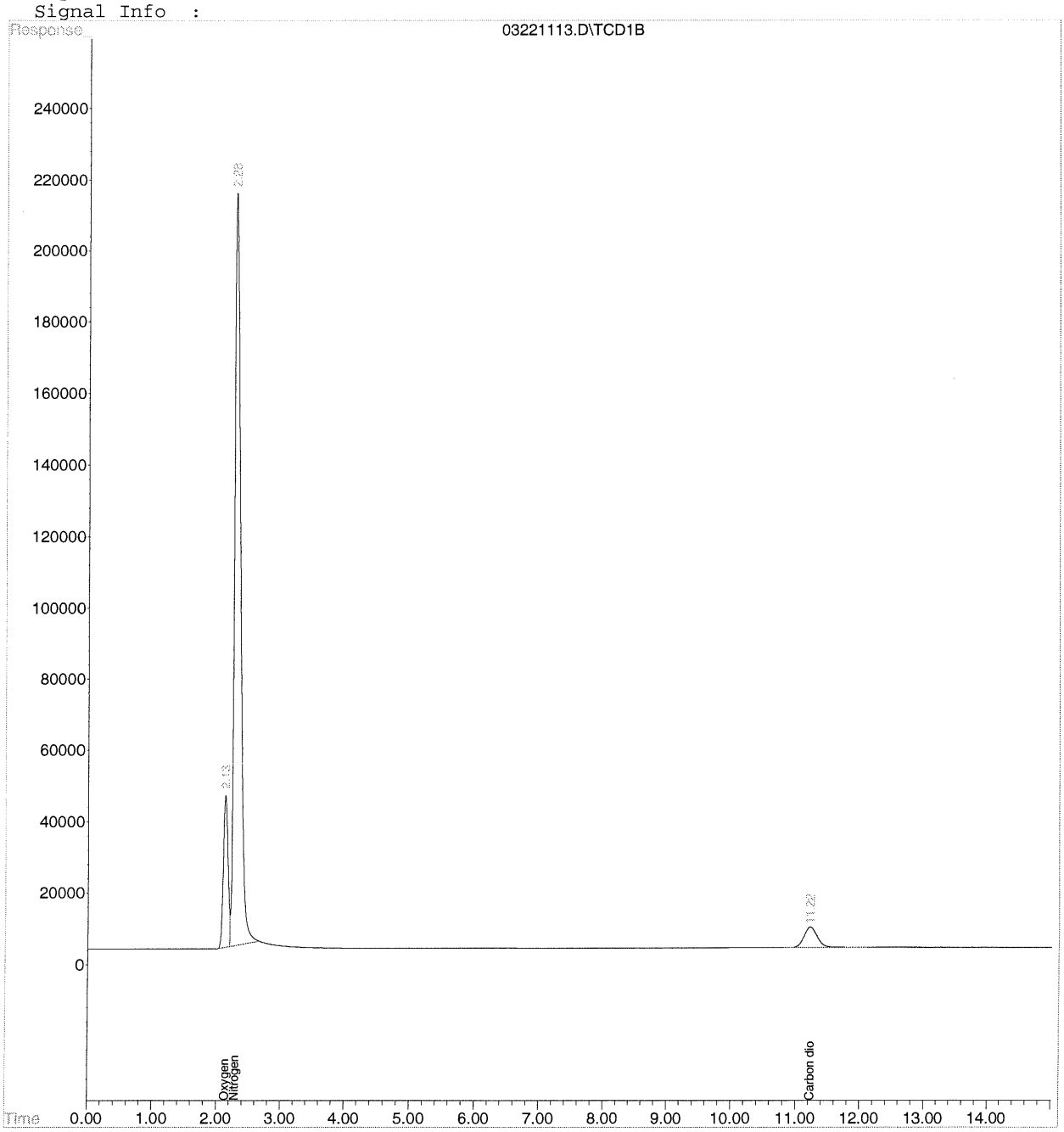
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221113.D Vial: 1
Acq On : 23 Mar 2011 5:22 am Operator:
Sample : 1103389-018a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221114.D Vial: 1
Acq On : 23 Mar 2011 5:49 am Operator:
Sample : 1103389-018adup Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2120461	13.566	%
2)	Nitrogen	2.28	13907802	79.926	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	812402	3.969	%

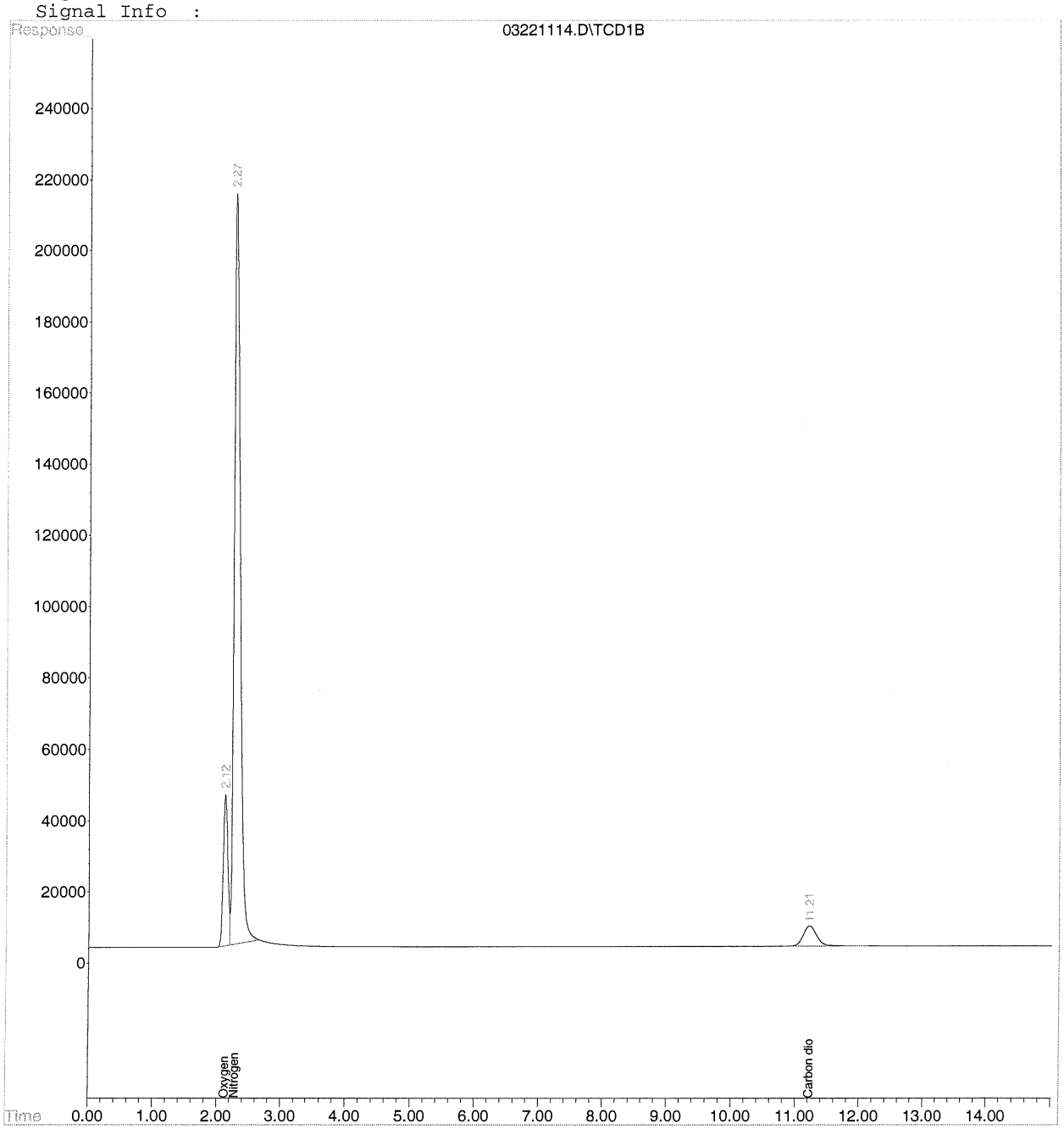
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221114.D Vial: 1
Acq On : 23 Mar 2011 5:49 am Operator:
Sample : 1103389-018adup Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032211D\03221115.D Vial: 1
Acq On : 23 Mar 2011 6:13 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.082	-2.5	107	0.04
2	Nitrogen	1.390	1.657	-19.2	144	0.04
3	Carbon Monoxide	0.140	0.167	-19.3	146	0.04
4	Methane	0.090	0.104	-15.6	143	0.02
5	Carbon dioxide	0.300	0.350	-16.7	123	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032211D\03221115.D Vial: 1
Acq On : 23 Mar 2011 6:13 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:08:43 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221115.D Vial: 1
Acq On : 23 Mar 2011 6:13 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 23 6:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	12879	0.082 %
2)	Nitrogen	2.33	288289	1.657 %
3)	Carbon Monoxide	3.03	27423	0.167 %
4)	Methane	6.27	14339	0.104 %
5)	Carbon dioxide	11.23	71551	0.350 %

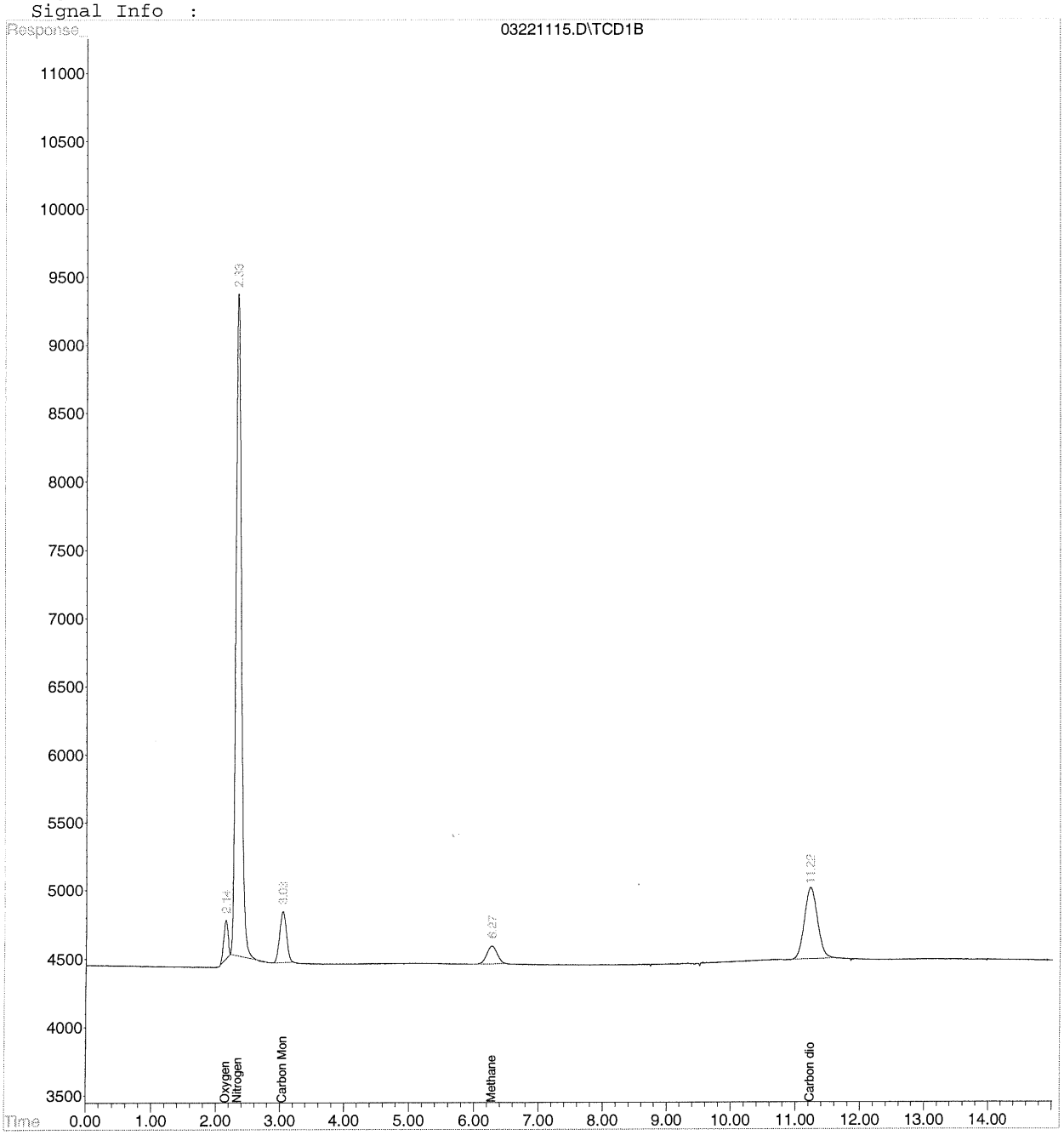
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221115.D Vial: 1
Acq On : 23 Mar 2011 6:13 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 23 6:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032211D\03221116.D Vial: 1
Acq On : 23 Mar 2011 7:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.482	0.7	0	0.04
2	Nitrogen	2.500	2.791	-11.6	0	0.04
3	Carbon Monoxide	2.500	2.598	-3.9	0	0.04
4	Methane	2.000	2.018	-0.9	0	0.02
5	Carbon dioxide	2.500	2.483	0.7	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032211D\03221116.D Vial: 1
Acq On : 23 Mar 2011 7:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:09:03 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032211D\03221116.D Vial: 1
Acq On : 23 Mar 2011 7:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 23 8:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	388016	2.482 %
2)	Nitrogen	2.33	485741	2.791 %
3)	Carbon Monoxide	3.03	427235	2.598 %
4)	Methane	6.27	277859	2.018 %
5)	Carbon dioxide	11.23	508305	2.483 %

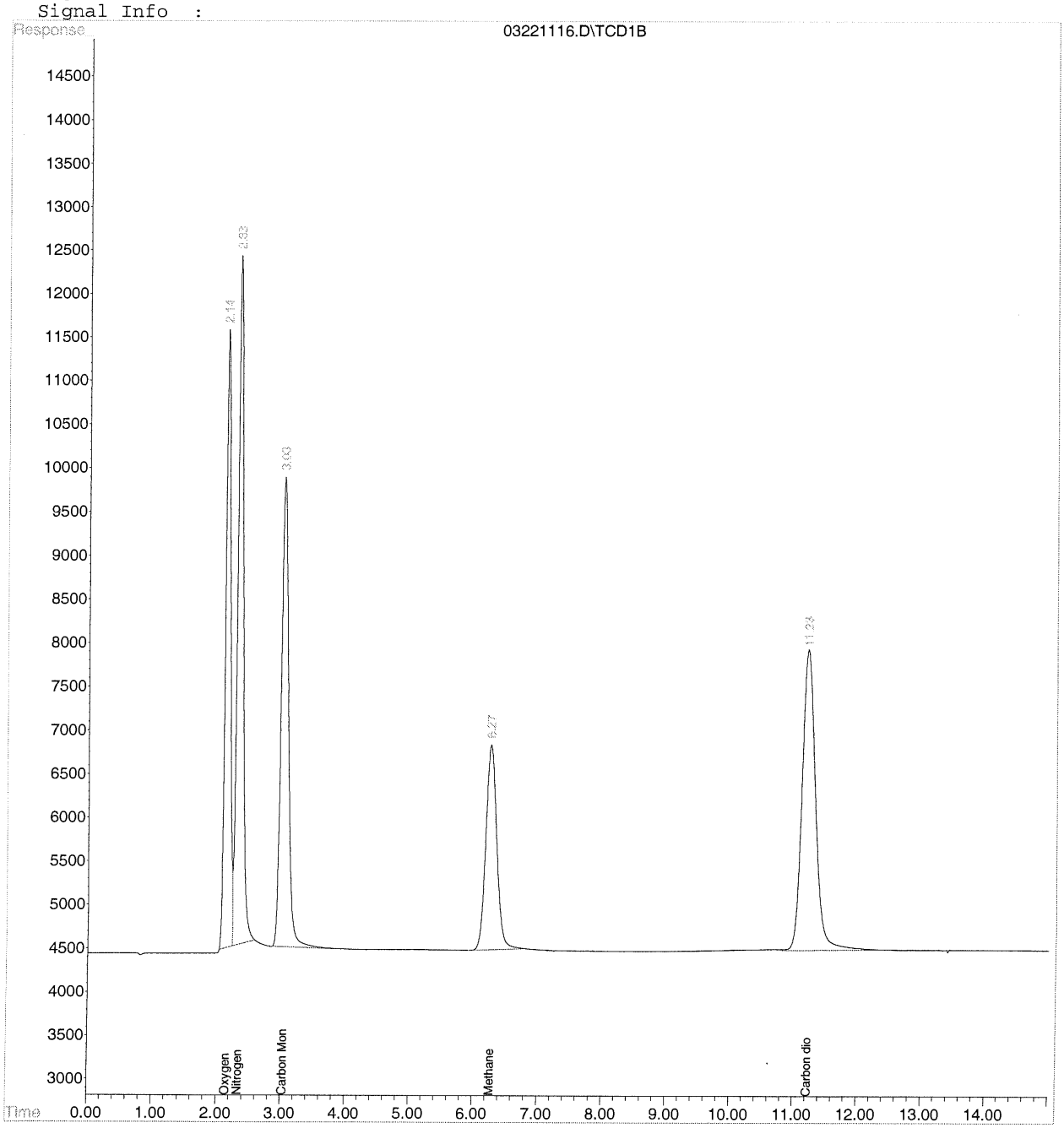
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032211D\03221116.D Vial: 1
Acq On : 23 Mar 2011 7:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 23 8:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\032311D

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03231101.D	1.	icb	ICB ASTM-D2504	23 Mar 2011 22:04
2	1	03231102.D	1.	crql std 2% a	CRQL ASTM-D2504	23 Mar 2011 22:33
3	1	03231103.D	1.	ccv std 1-2 a	CCV ASTM-D2504	23 Mar 2011 22:55
4	1	03231104.D	1.	lcs	LCS ASTM-D2504	23 Mar 2011 23:22
5	1	03231105.D	1.	lcsd	LCSD ASTM-D2504	23 Mar 2011 23:56
6	1	03231106.D	1.	mb	MBLK ASTM-D2504	24 Mar 2011 00:17
7	1	03231107.D	1.	1103389-019a	SAMP ASTM-D2504	24 Mar 2011 00:42
8	1	03231108.D	1.	1103389-020a	SAMP ASTM-D2504	24 Mar 2011 01:04
9	1	03231109.D	1.	1103389-021a	SAMP ASTM-D2504	24 Mar 2011 01:28
10	1	03231110.D	1.	1103389-022a	SAMP ASTM-D2504	24 Mar 2011 01:53
11	1	03231111.D	1.	1103389-023a	SAMP ASTM-D2504	24 Mar 2011 02:14
12	1	03231112.D	1.	1103389-024a	SAMP ASTM-D2504	24 Mar 2011 03:13
13	1	03231113.D	1.	1103389-025a	SAMP ASTM-D2504	24 Mar 2011 03:39
14	1	03231114.D	1.	1103389-026a	SAMP ASTM-D2504	24 Mar 2011 04:08
15	1	03231115.D	1.	1103389-027a	SAMP ASTM-D2504	24 Mar 2011 04:29
16	1	03231116.D	1.	1103389-028a	SAMP ASTM-D2504	24 Mar 2011 04:55
17	1	03231117.D	1.	1103389-028adup	DUP ASTM-D2504	24 Mar 2011 05:16
18	1	03231118.D	1.	crql std 2% b	CRQL ASTM-D2504	24 Mar 2011 05:43
19	1	03231119.D	1.	ccv std 1-2 b	CCV ASTM-D2504	24 Mar 2011 07:06

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231101.D Vial: 1
Acq On : 23 Mar 2011 10:04 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 17:06 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

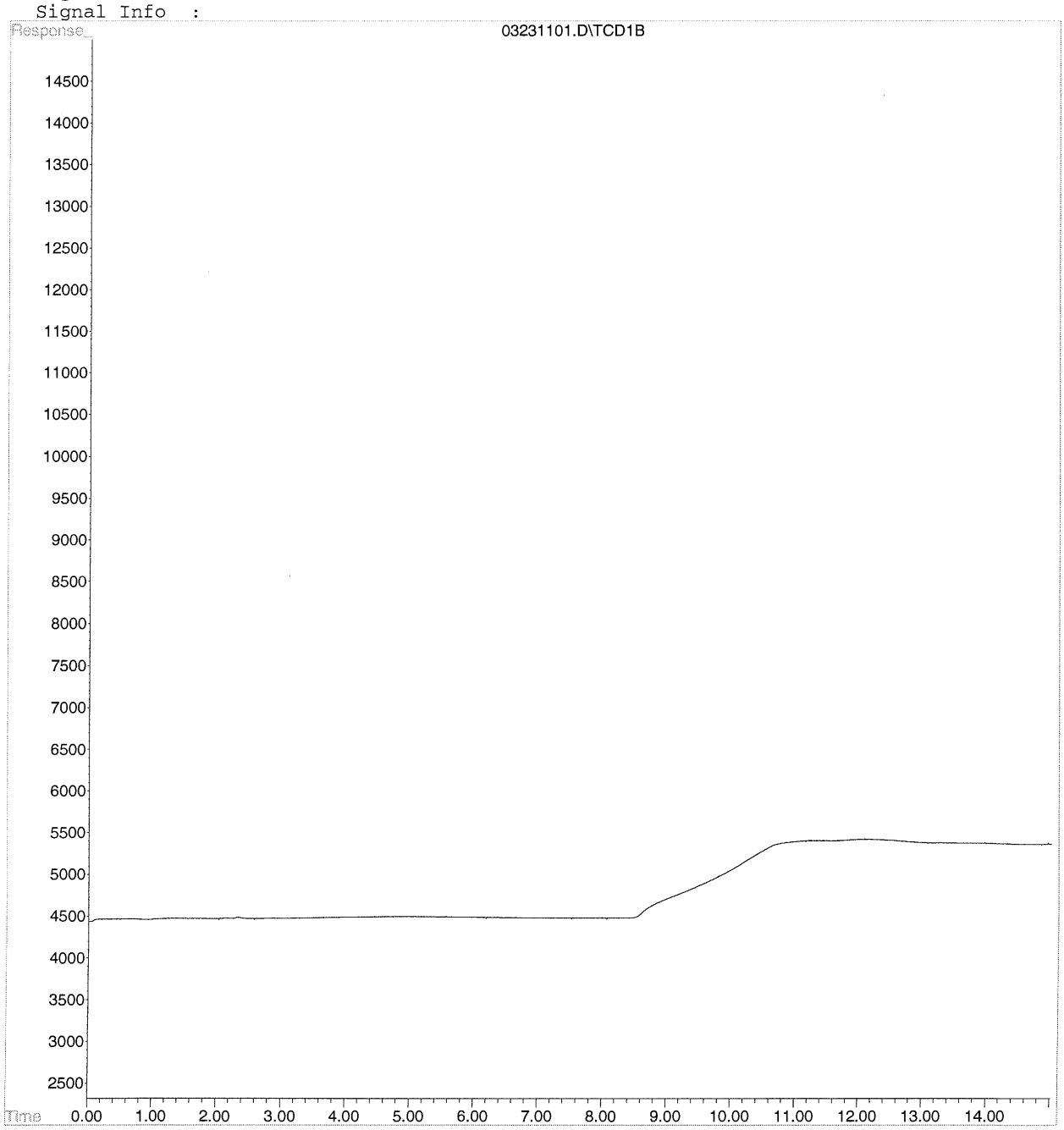
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231101.D Vial: 1
Acq On : 23 Mar 2011 10:04 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 17:06 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032311D\03231102.D Vial: 1
Acq On : 23 Mar 2011 10:33 pm Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.082	-2.5	107	0.04
2	Nitrogen	1.390	1.215	12.6	106	0.04
3	Carbon Monoxide	0.140	0.119	15.0	104	0.04
4	Methane	0.090	0.077	14.4	105	0.01
5	Carbon dioxide	0.300	0.243	19.0	85	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032311D\03231102.D Vial: 1
Acq On : 23 Mar 2011 10:33 pm Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:21:46 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231102.D Vial: 1
Acq On : 23 Mar 2011 10:33 pm Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 23 22:51 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Oxygen	2.14	12831	0.082	%	
2)	Nitrogen	2.33	211463	1.215	%	
3)	Carbon Monoxide	3.03	19635	0.119	%	
4)	Methane	6.26	10562	0.077	%	m
5)	Carbon dioxide	11.22	49824	0.243	%	m

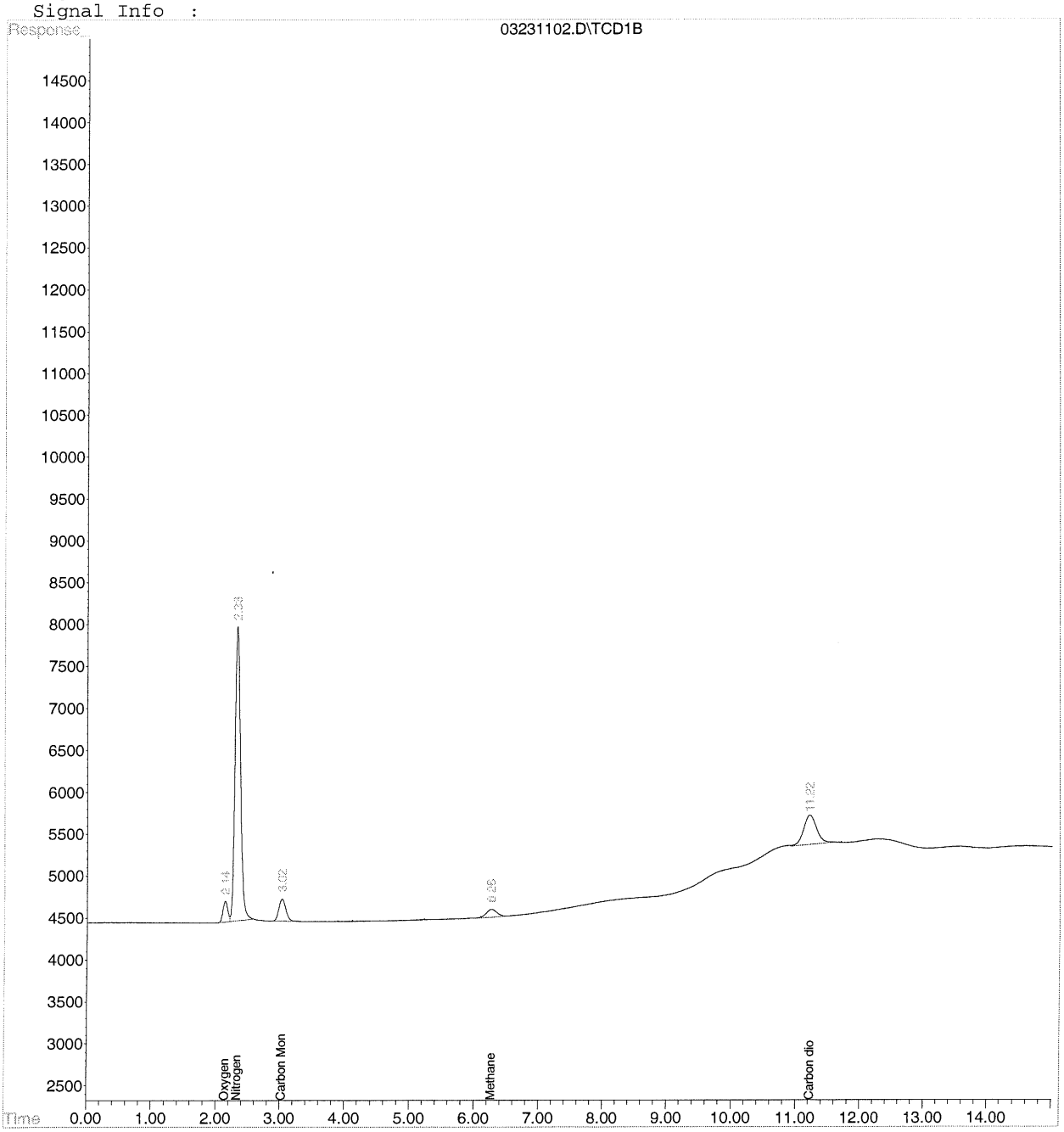
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231102.D Vial: 1
Acq On : 23 Mar 2011 10:33 pm Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 23 22:51 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032311D\03231103.D Vial: 1
Acq On : 23 Mar 2011 10:55 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.512	-0.5	0	0.04
2	Nitrogen	2.500	2.863	-14.5	0	0.04
3	Carbon Monoxide	2.500	2.548	-1.9	0	0.03
4	Methane	2.000	1.983	0.8	0	0.02
5	Carbon dioxide	2.500	2.331	6.8	0	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032311D\03231103.D Vial: 1
Acq On : 23 Mar 2011 10:55 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:22:11 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231103.D Vial: 1
Acq On : 23 Mar 2011 10:55 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	392678	2.512 %
2)	Nitrogen	2.33	498122	2.863 %
3)	Carbon Monoxide	3.02	419022	2.548 %
4)	Methane	6.26	273121	1.983 %
5)	Carbon dioxide	11.22	477088	2.331 %

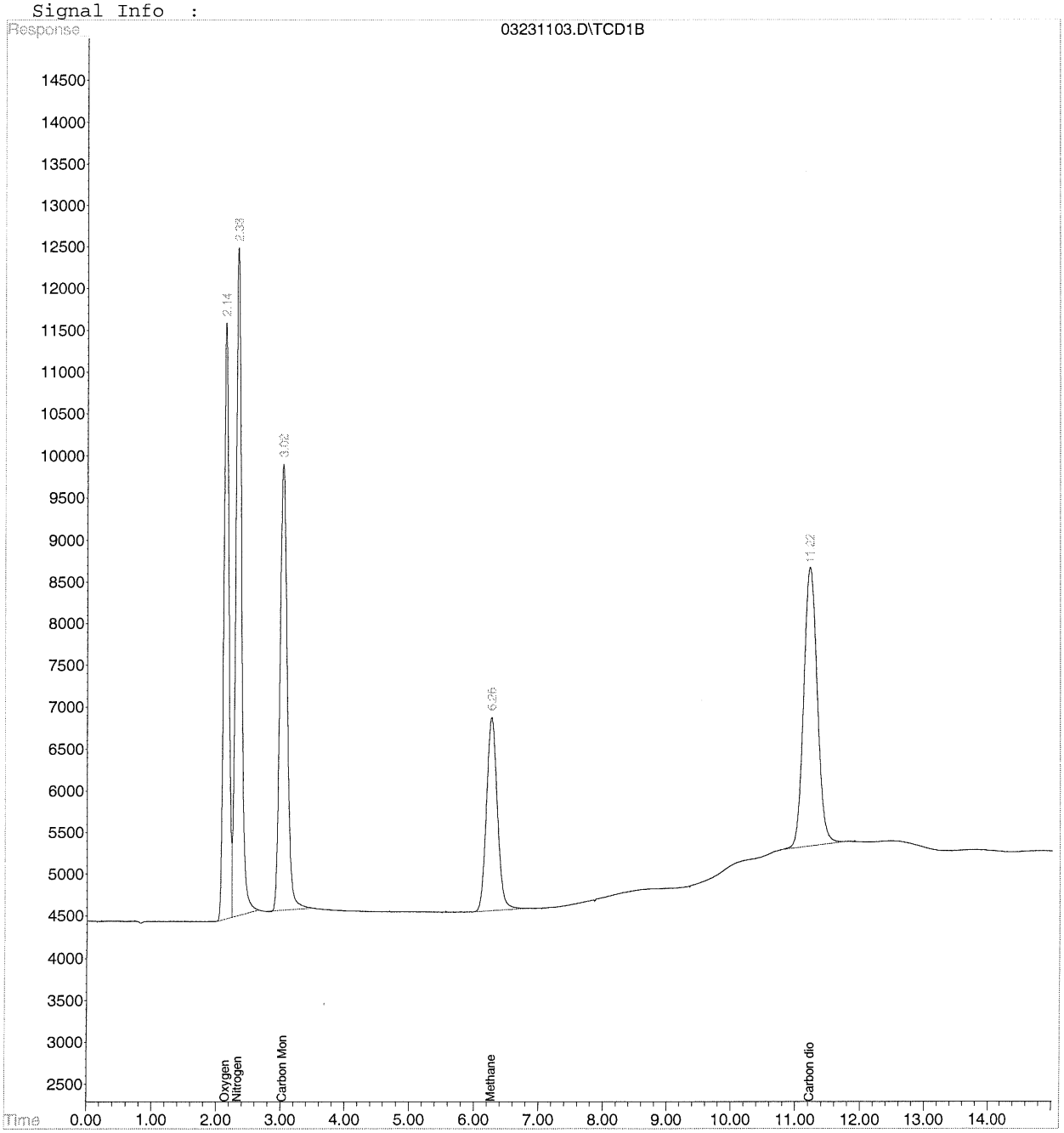
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231103.D Vial: 1
Acq On : 23 Mar 2011 10:55 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231104.D Vial: 1
Acq On : 23 Mar 2011 11:22 pm Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.14	388157	2.483 %
2)	Nitrogen	2.33	491781	2.826 %
3)	Carbon Monoxide	3.03	417505	2.539 %
4)	Methane	6.26	271614	1.972 %
5)	Carbon dioxide	11.22	484056	2.365 %

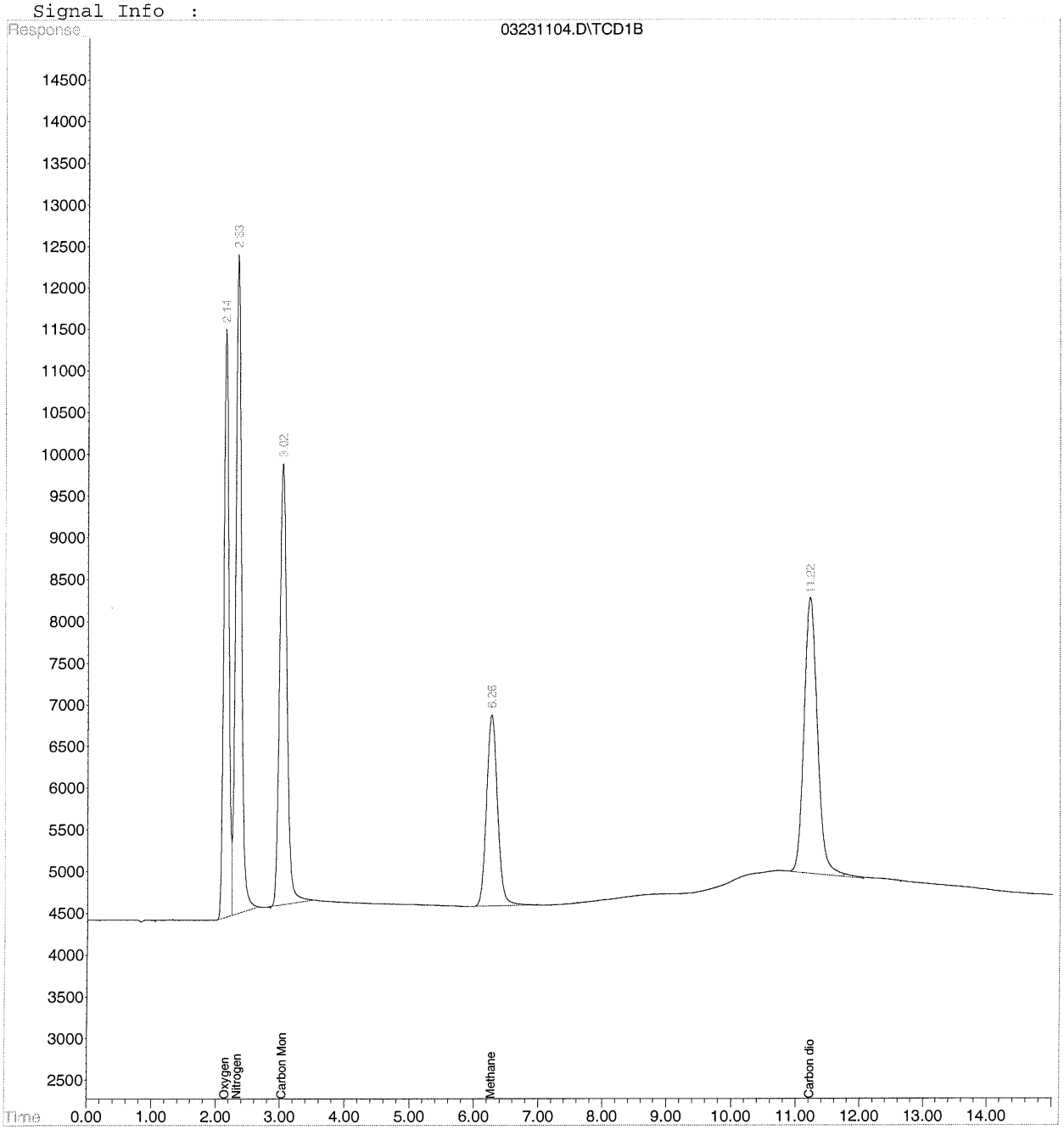
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231104.D Vial: 1
Acq On : 23 Mar 2011 11:22 pm Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231105.D Vial: 1
Acq On : 23 Mar 2011 11:56 pm Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.14	402513	2.575 %
2)	Nitrogen	2.33	522519	3.003 %
3)	Carbon Monoxide	3.03	410684	2.498 %
4)	Methane	6.26	271995	1.975 %
5)	Carbon dioxide	11.22	470164	2.297 %

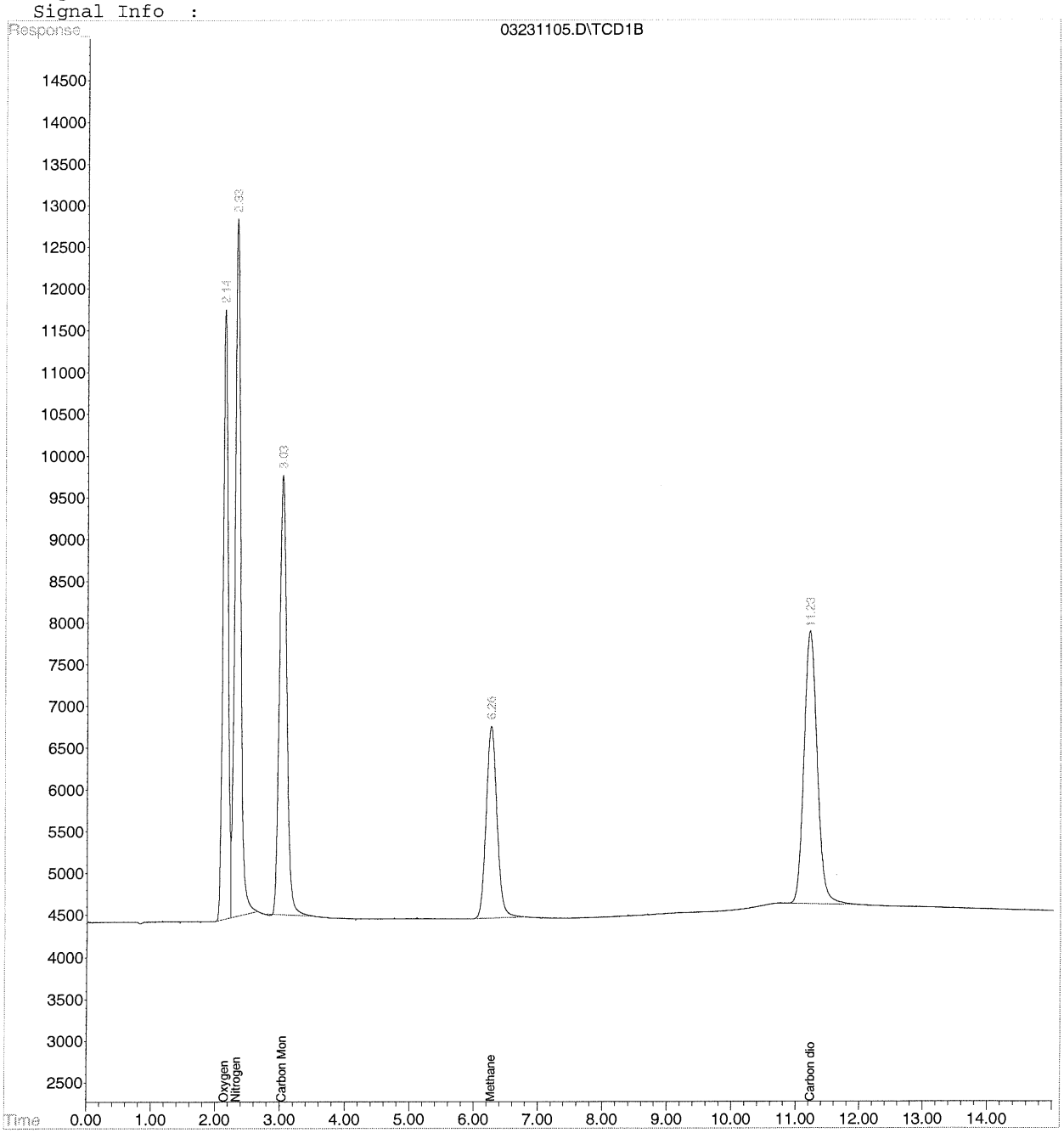
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231105.D Vial: 1
Acq On : 23 Mar 2011 11:56 pm Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231106.D Vial: 1
Acq On : 24 Mar 2011 12:17 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:49 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

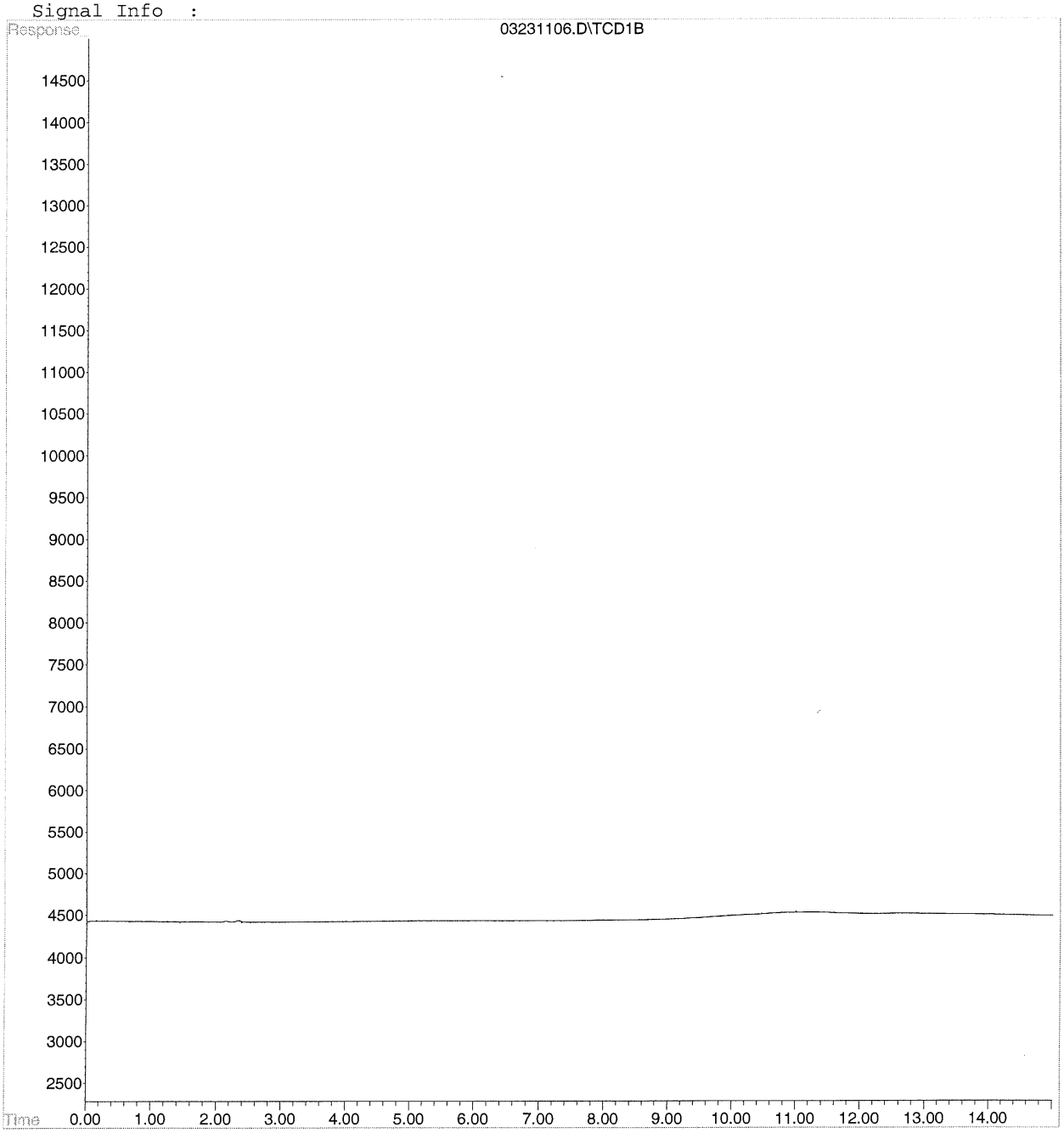
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231106.D Vial: 1
Acq On : 24 Mar 2011 12:17 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:49 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231107.D Vial: 1
Acq On : 24 Mar 2011 12:42 am Operator:
Sample : 1103389-019a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:49 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	2.13	2259190	14.453	%
2)	Nitrogen	2.28	13658739	78.495	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	708464	3.461	%

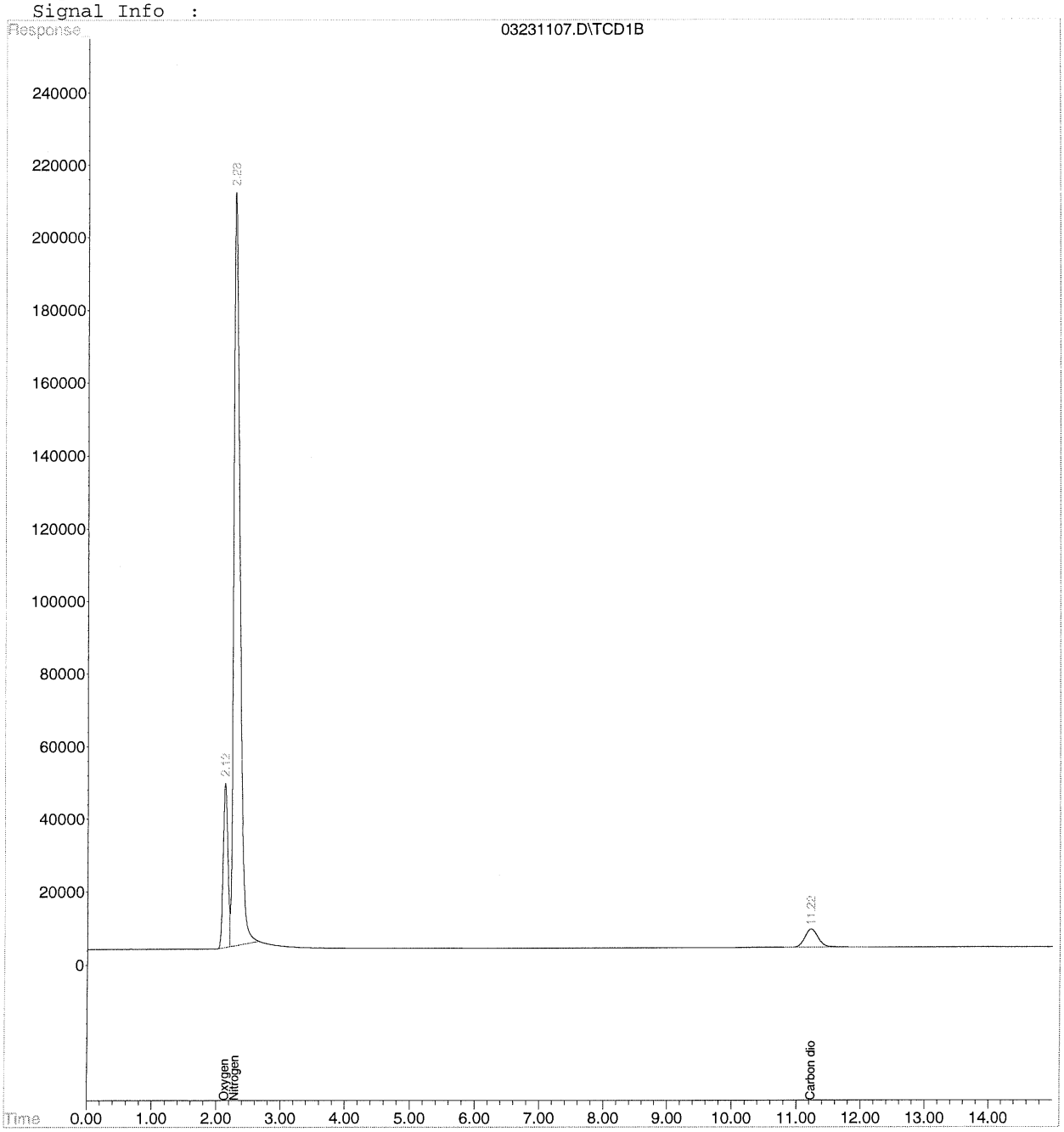
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231107.D Vial: 1
Acq On : 24 Mar 2011 12:42 am Operator:
Sample : 1103389-019a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:49 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231108.D Vial: 1
Acq On : 24 Mar 2011 1:04 am Operator:
Sample : 1103389-020a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2291526	14.660	%
2)	Nitrogen	2.28	13658206	78.492	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	591594	2.890	%

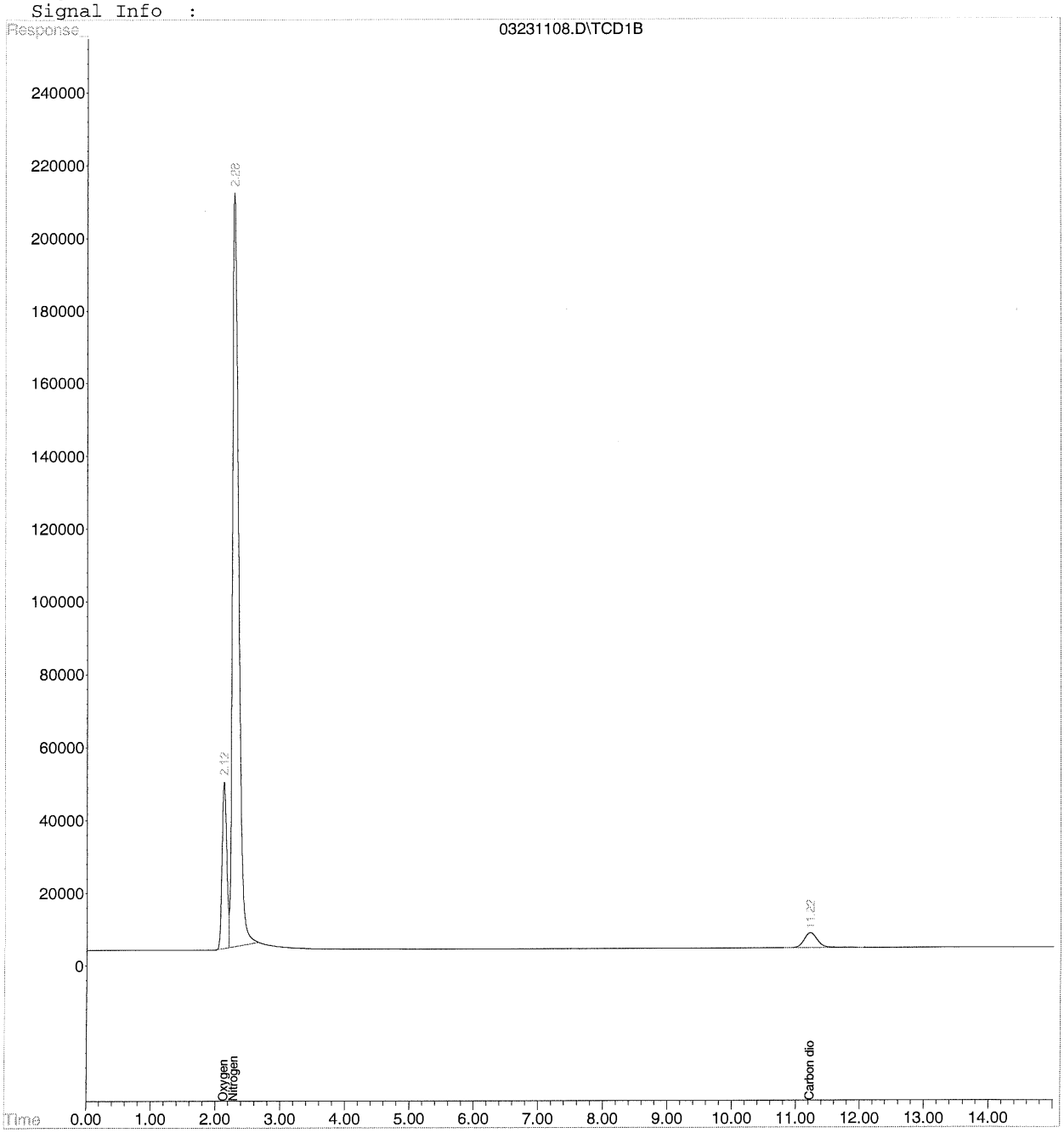
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231108.D Vial: 1
Acq On : 24 Mar 2011 1:04 am Operator:
Sample : 1103389-020a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231109.D Vial: 1
Acq On : 24 Mar 2011 1:28 am Operator:
Sample : 1103389-021a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	2.13	1725474	11.039	%
2)	Nitrogen	2.28	13729756	78.903	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1151938	5.627	%

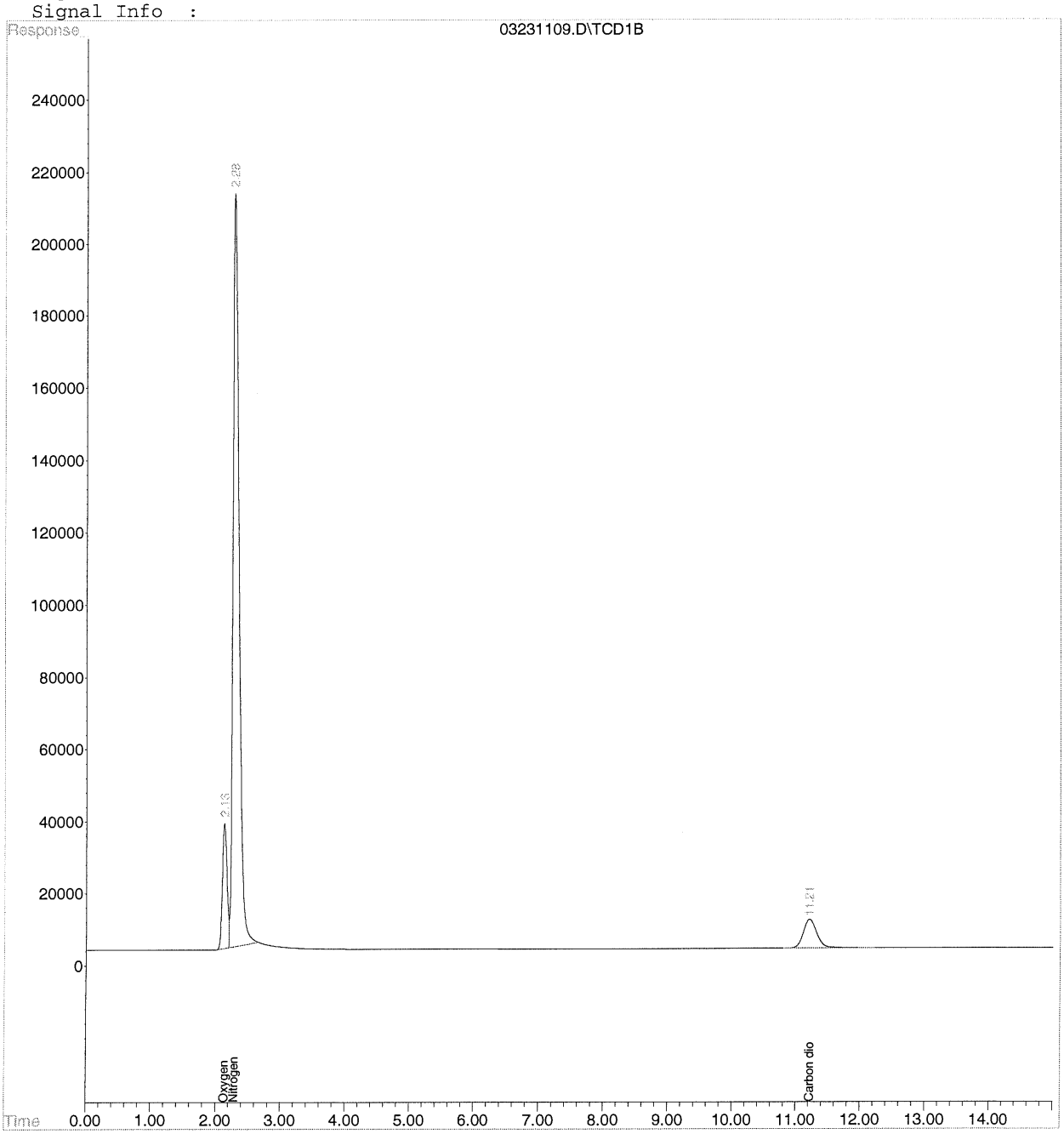
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231109.D Vial: 1
Acq On : 24 Mar 2011 1:28 am Operator:
Sample : 1103389-021a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231110.D Vial: 1
Acq On : 24 Mar 2011 1:53 am Operator:
Sample : 1103389-022a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	1574671	10.074	%
2)	Nitrogen	2.28	14261335	81.958	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	815234	3.983	%

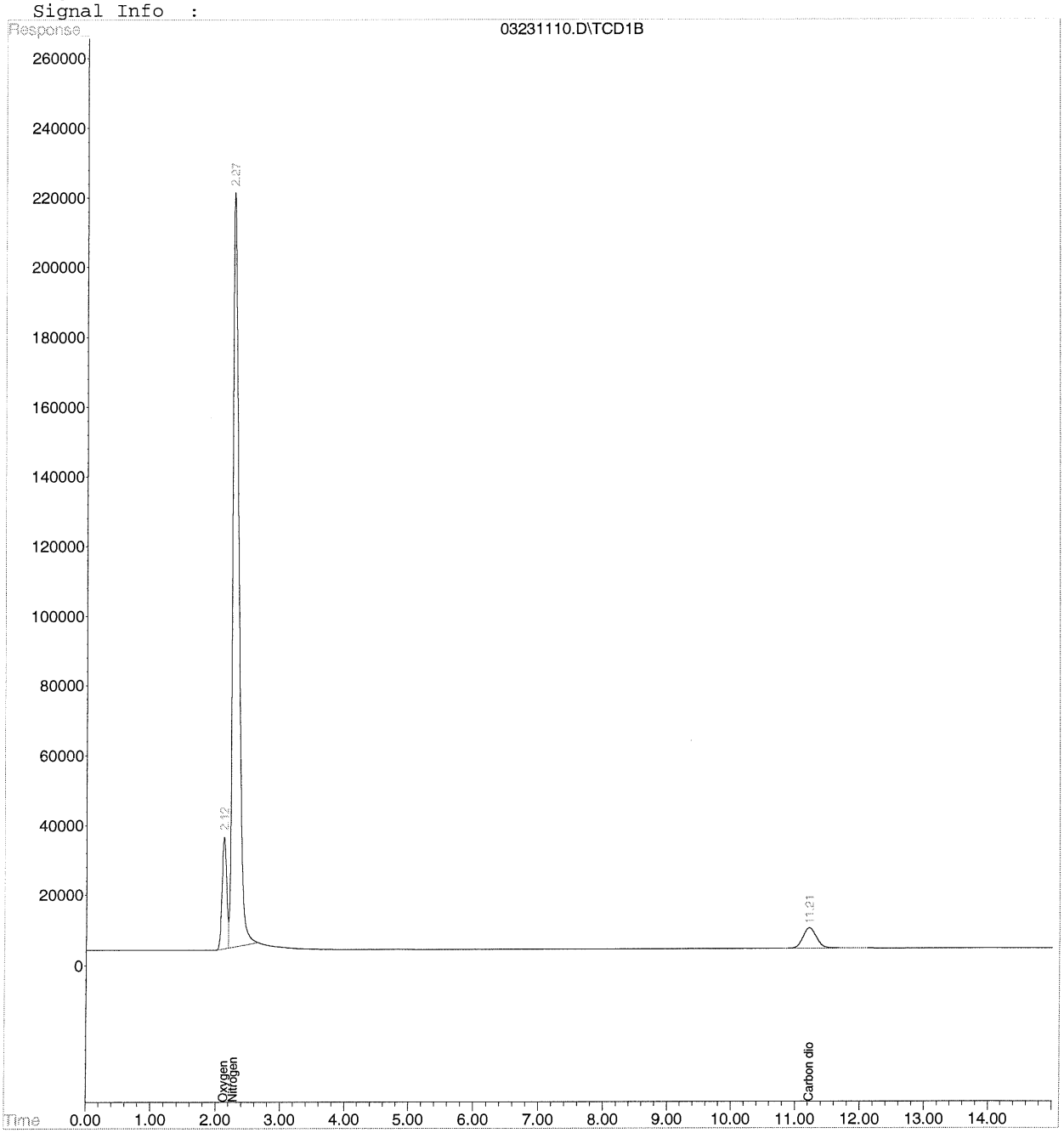
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231110.D Vial: 1
Acq On : 24 Mar 2011 1:53 am Operator:
Sample : 1103389-022a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231111.D Vial: 1
Acq On : 24 Mar 2011 2:14 am Operator:
Sample : 1103389-023a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1558689	9.972	%
2)	Nitrogen	2.28	14078190	80.905	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	841693	4.112	%

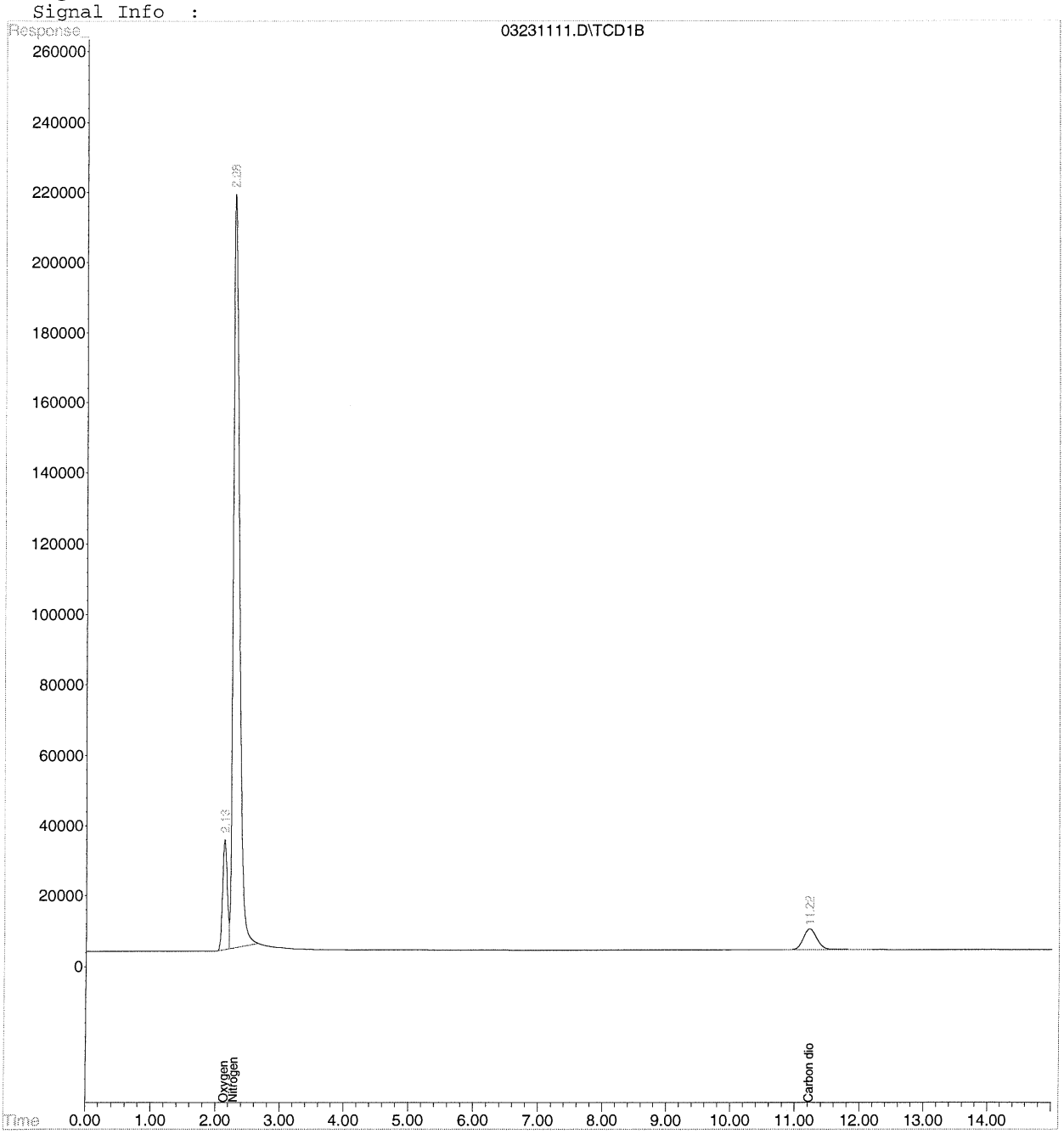
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231111.D Vial: 1
Acq On : 24 Mar 2011 2:14 am Operator:
Sample : 1103389-023a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231112.D Vial: 1
Acq On : 24 Mar 2011 3:13 am Operator:
Sample : 1103389-024a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Oxygen	2.13	815328	5.216	%	
2)	Nitrogen	2.28	14363070	82.542	%	
3)	Carbon Monoxide	0.00	0	N.D.	%	
4)	Methane	6.26	1490	0.011	%	m
5)	Carbon dioxide	11.20	1767437	8.634	%	

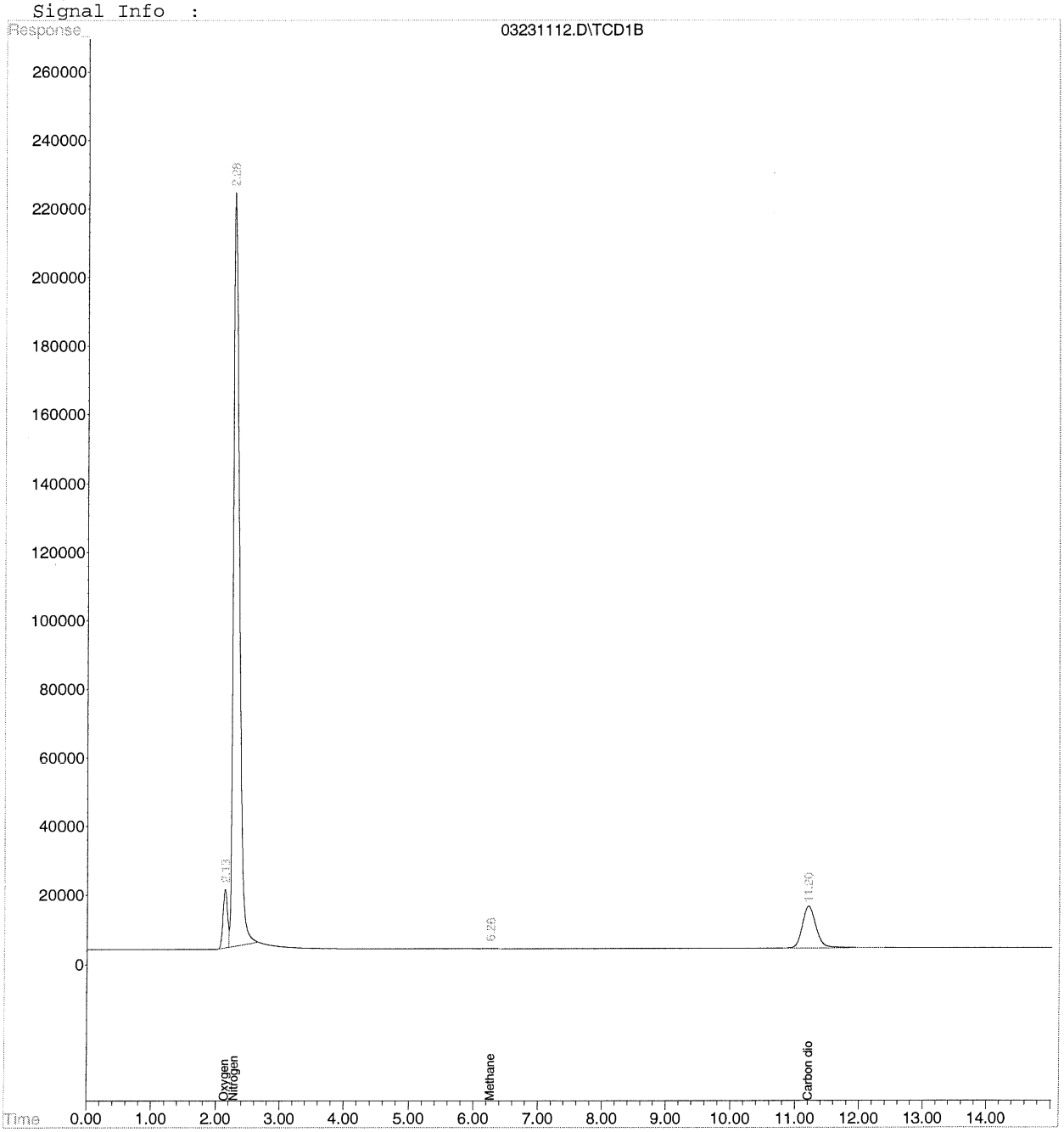
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231112.D Vial: 1
Acq On : 24 Mar 2011 3:13 am Operator:
Sample : 1103389-024a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231113.D Vial: 1
Acq On : 24 Mar 2011 3:39 am Operator:
Sample : 1103389-025a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Oxygen	2.13	700503	4.481	%	
2)	Nitrogen	2.28	14463125	83.117	%	
3)	Carbon Monoxide	0.00	0	N.D.	%	
4)	Methane	6.27	1576	0.011	%	m
5)	Carbon dioxide	11.21	1535413	7.501	%	

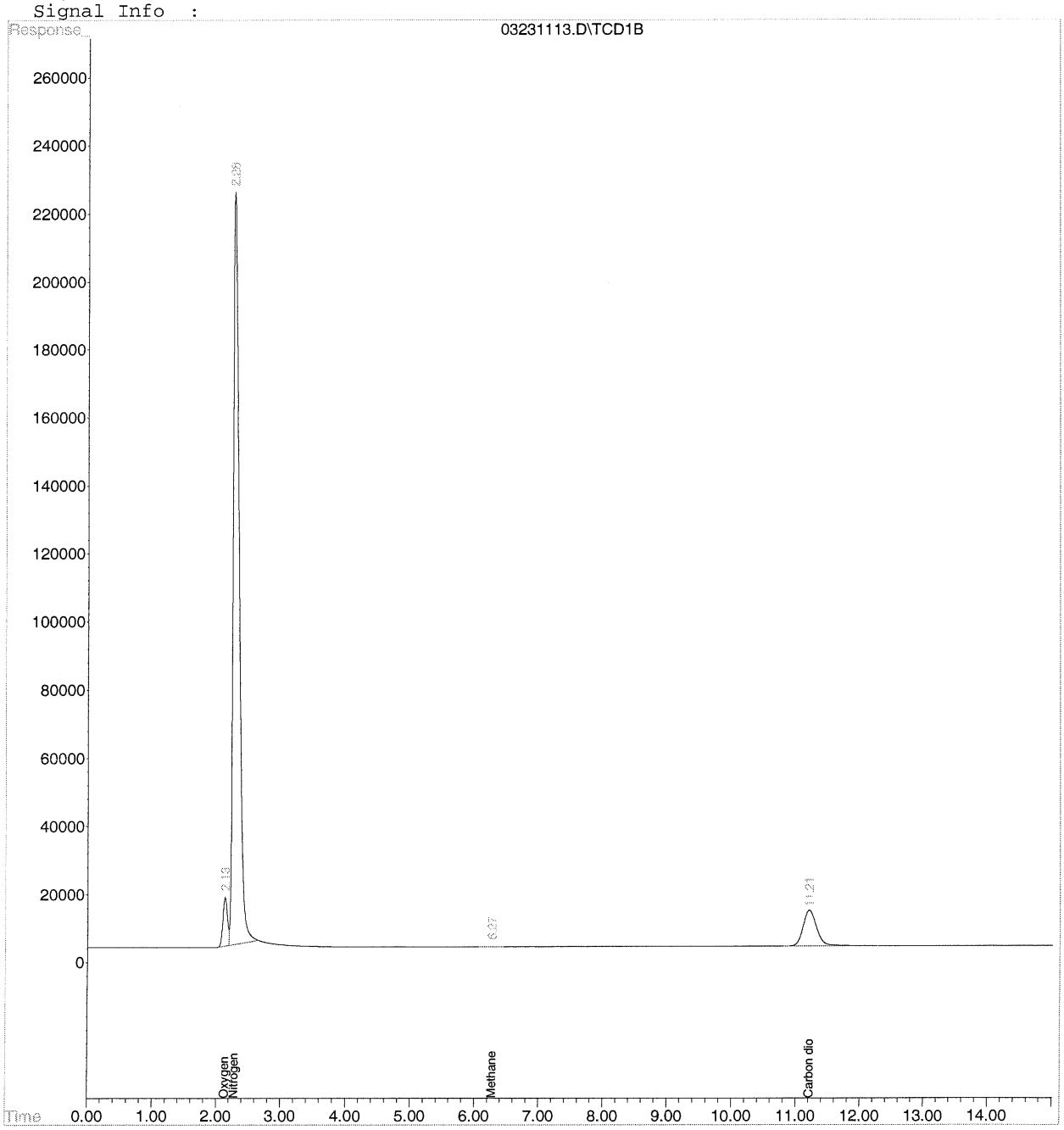
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231113.D Vial: 1
Acq On : 24 Mar 2011 3:39 am Operator:
Sample : 1103389-025a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231114.D Vial: 1
Acq On : 24 Mar 2011 4:08 am Operator:
Sample : 1103389-026a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Oxygen	2.14	432287	2.766	%	
2)	Nitrogen	2.28	14549521	83.614	%	
3)	Carbon Monoxide	0.00	0	N.D.	%	
4)	Methane	6.27	1512	0.011	%	m
5)	Carbon dioxide	11.21	1749605	8.547	%	

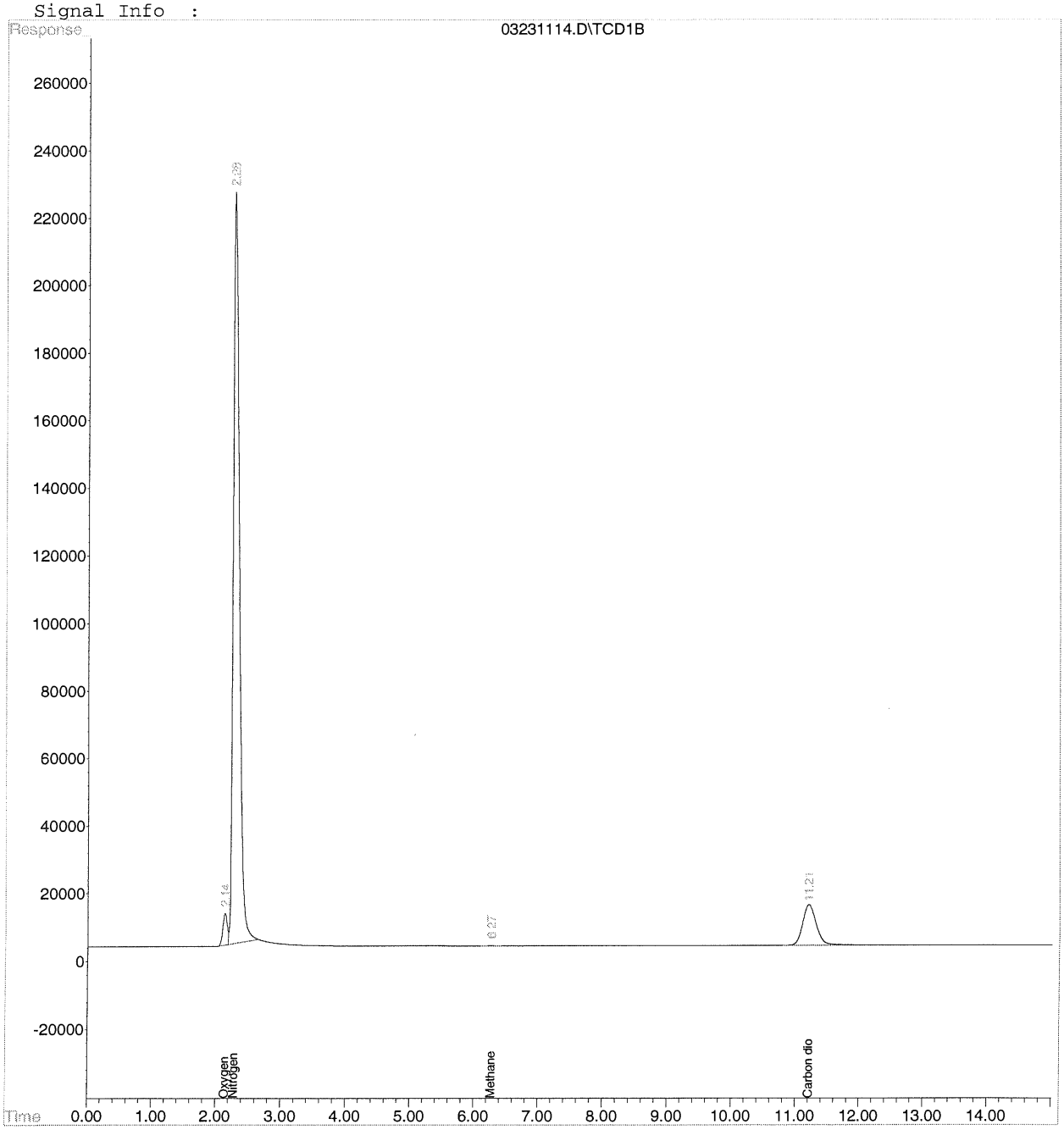
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231114.D Vial: 1
Acq On : 24 Mar 2011 4:08 am Operator:
Sample : 1103389-026a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231115.D Vial: 1
Acq On : 24 Mar 2011 4:29 am Operator:
Sample : 1103389-027a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

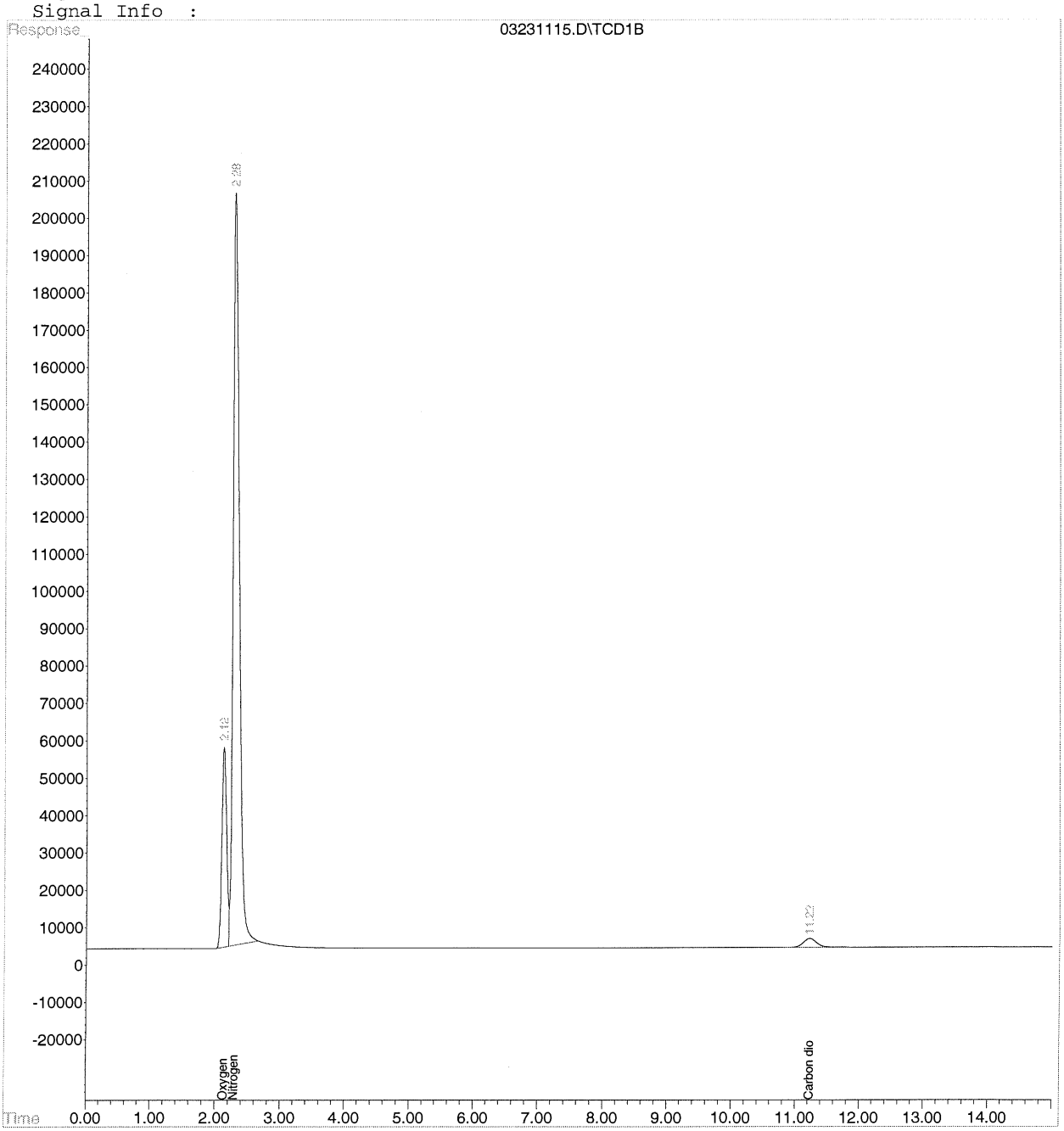
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2699014	17.267	%
2)	Nitrogen	2.29	13296741	76.414	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	329505	1.610	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231115.D Vial: 1
Acq On : 24 Mar 2011 4:29 am Operator:
Sample : 1103389-027a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231116.D Vial: 1
Acq On : 24 Mar 2011 4:55 am Operator:
Sample : 1103389-028a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:55 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3194724	20.438	%
2)	Nitrogen	2.28	13232956	76.048	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	14891	0.073	%

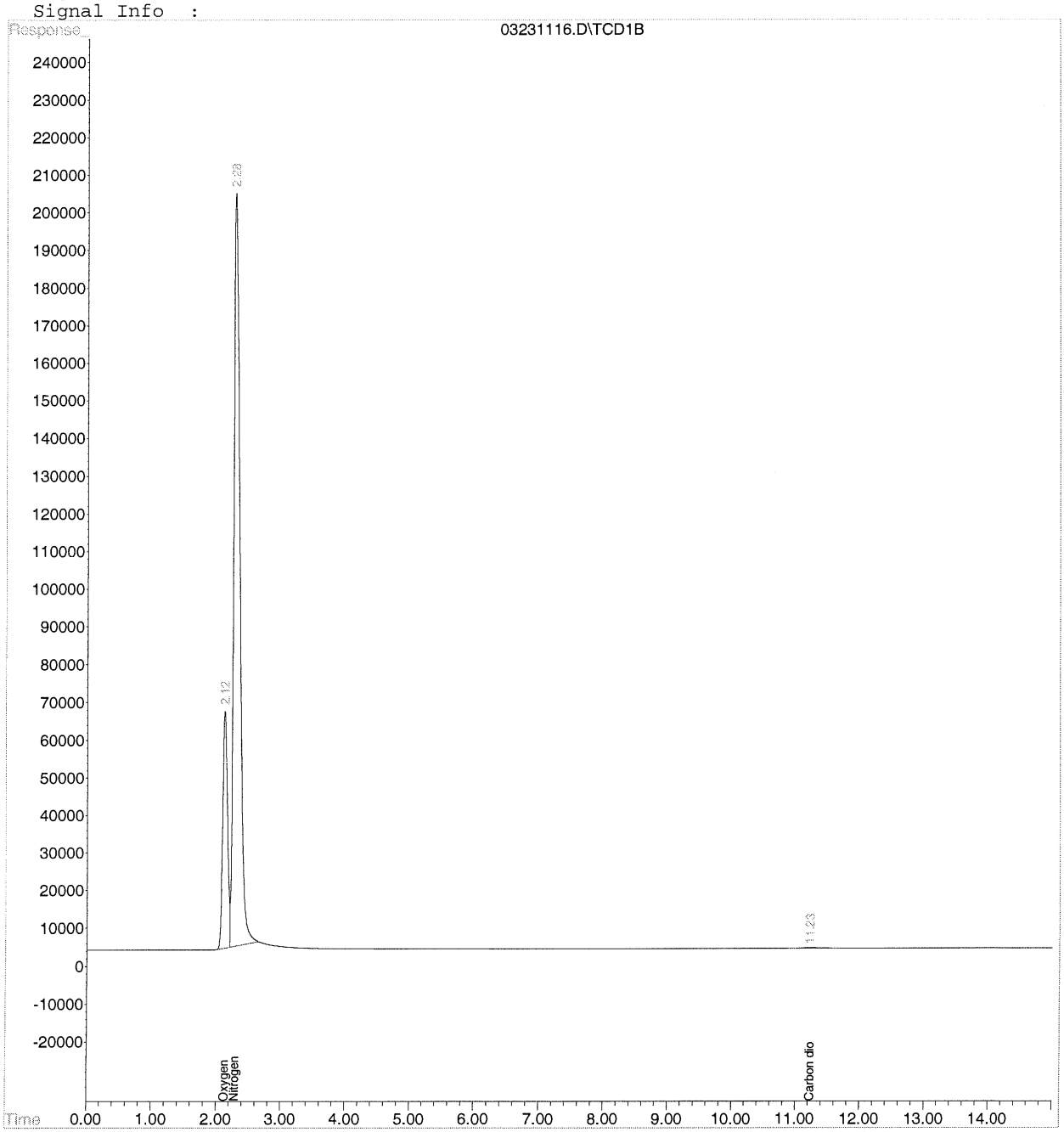
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231116.D Vial: 1
Acq On : 24 Mar 2011 4:55 am Operator:
Sample : 1103389-028a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:55 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231117.D Vial: 1
Acq On : 24 Mar 2011 5:16 am Operator:
Sample : 1103389-028adup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:55 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3179812	20.343	%
2)	Nitrogen	2.29	13166943	75.668	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	13707	0.067	%

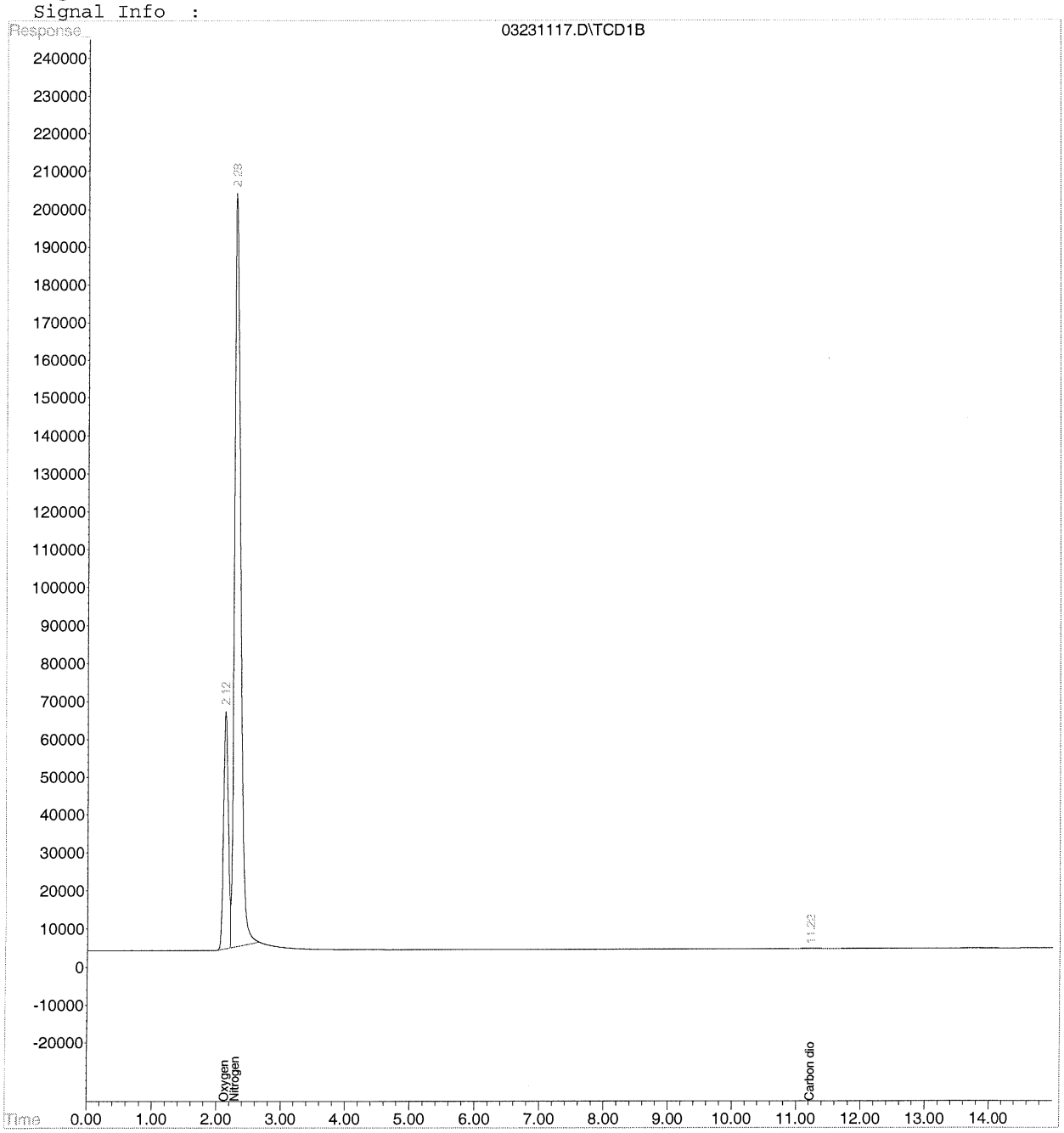
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231117.D Vial: 1
Acq On : 24 Mar 2011 5:16 am Operator:
Sample : 1103389-028adup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:55 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032311D\03231118.D Vial: 1
Acq On : 24 Mar 2011 5:43 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.087	-8.7	113	0.04
2	Nitrogen	1.390	1.480	-6.5	129	0.04
3	Carbon Monoxide	0.140	0.146	-4.3	128	0.04
4	Methane	0.090	0.091	-1.1	125	0.02
5	Carbon dioxide	0.300	0.297	1.0	104	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032311D\03231118.D Vial: 1
Acq On : 24 Mar 2011 5:43 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:23:43 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231118.D Vial: 1
Acq On : 24 Mar 2011 5:43 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 24 6:05 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	13554	0.087 %
2)	Nitrogen	2.33	257554	1.480 %
3)	Carbon Monoxide	3.03	24070	0.146 %
4)	Methane	6.26	12546	0.091 %
5)	Carbon dioxide	11.22	60783	0.297 %

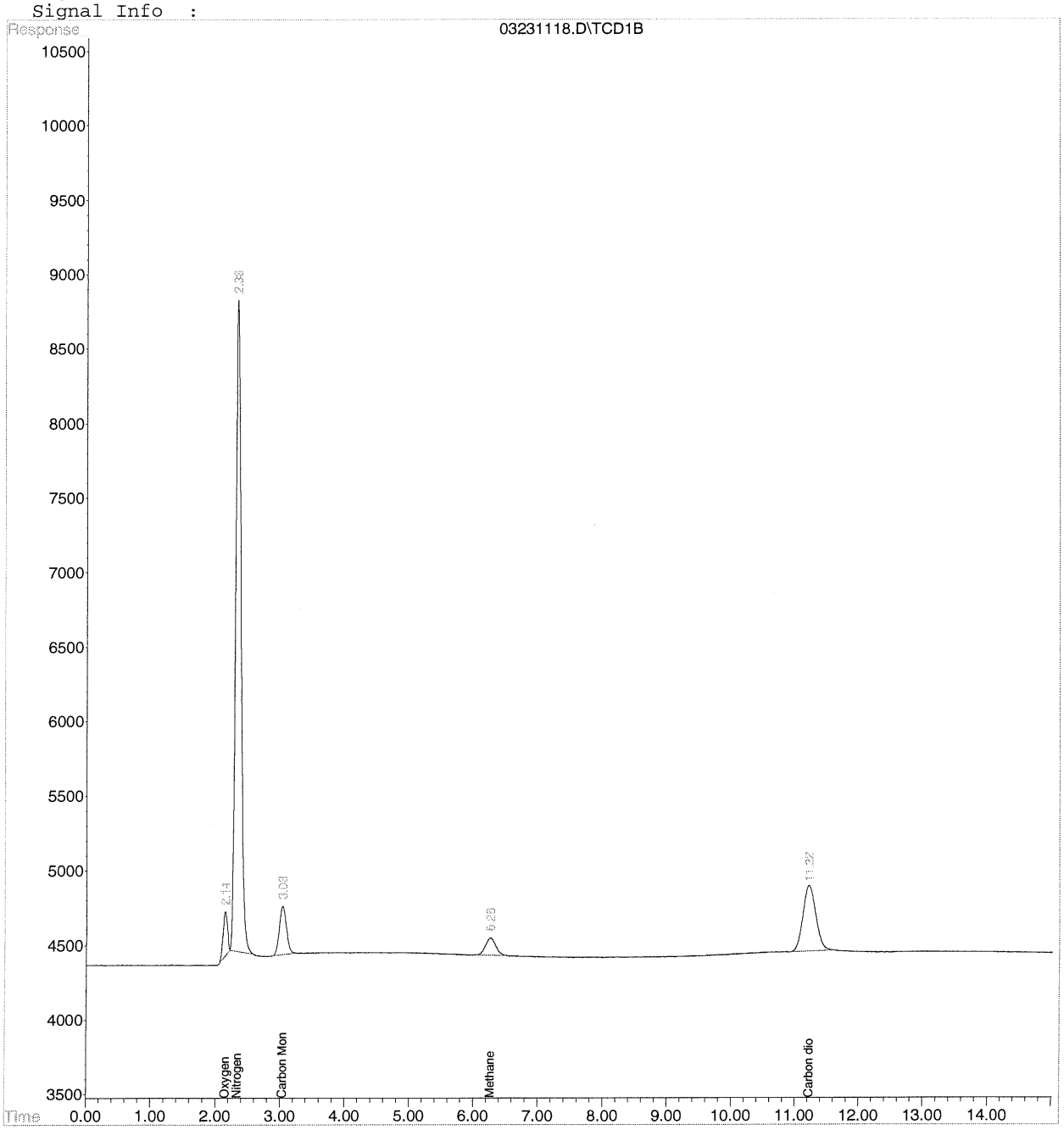
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231118.D Vial: 1
Acq On : 24 Mar 2011 5:43 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 6:05 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032311D\03231119.D Vial: 1
Acq On : 24 Mar 2011 7:06 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.460	1.6	0	0.04
2	Nitrogen	2.500	2.802	-12.1	0	0.04
3	Carbon Monoxide	2.500	2.481	0.8	0	0.04
4	Methane	2.000	1.944	2.8	0	0.01
5	Carbon dioxide	2.500	2.272	9.1	0	0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032311D\03231119.D Vial: 1
Acq On : 24 Mar 2011 7:06 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:23:26 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032311D\03231119.D Vial: 1
Acq On : 24 Mar 2011 7:06 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:47 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	384569	2.460 %
2)	Nitrogen	2.33	487495	2.802 %
3)	Carbon Monoxide	3.03	407991	2.481 %
4)	Methane	6.26	267699	1.944 %
5)	Carbon dioxide	11.22	464990	2.272 %

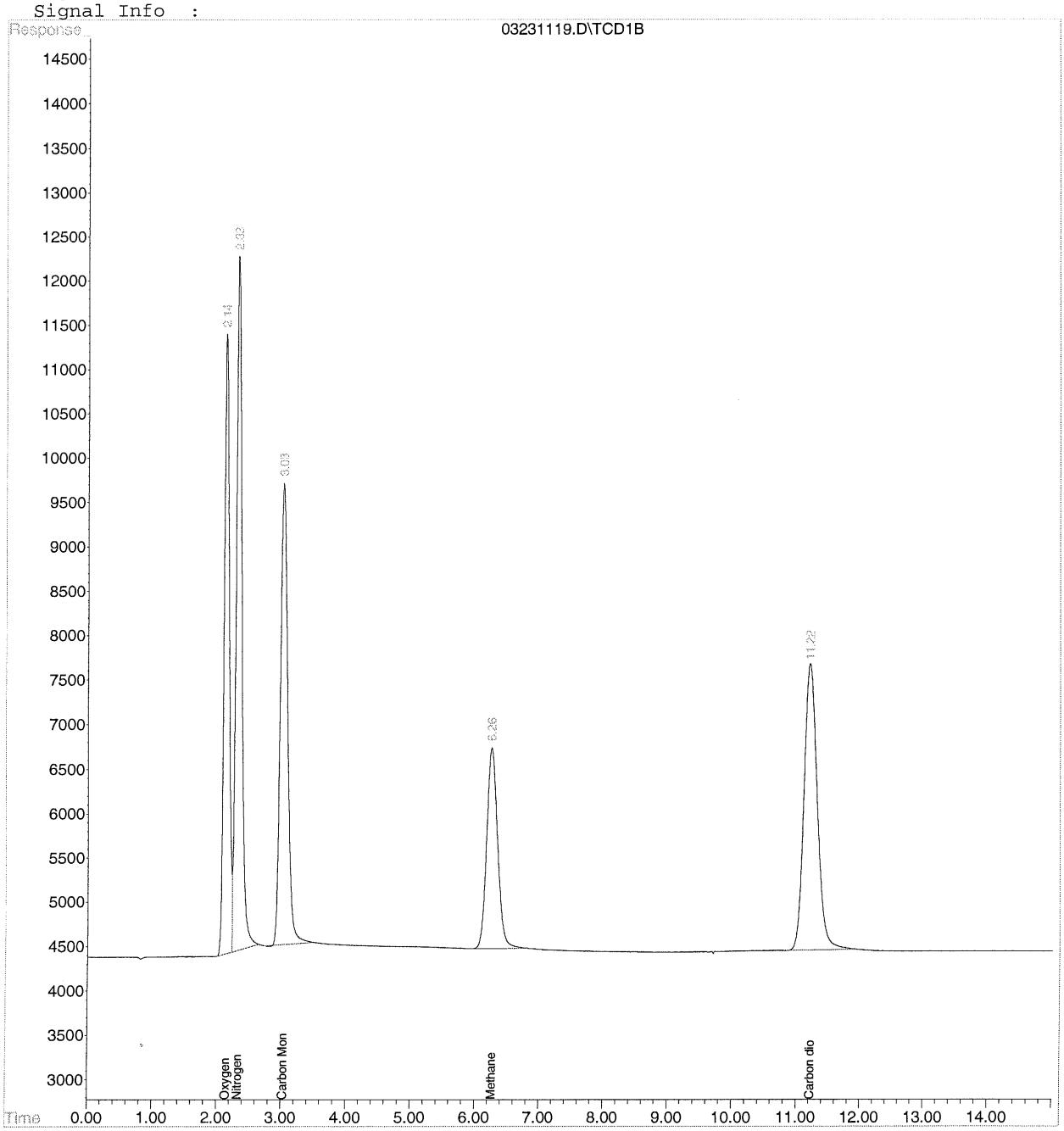
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032311D\03231119.D Vial: 1
Acq On : 24 Mar 2011 7:06 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 24 16:47 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\032411d

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03241101.D	1.	icb	ICB ASTM-D2504	24 Mar 2011 22:41
2	1	03241102.d	1.	ccv std 1-2 a	CCV ASTM-D2504	25 Mar 2011 00:03
3	1	03241103.d	1.	crql std 2% a	CRQL ASTM-D2504crql std 2% a	25 Mar 2011 00:58
4	1	03241104.d	1.	1103389-029a	SAMP ASTM-D2504	25 Mar 2011 01:21
5	1	03241105.D	1.	1103389-030a	SAMP ASTM-D2504	25 Mar 2011 01:51
6	1	03241106.D	1.	1103389-031a	SAMP ASTM-D2504	25 Mar 2011 02:12
7	1	03241107.D	1.	1103389-032a	SAMP ASTM-D2504	25 Mar 2011 02:31
8	1	03241108.D	1.	1103389-033a	SAMP ASTM-D2504	25 Mar 2011 03:37
9	1	03241109.D	1.	1103389-034a	SAMP ASTM-D2504	25 Mar 2011 04:30
10	1	03241110.D	1.	1103389-035a	SAMP ASTM-D2504	25 Mar 2011 04:54
11	1	03241111.D	1.	1103389-036a	SAMP ASTM-D2504	25 Mar 2011 05:16
12	1	03241112.D	1.	1103389-037a	SAMP ASTM-D2504	25 Mar 2011 05:36
13	1	03241113.D	1.	1103389-037adup	DUP ASTM-D2504	25 Mar 2011 06:02
14	1	03241114.D	1.	ccb	CCB ASTM-D2504	25 Mar 2011 06:22
15	1	03241115.d	1.	crql std 2% b	CRQL ASTM-D2504	25 Mar 2011 07:08
16	1	03241116.d	1.	ccv std 1-2 b	CCV ASTM-D2504	25 Mar 2011 09:18

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241101.D Vial: 1
Acq On : 24 Mar 2011 10:41 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 7:55 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

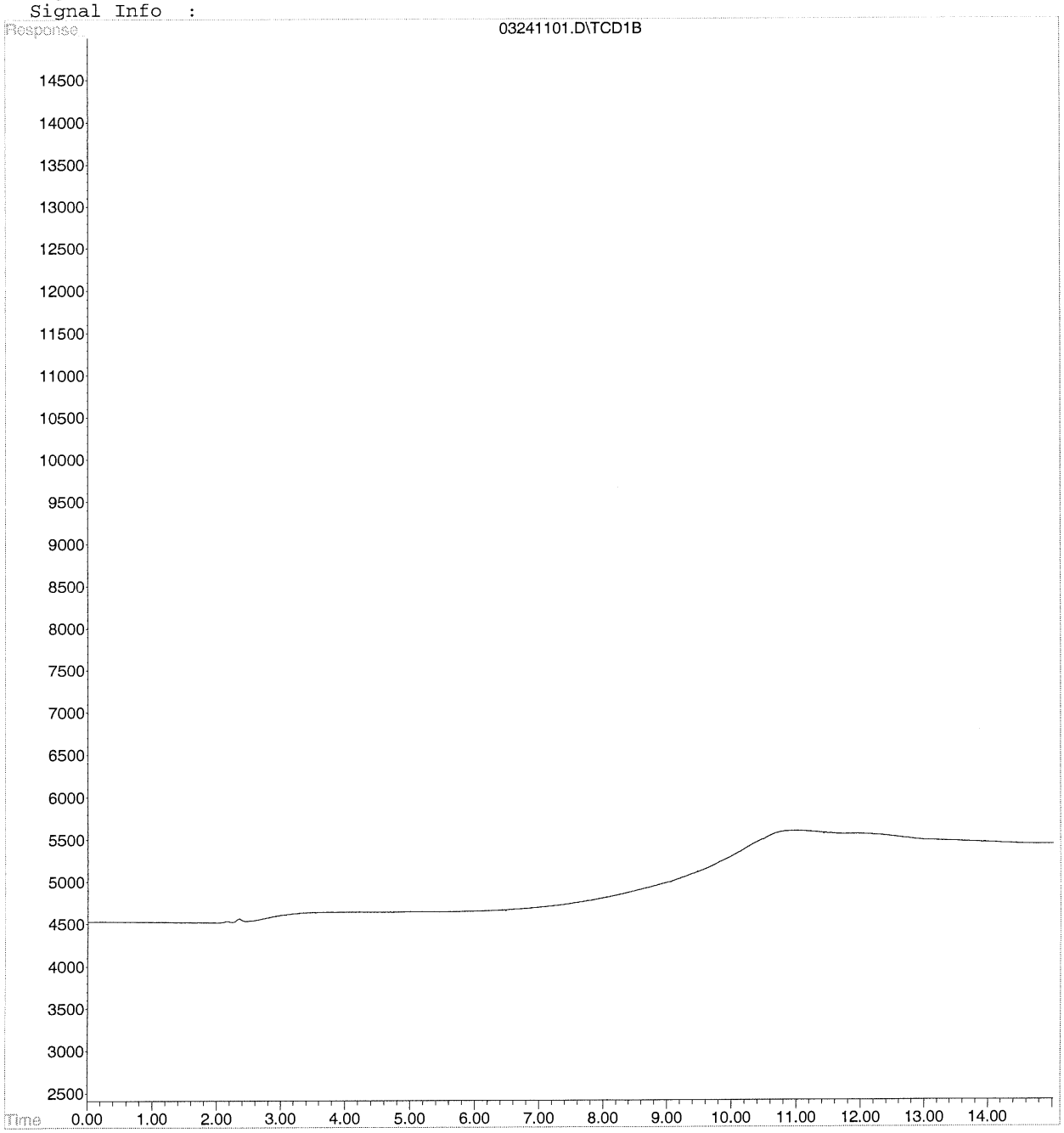
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241101.D Vial: 1
Acq On : 24 Mar 2011 10:41 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 7:55 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032411D\03241102.D Vial: 1
Acq On : 25 Mar 2011 12:03 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.484	0.6	0	0.04
2	Nitrogen	2.500	2.816	-12.6	0	0.04
3	Carbon Monoxide	2.500	2.462	1.5	0	0.04
4	Methane	2.000	1.955	2.2	0	0.02
5	Carbon dioxide	2.500	2.203	11.9	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032411D\03241102.D Vial: 1
Acq On : 25 Mar 2011 12:03 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:24:19 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241102.D Vial: 1
Acq On : 25 Mar 2011 12:03 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 0:24 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	388316	2.484 %
2)	Nitrogen	2.33	489952	2.816 %
3)	Carbon Monoxide	3.03	404806	2.462 %
4)	Methane	6.27	269197	1.955 %
5)	Carbon dioxide	11.23f	450975	2.203 %

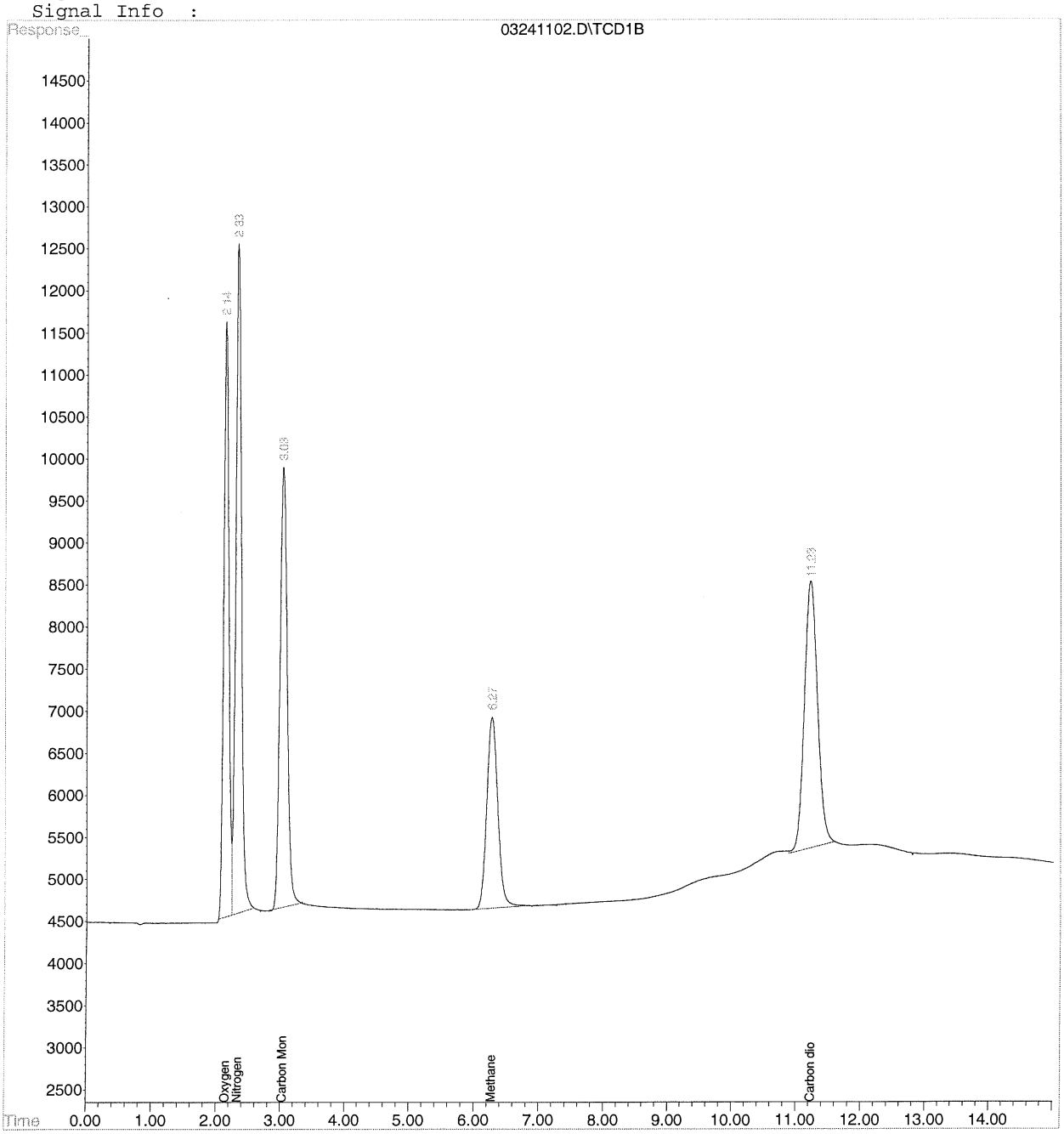
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241102.D Vial: 1
Acq On : 25 Mar 2011 12:03 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 0:24 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032411D\03241103.D Vial: 1
Acq On : 25 Mar 2011 12:58 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504crql std 2% a Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.081	-1.3	106	0.05
2	Nitrogen	1.390	1.590	-14.4	139	0.05
3	Carbon Monoxide	0.140	0.166	-18.6	145	0.05
4	Methane	0.090	0.107	-18.9	147	0.03
5	Carbon dioxide	0.300	0.346	-15.3	121	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032411D\03241103.D Vial: 1
Acq On : 25 Mar 2011 12:58 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504crql std 2% a Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:24:33 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241103.D Vial: 1
Acq On : 25 Mar 2011 12:58 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504crql std 2% a Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 1:16 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.15	12732	0.081 %
2)	Nitrogen	2.34	276730	1.590 %
3)	Carbon Monoxide	3.04	27360	0.166 %
4)	Methane	6.27	14754	0.107 %
5)	Carbon dioxide	11.23f	70871	0.346 %

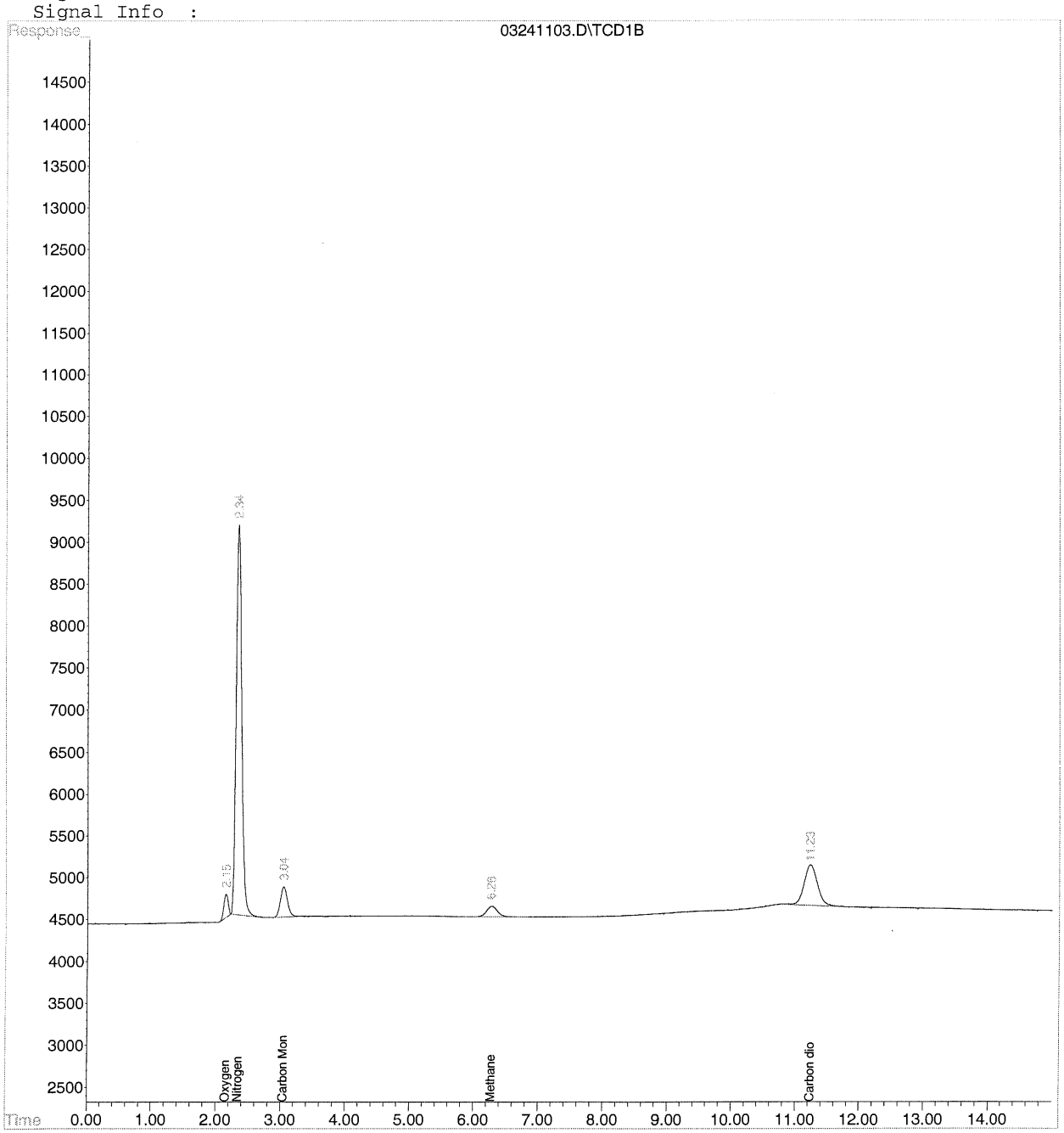
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241103.D Vial: 1
Acq On : 25 Mar 2011 12:58 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504crql std 2% a Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 1:16 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241104.D Vial: 1
Acq On : 25 Mar 2011 1:21 am Operator:
Sample : 1103389-029a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:00 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	3099653	19.830	%
2)	Nitrogen	2.29	13467057	77.393	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	27029	0.132	%

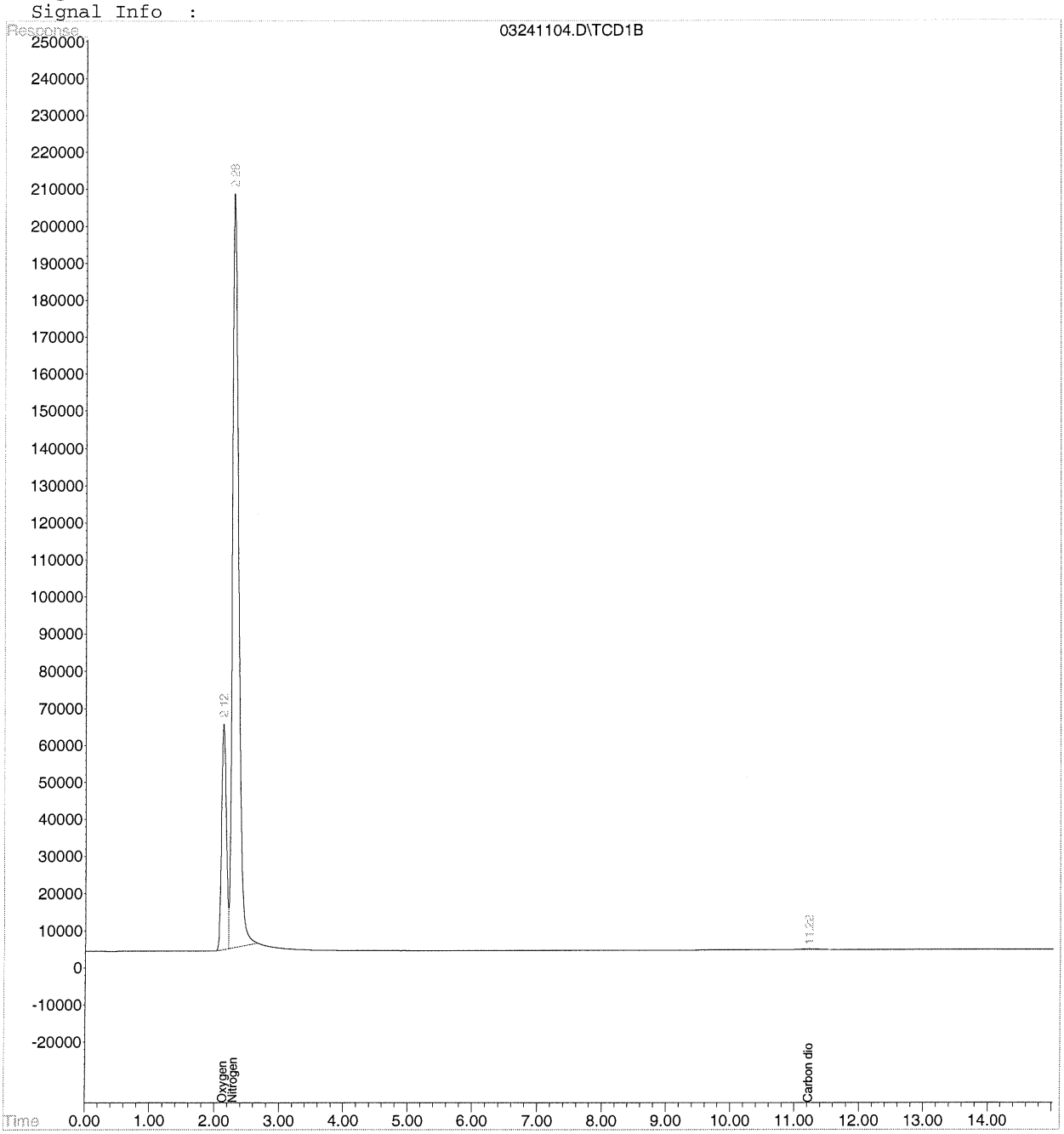
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241104.D Vial: 1
Acq On : 25 Mar 2011 1:21 am Operator:
Sample : 1103389-029a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:00 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241105.D Vial: 1
Acq On : 25 Mar 2011 1:51 am Operator:
Sample : 1103389-030a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3091340	19.777	%
2)	Nitrogen	2.29	13564673	77.954	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	41117	0.201	%

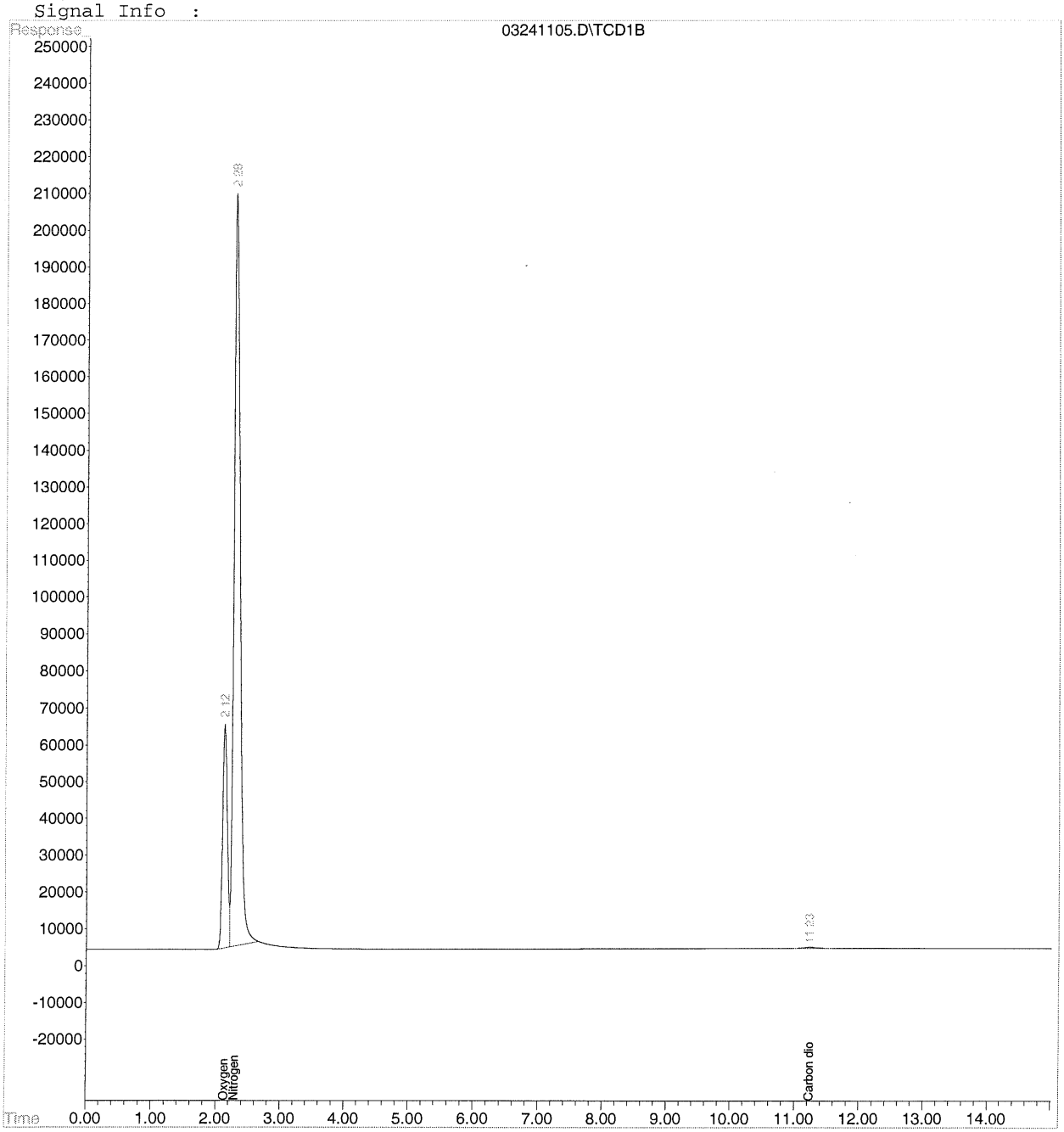
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241105.D Vial: 1
Acq On : 25 Mar 2011 1:51 am Operator:
Sample : 1103389-030a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241106.D Vial: 1
Acq On : 25 Mar 2011 2:12 am Operator:
Sample : 1103389-031a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2692596	17.226	%
2)	Nitrogen	2.29	13801741	79.316	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	123914	0.605	%

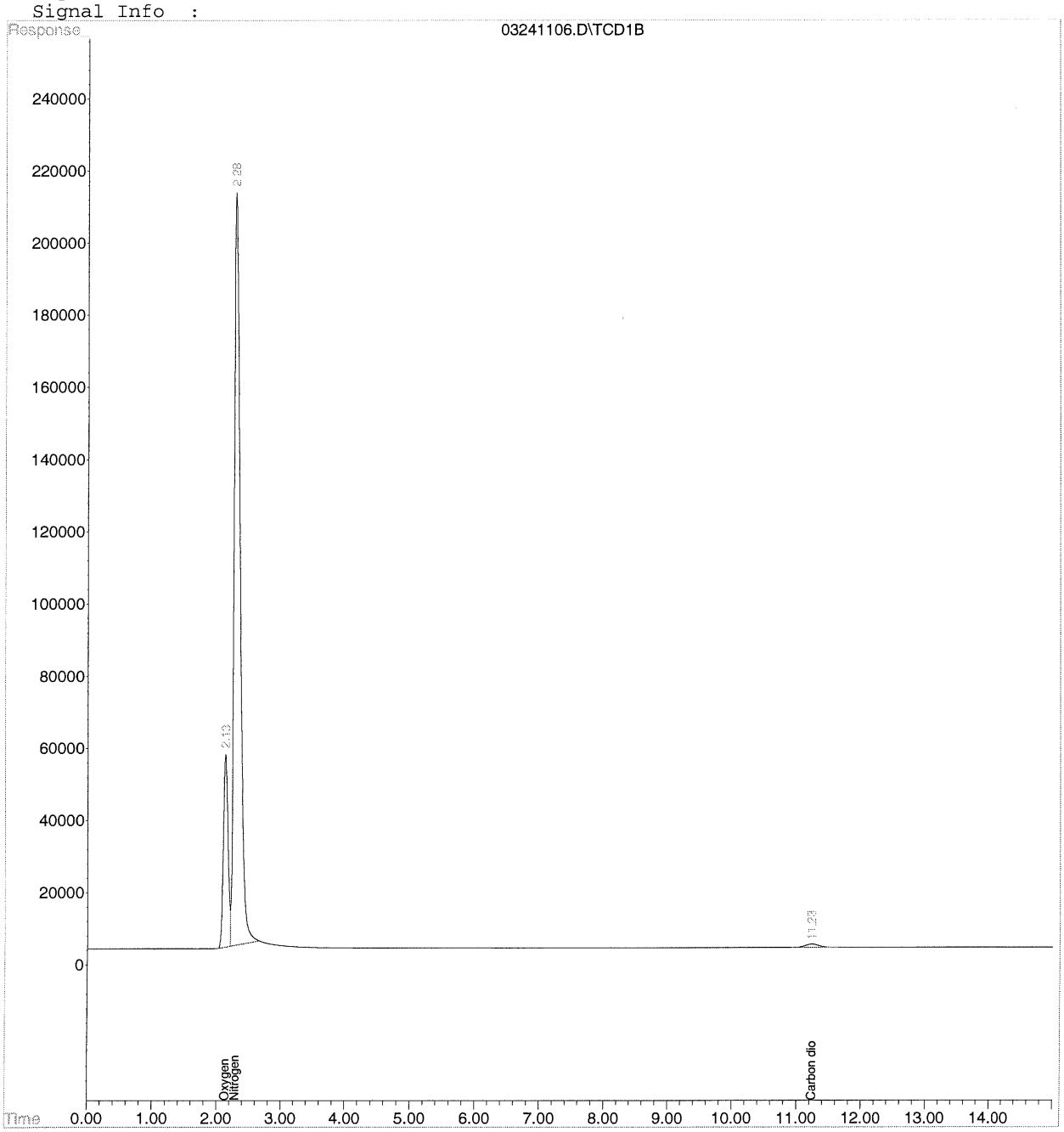
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241106.D Vial: 1
Acq On : 25 Mar 2011 2:12 am Operator:
Sample : 1103389-031a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241107.D Vial: 1
Acq On : 25 Mar 2011 2:31 am Operator:
Sample : 1103389-032a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	3078983	19.698	%
2)	Nitrogen	2.29	13412402	77.079	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.24f	31117	0.152	%

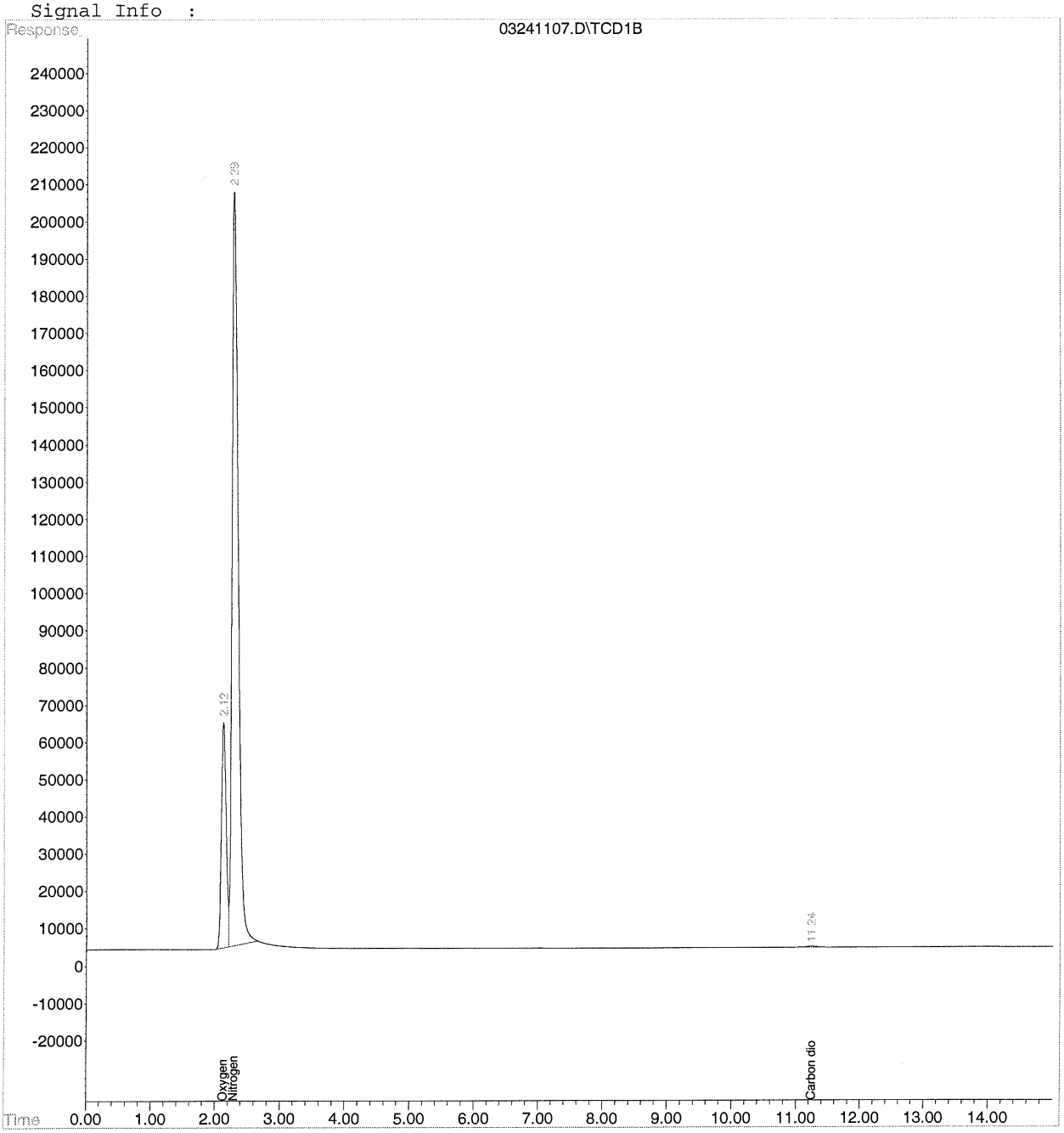
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241107.D Vial: 1
Acq On : 25 Mar 2011 2:31 am Operator:
Sample : 1103389-032a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241108.D Vial: 1
Acq On : 25 Mar 2011 3:37 am Operator:
Sample : 1103389-033a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3155865	20.189	%
2)	Nitrogen	2.28	13587665	78.086	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	24089	0.118	%

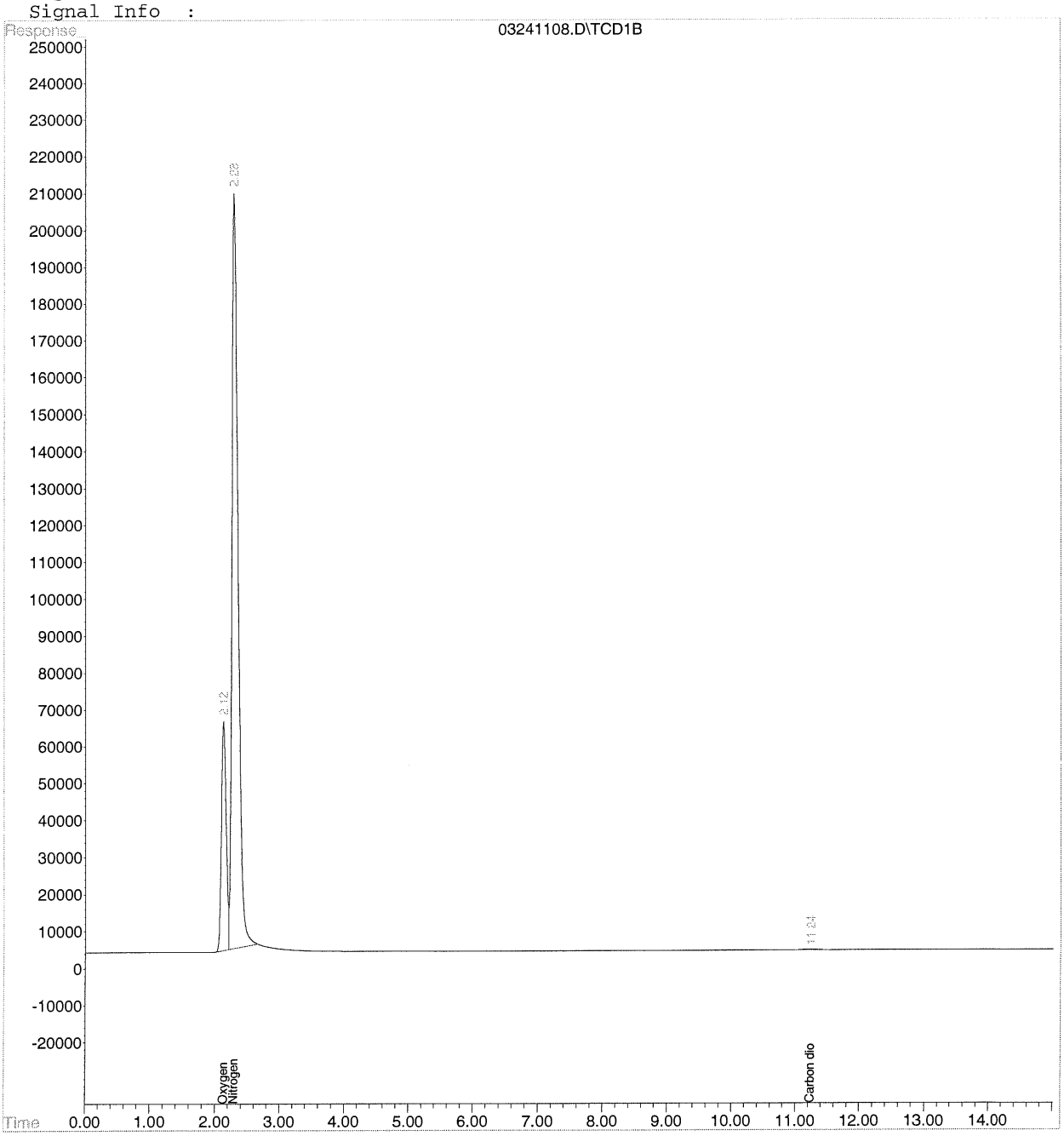
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241108.D Vial: 1
Acq On : 25 Mar 2011 3:37 am Operator:
Sample : 1103389-033a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:01 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241109.D Vial: 1
Acq On : 25 Mar 2011 4:30 am Operator:
Sample : 1103389-034a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	3112210	19.910	%
2)	Nitrogen	2.29	13612902	78.231	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	29127	0.142	%

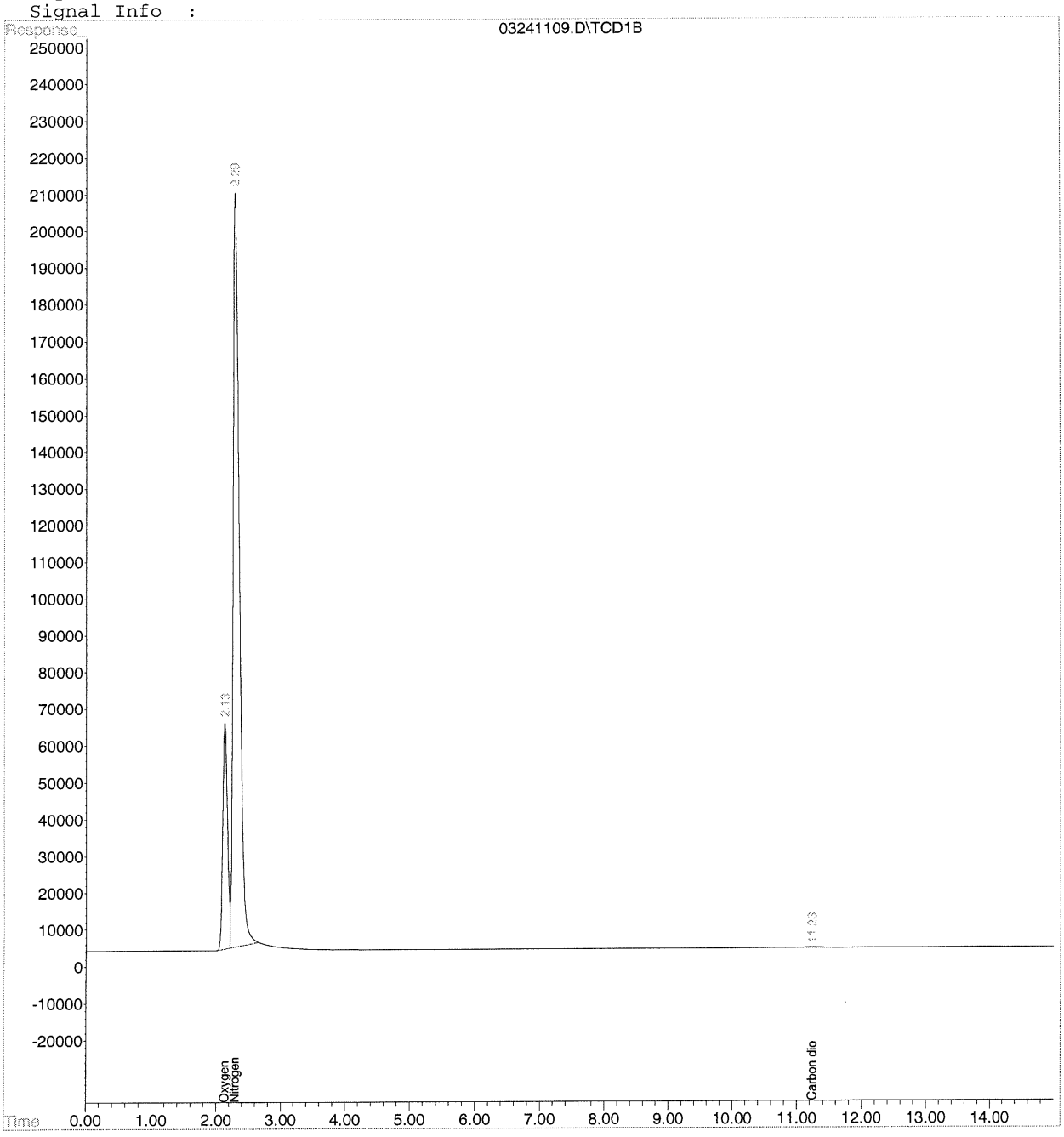
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241109.D Vial: 1
Acq On : 25 Mar 2011 4:30 am Operator:
Sample : 1103389-034a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241110.D Vial: 1
Acq On : 25 Mar 2011 4:54 am Operator:
Sample : 1103389-035a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	3099268	19.827	%
2)	Nitrogen	2.29	13550161	77.871	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	32125	0.157	%

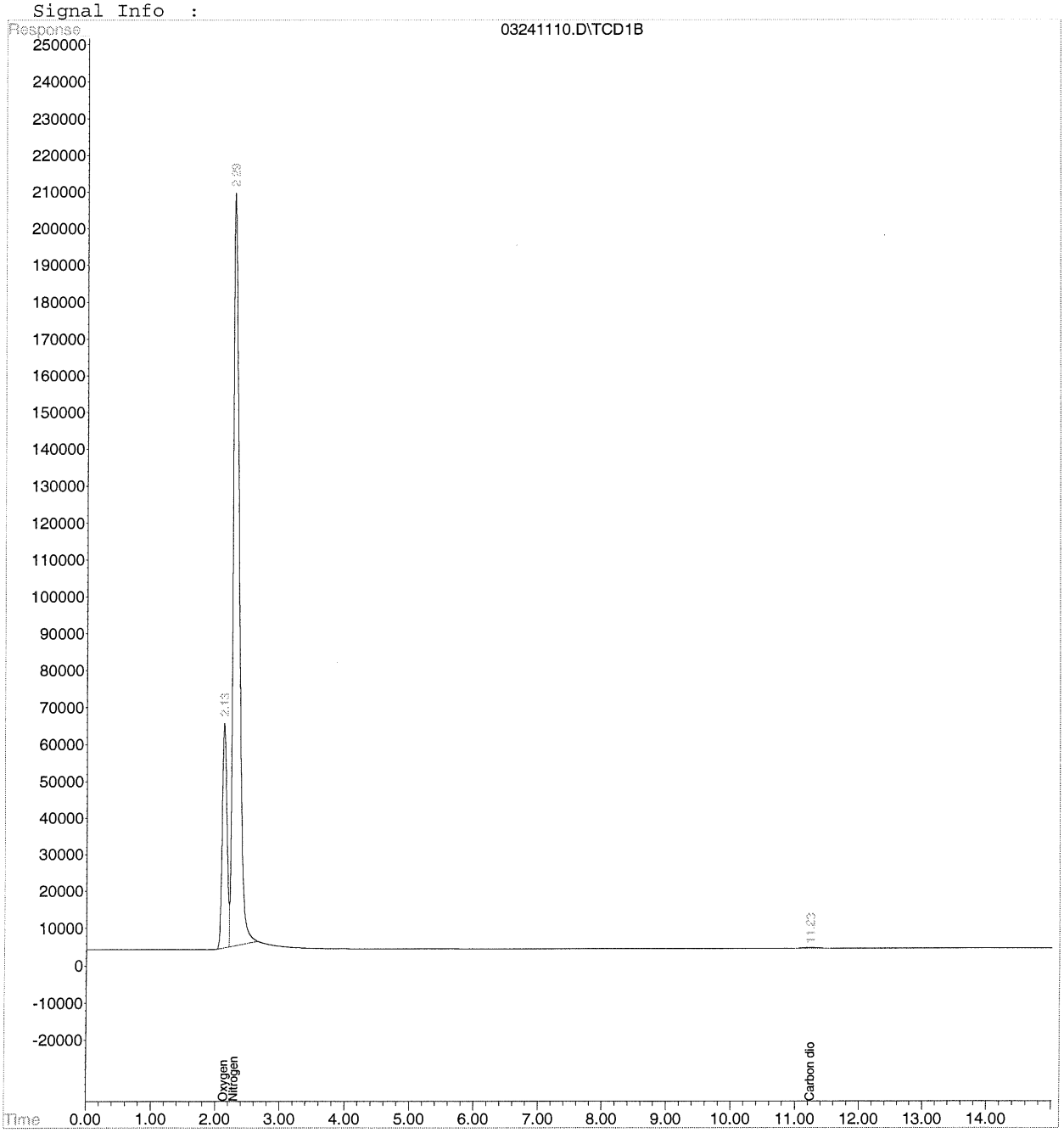
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241110.D Vial: 1
Acq On : 25 Mar 2011 4:54 am Operator:
Sample : 1103389-035a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241111.D Vial: 1
Acq On : 25 Mar 2011 5:16 am Operator:
Sample : 1103389-036a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:03 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

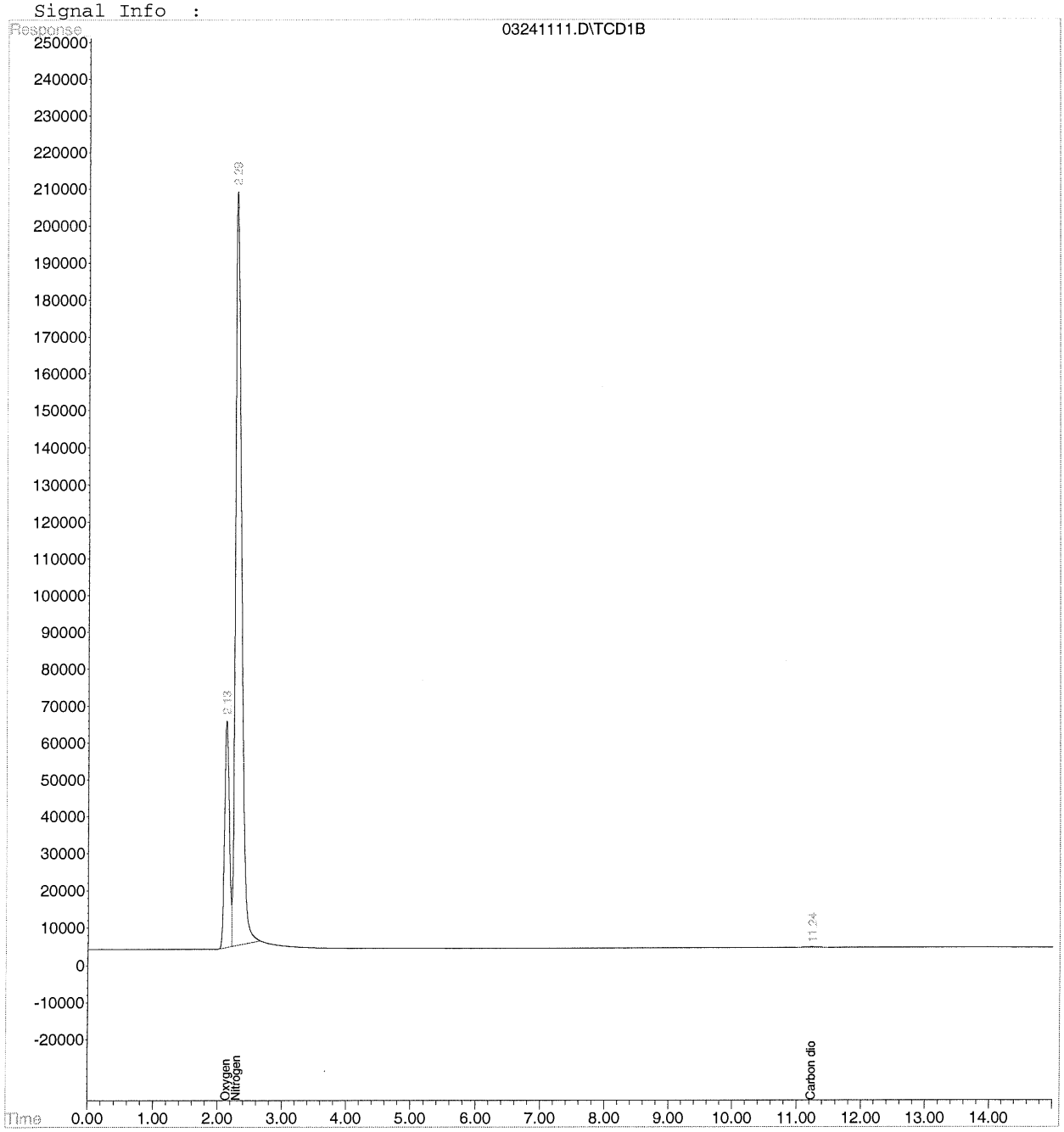
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	3111993	19.909	%
2)	Nitrogen	2.29	13514602	77.666	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	23793	0.116	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241111.D Vial: 1
Acq On : 25 Mar 2011 5:16 am Operator:
Sample : 1103389-036a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:03 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241112.D Vial: 1
Acq On : 25 Mar 2011 5:36 am Operator:
Sample : 1103389-037a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:03 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1918027	12.270	%
2)	Nitrogen	2.28	14502184	83.342	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	262588	1.283	%

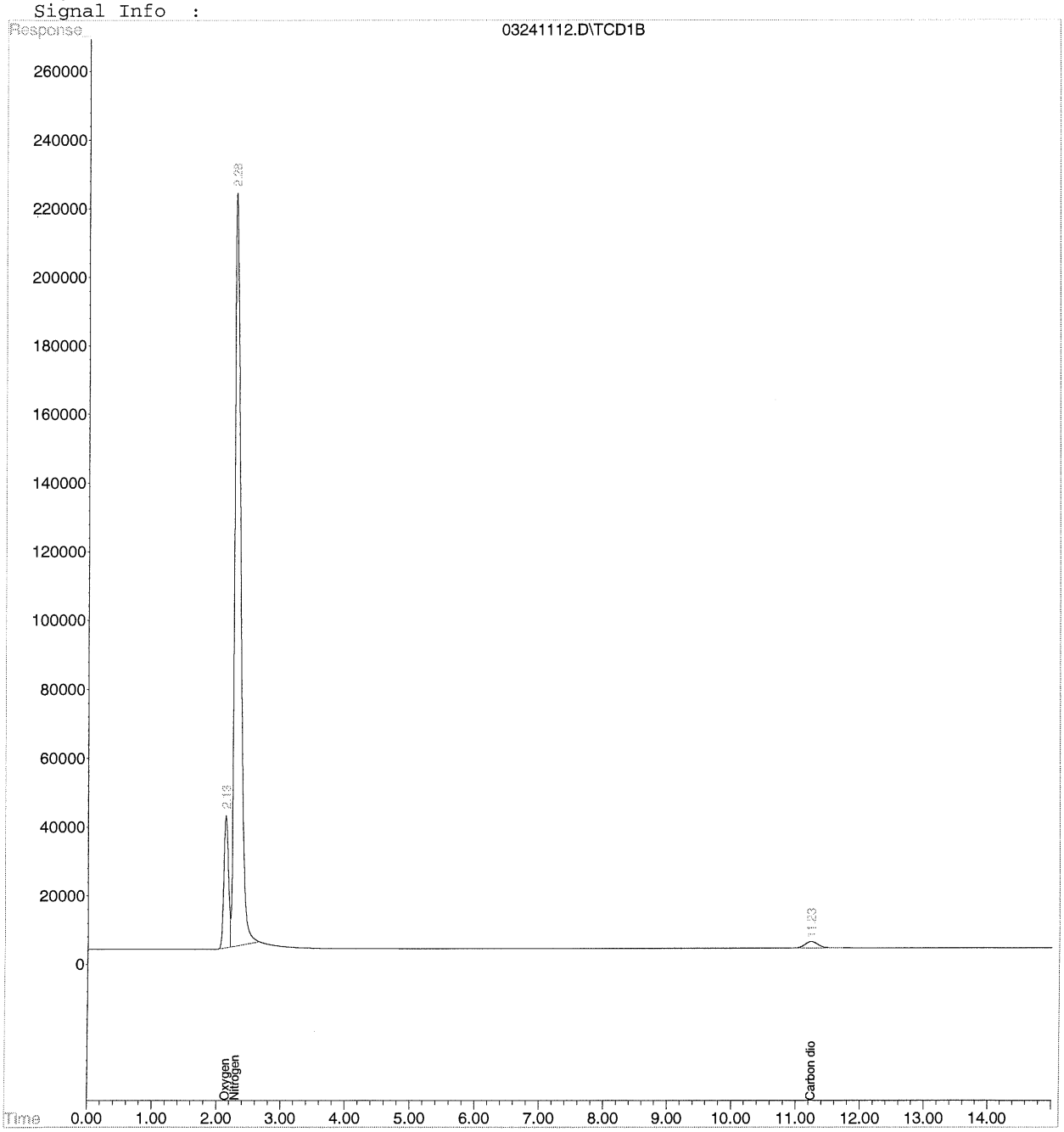
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241112.D Vial: 1
Acq On : 25 Mar 2011 5:36 am Operator:
Sample : 1103389-037a Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:03 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241113.D Vial: 1
Acq On : 25 Mar 2011 6:02 am Operator:
Sample : 1103389-037adup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 8:04 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.12	1930840	12.352 %
2)	Nitrogen	2.27	14598455	83.895 %
3)	Carbon Monoxide	0.00	0	N.D. %
4)	Methane	0.00	0	N.D. %
5)	Carbon dioxide	11.22	266248	1.301 %

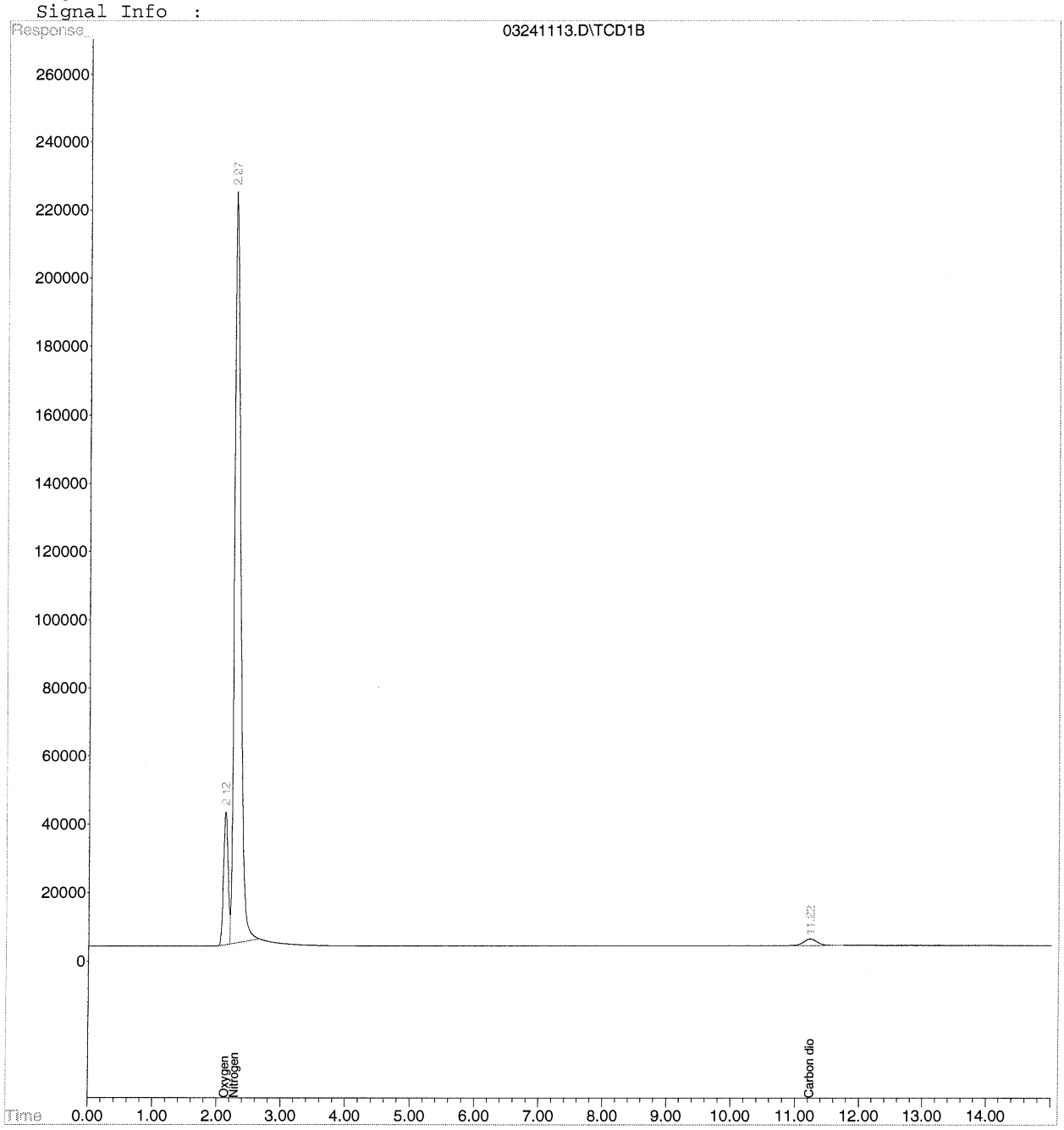
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241113.D Vial: 1
Acq On : 25 Mar 2011 6:02 am Operator:
Sample : 1103389-037adup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 8:04 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241114.D Vial: 1
Acq On : 25 Mar 2011 6:22 am Operator:
Sample : ccb Inst : GC/TCD
Misc : CCB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 7:58 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

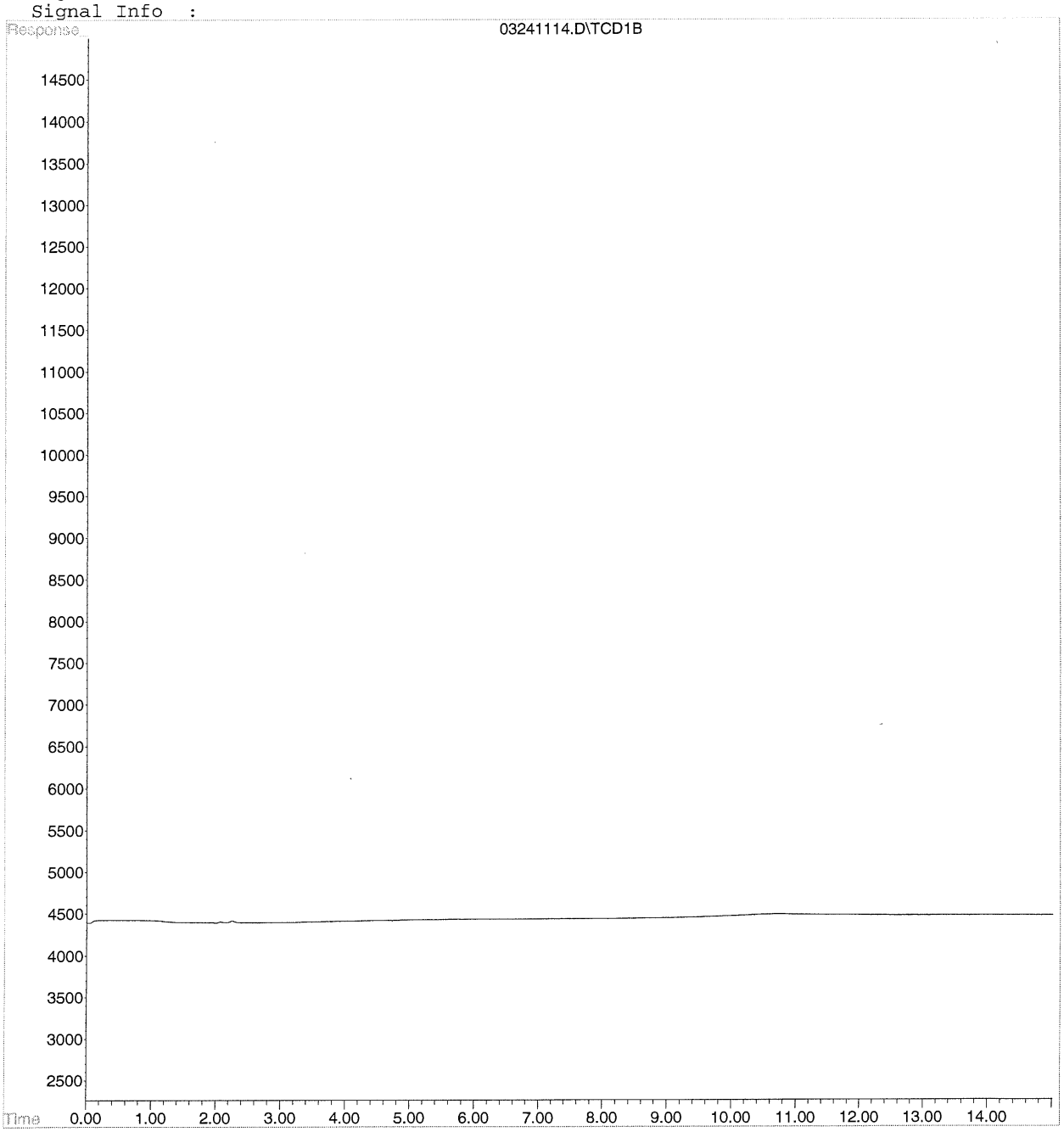
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241114.D Vial: 1
Acq On : 25 Mar 2011 6:22 am Operator:
Sample : ccb Inst : GC/TCD
Misc : CCB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 7:58 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032411D\03241115.D Vial: 1
Acq On : 25 Mar 2011 7:08 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.072	10.0	93	0.02
2	Nitrogen	1.390	1.349	2.9	118	0.02
3	Carbon Monoxide	0.140	0.137	2.1	120	0.01
4	Methane	0.090	0.086	4.4	118	-0.02
5	Carbon dioxide	0.300	0.283	5.7	99	-0.01

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032411D\03241115.D Vial: 1
Acq On : 25 Mar 2011 7:08 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:34:17 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241115.D Vial: 1
Acq On : 25 Mar 2011 7:08 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 7:51 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

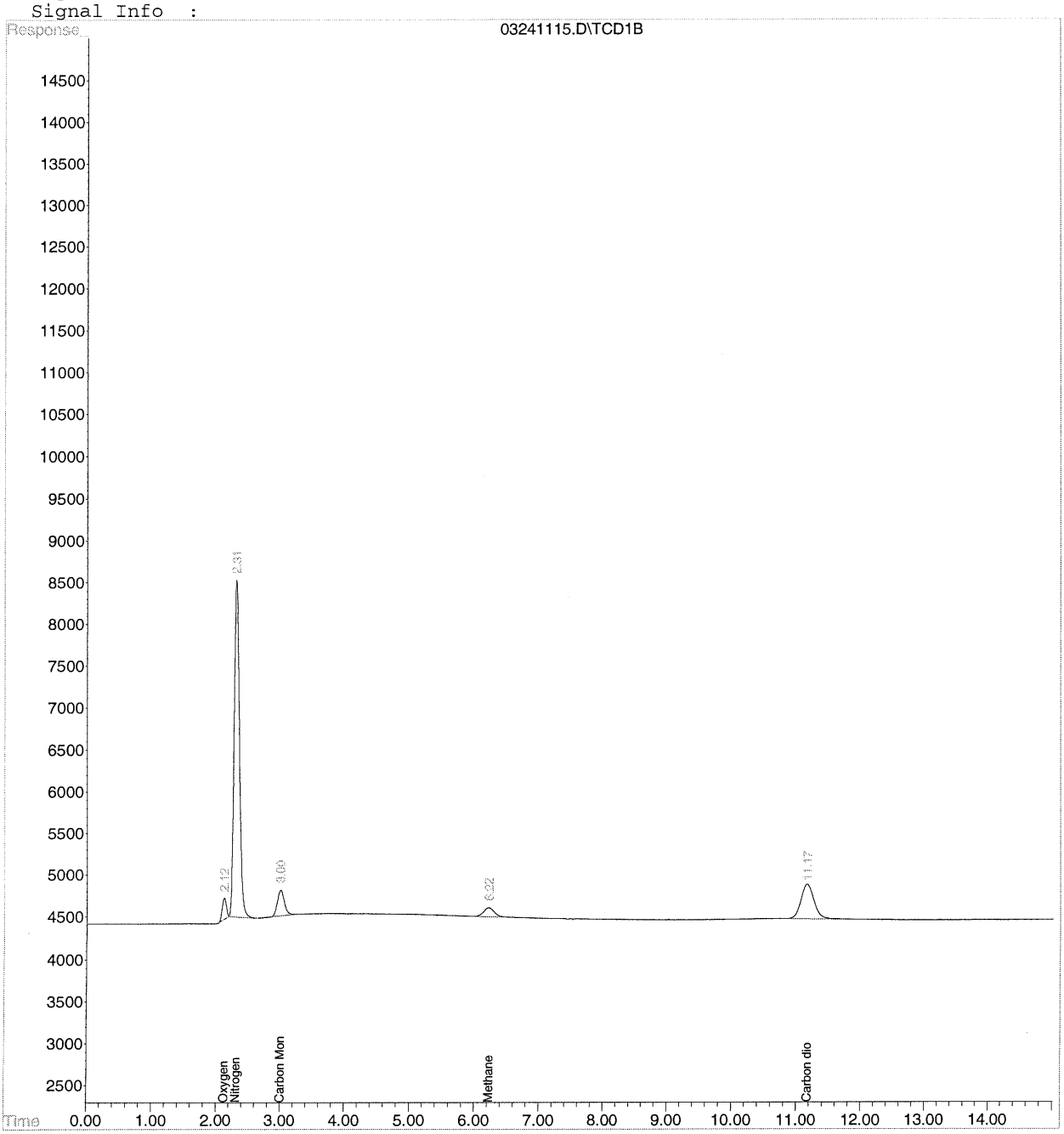
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.12	11185	0.072 %
2)	Nitrogen	2.31	234723	1.349 %
3)	Carbon Monoxide	3.00	22549	0.137 %
4)	Methane	6.22	11843	0.086 %
5)	Carbon dioxide	11.17	57964	0.283 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241115.D Vial: 1
Acq On : 25 Mar 2011 7:08 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 7:51 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032411D\03241116.D Vial: 1
Acq On : 25 Mar 2011 9:18 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.595	-3.8	0	0.03
2	Nitrogen	2.500	2.867	-14.7	0	0.03
3	Carbon Monoxide	2.500	2.614	-4.6	0	0.02
4	Methane	2.000	1.954	2.3	0	-0.02
5	Carbon dioxide	2.500	2.291	8.4	0	0.00

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032411D\03241116.D Vial: 1
Acq On : 25 Mar 2011 9:18 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:34:34 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032411D\03241116.D Vial: 1
Acq On : 25 Mar 2011 9:18 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 25 9:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.13	405614	2.595 %
2)	Nitrogen	2.32	498956	2.867 %
3)	Carbon Monoxide	3.01	429747	2.614 %
4)	Methane	6.23	269107	1.954 %
5)	Carbon dioxide	11.18	468942	2.291 %

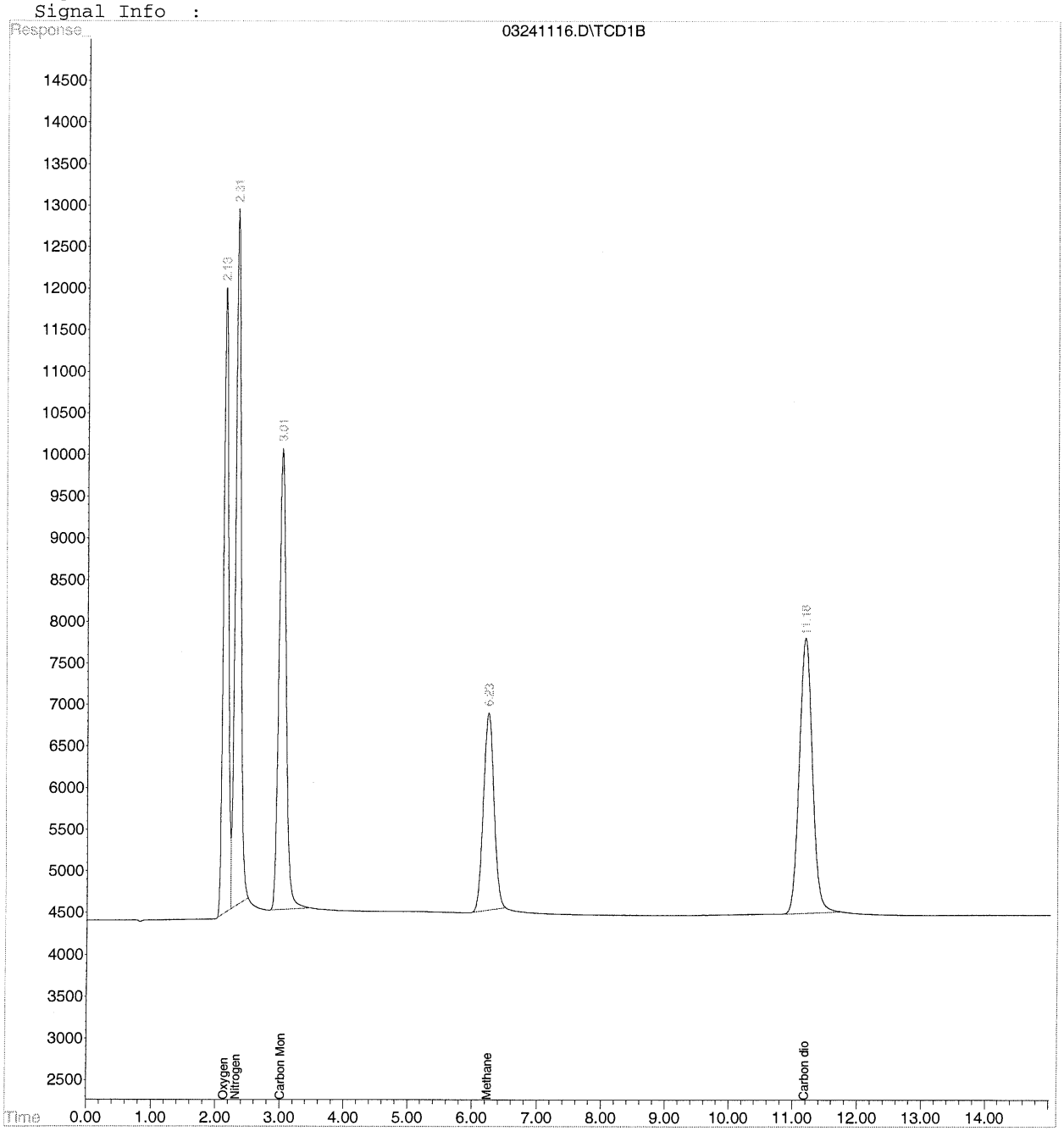
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032411D\03241116.D Vial: 1
Acq On : 25 Mar 2011 9:18 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 25 9:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\030511

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	03051101.d	1.	icb	ICB ASTM-D2504	5 Mar 2011 01:04
2	2	03051102.D	1.	STD 100%	ICAL ASTM-D2504	5 Mar 2011 01:52
3	3	03051103.D	1.	STD 80%	ICAL ASTM-D2504	5 Mar 2011 02:17
4	4	03051104.D	1.	STD 60%	ICAL ASTM-D2504	5 Mar 2011 02:43
5	5	03051105.D	1.	STD 40%	ICAL ASTM-D2504	5 Mar 2011 03:10
6	6	03051106.D	1.	STD 20%	ICAL ASTM-D2504	5 Mar 2011 03:31
7	10	03051107.d	1.	STD 2%	ICAL ASTM-D2504	5 Mar 2011 05:40
8	1	03051108.d	1.	N2 100%	ICAL ASTM-D2504	5 Mar 2011 06:29
9	1	03051109.d	1.	O2 50%	ICAL ASTM-D2504	5 Mar 2011 07:41
10	1	03051110.d	1.	ICV STD 1-2	ICAL ASTM-D2504	5 Mar 2011 08:05
11	2	03051111.D	1.	OFF	ICAL ASTM-D2504	5 Mar 2011 08:33

Response Factor Report GC/TCD

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011

Calibration Files
1 =03051102.D 2 =03051103.D 3 =03051104.D
4 =03051105.D 5 =03051106.D 6 =03051107.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	Oxygen	1.450	1.444	1.427	1.365	1.324	1.502	1.440	E5	5.59
2)	Nitrogen	1.748	1.695	1.678	1.586	1.522	1.436	1.635	E5	7.62
3)	Carbon Monoxide	1.690	1.628	1.621	1.517	1.472	1.346	1.546	E5	8.17
4)	Methane	1.422	1.364	1.344	1.267	1.212	1.113	1.287	E5	8.76
5)	Carbon dioxide	2.121	2.009	2.012	1.874	1.813	1.946	1.963	E5	5.60

(#) = Out of Range ### Number of calibration levels exceeded format ###

030511.M Tue Mar 29 09:52:14 2011

Compound List Report GC/TCD

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
Total Cpnds : 5

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1		Oxygen	2.10	1.000	LO	A	R
2		Nitrogen	2.29	1.000	LO	A	R
3		Carbon Monoxide	2.99	1.000	LO	A	R
4		Methane	6.25	1.000	LO	A	R
5		Carbon dioxide	11.18	1.000	LO	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

030511.M Tue Mar 29 09:53:41 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051101.D Vial: 2
Acq On : 5 Mar 2011 1:04 am Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 1:19 2011 Quant Results File: TCD.RES

Quant Method : C:\HPCHEM\2\METHODS\TCD.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 05 02:24:54 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

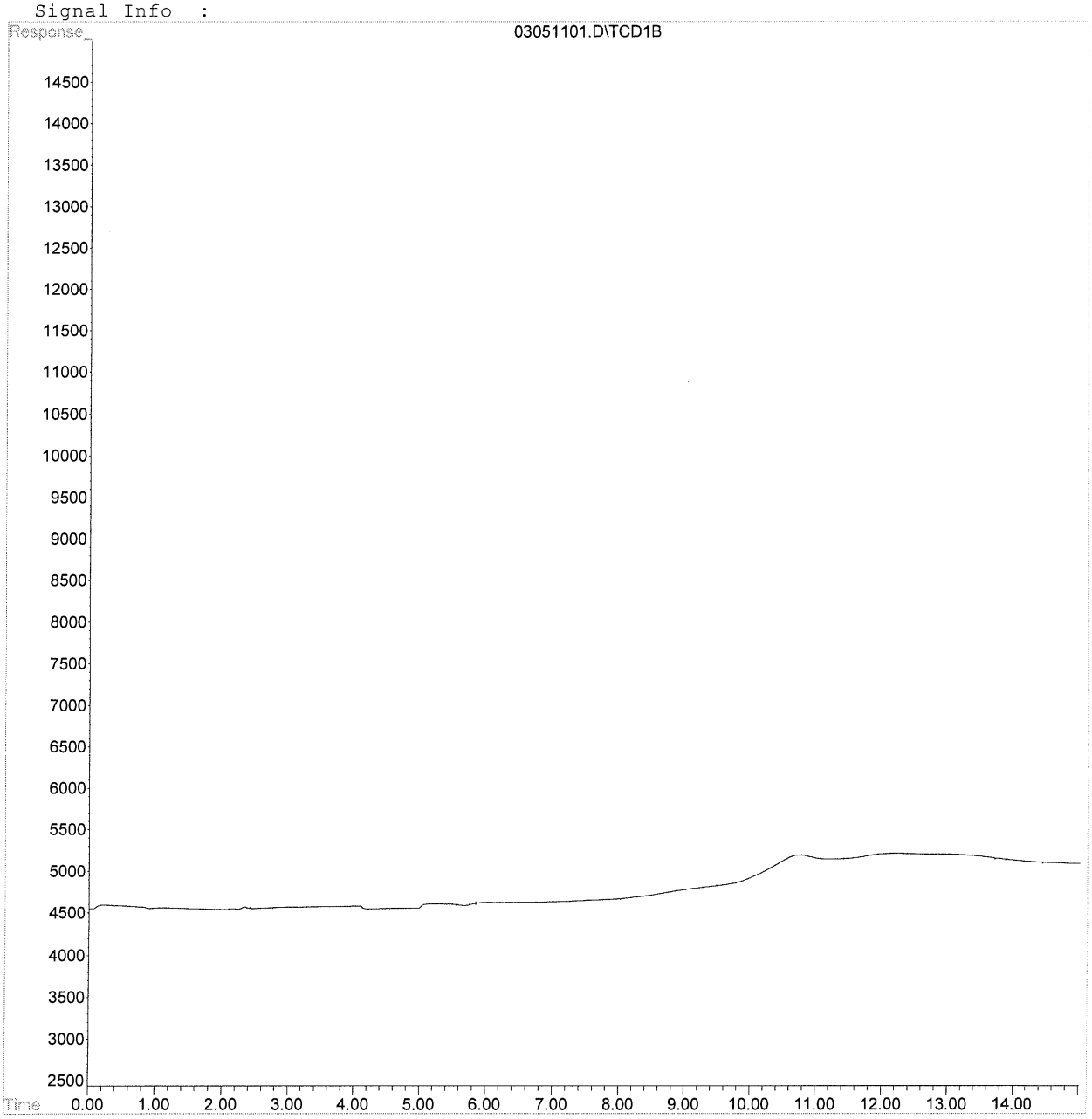
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Hydrogen	0.00	0	N.D.	%
2)	Oxygen	0.00	0	N.D.	%
3)	Nitrogen	0.00	0	N.D.	%
4)	Carbon Monoxide	0.00	0	N.D.	%
5)	Methane	0.00	0	N.D.	%
6)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051101.D Vial: 2
Acq On : 5 Mar 2011 1:04 am Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 1:19 2011 Quant Results File: TCD.RES

Quant Method : C:\HPCHEM\2\METHODS\TCD.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 05 02:24:54 2011
Response via : Single Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051102.D Vial: 2
Acq On : 5 Mar 2011 1:52 am Operator:
Sample : STD 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 2:11 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	2.13	581508	4.010	%
2)	Nitrogen	2.29	12144985	69.480	%
3)	Carbon Monoxide	3.02	1184988	7.010	%
4)	Methane	6.25	639702	4.500	%
5)	Carbon dioxide	11.16	3181324	15.000	%

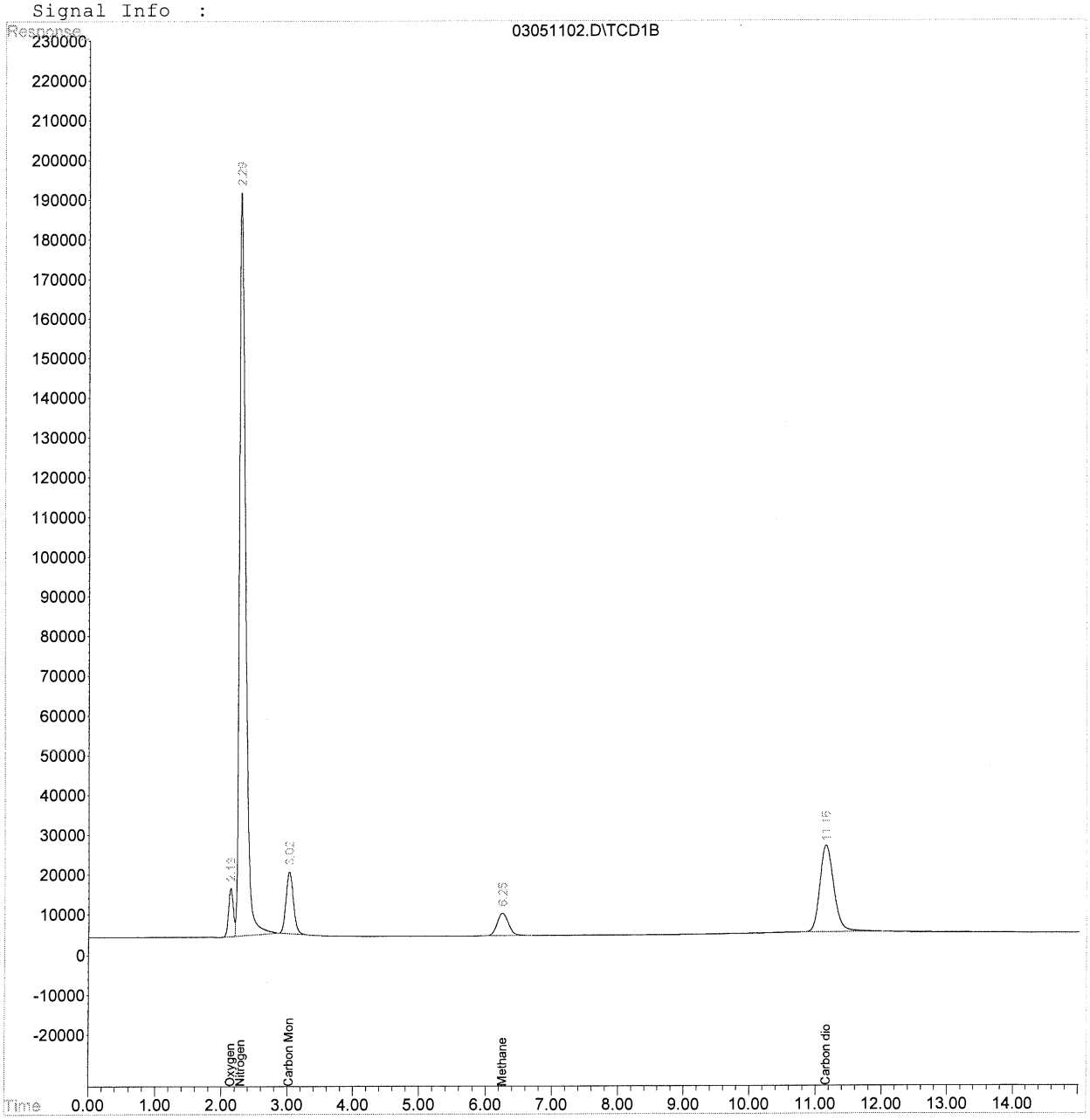
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051102.D Vial: 2
Acq On : 5 Mar 2011 1:52 am Operator:
Sample : STD 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 2:11 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051103.D Vial: 3
Acq On : 5 Mar 2011 2:17 am Operator:
Sample : STD 80% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 2:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	2.13	463310	3.195	%
2)	Nitrogen	2.30	9420045	53.891	%
3)	Carbon Monoxide	3.02	913157	5.402	%
4)	Methane	6.24	491119	3.455	%
5)	Carbon dioxide	11.16	2411152	11.369	%

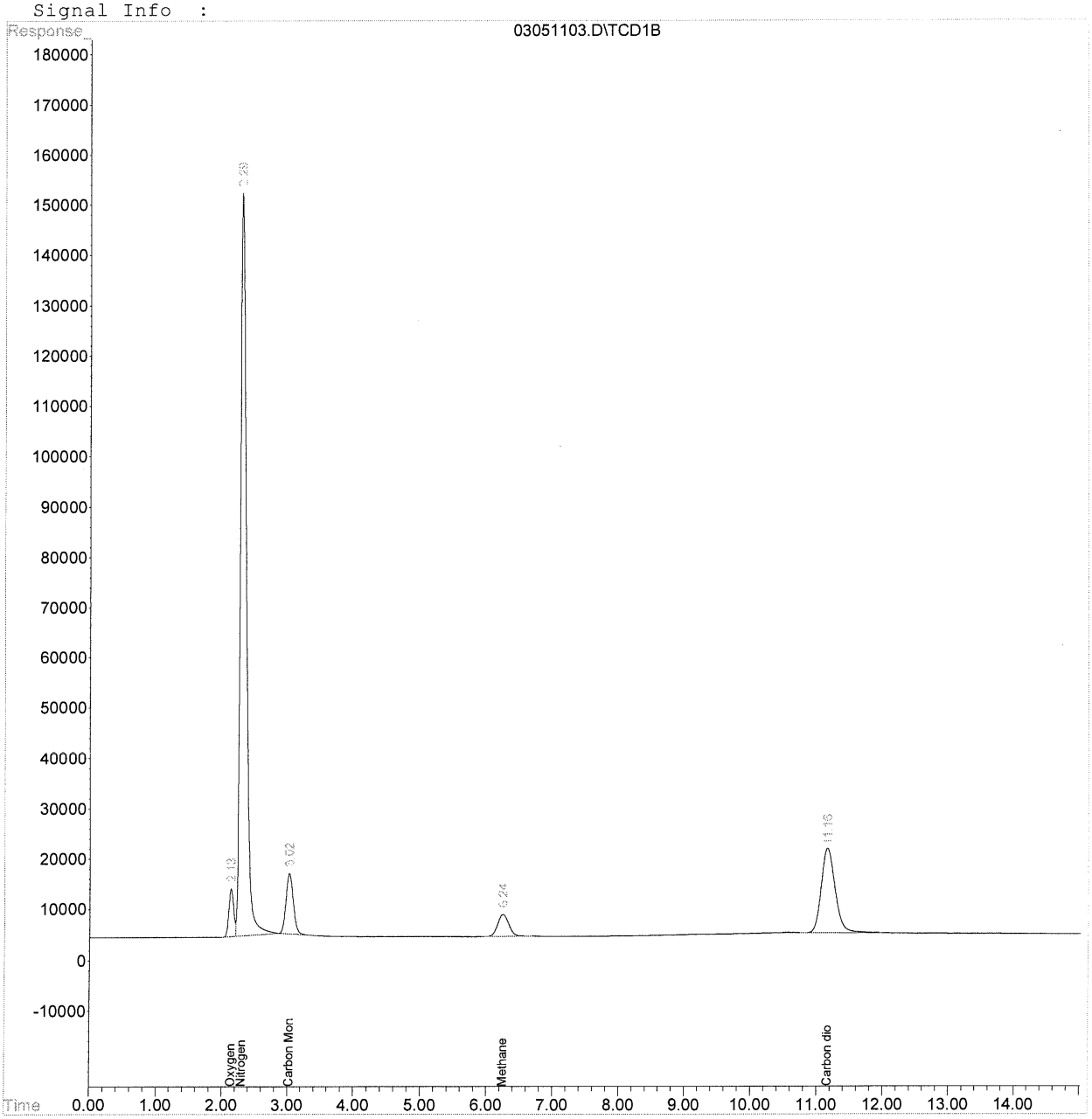
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051103.D Vial: 3
Acq On : 5 Mar 2011 2:17 am Operator:
Sample : STD 80% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 2:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051104.D Vial: 4
Acq On : 5 Mar 2011 2:43 am Operator:
Sample : STD 60% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 3:05 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	343431	2.368	%
2)	Nitrogen	2.30	6993706	40.010	%
3)	Carbon Monoxide	3.01	681654	4.032	%
4)	Methane	6.24	362878	2.553	%
5)	Carbon dioxide	11.16	1810908	8.538	%

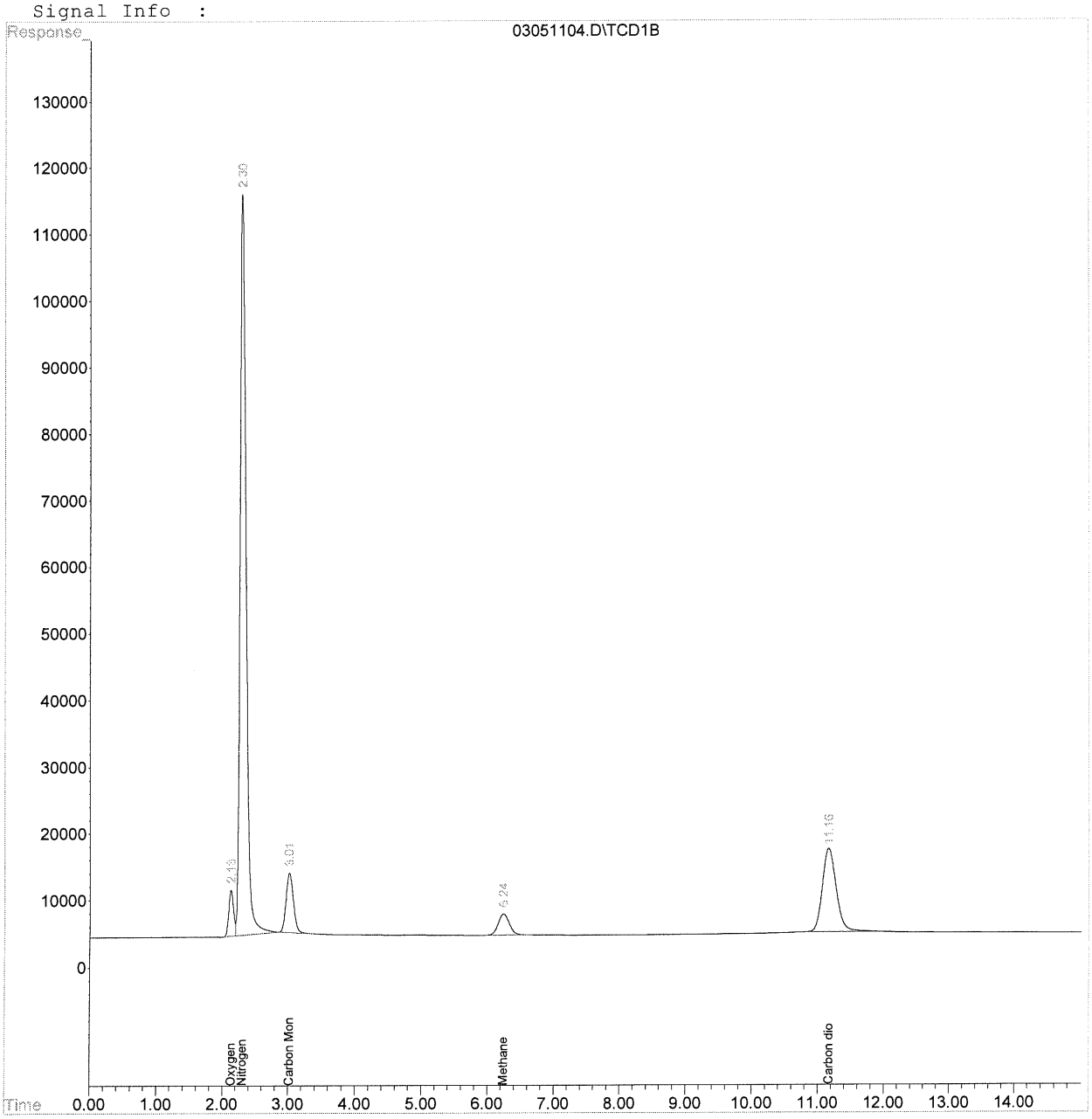
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051104.D Vial: 4
Acq On : 5 Mar 2011 2:43 am Operator:
Sample : STD 60% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 3:05 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051105.D Vial: 5
Acq On : 5 Mar 2011 3:10 am Operator:
Sample : STD 40% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 3:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

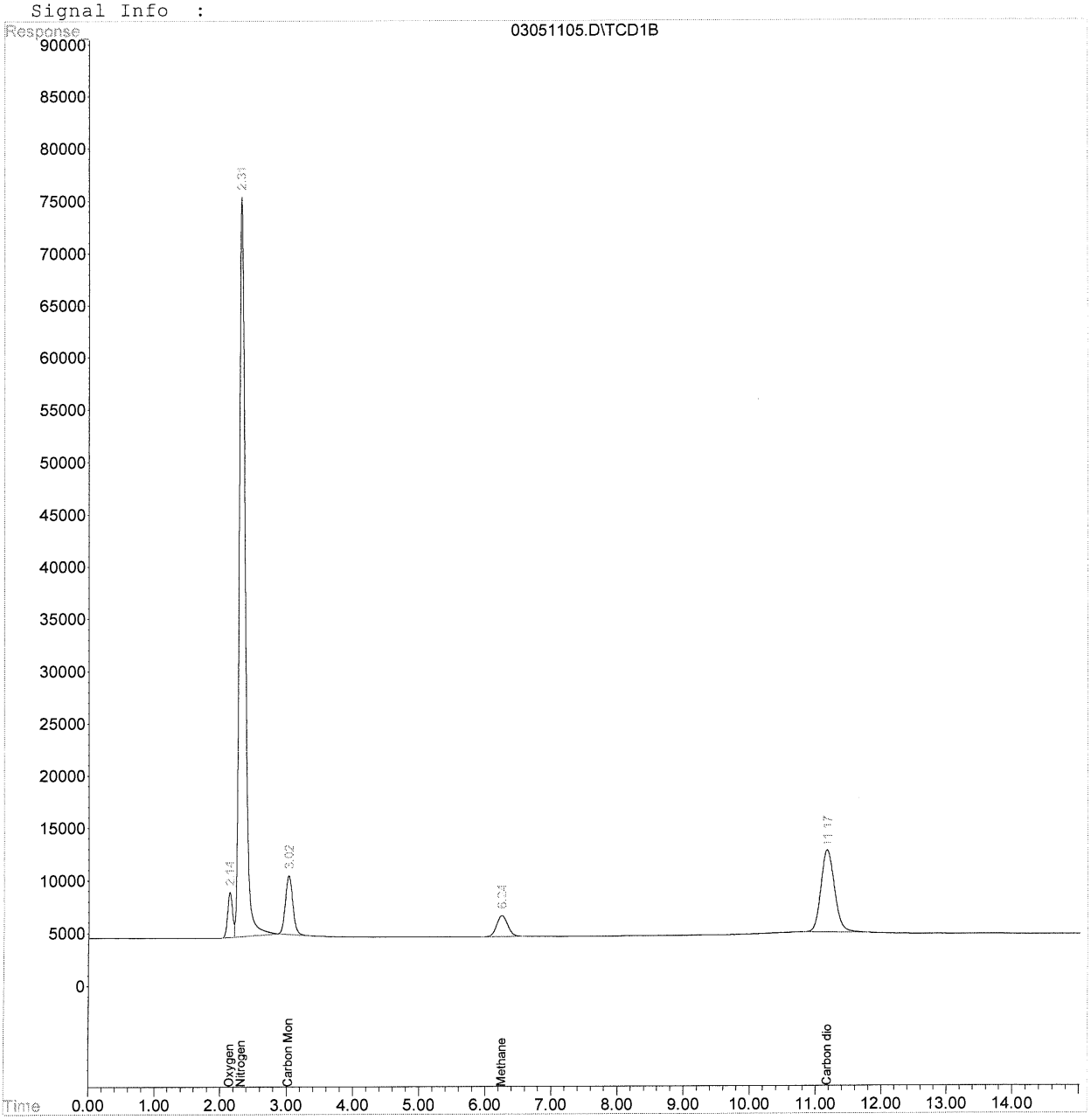
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	218905	1.510 %
2)	Nitrogen	2.31	4406717	25.210 %
3)	Carbon Monoxide	3.02	425448	2.517 %
4)	Methane	6.24	227971	1.604 %
5)	Carbon dioxide	11.17	1124243	5.301 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051105.D Vial: 5
Acq On : 5 Mar 2011 3:10 am Operator:
Sample : STD 40% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 3:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051106.D Vial: 6
Acq On : 5 Mar 2011 3:31 am Operator:
Sample : STD 20% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 3:47 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.14	106219	0.732	%
2)	Nitrogen	2.33	2115642	12.103	%
3)	Carbon Monoxide	3.03	206340	1.221	%
4)	Methane	6.25	109069	0.767	%
5)	Carbon dioxide	11.18	543812	2.564	%

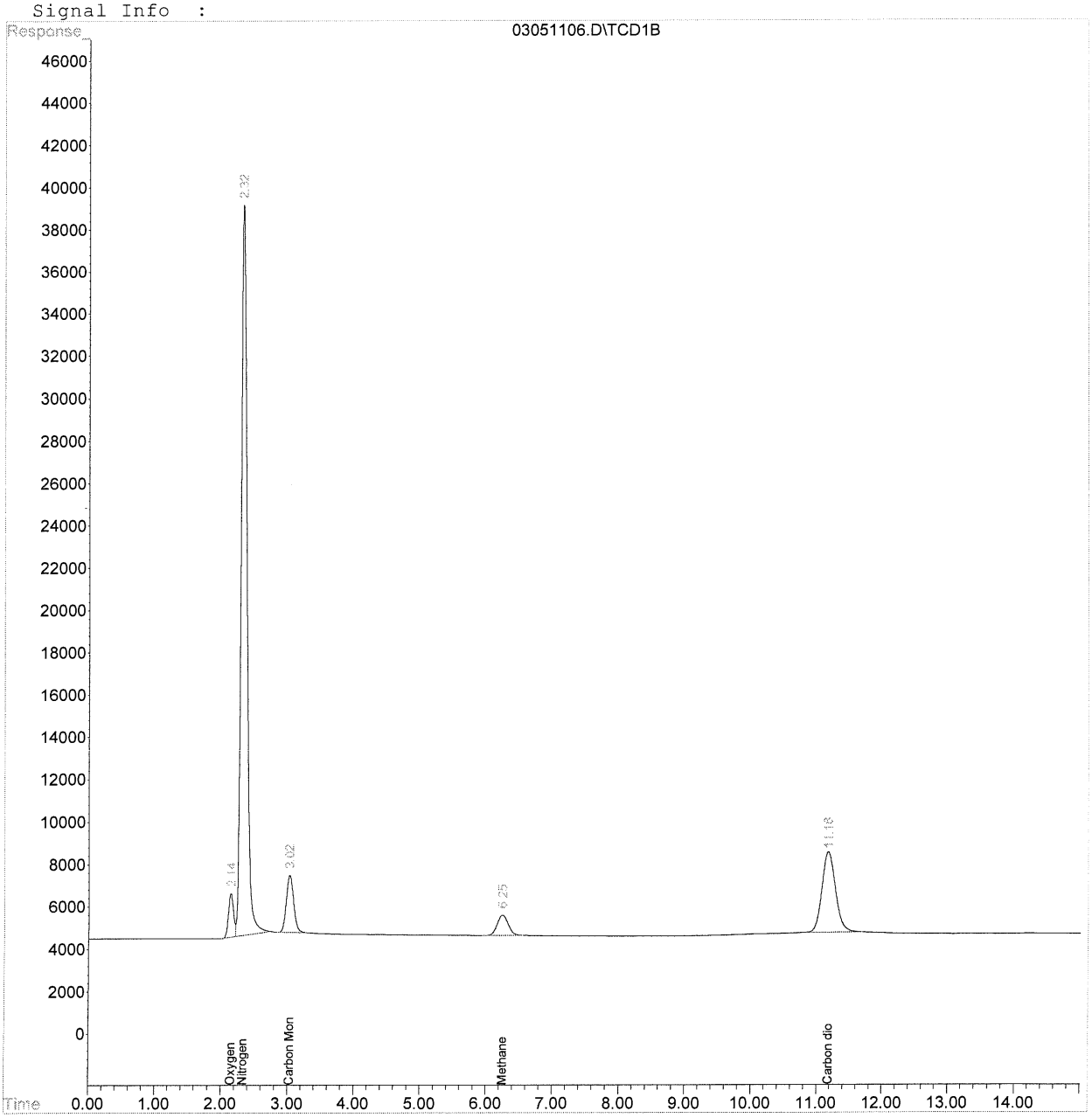
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051106.D Vial: 6
Acq On : 5 Mar 2011 3:31 am Operator:
Sample : STD 20% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 3:47 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051107.D Vial: 10
Acq On : 5 Mar 2011 5:40 am Operator:
Sample : STD 2% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 6:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 04:19:26 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.14	12019	0.084	%
2)	Nitrogen	2.33	199576	1.170	%
3)	Carbon Monoxide	3.02	18840	0.115	%
4)	Methane	6.25	10019	0.073	%
5)	Carbon dioxide	11.18	58393	0.285	%

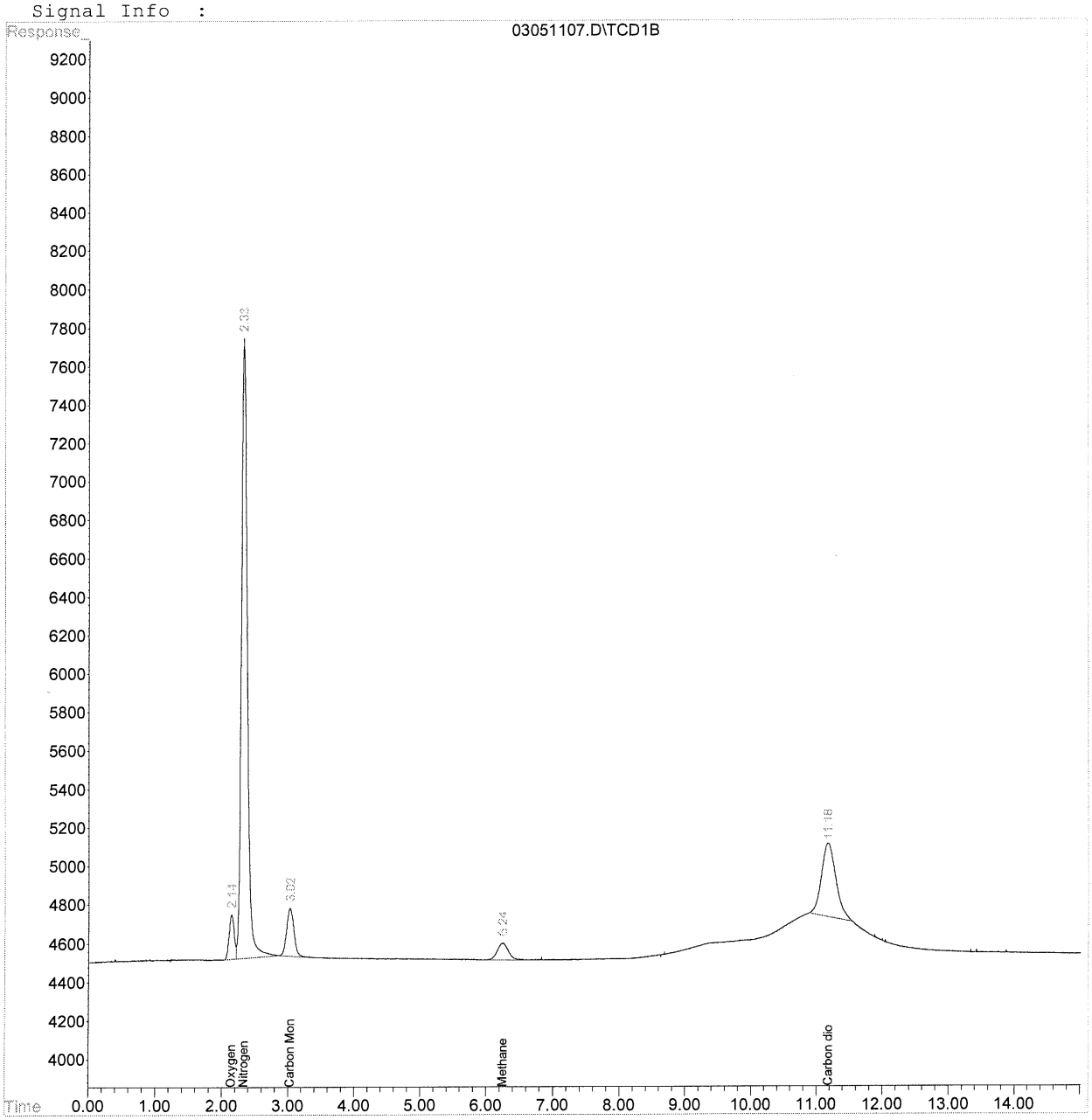
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051107.D Vial: 10
Acq On : 5 Mar 2011 5:40 am Operator:
Sample : STD 2% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 6:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 04:19:26 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051108.D Vial: 1
Acq On : 5 Mar 2011 6:29 am Operator:
Sample : N2 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 7:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	2.25	17773276	104.238	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

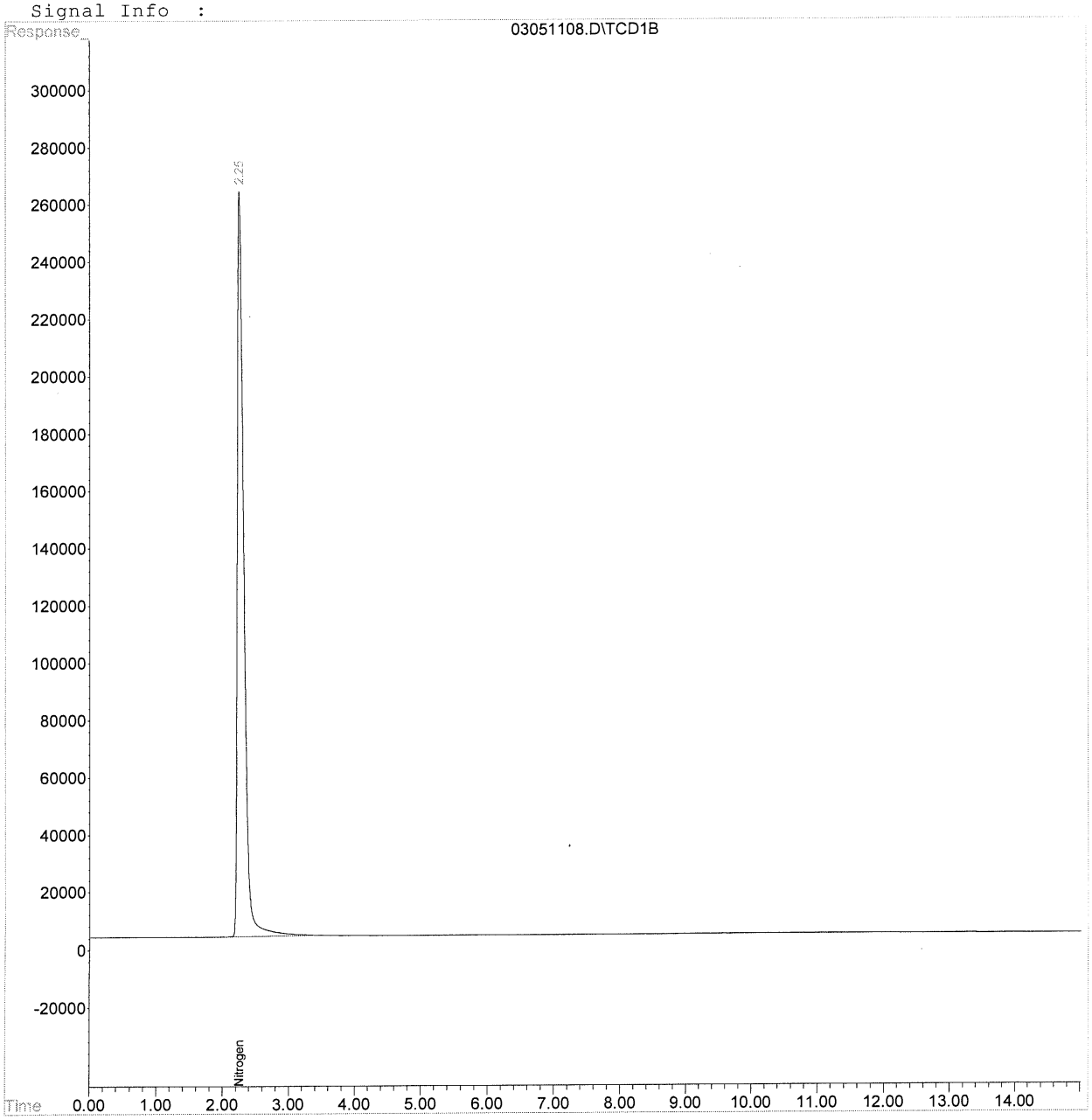
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051108.D Vial: 1
Acq On : 5 Mar 2011 6:29 am Operator:
Sample : N2 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 7:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051109.D Vial: 1
Acq On : 5 Mar 2011 7:41 am Operator:
Sample : O2 50% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 7:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.11	7824603	54.481	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

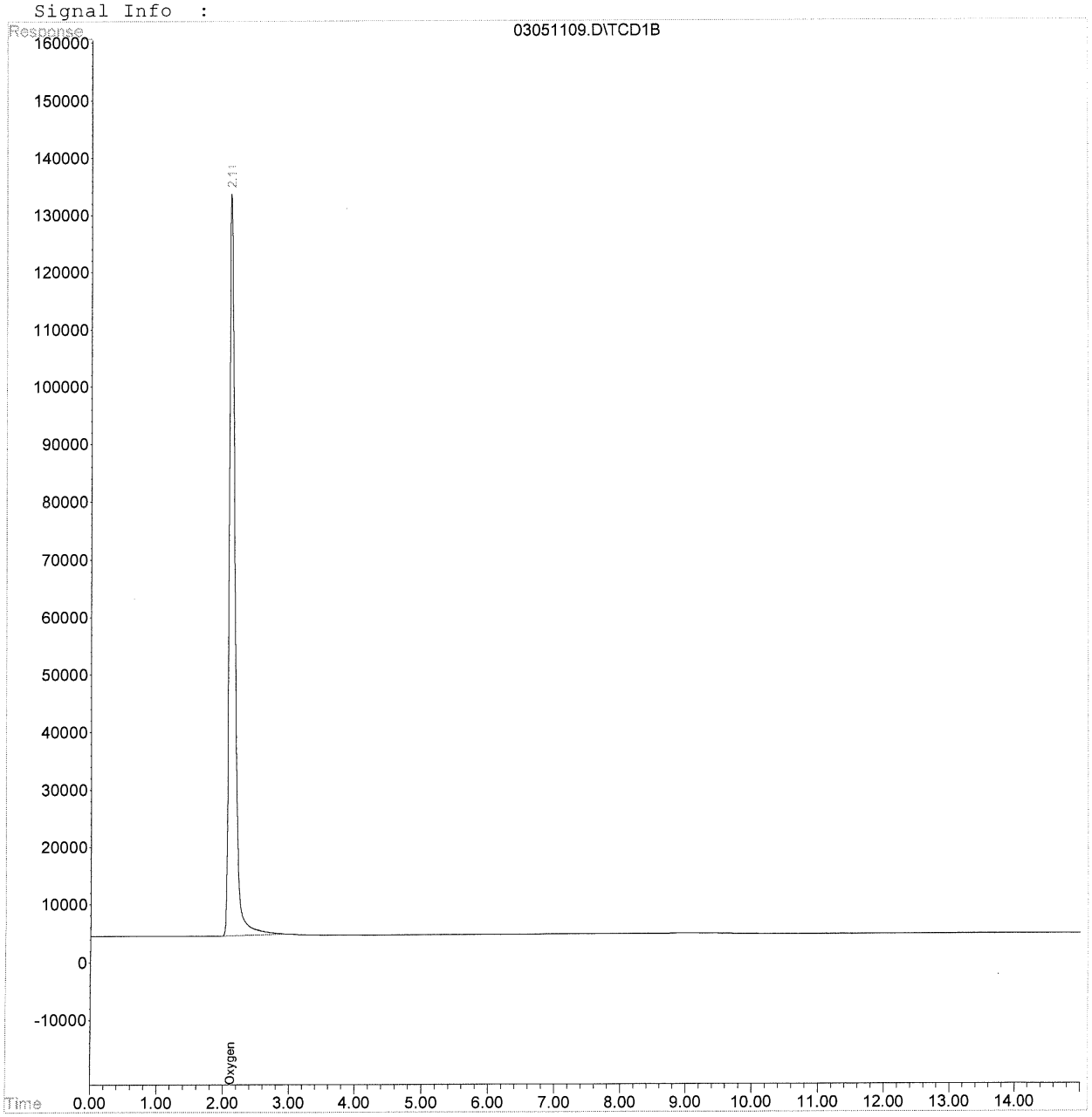
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051109.D Vial: 1
Acq On : 5 Mar 2011 7:41 am Operator:
Sample : O2 50% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 7:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.445	2.2	0	0.04
2	Nitrogen	2.500	2.865	-14.6	0	0.04
3	Carbon Monoxide	2.500	2.500	0.0	0	0.03
4	Methane	2.000	2.002	-0.1	0	0.00
5	Carbon dioxide	2.500	2.350	6.0	0	0.00

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:31:06 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Apr 17 14:30 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

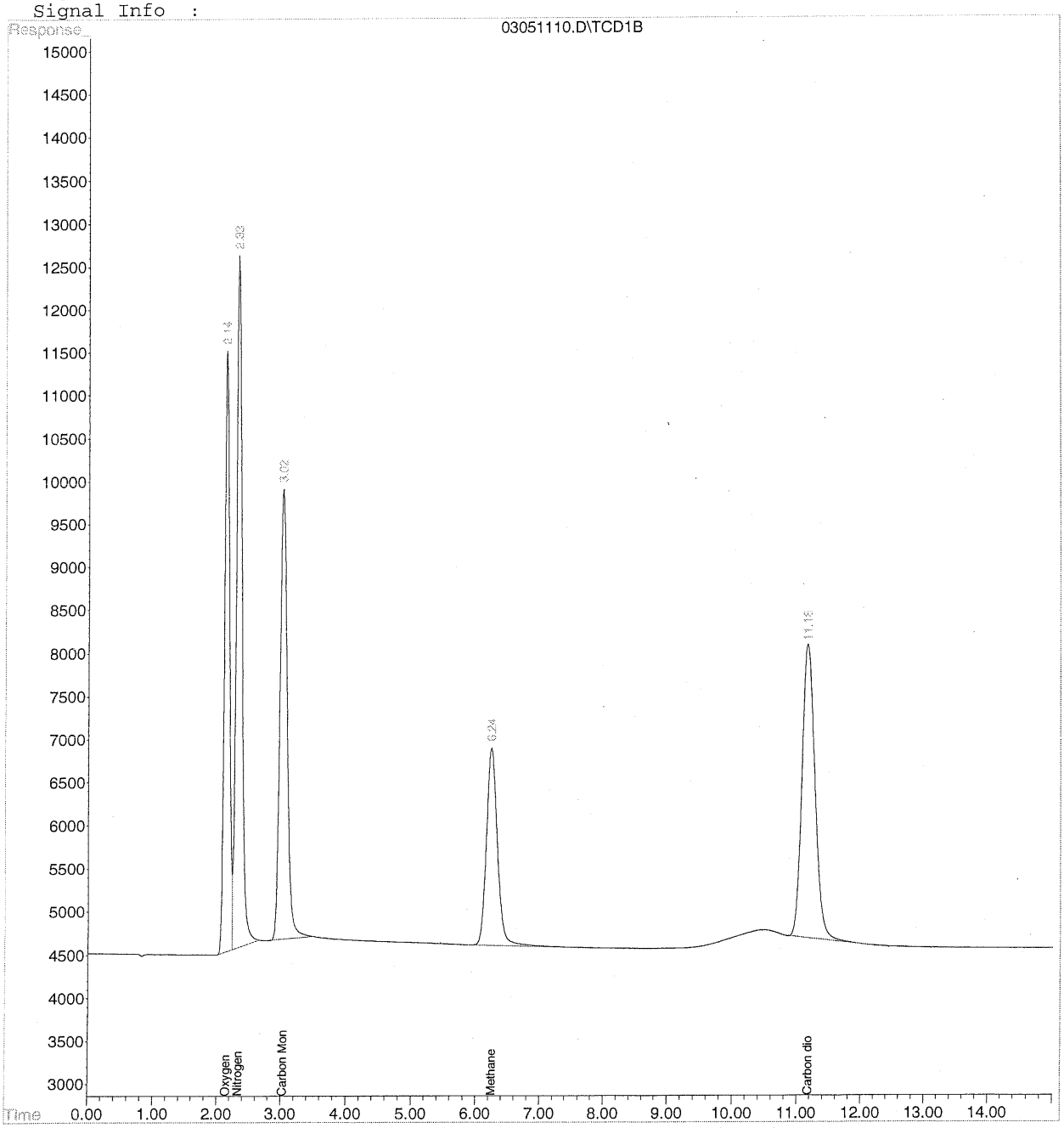
Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	382173	2.445 %
2)	Nitrogen	2.33	498448	2.865 %
3)	Carbon Monoxide	3.02	411158	2.500 %
4)	Methane	6.25	275619	2.002 %
5)	Carbon dioxide	11.18	481001	2.350 %

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Apr 17 14:30 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :