0065387

SAF-B03-005
100N Ancillary Facilities & 190-DR Other Solid Sampling for ERDF Waste Designation FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Renee Nielson X5-50 __NB- 5/26/05__
INITIAL/DATE

COMMENTS:

SDG W04629 SAF-B03-005

Rad only X Chem only Rad & Chem

X Complete Partial

Sample Location/Waste Site: 1900-N Tanks

RECEIVED
JUN 20 2005
EDMC

Original Chain of Custody Documentation

W04629

HSD220226

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B03-005-114	Page 1 of 1

Collector: Renee Nielson / Eric Hokanson	Company Contact: Renee Nielson	Telephone No.: 373-3564	Project Coordinator: KESSNER, JH
Price Code: 9K	Data Turnaround: ~~15 Days~~ 24 Hours RJN 4/21/05	Air Quality	
Project Designation: 100N Ancillary Facilities & 190-DR Other Solid Sampling fo	Sampling Location: 1900-N Tanks	SAF No.: B03-005	
Ice Chest No.: AFS-04-046	Field Logbook No.: EL-1516-4	COA: R1900N13P0	Method of Shipment: Federal Express
Shipped To: STL Knoxville ~~EBERLINE SERVICES / LIONVILLE~~ RJN 4/21/05	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: 8457 9149 9821

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

None

Preservation	Cool 4C											
Type of Container	Tedlar Bag											
No. of Container(s)	1											
Volume	1L											
SAMPLE ANALYSIS	VOA - ~~8260A~~ ~~(TCL)~~ RJN 4/21/05 By TO-14 and Light gas by ASTM D 1946											

RJN 4/21/05

Sample No.	Matrix *	Sample Date	Sample Time									
J032Y3	~~OTHER SOLID~~ Gaseous	4/21/05	1200	X								

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: ERC / R. Nielson 4/21/05	Date/Time: 1530	Received By/Stored In: Fed Ex	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In: Andrew D. Flores	Date/Time: 4/22/05 0530
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS RJN 4/21/05

Contact Joan Kessner (509) 375-4688 ~~for requested analysis~~ with questions.

Custody Seals Intact
Rec'd Temp. Ambient
1 cooler / FEDEX
TR 8457 9149 9821
ADF 04-22-05

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (03/01/2002)

W04629 Sample Data Summary **1**

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Standards Data 168
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Miscellaneous Data 192

Sample Receipt Documentation **197**

Total Number of Pages **200**

SEVERN TRENT STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

CERTIFICATE OF ANALYSIS

Bechtel Hanford, Inc.
3350 George Washington Way
Richland, WA 99352

May 16, 2005

Attention: Joan Kessner

SAF Number	:	B03-005
Date Samples Received	:	April 22, 2005
Number of Samples	:	One (1)
Sample Type	:	Air
Data Deliverable	:	45 Day Data Package

I. Introduction

One (1) air sample was received on April 22, 2005 by the STL Knoxville Laboratory for analysis. Upon receipt, the samples were assigned the following laboratory ID number to correspond with the Bechtel Hanford, Inc. (BHI) specific ID:

STLKL ID#	BHI ID#	MATRIX	DATE OF RECEIPT
G803C	J032Y3	Air	04/22/05

II. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information and analytical results.

The requested analysis was:

Volatile Organics by TO-15
Fixed Gases by D1946/E260

SEVERN TRENT STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

III. Quality Control

The dilution factor reported on the sample result form represents a combination of factors (such as canister dilution, bench dilution, split factor, etc.) used to adjust the reporting limits and method detection limits.

IV. Comments

The original chain of custody documentation is included with this report.

After analysis in STL Knoxville, the sample was shipped to STL Los Angeles for volatile testing by method TO-15

Unless otherwise noted, all holding times and QC criteria were met. The test results shown in this report meet all applicable NELAC requirements. Any exceptions are noted below.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Jamie McKinney
Project Manager

Sample Data Summary

Bechtel Hanford, Inc.

Client Sample ID: J032Y3

GC/MS Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AC **Matrix.....:** AIR
Date Sampled...: 04/21/05 **Date Received..:** 04/22/05
Prep Date.....: 04/26/05 **Analysis Date..:** 04/26/05
Prep Batch #...: 5116511
Dilution Factor: 108.3 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	220	ppb(v/v)
Chloromethane	ND	430	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	220	ppb(v/v)
Vinyl chloride	ND	220	ppb(v/v)
Bromomethane	ND	220	ppb(v/v)
Chloroethane	ND	430	ppb(v/v)
Trichlorofluoromethane	ND	220	ppb(v/v)
1,1-Dichloroethene	ND	220	ppb(v/v)
Carbon disulfide	ND	1100	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	220	ppb(v/v)
Acetone	ND	1100	ppb(v/v)
Methylene chloride	ND	220	ppb(v/v)
trans-1,2-Dichloroethene	ND	220	ppb(v/v)
1,1-Dichloroethane	ND	220	ppb(v/v)
Vinyl acetate	ND	1100	ppb(v/v)
cis-1,2-Dichloroethene	ND	220	ppb(v/v)
2-Butanone (MEK)	ND	1100	ppb(v/v)
Chloroform	ND	220	ppb(v/v)
1,1,1-Trichloroethane	ND	220	ppb(v/v)
Carbon tetrachloride	ND	220	ppb(v/v)
Benzene	ND	220	ppb(v/v)
1,2-Dichloroethane	ND	220	ppb(v/v)
Trichloroethene	ND	220	ppb(v/v)
1,2-Dichloropropane	ND	220	ppb(v/v)
Bromodichloromethane	ND	220	ppb(v/v)
cis-1,3-Dichloropropene	ND	220	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	1100	ppb(v/v)
Toluene	ND	220	ppb(v/v)
trans-1,3-Dichloropropene	ND	220	ppb(v/v)
1,1,2-Trichloroethane	ND	220	ppb(v/v)
Tetrachloroethene	ND	220	ppb(v/v)
2-Hexanone	ND	1100	ppb(v/v)
Dibromochloromethane	ND	220	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	220	ppb(v/v)
Chlorobenzene	ND	220	ppb(v/v)
Ethylbenzene	ND	220	ppb(v/v)

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Bechtel Hanford, Inc.

Client Sample ID: J032Y3

GC/MS Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AC **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	220	ppb(v/v)
m-Xylene & p-Xylene	ND	220	ppb(v/v)
o-Xylene	ND	220	ppb(v/v)
Styrene	ND	220	ppb(v/v)
Bromoform	ND	220	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	220	ppb(v/v)
Benzyl chloride	ND	1100	ppb(v/v)
4-Ethyltoluene	ND	220	ppb(v/v)
1,3,5-Trimethylbenzene	ND	220	ppb(v/v)
1,2,4-Trimethylbenzene	ND	220	ppb(v/v)
1,3-Dichlorobenzene	ND	220	ppb(v/v)
1,4-Dichlorobenzene	ND	220	ppb(v/v)
1,2-Dichlorobenzene	ND	220	ppb(v/v)
1,2,4-Trichloro-benzene	ND	540	ppb(v/v)
Hexachlorobutadiene	ND	430	ppb(v/v)
2,2-Dichloropropane	ND	220	ppb(v/v)
1,1-Dichloropropene	ND	220	ppb(v/v)
Dibromomethane	ND	220	ppb(v/v)
1-Bromo-2-chloroethane	ND	220	ppb(v/v)
2-Chloroethyl vinyl ether	ND	2700	ppb(v/v)
1,3-Dichloropropane	ND	220	ppb(v/v)
1-Chlorohexane	ND	220	ppb(v/v)
1,1,1,2-Tetrachloroethane	ND	220	ppb(v/v)
Cumene	ND	220	ppb(v/v)
n-Propylbenzene	ND	220	ppb(v/v)
2-Chlorotoluene	ND	540	ppb(v/v)
1,2,3-Trichloropropane	ND	220	ppb(v/v)
trans-1,4-Dichloro-2-butene	ND	540	ppb(v/v)
alpha-Methylstyrene	ND	220	ppb(v/v)
tert-Butylbenzene	ND	540	ppb(v/v)
sec-Butylbenzene	ND	220	ppb(v/v)
4-Isopropyltoluene (p-Cymene)	ND	220	ppb(v/v)
n-Butylbenzene	ND	220	ppb(v/v)
1,2-Dibromo-3-chloro-propane	ND	220	ppb(v/v)
Naphthalene	ND	540	ppb(v/v)
Methyl methacrylate	ND	220	ppb(v/v)
n-Octane	ND	220	ppb(v/v)
Allyl chloride	ND	430	ppb(v/v)
tert-Butyl alcohol	ND	1100	ppb(v/v)
Diisopropyl ether	ND	220	ppb(v/v)

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Bechtel Hanford, Inc.

Client Sample ID: J032Y3

GC/MS Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AC **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Tert-amyl methyl ether	ND	220	ppb(v/v)
Tert-butyl ethyl ether	ND	220	ppb(v/v)
Diethyl ether	**27000**	**220**	**ppb(v/v)**

Bechtel Hanford, Inc.

J032Y3

GC/MS Volatiles

Lot-Sample #: H5D220226-001 **Work Order #:** G803C1AC **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown phthalate		3700	M	22.654	ppb(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: W04629 **Work Order #...:** G88A71AA **Matrix.....:** AIR
MB Lot-Sample #: M5D260000-511

Prep Date.....: 04/26/05
Analysis Date..: 04/26/05 **Prep Batch #...:** 5116511
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Bromomethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl acetate	ND	10	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Benzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
Toluene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Hexanone	ND	10	ppb(v/v)	EPA-2 TO-15
Dibromochloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: W04629 **Work Order #...:** G88A71AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Styrene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Bromoform	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Benzyl chloride	ND	10	ppb(v/v)	EPA-2 TO-15
4-Ethyltoluene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2,4-Trichloro-benzene	ND	5.0	ppb(v/v)	EPA-2 TO-15
Hexachlorobutadiene	ND	4.0	ppb(v/v)	EPA-2 TO-15
2,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloropropene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dibromomethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1-Bromo-2-chloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Chloroethyl vinyl ether	ND	25	ppb(v/v)	EPA-2 TO-15
1,3-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1-Chlorohexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Cumene	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Propylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Chlorotoluene	ND	5.0	ppb(v/v)	EPA-2 TO-15
1,2,3-Trichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,4-Dichloro-2-butene	ND	5.0	ppb(v/v)	EPA-2 TO-15
alpha-Methylstyrene	ND	2.0	ppb(v/v)	EPA-2 TO-15
tert-Butylbenzene	ND	5.0	ppb(v/v)	EPA-2 TO-15
sec-Butylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
4-Isopropyltoluene (p-Cym	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Butylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromo-3-chloro-propane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Naphthalene	ND	5.0	ppb(v/v)	EPA-2 TO-15
Methyl methacrylate	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Octane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Allyl chloride	ND	4.0	ppb(v/v)	EPA-2 TO-15
tert-Butyl alcohol	ND	10	ppb(v/v)	EPA-2 TO-15
Diisopropyl ether	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tert-amyl methyl ether	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tert-butyl ethyl ether	ND	2.0	ppb(v/v)	EPA-2 TO-15
Diethyl ether	ND	2.0	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: W04629 Work Order #...: G88A71AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bechtel Hanford, Inc.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: M5D260000-511 B **Work Order #:** G88A71AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppb(v/v)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: W04629 Work Order #...: G88A71AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5D260000-511 G88A71AD-LCSD
Prep Date.....: 04/26/05 Analysis Date..: 04/26/05
Prep Batch #...: 5116511
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	101	(70 - 125)			EPA-2 TO-15
	102	(70 - 125)	1.1	(0-20)	EPA-2 TO-15
Methylene chloride	99	(75 - 120)			EPA-2 TO-15
	100	(75 - 120)	1.4	(0-20)	EPA-2 TO-15
Trichloroethene	100	(70 - 125)			EPA-2 TO-15
	101	(70 - 125)	0.76	(0-20)	EPA-2 TO-15
Toluene	103	(75 - 125)			EPA-2 TO-15
	105	(75 - 125)	1.9	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	100	(65 - 130)			EPA-2 TO-15
	101	(65 - 130)	0.87	(0-20)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: W04629 Work Order #...: G88A71AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5D260000-511 G88A71AD-LCSD
Prep Date.....: 04/26/05 Analysis Date..: 04/26/05
Prep Batch #...: 5116511
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50.5	51.0	ppb(v/v)	101		EPA-2 TO-15
	50.5	51.6	ppb(v/v)	102	1.1	EPA-2 TO-15
Methylene chloride	54.5	53.7	ppb(v/v)	99		EPA-2 TO-15
	54.5	54.5	ppb(v/v)	100	1.4	EPA-2 TO-15
Trichloroethene	49.5	49.5	ppb(v/v)	100		EPA-2 TO-15
	49.5	49.8	ppb(v/v)	101	0.76	EPA-2 TO-15
Toluene	49.5	51.2	ppb(v/v)	103		EPA-2 TO-15
	49.5	52.2	ppb(v/v)	105	1.9	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	50.0	50.1	ppb(v/v)	100		EPA-2 TO-15
	50.0	50.5	ppb(v/v)	101	0.87	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

Bechtel Hanford, Inc.

Client Sample ID: J032Y3

GC Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AA **Matrix.....:** AIR
Date Sampled...: 04/21/05 **Date Received..:** 04/22/05
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 6.49 **Method.....:** ASTM D 1946/E 260

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	ND	0.65	%
Carbon monoxide	ND	0.65	%
Methane	ND	0.65	%
Oxygen	**22**	**0.65**	**%**

Bechtel Hanford, Inc.

Client Sample ID: J032Y3 DUP

GC Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AD **Matrix.....:** AIR
Date Sampled...: 04/21/05 **Date Received..:** 04/22/05
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 6.49 **Method.....:** ASTM D 1946/E 260

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	ND	0.65	%
Carbon monoxide	ND	0.65	%
Methane	ND	0.65	%
Oxygen	**22**	**0.65**	**%**

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H5D220226 **Work Order #...:** G81EF1AA **Matrix.....:** AIR
MB Lot-Sample #: H5D220000-356

Prep Date.....: 04/22/05
Analysis Date..: 04/22/05 **Prep Batch #...:** 5112356
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.10	%	ASTM D 1946/E 260
Carbon monoxide	ND	0.10	%	ASTM D 1946/E 260
Methane	ND	0.10	%	ASTM D 1946/E 260
Oxygen	ND	0.10	%	ASTM D 1946/E 260

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H5D220226 **Work Order #...:** G81EF1AC **Matrix.....:** AIR
LCS Lot-Sample#: H5D220000-356
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Carbon dioxide	**100**	**(75 - 125)**	**ASTM D 1946/E 260**
Carbon monoxide	**101**	**(70 - 130)**	**ASTM D 1946/E 260**
Methane	**100**	**(70 - 130)**	**ASTM D 1946/E 260**
Nitrogen	**109**	**(70 - 130)**	**ASTM D 1946/E 260**
Oxygen	**105**	**(70 - 130)**	**ASTM D 1946/E 260**
Ethene	**107**	**(70 - 130)**	**ASTM D 1946/E 260**
Ethane	**106**	**(70 - 130)**	**ASTM D 1946/E 260**

NOTE(S):

Calculations are performed *before* rounding to avoid *round-off* errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H5D220226 **Work Order #...:** G81EF1AC **Matrix.....:** AIR
LCS Lot-Sample#: H5D220000-356
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Carbon dioxide	**5.00**	**5.00**	**%**	**100**	**ASTM D 1946/E**
Carbon monoxide	**5.00**	**5.06**	**%**	**101**	**ASTM D 1946/E**
Methane	**4.00**	**4.02**	**%**	**100**	**ASTM D 1946/E**
Nitrogen	**5.00**	**5.44**	**%**	**109**	**ASTM D 1946/E**
Oxygen	**4.00**	**4.21**	**%**	**105**	**ASTM D 1946/E**
Ethene	**5.00**	**5.37**	**%**	**107**	**ASTM D 1946/E**
Ethane	**5.00**	**5.32**	**%**	**106**	**ASTM D 1946/E**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SAMPLE DUPLICATE EVALUATION REPORT

GC Volatiles

Client Lot #...: H5D220226 **Work Order #...:** G803C1AA -SMP **Matrix.....:** AIR
SD Lot-Sample #: H5D220226-001 G803C1AD -DUP
Date Sampled...: 04/21/05 **Date Received..:** 04/22/05
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 6.49

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
Carbon dioxide	ND	ND	%	27	(0-30)	ASTM D 1946/E 260
Carbon monoxide	ND	ND	%	0	(0-30)	ASTM D 1946/E 260
Methane	ND	ND	%	0	(0-30)	ASTM D 1946/E 260
Oxygen	22	22	%	1.3	(0-30)	ASTM D 1946/E 260

Sample Receipt Documentation

HSD220226

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B03-005-114	Page 1 of 1

Collector: Renee Nielson / Eric Hokanson	Company Contact: Renee Nielson	Telephone No.: 373-3564	Project Coordinator: KESSNER, JH
Price Code: 9K	Data Turnaround: ~~15 Days~~ 24 Hours	RJN 4/21/05	
Project Designation: 100N Ancillary Facilities & 190-DR Other Solid Sampling fo	Sampling Location: 1900-N Tanks	SAF No.: B03-005	Air Quality
Ice Chest No.: AFS-04-046	Field Logbook No.: EL-1516-4	COA: R1900N13P0	Method of Shipment: Federal Express
Shipped To: STL Knoxville ~~EBERLINE SERVICES / LIONVILLE~~ RJN 4/21/05	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: 8457 9149 9821

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

None

Preservation	Cool 4C										
Type of Container	Tedlar Bag										
No. of Container(s)	1										
Volume	1L										

SAMPLE ANALYSIS

RJN 4/21/05

Sample No.	Matrix *	Sample Date	Sample Time	VOA - ~~8260A~~ ~~(TCL)~~ By TC-14 and Light gas by ASTM D 1946 RJN 4/21/05									
J032Y3	~~OTHER SOLID~~ Gaseous	4/21/05	1200	X									

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: EPC Kenneth Nielsen / R. Nielson 4/21/05	1530	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In: Andrew D. Flores	4/22/05 0930
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS RJN 4/21/05

Contact Joan Kessner (509) 375-4688 ~~for requested analyses~~ with questions.

Custody Seals Intact
Rec'd Temp. Ambient
1 cooler / FEDEX
TR 8457 9149 9821
ADF 04-22-05

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (03/01/2002)

22

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Bechtel Hanford Inc. **Project:** _____ **Lot Number:** H5D220226

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (North Carolina, 1668, 1613B: 0-4°C; VOST: 10°C) (Cooler temp should be used only if no temp blank.)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished by client	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 64179 PM Instructions: _____

Sample Receiving Associate: Andrew D. Flores Date: 04-22-05

QA026R15.doc, 11/15/04

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

BORATORY: STL Los Angeles, Air Toxics Lab
1721 South Grand Avenue
Santa Ana CA 92705,
ATTN:

NEED ANALYTICAL REPORT BY
4/24/05

ATTN:

PURCHASE ORDER: SR068108

CLIENT CODE: 127642 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0001

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H5D220226-001	4/21/05	Volatile Organics by GC/MS TO-15 (Medium Level)
G803C-1-AC		( ) METHOD: TO-15

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 4/22/05

SEND REPORT TO: JAMIE MCKINNEY

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville
INT: _____ 4/22/05 13:11:28
STL Los Angeles, Air Toxics Lab
1721 South Grand Avenue
Santa Ana CA 92705,

RELINQUISHED BY: [signature] DATE/TIME: 4-22-05 17:00

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: [signature] DATE/TIME: 4-23-05 1000

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Volatiles

SEVERN TRENT STL

TO-14A - Extended Raw Data

Lot ID: H5D220226

I certify that, to the best of my knowledge, the attached package is a complete and accurate representation of the original data.

Signature / Date: Ly 050405

SEVERN TRENT STL

TO-14A - Initial Calibration

Report Date : 22-Apr-2005 09:28

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

LC 4-26-05

Calibration File Names:
Level 1: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04211.D
Level 2: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04212.D
Level 3: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04213.D
Level 4: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04214.D
Level 5: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04215.D
Level 6: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04216.D
Level 7: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04217.D

Primary curve
AA 4/22/05

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 Propene	0.20995 / 0.18485	0.17313	0.17608	0.19203	0.19024	0.17557	0.18598	6.949
2 Propane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
18 1,1-Difluoroethane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
3 Dichlorodifluoromethane (F12)	3.31140 / 2.23046	3.08533	2.88412	3.13573	2.94533	2.70857	2.90013	12.162
4 Chlorodifluoromethane (F22)	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
7 Dimethyl ether (DME)	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
6 2-Methylpropane (Isobutane)	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

STL Los Angeles

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Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
5 1,2-Cl-1,1,2,2,F Ethane(F114)	3.54510	3.45785	3.18255	3.49331	3.27379	3.02614		
	2.67539						3.23630	9.554
8 Chloromethane	0.14101	0.12542	0.11213	0.11558	0.11439	0.10221		
	0.05217						0.10899	25.548
9 Vinyl Chloride	0.48638	0.49608	0.47740	0.52487	0.51407	0.49470		
	0.53740						0.50441	4.297
10 n-Butane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
11 2-Methylpropene (Isobutylene)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
12 1,3-Butadiene	0.28852	0.26969	0.27476	0.29370	0.29399	0.28661		
	0.30244						0.28710	3.982
13 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Bromomethane	0.84527	0.83986	0.76730	0.84250	0.85380	0.82099		
	0.83806						0.82968	3.524
16 Chloroethane	0.35912	0.34823	0.31377	0.33336	0.34551	0.31748		
	0.33785						0.33647	4.884

STL Los Angeles

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Curve Type : Average

Compound	2.000 Level 1 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
17 2-Methylbutane (Isopentane)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Bromide	0.94211 1.01171	0.90566	0.88764	0.98892	0.98873	0.94623	0.95300	4.826
20 Dichlorofluoromethane (F21)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Trichlorofluoromethane (F11)	3.46718 3.02160	3.33637	3.13151	3.41394	3.24595	3.04998	3.23808	5.448
22 n-Pentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 1,1-DC-1-flouroethane(F141b)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Ethanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Ether (Diethyl ether)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Acrolein	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Propionaldehyde (Propanal)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 22-Apr-2005 09:28

STL Los Angeles

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Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
28 1,1-Dichloroethene	1.33804	1.27153	1.27082	1.38071	1.34457	1.27822		
	1.29697						1.31155	3.288
30 1,1,2-CL 1,2,2-F ethane(F113)	4.12688	3.95303	3.78661	4.02768	3.86805	3.57928		
	3.43395						3.82507	6.450
29 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
31 Acetone	+++++	0.09560	0.16248	0.18993	0.18897	0.18492		
	0.21704						0.17315	24.125
32 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
33 Carbon Disulfide	1.41244	1.40506	1.41236	1.65597	1.69700	1.67584		
	1.86379						1.58892	11.358
34 2-Propanol	+++++	+++++	0.39227	0.54790	0.58603	0.59193		
	0.70731						0.56509	20.089
35 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
36 Allyl Chloride	0.56736	0.59981	0.60762	0.70283	0.68706	0.66779		
	0.74882						0.65447	9.912
37 Methylene Chloride	0.83332	0.77379	0.70101	0.75222	0.73034	0.68141		
	0.72712						0.74274	6.768

STL Los Angeles

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Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
38 Cyclopentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 tert-Butyl alcohol (TBA)	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Acrylonitrile	+++++ / 0.30256	+++++	0.14204	0.25151	0.25535	0.26781	0.24385	24.756
41 trans-1,2-Dichloroethene	1.08483 / 1.19390	1.07334	1.06244	1.22760	1.17503	1.14757	1.13782	5.711
42 Methyl-tert-butyl ether[MTBE]	1.93320 / 2.09777	1.89637	1.89493	2.06715	2.06144	2.00341	1.99347	4.286
43 n-Hexane	0.71291 / 0.76938	0.72498	0.72096	0.77401	0.74399	0.72301	0.73846	3.331
44 1,1-Dichloroethane	1.54227 / 1.57308	1.52346	1.44428	1.61945	1.56311	1.49745	1.53759	3.674
45 Vinyl Acetate	+++++ / 1.29756	+++++	0.82657	1.27579	1.35537	1.32296	1.21565	18.058
46 Diisopropyl ether (DIPE)	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 1-Propanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

STL Los Angeles

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Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
48 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Ethyl tert-butyl ether (ETBE)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Nitromethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
52 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 cis-1,2-Dichloroethene	0.90885	0.93954	0.90372	1.02968	0.99678	0.97581		
	1.03127						0.96938	5.511
54 2-Butanone	+++++	+++++	0.23843	0.28682	0.28951	0.29896		
	0.32673						0.28809	11.087
55 Propionitrile (Ethyl cyanide)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 Ethyl Acetate	+++++	1.67097	1.07081	1.44465	1.41103	1.35520		
	1.49680						1.40825	14.019
57 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

STL Los Angeles

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Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
59 Tetrahydrofuran	+++++ / 0.59128	0.48720	0.52396	0.53810	0.55183	0.52995	0.53705	6.378
60 Chloroform	2.21246 / 2.12593	2.16642	2.10189	2.29417	2.20568	2.10054	2.17244	3.248
61 1,1,1-Trichloroethane	2.31215 / 2.32746	2.27006	2.19274	2.41842	2.36991	2.28578	2.31093	3.139
62 Cyclohexane	1.05878 / 1.12086	1.04368	1.05954	1.14911	1.09510	1.05006	1.08245	3.718
64 Carbon Tetrachloride	2.43688 / 2.54543	2.37316	2.40399	2.65070	2.61237	2.52413	2.50666	4.214
63 1,1-Dichloro-1-propene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Heptene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Isobutyl alcohol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 Benzene	0.61468 / 0.49052	0.56961	0.57084	0.57829	0.57425	0.55757	0.56511	6.616
69 1,2-Dichloroethane	0.33796 / 0.29380	0.34410	0.34546	0.33830	0.33368	0.32782	0.33159	5.340

STL Los Angeles

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Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
70 2,2,4-Trimethylpentane	1.19343 0.93954	1.16070	1.14441	1.16337	1.16280	1.12454	1.12697	7.564
71 tert-Amyl methyl ether (TAME)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 n-Heptane	0.34628 0.31377	0.34037	0.33960	0.35319	0.34448	0.34590	0.34051	3.705
74 2,3,4-Trimethylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 Trichloroethene	0.52161 0.43339	0.49741	0.48915	0.51456	0.50826	0.49809	0.49464	5.900
76 Methylcyclohexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 1-Butanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1,2-Dichloropropane	0.14066 0.12911	0.14299	0.14037	0.14245	0.14114	0.13802	0.13925	3.411
79 Dibromomethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Methyl methacrylate	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
81 1,4-Dioxane	+++++ / 0.14685	0.12497	0.14615	0.15288	0.15117	0.15595	0.14633	7.581
82 Bromodichloromethane	0.42219 / 0.44979	0.42562	0.44737	0.48993	0.50778	0.50083	0.46336	7.702
83 1-Bromo-2-chloroethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2-Chloroethylvinyl ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,3-Dichloropropene	0.33754 / 0.43292	0.36356	0.38410	0.43905	0.45354	0.46520	0.41084	11.918
86 4-Methyl-2-Pentanone	+++++ / 0.18460	+++++	0.14324	0.17384	0.18568	0.19122	0.17572	10.934
87 Pyridine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Toluene	0.81409 / 0.65484	0.80889	0.79444	0.80194	0.80086	0.77756	0.77895	7.183
90 n-Octane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 trans-1,3-Dichloropropene	0.28502 / 0.42327	0.27763	0.33556	0.41069	0.41818	0.43327	0.36909	18.427

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
92 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 1,1,2-Trichloroethane	0.51177	0.49891	0.49399	0.50664	0.49166	0.47463		
	0.42427						0.48598	6.111
95 Tetrachloroethene	0.96602	0.94969	0.93110	0.94101	0.90538	0.85679		
	0.71939						0.89562	9.546
94 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 2-Hexanone	+++++	+++++	0.18131	0.23444	0.26823	0.27052		
	0.27409						0.24572	16.025
97 Dibromochloromethane	0.86836	0.90396	0.98502	1.09785	1.11651	1.08862		
	0.90139						0.99453	10.649
98 1,2-Dibromoethane	0.82018	0.93335	0.94348	0.99037	0.99199	0.96333		
	0.78992						0.91895	8.843
M 99 Xylenes (total)	0.49854	0.50458	0.50560	0.54205	0.54776	0.53456		
	0.45307						0.51231	6.395
100 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Chlorobenzene	1.03972	0.97985	0.94351	0.97151	0.95677	0.92272		
	0.76543						0.93993	9.068

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
103 1,1,1,2-Tetrachloroethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Ethylbenzene	1.28781 / 1.02036	1.29045	1.30757	1.36204	1.35346	1.29955	1.27446	9.096
105 m,p-Xylenes	0.51437 / 0.44375	0.50534	0.50772	0.54806	0.55051	0.53751	0.51532	7.122
106 n-Nonane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 o-Xylene	0.46688 / 0.47170	0.50307	0.50136	0.53003	0.54227	0.52867	0.50628	5.783
108 Styrene	0.58712 / 0.70547	0.62285	0.67174	0.76657	0.80561	0.81058	0.70999	12.418
109 Cellosolve Acetate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 Bromoform	0.79235 / 0.91857	0.82383	0.95589	1.09957	1.13533	1.12565	0.97874	14.663
111 .alpha.-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isopropylbenzene (Cumene)	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
113 Cyclohexanone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 1,1,2,2-Tetrachloroethane	1.05316 0.88930	1.12259	1.14563	1.18466	1.17877	1.12771	1.10026	9.337
115 Bromobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,2,3-Trichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 trans-1,4-Dichloro-2-butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 n-Propylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 3-Ethyltoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 4-Ethyl Toluene	0.89302 1.07623	1.08402	1.16495	1.20471	1.29285	1.38929	1.15787	13.939
124 1,3,5-Trimethylbenzene	1.27280 +++++	1.14180	1.17781	1.14212	1.19299	1.18418	1.18528	4.051

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
121 4-Chlorotoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Decane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 .beta.-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 2-Ethyltoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 .alpha.-Methylstyrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 tert-Butylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 Pentachloroethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1,2,4-Trimethylbenzene	0.36662 / +++++	0.39403	0.41437	0.40540	0.43529	0.45386	0.41160	7.469
132 sec-Butylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 D-Limonene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
134 1,3-Dichlorobenzene	0.84186 / 0.87440	0.90091	0.93993	1.01356	1.06153	1.06057	0.95611	9.390
135 p-Isopropyltoluene (p-Cymene)	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
136 1,4-Dichlorobenzene	1.03029 / 0.90154	0.93309	0.99535	1.01739	1.07404	1.06970	1.00306	6.523
137 1,2,3-Trimethylbenzene	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
138 Benzyl Chloride	++++++ / 0.97479	++++++	0.62148	0.88159	1.01478	1.08795	0.91612	19.732
139 n-Butylbenzene	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
140 1,2-Dichlorobenzene	0.92505 / 0.83200	0.90189	0.90005	0.96367	1.00115	0.99356	0.93105	6.436
141 n-Undecane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
142 1,2-Dibromo-3-chloropropane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
143 n-Dodecane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 21:57
End Cal Date : 22-APR-2005 01:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.M
Cal Date : 22-Apr-2005 09:28 almagroa
Curve Type : Average

Compound	2.000 Level 1	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	500.000 Level 7							
144 1,2,4-Trichlorobenzene	+++++	0.45279	0.44048	0.42976	0.44124	0.45530		
	0.43324						0.44214	2.312
145 Hexachlorobutadiene	0.77462	0.81158	0.80383	0.79674	0.81725	0.81049		
	0.68006						0.78494	6.156
146 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 66 1,2-Dichloroethane-d4	0.30154	0.29933	0.30010	0.29963	0.31099	0.29996		
	0.29391						0.30078	1.698
$ 88 Toluene-d8	0.54020	0.53273	0.52429	0.53260	0.54055	0.54112		
	0.54639						0.53684	1.375
$ 114 4-Bromofluorobenzene	0.94822	0.95375	0.94819	0.96996	0.98673	0.98867		
	1.00417						0.97138	2.301

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B/IC04215.D
Report Date: 04/22/2005

INITIAL CALIBRATION REPORT

Method File : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Instrument ID: gcmsb.i Injection Date: 22-APR-2005 00:21
Lab File ID : IC04215.D Lab Sample ID : 50.0PPBV
Analysis Type: AIR

COMPOUND	%RSD
Propene	6.9
Dichlorodifluoromethane (F12)	12.2
1,2-Cl-1,1,2,2,F Ethane(F114)	9.6
Chloromethane	25.5
Vinyl Chloride	4.3
1,3-Butadiene	4.0
Bromomethane	3.5
Chloroethane	4.9
Vinyl Bromide	4.8
Trichlorofluoromethane (F11)	5.4
1,1-Dichloroethene	3.3
1,1,2-CL 1,2,2-F ethane(F113)	6.5
Acetone	24.1
Carbon Disulfide	11.4
2-Propanol	20.1
Allyl Chloride	9.9
Methylene Chloride	6.8
Acrylonitrile	24.8
trans-1,2-Dichloroethene	5.7
Methyl-tert-butyl ether[MTBE]	4.3
n-Hexane	3.3
1,1-Dichloroethane	3.7
Vinyl Acetate	18.1
cis-1,2-Dichloroethene	5.5
2-Butanone	11.1
Ethyl Acetate	14.0
Tetrahydrofuran	6.4
Chloroform	3.2
1,1,1-Trichloroethane	3.1
Cyclohexane	3.7
Carbon Tetrachloride	4.2
1,2-Dichloroethane-d4	1.7
Benzene	6.6
1,2-Dichloroethane	5.3
2,2,4-Trimethylpentane	7.6
n-Heptane	3.7
Trichloroethene	5.9
1,2-Dichloropropane	3.4
1,4-Dioxane	7.6

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B/IC04215.D
Report Date: 04/22/2005

INITIAL CALIBRATION REPORT

Method File : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Instrument ID: gcmsb.i Injection Date: 22-APR-2005 00:21
Lab File ID : IC04215.D Lab Sample ID : 50.0PPBV
Analysis Type: AIR

COMPOUND	%RSD
Bromodichloromethane	7.7
cis-1,3-Dichloropropene	11.9
4-Methyl-2-Pentanone	10.9
Toluene-d8	1.4
Toluene	7.2
trans-1,3-Dichloropropene	18.4
1,1,2-Trichloroethane	6.1
Tetrachloroethene	9.5
2-Hexanone	16.0
Dibromochloromethane	10.6
1,2-Dibromoethane	8.8
Xylenes (total)	6.4
Chlorobenzene	9.1
Ethylbenzene	9.1
m,p-Xylenes	7.1
o-Xylene	5.8
Styrene	12.4
Bromoform	14.7
4-Bromofluorobenzene	2.3
1,1,2,2-Tetrachloroethane	9.3
4-Ethyl Toluene	13.9
1,3,5-Trimethylbenzene	4.1
1,2,4-Trimethylbenzene	7.5
1,3-Dichlorobenzene	9.4
1,4-Dichlorobenzene	6.5
Benzyl Chloride	19.7
1,2-Dichlorobenzene	6.4
1,2,4-Trichlorobenzene	2.3
Hexachlorobutadiene	6.2

The average of all %RSD's in the initial calibration is 8.5 AA 4/22/05

Page: 18

STL Los Angeles
GC/MS-AIR INSTRUMENT LOG
GC/MS-AIR

Inst ID : gcmsb.i
Batch ID : 050421X.B
Tune File : BF050211.U
Method File: TO-14A
ICAL ID: 04-21-05
Reviewed By: _____
Date: _____

I.S. Standard ID:PSL9911283
Blank Lot No:14-103589655-2
MDL Date:01-20-05

|X|TO-14A/TO-15 Med (SOP: COI-MS-003) | |EPA TO-15 SCAN OR SIM | |TO14A Low

Batch : _____

CONTAINER NUMBER is 001 for all except as indicated otherwise

Date	Time	Oper	Work Order	Lot ID	Client SmpID or Std ID	File ID	Final Press	Init Pres	Smp Vol	Dil	Line No.	Comments
21-APR-2005	20:59	AA	BFB	TUNING	PSL9911283	BF04211.D	1	1	28	1	2	OK
21-APR-2005	21:20	AA	BLANK	METHOD BLANK	BLANK	MB04211.D	1	1	500	1	1	
21-APR-2005	21:57	AA	2.0PPBV	ICAL(LEVEL1)	MSL0501510	IC04211.D	1	1	20	1	2	
21-APR-2005	22:33	AA	4.0PPBV	ICAL(LEVEL2)	MSL0501510	IC04212.D	1	1	40	1	2	
21-APR-2005	23:09	AA	10.0PPBV	ICAL(LEVEL3)	MSL0501510	IC04213.D	1	1	100	1	2	
21-APR-2005	23:45	AA	25.0PPBV	ICAL(LEVEL4)	MSL0501510	IC04214.D	1	1	250	1	2	
22-APR-2005	00:21	AA	50.0PPBV	ICAL(LEVEL5)	MSL0501505	IC04215.D	1	1	125	1	3	
22-APR-2005	00:57	AA	100PPBV	ICAL(LEVEL6)	MSL0501505	IC04216.D	1	1	250	1	3	
22-APR-2005	01:35	AA	500PPBV	ICAL(LEVEL7)	MSL0501505	IC04217.D	1	1	1250	1	3	
22-APR-2005	02:11	AA	BLANK	METHOD BLANK	GL0127	MB04212.D	1	1	500	1	4	
22-APR-2005	02:47	AA	BLANK	METHOD BLANK	GL0127	MB04213.D	1	1	500	1	4	

STL Los Angeles

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421x.b\BF04211.D
Lab Smp Id: BFB Client Smp ID: PSL9911283
Inj Date : 21-APR-2005 20:59
Operator : AA Inst ID: gcmsb.i
Smp Info : BFB,PSL9911283,,TUNING
Misc Info : ,,28,28,3,,BFB,,,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421x.b\BFB.m
Meth Date : 23-Feb-2005 11:58 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: LAPC065

Concentration Formula: Amt * DF * Uf * Vf * VI

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.087	4.200	(0.000)	95	101578			0.00- 100.00	100.00
4.087	4.200	(0.000)	50	17385			15.00- 40.00	17.11
4.087	4.200	(0.000)	75	48320			30.00- 60.00	47.57
4.087	4.200	(0.000)	96	7555			5.00- 9.00	7.44
4.087	4.200	(0.000)	173	0			0.00- 2.00	0.00
4.087	4.200	(0.000)	174	82490			50.00- 120.00	81.21
4.087	4.200	(0.000)	175	6851			5.00- 9.00	8.31
4.087	4.200	(0.000)	176	80536			95.00- 101.00	97.63
4.087	4.200	(0.000)	177	5456			5.00- 9.00	6.77

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421x.b\BF04211.D

Date : 21-APR-2005 20:59

Client ID: PSL9911283

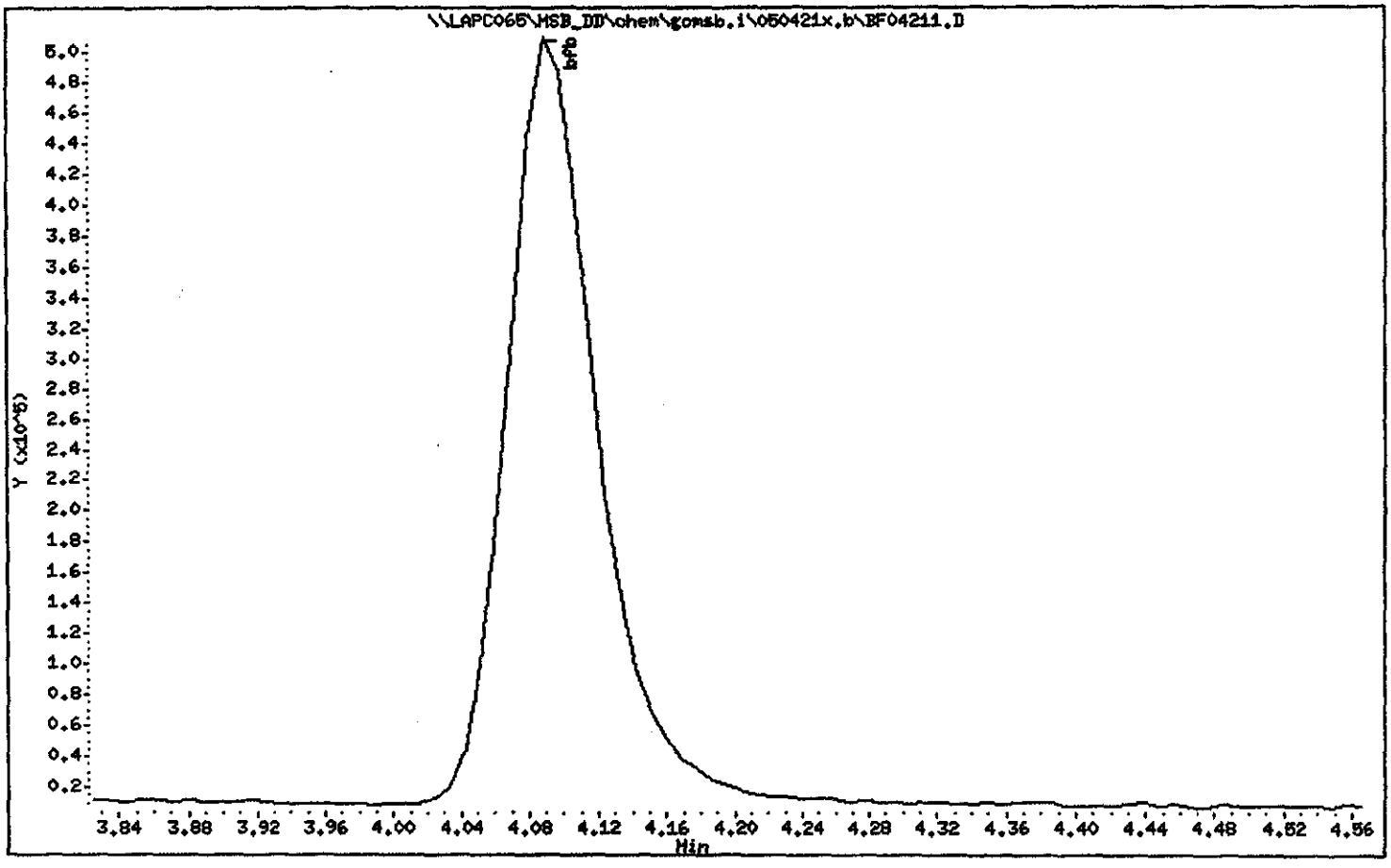
Instrument: gcmsb.i

Sample Info: BFB,PSL9911283,,TUNING

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421x.b\BF04211.D

Date : 21-APR-2005 20:59

Client ID: PSL9911283

Instrument: gcmsb.i

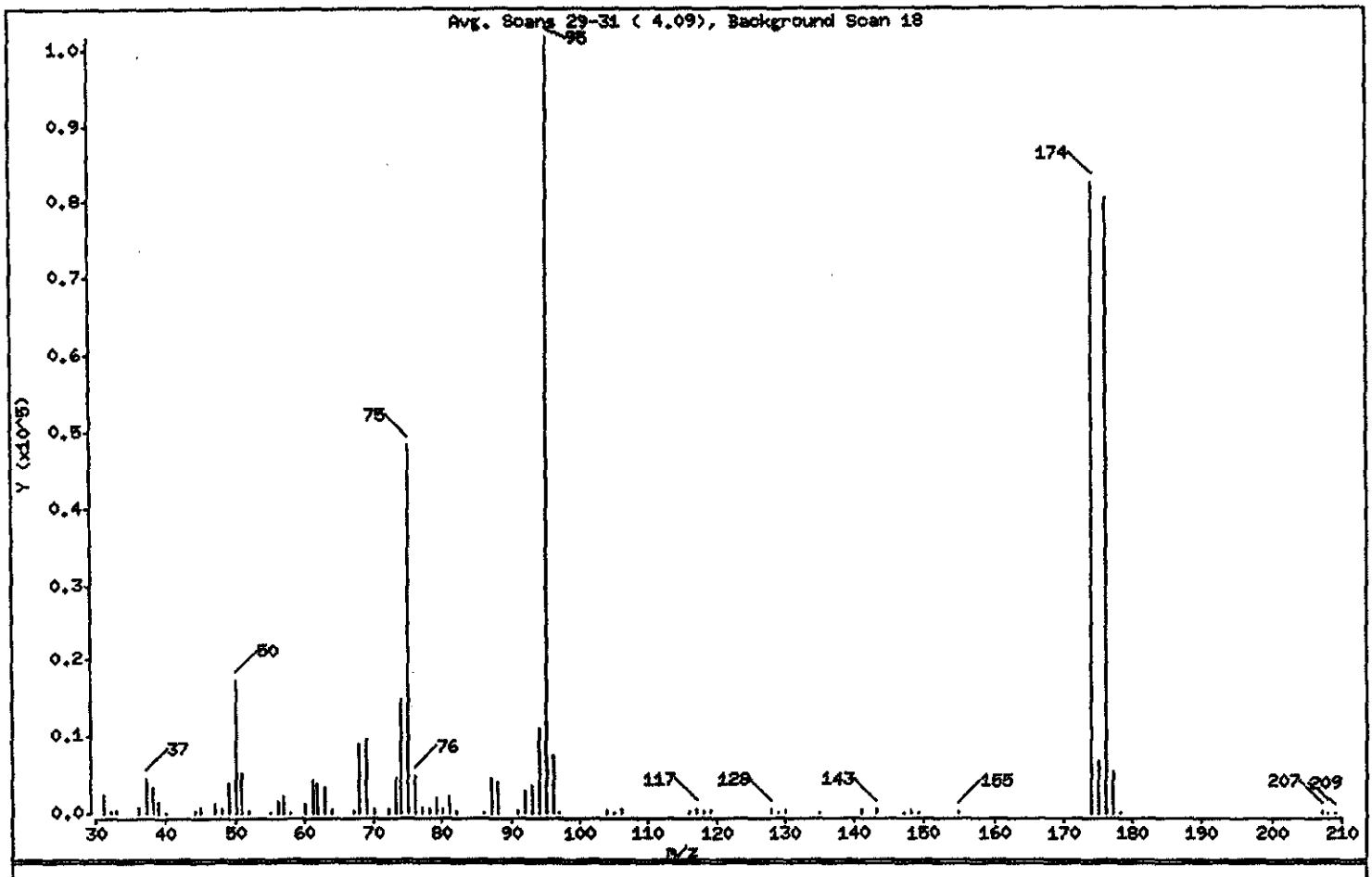
Sample Info: BFB,PSL9911283,,TUNING

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.11
75	30.00 - 60.00% of mass 95	47.57
96	5.00 - 9.00% of mass 95	7.44
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	81.21
175	5.00 - 9.00% of mass 174	6.74 (8.31)
176	95.00 - 101.00% of mass 174	79.28 (97.63)
177	5.00 - 9.00% of mass 176	5.37 (6.77)

CI
use
graph

AA 4/21/05

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421x.b\BF04211.D

Date : 21-APR-2005 20:59

Client ID: PSL9911283

Instrument: gcmsb.i

Sample Info: BFB,PSL9911283,,TUNING

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53

Data File: BF04211.D
Spectrum: Avg. Scans 29-31 (4.09), Background Scan 18
Location of Maximum: 95.00
Number of points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	2263	58.00	59	81.00	2002	128.00	475
32.00	188	60.00	1148	82.00	275	129.00	73
33.00	228	61.00	4308	86.00	80	130.00	287
36.00	629	62.00	3721	87.00	4399	135.00	62
37.00	4341	63.00	3171	88.00	4069	141.00	489
38.00	3359	64.00	357	91.00	281	143.00	574
39.00	1439	67.00	285	92.00	2764	147.00	73
40.00	48	68.00	8895	93.00	3579	148.00	146
44.00	314	69.00	9526	94.00	10999	149.00	61
45.00	762	70.00	494	95.00	101576	155.00	283
47.00	1053	72.00	390	96.00	7855	174.00	82488
48.00	518	73.00	4539	97.00	112	175.00	6851
49.00	3793	74.00	14806	104.00	196	176.00	80536
50.00	17384	75.00	48320	105.00	63	177.00	5456
51.00	5131	76.00	4642	106.00	353	178.00	92
52.00	170	77.00	747	116.00	189	207.00	118
55.00	75	78.00	499	117.00	512	208.00	62
56.00	1404	79.00	1829	118.00	133	209.00	68
57.00	2152	80.00	373	119.00	162		

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04211.D
Lab Smp Id: 2.0PPBV Client Smp ID: MSL0501510
Inj Date : 21-APR-2005 21:57
Operator : AA Inst ID: gcmsb.i
Smp Info : 2.0PPBV,MSL0501510,, ICAL(LEVEL1)
Misc Info : 1,1,20,20,1,1,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 08:52 almagroa Quant Type: ISTD
Cal Date : 21-APR-2005 21:57 Cal File: IC04211.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	20.000	CalVol
SmpVol	20.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.073	2.055	(0.249)	4659	2.00000	2.000
3 Dichlorodifluoromethane (F12)	85	2.136	2.137	(0.256)	73482	2.00000	2.000
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.362	2.371	(0.283)	78668	2.00000	2.000
8 Chloromethane	52	2.416	2.416	(0.290)	3129	2.00000	2.000(a)
9 Vinyl Chloride	62	2.605	2.606	(0.313)	10793	2.00000	2.000
12 1,3-Butadiene	39	2.677	2.678	(0.321)	12805	4.00000	4.000(a)
15 Bromomethane	94	3.128	3.183	(0.375)	18757	2.00000	2.000
16 Chloroethane	64	3.327	3.363	(0.399)	7969	2.00000	2.000(a)
19 Vinyl Bromide	106	3.651	3.688	(0.438)	20906	2.00000	2.000
21 Trichlorofluoromethane (F11)	101	3.769	3.814	(0.452)	76939	2.00000	2.000
28 1,1-Dichloroethene	61	4.707	4.743	(0.565)	29692	2.00000	2.000
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.743	4.788	(0.569)	91578	2.00000	2.000
31 Acetone	58	4.950	4.869	(0.594)	240	2.00000	(a)
33 Carbon Disulfide	76	5.067	5.095	(0.608)	31343	2.00000	2.000(a)

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04211.D Page 2
Report Date: 22-Apr-2005 08:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.401	5.221	(0.648)	1532	2.00000	(a)
	36 Allyl Chloride	41	5.428	5.420	(0.651)	12590	2.00000	2.000(a)
	37 Methylene Chloride	49	5.617	5.645	(0.674)	18492	2.00000	2.000
	41 trans-1,2-Dichloroethene	61	6.150	6.141	(0.738)	24073	2.00000	2.000
	42 Methyl-tert-butyl ether[MTBE]	73	6.141	6.177	(0.737)	42899	2.00000	2.000(a)
	43 n-Hexane	41	6.646	6.673	(0.798)	15820	2.00000	2.000(a)
	44 1,1-Dichloroethane	63	6.871	6.899	(0.825)	34224	2.00000	2.000
	45 Vinyl Acetate	43	7.214	7.043	(0.866)	4873	2.00000	(a)
	53 cis-1,2-Dichloroethene	96	7.953	7.936	(0.955)	20168	2.00000	2.000
	54 2-Butanone	72	8.143	7.990	(0.977)	2229	2.00000	(a)
	56 Ethyl Acetate	43	8.260	8.125	(0.991)	32063	2.00000	(a)
*	58 Bromochloromethane	49	8.332	8.360	(1.000)	554766	50.0000	
	59 Tetrahydrofuran	42	8.531	8.441	(1.024)	9718	2.00000	(a)
	60 Chloroform	83	8.495	8.522	(1.019)	49096	2.00000	2.000
	61 1,1,1-Trichloroethane	97	8.801	8.829	(1.056)	51308	2.00000	2.000
	62 Cyclohexane	84	8.900	8.919	(1.068)	23495	2.00000	2.000(a)
	64 Carbon Tetrachloride	117	9.090	9.117	(1.091)	54076	2.00000	2.000
$	66 1,2-Dichloroethane-d4	65	9.360	9.370	(0.921)	573610	50.0000	50.00
	68 Benzene	78	9.460	9.478	(0.931)	46772	2.00000	2.000
	69 1,2-Dichloroethane	62	9.505	9.505	(0.935)	25716	2.00000	2.000
	70 2,2,4-Trimethylpentane	57	9.613	9.650	(0.946)	90810	2.00000	2.000(a)
	72 n-Heptane	43	9.983	10.001	(0.982)	26349	2.00000	2.000(a)
*	73 1,4-Difluorobenzene	114	10.163	10.182	(1.000)	1902288	50.0000	
	75 Trichloroethene	130	10.632	10.615	(1.046)	39690	2.00000	2.000
	78 1,2-Dichloropropane	76	11.002	11.002	(1.083)	10703	2.00000	2.000
	81 1,4-Dioxane	88	11.309	11.273	(1.113)	1134	2.00000	(a)
	82 Bromodichloromethane	85	11.516	11.498	(1.133)	32125	2.00000	2.000
	85 cis-1,3-Dichloropropene	75	12.346	12.310	(1.215)	25684	2.00000	2.000
	86 4-Methyl-2-Pentanone	58	12.643	12.599	(1.244)	4905	2.00000	(a)
$	88 Toluene-d8	100	12.779	12.788	(1.257)	1027619	50.0000	50.00
	89 Toluene	91	12.887	12.914	(1.268)	61945	2.00000	2.000
	91 trans-1,3-Dichloropropene	75	13.392	13.311	(0.868)	18437	2.00000	2.000
	93 1,1,2-Trichloroethane	97	13.645	13.636	(0.885)	33105	2.00000	2.000
	95 Tetrachloroethene	166	13.906	13.907	(0.902)	62489	2.00000	2.000
	96 2-Hexanone	58	14.267	14.114	(0.925)	1551	2.00000	(a)
	97 Dibromochloromethane	129	14.375	14.358	(0.932)	56172	2.00000	2.000
	98 1,2-Dibromoethane	107	14.592	14.565	(0.946)	53055	2.00000	2.000
*	101 Chlorobenzene-d5	117	15.421	15.431	(1.000)	1617184	50.0000	
	102 Chlorobenzene	112	15.466	15.485	(1.003)	67257	2.00000	2.000
M	99 Xylenes (total)	106				96747	6.00000	6.000
	104 Ethylbenzene	91	15.701	15.701	(1.018)	83305	2.00000	2.000
	105 m,p-Xylenes	106	15.926	15.927	(1.033)	66546	4.00000	4.000
	107 o-Xylene	106	16.684	16.675	(1.082)	30201	2.00000	2.000
	108 Styrene	104	16.774	16.703	(1.088)	37979	2.00000	2.000
	110 Bromoform	173	17.054	17.045	(1.106)	51255	2.00000	2.000
$	114 4-Bromofluorobenzene	95	17.667	17.677	(1.146)	1533445	50.0000	50.00
	116 1,1,2,2-Tetrachloroethane	83	17.974	17.947	(1.166)	68126	2.00000	2.000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
123 4-Ethyl Toluene	105	18.425	18.407	(1.195)	57767	2.00000	2.000
124 1,3,5-Trimethylbenzene	105	18.542	18.533	(1.202)	82334	2.00000	2.000
131 1,2,4-Trimethylbenzene	120	19.300	19.273	(1.251)	23716	2.00000	2.000
134 1,3-Dichlorobenzene	146	19.886	19.823	(1.289)	54458	2.00000	2.000
136 1,4-Dichlorobenzene	146	20.057	19.995	(1.301)	66647	2.00000	2.000
138 Benzyl Chloride	91	20.391	20.256	(1.322)	21154	2.00000	(a)
140 1,2-Dichlorobenzene	146	20.788	20.734	(1.348)	59839	2.00000	2.000
144 1,2,4-Trichlorobenzene	180	23.313	23.178	(1.512)	31037	2.00000	(a)
145 Hexachlorobutadiene	225	23.421	23.413	(1.519)	50108	2.00000	2.000(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04211.D

Date : 21-APR-2005 21:57

Client ID: MSL0501510

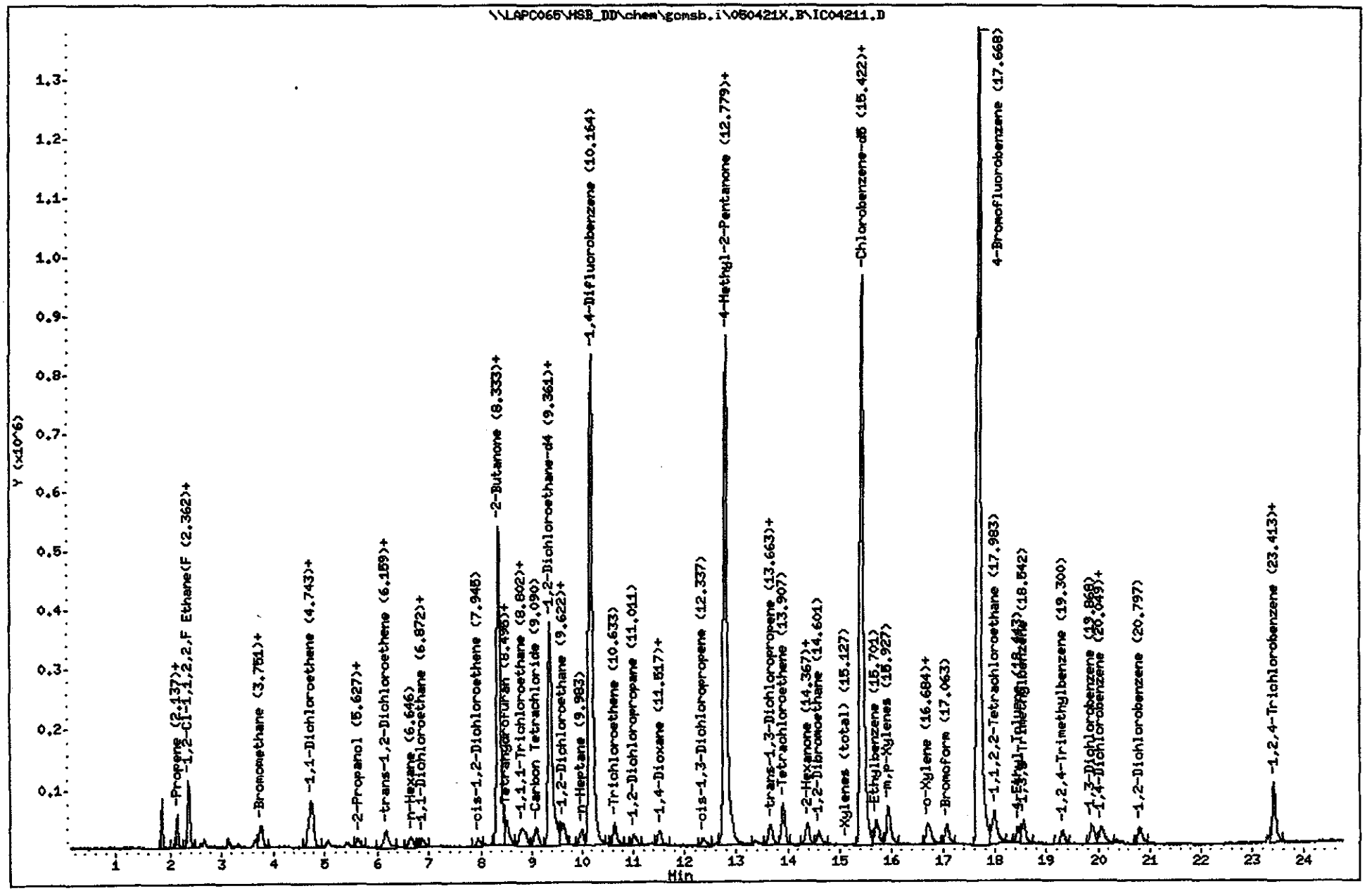
Instrument: gcmsb.i

Sample Info: 2.0PPBV,MSL0501510,, ICAL(LEVEL1)

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04212.D
Lab Smp Id: 4.0PPBV Client Smp ID: MSL0501510
Inj Date : 21-APR-2005 22:33
Operator : AA Inst ID: gcmsb.i
Smp Info : 4.0PPBV,MSL0501510,, ICAL(LEVEL2)
Misc Info : 1,1,40,40,1,2,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 08:58 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 01:35 Cal File: IC04217.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	40.000	CalVol
SmpVol	40.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propene	41	2.061	2.061	(0.247)	7704	4.00000	3.724
3 Dichlorodifluoromethane (F12)	85	2.124	2.124	(0.255)	137295	4.00000	4.255
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.349	2.349	(0.282)	153872	4.00000	4.274
8 Chloromethane	52	2.394	2.394	(0.288)	5581	4.00000	4.603
9 Vinyl Chloride	62	2.593	2.593	(0.311)	22075	4.00000	3.934
12 1,3-Butadiene	39	2.656	2.656	(0.319)	24002	8.00000	7.515(a)
15 Bromomethane	94	3.116	3.116	(0.374)	37373	4.00000	4.049
16 Chloroethane	64	3.305	3.305	(0.397)	15496	4.00000	4.140
19 Vinyl Bromide	106	3.630	3.630	(0.436)	40301	4.00000	3.801
21 Trichlorofluoromethane (F11)	101	3.747	3.747	(0.450)	148466	4.00000	4.121
28 1,1-Dichloroethene	61	4.694	4.694	(0.564)	56582	4.00000	3.878
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.739	4.739	(0.569)	175907	4.00000	4.134
31 Acetone	58	4.974	4.974	(0.597)	4254	4.00000	2.208(a)
33 Carbon Disulfide	76	5.046	5.046	(0.606)	62524	4.00000	3.537(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.299	5.299	(0.636)	3338	4.00000	0.6207(a)
	36 Allyl Chloride	41	5.380	5.380	(0.646)	26691	4.00000	3.666(a)
	37 Methylene Chloride	49	5.605	5.605	(0.673)	34433	4.00000	4.167
	41 trans-1,2-Dichloroethene	61	6.128	6.128	(0.736)	47763	4.00000	3.773
	42 Methyl-tert-butyl ether[MTBE]	73	6.137	6.137	(0.737)	84387	4.00000	3.805(a)
	43 n-Hexane	41	6.651	6.651	(0.799)	32261	4.00000	3.927(a)
	44 1,1-Dichloroethane	63	6.868	6.868	(0.825)	67793	4.00000	3.963
	45 Vinyl Acetate	43	7.157	7.157	(0.859)	16832	4.00000	1.245(a)
	53 cis-1,2-Dichloroethene	96	7.959	7.959	(0.956)	41809	4.00000	3.877
	54 2-Butanone	72	8.049	8.049	(0.966)	7834	4.00000	2.444(a)
	56 Ethyl Acetate	43	8.194	8.194	(0.984)	74357	4.00000	4.746
*	58 Bromochloromethane	49	8.329	8.329	(1.000)	556241	50.0000	
	59 Tetrahydrofuran	42	8.500	8.500	(1.021)	21680	4.00000	3.629(a)
	60 Chloroform	83	8.500	8.500	(1.021)	96404	4.00000	3.989
	61 1,1,1-Trichloroethane	97	8.789	8.789	(1.055)	101016	4.00000	3.929
	62 Cyclohexane	84	8.888	8.888	(1.067)	46443	4.00000	3.857(a)
	64 Carbon Tetrachloride	117	9.096	9.096	(1.092)	105604	4.00000	3.787
$	66 1,2-Dichloroethane-d4	65	9.357	9.357	(0.921)	578670	50.0000	49.76
	68 Benzene	78	9.465	9.465	(0.932)	88095	4.00000	4.032
	69 1,2-Dichloroethane	62	9.502	9.502	(0.935)	53218	4.00000	4.151
	70 2,2,4-Trimethylpentane	57	9.610	9.610	(0.946)	179511	4.00000	4.120(a)
	72 n-Heptane	43	9.980	9.980	(0.982)	52641	4.00000	3.998(a)
*	73 1,4-Difluorobenzene	114	10.160	10.160	(1.000)	1933225	50.0000	
	75 Trichloroethene	130	10.620	10.620	(1.045)	76929	4.00000	4.022
	78 1,2-Dichloropropane	76	11.017	11.017	(1.084)	22115	4.00000	4.108
	81 1,4-Dioxane	88	11.305	11.305	(1.113)	19328	4.00000	3.416(aM)
	82 Bromodichloromethane	85	11.504	11.504	(1.132)	65825	4.00000	3.674
	85 cis-1,3-Dichloropropene	75	12.325	12.325	(1.213)	56227	4.00000	3.540
	86 4-Methyl-2-Pentanone	58	12.622	12.622	(1.242)	19271	4.00000	2.836(a)
$	88 Toluene-d8	100	12.775	12.775	(1.257)	1029886	50.0000	49.62
	89 Toluene	91	12.902	12.902	(1.270)	125102	4.00000	4.154
	91 trans-1,3-Dichloropropene	75	13.353	13.353	(0.866)	35633	4.00000	3.009
	93 1,1,2-Trichloroethane	97	13.650	13.650	(0.885)	64034	4.00000	4.106
	95 Tetrachloroethene	166	13.903	13.903	(0.902)	121890	4.00000	4.241
	96 2-Hexanone	58	14.210	14.210	(0.922)	6758	4.00000	0.8571(a)
	97 Dibromochloromethane	129	14.372	14.372	(0.932)	116021	4.00000	3.636
	98 1,2-Dibromoethane	107	14.570	14.570	(0.945)	119794	4.00000	4.063
*	101 Chlorobenzene-d5	117	15.418	15.418	(1.000)	1604347	50.0000	
	102 Chlorobenzene	112	15.472	15.472	(1.004)	125761	4.00000	4.170
M	99 Xylenes (total)	106				194287	12.0000	11.82
	104 Ethylbenzene	91	15.698	15.698	(1.018)	165626	4.00000	4.050
	105 m,p-Xylenes	106	15.932	15.932	(1.033)	129719	8.00000	7.845
	107 o-Xylene	106	16.672	16.672	(1.081)	64568	4.00000	3.975
	108 Styrene	104	16.726	16.726	(1.085)	79942	4.00000	3.509
	110 Bromoform	173	17.051	17.051	(1.106)	105737	4.00000	3.367
$	114 4-Bromofluorobenzene	95	17.673	17.673	(1.146)	1530153	50.0000	49.09
	116 1,1,2,2-Tetrachloroethane	83	17.971	17.971	(1.166)	144082	4.00000	4.081

M1
4/22/05

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04212.D Page 3
Report Date: 22-Apr-2005 09:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
123 4-Ethyl Toluene	105	18.421	18.421	(1.195)	139132	4.00000	3.745
124 1,3,5-Trimethylbenzene	105	18.530	18.530	(1.202)	146547	4.00000	3.853
131 1,2,4-Trimethylbenzene	120	19.296	19.296	(1.252)	50573	4.00000	3.829
134 1,3-Dichlorobenzene	146	19.846	19.846	(1.287)	115630	4.00000	3.769
136 1,4-Dichlorobenzene	146	20.036	20.036	(1.299)	119760	4.00000	3.721
138 Benzyl Chloride	91	20.315	20.315	(1.318)	63582	4.00000	2.163(a)
140 1,2-Dichlorobenzene	146	20.775	20.775	(1.347)	115756	4.00000	3.875
144 1,2,4-Trichlorobenzene	180	23.274	23.274	(1.509)	58114	4.00000	4.096(a)
145 Hexachlorobutadiene	225	23.409	23.409	(1.518)	104164	4.00000	4.136

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

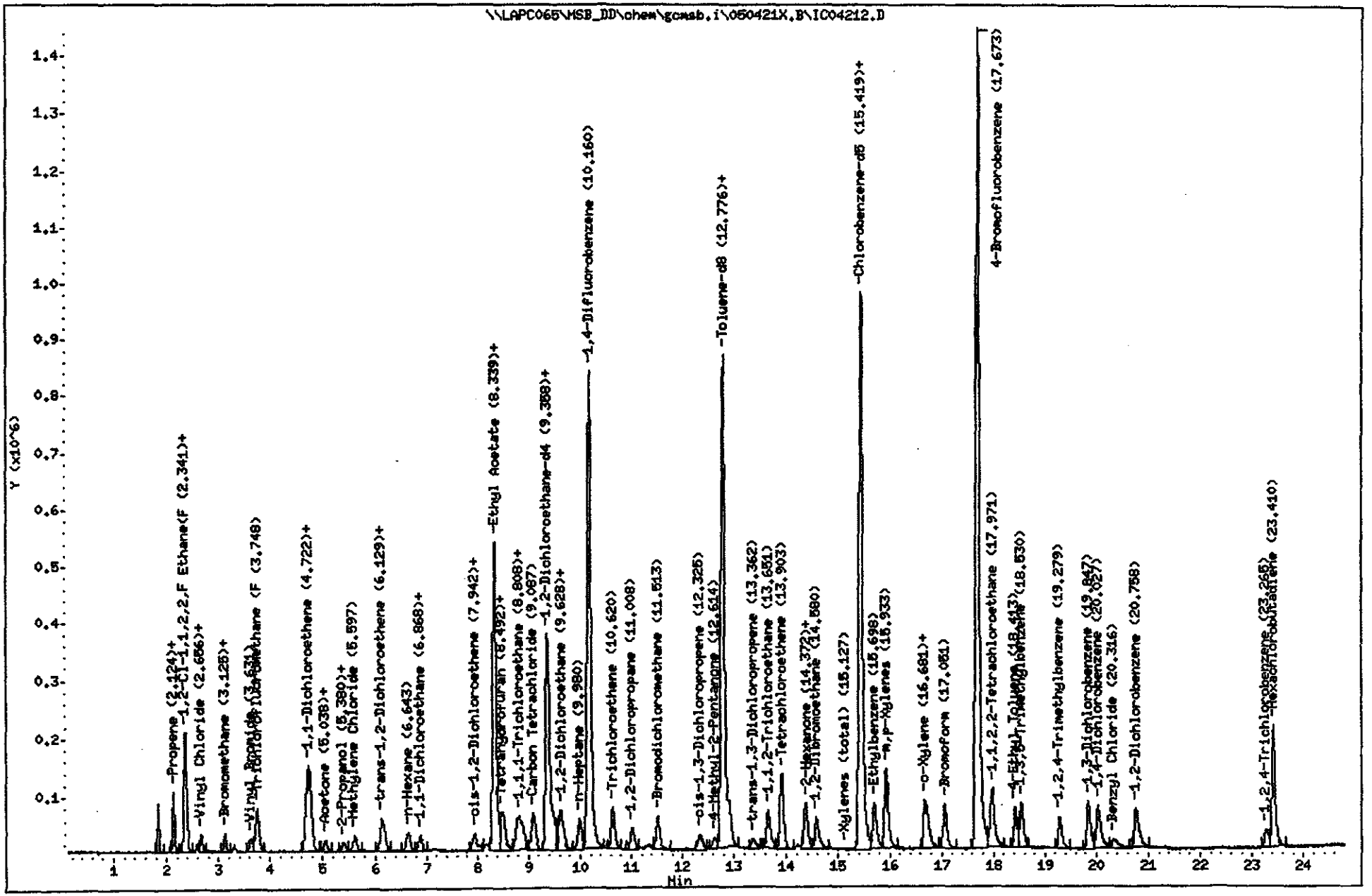
Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04212.D
Date : 21-APR-2005 22:33
Client ID: MSL0501510
Sample Info: 4.0PPBV,MSL0501510,, ICAL(LEVEL2)

Instrument: gcmsb.i

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04213.D
Lab Smp Id: 10.0PPBV Client Smp ID: MSL0501510
Inj Date : 21-APR-2005 23:09
Operator : AA Inst ID: gcmsb.i
Smp Info : 10.0PPBV,MSL0501510,, ICAL(LEVEL3)
Misc Info : 1,1,100,100,1,3,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 09:31 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 01:35 Cal File: IC04217.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	100.000	CalVol
SmpVol	100.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.058	2.063	(0.247)	19955	10.0000	9.468
3 Dichlorodifluoromethane (F12)	85	2.130	2.135	(0.256)	326848	10.0000	9.945
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.356	2.361	(0.283)	360668	10.0000	9.837
8 Chloromethane	52	2.410	2.406	(0.289)	12707	10.0000	10.29
9 Vinyl Chloride	62	2.590	2.595	(0.311)	54102	10.0000	9.464
12 1,3-Butadiene	39	2.671	2.677	(0.321)	62275	20.0000	19.14
15 Bromomethane	94	3.122	3.137	(0.375)	86956	10.0000	9.248
16 Chloroethane	64	3.312	3.317	(0.397)	35558	10.0000	9.325
19 Vinyl Bromide	106	3.627	3.633	(0.435)	100593	10.0000	9.314
21 Trichlorofluoromethane (F11)	101	3.754	3.768	(0.450)	354884	10.0000	9.671
28 1,1-Dichloroethene	61	4.701	4.706	(0.564)	144018	10.0000	9.670
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.746	4.742	(0.569)	429124	10.0000	9.899
31 Acetone	58	4.926	4.868	(0.591)	18413	10.0000	9.731(a)
33 Carbon Disulfide	76	5.061	5.058	(0.607)	160058	10.0000	8.889(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.269	5.229	(0.632)	44455	10.0000	7.534
	36 Allyl Chloride	41	5.386	5.391	(0.646)	68860	10.0000	9.329
	37 Methylene Chloride	49	5.603	5.599	(0.672)	79443	10.0000	9.438
	40 Acrylonitrile	53	6.171	6.104	(0.740)	16097	10.0000	5.825
	41 trans-1,2-Dichloroethene	61	6.126	6.122	(0.735)	120403	10.0000	9.338
	42 Methyl-tert-butyl ether[MTBE]	73	6.153	6.158	(0.738)	214746	10.0000	9.506(a)
	43 n-Hexane	41	6.640	6.645	(0.797)	81704	10.0000	9.740(a)
	44 1,1-Dichloroethane	63	6.865	6.871	(0.824)	163676	10.0000	9.393
	45 Vinyl Acetate	43	7.091	7.051	(0.851)	93672	10.0000	6.799(a)
	53 cis-1,2-Dichloroethene	96	7.939	7.935	(0.952)	102416	10.0000	9.323
	54 2-Butanone	72	8.020	7.989	(0.962)	27021	10.0000	8.276(a)
	56 Ethyl Acetate	43	8.155	8.142	(0.978)	121352	10.0000	8.758
*	58 Bromochloromethane	49	8.335	8.350	(1.000)	566634	50.0000	
	59 Tetrahydrofuran	42	8.462	8.440	(1.015)	59379	10.0000	9.663(a)
	60 Chloroform	83	8.516	8.512	(1.022)	238200	10.0000	9.675
	61 1,1,1-Trichloroethane	97	8.804	8.801	(1.056)	248496	10.0000	9.488
	62 Cyclohexane	84	8.886	8.900	(1.066)	120074	10.0000	9.788(a)
	64 Carbon Tetrachloride	117	9.111	9.098	(1.093)	272436	10.0000	9.590
$	66 1,2-Dichloroethane-d4	65	9.355	9.369	(0.920)	577698	50.0000	49.89
	68 Benzene	78	9.463	9.468	(0.931)	219771	10.0000	10.10
	69 1,2-Dichloroethane	62	9.499	9.504	(0.934)	133000	10.0000	10.42
	70 2,2,4-Trimethylpentane	57	9.634	9.630	(0.948)	440597	10.0000	10.15
	72 n-Heptane	43	9.986	9.982	(0.982)	130746	10.0000	9.944(a)
*	73 1,4-Difluorobenzene	114	10.166	10.172	(1.000)	1924988	50.0000	
	75 Trichloroethene	130	10.626	10.623	(1.045)	188321	10.0000	9.893
	78 1,2-Dichloropropane	76	11.005	10.992	(1.083)	54042	10.0000	10.07
	81 1,4-Dioxane	88	11.294	11.272	(1.111)	56267	10.0000	9.988(a)
	82 Bromodichloromethane	85	11.501	11.497	(1.131)	172236	10.0000	9.655
	85 cis-1,3-Dichloropropene	75	12.322	12.300	(1.212)	147878	10.0000	9.349
	86 4-Methyl-2-Pentanone	58	12.602	12.589	(1.240)	55148	10.0000	8.152(a)
$	88 Toluene-d8	100	12.773	12.778	(1.256)	1009244	50.0000	48.83
	89 Toluene	91	12.899	12.895	(1.269)	305857	10.0000	10.20
	91 trans-1,3-Dichloropropene	75	13.332	13.310	(0.864)	107954	10.0000	9.092
	93 1,1,2-Trichloroethane	97	13.639	13.626	(0.884)	158922	10.0000	10.22
	95 Tetrachloroethene	166	13.891	13.905	(0.901)	299547	10.0000	10.38
	96 2-Hexanone	58	14.135	14.095	(0.916)	58330	10.0000	7.379(a)
	97 Dibromochloromethane	129	14.351	14.347	(0.930)	316893	10.0000	9.904
	98 1,2-Dibromoethane	107	14.568	14.546	(0.944)	303531	10.0000	10.27
*	101 Chlorobenzene-d5	117	15.424	15.421	(1.000)	1608569	50.0000	
	102 Chlorobenzene	112	15.479	15.475	(1.004)	303541	10.0000	10.03
M	99 Xylenes (total)	106				487975	30.0000	29.42
	104 Ethylbenzene	91	15.695	15.691	(1.018)	420662	10.0000	10.26
	105 m,p-Xylenes	106	15.921	15.917	(1.032)	326681	20.0000	19.52
	107 o-Xylene	106	16.669	16.665	(1.081)	161293	10.0000	9.903
	108 Styrene	104	16.714	16.692	(1.084)	216107	10.0000	9.456
	110 Bromoform	173	17.048	17.035	(1.105)	307522	10.0000	9.766
$	114 4-Bromofluorobenzene	95	17.670	17.675	(1.146)	1525221	50.0000	48.80

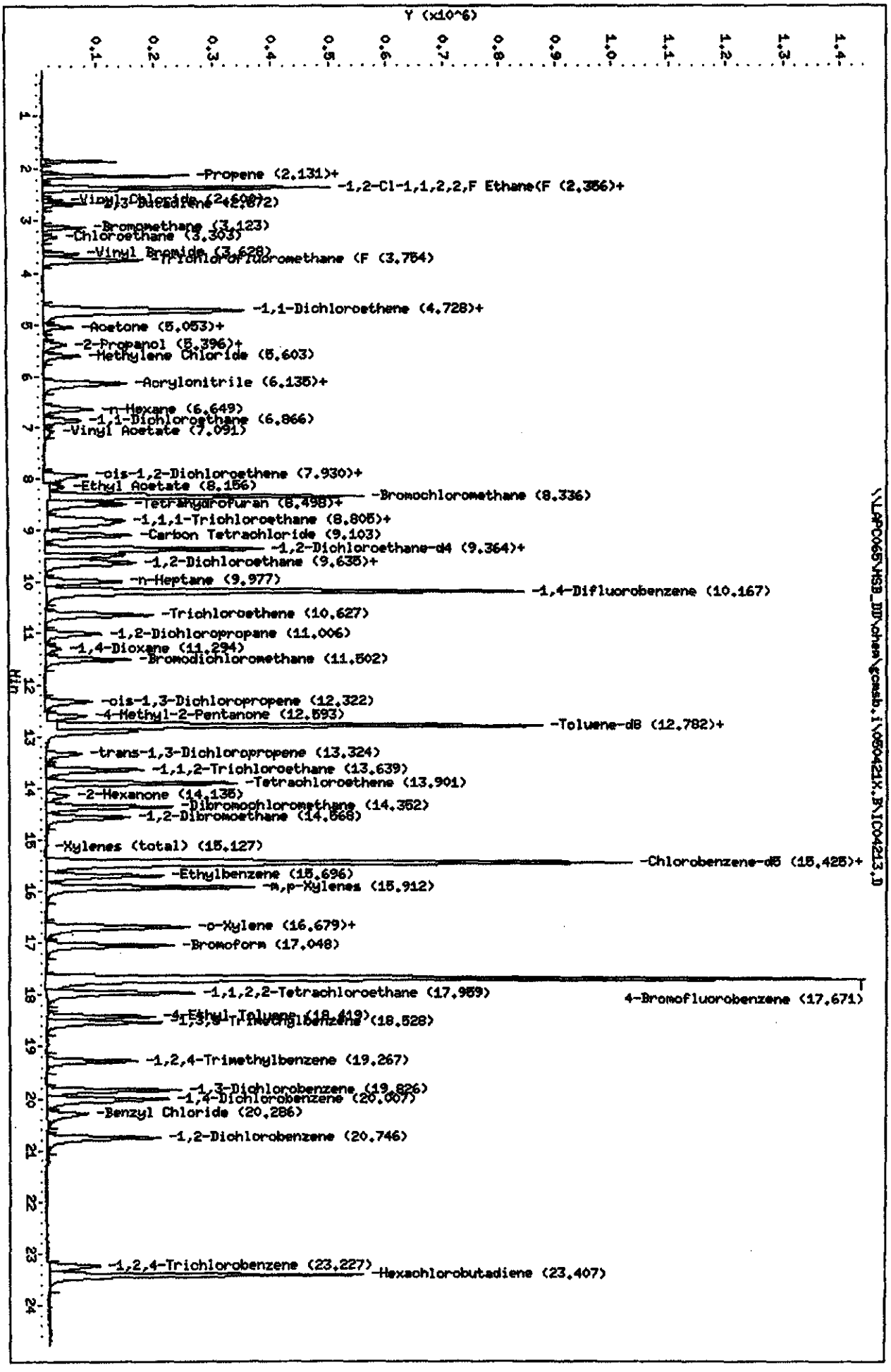
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
116 1,1,2,2-Tetrachloroethane	83	17.959	17.946	(1.164)	368566	10.0000	10.42
123 4-Ethyl Toluene	105	18.419	18.406	(1.194)	374779	10.0000	10.06
124 1,3,5-Trimethylbenzene	105	18.536	18.523	(1.202)	378917	10.0000	9.843
131 1,2,4-Trimethylbenzene	120	19.276	19.263	(1.250)	133309	10.0000	10.07
134 1,3-Dichlorobenzene	146	19.835	19.813	(1.286)	302389	10.0000	9.809
136 1,4-Dichlorobenzene	146	20.006	19.993	(1.297)	320219	10.0000	9.772
138 Benzyl Chloride	91	20.286	20.264	(1.315)	199940	10.0000	6.784(a)
140 1,2-Dichlorobenzene	146	20.746	20.733	(1.345)	289559	10.0000	9.724
144 1,2,4-Trichlorobenzene	180	23.217	23.186	(1.505)	141709	10.0000	9.963(a)
145 Hexachlorobutadiene	225	23.406	23.403	(1.517)	258602	10.0000	10.24

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\LAPC065\HSB_DDY\chem\gcmsb.i\0604213.B\IC04213.D
Date : 21-APR-2006 23:09
Client ID: HSL0601510
Sample Info: 10.0PPBV,HSL0601510,, ICAL(LEVEL3)
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04214.D
Lab Smp Id: 25.0PPBV Client Smp ID: MSL0501510
Inj Date : 21-APR-2005 23:45
Operator : AA Inst ID: gcmsb.i
Smp Info : 25.0PPBV,MSL0501510,, ICAL(LEVEL4)
Misc Info : 1,1,250,250,1,4,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 08:43 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 01:35 Cal File: IC04217.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	250.000	CalVol
SmpVol	250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.058	2.055	(0.247)	47668	25.0000	25.81
3 Dichlorodifluoromethane (F12)	85	2.121	2.137	(0.255)	778392	25.0000	27.03
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.356	2.371	(0.283)	867154	25.0000	26.99
8 Chloromethane	52	2.401	2.416	(0.288)	28692	25.0000	26.51
9 Vinyl Chloride	62	2.590	2.606	(0.311)	130289	25.0000	26.02
12 1,3-Butadiene	39	2.662	2.678	(0.319)	145814	50.0000	50.92
15 Bromomethane	94	3.122	3.183	(0.375)	209136	25.0000	25.37
16 Chloroethane	64	3.303	3.363	(0.396)	82751	25.0000	24.77
19 Vinyl Bromide	106	3.627	3.688	(0.435)	245482	25.0000	25.89
21 Trichlorofluoromethane (F11)	101	3.754	3.814	(0.450)	847452	25.0000	26.36
28 1,1-Dichloroethene	61	4.692	4.743	(0.563)	342737	25.0000	26.26
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.737	4.788	(0.568)	999802	25.0000	26.32
31 Acetone	58	4.881	4.869	(0.586)	47146	25.0000	27.44
33 Carbon Disulfide	76	5.053	5.095	(0.606)	411066	25.0000	26.02

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04214.D Page 2
Report Date: 22-Apr-2005 08:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.242	5.221	(0.629)	136006	25.0000	26.31
	36 Allyl Chloride	41	5.377	5.420	(0.645)	174466	25.0000	26.98
	37 Methylene Chloride	49	5.603	5.645	(0.672)	186726	25.0000	25.30
	40 Acrylonitrile	53	6.126	6.105	(0.735)	62432	25.0000	40.83
	41 trans-1,2-Dichloroethene	61	6.108	6.141	(0.733)	304731	25.0000	26.89
	42 Methyl-tert-butyl ether[MTBE]	73	6.135	6.177	(0.736)	513134	25.0000	25.92
	43 n-Hexane	41	6.649	6.673	(0.798)	192136	25.0000	26.14
	44 1,1-Dichloroethane	63	6.856	6.899	(0.823)	402001	25.0000	26.44
	45 Vinyl Acetate	43	7.055	7.043	(0.846)	316693	25.0000	40.71
	53 cis-1,2-Dichloroethene	96	7.930	7.936	(0.951)	255600	25.0000	26.55
	54 2-Butanone	72	7.993	7.990	(0.959)	71198	25.0000	24.95
	56 Ethyl Acetate	43	8.146	8.125	(0.977)	358609	25.0000	26.26
*	58 Bromochloromethane	49	8.335	8.360	(1.000)	496466	50.0000	
	59 Tetrahydrofuran	42	8.444	8.441	(1.013)	133573	25.0000	25.42
	60 Chloroform	83	8.507	8.522	(1.021)	569489	25.0000	26.40
	61 1,1,1-Trichloroethane	97	8.804	8.829	(1.056)	600331	25.0000	26.17
	62 Cyclohexane	84	8.886	8.919	(1.066)	285247	25.0000	26.68
	64 Carbon Tetrachloride	117	9.093	9.117	(1.091)	657990	25.0000	26.44
$	66 1,2-Dichloroethane-d4	65	9.364	9.370	(0.921)	544647	50.0000	49.81
	68 Benzene	78	9.463	9.478	(0.931)	525594	25.0000	25.53
	69 1,2-Dichloroethane	62	9.499	9.505	(0.934)	307475	25.0000	25.64
	70 2,2,4-Trimethylpentane	57	9.634	9.650	(0.948)	1057359	25.0000	25.81
	72 n-Heptane	43	9.986	10.001	(0.982)	321003	25.0000	25.93
*	73 1,4-Difluorobenzene	114	10.166	10.182	(1.000)	1817745	50.0000	
	75 Trichloroethene	130	10.617	10.615	(1.044)	467667	25.0000	26.02
	78 1,2-Dichloropropane	76	10.996	11.002	(1.082)	129471	25.0000	25.55
	81 1,4-Dioxane	88	11.267	11.273	(1.108)	138948	25.0000	30.32
	82 Bromodichloromethane	85	11.501	11.498	(1.131)	445281	25.0000	26.44
	85 cis-1,3-Dichloropropene	75	12.313	12.310	(1.211)	399037	25.0000	26.71
	86 4-Methyl-2-Pentanone	58	12.593	12.599	(1.239)	157996	25.0000	24.76
$	88 Toluene-d8	100	12.782	12.788	(1.257)	968125	50.0000	49.60
	89 Toluene	91	12.899	12.914	(1.269)	728865	25.0000	25.72
	91 trans-1,3-Dichloropropene	75	13.314	13.311	(0.863)	311823	25.0000	27.90
	93 1,1,2-Trichloroethane	97	13.630	13.636	(0.884)	384670	25.0000	26.20
	95 Tetrachloroethene	166	13.900	13.907	(0.901)	714473	25.0000	26.27
	96 2-Hexanone	58	14.108	14.114	(0.915)	178005	25.0000	27.59(a)
	97 Dibromochloromethane	129	14.351	14.358	(0.930)	833562	25.0000	27.60
	98 1,2-Dibromoethane	107	14.550	14.565	(0.943)	751953	25.0000	26.46
*	101 Chlorobenzene-d5	117	15.425	15.431	(1.000)	1518529	50.0000	
	102 Chlorobenzene	112	15.479	15.485	(1.004)	737635	25.0000	25.03
M	99 Xylenes (total)	106				1234674	75.0000	78.84
	104 Ethylbenzene	91	15.686	15.701	(1.017)	1034146	25.0000	26.76
	105 m,p-Xylenes	106	15.912	15.927	(1.032)	832241	50.0000	52.68
	107 o-Xylene	106	16.660	16.675	(1.080)	402433	25.0000	26.15
	108 Styrene	104	16.696	16.703	(1.082)	582030	25.0000	26.98
	110 Bromoform	173	17.039	17.045	(1.105)	834864	25.0000	28.02
$	114 4-Bromofluorobenzene	95	17.670	17.677	(1.146)	1472915	50.0000	49.93

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04214.D Page 3
Report Date: 22-Apr-2005 08:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
116 1,1,2,2-Tetrachloroethane	83	17.950	17.947	(1.164)	899472	25.0000	26.92
123 4-Ethyl Toluene	105	18.410	18.407	(1.194)	914690	25.0000	25.98
124 1,3,5-Trimethylbenzene	105	18.527	18.533	(1.201)	867169	25.0000	23.86
131 1,2,4-Trimethylbenzene	120	19.258	19.273	(1.249)	307804	25.0000	24.57
134 1,3-Dichlorobenzene	146	19.817	19.823	(1.285)	769557	25.0000	26.47
136 1,4-Dichlorobenzene	146	19.997	19.995	(1.296)	772470	25.0000	24.94
138 Benzyl Chloride	91	20.268	20.256	(1.314)	669357	25.0000	24.45
140 1,2-Dichlorobenzene	146	20.737	20.734	(1.344)	731680	25.0000	26.03
144 1,2,4-Trichlorobenzene	180	23.199	23.178	(1.504)	326305	25.0000	24.25
145 Hexachlorobutadiene	225	23.406	23.413	(1.517)	604935	25.0000	25.38

QC Flag Legend

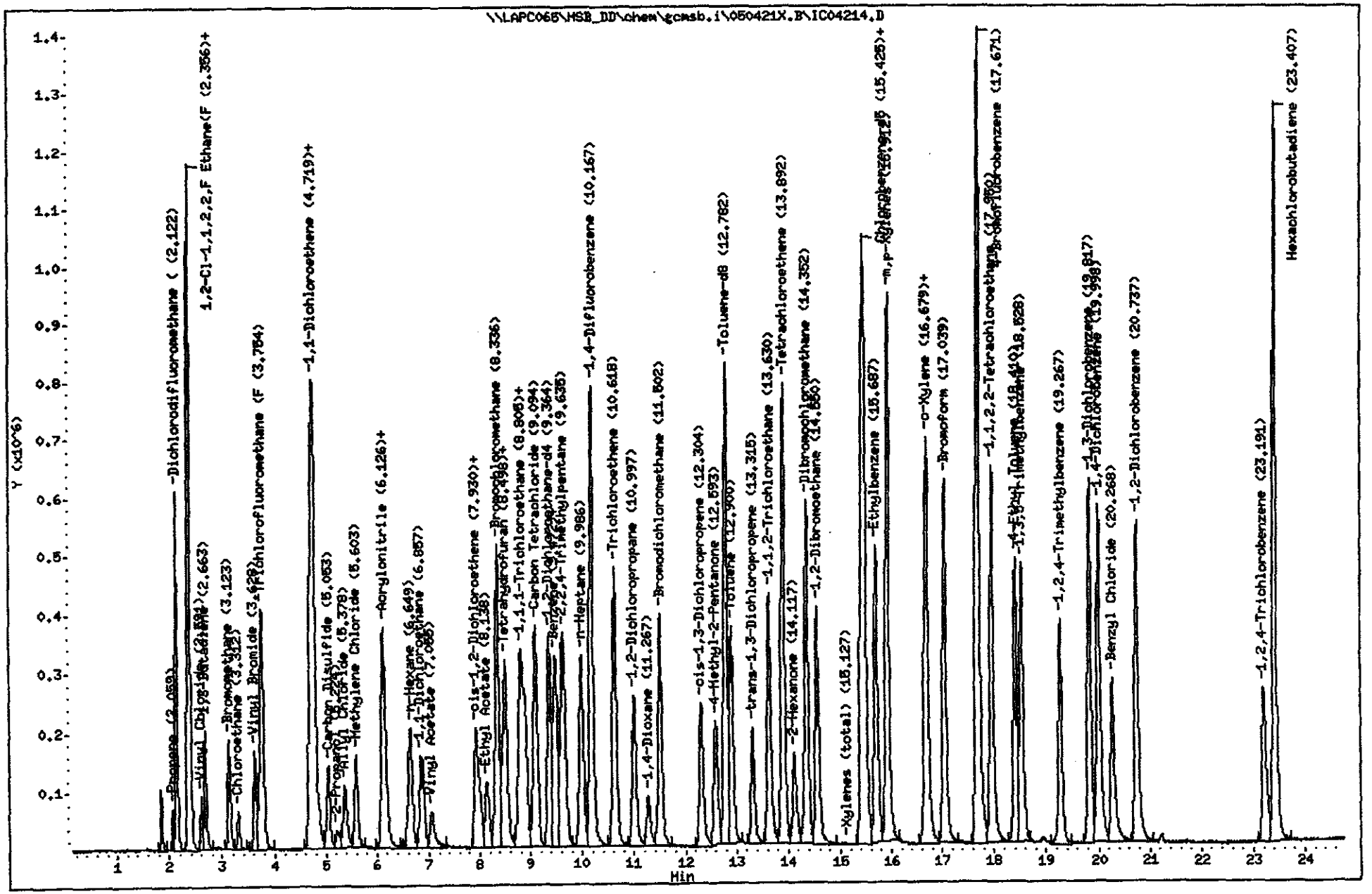
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04214.D
Date : 21-APR-2005 23:45
Client ID: MSL0501510
Sample Info: 25.0PPBV,MSL0501510,, ICAL(LEVEL4)

Instrument: gcmsb.i

Operator: AA
Column diameter: 0.53

Column phase: J&W DB-624



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04215.D
Lab Smp Id: 50.0PPBV Client Smp ID: MSL0501505
Inj Date : 22-APR-2005 00:21
Operator : AA Inst ID: gcmsb.i
Smp Info : 50.0PPBV,MSL0501505,, ICAL(LEVEL5)
Misc Info : 1,1,125,125,1,5,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 08:43 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 01:35 Cal File: IC04217.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	125.000	CalVol
SmpVol	125.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.063	2.055	(0.247)	98016	50.0000	51.14
3 Dichlorodifluoromethane (F12)	85	2.135	2.137	(0.256)	1517516	50.0000	50.78
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.361	2.371	(0.283)	1686747	50.0000	50.60
8 Chloromethane	52	2.406	2.416	(0.288)	58937	50.0000	52.48
9 Vinyl Chloride	62	2.595	2.606	(0.311)	264863	50.0000	50.97
12 1,3-Butadiene	39	2.677	2.678	(0.321)	302945	100.000	101.9
15 Bromomethane	94	3.137	3.183	(0.376)	439900	50.0000	51.42
16 Chloroethane	64	3.317	3.363	(0.397)	178016	50.0000	51.34
19 Vinyl Bromide	106	3.633	3.688	(0.435)	509422	50.0000	51.77
21 Trichlorofluoromethane (F11)	101	3.768	3.814	(0.451)	1672400	50.0000	50.12
28 1,1-Dichloroethene	61	4.706	4.743	(0.564)	692761	50.0000	51.15
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.742	4.788	(0.568)	1992923	50.0000	50.56
31 Acetone	58	4.868	4.869	(0.583)	97360	50.0000	54.60
33 Carbon Disulfide	76	5.058	5.095	(0.606)	874342	50.0000	53.33

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04215.D Page 2
Report Date: 22-Apr-2005 08:46

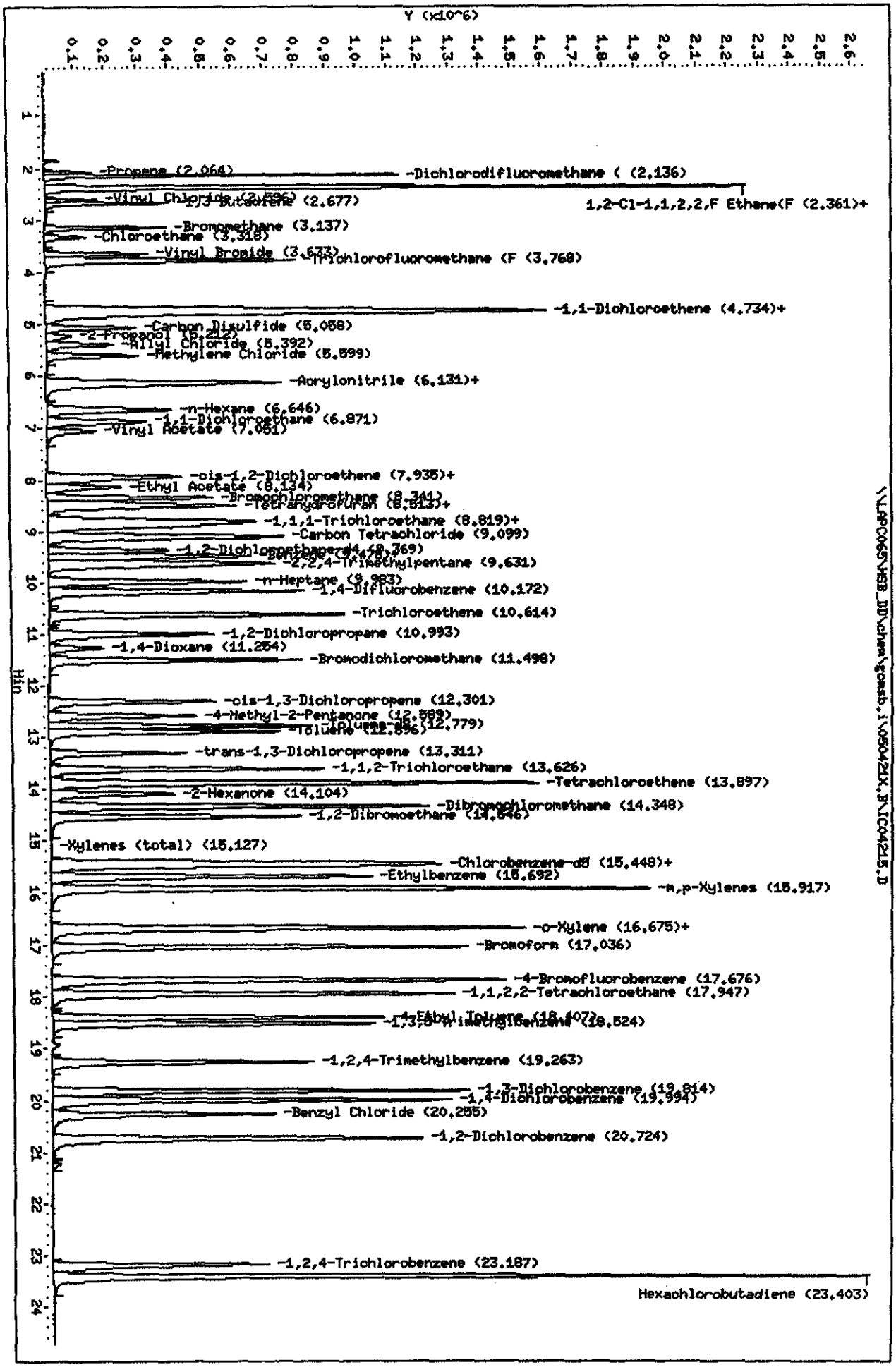
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.229	5.221	(0.626)	301941	50.0000	56.28
	36 Allyl Chloride	41	5.391	5.420	(0.646)	353991	50.0000	52.75
	37 Methylene Chloride	49	5.599	5.645	(0.671)	376291	50.0000	49.12
	40 Acrylonitrile	53	6.104	6.105	(0.731)	131564	50.0000	65.16
	41 trans-1,2-Dichloroethene	61	6.122	6.141	(0.733)	605409	50.0000	51.48
	42 Methyl-tert-butyl ether[MTBE]	73	6.158	6.177	(0.738)	1062111	50.0000	51.70
	43 n-Hexane	41	6.645	6.673	(0.796)	383324	50.0000	50.25
	44 1,1-Dichloroethane	63	6.871	6.899	(0.823)	805358	50.0000	51.05
	45 Vinyl Acetate	43	7.051	7.043	(0.844)	698321	50.0000	72.69
	53 cis-1,2-Dichloroethene	96	7.935	7.936	(0.950)	513569	50.0000	51.40
	54 2-Butanone	72	7.989	7.990	(0.957)	149164	50.0000	50.37
	56 Ethyl Acetate	43	8.142	8.125	(0.975)	727002	50.0000	51.31
*	58 Bromochloromethane	49	8.350	8.360	(1.000)	515227	50.0000	
	59 Tetrahydrofuran	42	8.440	8.441	(1.011)	284317	50.0000	52.15
	60 Chloroform	83	8.512	8.522	(1.019)	1136427	50.0000	50.77
	61 1,1,1-Trichloroethane	97	8.801	8.829	(1.054)	1221042	50.0000	51.30
	62 Cyclohexane	84	8.900	8.919	(1.066)	564223	50.0000	50.85
	64 Carbon Tetrachloride	117	9.098	9.117	(1.090)	1345966	50.0000	52.12
$	66 1,2-Dichloroethane-d4	65	9.369	9.370	(0.921)	569639	50.0000	51.70
	68 Benzene	78	9.468	9.478	(0.931)	1051854	50.0000	50.71
	69 1,2-Dichloroethane	62	9.504	9.505	(0.934)	611191	50.0000	50.58
	70 2,2,4-Trimethylpentane	57	9.630	9.650	(0.947)	2129884	50.0000	51.59
	72 n-Heptane	43	9.982	10.001	(0.981)	630972	50.0000	50.58
*	73 1,4-Difluorobenzene	114	10.172	10.182	(1.000)	1831691	50.0000	
	75 Trichloroethene	130	10.623	10.615	(1.044)	930970	50.0000	51.40
	78 1,2-Dichloropropane	76	10.992	11.002	(1.081)	258524	50.0000	50.63
	81 1,4-Dioxane	88	11.272	11.273	(1.108)	276897	50.0000	59.95
	82 Bromodichloromethane	85	11.497	11.498	(1.130)	930087	50.0000	54.80
	85 cis-1,3-Dichloropropene	75	12.300	12.310	(1.209)	830747	50.0000	55.19
	86 4-Methyl-2-Pentanone	58	12.589	12.599	(1.238)	340101	50.0000	52.90
$	88 Toluene-d8	100	12.778	12.788	(1.256)	990116	50.0000	50.34
	89 Toluene	91	12.895	12.914	(1.268)	1466920	50.0000	51.37
	91 trans-1,3-Dichloropropene	75	13.310	13.311	(0.863)	646272	50.0000	56.82
	93 1,1,2-Trichloroethane	97	13.626	13.636	(0.884)	759843	50.0000	50.85
	95 Tetrachloroethene	166	13.905	13.907	(0.902)	1399224	50.0000	50.55
	96 2-Hexanone	58	14.095	14.114	(0.914)	414538	50.0000	63.13
	97 Dibromochloromethane	129	14.347	14.358	(0.930)	1725521	50.0000	56.13
	98 1,2-Dibromoethane	107	14.546	14.565	(0.943)	1533075	50.0000	53.02
*	101 Chlorobenzene-d5	117	15.421	15.431	(1.000)	1545453	50.0000	
	102 Chlorobenzene	112	15.475	15.485	(1.004)	1478642	50.0000	49.30
M	99 Xylenes (total)	106				2539626	150.000	159.4
	104 Ethylbenzene	91	15.691	15.701	(1.018)	2091714	50.0000	53.17
	105 m,p-Xylenes	106	15.917	15.927	(1.032)	1701578	100.000	105.8
	107 o-Xylene	106	16.665	16.675	(1.081)	838047	50.0000	53.52
	108 Styrene	104	16.692	16.703	(1.082)	1245026	50.0000	56.71
	110 Bromoform	173	17.035	17.045	(1.105)	1754602	50.0000	57.87
$	114 4-Bromofluorobenzene	95	17.675	17.677	(1.146)	1524940	50.0000	50.79

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04215.D Page 3
Report Date: 22-Apr-2005 08:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
116 1,1,2,2-Tetrachloroethane	83	17.946	17.947	(1.164)	1821729	50.0000	53.57
123 4-Ethyl Toluene	105	18.406	18.407	(1.194)	1998045	50.0000	55.76
124 1,3,5-Trimethylbenzene	105	18.523	18.533	(1.201)	1843703	50.0000	49.85
131 1,2,4-Trimethylbenzene	120	19.263	19.273	(1.249)	672727	50.0000	52.76
134 1,3-Dichlorobenzene	146	19.813	19.823	(1.285)	1640541	50.0000	55.45
136 1,4-Dichlorobenzene	146	19.993	19.995	(1.297)	1659884	50.0000	52.65
138 Benzyl Chloride	91	20.264	20.256	(1.314)	1568294	50.0000	56.29
140 1,2-Dichlorobenzene	146	20.733	20.734	(1.344)	1547231	50.0000	54.08
144 1,2,4-Trichlorobenzene	180	23.186	23.178	(1.504)	681911	50.0000	49.80
145 Hexachlorobutadiene	225	23.403	23.413	(1.518)	1263014	50.0000	52.08

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050421X.B\IC04215.D
Date : 22-APR-2005 00:21
Client ID: HSL05015D5
Sample Info: 50.0PPBV,HSL05015D5,, ICAL(LEVEL5)
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04216.D
Lab Smp Id: 100PPBV Client Smp ID: MSL0501505
Inj Date : 22-APR-2005 00:57
Operator : AA Inst ID: gcmsb.i
Smp Info : 100PPBV,MSL0501505,, ICAL(LEVEL6)
Misc Info : 1,1,250,250,1,6,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 08:43 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 01:35 Cal File: IC04217.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	250.000	CalVol
SmpVol	250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.044	2.055	(0.245)	187813	100.000	94.40
3 Dichlorodifluoromethane (F12)	85	2.125	2.137	(0.255)	2897456	100.000	93.40
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.359	2.371	(0.283)	3237182	100.000	93.54
8 Chloromethane	52	2.395	2.416	(0.287)	109337	100.000	93.78
9 Vinyl Chloride	62	2.594	2.606	(0.311)	529202	100.000	98.10
12 1,3-Butadiene	39	2.666	2.678	(0.320)	613191	200.000	198.8
15 Bromomethane	94	3.135	3.183	(0.376)	878242	100.000	98.89
16 Chloroethane	64	3.315	3.363	(0.398)	339624	100.000	94.35
19 Vinyl Bromide	106	3.631	3.688	(0.435)	1012220	100.000	99.09
21 Trichlorofluoromethane (F11)	101	3.766	3.814	(0.452)	3262682	100.000	94.19
28 1,1-Dichloroethene	61	4.704	4.743	(0.564)	1367356	100.000	97.26
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.740	4.788	(0.568)	3828896	100.000	93.57
31 Acetone	58	4.849	4.869	(0.581)	197814	100.000	106.9
33 Carbon Disulfide	76	5.047	5.095	(0.605)	1792713	100.000	105.3

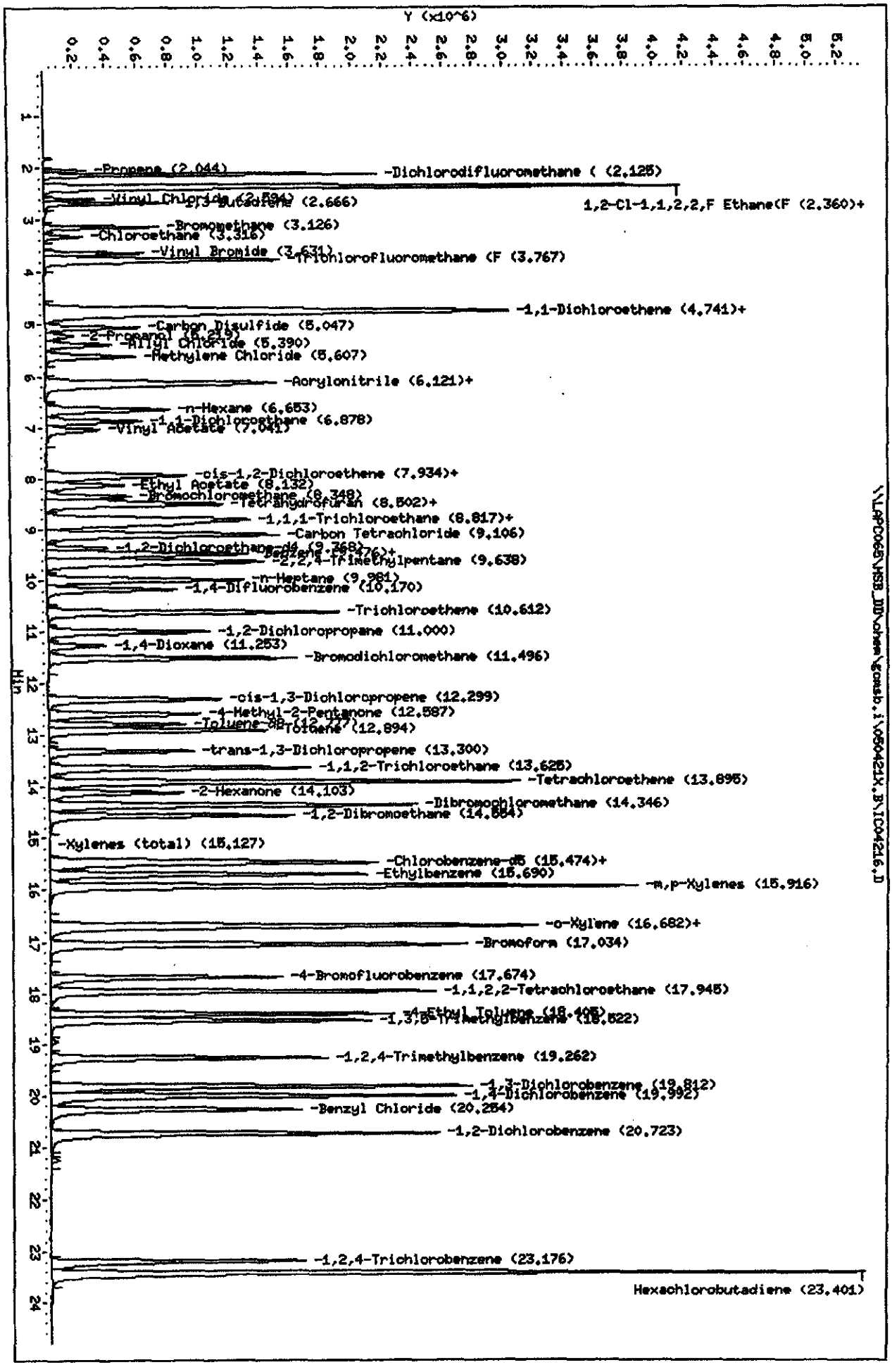
Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04216.D Page 2
Report Date: 22-Apr-2005 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.218	5.221	(0.626)	633207	100.000	113.7
	36 Allyl Chloride	41	5.381	5.420	(0.645)	714360	100.000	102.5
	37 Methylene Chloride	49	5.606	5.645	(0.672)	728929	100.000	91.67
	40 Acrylonitrile	53	6.093	6.105	(0.731)	286487	100.000	109.8
	41 trans-1,2-Dichloroethene	61	6.120	6.141	(0.734)	1227603	100.000	100.5
	42 Methyl-tert-butyl ether[MTBE]	73	6.147	6.177	(0.737)	2143121	100.000	100.5
	43 n-Hexane	41	6.652	6.673	(0.798)	773432	100.000	97.67
	44 1,1-Dichloroethane	63	6.878	6.899	(0.825)	1601880	100.000	97.81
	45 Vinyl Acetate	43	7.040	7.043	(0.844)	1415219	100.000	122.3
	53 cis-1,2-Dichloroethene	96	7.933	7.936	(0.951)	1043864	100.000	100.6
	54 2-Butanone	72	7.978	7.990	(0.957)	319808	100.000	104.0
	56 Ethyl Acetate	43	8.132	8.125	(0.975)	1449714	100.000	98.56
*	58 Bromochloromethane	49	8.339	8.360	(1.000)	534869	50.0000	
	59 Tetrahydrofuran	42	8.447	8.441	(1.013)	566913	100.000	100.2
	60 Chloroform	83	8.510	8.522	(1.021)	2247028	100.000	96.70
	61 1,1,1-Trichloroethane	97	8.808	8.829	(1.056)	2445181	100.000	98.96
	62 Cyclohexane	84	8.907	8.919	(1.068)	1123293	100.000	97.51
	64 Carbon Tetrachloride	117	9.106	9.117	(1.092)	2700154	100.000	100.7
$	66 1,2-Dichloroethane-d4	65	9.367	9.370	(0.921)	556451	50.0000	49.86
	68 Benzene	78	9.466	9.478	(0.931)	2068661	100.000	98.48
	69 1,2-Dichloroethane	62	9.502	9.505	(0.934)	1216238	100.000	99.38
	70 2,2,4-Trimethylpentane	57	9.638	9.650	(0.948)	4172190	100.000	99.78
	72 n-Heptane	43	9.980	10.001	(0.981)	1283339	100.000	101.6
*	73 1,4-Difluorobenzene	114	10.170	10.182	(1.000)	1855067	50.0000	
	75 Trichloroethene	130	10.612	10.615	(1.043)	1847964	100.000	100.7
	78 1,2-Dichloropropane	76	11.000	11.002	(1.082)	512088	100.000	99.02
	81 1,4-Dioxane	88	11.261	11.273	(1.107)	578579	100.000	123.7
	82 Bromodichloromethane	85	11.496	11.498	(1.130)	1858145	100.000	108.1
	85 cis-1,3-Dichloropropene	75	12.298	12.310	(1.209)	1725958	100.000	113.2
	86 4-Methyl-2-Pentanone	58	12.587	12.599	(1.238)	709441	100.000	109.0
$	88 Toluene-d8	100	12.776	12.788	(1.256)	1003808	50.0000	50.40
	89 Toluene	91	12.903	12.914	(1.269)	2884858	100.000	99.76
	91 trans-1,3-Dichloropropene	75	13.308	13.311	(0.863)	1371130	100.000	117.7
	93 1,1,2-Trichloroethane	97	13.624	13.636	(0.883)	1502026	100.000	98.17
	95 Tetrachloroethene	166	13.895	13.907	(0.901)	2711426	100.000	95.67
	96 2-Hexanone	58	14.102	14.114	(0.914)	856095	100.000	127.3
	97 Dibromochloromethane	129	14.346	14.358	(0.930)	3445069	100.000	109.5
	98 1,2-Dibromoethane	107	14.553	14.565	(0.943)	3048568	100.000	103.0
*	101 Chlorobenzene-d5	117	15.428	15.431	(1.000)	1582309	50.0000	
	102 Chlorobenzene	112	15.473	15.485	(1.003)	2920048	100.000	95.10
M	99 Xylenes (total)	106				5075066	300.000	311.0
	104 Ethylbenzene	91	15.690	15.701	(1.017)	4112575	100.000	102.1
	105 m,p-Xylenes	106	15.915	15.927	(1.032)	3402037	200.000	206.7
	107 o-Xylene	106	16.664	16.675	(1.080)	1673028	100.000	104.3
	108 Styrene	104	16.691	16.703	(1.082)	2565188	100.000	114.1
	110 Bromoform	173	17.033	17.045	(1.104)	3562240	100.000	114.7
$	114 4-Bromofluorobenzene	95	17.674	17.677	(1.146)	1564379	50.0000	50.89

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
116 1,1,2,2-Tetrachloroethane	83	17.944	17.947	(1.163)	3568783	100.000	102.5
123 4-Ethyl Toluene	105	18.404	18.407	(1.193)	4396584	100.000	119.8
124 1,3,5-Trimethylbenzene	105	18.531	18.533	(1.201)	3747480	100.000	98.97
131 1,2,4-Trimethylbenzene	120	19.261	19.273	(1.248)	1436296	100.000	110.0
134 1,3-Dichlorobenzene	146	19.811	19.823	(1.284)	3356288	100.000	110.8
136 1,4-Dichlorobenzene	146	19.992	19.995	(1.296)	3385199	100.000	104.9
138 Benzyl Chloride	91	20.253	20.256	(1.313)	3442934	100.000	120.7
140 1,2-Dichlorobenzene	146	20.731	20.734	(1.344)	3144225	100.000	107.3
144 1,2,4-Trichlorobenzene	180	23.175	23.178	(1.502)	1440864	100.000	102.8
145 Hexachlorobutadiene	225	23.410	23.413	(1.517)	2564889	100.000	103.3

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050421X.B\IC04216.D
Date : 22-APR-2005 00:57
Client ID: HSL05015O5
Sample Info: 100PPBV,HSL05015O5,, ICAL(LEVEL6)
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04217.D
Lab Smp Id: 500PPBV Client Smp ID: MSL0501505
Inj Date : 22-APR-2005 01:35
Operator : AA Inst ID: gcmsb.i
Smp Info : 500PPBV,MSL0501505,, ICAL(LEVEL7)
Misc Info : 1,1,1250,1250,1,7,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\TO14A.m
Meth Date : 22-Apr-2005 08:43 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 01:35 Cal File: IC04217.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	1250.000	CalVol
SmpVol	1250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.055	2.055	(0.246)	901180	500.000	497.0
3 Dichlorodifluoromethane (F12)	85	2.137	2.137	(0.256)	10873753	500.000	384.5
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.371	2.371	(0.284)	13042798	500.000	413.5
8 Chloromethane	52	2.416	2.416	(0.289)	254335	500.000	239.3
9 Vinyl Chloride	62	2.606	2.606	(0.312)	2619873	500.000	532.7(A)
12 1,3-Butadiene	39	2.678	2.678	(0.320)	2948881	1000.00	1048(A)
15 Bromomethane	94	3.183	3.183	(0.381)	4085631	500.000	505.0(A)
16 Chloroethane	64	3.363	3.363	(0.402)	1647074	500.000	502.0(A)
19 Vinyl Bromide	106	3.688	3.688	(0.441)	4932187	500.000	529.7(A)
21 Trichlorofluoromethane (F11)	101	3.814	3.814	(0.456)	14730634	500.000	466.6
28 1,1-Dichloroethene	61	4.743	4.743	(0.567)	6322856	500.000	493.4
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.788	4.788	(0.573)	16740888	500.000	448.9
31 Acetone	58	4.869	4.869	(0.583)	1058099	500.000	626.7(A)
33 Carbon Disulfide	76	5.095	5.095	(0.609)	9086176	500.000	585.8(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
34 2-Propanol	45	5.221	5.221	(0.625)	3448217	500.000	679.3(A)
36 Allyl Chloride	41	5.420	5.420	(0.648)	3650561	500.000	574.8(A)
37 Methylene Chloride	49	5.645	5.645	(0.675)	3544771	500.000	489.1
40 Acrylonitrile	53	6.105	6.105	(0.730)	1475029	500.000	620.4(A)
41 trans-1,2-Dichloroethene	61	6.141	6.141	(0.735)	5820377	500.000	523.0(A)
42 Methyl-tert-butyl ether[MTBE]	73	6.177	6.177	(0.739)	10226847	500.000	526.2(A)
43 n-Hexane	41	6.673	6.673	(0.798)	3750812	500.000	519.7(A)
44 1,1-Dichloroethane	63	6.899	6.899	(0.825)	7668960	500.000	513.7(A)
45 Vinyl Acetate	43	7.043	7.043	(0.842)	6325752	500.000	532.6(A)
53 cis-1,2-Dichloroethene	96	7.936	7.936	(0.949)	5027554	500.000	531.8(A)
54 2-Butanone	72	7.990	7.990	(0.956)	1592849	500.000	568.5(A)
56 Ethyl Acetate	43	8.125	8.125	(0.972)	7297068	500.000	511.9(A)
* 58 Bromochloromethane	49	8.360	8.360	(1.000)	487511	50.0000	
59 Tetrahydrofuran	42	8.441	8.441	(1.010)	2882540	500.000	559.0(A)
60 Chloroform	83	8.522	8.522	(1.019)	10364133	500.000	489.2
61 1,1,1-Trichloroethane	97	8.829	8.829	(1.056)	11346612	500.000	503.8(A)
62 Cyclohexane	84	8.919	8.919	(1.067)	5464339	500.000	519.4(A)
64 Carbon Tetrachloride	117	9.117	9.117	(1.091)	12409235	500.000	507.9(A)
$ 66 1,2-Dichloroethane-d4	65	9.370	9.370	(0.920)	577070	50.0000	48.86
68 Benzene	78	9.478	9.478	(0.931)	9630913	500.000	433.1
69 1,2-Dichloroethane	62	9.505	9.505	(0.934)	5768404	500.000	445.4
70 2,2,4-Trimethylpentane	57	9.650	9.650	(0.948)	18446985	500.000	416.8
72 n-Heptane	43	10.001	10.001	(0.982)	6160505	500.000	460.7
* 73 1,4-Difluorobenzene	114	10.182	10.182	(1.000)	1963397	50.0000	
75 Trichloroethene	130	10.615	10.615	(1.043)	8509158	500.000	438.3
78 1,2-Dichloropropane	76	11.002	11.002	(1.081)	2535001	500.000	463.1
81 1,4-Dioxane	88	11.273	11.273	(1.107)	2883229	500.000	582.5(A)
82 Bromodichloromethane	85	11.498	11.498	(1.129)	8831245	500.000	485.4
85 cis-1,3-Dichloropropene	75	12.310	12.310	(1.209)	8499995	500.000	527.0(A)
86 4-Methyl-2-Pentanone	58	12.599	12.599	(1.237)	3624482	500.000	525.3(A)
$ 88 Toluene-d8	100	12.788	12.788	(1.256)	1072790	50.0000	50.89
89 Toluene	91	12.914	12.914	(1.268)	12857061	500.000	420.2
91 trans-1,3-Dichloropropene	75	13.311	13.311	(0.863)	6990722	500.000	575.1(A)
93 1,1,2-Trichloroethane	97	13.636	13.636	(0.884)	7007226	500.000	438.8
95 Tetrachloroethene	166	13.907	13.907	(0.901)	11881463	500.000	401.6
96 2-Hexanone	58	14.114	14.114	(0.915)	4526832	500.000	645.1(A)
97 Dibromochloromethane	129	14.358	14.358	(0.930)	14887478	500.000	453.2
98 1,2-Dibromoethane	107	14.565	14.565	(0.944)	13046384	500.000	431.8
* 101 Chlorobenzene-d5	117	15.431	15.431	(1.000)	1651606	50.0000	
102 Chlorobenzene	112	15.485	15.485	(1.004)	12641913	500.000	406.7
M 99 Xylenes (total)	106				22448737	1500.00	1318
104 Ethylbenzene	91	15.701	15.701	(1.018)	16852398	500.000	400.8
105 m,p-Xylenes	106	15.927	15.927	(1.032)	14658079	1000.00	853.0
107 o-Xylene	106	16.675	16.675	(1.081)	7790658	500.000	465.3
108 Styrene	104	16.703	16.703	(1.082)	11651527	500.000	496.6
110 Bromoform	173	17.045	17.045	(1.105)	15171190	500.000	468.4
$ 114 4-Bromofluorobenzene	95	17.677	17.677	(1.146)	1658492	50.0000	51.69

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04217.D Page 3
Report Date: 22-Apr-2005 08:44

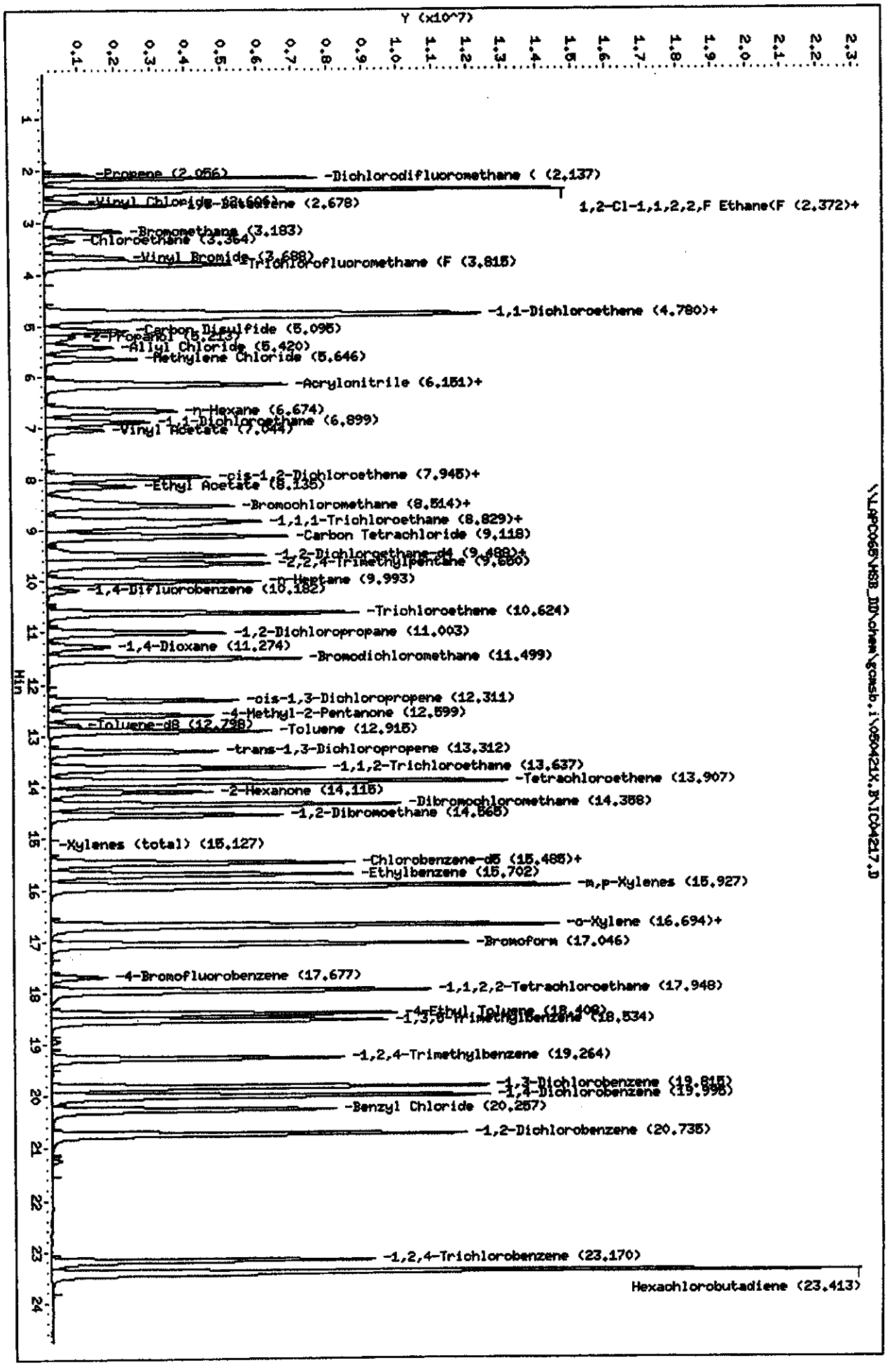
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
116 1,1,2,2-Tetrachloroethane	83	17.947	17.947	(1.163)	14687655	500.000	404.1
123 4-Ethyl Toluene	105	18.407	18.407	(1.193)	17775070	500.000	464.2
124 1,3,5-Trimethylbenzene	105	18.533	18.533	(1.201)	16254917	500.000	411.3
131 1,2,4-Trimethylbenzene	120	19.273	19.273	(1.249)	7069738	500.000	518.9(A)
134 1,3-Dichlorobenzene	146	19.823	19.823	(1.285)	14441644	500.000	457.3
136 1,4-Dichlorobenzene	146	19.995	19.995	(1.296)	14889967	500.000	449.4
138 Benzyl Chloride	91	20.256	20.256	(1.313)	16099764	500.000	532.0(A)
140 1,2-Dichlorobenzene	146	20.734	20.734	(1.344)	13741354	500.000	449.4
144 1,2,4-Trichlorobenzene	180	23.178	23.178	(1.502)	7155385	500.000	490.7
145 Hexachlorobutadiene	225	23.413	23.413	(1.517)	11231878	500.000	433.3

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050421X.B\IC04217.D
Date : 22-APR-2005 01:35
Client ID: MSL0501505
Sample Info: 500PPBV,MSL0501505,, ICAL(LEVEL7)
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



Report Date : 04-Feb-2005 09:05

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Calibration File Names:
Level 1: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02039F.D
Level 2: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02040F.D
Level 3: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02041F.D
Level 4: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02042F.D
Level 5: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02043F.D
Level 6: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02044F.D
Level 7: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\IC02039E.D

ADD-ONS CURVE
AA 2/4/05

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 Propene	0.21125	0.17520	0.16904	0.17475	0.18484	0.16749		
	0.17816						0.18010	8.267
2 Propane	0.05272	0.04197	0.05632	0.05558	0.06237	0.05573		
	0.04930						0.05343	12.010
18 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
3 Dichlorodifluoromethane (F12)	3.18263	2.84878	2.57466	2.61051	2.62727	2.37726		
	2.21178						2.63327	11.963
4 Chlorodifluoromethane (F22)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
7 Dimethyl ether (DME)	0.14512	0.14746	0.17454	0.17836	0.19443	0.17785		
	0.15702						0.16783	10.909
6 2-Methylpropane (Isobutane)	0.52348	0.50099	0.49134	0.46530	0.50285	0.45666		
	0.39656						0.47674	8.829

STL Los Angeles

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Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
5 1,2-Cl-1,1,2,2,F Ethane(F114)	3.69890	3.27952	2.93478	2.92575	2.97568	2.65350		
	2.43001						2.98545	13.813
8 Chloromethane	0.13275	0.10486	0.10416	0.10199	0.10745	0.09403		
	0.08145						0.10381	14.979
9 Vinyl Chloride	0.51878	0.49280	0.47086	0.46239	0.48591	0.44055		
	0.47269						0.47771	5.177
10 n-Butane	0.44568	0.41156	0.41735	0.40567	0.42441	0.39177		
	0.33209						0.40408	8.873
11 2-Methylpropene (Isobutylene)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
12 1,3-Butadiene	0.32301	0.27304	0.25492	0.27139	0.29513	0.27455		
	0.28525						0.28247	7.709
13 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
14 Methanol	0.09001	0.06607	0.06024	0.07053	0.07265	0.06536		
	0.05721						0.06887	15.621
15 Bromomethane	0.79524	0.70544	0.66693	0.66662	0.71851	0.66623		
	0.70401						0.70328	6.550
16 Chloroethane	0.32547	0.32139	0.30624	0.29567	0.30351	0.27937		
	0.29040						0.30315	5.428

STL Los Angeles

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Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
17 2-Methylbutane (Isopentane)	0.41583	0.37031	0.37248	0.36612	0.42040	0.39612		
	0.33134						0.38180	8.188
19 Vinyl Bromide	0.94692	0.88241	0.83093	0.85618	0.91164	0.84730		
	0.88925						0.88066	4.545
20 Dichlorofluoromethane (F21)	1.02979	0.96044	0.99200	0.95784	1.02675	0.93888		
	0.79753						0.95760	8.218
21 Trichlorofluoromethane (F11)	3.24393	2.92426	2.68866	2.74646	2.85653	2.58884		
	2.64013						2.81269	7.950
22 n-Pentane	0.81663	0.79262	0.82507	0.79677	0.80904	0.76933		
	0.64850						0.77971	7.777
23 1,1-DC-1-flouroethane(F141b)	2.28759	2.13075	2.07401	2.09072	2.06361	2.04675		
	+++++						2.11557	4.207
24 Ethanol	+++++	0.03367	0.04501	0.05311	0.05709	0.05404		
	0.05117						0.04901	17.391
25 Ether (Diethyl ether)	0.42638	0.41565	0.44844	0.45941	0.48953	0.45538		
	0.40269						0.44250	6.695
26 Acrolein	0.05646	0.10863	0.10672	0.12590	0.10061	0.08633		
	0.12301						0.10109	23.528
27 Propionaldehyde (Propanal)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

STL Los Angeles

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Quant Method : ISTD
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Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
28 1,1-Dichloroethene	1.38117 / 1.17748	1.35325	1.24484	1.24027	1.29565	1.17909	1.26739	6.299
30 1,1,2-CL 1,2,2-F ethane(F113)	4.08433 / 2.98595	3.72793	3.41444	3.37983	3.41238	3.08197	3.44098	10.857
29 2,2-Dimethylbutane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Acetone	+++++ / 0.20159	0.10559	0.15141	0.19275	0.19771	0.18315	0.17203	21.634
32 Iodomethane	+++++ / 2.06430	+++++	1.36660	1.34673	2.55135	2.74209	2.01421	32.230 <-
33 Carbon Disulfide	1.25785 / 1.66484	1.10363	1.12758	1.31909	1.53948	1.48883	1.35733	15.731
34 2-Propanol	+++++ / 0.70184	0.27154	0.42102	0.55291	0.61268	0.59410	0.52568	29.417
35 Acetonitrile	+++++ / 0.17533	+++++	0.14078	0.16164	0.17752	0.17720	0.16650	9.492
36 Allyl Chloride	0.63028 / 0.71029	0.62308	0.52769	0.56215	0.65170	0.61859	0.61768	9.601
37 Methylene Chloride	0.85581 / 0.68481	0.71712	0.68673	0.68905	0.70492	0.64707	0.71221	9.397

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
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Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
38 Cyclopentane	0.74796	0.73843	0.76528	0.73826	0.73029	0.70662		
	0.60151						0.71833	7.585
39 tert-Butyl alcohol (TBA)	0.70199	1.24602	1.31874	1.33010	1.41651	1.37074		
	0.98156						1.19509	21.732
40 Acrylonitrile	+++++	+++++	0.08349	0.18901	0.21009	0.23000		
	0.27877						0.19827	36.446 <-
41 trans-1,2-Dichloroethene	1.15783	1.09648	1.10566	1.13319	1.21086	1.11294		
	1.15787						1.13926	3.494
42 Methyl-tert-butyl ether[MTBE]	2.23226	2.07656	1.91703	1.98590	2.07968	1.94011		
	1.99329						2.03212	5.302
43 n-Hexane	0.91890	0.78501	0.74637	0.77163	0.81392	0.75128		
	0.78854						0.79652	7.366
44 1,1-Dichloroethane	1.63146	1.49870	1.36190	1.45139	1.47221	1.36057		
	1.43361						1.45855	6.340
45 Vinyl Acetate	+++++	+++++	0.85969	1.11102	1.25617	1.26223		
	1.43977						1.18578	18.246
46 Diisopropyl ether (DIPE)	2.68065	2.72727	2.73032	2.77115	2.76606	2.67382		
	2.26549						2.65925	6.680
47 1-Propanol	0.23086	0.25692	0.31538	0.39846	0.43251	0.45866		
	0.42789						0.36010	25.445

STL Los Angeles

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Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
48 2,4-Dimethylpentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Methylcyclopentane	0.17710 / 0.15791	0.18879	0.18351	0.19291	0.20216	0.17918	0.18308	7.654
50 Ethyl tert-butyl ether (ETBE)	3.20335 / 2.40553	3.14056	3.09445	3.01558	3.01805	2.95429	2.97597	8.912
51 Nitromethane	+++++ / 0.16405	+++++	0.08183	0.11410	0.10202	0.10038	0.11248	27.608
52 2,2-Dichloropropane	1.42083 / 1.19546	1.37695	1.36474	1.33090	1.53119	1.47504	1.38502	7.804
53 cis-1,2-Dichloroethene	1.00609 / 0.91344	0.92470	0.89552	0.93714	0.94811	0.86370	0.92696	4.823
54 2-Butanone	+++++ / 0.30434	+++++	0.19352	0.25090	0.28965	0.28350	0.26438	16.708
55 Propionitrile (Ethyl cyanide)	+++++ / 0.24099	+++++	0.14636	0.20368	0.23325	0.24907	0.21467	19.499
56 Ethyl Acetate	+++++ / 1.37117	0.50458	0.47782	0.69481	0.88204	0.89588	0.80438	41.013 <-
57 Methacrylonitrile	+++++ / 0.26844	+++++	0.22269	0.24590	0.27960	0.27926	0.25918	9.478

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
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Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	500.000 Level 7							
59 Tetrahydrofuran	+++++	0.53653	0.48879	0.52206	0.56585	0.53280		
	0.58690						0.53882	6.358
60 Chloroform	2.32742	2.12218	1.93673	1.99316	2.03064	1.86960		
	1.92692						2.02952	7.616
61 1,1,1-Trichloroethane	2.37962	2.15609	2.06240	2.15770	2.21469	2.06351		
	2.11606						2.16430	5.057
62 Cyclohexane	1.22590	1.09245	1.03834	1.05286	1.09978	0.99678		
	1.01222						1.07405	7.169
64 Carbon Tetrachloride	1.52727	1.29348	1.36811	1.46210	1.84872	1.73579		
	1.70859						1.56344	13.180
63 1,1-Dichloro-1-propene	1.39561	1.34025	1.38653	1.37338	1.39692	1.35751		
	1.14234						1.34179	6.733
65 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
67 Isobutyl alcohol	+++++	0.01166	0.01455	0.01843	0.02153	0.02219		
	0.02327						0.01861	24.968
68 Benzene	0.67189	0.60415	0.57868	0.57051	0.57535	0.54023		
	0.47686						0.57395	10.333
69 1,2-Dichloroethane	0.36705	0.34064	0.31931	0.32588	0.32869	0.30970		
	0.27803						0.32419	8.444

STL Los Angeles

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Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
70 2,2,4-Trimethylpentane	1.48871	1.34939	1.27586	1.27121	1.30978	1.22663		
	1.05516						1.28239	10.203
71 tert-Amyl methyl ether (TAME)	0.82972	0.77638	0.80707	0.81385	0.83654	0.85002		
	0.78857						0.81459	3.233
72 n-Heptane	0.47684	0.41755	0.41022	0.38876	0.41149	0.39140		
	0.35033						0.40666	9.421
74 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
75 Trichloroethene	0.55426	0.50306	0.49801	0.49029	0.49365	0.46051		
	0.40243						0.48603	9.505
76 Methylcyclohexane	0.33890	0.33875	0.32963	0.33888	0.33485	0.34164		
	0.32044						0.33473	2.212
77 1-Butanol	+++++	0.01555	0.01606	0.01642	0.01577	0.01635		
	0.01527						0.01590	2.866
78 1,2-Dichloropropane	0.13848	0.12850	0.13370	0.13547	0.13616	0.12755		
	0.11654						0.13091	5.724
79 Dibromomethane	0.48290	0.44657	0.47944	0.50259	0.55079	0.52890		
	0.48167						0.49612	6.993
80 Methyl methacrylate	+++++	0.11647	0.13862	0.17426	0.18938	0.20348		
	0.19779						0.17000	20.608

STL Los Angeles

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Curve Type : Average

Compound	2.000 Level 1	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	500.000 Level 7							
81 1,4-Dioxane	+++++	0.10279	0.12210	0.14041	0.16195	0.15454		
	0.14531						0.13785	15.889
82 Bromodichloromethane	0.43259	0.41977	0.42308	0.45658	0.49837	0.48226		
	0.43522						0.44970	6.783
83 1-Bromo-2-chloroethane	0.07408	0.07751	0.08455	0.09312	0.10070	0.09781		
	0.09169						0.08850	11.406
84 2-Chloroethylvinyl ether	+++++	+++++	0.01068	0.01247	0.02492	0.02124		
	0.02988						0.01984	41.166 <-
85 cis-1,3-Dichloropropene	0.34334	0.33399	0.36756	0.39173	0.43030	0.41999		
	0.39768						0.38351	9.586
86 4-Methyl-2-Pentanone	+++++	+++++	0.11874	0.14530	0.17949	0.18420		
	0.19210						0.16397	18.887
87 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Toluene	0.92173	0.85624	0.78715	0.80386	0.81657	0.76547		
	0.67298						0.80343	9.598
90 n-Octane	0.52321	0.48594	0.56648	0.60909	0.62866	0.65157		
	0.63460						0.58565	10.652
91 trans-1,3-Dichloropropene	0.25276	0.29651	0.33322	0.36535	0.39687	0.39147		
	0.38736						0.34622	15.840

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
92 Ethyl methacrylate	+++++ / 0.66506	0.23584	0.30061	0.42563	0.53787	0.61317	0.46303	37.201 <-
93 1,1,2-Trichloroethane	0.57461 / 0.41755	0.54257	0.53970	0.51481	0.51349	0.47329	0.51086	10.122
95 Tetrachloroethene	1.19773 / 0.71256	1.12133	1.04075	0.99394	0.96239	0.87954	0.98689	16.173
94 1,3-Dichloropropane	0.53857 / 0.54960	0.54658	0.55714	0.57126	0.57656	0.58147	0.56017	2.931
96 2-Hexanone	+++++ / 0.26660	+++++	0.12448	0.15654	0.21255	0.22746	0.19753	28.761
97 Dibromochloromethane	0.86091 / 0.88571	0.88393	0.95920	1.01494	1.10498	1.05014	0.96569	9.738
98 1,2-Dibromoethane	0.94050 / 0.78397	0.91598	0.97140	0.96949	0.98012	0.92800	0.92707	7.284
M 99 Xylenes (total)	0.45624 / 0.40036	0.38511	0.39007	0.41174	0.41939	0.42940	0.41319	5.965
100 1-Chlorohexane	0.42132 / 0.51876	0.44398	0.46377	0.49448	0.51272	0.52668	0.48310	8.408
102 Chlorobenzene	1.03461 / 0.76452	0.97034	0.93214	0.90997	0.92566	0.87392	0.91588	9.149

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	500.000 Level 7							
103 1,1,1,2-Tetrachloroethane	0.52184	0.51629	0.56079	0.58439	0.64751	0.64108		
	0.58388						0.57940	8.949
104 Ethylbenzene	1.31434	1.19162	1.20997	1.24874	1.29704	1.26017		
	1.11840						1.23433	5.441
105 m,p-Xylenes	0.46909	0.37775	0.38630	0.41729	0.42423	0.43388		
	0.39941						0.41542	7.501
106 n-Nonane	0.28428	0.27858	0.34388	0.41585	0.44829	0.49693		
	0.54512						0.40185	25.762
107 o-Xylene	0.43054	0.39983	0.39760	0.40065	0.40970	0.42043		
	0.40226						0.40872	3.036
108 Styrene	0.46390	0.44293	0.43145	0.46421	0.55495	0.59212		
	0.61483						0.50920	14.922
109 Cellosolve Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 Bromoform	0.74811	0.81390	0.90756	1.00941	1.18997	1.15430		
	0.95624						0.96850	16.944
111 .alpha.-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
112 Isopropylbenzene (Cumene)	0.33230	0.33190	0.35989	0.39182	0.42824	0.42599		
	0.40458						0.38210	10.763

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
113 Cyclohexanone	+++++ / 0.28823	+++++	0.13866	0.12948	0.21366	0.23870	0.20175	33.424 <-
116 1,1,2,2-Tetrachloroethane	1.15875 / 0.92885	1.08146	1.13082	1.13566	1.20727	1.11118	1.10771	7.950
115 Bromobenzene	0.53205 / 0.63368	0.51157	0.53611	0.57894	0.64346	0.64148	0.58247	9.801
117 1,2,3-Trichloropropane	0.28647 / 0.29966	0.27876	0.29299	0.30958	0.33770	0.32226	0.30392	6.829
118 trans-1,4-Dichloro-2-butene	+++++ / +++++	+++++	0.01287	0.02312	0.05704	0.06460	0.03941	64.108 <-
119 n-Propylbenzene	0.90794 / 1.32930	0.90495	1.00302	1.17691	1.24278	1.30780	1.12467	16.320
120 2-Chlorotoluene	0.27429 / 0.34188	0.26133	0.28592	0.30935	0.32919	0.33463	0.30523	10.409
122 3-Ethyltoluene	0.84547 / 1.09317	0.79408	0.85318	0.95515	1.06256	1.08769	0.95590	13.268
123 4-Ethyl Toluene	0.70983 / 0.97858	0.68622	0.67940	0.73173	0.81185	0.88756	0.78360	14.559
124 1,3,5-Trimethylbenzene	1.32254 / +++++	0.97827	0.86946	0.77175	0.72203	0.77123	0.90588	24.689

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
121 4-Chlorotoluene	0.22760	0.22472	0.25636	0.26726	0.29887	0.31830			
	0.34968						0.27754	16.872	
125 n-Decane	0.43299	0.34141	0.32974	0.37139	0.39535	0.46494			
	0.47398						0.40140	14.374	
126 .beta.-Pinene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
127 2-Ethyltoluene	0.85198	0.77424	0.84912	0.93618	1.03245	1.06906			
	1.10494						0.94543	13.358	
128 .alpha.-Methylstyrene	0.15944	0.21422	0.25594	0.32847	0.40067	0.42729			
	0.50232						0.32691	37.893	<-
129 tert-Butylbenzene	0.72014	0.56920	0.61953	0.68881	0.73774	0.77819			
	0.76579						0.69706	11.100	
130 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
131 1,2,4-Trimethylbenzene	0.39219	0.33577	0.27857	0.26206	0.25047	0.27005			
	+++++						0.29818	18.373	
132 sec-Butylbenzene	1.17547	1.02798	1.12946	1.31591	1.49008	1.57939			
	1.59195						1.33003	17.144	
133 D-Limonene	0.34243	0.28420	0.28097	0.31097	0.34239	0.38384			
	0.42755						0.33891	15.721	

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1 / 500.000 Level 7	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
134 1,3-Dichlorobenzene	0.64183	0.58407	0.56575	0.60561	0.61546	0.71590			
	0.75566						0.64061	10.958	
135 p-Isopropyltoluene (p-Cymene)	1.04363	0.77804	0.87631	0.97576	1.12873	1.18528			
	1.23545						1.03189	16.133	
136 1,4-Dichlorobenzene	0.50658	0.54240	0.57309	0.60561	0.59022	0.71592			
	0.75566						0.61278	14.810	
137 1,2,3-Trimethylbenzene	0.69704	0.55247	0.53501	0.58523	0.63319	0.67484			
	0.70951						0.62676	11.245	
138 Benzyl Chloride	+++++	+++++	0.29169	0.36008	0.56739	0.68902			
	0.87312						0.55626	42.791	<-
139 n-Butylbenzene	0.38252	0.32620	0.33202	0.37631	0.43822	0.49753			
	0.57860						0.41877	22.089	
140 1,2-Dichlorobenzene	0.71463	0.59582	0.55460	0.56932	0.61045	0.66761			
	0.70227						0.63067	10.176	
141 n-Undecane	+++++	+++++	0.40669	0.35359	0.34276	0.41556			
	0.45286						0.39429	11.586	
142 1,2-Dibromo-3-chloropropane	+++++	+++++	0.44474	0.55381	0.72091	0.77524			
	0.77592						0.65412	22.658	
143 n-Dodecane	+++++	+++++	0.61177	0.48771	0.52611	0.45399			
	0.40237						0.49639	15.897	

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2005 09:00
End Cal Date : 04-FEB-2005 06:32
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.M
Cal Date : 04-Feb-2005 09:04 kammererd
Curve Type : Average

Compound	2.000 Level 1	4.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	500.000 Level 7							
144 1,2,4-Trichlorobenzene	+++++	0.37847	0.35095	0.30255	0.37199	0.32122		
	0.31923						0.34074	9.100
145 Hexachlorobutadiene	0.76254	0.70287	0.56560	0.52083	0.59803	0.67746		
	0.67831						0.64366	13.190
146 Naphthalene	+++++	0.45022	0.41086	0.40163	0.56994	0.59370		
	0.64195						0.51137	20.165
147 1,2,3-Trichlorobenzene	0.57544	0.55086	0.43150	0.38468	0.45841	0.46809		
	0.49208						0.48015	13.794
$ 66 1,2-Dichloroethane-d4	0.29096	0.29430	0.28028	0.29339	0.30119	0.32171		
	0.28545						0.29533	4.540
$ 88 Toluene-d8	0.50349	0.50636	0.50491	0.50895	0.50855	0.51759		
	0.52093						0.51011	1.294
$ 114 4-Bromofluorobenzene	0.78792	0.77129	0.76790	0.80147	0.84855	0.90717		
	1.01432						0.84266	10.729

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B/IC02035.D
Report Date: 02/08/2005

INITIAL CALIBRATION REPORT

Method File : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.m
Instrument ID: gcmsb.i Injection Date: 03-FEB-2005 09:00
Lab File ID : IC02035.D Lab Sample ID : 50 PPBV UBER STD
Analysis Type: AIR

COMPOUND	%RSD
Propane	12.0
Dimethyl ether (DME)	10.9
2-Methylpropane (Isobutane)	8.8
n-Butane	8.9
Methanol	15.6
2-Methylbutane (Isopentane)	8.2
Dichlorofluoromethane (F21)	8.2
n-Pentane	7.8
Ethanol	17.4
Ether (Diethyl ether)	6.7
Acrolein	23.5
Iodomethane	32.2
Acetonitrile	9.5
Cyclopentane	7.6
tert-Butyl alcohol (TBA)	21.7
Diisopropyl ether (DIPE)	6.7
1-Propanol	25.4
Methylcyclopentane	7.7
Ethyl tert-butyl ether (ETBE)	8.9
Nitromethane	27.6
2,2-Dichloropropane	7.8
Propionitrile (Ethyl cyanide)	19.5
Methacrylonitrile	9.5
1,1-Dichloro-1-propene	6.7
Isobutyl alcohol	25.0
tert-Amyl methyl ether (TAME)	3.2
1-Butanol	2.9
Methylcyclohexane	2.2
Dibromomethane	7.0
Methyl methacrylate	20.6
1-Bromo-2-chloroethane	11.4
2-Chloroethylvinyl ether	41.2
n-Octane	10.7
Ethyl methacrylate	37.2
1,3-Dichloropropane	2.9
1-Chlorohexane	8.4
1,1,1,2-Tetrachloroethane	8.9
n-Nonane	25.8
Isopropylbenzene (Cumene)	10.8

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B/IC02035.D
Report Date: 02/08/2005

INITIAL CALIBRATION REPORT

Method File : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.m
Instrument ID: gcmsb.i Injection Date: 03-FEB-2005 09:00
Lab File ID : IC02035.D Lab Sample ID : 50 PPBV UBER STD
Analysis Type: AIR

COMPOUND	%RSD
Cyclohexanone	33.4
Bromobenzene	9.8
1,2,3-Trichloropropane	6.8
trans-1,4-Dichloro-2-butene	64.1
n-Propylbenzene	16.3
2-Chlorotoluene	10.4
3-Ethyltoluene	13.3
4-Chlorotoluene	16.9
n-Decane	14.4
2-Ethyltoluene	13.4
.alpha.-Methylstyrene	37.9
tert-Butylbenzene	11.1
sec-Butylbenzene	17.1
D-Limonene	15.7
p-Isopropyltoluene (p-Cymene)	16.1
1,2,3-Trimethylbenzene	11.2
n-Butylbenzene	22.1
n-Undecane	11.6
1,2-Dibromo-3-chloropropane	22.7
n-Dodecane	15.9
Naphthalene	20.2
1,2,3-Trichlorobenzene	13.8

The average of all %RSD's in the initial calibration is 15.6 AD 2/8/05

STL Los Angeles
Air Toxics Lab GC/MS Run Log

Instrument ID: GCMS-B	Data Directory: D:\GCMSB\ 050203. B	BFB Standard: PSL99112883	Initial Calibration ID: 02-03-05
	Method File: 7014A	Daily Standard: MSL050 1191	SOP: C01-MS-003
Logbook ID: R-AMS-041	Tune File: BF050202. m	LCS Standard: MSL 050 1153	MDL Date: 6/-26-05
		I.S. Standard: PSL99112883	Blank Lot No. 905030/.00

#	Date	Time	Data File	Work Order No.	Container No.	Client	Client Sample ID	Sample Volume (mL)	Pressure Dilution	Samp. Dilution	Dilution Factor	Init	Status	Line No.	Comments
1	2/3/05	0834	BF02031	—	—	—	BFB	25	—	—	—	AA	OK	A	
2		0900	IC02030				50.0 ppbv UBER	125				AA	OK	14	MSL050 1161
3		0944	IC02031				2.0 ppbv	40					OK	14	MSL050 1164
4		1013	IC02032				4.0 ppbv	80					OK	14	
5		1043	IC02033				10.0 ppbv	200					OK	14	
6		1119	IC02034				25. ppbv	500					OK	14	
7		1155	IC02035				100 ppbv	250					OK	15	MSL050 1161
8		1303	IC02036				500 ppbv	1250					OK	15	
9		1559	MB02031				BLANK	500				AA	OK	5	
10		1435	IC02038				2. ppbv 7014A	20					OK	6	MSL050 1113
11		1511	IC02039				4.	40					OK	6	
12		1547	IC02039A				10	100					OK	6	
13		1623	IC02039B				25	250					OK	6	
14		1653	IC02039C				50 ppbv	125					OK	7	MSL050 1115
15		1721	IC02039D				100 ppbv	250					OK	7	
16		1750	IC02039E				500 ppbv	1250				AA	OK	7	
17		1831	MB02032				BLANK	500				AA	OK	8	
18		1906	LC02031	—	—	—	ICV / LCS	250	—	—	—	AA	OK	~~04~~ 14 AA	12.4 · TCB = 39.6% low Hexachlorobutadiene = 37% REC.

Reviewed: _____

STL Los Angeles
Air Toxics Lab GC/MS Run Log

Instrument ID: GCMS-B	Data Directory: D:\GCMSB\	BFB Standard:	Initial Calibration ID:
	Method File:	Daily Standard:	SOP:
Logbook ID: R-AMS-041	Tune File:	LCS Standard:	MDL Date:
		I.S. Standard:	Blank Lot No.

#	Date	Time	Data File	Work Order No.	Container No.	Client	Client Sample ID	Sample Volume (mL)	Pressure Dilution	Samp. Dilution	Dilution Factor	Init	Status	Line No.	Comments
1	2/3/05	1935	LC02032	—	—	—	LCSD	250	—	—	—	AA	OK	9	
2		2022	MB02033	—	—	—	M.BLANK	500	—	—	—	AA	OK	16	
3		2132	B7832	G3JL61AC	0-1	MWH	BRC-SV-11-10	50	24.3/14.0	100/100	174		OK	1	ESB010166-3
4		2208	B7833	G3JMJ1AC			-SV-10-10	20	24.5/13.4	100/100	457		OK	2	-5
5		2244	B7834	G3JMP1AC			-DSV-10-10	20	24.5/12.4	100/100	475		OK	3	-6
6		2320	B7835	G3JMX1AC			-SV-10-20	50	24.5/14.3	100/10	1710		~~OK~~ NO	4	-7
7		2356	B7836	G3JGP1AC			-SV-15-11	20	24.1/13.2	100/100	456		OK	5	ESB010135-3
8	2/4/05	0032	B7837	G3JGT1AC			DSV-15-11	20	24.3/12.6	100/100	482		u/R	6	-4
9		0108	B7838	G3JGX1AC			-SV-14-10	20	24.5/13.0	100/100	471		OK	7	-5
10		0144	B7839	G3QX41AA	esi	APT	Run 1	15	RDLAR	—	33.3	AA	o/R	8	ESB030319-1
11		0220	B7840	G3QC71AA			2	15		—			o/R	9	-2
12		0256	B7841	G3QC91AA			3	15		—			o/R	10	-3
13		0332	IC02039F	—	—	—	Freon 141b STD 20 ppbv	10	—	—	—		OK	16	MSL0401990
14		0408	IC02040F	—	—	—	4 ppbv	20	—	—	—		OK	16	
15		0444	IC02041F	—	—	—	10 ppbv	50	—	—	—		OK	16	
16		0520	IC02042F	—	—	—	25 ppbv	125	—	—	—		OK	16	
17		0556	IC02043F	—	—	—	50 ppbv	250	—	—	—		OK	16	
18		0632	IC02044F	—	—	—	100 ppbv	500	—	—	—		OK	16	
19	2/4	0633	B7842	G3JGT1AC	0-1	MWH	BRC-DSV-15-11	100	24.3/12.6	100/100		AA	OK	6	ESB010135-4

Reviewed: _____

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02031.D Page 1
Report Date: 03-Feb-2005 14:05

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02031.D
Lab Smp Id: 2.0 PPBV UBER STD Client Smp ID: MSL0501164
Inj Date : 03-FEB-2005 09:44
Operator : AA Inst ID: gcmsb.i
Smp Info : 2.0 PPBV UBER STD,MSL0501164
Misc Info : 1,1,40,40,1,1,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 09:00 Cal File: IC02035.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	40.000	CalVol
SmpVol	40.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Propane	43	2.084	2.092	(0.251)	740	2.00000	1.905(a)
6 2-Methylpropane (Isobutane)	43	2.355	2.389	(0.283)	7348	2.00000	2.215
7 Dimethyl ether (DME)	45	2.409	2.353	(0.290)	2037	2.00000	1.695(a)
10 n-Butane	43	2.608	2.642	(0.313)	6256	2.00000	2.213
14 Methanol	31	3.140	3.219	(0.377)	6317	10.0000	12.98
17 2-Methylbutane (Isopentane)	57	3.456	3.490	(0.415)	5837	2.00000	2.167
20 Dichlorofluoromethane (F21)	67	3.690	3.752	(0.444)	14455	2.00000	2.152
22 n-Pentane	43	3.934	3.959	(0.473)	11463	2.00000	2.100
24 Ethanol	46	4.340	4.410	(0.522)	1154	10.0000	3.157(a)
25 Ether (Diethyl ether)	59	4.367	4.383	(0.525)	5985	2.00000	1.908(a)
26 Acrolein	56	4.647	4.600	(0.559)	1585	4.00000	2.262(a)
32 Iodomethane	142	4.944	4.997	(0.594)	9328	2.00000	0.6598(a)
35 Acetonitrile	41	5.468	5.394	(0.657)	632	4.00000	0.5408(a)
38 Cyclopentane	42	5.693	5.755	(0.684)	10499	2.00000	2.092

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02031.D Page 2
Report Date: 03-Feb-2005 14:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
39	tert-Butyl alcohol (TBA)	59	5.946	6.089	(0.715)	49269	10.0000	5.916(a)
46	Diisopropyl ether (DIPE)	45	7.056	7.099	(0.848)	37628	2.00000	2.025
47	1-Propanol	31	7.426	7.334	(0.893)	16203	10.0000	6.119(a)
49	Methylcyclopentane	84	7.669	7.749	(0.922)	2486	2.00000	1.945(a)
50	Ethyl tert-butyl ether (ETBE)	59	7.687	7.749	(0.924)	44965	2.00000	2.173
52	2,2-Dichloropropane	77	7.895	7.920	(0.949)	19944	2.00000	2.050
* 58	Bromochloromethane	49	8.319	8.353	(1.000)	350922	50.0000	
57	Methacrylonitrile	67	8.454	8.353	(1.016)	473	2.00000	0.2600(a)
63	1,1-Dichloro-1-propene	75	9.095	9.111	(1.093)	19590	2.00000	2.080
67	Isobutyl alcohol	74	9.456	9.517	(0.932)	826	10.0000	1.757(a)
71	tert-Amyl methyl ether (TAME)	73	9.690	9.725	(0.955)	39008	2.00000	2.021
* 73	1,4-Difluorobenzene	114	10.151	10.185	(1.000)	1175343	50.0000	
76	Methylcyclohexane	83	10.908	10.952	(1.075)	15933	2.00000	2.029(a)
77	1-Butanol	56	10.908	10.952	(1.075)	3338	10.0000	8.889(a)
79	Dibromomethane	174	11.233	11.204	(1.107)	22703	2.00000	1.915(a)
80	Methyl methacrylate	69	11.396	11.268	(1.123)	3590	2.00000	0.8451(a)
83	1-Bromo-2-chloroethane	144	12.090	12.035	(1.191)	3483	2.00000	1.640(a)
84	2-Chloroethylvinyl ether	106	12.108	12.071	(1.193)	672	10.0000	1.441(a)
90	n-Octane	43	13.137	13.153	(0.852)	18390	2.00000	1.737(a)
92	Ethyl methacrylate	69	13.588	13.496	(0.882)	4154	2.00000	0.4649(a)
94	1,3-Dichloropropane	76	13.958	13.929	(0.906)	18930	2.00000	1.915(a)
* 101	Chlorobenzene-d5	117	15.411	15.427	(1.000)	878716	50.0000	
100	1-Chlorohexane	91	15.456	15.445	(1.003)	14809	2.00000	1.721(a)
103	1,1,1,2-Tetrachloroethane	131	15.609	15.635	(1.013)	18342	2.00000	1.769(a)
106	n-Nonane	43	15.979	15.986	(1.037)	9992	2.00000	1.346(a)
112	Isopropylbenzene (Cumene)	120	17.387	17.385	(1.128)	11680	2.00000	1.702(a)
113	Cyclohexanone	55	17.666	17.547	(1.146)	3685	2.00000	1.039(a)
115	Bromobenzene	156	17.982	17.962	(1.167)	18701	2.00000	1.790(a)
117	1,2,3-Trichloropropane	110	18.053	18.035	(1.172)	10069	2.00000	1.860(a)
119	n-Propylbenzene	91	18.190	18.197	(1.180)	31913	2.00000	1.564(a)
122	3-Ethyltoluene	105	18.370	18.368	(1.192)	29717	2.00000	1.720(a)
120	2-Chlorotoluene	126	18.379	18.350	(1.193)	9641	2.00000	1.755(a)
125	n-Decane	57	18.569	18.576	(1.205)	15219	2.00000	2.105
121	4-Chlorotoluene	126	18.614	18.567	(1.208)	8000	2.00000	1.590(a)
127	2-Ethyltoluene	105	18.930	18.928	(1.228)	29946	2.00000	1.750(a)
128	.alpha.-Methylstyrene	118	19.047	18.982	(1.236)	5604	2.00000	0.9224(a)
129	tert-Butylbenzene	91	19.164	19.171	(1.244)	25312	2.00000	2.005
132	sec-Butylbenzene	105	19.597	19.605	(1.272)	41316	2.00000	1.703(a)
133	D-Limonene	68	19.805	19.803	(1.285)	12036	2.00000	1.968(a)
135	p-Isopropyltoluene (p-Cymene)	119	19.904	19.902	(1.292)	36682	2.00000	1.943(a)
137	1,2,3-Trimethylbenzene	105	20.139	20.101	(1.307)	24500	2.00000	2.181
139	n-Butylbenzene	92	20.770	20.705	(1.348)	13445	2.00000	1.762(a)
141	n-Undecane	57	20.951	20.931	(1.359)	21562	2.00000	3.112
142	1,2-Dibromo-3-chloropropane	157	22.106	22.059	(1.434)	14032	2.00000	1.221(a)
143	n-Dodecane	57	22.611	22.591	(1.467)	20347	2.00000	2.332
146	Naphthalene	128	23.775	23.520	(1.543)	8688	1.04000	0.9442(a)
147	1,2,3-Trichlorobenzene	180	23.928	23.854	(1.553)	20226	2.00000	2.457

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050203.B\IC02031.D

Date : 03-FEB-2005 09:44

Client ID: HSL0501164

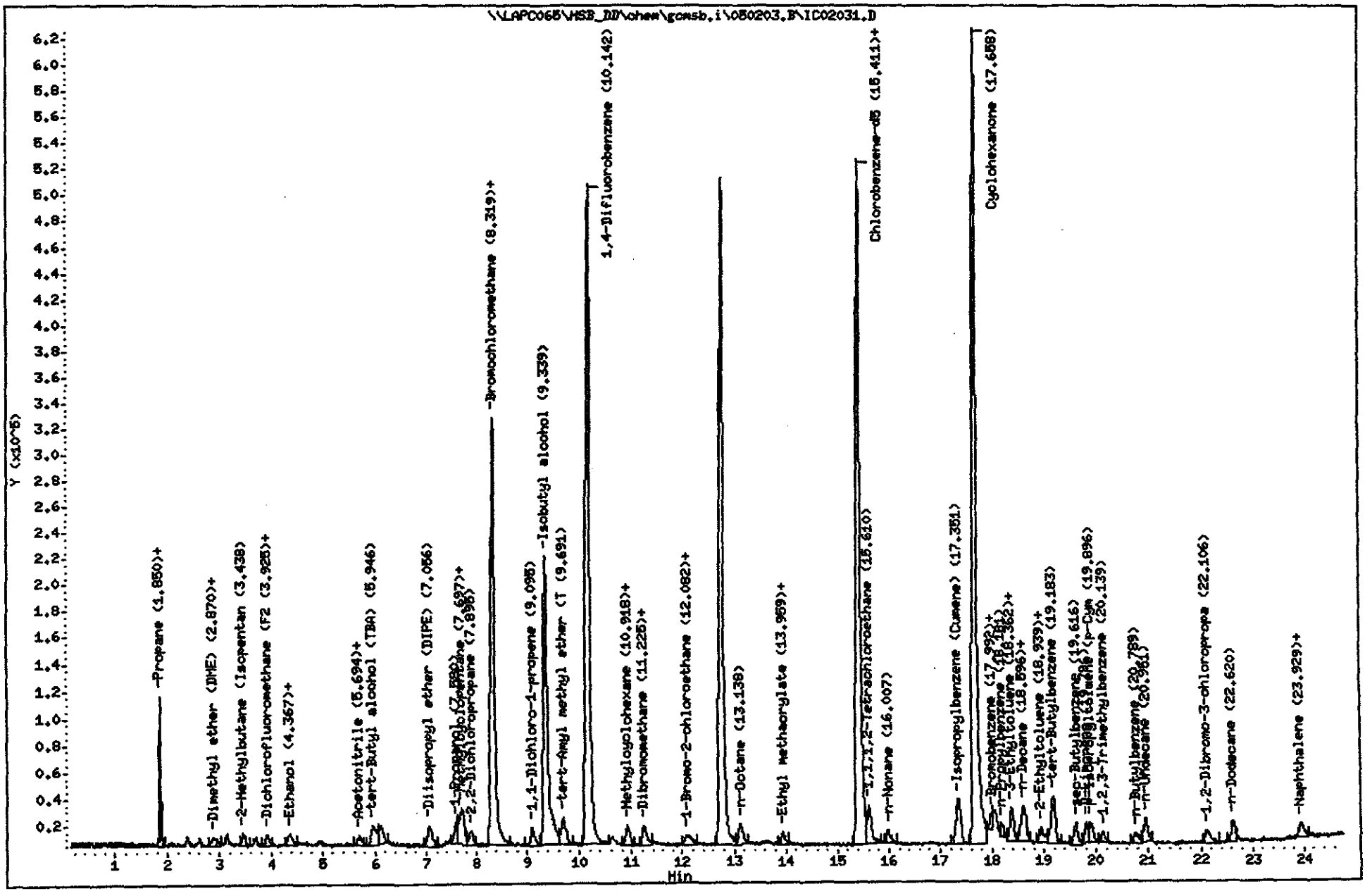
Instrument: gcmsb.i

Sample Info: 2.0 PPBV UBER STD,HSL0501164

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02032.D Page 1
Report Date: 03-Feb-2005 14:05

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02032.D
Lab Smp Id: 4.0 PPBV UBER STD Client Smp ID: MSL0501164
Inj Date : 03-FEB-2005 10:13
Operator : AA Inst ID: gcmsb.i
Smp Info : 4.0 PPBV UBER STD,MSL0501164
Misc Info : 1,1,80,80,1,2,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 09:00 Cal File: IC02035.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	80.000	CalVol
SmpVol	80.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Propane	43	2.086	2.092	(0.247)	1171	4.00000	3.142
6 2-Methylpropane (Isobutane)	43	2.374	2.389	(0.282)	13977	4.00000	4.203
7 Dimethyl ether (DME)	45	2.401	2.353	(0.285)	4114	4.00000	3.515
10 n-Butane	43	2.609	2.642	(0.310)	11482	4.00000	4.074
14 Methanol	31	3.168	3.219	(0.376)	9216	20.0000	19.19
17 2-Methylbutane (Isopentane)	57	3.475	3.490	(0.412)	10331	4.00000	3.880
20 Dichlorofluoromethane (F21)	67	3.719	3.752	(0.441)	26795	4.00000	4.012
22 n-Pentane	43	3.971	3.959	(0.471)	22113	4.00000	4.066
24 Ethanol	46	4.386	4.410	(0.520)	4697	20.0000	13.74
25 Ether (Diethyl ether)	59	4.441	4.383	(0.527)	11596	4.00000	3.757
26 Acrolein	56	4.729	4.600	(0.561)	6061	8.00000	8.596
32 Iodomethane	142	5.036	4.997	(0.598)	21181	4.00000	1.508(a)
35 Acetonitrile	41	5.532	5.394	(0.656)	5378	8.00000	4.631
38 Cyclopentane	42	5.794	5.755	(0.687)	20601	4.00000	4.112

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02032.D Page 2
Report Date: 03-Feb-2005 14:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
39 tert-Butyl alcohol (TBA)	59	6.092	6.089	(0.723)	173811	20.0000	20.85
46 Diisopropyl ether (DIPE)	45	7.184	7.099	(0.852)	76087	4.00000	4.102
47 1-Propanol	31	7.472	7.334	(0.887)	35839	20.0000	14.27(H)
49 Methylcyclopentane	84	7.797	7.749	(0.925)	5267	4.00000	4.125
50 Ethyl tert-butyl ether (ETBE)	59	7.824	7.749	(0.928)	87617	4.00000	4.221
51 Nitromethane	30	8.005	7.839	(0.950)	542	4.00000	0.6909(a)
52 2,2-Dichloropropane	77	8.005	7.920	(0.950)	38415	4.00000	3.977
55 Propionitrile (Ethyl cyanide)	54	8.284	8.083	(0.983)	1406	4.00000	0.9391(a)
* 58 Bromochloromethane	49	8.429	8.353	(1.000)	348732	50.0000	
57 Methacrylonitrile	67	8.537	8.353	(1.013)	4127	4.00000	2.283
63 1,1-Dichloro-1-propene	75	9.205	9.111	(1.092)	37391	4.00000	3.995
67 Isobutyl alcohol	74	9.584	9.517	(0.936)	5564	20.0000	12.54
71 tert-Amyl methyl ether (TAME)	73	9.791	9.725	(0.956)	74089	4.00000	3.812
* 73 1,4-Difluorobenzene	114	10.242	10.185	(1.000)	1192855	50.0000	
76 Methylcyclohexane	83	10.991	10.952	(1.073)	32326	4.00000	4.048(a)
77 1-Butanol	56	11.009	10.952	(1.075)	7418	20.0000	19.55
79 Dibromomethane	174	11.307	11.204	(1.104)	42615	4.00000	3.600
80 Methyl methacrylate	69	11.406	11.268	(1.114)	11115	4.00000	2.740
83 1-Bromo-2-chloroethane	144	12.128	12.035	(1.184)	7397	4.00000	3.504
90 n-Octane	43	13.202	13.153	(0.855)	34568	4.00000	3.319
92 Ethyl methacrylate	69	13.608	13.496	(0.881)	16777	4.00000	2.037
94 1,3-Dichloropropane	76	13.996	13.929	(0.906)	38882	4.00000	3.903(a)
* 101 Chlorobenzene-d5	117	15.448	15.427	(1.000)	889207	50.0000	
100 1-Chlorohexane	91	15.484	15.445	(1.002)	31583	4.00000	3.676
103 1,1,1,2-Tetrachloroethane	131	15.665	15.635	(1.014)	36727	4.00000	3.564
106 n-Nonane	43	16.008	15.986	(1.036)	19817	4.00000	2.773
112 Isopropylbenzene (Cumene)	120	17.415	17.385	(1.127)	23610	4.00000	3.474
115 Bromobenzene	156	18.002	17.962	(1.165)	36391	4.00000	3.513(a)
117 1,2,3-Trichloropropane	110	18.074	18.035	(1.170)	19830	4.00000	3.669
119 n-Propylbenzene	91	18.218	18.197	(1.179)	64375	4.00000	3.218
122 3-Ethyltoluene	105	18.399	18.368	(1.191)	56488	4.00000	3.323
120 2-Chlorotoluene	126	18.390	18.350	(1.190)	18590	4.00000	3.425
125 n-Decane	57	18.588	18.576	(1.203)	24287	4.00000	3.402
121 4-Chlorotoluene	126	18.615	18.567	(1.205)	15986	4.00000	3.239
127 2-Ethyltoluene	105	18.958	18.928	(1.227)	55077	4.00000	3.276
128 .alpha.-Methylstyrene	118	19.021	18.982	(1.231)	15239	4.00000	2.621
129 tert-Butylbenzene	91	19.184	19.171	(1.242)	40491	4.00000	3.266
132 sec-Butylbenzene	105	19.617	19.605	(1.270)	73127	4.00000	3.092
133 D-Limonene	68	19.815	19.803	(1.283)	20217	4.00000	3.354
135 p-Isopropyltoluene (p-Cymene)	119	19.924	19.902	(1.290)	55347	4.00000	3.016
137 1,2,3-Trimethylbenzene	105	20.140	20.101	(1.304)	39301	4.00000	3.526
139 n-Butylbenzene	92	20.772	20.705	(1.345)	23205	4.00000	3.116
141 n-Undecane	57	20.943	20.931	(1.356)	38729	4.00000	5.523
142 1,2-Dibromo-3-chloropropane	157	22.089	22.059	(1.430)	25103	4.00000	2.158(a)
143 n-Dodecane	57	22.612	22.591	(1.464)	46546	4.00000	5.273
146 Naphthalene	128	23.695	23.520	(1.534)	16654	2.08000	1.831(a)
147 1,2,3-Trichlorobenzene	180	23.903	23.854	(1.547)	39186	4.00000	4.589

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050203.B\IC02032.D

Date : 03-FEB-2005 10:13

Client ID: HSL0501164

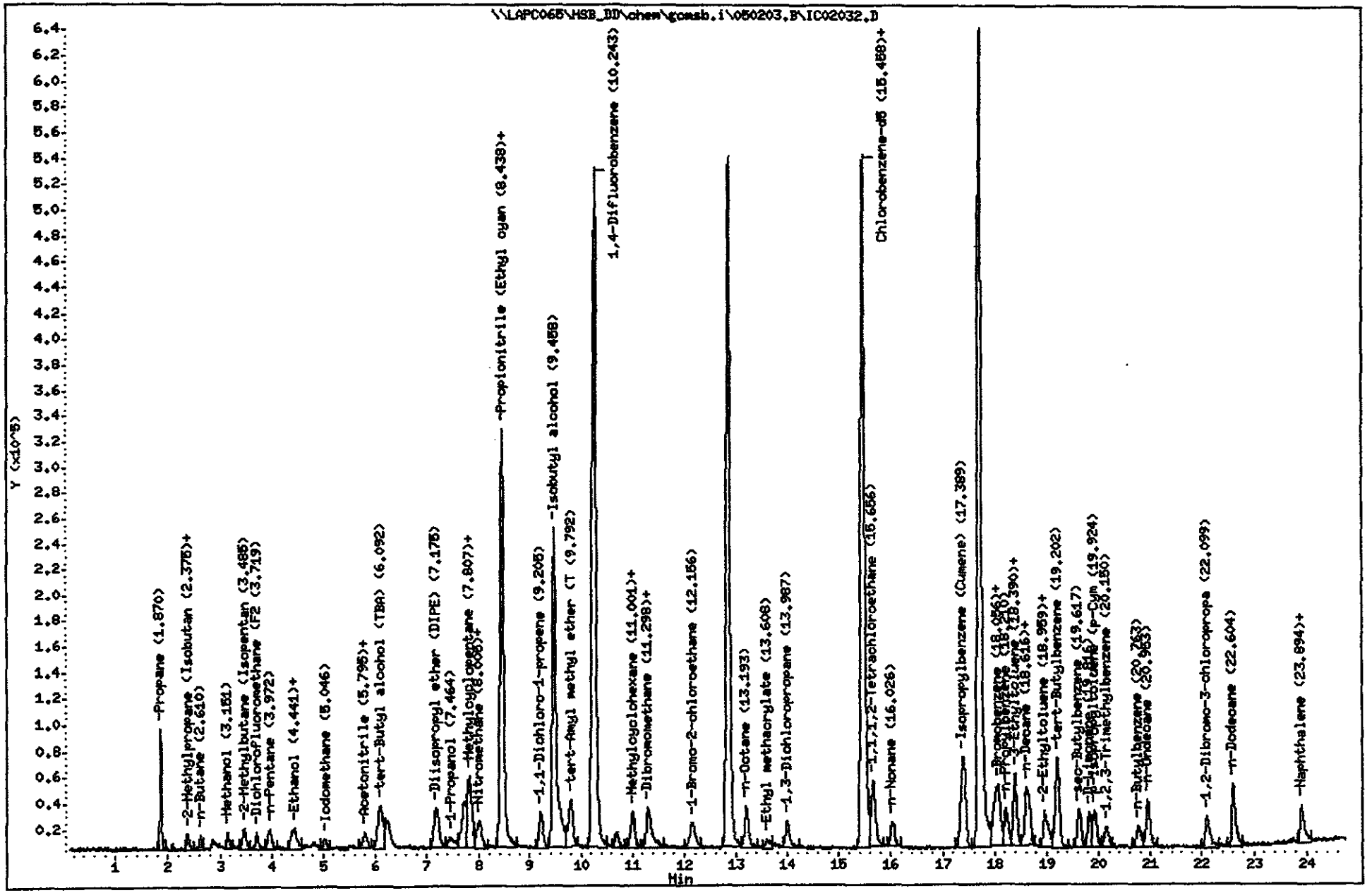
Sample Info: 4.0 PPBV UBER STD,HSL0501164

Column phase: J&W DB-624

Instrument: gcmsb.i

Operator: AA

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02033.D Page 1
Report Date: 03-Feb-2005 14:05

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02033.D
Lab Smp Id: 10 PPBV UBER STD Client Smp ID: MSL0501164
Inj Date : 03-FEB-2005 10:43
Operator : AA Inst ID: gcmsb.i
Smp Info : 10 PPBV UBER STD,MSL0501164
Misc Info : 1,1,200,200,1,3,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 09:00 Cal File: IC02035.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	200.000	CalVol
SmpVol	200.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
2 Propane	43	2.065	2.092	(0.249)	4107	10.0000	10.54
6 2-Methylpropane (Isobutane)	43	2.353	2.389	(0.284)	35827	10.0000	10.31
7 Dimethyl ether (DME)	45	2.371	2.353	(0.286)	12727	10.0000	10.40
10 n-Butane	43	2.588	2.642	(0.312)	30432	10.0000	10.33
14 Methanol	31	3.093	3.219	(0.373)	21961	50.0000	43.73
17 2-Methylbutane (Isopentane)	57	3.418	3.490	(0.412)	27160	10.0000	9.756
20 Dichlorofluoromethane (F21)	67	3.653	3.752	(0.441)	72334	10.0000	10.36
22 n-Pentane	43	3.887	3.959	(0.469)	60162	10.0000	10.58
24 Ethanol	46	4.257	4.410	(0.514)	16410	50.0000	45.91
25 Ether (Diethyl ether)	59	4.311	4.383	(0.520)	32699	10.0000	10.13
26 Acrolein	56	4.564	4.600	(0.551)	15564	20.0000	21.11
32 Iodomethane	142	4.907	4.997	(0.592)	99649	10.0000	6.785
35 Acetonitrile	41	5.367	5.394	(0.647)	20531	20.0000	16.91
38 Cyclopentane	42	5.665	5.755	(0.683)	55802	10.0000	10.65

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02033.D Page 2
Report Date: 03-Feb-2005 14:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
39 tert-Butyl alcohol (TBA)	59	5.935	6.089	(0.716)	480795	50.0000	55.17
46 Diisopropyl ether (DIPE)	45	7.027	7.099	(0.848)	199088	10.0000	10.27
47 1-Propanol	31	7.226	7.334	(0.872)	114985	50.0000	43.79
49 Methylcyclopentane	84	7.659	7.749	(0.924)	13381	10.0000	10.02
50 Ethyl tert-butyl ether (ETBE)	59	7.668	7.749	(0.925)	225639	10.0000	10.40
51 Nitromethane	30	7.803	7.839	(0.941)	5967	10.0000	7.275
52 2,2-Dichloropropane	77	7.866	7.920	(0.949)	99513	10.0000	9.854
55 Propionitrile (Ethyl cyanide)	54	8.083	8.083	(0.975)	10672	10.0000	6.818
* 58 Bromochloromethane	49	8.290	8.353	(1.000)	364587	50.0000	
57 Methacrylonitrile	67	8.326	8.353	(1.004)	16238	10.0000	8.592
63 1,1-Dichloro-1-propene	75	9.057	9.111	(1.093)	101102	10.0000	10.33
67 Isobutyl alcohol	74	9.409	9.517	(0.930)	18009	50.0000	39.10
71 tert-Amyl methyl ether (TAME)	73	9.662	9.725	(0.955)	199792	10.0000	9.908
* 73 1,4-Difluorobenzene	114	10.122	10.185	(1.000)	1237767	50.0000	
76 Methylcyclohexane	83	10.889	10.952	(1.076)	81601	10.0000	9.848(a)
77 1-Butanol	56	10.889	10.952	(1.076)	19883	50.0000	50.50
79 Dibromomethane	174	11.187	11.204	(1.105)	118687	10.0000	9.664
80 Methyl methacrylate	69	11.250	11.268	(1.111)	34316	10.0000	8.154
83 1-Bromo-2-chloroethane	144	12.008	12.035	(1.186)	20930	10.0000	9.554
84 2-Chloroethylvinyl ether	106	12.053	12.071	(1.191)	13219	50.0000	26.92
90 n-Octane	43	13.108	13.153	(0.852)	106175	10.0000	9.673
92 Ethyl methacrylate	69	13.496	13.496	(0.877)	56342	10.0000	6.492
94 1,3-Dichloropropane	76	13.902	13.929	(0.903)	104423	10.0000	9.946(a)
* 101 Chlorobenzene-d5	117	15.391	15.427	(1.000)	937140	50.0000	
100 1-Chlorohexane	91	15.427	15.445	(1.002)	86923	10.0000	9.600
103 1,1,1,2-Tetrachloroethane	131	15.599	15.635	(1.013)	105108	10.0000	9.679
106 n-Nonane	43	15.960	15.986	(1.037)	64452	10.0000	8.557
112 Isopropylbenzene (Cumene)	120	17.358	17.385	(1.128)	67453	10.0000	9.419
113 Cyclohexanone	55	17.538	17.547	(1.140)	25989	10.0000	6.873(a)
115 Bromobenzene	156	17.954	17.962	(1.166)	100482	10.0000	9.204(a)
117 1,2,3-Trichloropropane	110	18.017	18.035	(1.171)	54915	10.0000	9.640
118 trans-1,4-Dichloro-2-butene	88	18.089	18.080	(1.175)	2413	10.0000	3.267
119 n-Propylbenzene	91	18.170	18.197	(1.181)	187994	10.0000	8.918
122 3-Ethyltoluene	105	18.332	18.368	(1.191)	159910	10.0000	8.925
120 2-Chlorotoluene	126	18.323	18.350	(1.191)	53590	10.0000	9.368
125 n-Decane	57	18.540	18.576	(1.205)	61802	10.0000	8.215
121 4-Chlorotoluene	126	18.549	18.567	(1.205)	48049	10.0000	9.237
127 2-Ethyltoluene	105	18.910	18.928	(1.229)	159148	10.0000	8.981
128 .alpha.-Methylstyrene	118	18.982	18.982	(1.233)	47971	10.0000	7.829
129 tert-Butylbenzene	91	19.135	19.171	(1.243)	116117	10.0000	8.888
132 sec-Butylbenzene	105	19.587	19.605	(1.273)	211692	10.0000	8.492
133 D-Limonene	68	19.776	19.803	(1.285)	52661	10.0000	8.290
135 p-Isopropyltoluene (p-Cymene)	119	19.875	19.902	(1.291)	164245	10.0000	8.492
137 1,2,3-Trimethylbenzene	105	20.092	20.101	(1.305)	100276	10.0000	8.536
139 n-Butylbenzene	92	20.705	20.705	(1.345)	62229	10.0000	7.928
141 n-Undecane	57	20.922	20.931	(1.359)	76225	10.0000	10.31
142 1,2-Dibromo-3-chloropropane	157	22.059	22.059	(1.433)	83356	10.0000	6.799

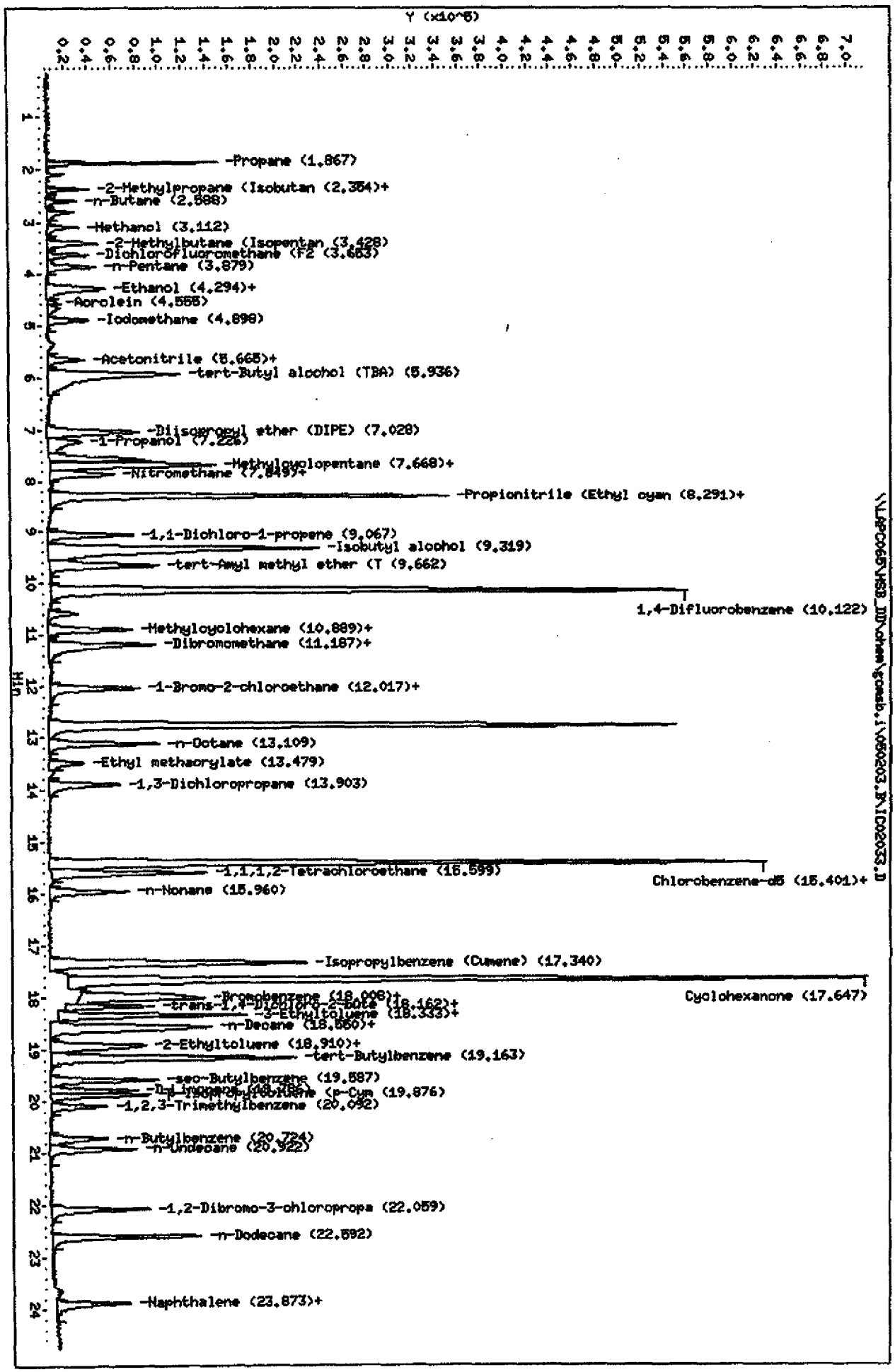
Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02033.D Page 3
Report Date: 03-Feb-2005 14:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
143 n-Dodecane	57	22.591	22.591	(1.468)	114663	10.0000	12.32
146 Naphthalene	128	23.665	23.520	(1.538)	40043	5.20000	4.178
147 1,2,3-Trichlorobenzene	180	23.872	23.854	(1.551)	80875	10.0000	8.987

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\LAPC065\HSB_DDT\chem\gcmsb.i\050203.B\IC02033.D
Date : 03-FEB-2005 10:43
Client ID: HSL0501164
Sample Info: 10 PPBV UBER STD,HSL0501164
Column phase: J&W DB-624
Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02034.D
Lab Smp Id: 25 PPBV UBER STD Client Smp ID: MSL0501164
Inj Date : 03-FEB-2005 11:19
Operator : AA Inst ID: gcmsb.i
Smp Info : 25 PPBV UBER STD,MSL0501164
Misc Info : 1,1,500,500,1,4,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 09:00 Cal File: IC02035.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Propane	43	2.065	2.092	(0.248)	10313	25.0000	26.01
6 2-Methylpropane (Isobutane)	43	2.353	2.389	(0.283)	86338	25.0000	24.40
7 Dimethyl ether (DME)	45	2.353	2.353	(0.283)	33096	25.0000	26.57
10 n-Butane	43	2.597	2.642	(0.312)	75273	25.0000	25.10
14 Methanol	31	3.102	3.219	(0.373)	65434	125.000	128.0
17 2-Methylbutane (Isopentane)	57	3.436	3.490	(0.413)	67934	25.0000	23.97
20 Dichlorofluoromethane (F21)	67	3.671	3.752	(0.441)	177730	25.0000	25.01
22 n-Pentane	43	3.896	3.959	(0.468)	147843	25.0000	25.55
24 Ethanol	46	4.293	4.410	(0.516)	49274	125.000	135.4
25 Ether (Diethyl ether)	59	4.320	4.383	(0.519)	85245	25.0000	25.96
26 Acrolein	56	4.555	4.600	(0.548)	46721	50.0000	62.27
32 Iodomethane	142	4.925	4.997	(0.592)	249890	25.0000	16.72
35 Acetonitrile	41	5.349	5.394	(0.643)	59986	50.0000	48.54
38 Cyclopentane	42	5.692	5.755	(0.684)	136987	25.0000	25.69

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02034.D Page 2
Report Date: 03-Feb-2005 14:05

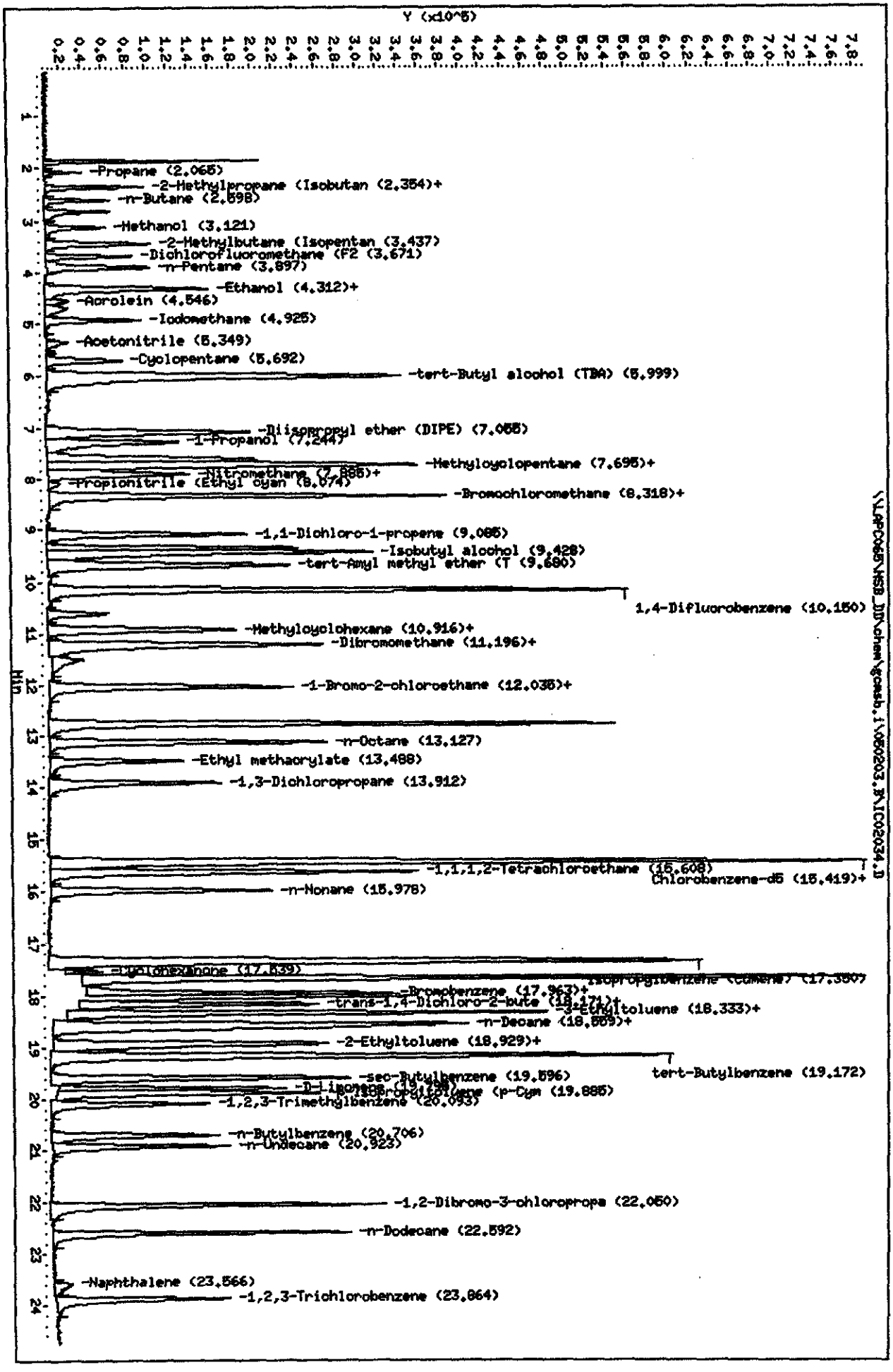
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
39 tert-Butyl alcohol (TBA)	59	5.999	6.089	(0.721)	1234019	125.000	139.1
46 Diisopropyl ether (DIPE)	45	7.054	7.099	(0.848)	514196	25.0000	26.05
47 1-Propanol	31	7.253	7.334	(0.872)	369680	125.000	138.3
49 Methylcyclopentane	84	7.686	7.749	(0.924)	35795	25.0000	26.34
50 Ethyl tert-butyl ether (ETBE)	59	7.695	7.749	(0.925)	559552	25.0000	25.33
51 Nitromethane	30	7.821	7.839	(0.940)	21172	25.0000	25.36
52 2,2-Dichloropropane	77	7.884	7.920	(0.948)	246953	25.0000	24.02
55 Propionitrile (Ethyl cyanide)	54	8.083	8.083	(0.972)	37793	25.0000	23.72
* 58 Bromochloromethane	49	8.317	8.353	(1.000)	371107	50.0000	
57 Methacrylonitrile	67	8.345	8.353	(1.003)	45628	25.0000	23.72
63 1,1-Dichloro-1-propene	75	9.084	9.111	(1.092)	254836	25.0000	25.59
67 Isobutyl alcohol	74	9.436	9.517	(0.930)	57452	125.000	123.8
71 tert-Amyl methyl ether (TAME)	73	9.680	9.725	(0.954)	507441	25.0000	24.98
* 73 1,4-Difluorobenzene	114	10.149	10.185	(1.000)	1247014	50.0000	
76 Methylcyclohexane	83	10.907	10.952	(1.075)	211295	25.0000	25.31
77 1-Butanol	56	10.916	10.952	(1.076)	51198	125.000	129.1
79 Dibromomethane	174	11.196	11.204	(1.103)	313366	25.0000	25.32
80 Methyl methacrylate	69	11.259	11.268	(1.109)	108651	25.0000	25.63
83 1-Bromo-2-chloroethane	144	12.035	12.035	(1.186)	58061	25.0000	26.31
84 2-Chloroethylvinyl ether	106	12.044	12.071	(1.187)	38873	125.000	78.58
90 n-Octane	43	13.117	13.153	(0.851)	291173	25.0000	26.00
92 Ethyl methacrylate	69	13.496	13.496	(0.876)	203473	25.0000	22.98
94 1,3-Dichloropropane	76	13.921	13.929	(0.903)	273091	25.0000	25.50
* 101 Chlorobenzene-d5	117	15.409	15.427	(1.000)	956096	50.0000	
100 1-Chlorohexane	91	15.427	15.445	(1.001)	236384	25.0000	25.59
103 1,1,1,2-Tetrachloroethane	131	15.608	15.635	(1.013)	279368	25.0000	25.22
106 n-Nonane	43	15.978	15.986	(1.037)	198795	25.0000	25.87
112 Isopropylbenzene (Cumene)	120	17.367	17.385	(1.127)	187307	25.0000	25.64
113 Cyclohexanone	55	17.539	17.547	(1.138)	61899	25.0000	16.04
115 Bromobenzene	156	17.945	17.962	(1.165)	276762	25.0000	24.85
117 1,2,3-Trichloropropane	110	18.017	18.035	(1.169)	147994	25.0000	25.46
118 trans-1,4-Dichloro-2-butene	88	18.080	18.080	(1.173)	11052	25.0000	14.67
119 n-Propylbenzene	91	18.170	18.197	(1.179)	562620	25.0000	26.16
122 3-Ethyltoluene	105	18.342	18.368	(1.190)	456606	25.0000	24.98
120 2-Chlorotoluene	126	18.333	18.350	(1.190)	147884	25.0000	25.34
125 n-Decane	57	18.549	18.576	(1.204)	177541	25.0000	23.13
121 4-Chlorotoluene	126	18.549	18.567	(1.204)	127764	25.0000	24.07
127 2-Ethyltoluene	105	18.910	18.928	(1.227)	447538	25.0000	24.76
128 .alpha.-Methylstyrene	118	18.964	18.982	(1.231)	157024	25.0000	25.12
129 tert-Butylbenzene	91	19.154	19.171	(1.243)	329286	25.0000	24.70
132 sec-Butylbenzene	105	19.596	19.605	(1.272)	629067	25.0000	24.73
133 D-Limonene	68	19.794	19.803	(1.285)	148657	25.0000	22.94
135 p-Isopropyltoluene (p-Cymene)	119	19.885	19.902	(1.290)	466462	25.0000	23.64
137 1,2,3-Trimethylbenzene	105	20.092	20.101	(1.304)	279767	25.0000	23.34
139 n-Butylbenzene	92	20.706	20.705	(1.344)	179895	25.0000	22.46
141 n-Undecane	57	20.922	20.931	(1.358)	169035	25.0000	22.42
142 1,2-Dibromo-3-chloropropane	157	22.050	22.059	(1.431)	264750	25.0000	21.17

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02034.D Page 3
Report Date: 03-Feb-2005 14:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
143 n-Dodecane	57	22.591	22.591	(1.466)	233148	25.0000	24.56
146 Naphthalene	128	23.566	23.520	(1.529)	99815	13.0000	10.21
147 1,2,3-Trichlorobenzene	180	23.864	23.854	(1.549)	183896	25.0000	20.03

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050203.B\IC02034.D
Date : 03-FEB-2005 11:19
Client ID: HSL0501164
Sample Info: 25 PPBV USER STD,HSL0501164
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02035.D
Lab Smp Id: 50 PPBV UBER STD Client Smp ID: MSL0501161
Inj Date : 03-FEB-2005 09:00
Operator : AA Inst ID: gcmsb.i
Smp Info : 50 PPBV UBER STD,MSL0501161
Misc Info : 1,1,125,125,1,5,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 09:00 Cal File: IC02035.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Propane	43	2.058	2.092	(0.247)	22161	50.0000	55.82
6 2-Methylpropane (Isobutane)	43	2.347	2.389	(0.282)	178668	50.0000	54.36
7 Dimethyl ether (DME)	45	2.338	2.353	(0.281)	69081	50.0000	55.10
10 n-Butane	43	2.591	2.642	(0.311)	150795	50.0000	53.82
14 Methanol	31	3.096	3.219	(0.372)	129063	250.000	278.6
17 2-Methylbutane (Isopentane)	57	3.439	3.490	(0.413)	149371	50.0000	55.71
20 Dichlorofluoromethane (F21)	67	3.682	3.752	(0.443)	364814	50.0000	54.46
22 n-Pentane	43	3.917	3.959	(0.471)	287460	50.0000	52.55
24 Ethanol	46	4.278	4.410	(0.514)	101424	250.000	274.0
25 Ether (Diethyl ether)	59	4.323	4.383	(0.520)	173935	50.0000	54.26
26 Acrolein	56	4.540	4.600	(0.546)	71493	100.000	92.71
32 Iodomethane	142	4.928	4.997	(0.592)	906517	50.0000	63.33
35 Acetonitrile	41	5.343	5.394	(0.642)	126152	100.000	106.6
38 Cyclopentane	42	5.704	5.755	(0.686)	259480	50.0000	51.54

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02035.D Page 2
Report Date: 03-Feb-2005 14:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
39	tert-Butyl alcohol (TBA)	59	6.001	6.089	(0.721)	2516499	250.000	275.9
46	Diisopropyl ether (DIPE)	45	7.057	7.099	(0.848)	982806	50.0000	52.36
47	1-Propanol	31	7.237	7.334	(0.870)	768382	250.000	265.9
49	Methylcyclopentane	84	7.689	7.749	(0.924)	71831	50.0000	55.20
50	Ethyl tert-butyl ether (ETBE)	59	7.698	7.749	(0.925)	1072339	50.0000	52.08
51	Nitromethane	30	7.824	7.839	(0.940)	36249	50.0000	45.35
52	2,2-Dichloropropane	77	7.887	7.920	(0.948)	544046	50.0000	55.50
55	Propionitrile (Ethyl cyanide)	54	8.058	8.083	(0.969)	82877	50.0000	54.33
* 58	Bromochloromethane	49	8.320	8.353	(1.000)	355309	50.0000	
57	Methacrylonitrile	67	8.338	8.353	(1.002)	99346	50.0000	53.94
63	1,1-Dichloro-1-propene	75	9.087	9.111	(1.092)	496340	50.0000	52.46
67	Isobutyl alcohol	74	9.430	9.517	(0.929)	127678	250.000	269.1
71	tert-Amyl methyl ether (TAME)	73	9.683	9.725	(0.954)	992381	50.0000	51.06
* 73	1,4-Difluorobenzene	114	10.152	10.185	(1.000)	1186291	50.0000	
76	Methylcyclohexane	83	10.919	10.952	(1.076)	397232	50.0000	50.26
77	1-Butanol	56	10.919	10.952	(1.076)	93510	250.000	246.7
79	Dibromomethane	174	11.189	11.204	(1.102)	653392	50.0000	54.14
80	Methyl methacrylate	69	11.243	11.268	(1.108)	224658	50.0000	52.40
83	1-Bromo-2-chloroethane	144	12.019	12.035	(1.184)	119465	50.0000	53.81
84	2-Chloroethylvinyl ether	106	12.037	12.071	(1.186)	147802	250.000	314.0
90	n-Octane	43	13.129	13.153	(0.852)	575226	50.0000	50.86
92	Ethyl methacrylate	69	13.472	13.496	(0.874)	492158	50.0000	52.89
94	1,3-Dichloropropane	76	13.914	13.929	(0.903)	527556	50.0000	50.82
* 101	Chlorobenzene-d5	117	15.412	15.427	(1.000)	915007	50.0000	
100	1-Chlorohexane	91	15.430	15.445	(1.001)	469141	50.0000	50.94
103	1,1,1,2-Tetrachloroethane	131	15.610	15.635	(1.013)	592479	50.0000	53.64
106	n-Nonane	43	15.971	15.986	(1.036)	410189	50.0000	49.81
112	Isopropylbenzene (Cumene)	120	17.370	17.385	(1.127)	391844	50.0000	53.25
113	Cyclohexanone	55	17.523	17.547	(1.137)	195501	50.0000	52.95
115	Bromobenzene	156	17.947	17.962	(1.165)	588768	50.0000	53.03
117	1,2,3-Trichloropropane	110	18.020	18.035	(1.169)	308994	50.0000	54.04
118	trans-1,4-Dichloro-2-butene	88	18.056	18.080	(1.172)	52194	50.0000	72.37
119	n-Propylbenzene	91	18.164	18.197	(1.179)	1137153	50.0000	51.27
122	3-Ethyltoluene	105	18.335	18.368	(1.190)	972246	50.0000	52.58
120	2-Chlorotoluene	126	18.326	18.350	(1.189)	301215	50.0000	51.40
125	n-Decane	57	18.552	18.576	(1.204)	361749	50.0000	48.56
121	4-Chlorotoluene	126	18.543	18.567	(1.203)	273468	50.0000	50.13
127	2-Ethyltoluene	105	18.913	18.928	(1.227)	944702	50.0000	51.71
128	.alpha.-Methylstyrene	118	18.967	18.982	(1.231)	366612	50.0000	52.31
129	tert-Butylbenzene	91	19.147	19.171	(1.242)	675035	50.0000	51.37
132	sec-Butylbenzene	105	19.589	19.605	(1.271)	1363432	50.0000	52.42
133	D-Limonene	68	19.788	19.803	(1.284)	313289	50.0000	49.03
135	p-Isopropyltoluene (p-Cymene)	119	19.878	19.902	(1.290)	1032797	50.0000	52.24
137	1,2,3-Trimethylbenzene	105	20.086	20.101	(1.303)	579372	50.0000	50.45
139	n-Butylbenzene	92	20.699	20.705	(1.343)	400978	50.0000	49.29
141	n-Undecane	57	20.916	20.931	(1.357)	313629	50.0000	43.46
142	1,2-Dibromo-3-chloropropane	157	22.044	22.059	(1.430)	659636	50.0000	55.10

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02035.D Page 3
Report Date: 03-Feb-2005 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
143 n-Dodecane	57	22.585	22.591	(1.465)	481395	50.0000	52.99
146 Naphthalene	128	23.532	23.520	(1.527)	271180	26.0000	28.30
147 1,2,3-Trichlorobenzene	180	23.848	23.854	(1.547)	419450	50.0000	51.28(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02035.D

Date : 03-FEB-2005 09:00

Client ID: MSL0501161

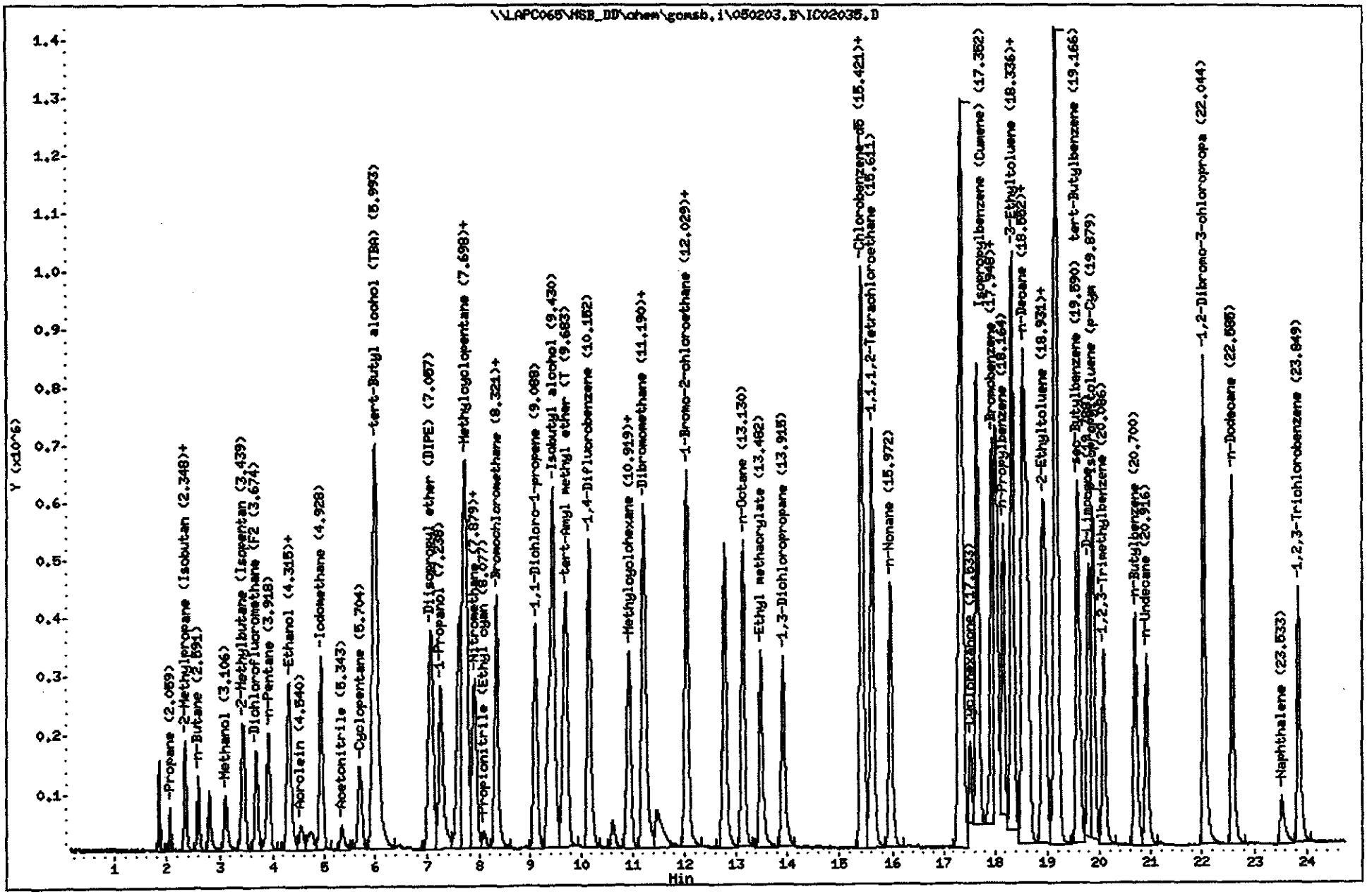
Instrument: gcmsb.i

Sample Info: 50 PPBV UBER STD,MSL0501161

Operator: AA

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02036.D Page 1
Report Date: 03-Feb-2005 14:06

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02036.D
Lab Smp Id: 100 PPBV UBER STD Client Smp ID: MSL0501161
Inj Date : 03-FEB-2005 11:55
Operator : AA Inst ID: gcmsb.i
Smp Info : 100 PPBV UBER STD,MSL0501161
Misc Info : 1,1,250,250,1,6,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 09:00 Cal File: IC02035.D
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	250.000	CalVol
SmpVol	250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Propane	43	2.068	2.092	(0.248)	44250	100.000	104.3
6 2-Methylpropane (Isobutane)	43	2.357	2.389	(0.283)	362573	100.000	95.79
7 Dimethyl ether (DME)	45	2.339	2.353	(0.281)	141208	100.000	106.0
10 n-Butane	43	2.610	2.642	(0.313)	311049	100.000	96.95
14 Methanol	31	3.142	3.219	(0.377)	259465	500.000	474.5
17 2-Methylbutane (Isopentane)	57	3.458	3.490	(0.415)	314505	100.000	103.8
20 Dichlorofluoromethane (F21)	67	3.693	3.752	(0.443)	745432	100.000	98.04
22 n-Pentane	43	3.918	3.959	(0.470)	610820	100.000	98.67
24 Ethanol	46	4.306	4.410	(0.517)	214529	500.000	551.3
25 Ether (Diethyl ether)	59	4.333	4.383	(0.520)	361551	100.000	102.9
26 Acrolein	56	4.550	4.600	(0.546)	137089	200.000	170.8
32 Iodomethane	142	4.947	4.997	(0.594)	2177106	100.000	136.1
35 Acetonitrile	41	5.344	5.394	(0.642)	281384	200.000	212.9
38 Cyclopentane	42	5.714	5.755	(0.686)	561027	100.000	98.37

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02036.D Page 2
Report Date: 03-Feb-2005 14:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	39 tert-Butyl alcohol (TBA)	59	6.020	6.089	(0.723)	5441581	500.000	573.5
	46 Diisopropyl ether (DIPE)	45	7.067	7.099	(0.848)	2122904	100.000	100.5
	47 1-Propanol	31	7.256	7.334	(0.871)	1820769	500.000	636.8
	49 Methylcyclopentane	84	7.708	7.749	(0.925)	142261	100.000	97.87
	50 Ethyl tert-butyl ether (ETBE)	59	7.717	7.749	(0.926)	2345585	100.000	99.27
	51 Nitromethane	30	7.825	7.839	(0.939)	79699	100.000	89.25
	52 2,2-Dichloropropane	77	7.897	7.920	(0.948)	1171126	100.000	106.5
	55 Propionitrile (Ethyl cyanide)	54	8.060	8.083	(0.968)	197749	100.000	116.0
*	58 Bromochloromethane	49	8.330	8.353	(1.000)	396980	50.0000	
	57 Methacrylonitrile	67	8.339	8.353	(1.001)	221721	100.000	107.7
	63 1,1-Dichloro-1-propene	75	9.097	9.111	(1.092)	1077811	100.000	101.2
	67 Isobutyl alcohol	74	9.440	9.517	(0.929)	285266	500.000	596.4
	71 tert-Amyl methyl ether (TAME)	73	9.693	9.725	(0.954)	2185134	100.000	104.3
*	73 1,4-Difluorobenzene	114	10.162	10.185	(1.000)	1285339	50.0000	
	76 Methylcyclohexane	83	10.929	10.952	(1.075)	878246	100.000	102.1
	77 1-Butanol	56	10.929	10.952	(1.075)	210186	500.000	514.1
	79 Dibromomethane	174	11.190	11.204	(1.101)	1359620	100.000	106.6
	80 Methyl methacrylate	69	11.245	11.268	(1.107)	523083	100.000	119.7
	83 1-Bromo-2-chloroethane	144	12.029	12.035	(1.184)	251446	100.000	110.5
	84 2-Chloroethylvinyl ether	106	12.048	12.071	(1.186)	272949	500.000	535.3
	90 n-Octane	43	13.130	13.153	(0.852)	1313831	100.000	111.2
	92 Ethyl methacrylate	69	13.482	13.496	(0.875)	1236403	100.000	132.4
	94 1,3-Dichloropropane	76	13.915	13.929	(0.903)	1172489	100.000	103.8
*	101 Chlorobenzene-d5	117	15.413	15.427	(1.000)	1008206	50.0000	
	100 1-Chlorohexane	91	15.431	15.445	(1.001)	1062009	100.000	109.0
	103 1,1,1,2-Tetrachloroethane	131	15.611	15.635	(1.013)	1292685	100.000	110.6
	106 n-Nonane	43	15.981	15.986	(1.037)	1002021	100.000	123.7
	112 Isopropylbenzene (Cumene)	120	17.371	17.385	(1.127)	858970	100.000	111.5
	113 Cyclohexanone	55	17.524	17.547	(1.137)	481320	100.000	118.3
	115 Bromobenzene	156	17.948	17.962	(1.164)	1293489	100.000	110.1
	117 1,2,3-Trichloropropane	110	18.021	18.035	(1.169)	649806	100.000	106.0
	118 trans-1,4-Dichloro-2-butene	88	18.066	18.080	(1.172)	130251	100.000	163.9
	119 n-Propylbenzene	91	18.174	18.197	(1.179)	2637055	100.000	116.3
	122 3-Ethyltoluene	105	18.345	18.368	(1.190)	2193224	100.000	113.8
	120 2-Chlorotoluene	126	18.336	18.350	(1.190)	674759	100.000	109.6
	125 n-Decane	57	18.562	18.576	(1.204)	937508	100.000	115.8
	121 4-Chlorotoluene	126	18.553	18.567	(1.204)	641821	100.000	114.7
	127 2-Ethyltoluene	105	18.914	18.928	(1.227)	2155670	100.000	113.1
	128 .alpha.-Methylstyrene	118	18.959	18.982	(1.230)	861600	100.000	130.7
	129 tert-Butylbenzene	91	19.157	19.171	(1.243)	1569161	100.000	111.6
	132 sec-Butylbenzene	105	19.590	19.605	(1.271)	3184694	100.000	118.7
	133 D-Limonene	68	19.789	19.803	(1.284)	773982	100.000	113.2
	135 p-Isopropyltoluene (p-Cymene)	119	19.879	19.902	(1.290)	2390003	100.000	114.9
	137 1,2,3-Trimethylbenzene	105	20.087	20.101	(1.303)	1360763	100.000	107.7
	139 n-Butylbenzene	92	20.700	20.705	(1.343)	1003228	100.000	118.8
	141 n-Undecane	57	20.917	20.931	(1.357)	837947	100.000	105.4
	142 1,2-Dibromo-3-chloropropane	157	22.045	22.059	(1.430)	1563212	100.000	118.5

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02036.D Page 3
Report Date: 03-Feb-2005 14:06

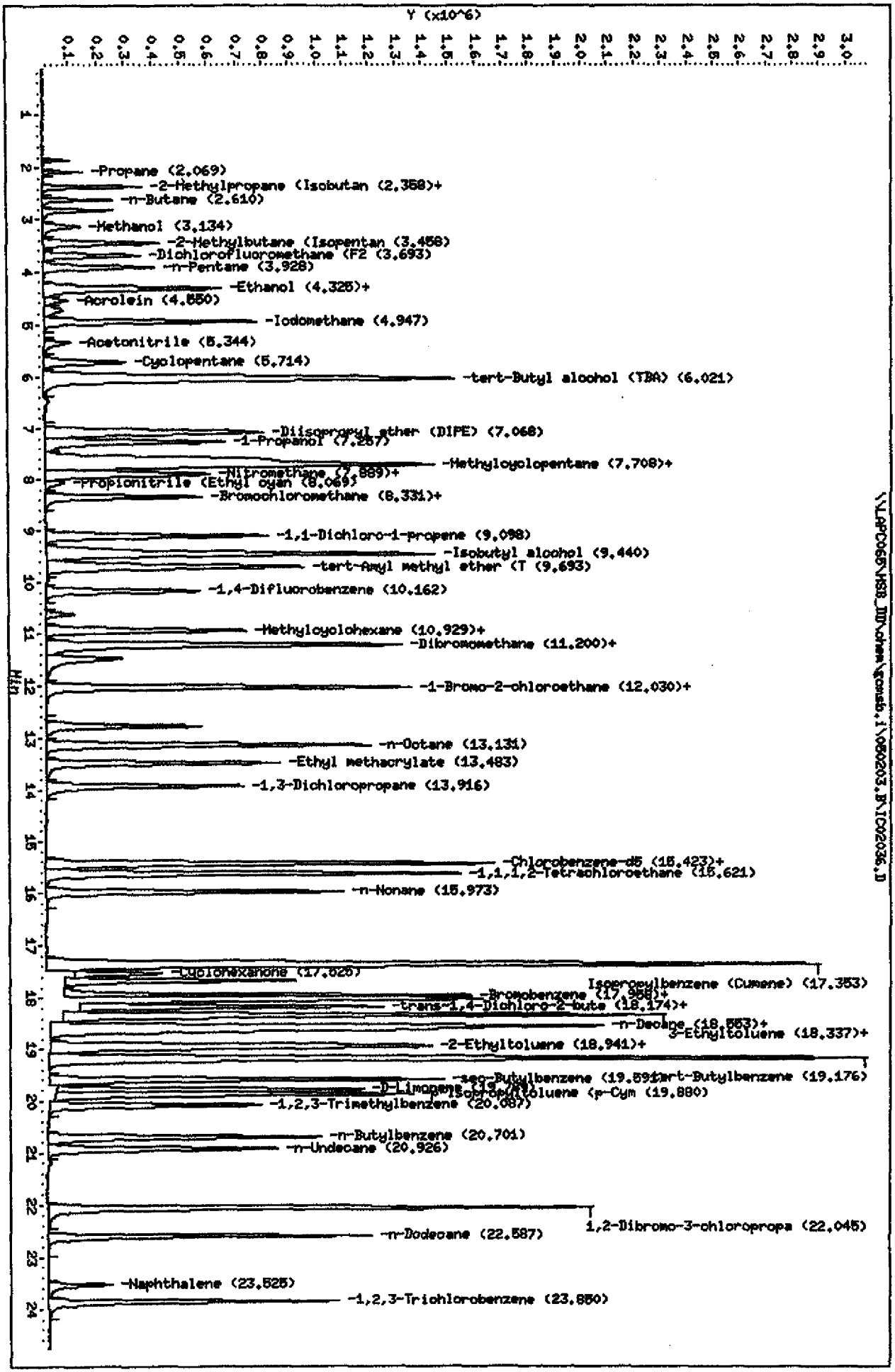
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
143 n-Dodecane	57	22.586	22.591	(1.465)	915428	100.000	91.46
146 Naphthalene	128	23.524	23.520	(1.526)	622512	52.0000	60.37
147 1,2,3-Trichlorobenzene	180	23.849	23.854	(1.547)	943869	100.000	97.49(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\LAPC065\HSB_DDV\chem\gcmsb.i\050203.B\IC02036.D
Date : 03-FEB-2005 11:55
Client ID: HSL0501161
Sample Info: 100 PPBV USER STD,HSL0501161
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: AA
Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02037.D Page 1
Report Date: 03-Feb-2005 14:06

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02037.D
Lab Smp Id: 500 PPBV UBER STD Client Smp ID: MSL0501161
Inj Date : 03-FEB-2005 13:03
Operator : AA Inst ID: gcmsb.i
Smp Info : 500 PPBV UBER STD,MSL0501161
Misc Info : 1,1,1250,1250,1,7,,UBER.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050203.b\TO14A.m
Meth Date : 03-Feb-2005 13:51 kammererd Quant Type: ISTD
Cal Date : 03-FEB-2005 13:03 Cal File: IC02037.D
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	1250.000	CalVol
SmpVol	1250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Propane	43	2.092	2.092	(0.250)	218811	500.000	461.4
6 2-Methylpropane (Isobutane)	43	2.389	2.389	(0.286)	1759981	500.000	415.9
7 Dimethyl ether (DME)	45	2.353	2.353	(0.282)	696880	500.000	467.8
10 n-Butane	43	2.642	2.642	(0.316)	1473869	500.000	410.9
14 Methanol	31	3.219	3.219	(0.385)	1269596	2500.00	2077
17 2-Methylbutane (Isopentane)	57	3.490	3.490	(0.418)	1470535	500.000	433.9
20 Dichlorofluoromethane (F21)	67	3.752	3.752	(0.449)	3539538	500.000	416.4
22 n-Pentane	43	3.959	3.959	(0.474)	2878118	500.000	415.8
24 Ethanol	46	4.410	4.410	(0.528)	1135393	2500.00	2610(A)
25 Ether (Diethyl ether)	59	4.383	4.383	(0.525)	1787171	500.000	455.0
26 Acrolein	56	4.600	4.600	(0.551)	1091895	1000.00	1217(A)
32 Iodomethane	142	4.997	4.997	(0.598)	9161643	500.000	512.4(A)
35 Acetonitrile	41	5.394	5.394	(0.646)	1556279	1000.00	1053(A)
38 Cyclopentane	42	5.755	5.755	(0.689)	2669561	500.000	418.7

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02037.D Page 2
Report Date: 03-Feb-2005 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
39 tert-Butyl alcohol (TBA)	59	6.089	6.089	(0.729)	21781392	2500.00	2053
46 Diisopropyl ether (DIPE)	45	7.099	7.099	(0.850)	10054560	500.000	426.0
47 1-Propanol	31	7.334	7.334	(0.878)	9495264	2500.00	2971(A)
49 Methylcyclopentane	84	7.749	7.749	(0.928)	700828	500.000	431.2
50 Ethyl tert-butyl ether (ETBE)	59	7.749	7.749	(0.928)	10676071	500.000	404.2
51 Nitromethane	30	7.839	7.839	(0.938)	728070	500.000	729.2(A)
52 2,2-Dichloropropane	77	7.920	7.920	(0.948)	5305597	500.000	431.6
55 Propionitrile (Ethyl cyanide)	54	8.083	8.083	(0.968)	1069527	500.000	561.3(A)
* 58 Bromochloromethane	49	8.353	8.353	(1.000)	443813	50.0000	
57 Methacrylonitrile	67	8.353	8.353	(1.000)	1191352	500.000	517.8(A)
63 1,1-Dichloro-1-propene	75	9.111	9.111	(1.091)	5069836	500.000	425.7
67 Isobutyl alcohol	74	9.517	9.517	(0.934)	1514485	2500.00	3127(A)
71 tert-Amyl methyl ether (TAME)	73	9.725	9.725	(0.955)	10263136	500.000	484.0
* 73 1,4-Difluorobenzene	114	10.185	10.185	(1.000)	1301491	50.0000	
76 Methylcyclohexane	83	10.952	10.952	(1.075)	4170471	500.000	478.6
77 1-Butanol	56	10.952	10.952	(1.075)	993968	2500.00	2401
79 Dibromomethane	174	11.204	11.204	(1.100)	6268912	500.000	485.4
80 Methyl methacrylate	69	11.268	11.268	(1.106)	2574231	500.000	581.7(A)
83 1-Bromo-2-chloroethane	144	12.035	12.035	(1.182)	1193368	500.000	518.0(A)
84 2-Chloroethylvinyl ether	106	12.071	12.071	(1.185)	1944195	2500.00	3765(A)
90 n-Octane	43	13.153	13.153	(0.853)	6451110	500.000	541.8(A)
92 Ethyl methacrylate	69	13.496	13.496	(0.875)	6760776	500.000	718.2(A)
94 1,3-Dichloropropane	76	13.929	13.929	(0.903)	5587045	500.000	490.6
* 101 Chlorobenzene-d5	117	15.427	15.427	(1.000)	1016559	50.0000	
100 1-Chlorohexane	91	15.445	15.445	(1.001)	5273516	500.000	536.9(A)
103 1,1,1,2-Tetrachloroethane	131	15.635	15.635	(1.013)	5935494	500.000	503.9(A)
106 n-Nonane	43	15.986	15.986	(1.036)	5541517	500.000	678.3(A)
112 Isopropylbenzene (Cumene)	120	17.385	17.385	(1.127)	4112776	500.000	529.4(A)
113 Cyclohexanone	55	17.547	17.547	(1.137)	2929979	500.000	714.3(A)
115 Bromobenzene	156	17.962	17.962	(1.164)	6441751	500.000	544.0(A)
117 1,2,3-Trichloropropane	110	18.035	18.035	(1.169)	3046172	500.000	493.0
118 trans-1,4-Dichloro-2-butene	88	18.080	18.080	(1.172)	901796	500.000	1126(A)
119 n-Propylbenzene	91	18.197	18.197	(1.180)	13513084	500.000	591.0(A)
122 3-Ethyltoluene	105	18.368	18.368	(1.191)	11112729	500.000	571.8(A)
120 2-Chlorotoluene	126	18.350	18.350	(1.189)	3475416	500.000	560.0(A)
125 n-Decane	57	18.576	18.576	(1.204)	4818273	500.000	590.4(A)
121 4-Chlorotoluene	126	18.567	18.567	(1.204)	3554666	500.000	630.0(A)
127 2-Ethyltoluene	105	18.928	18.928	(1.227)	11232379	500.000	584.4(A)
128 .alpha.-Methylstyrene	118	18.982	18.982	(1.230)	5106362	500.000	768.3(A)
129 tert-Butylbenzene	91	19.171	19.171	(1.243)	7784688	500.000	549.3(A)
132 sec-Butylbenzene	105	19.605	19.605	(1.271)	16183116	500.000	598.5(A)
133 D-Limonene	68	19.803	19.803	(1.284)	4346292	500.000	630.8(A)
135 p-Isopropyltoluene (p-Cymene)	119	19.902	19.902	(1.290)	12559104	500.000	598.6(A)
137 1,2,3-Trimethylbenzene	105	20.101	20.101	(1.303)	7212541	500.000	566.0(A)
139 n-Butylbenzene	92	20.705	20.705	(1.342)	5881800	500.000	690.8(A)
141 n-Undecane	57	20.931	20.931	(1.357)	4603617	500.000	574.3(A)
142 1,2-Dibromo-3-chloropropane	157	22.059	22.059	(1.430)	7887651	500.000	593.1(A)

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02037.D Page 3
Report Date: 03-Feb-2005 14:06

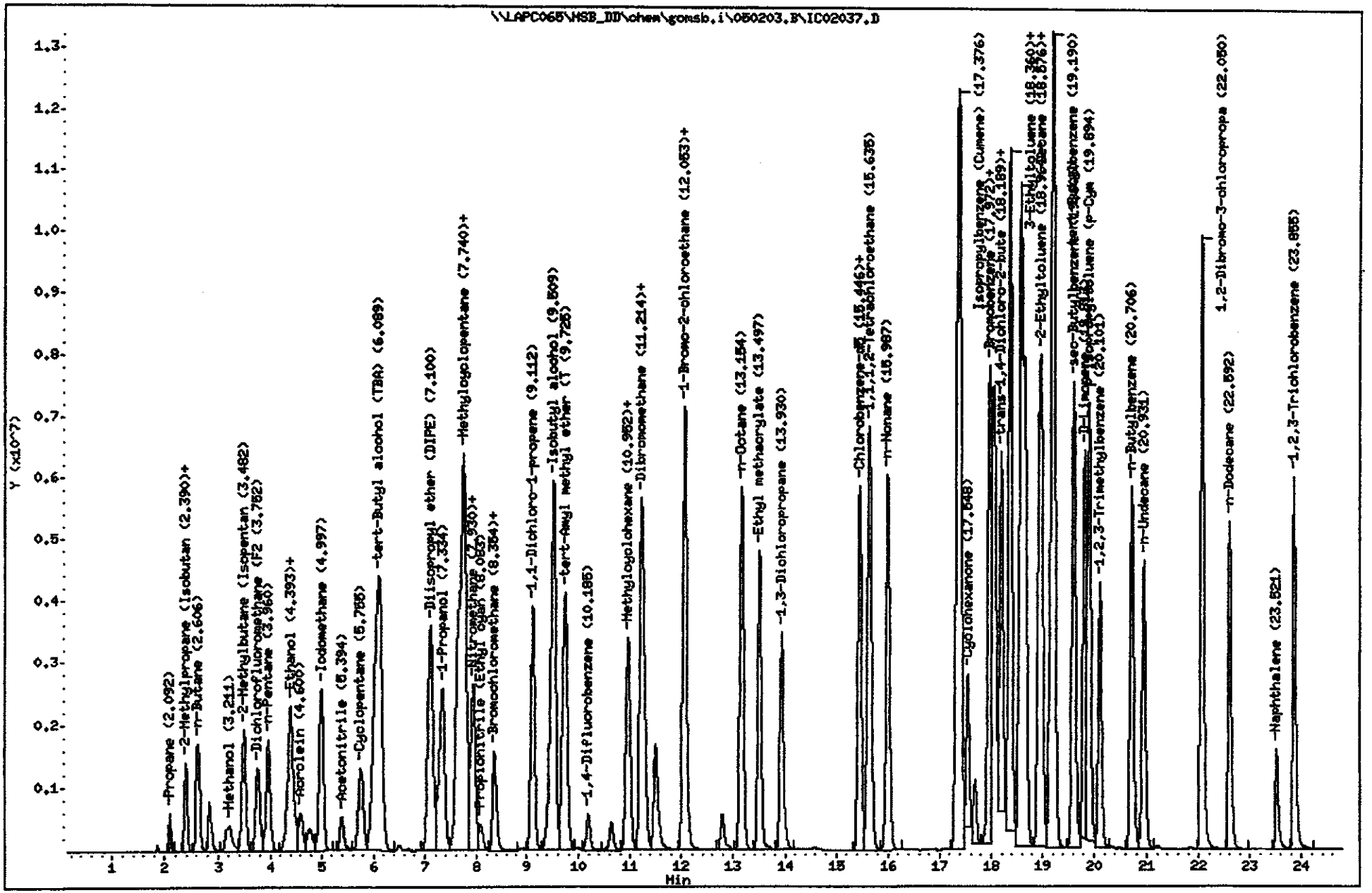
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
143 n-Dodecane	57	22.591	22.591	(1.464)	4090348	500.000	405.3
146 Naphthalene	128	23.520	23.520	(1.525)	3393422	260.000	326.4(A)
147 1,2,3-Trichlorobenzene	180	23.854	23.854	(1.546)	5002298	500.000	512.4(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050203.B\IC02037.D
Date : 03-FEB-2005 13:03
Client ID: MSL0501161
Sample Info: 500 PPBV UBER STD,MSL0501161

Instrument: gcmsb.i
Operator: AA
Column phase: J&W DB-624
Column diameter: 0.53



SEVERN TRENT STL

TO-14A - Sample / QC Data

Date Analyzed / QC Batch: 042605/511651I

STL Los Angeles
GC/MS-AIR INSTRUMENT LOG
GC/MS-AIR

Page:_____

Inst ID : gcmsb.i
Batch ID : 050426.B
Tune File : BF050211.U
Method File: TO-14A
ICAL ID: 04-21-05
Reviewed By: _____
Date: _____

I.S. Standard ID:PSL9911283
Blank Lot No:14-103589655-2
MDL Date:01-20-05

|X| TO-14A/TO-15 Med (SOP: COI-MS-003) | |EPA TO-15 SCAN OR SIM | |TO14A Low

Batch : _____

CONTAINER NUMBER is 001 for all except as indicated otherwise

Date	Time	Oper	Work Order	Lot ID	Client SmpID or Std ID	File ID	Final Press	Init Pres	Smp Vol	Dil	Line No.	Comments
26-APR-2005	07:59	DLK	BFB	TUNING	PSL9911283	BF04261.D	1	1	28	1	A	OK
26-APR-2005	08:33	DLK	25 PPBV	FREON 141B	MSL0501486	CC04261.D	1	1	250	1	1	
26-APR-2005	09:07	DLK	50 PPBV	ADD-ONS STD	MSL0501515	CC04262.D	1	1	250	1	2	
26-APR-2005	09:35	DLK	50 PPBV	CCV STD	MSL0501496	CC04263.D	1	1	125	1	B	
26-APR-2005	10:10	DLK	LCS	LCS	PSL9911359	LC04261.D	1	1	250	1	C	
26-APR-2005	10:39	DLK	LCSD	LCSD	PSL9911359	LC04262.D	1	1	250	1	C	
26-APR-2005	11:16	DLK	BLANK	METHOD BLANK	93164	MB04261.D	1	1	500	1	3	
26-APR-2005	11:44	DLK	G803C1AC	H5D220226-1	1900N TANK	B8263.D	18.2	3.36	25	108.3	4	

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: H5D220226-1

Lab File ID (Standard): CC04263 Date Analyzed: 04/26/05

Instrument ID: GCMSB Time Analyzed: 0935

Matrix: (soil/water) AIR Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
	12 HOUR STD	621276	8.34	2172698	10.17	1851779	15.42
	UPPER LIMIT	869786	8.84	3041777	10.67	2592491	15.92
	LOWER LIMIT	372766	7.84	1303619	9.67	1111067	14.92
	EPA SAMPLE NO.						
01	PSL9911359	626741	8.32	2151564	10.15	1789549	15.41
02	PSL9911359	605006	8.33	2085635	10.16	1770695	15.42
03	93164	610880	8.33	2055472	10.16	1768357	15.41
04	1900N TANK	616425	8.33	2093258	10.15	1807817	15.41
05							
06							
07							
08							
09							
10							
11							
12							
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17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 40% of internal standard area.
LOWER LIMIT = - 40% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\BF04261.D Page 1
Report Date: 26-Apr-2005 08:04

STL Los Angeles

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\BF04261.D
Lab Smp Id: BFB Client Smp ID: PSL9911283
Inj Date : 26-APR-2005 07:59
Operator : DLK Inst ID: gcmsb.i
Smp Info : BFB,PSL9911283,,TUNING
Misc Info : ,,28,28,3,,BFB,,,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\BFB.m
Meth Date : 23-Feb-2005 11:58 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: LAPC065

Concentration Formula: Amt * DF * Uf * Vf * VI

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.087	4.200	(0.000)	95	122018			0.00- 100.00	100.00
4.087	4.200	(0.000)	50	19837			15.00- 40.00	16.26
4.087	4.200	(0.000)	75	57128			30.00- 60.00	46.82
4.087	4.200	(0.000)	96	7986			5.00- 9.00	6.54
4.087	4.200	(0.000)	173	0			0.00- 2.00	0.00
4.087	4.200	(0.000)	174	96154			50.00- 120.00	78.80
4.087	4.200	(0.000)	175	7549			5.00- 9.00	7.85
4.087	4.200	(0.000)	176	96437			95.00- 101.00	100.29
4.087	4.200	(0.000)	177	7209			5.00- 9.00	7.48

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\BF04261.D

Date : 26-APR-2005 07:59

Client ID: PSL9911283

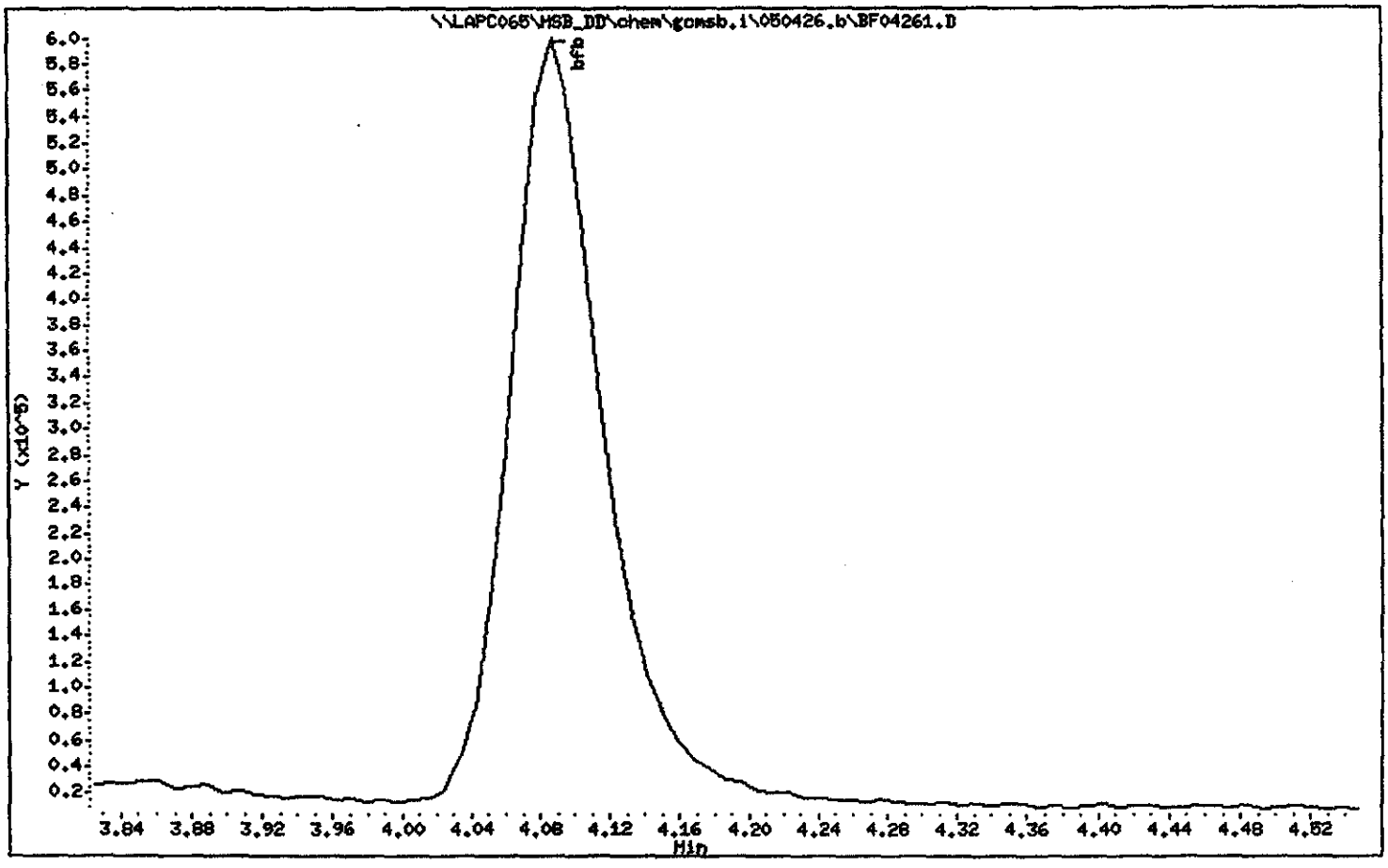
Instrument: gcmsb.i

Sample Info: BFB,PSL9911283,,TUNING

Operator: DLK

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\BF04261.D

Date : 26-APR-2005 07:59

Client ID: PSL9911283

Instrument: gcmsb.i

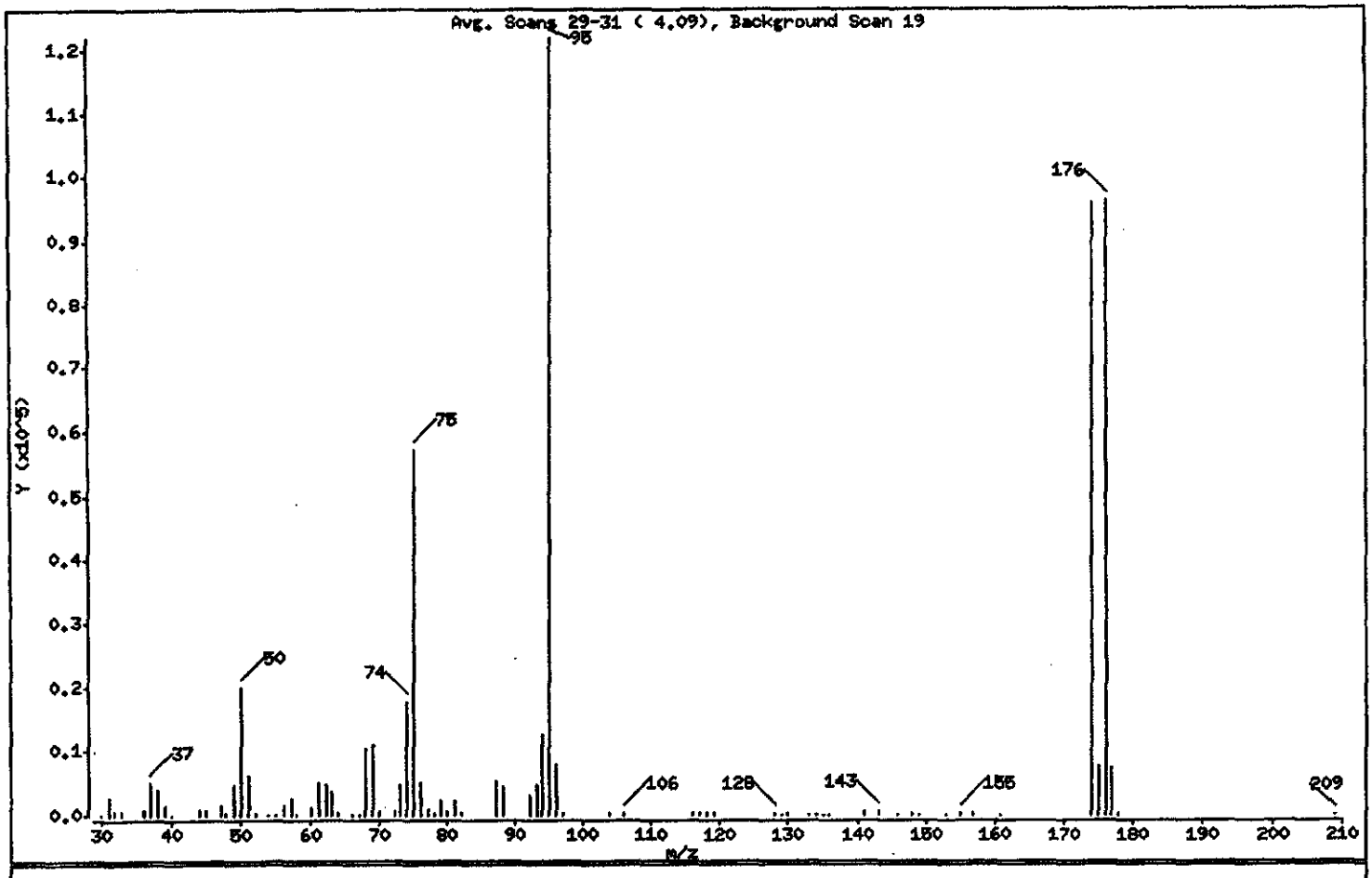
Sample Info: BFB,PSL9911283,,TUNING

Operator: DLK

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.26
75	30.00 - 60.00% of mass 95	46.82
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	78.80
175	5.00 - 9.00% of mass 174	6.19 (7.85)
176	95.00 - 101.00% of mass 174	79.04 (100.29)
177	5.00 - 9.00% of mass 176	5.91 (7.48)

AA 4/26/05

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\BF04261.D

Date : 26-APR-2005 07:59

Client ID: PSL9911283

Instrument: gcmsb.i

Sample Info: BFB,PSL9911283,,TUNING

Operator: DLK

Column phase: J&W DB-624

Column diameter: 0.53

Data File: BF04261.D
Spectrum: Avg. Scans 29-31 (4.09), Background Scan 19
Location of Maximum: 95.00
Number of points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	61	57.00	2546	80.00	514	133.00	77
31.00	2775	58.00	61	81.00	2118	134.00	59
32.00	501	60.00	1205	82.00	246	135.00	84
33.00	455	61.00	4939	87.00	5377	136.00	130
36.00	855	62.00	4788	88.00	4590	141.00	586
37.00	5060	63.00	3507	92.00	3068	143.00	628
38.00	4023	64.00	311	93.00	4636	146.00	60
39.00	1373	66.00	61	94.00	12759	148.00	243
40.00	88	67.00	97	95.00	122016	149.00	58
44.00	721	68.00	10506	96.00	7986	153.00	60
45.00	944	69.00	10967	97.00	358	155.00	339
47.00	1442	70.00	643	104.00	407	157.00	161
48.00	409	72.00	543	106.00	398	161.00	59
49.00	4692	73.00	4742	116.00	312	174.00	96152
50.00	19832	74.00	17752	117.00	352	175.00	7549
51.00	6084	75.00	57128	118.00	329	176.00	96432
52.00	337	76.00	5039	119.00	353	177.00	7209
54.00	67	77.00	970	128.00	415	178.00	218
55.00	83	78.00	375	129.00	60	209.00	81
56.00	1353	79.00	2113	130.00	243		

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04262.D Page 5
Report Date: 26-Apr-2005 10:46

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcmsb.i
Lab File ID: CC04262.D
Analysis Type: AIR
Lab Sample ID: 50 PPBV
Method: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m

Injection Date: 26-APR-2005 09:07
Init. Cal. Date(s): 03-FEB-2005 22-APR-2005
Init. Cal. Times: 09:00 01:35
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
14 Methanol	0.06887	0.05084	0.010	-26.2	30.0	
17 2-Methylbutane (Isopentane)	0.38180	0.40719	0.010	6.7	30.0	
22 n-Pentane	0.77971	0.78206	0.010	0.3	30.0	
24 Ethanol	0.04901	0.05389	0.010	9.9	30.0	
25 Ether (Diethyl ether)	0.44250	0.46748	0.010	5.6	30.0	
26 Acrolein	0.10109	0.16080	0.010	59.1	30.0	<-
32 Iodomethane	2.01421	2.92449	0.010	45.2	30.0	<-
35 Acetonitrile	0.16650	0.18171	0.010	9.1	30.0	
38 Cyclopentane	0.71833	0.72169	0.010	0.5	30.0	
39 tert-Butyl alcohol (TBA)	1.19509	1.38765	0.010	16.1	30.0	
46 Diisopropyl ether (DIPE)	2.65925	2.78445	0.010	4.7	30.0	
47 1-Propanol	0.36010	0.46259	0.010	28.5	30.0	
49 Methylcyclopentane	0.18308	0.19750	0.010	7.9	30.0	
50 Ethyl tert-butyl ether (ETB	2.97597	2.95259	0.010	-0.8	30.0	
51 Nitromethane	0.11248	0.13239	0.010	17.7	30.0	
52 2,2-Dichloropropane	1.38502	1.62034	0.010	17.0	30.0	
55 Propionitrile (Ethyl cyanid	0.21467	0.26985	0.010	25.7	30.0	
57 Methacrylonitrile	0.25918	0.29147	0.010	12.5	30.0	
63 1,1-Dichloro-1-propene	1.34179	1.42933	0.010	6.5	30.0	
67 Isobutyl alcohol	0.01861	0.02162	0.010	16.2	30.0	
71 tert-Amyl methyl ether (TAM	0.81459	0.81786	0.010	0.4	30.0	
77 1-Butanol	0.01590	0.01527	0.010	-4.0	30.0	
76 Methylcyclohexane	0.33473	0.33304	0.010	-0.5	30.0	
79 Dibromomethane	0.49612	0.50080	0.010	0.9	30.0	
80 Methyl methacrylate	0.17000	0.20608	0.010	21.2	30.0	
83 1-Bromo-2-chloroethane	0.08850	0.09812	0.010	10.9	30.0	
84 2-Chloroethylvinyl ether	0.01984	0.01419	0.010	-28.5	30.0	
90 n-Octane	0.58565	0.60889	0.010	4.0	30.0	
92 Ethyl methacrylate	0.46303	0.61777	0.010	33.4	30.0	<-
94 1,3-Dichloropropane	0.56017	0.56520	0.010	0.9	30.0	
100 1-Chlorohexane	0.48310	0.52469	0.010	8.6	30.0	
103 1,1,1,2-Tetrachloroethane	0.57940	0.60222	0.010	3.9	30.0	
106 n-Nonane	0.40185	0.57413	0.010	42.9	30.0	<-
112 Isopropylbenzene (Cumene)	0.38210	0.46627	0.010	22.0	30.0	
113 Cyclohexanone	0.20175	0.27965	0.010	38.6	30.0	<-

Gosvoyor

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04262.D
Report Date: 26-Apr-2005 10:46

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcmsb.i
Lab File ID: CC04262.D
Analysis Type: AIR
Lab Sample ID: 50 PPBV
Method: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m

Injection Date: 26-APR-2005 09:07
Init. Cal. Date(s): 03-FEB-2005 22-APR-2005
Init. Cal. Times: 09:00 01:35
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
115 Bromobenzene	0.58247	0.65119	0.010	11.8	30.0	
117 1,2,3-Trichloropropane	0.30392	0.31096	0.010	2.3	30.0	
118 trans-1,4-Dichloro-2-butene	0.03941	0.08318	0.010	111.1	30.0	<-
119 n-Propylbenzene	1.12467	1.56763	0.010	39.4	30.0	<-
120 2-Chlorotoluene	0.30523	0.38912	0.010	27.5	30.0	
122 3-Ethyltoluene	0.95590	1.37716	0.010	44.1	30.0	<-
121 4-Chlorotoluene	0.27754	0.40777	0.010	46.9	30.0	<-
125 n-Decane	0.40140	0.50847	0.010	26.7	30.0	
127 2-Ethyltoluene	0.94543	1.34368	0.010	42.1	30.0	<-
128 .alpha.-Methylstyrene	0.32691	0.57171	0.010	74.9	30.0	<-
129 tert-Butylbenzene	0.69706	0.86446	0.010	24.0	30.0	
132 sec-Butylbenzene	1.33003	1.96554	0.010	47.8	30.0	<-
133 D-Limonene	0.33891	0.46766	0.010	38.0	30.0	<-
135 p-Isopropyltoluene (p-Cymen	1.03189	1.56316	0.010	51.5	30.0	<-
137 1,2,3-Trimethylbenzene	0.62676	0.87736	0.010	40.0	30.0	<-
139 n-Butylbenzene	0.41877	0.67120	0.010	60.3	30.0	<-
141 n-Undecane	0.39429	0.34791	0.010	-11.8	30.0	
142 1,2-Dibromo-3-chloropropane	0.65412	0.75104	0.010	14.8	30.0	
143 n-Dodecane	0.49639	0.20266	0.010	-59.2	30.0	<-
146 Naphthalene	0.51137	0.62036	0.010	21.3	30.0	
147 1,2,3-Trichlorobenzene	0.48015	0.54088	0.010	12.6	30.0	

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04262.D
Lab Smp Id: 50 PPBV Client Smp ID: MSL0501515
Inj Date : 26-APR-2005 09:07
Operator : DLK Inst ID: gcmsb.i
Smp Info : 50 PPBV,MSL0501515,, ADD-ONS STD
Misc Info : 1,1,250,250,2,,,UBER2.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 26-Apr-2005 10:46 TARGET Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: UBER2.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	250.000	CalVol
SmpVol	250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
14 Methanol	31	3.107	3.107	(0.373)	165081	250.000	184.6
17 2-Methylbutane (Isopentane)	57	3.432	3.432	(0.413)	264428	50.0000	53.32
22 n-Pentane	43	3.901	3.901	(0.469)	507868	50.0000	50.15
24 Ethanol	46	4.271	4.271	(0.513)	174983	250.000	274.9(Q)
25 Ether (Diethyl ether)	59	4.298	4.298	(0.517)	303581	50.0000	52.82
26 Acrolein	56	4.523	4.523	(0.544)	208841	100.000	159.0
32 Iodomethane	142	4.920	4.920	(0.591)	1899153	50.0000	72.60
35 Acetonitrile	41	5.344	5.344	(0.642)	236002	100.000	109.1
38 Cyclopentane	42	5.696	5.696	(0.685)	468663	50.0000	50.23
39 tert-Butyl alcohol (TBA)	59	5.975	5.975	(0.718)	4505676	250.000	290.3
46 Diisopropyl ether (DIPE)	45	7.049	7.049	(0.847)	1808212	50.0000	52.35
47 1-Propanol	31	7.229	7.229	(0.869)	1502018	250.000	321.2
49 Methylcyclopentane	84	7.689	7.689	(0.924)	128256	50.0000	53.94
50 Ethyl tert-butyl ether (ETBE)	59	7.689	7.689	(0.924)	1917401	50.0000	49.61

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04262.D Page 2
Report Date: 26-Apr-2005 10:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
51 Nitromethane	30	7.824	7.824	(0.940)	85975	50.0000	58.85(Q)
52 2,2-Dichloropropane	77	7.887	7.887	(0.948)	1052244	50.0000	58.50
55 Propionitrile (Ethyl cyanide)	54	8.059	8.059	(0.969)	175240	50.0000	62.85
* 58 Bromochloromethane	49	8.320	8.320	(1.000)	649396	50.0000	
57 Methacrylonitrile	67	8.338	8.338	(1.002)	189276	50.0000	56.23
63 1,1-Dichloro-1-propene	75	9.087	9.087	(1.092)	928199	50.0000	53.26
67 Isobutyl alcohol	74	9.430	9.430	(0.929)	239261	250.000	290.5
71 tert-Amyl methyl ether (TAME)	73	9.682	9.682	(0.954)	1810286	50.0000	50.20
* 73 1,4-Difluorobenzene	114	10.151	10.151	(1.000)	2213448	50.0000	
77 1-Butanol	56	10.918	10.918	(1.076)	169021	250.000	240.1
76 Methylcyclohexane	83	10.927	10.927	(1.076)	737177	50.0000	49.75
79 Dibromomethane	174	11.197	11.197	(1.103)	1108488	50.0000	50.47
80 Methyl methacrylate	69	11.242	11.242	(1.108)	456151	50.0000	60.61(Q)
83 1-Bromo-2-chloroethane	144	12.027	12.027	(1.185)	217188	50.0000	55.44(Q)
84 2-Chloroethylvinyl ether	106	12.045	12.045	(1.187)	157041	250.000	178.8(Q)
90 n-Octane	43	13.127	13.127	(0.852)	1115648	50.0000	51.98
92 Ethyl methacrylate	69	13.479	13.479	(0.875)	1131915	50.0000	66.71
94 1,3-Dichloropropane	76	13.921	13.921	(0.903)	1035583	50.0000	50.45
* 101 Chlorobenzene-d5	117	15.409	15.409	(1.000)	1832250	50.0000	
100 1-Chlorohexane	91	15.436	15.436	(1.002)	961361	50.0000	54.30
103 1,1,1,2-Tetrachloroethane	131	15.617	15.617	(1.013)	1103414	50.0000	51.97
106 n-Nonane	43	15.968	15.968	(1.036)	1051951	50.0000	71.44
112 Isopropylbenzene (Cumene)	120	17.357	17.357	(1.126)	854321	50.0000	61.01
113 Cyclohexanone	55	17.529	17.529	(1.138)	512386	50.0000	69.31
115 Bromobenzene	156	17.944	17.944	(1.164)	1193149	50.0000	55.90
117 1,2,3-Trichloropropane	110	18.016	18.016	(1.169)	569761	50.0000	51.16
118 trans-1,4-Dichloro-2-butene	88	18.061	18.061	(1.172)	152399	50.0000	105.5
119 n-Propylbenzene	91	18.169	18.169	(1.179)	2872298	50.0000	69.69
120 2-Chlorotoluene	126	18.331	18.331	(1.190)	712962	50.0000	63.74
122 3-Ethyltoluene	105	18.340	18.340	(1.190)	2523308	50.0000	72.04
121 4-Chlorotoluene	126	18.548	18.548	(1.204)	747140	50.0000	73.46
125 n-Decane	57	18.548	18.548	(1.204)	931635	50.0000	63.34
127 2-Ethyltoluene	105	18.909	18.909	(1.227)	2461951	50.0000	71.06
128 .alpha.-Methylstyrene	118	18.954	18.954	(1.230)	1047519	50.0000	87.44
129 tert-Butylbenzene	91	19.143	19.143	(1.242)	1583904	50.0000	62.01
132 sec-Butylbenzene	105	19.585	19.585	(1.271)	3601363	50.0000	73.89
133 D-Limonene	68	19.784	19.784	(1.284)	856876	50.0000	69.00
135 p-Isopropyltoluene (p-Cymene)	119	19.874	19.874	(1.290)	2864106	50.0000	75.74
137 1,2,3-Trimethylbenzene	105	20.081	20.081	(1.303)	1607538	50.0000	69.99
139 n-Butylbenzene	92	20.694	20.694	(1.343)	1229813	50.0000	80.14
141 n-Undecane	57	20.920	20.920	(1.358)	637460	50.0000	44.12
142 1,2-Dibromo-3-chloropropane	157	22.047	22.047	(1.431)	1376091	50.0000	57.41
143 n-Dodecane	57	22.589	22.589	(1.466)	371322	50.0000	20.41
146 Naphthalene	128	23.517	23.517	(1.526)	591061	26.0000	31.54
147 1,2,3-Trichlorobenzene	180	23.842	23.842	(1.547)	991025	50.0000	56.32(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050426.B\CC04262.D

Date : 26-APR-2005 09:07

Client ID: HSL0501515

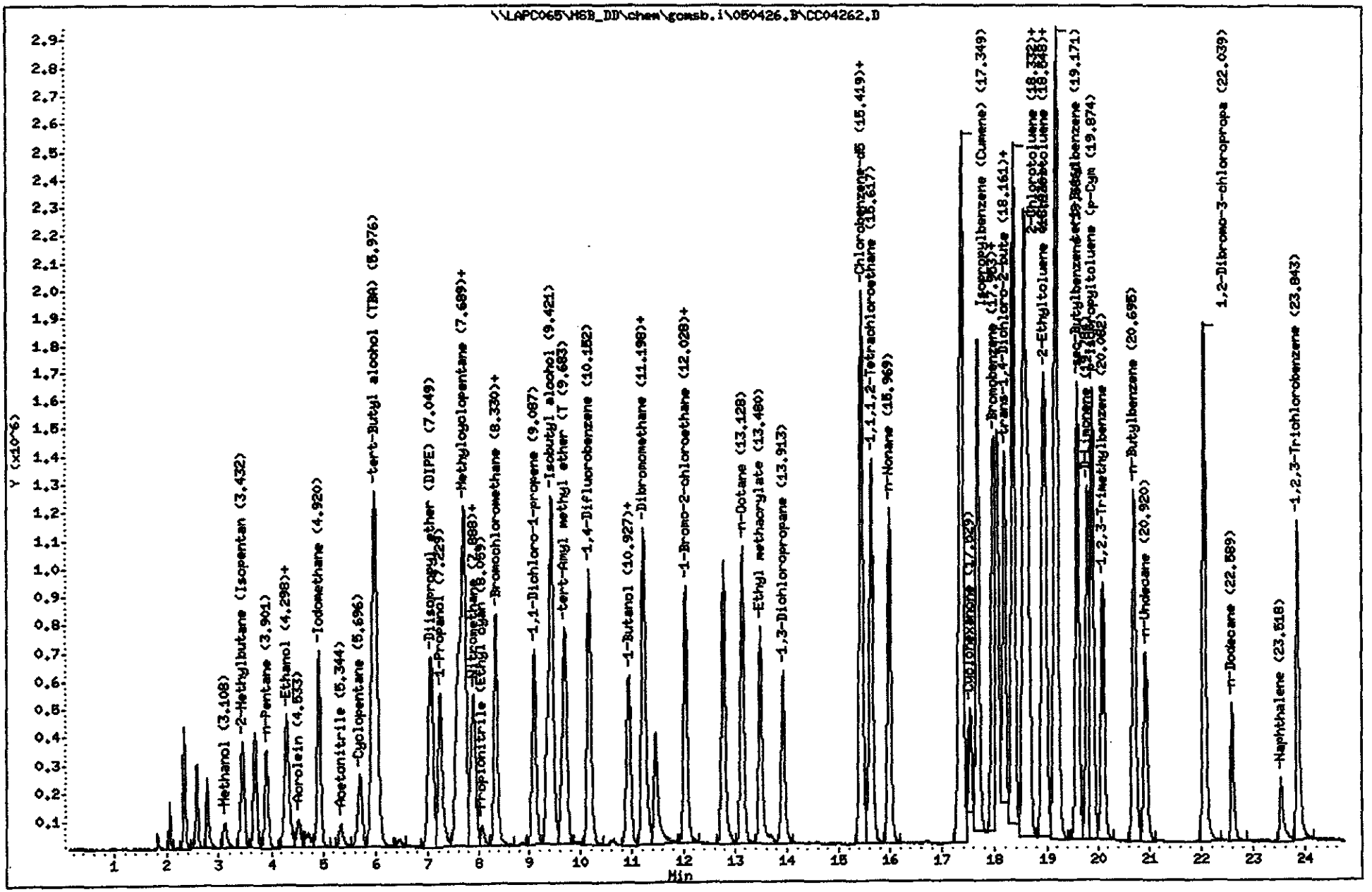
Sample Info: 50 PPBV,HSL0501515,, ADD-ONS STD

Column phase: J&W DB-624

Instrument: gcmsb.i

Operator: DLK

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D Page 5
Report Date: 26-Apr-2005 10:37

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcmsb.i Injection Date: 26-APR-2005 09:35
Lab File ID: CC04263.D Init. Cal. Date(s): 03-FEB-2005 22-APR-2005
Analysis Type: AIR Init. Cal. Times: 09:00 01:35
Lab Sample ID: 50 PPBV Quant Type: ISTD
Method: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
1 Propene	0.18598	0.19563	0.010	5.2	30.0
3 Dichlorodifluoromethane (F1	2.90013	2.63293	0.010	-9.2	30.0
5 1,2-Cl-1,1,2,2,F Ethane(F11	3.23630	2.92236	0.010	-9.7	30.0
8 Chloromethane	0.10899	0.10736	0.100	-1.5	30.0
9 Vinyl Chloride	0.50441	0.49409	0.010	-2.0	30.0
12 1,3-Butadiene	0.28710	0.29257	0.010	1.9	30.0
15 Bromomethane	0.82968	0.80671	0.010	-2.8	30.0
16 Chloroethane	0.33647	0.32069	0.010	-4.7	30.0
19 Vinyl Bromide	0.95300	0.97321	0.010	2.1	30.0
21 Trichlorofluoromethane (F11	3.23808	2.86289	0.010	-11.6	30.0
28 1,1-Dichloroethene	1.31155	1.26314	0.010	-3.7	30.0
30 1,1,2-CL 1,2,2-F ethane(F11	3.82507	3.50226	0.010	-8.4	30.0
31 Acetone	0.17315	0.20476	0.010	18.3	30.0
33 Carbon Disulfide	1.58892	1.73057	0.010	8.9	30.0
34 2-Propanol	0.56509	0.64785	0.010	14.6	30.0
36 Allyl Chloride	0.65447	0.70683	0.010	8.0	30.0
37 Methylene Chloride	0.74274	0.68846	0.010	-7.3	30.0
40 Acrylonitrile	0.24385	0.26815	0.010	10.0	30.0
41 trans-1,2-Dichloroethene	1.13782	1.23718	0.010	8.7	30.0
42 Methyl-tert-butyl ether(MTB	1.99347	2.12105	0.010	6.4	30.0
43 n-Hexane	0.73846	0.78253	0.010	6.0	30.0
44 1,1-Dichloroethane	1.53759	1.49966	0.100	-2.5	30.0
45 Vinyl Acetate	1.21565	1.49853	0.010	23.3	30.0
53 cis-1,2-Dichloroethene	0.96938	0.94886	0.010	-2.1	30.0
54 2-Butanone	0.28809	0.31311	0.010	8.7	30.0
56 Ethyl Acetate	1.40825	1.45551	0.010	3.4	30.0
59 Tetrahydrofuran	0.53705	0.57406	0.010	6.9	30.0
60 Chloroform	2.17244	2.05790	0.010	-5.3	30.0
61 1,1,1-Trichloroethane	2.31093	2.13545	0.010	-7.6	30.0
62 Cyclohexane	1.08245	1.11022	0.010	2.6	30.0
64 Carbon Tetrachloride	2.50666	2.34286	0.010	-6.5	30.0
$ 66 1,2-Dichloroethane-d4	0.30078	0.30199	0.010	0.4	30.0
68 Benzene	0.56511	0.56479	0.010	-0.1	30.0
69 1,2-Dichloroethane	0.33159	0.31282	0.010	-5.7	30.0
70 2,2,4-Trimethylpentane	1.12697	1.22197	0.010	8.4	30.0

4/26/05

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D
Report Date: 26-Apr-2005 10:37

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcmsb.i
Lab File ID: CC04263.D
Analysis Type: AIR
Lab Sample ID: 50 PPBV
Method: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m

Injection Date: 26-APR-2005 09:35
Init. Cal. Date(s): 03-FEB-2005 22-APR-2005
Init. Cal. Times: 09:00 01:35
Quant Type: ISTD

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	72 n-Heptane	0.34051	0.37788	0.010	11.0	30.0	
	75 Trichloroethene	0.49464	0.48043	0.010	-2.9	30.0	
	78 1,2-Dichloropropane	0.13925	0.13229	0.010	-5.0	30.0	
	81 1,4-Dioxane	0.14633	0.16798	0.010	14.8	30.0	
	82 Bromodichloromethane	0.46336	0.51261	0.010	10.6	30.0	
	85 cis-1,3-Dichloropropene	0.41084	0.45624	0.010	11.1	30.0	
	86 4-Methyl-2-Pentanone	0.17572	0.21863	0.010	24.4	30.0	
$	88 Toluene-d8	0.53684	0.54117	0.010	0.8	30.0	
	89 Toluene	0.77895	0.77968	0.010	0.1	30.0	
	91 trans-1,3-Dichloropropene	0.36909	0.40856	0.010	10.7	30.0	
	93 1,1,2-Trichloroethane	0.48598	0.47515	0.010	-2.2	30.0	
	95 Tetrachloroethene	0.89562	0.83846	0.010	-6.4	30.0	
	96 2-Hexanone	0.24572	0.29555	0.010	20.3	30.0	
	97 Dibromochloromethane	0.99453	1.10233	0.010	10.8	30.0	
	98 1,2-Dibromoethane	0.91895	0.94446	0.010	2.8	30.0	
	102 Chlorobenzene	0.93993	0.91380	0.300	-2.8	30.0	
M	99 Xylenes (total)	0.51231	0.54292	0.010	6.0	30.0	
	104 Ethylbenzene	1.27446	1.31517	0.010	3.2	30.0	
	105 m,p-Xylenes	0.51532	0.54955	0.010	6.6	30.0	
	107 o-Xylene	0.50628	0.52966	0.010	4.6	30.0	
	108 Styrene	0.70999	0.79590	0.010	12.1	30.0	
	110 Bromoform	0.97874	1.12070	0.100	14.5	30.0	
$	114 4-Bromofluorobenzene	0.97138	1.00771	0.010	3.7	30.0	
	116 1,1,2,2-Tetrachloroethane	1.10026	1.14545	0.300	4.1	30.0	
	123 4-Ethyl Toluene	1.15787	1.52384	0.010	31.6	30.0	<-
	124 1,3,5-Trimethylbenzene	1.18528	1.33166	0.010	12.3	30.0	
	131 1,2,4-Trimethylbenzene	0.41160	0.51466	0.010	25.0	30.0	
	134 1,3-Dichlorobenzene	0.95611	1.07632	0.010	12.6	30.0	
	136 1,4-Dichlorobenzene	1.00306	1.12833	0.010	12.5	30.0	
	138 Benzyl Chloride	0.91612	1.10631	0.010	20.8	30.0	
	140 1,2-Dichlorobenzene	0.93105	1.01910	0.010	9.5	30.0	
	144 1,2,4-Trichlorobenzene	0.44214	0.54442	0.010	23.1	30.0	
	145 Hexachlorobutadiene	0.78494	0.89939	0.010	14.6	30.0	

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D Page 1
Report Date: 26-Apr-2005 10:37

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D
Lab Smp Id: 50 PPBV Client Smp ID: MSL0501496
Inj Date : 26-APR-2005 09:35
Operator : DLK Inst ID: gcmsb.i
Smp Info : 50 PPBV,MSL0501496,, CCV STD
Misc Info : 1,1,125,125,2,,,TO14ALONG.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 26-Apr-2005 10:00 TARGET Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14ALONG.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	125.000	CalVol
SmpVol	125.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propene	41	2.050	2.050	(0.246)	121537	50.0000	52.59(Q)
3 Dichlorodifluoromethane (F12)	85	2.131	2.131	(0.256)	1635776	50.0000	45.39
5 1,2-Cl-1,1,2,2,F Ethane(F114)	135	2.366	2.366	(0.284)	1815590	50.0000	45.15
8 Chloromethane	52	2.402	2.402	(0.288)	66699	50.0000	49.25(Q)
9 Vinyl Chloride	62	2.600	2.600	(0.312)	306968	50.0000	48.98
12 1,3-Butadiene	39	2.673	2.673	(0.321)	363539	100.000	101.9
15 Bromomethane	94	3.133	3.133	(0.376)	501187	50.0000	48.62
16 Chloroethane	64	3.313	3.313	(0.397)	199237	50.0000	47.65
19 Vinyl Bromide	106	3.629	3.629	(0.435)	604629	50.0000	51.06(Q)
21 Trichlorofluoromethane (F11)	101	3.764	3.764	(0.452)	1778643	50.0000	44.21
28 1,1-Dichloroethene	61	4.702	4.702	(0.564)	784759	50.0000	48.15
30 1,1,2-CL 1,2,2-F ethane(F113)	101	4.747	4.747	(0.569)	2175871	50.0000	45.78(Q)
31 Acetone	58	4.846	4.846	(0.581)	127213	50.0000	59.13(Q)
33 Carbon Disulfide	76	5.054	5.054	(0.606)	1075159	50.0000	54.46

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D Page 2
Report Date: 26-Apr-2005 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	34 2-Propanol	45	5.216	5.216	(0.626)	402496	50.0000	57.32
	36 Allyl Chloride	41	5.387	5.387	(0.646)	439135	50.0000	54.00
	37 Methylene Chloride	49	5.604	5.604	(0.672)	427721	50.0000	46.34(Q)
	40 Acrylonitrile	53	6.100	6.100	(0.732)	166597	50.0000	54.98
	41 trans-1,2-Dichloroethene	61	6.118	6.118	(0.734)	768629	50.0000	54.37(Q)
	42 Methyl-tert-butyl ether[MTBE]	73	6.145	6.145	(0.737)	1317758	50.0000	53.20
	43 n-Hexane	41	6.650	6.650	(0.798)	486165	50.0000	52.98
	44 1,1-Dichloroethane	63	6.867	6.867	(0.824)	931702	50.0000	48.77
	45 Vinyl Acetate	43	7.047	7.047	(0.845)	931003	50.0000	61.64
	53 cis-1,2-Dichloroethene	96	7.922	7.922	(0.950)	589502	50.0000	48.94(Q)
	54 2-Butanone	72	7.994	7.994	(0.959)	194526	50.0000	54.34(Q)
	56 Ethyl Acetate	43	8.120	8.120	(0.974)	904275	50.0000	51.68
*	58 Bromochloromethane	49	8.337	8.337	(1.000)	621276	50.0000	
	59 Tetrahydrofuran	42	8.445	8.445	(1.013)	356649	50.0000	53.44(Q)
	60 Chloroform	83	8.508	8.508	(1.021)	1278522	50.0000	47.36
	61 1,1,1-Trichloroethane	97	8.806	8.806	(1.056)	1326702	50.0000	46.20
	62 Cyclohexane	84	8.896	8.896	(1.067)	689750	50.0000	51.28(Q)
	64 Carbon Tetrachloride	117	9.094	9.094	(1.091)	1455563	50.0000	46.73
$	66 1,2-Dichloroethane-d4	65	9.365	9.365	(0.921)	656139	50.0000	50.20
	68 Benzene	78	9.464	9.464	(0.931)	1227110	50.0000	49.97
	69 1,2-Dichloroethane	62	9.500	9.500	(0.934)	679664	50.0000	47.17
	70 2,2,4-Trimethylpentane	57	9.635	9.635	(0.948)	2654976	50.0000	54.21
	72 n-Heptane	43	9.978	9.978	(0.981)	821016	50.0000	55.49
*	73 1,4-Difluorobenzene	114	10.168	10.168	(1.000)	2172698	50.0000	
	75 Trichloroethene	130	10.609	10.609	(1.043)	1043826	50.0000	48.56(Q)
	78 1,2-Dichloropropane	76	10.988	10.988	(1.081)	287424	50.0000	47.50(Q)
	81 1,4-Dioxane	88	11.250	11.250	(1.106)	364966	50.0000	57.40
	82 Bromodichloromethane	85	11.493	11.493	(1.130)	1113752	50.0000	55.32
	85 cis-1,3-Dichloropropene	75	12.296	12.296	(1.209)	991281	50.0000	55.52
	86 4-Methyl-2-Pentanone	58	12.576	12.576	(1.237)	475019	50.0000	62.21
$	88 Toluene-d8	100	12.774	12.774	(1.256)	1175805	50.0000	50.40
	89 Toluene	91	12.882	12.882	(1.267)	1694001	50.0000	50.05
	91 trans-1,3-Dichloropropene	75	13.297	13.297	(0.863)	756569	50.0000	55.35
	93 1,1,2-Trichloroethane	97	13.613	13.613	(0.883)	879880	50.0000	48.89(Q)
	95 Tetrachloroethene	166	13.883	13.883	(0.901)	1552647	50.0000	46.81(Q)
	96 2-Hexanone	58	14.100	14.100	(0.915)	547284	50.0000	60.14(Q)
	97 Dibromochloromethane	129	14.343	14.343	(0.930)	2041268	50.0000	55.42
	98 1,2-Dibromoethane	107	14.542	14.542	(0.943)	1748934	50.0000	51.39
*	101 Chlorobenzene-d5	117	15.417	15.417	(1.000)	1851779	50.0000	
	102 Chlorobenzene	112	15.462	15.462	(1.003)	1692160	50.0000	48.61(Q)
M	99 Xylenes (total)	106				3016090	150.000	159.0
	104 Ethylbenzene	91	15.678	15.678	(1.017)	2435408	50.0000	51.60
	105 m,p-Xylenes	106	15.904	15.904	(1.032)	2035275	100.000	106.6
	107 o-Xylene	106	16.652	16.652	(1.080)	980814	50.0000	52.31(Q)
	108 Styrene	104	16.679	16.679	(1.082)	1473831	50.0000	56.05(Q)
	110 Bromoform	173	17.022	17.022	(1.104)	2075280	50.0000	57.25(Q)
$	114 4-Bromofluorobenzene	95	17.662	17.662	(1.146)	1866056	50.0000	51.87(Q)

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D Page 3
Report Date: 26-Apr-2005 10:37

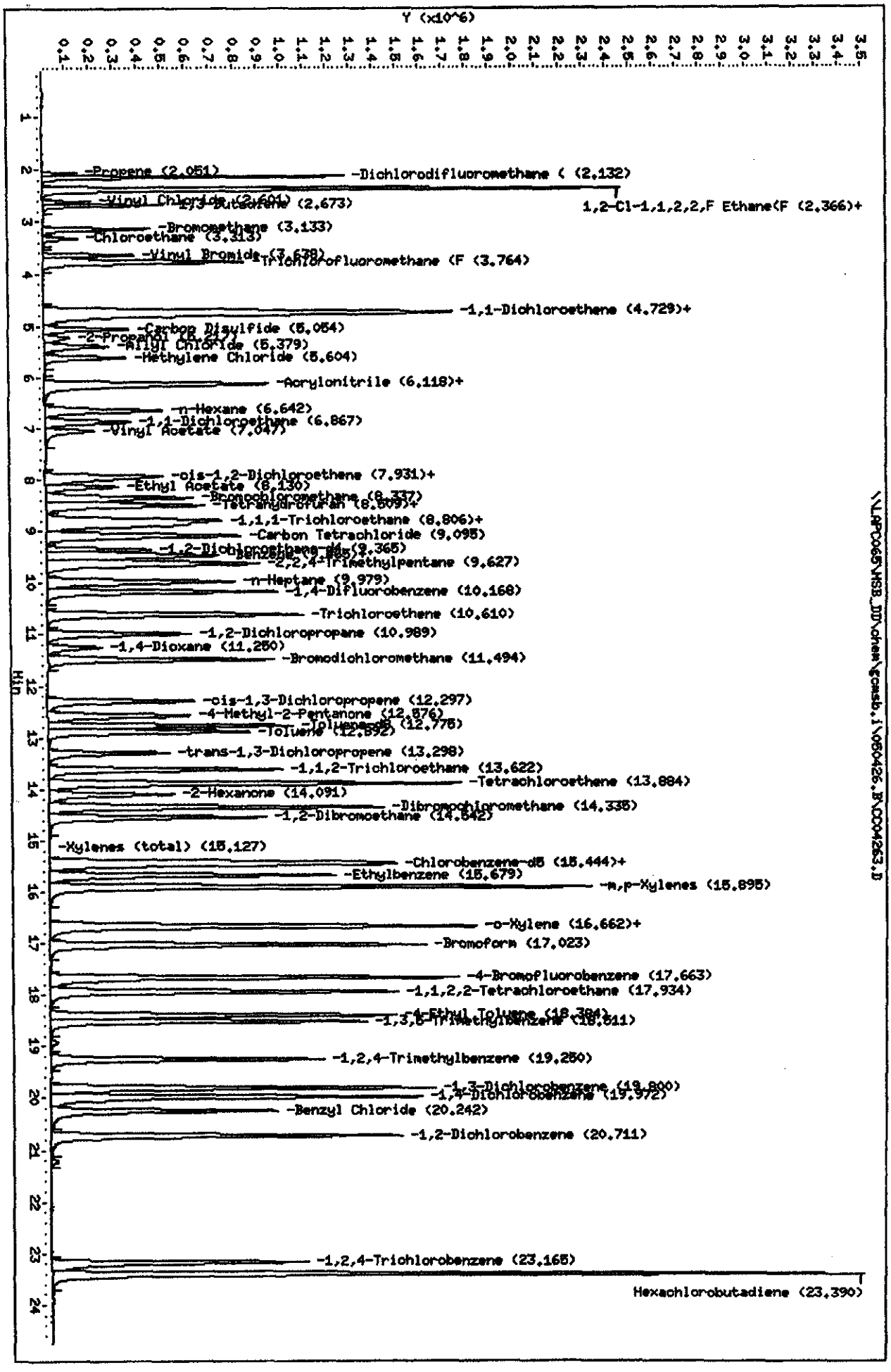
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
116 1,1,2,2-Tetrachloroethane	83	17.933	17.933	(1.163)	2121124	50.0000	52.05
123 4-Ethyl Toluene	105	18.393	18.393	(1.193)	2821824	50.0000	65.80
124 1,3,5-Trimethylbenzene	105	18.510	18.510	(1.201)	2465934	50.0000	56.17
131 1,2,4-Trimethylbenzene	120	19.250	19.250	(1.249)	953038	50.0000	62.52
134 1,3-Dichlorobenzene	146	19.800	19.800	(1.284)	1993098	50.0000	56.29
136 1,4-Dichlorobenzene	146	19.971	19.971	(1.295)	2089416	50.0000	56.24
138 Benzyl Chloride	91	20.242	20.242	(1.313)	2048644	50.0000	60.38
140 1,2-Dichlorobenzene	146	20.711	20.711	(1.343)	1887146	50.0000	54.73
144 1,2,4-Trichlorobenzene	180	23.164	23.164	(1.503)	1008150	50.0000	61.57
145 Hexachlorobutadiene	225	23.390	23.390	(1.517)	1665474	50.0000	57.29(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\CC04263.D
Date : 26-APR-2005 09:35
Client ID: HSL0501496
Sample Info: 50 PPBV,HSL0501496,, CCV STD
Column phase: J&W DB-624

Instrument: gcmsb.i
Operator: DLK
Column diameter: 0.53



Reduced By: ___ Date: 4/26/05
Reviewed By: ___ Date: 4-26-05

LCSD Report

QC Category: _____ QC Lot: _____

LCS SAMPLE
Data File : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B/LC04261.D
Samp Info : LCS,PSL9911359,,LCS
Inj Date : 26-APR-2005 10:10

LCSD SAMPLE
Data File : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B/LC04262.D
Samp Info : LCSD,PSL9911359,,LCSD
Inj Date : 26-APR-2005 10:39

	Concentration				%Recovery			RPD	
	Mass Spiked	Measured							
Spiked	(ug/m3)	LCS	LCSD	Avg.	Meas.	Min	Max	Meas.	Max
1,1-Dichloroethene									
50.5	199.83	51.0	51.6	51.3	101.5	70	125	1	20
Methylene Chloride									
54.5	188.95	53.7	54.5	54.1	99.2	75	120	1	20
Trichloroethene									
49.5	265.47	49.5	49.8	49.7	100.3	70	125	1	20
Toluene									
49.5	186.17	51.2	52.2	51.7	104.5	75	125	2	20
1,1,2,2-Tetrachloroethane									
50.0	342.55	50.1	50.5	50.3	100.6	65	130	1	20

100.0 Percent of recoveries are within control limits.
100.0 Percent of RPD values are within control limits.

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\LC04261.D
Lab Smp Id: LCS Client Smp ID: PSL9911359
Inj Date : 26-APR-2005 10:10
Operator : DLK Inst ID: gcmsb.i
Smp Info : LCS,PSL9911359,,LCS
Misc Info : 1,1,250,250,3,,LCS,SPK.sub,1,SH.SPK
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 26-Apr-2005 10:00 TARGET Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SPK.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	250.000	CalVol
SmpVol	250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
28 1,1-Dichloroethene	61	4.681	4.702	(0.562)	838356	50.9947	50.99
37 Methylene Chloride	49	5.582	5.604	(0.671)	500178	53.7239	53.72(Q)
* 58 Bromochloromethane	49	8.324	8.337	(1.000)	626741	50.0000	
$ 66 1,2-Dichloroethane-d4	65	9.343	9.365	(0.921)	620365	47.9306	47.93
* 73 1,4-Difluorobenzene	114	10.146	10.168	(1.000)	2151564	50.0000	
75 Trichloroethene	130	10.597	10.609	(1.044)	1052753	49.4601	49.46(Q)
$ 88 Toluene-d8	100	12.762	12.774	(1.258)	1167881	50.5557	50.56
89 Toluene	91	12.879	12.882	(1.269)	1716560	51.2115	51.21
* 101 Chlorobenzene-d5	117	15.413	15.417	(1.000)	1789549	50.0000	
$ 114 4-Bromofluorobenzene	95	17.668	17.662	(1.146)	1752742	50.4143	50.41(Q)
116 1,1,2,2-Tetrachloroethane	83	17.939	17.933	(1.164)	1972736	50.0956	50.10

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\HSB_DD\chem\gcmsb.i\050426.b\LC04261.D

Date : 26-APR-2005 10:10

Client ID: PSL9911359

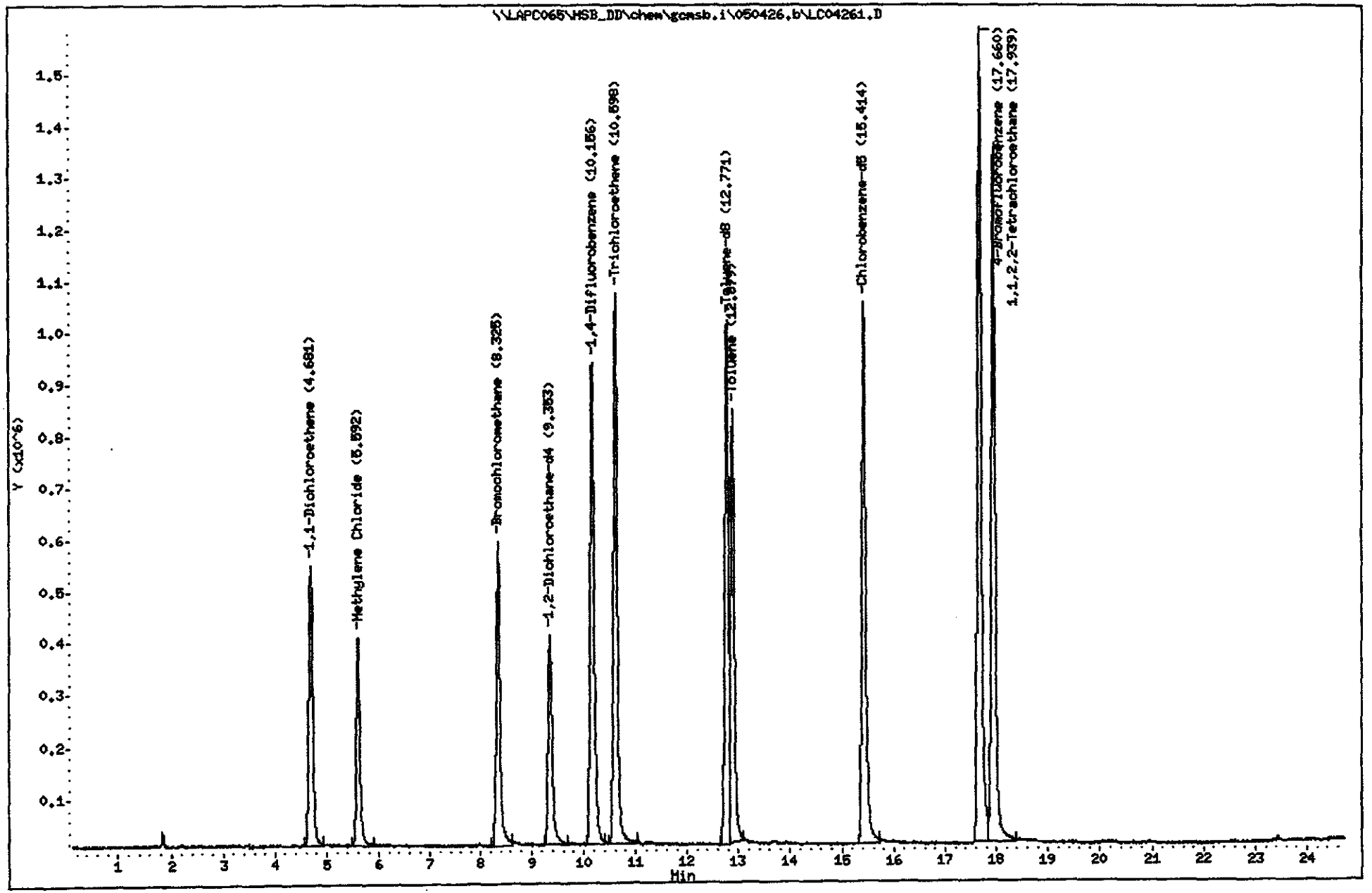
Sample Info: LCS,PSL9911359,,LCS

Column phase: J&W DB-624

Instrument: gcmsb.i

Operator: DLK

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\LC04262.D Page 1
Report Date: 26-Apr-2005 11:04

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\LC04262.D
Lab Smp Id: LCSD Client Smp ID: PSL9911359
Inj Date : 26-APR-2005 10:39
Operator : DLK Inst ID: gcmsb.i
Smp Info : LCSD,PSL9911359,,LCSD
Misc Info : 1,1,250,250,3,,LCSD,SPK.sub,1,SH.SPK
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 26-Apr-2005 10:46 TARGET Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SPK.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	250.000	CalVol
SmpVol	250.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
28 1,1-Dichloroethene	61	4.698	4.702	(0.564)	818196	51.5564	51.56
37 Methylene Chloride	49	5.600	5.604	(0.672)	489497	54.4685	54.46(Q)
* 58 Bromochloromethane	49	8.333	8.320	(1.000)	605006	50.0000	
$ 66 1,2-Dichloroethane-d4	65	9.361	9.365	(0.921)	605407	48.2536	48.25
* 73 1,4-Difluorobenzene	114	10.164	10.151	(1.000)	2085635	50.0000	
75 Trichloroethene	130	10.606	10.609	(1.043)	1028322	49.8396	49.84(Q)
$ 88 Toluene-d8	100	12.770	12.774	(1.256)	1138250	50.8306	50.83
89 Toluene	91	12.888	12.882	(1.268)	1696307	52.2070	52.21
* 101 Chlorobenzene-d5	117	15.422	15.409	(1.000)	1770695	50.0000	
$ 114 4-Bromofluorobenzene	95	17.659	17.662	(1.145)	1727932	50.2299	50.23(Q)
116 1,1,2,2-Tetrachloroethane	83	17.938	17.933	(1.163)	1969311	50.5412	50.54

QC Flag Legend

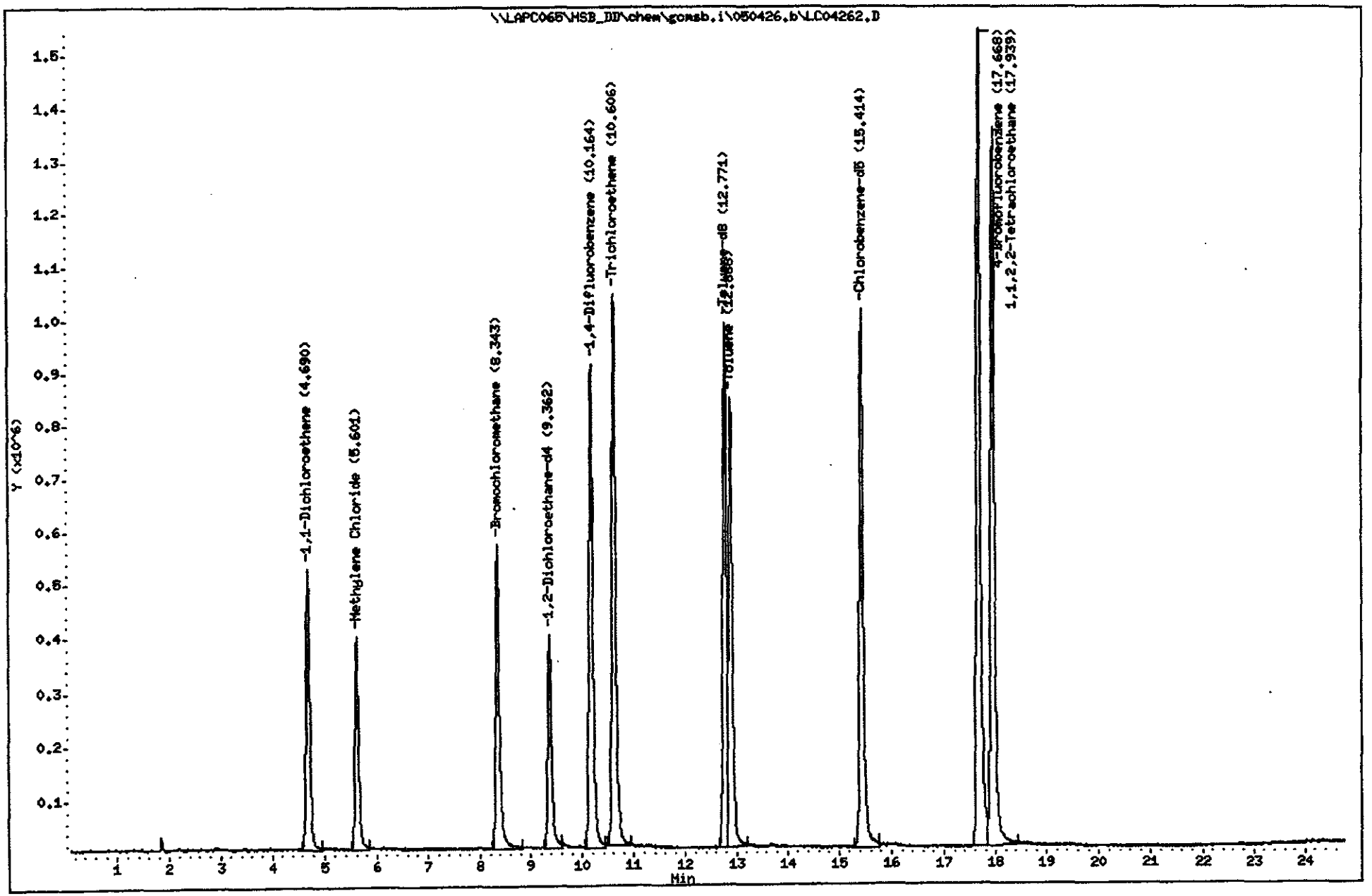
Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\LC04262.D
Date : 26-APR-2005 10:39
Client ID: PSL9911359
Sample Info: LCSD,PSL9911359,,LCSD

Instrument: gcmsb.i

Operator: DLK
Column diameter: 0.53

Column phase: J&W DB-624



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\MB04261.D Page 1
Report Date: 26-Apr-2005 11:41

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\MB04261.D
Lab Smp Id: BLANK Client Smp ID: 93164
Inj Date : 26-APR-2005 11:16
Operator : DLK Inst ID: gcmsb.i
Smp Info : BLANK,93164,,METHOD BLANK
Misc Info : 1,1,500,500,3,,BLANK,TO14AVANDEN.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 26-Apr-2005 11:28 target Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO14AVANDEN.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 58 Bromochloromethane	49	8.325	8.320	(1.000)	610880	50.0000	
$ 66 1,2-Dichloroethane-d4	65	9.344	9.365	(0.920)	592929	47.9525	47.95
71 tert-Amyl methyl ether (TAME)	73	10.156	9.682	(1.000)	21032	0.62809	0.6281(a)
* 73 1,4-Difluorobenzene	114	10.156	10.151	(1.000)	2055472	50.0000	
$ 88 Toluene-d8	100	12.772	12.774	(1.258)	1104606	50.0521	50.05
* 101 Chlorobenzene-d5	117	15.414	15.409	(1.000)	1768357	50.0000	
$ 114 4-Bromofluorobenzene	95	17.669	17.662	(1.146)	1775358	51.6768	51.68(Q)
118 trans-1,4-Dichloro-2-butene	88	17.985	18.061	(1.167)	1226	0.88024	0.8802(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\MB04261.D

Date : 26-APR-2005 11:16

Client ID: 93164

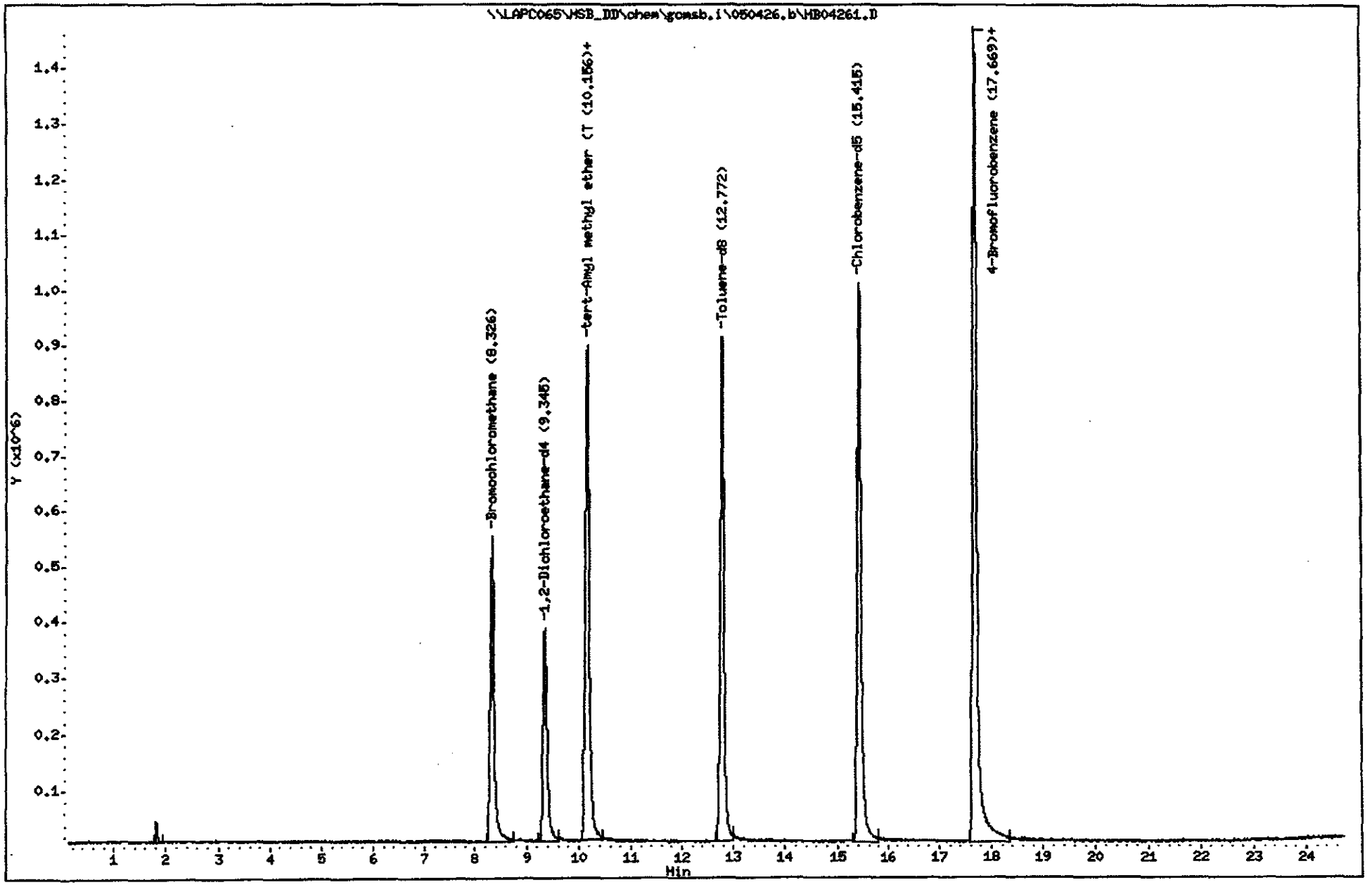
Sample Info: BLANK,93164,,METHOD BLANK

Column phase: J&W DB-624

Instrument: gcmsb.i

Operator: DLK

Column diameter: 0.53



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\MB04261.D

Date : 26-APR-2005 11:16

Client ID: 93164

Instrument: gcmsb.i

Sample Info: BLANK,93164,,METHOD BLANK

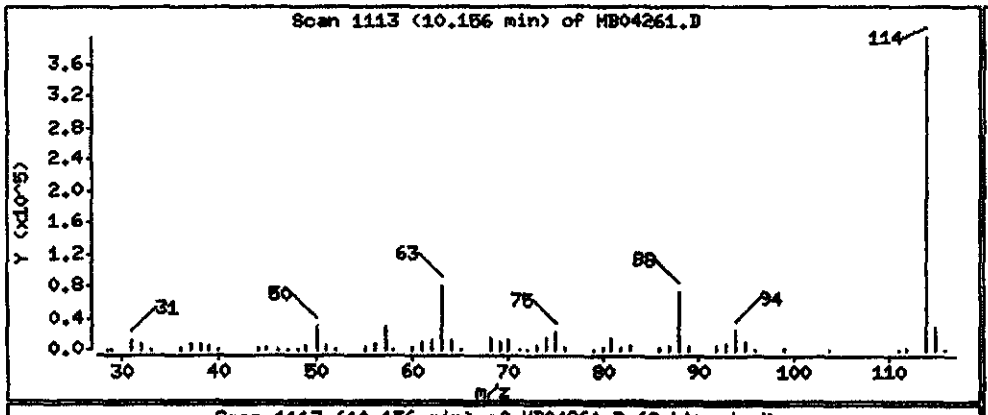
Operator: DLK

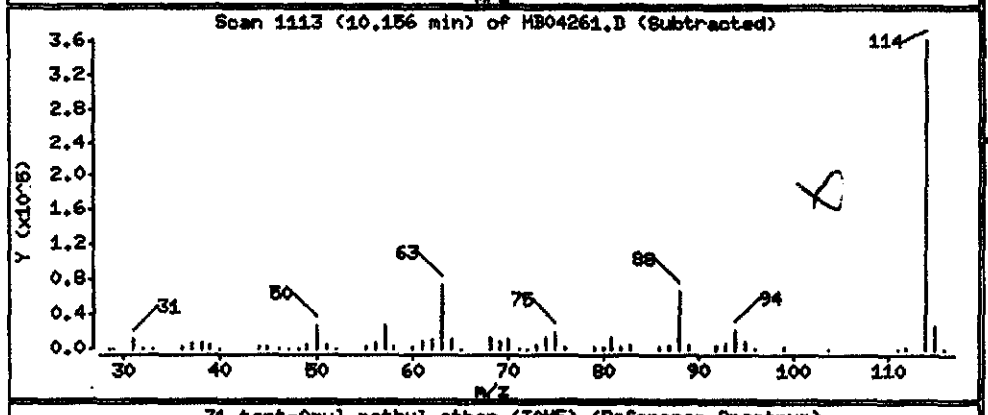
Column phase: J&W DB-624

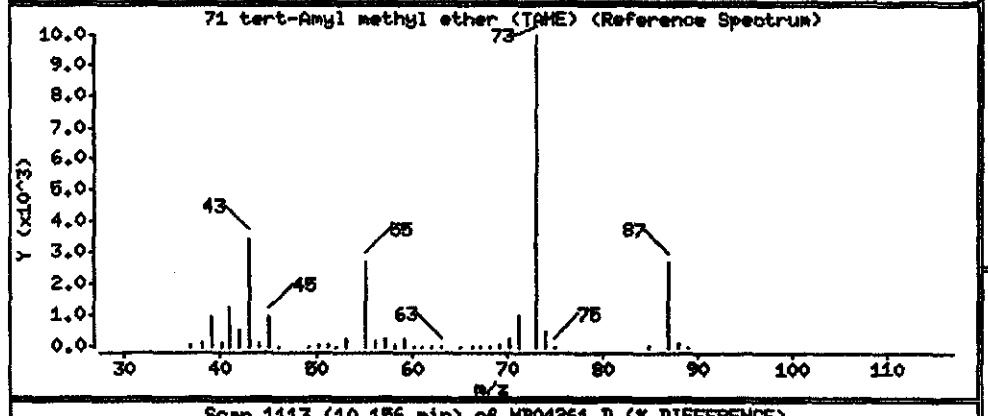
Column diameter: 0.53

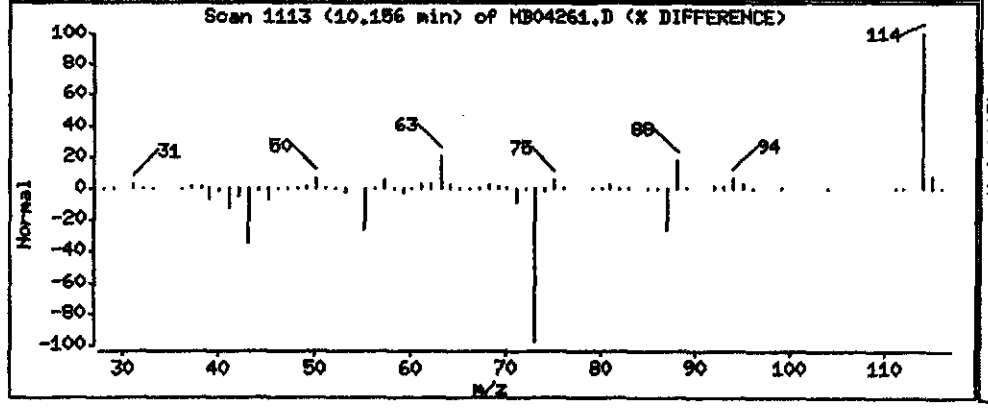
71 tert-Amyl methyl ether (TAME)

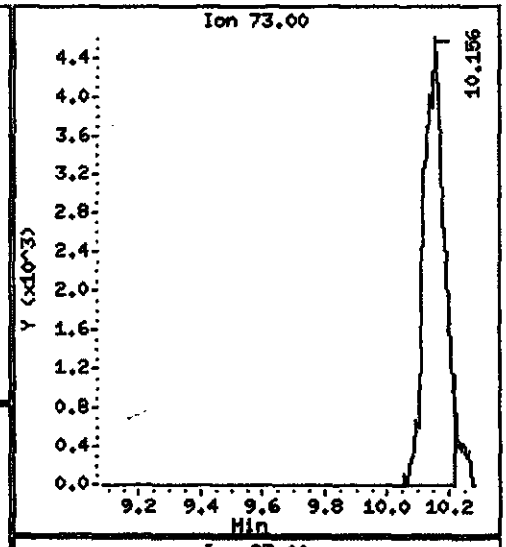
Concentration: 0.6281 ppbv

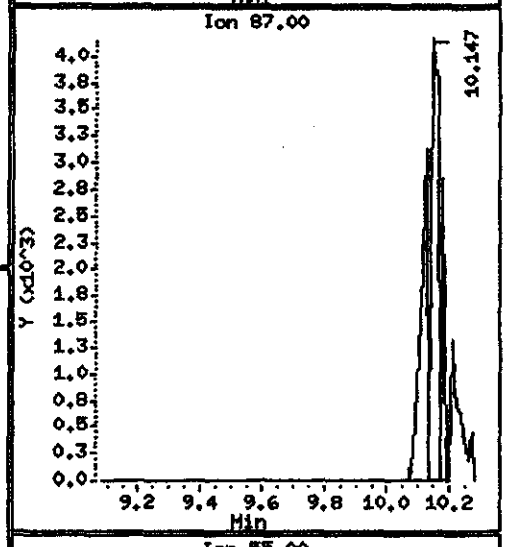


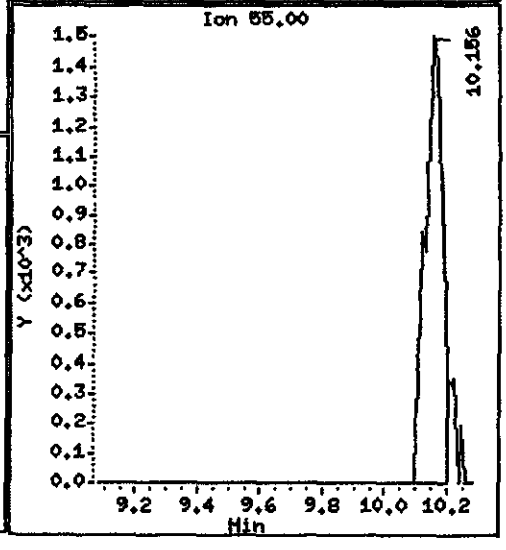












Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\MB04261.D

Date : 26-APR-2005 11:16

Client ID: 93164

Instrument: gcmsb.i

Sample Info: BLANK,93164,,METHOD BLANK

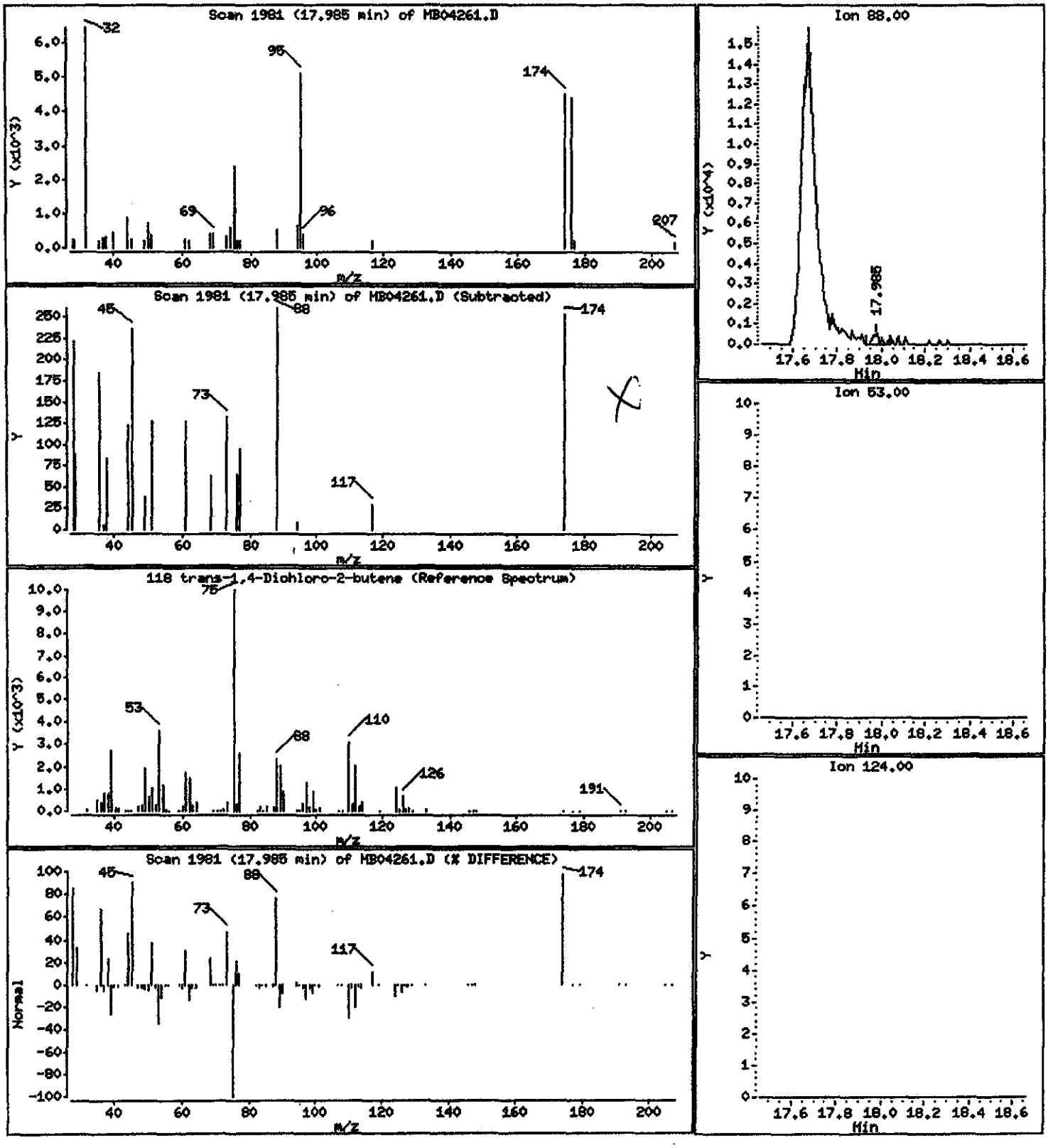
Operator: DLK

Column phase: J&W DB-624

Column diameter: 0.53

118 trans-1,4-Dichloro-2-butene

Concentration: 0.8802 ppbv



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D Page 1
Report Date: 26-Apr-2005 12:13

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D
Lab Smp Id: G803C1AC Client Smp ID: 1900N TANK
Inj Date : 26-APR-2005 11:44
Operator : DLK Inst ID: gcmsb.i
Smp Info : G803C1AC,1900N TANK,KNOX,H5D220226-1
Misc Info : 18.2,3.36,500,25,0,,,KNOX.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 26-Apr-2005 12:12 target Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: KNOX.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	18.200	FinalPres
InitPres	3.360	InitPres
CalVol	500.000	CalVol
SmpVol	25.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
25 Ether (Diethyl ether)	59	4.318	4.298	(0.518)	1360024	249.303	27010(Q)
* 58 Bromochloromethane	49	8.332	8.320	(1.000)	616425	50.0000	
$ 66 1,2-Dichloroethane-d4	65	9.351	9.365	(0.921)	617225	49.0163	5310
71 tert-Amyl methyl ether (TAME)	73	10.145	9.682	(0.999)	20805	0.61007	66.09(a)
* 73 1,4-Difluorobenzene	114	10.154	10.151	(1.000)	2093258	50.0000	
$ 88 Toluene-d8	100	12.769	12.774	(1.258)	1147778	51.0694	5532
* 101 Chlorobenzene-d5	117	15.412	15.409	(1.000)	1807817	50.0000	
$ 114 4-Bromofluorobenzene	95	17.667	17.662	(1.146)	1785560	50.8392	5508(Q)

QC Flag Legend

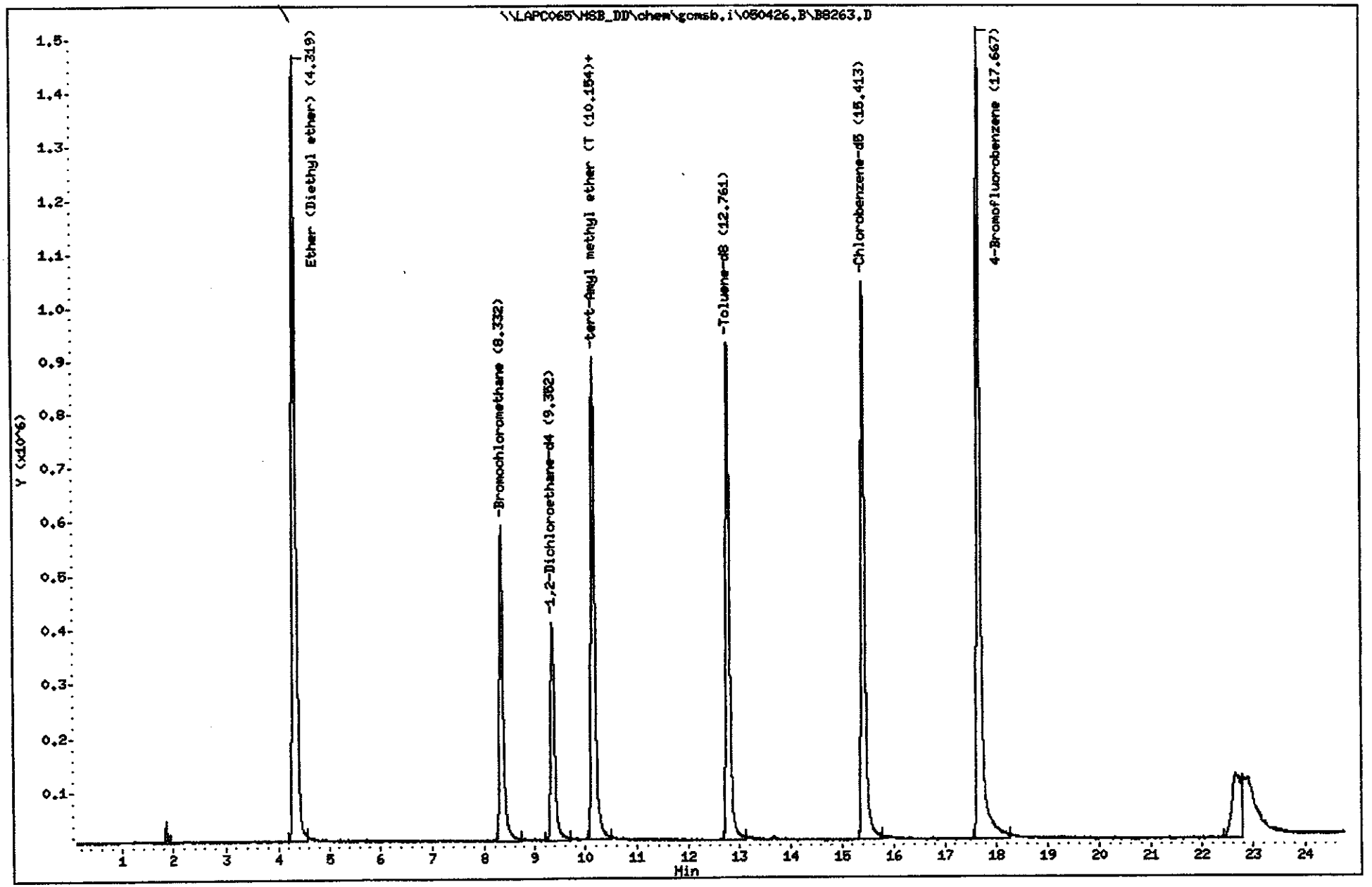
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D
Date : 26-APR-2005 11:44
Client ID: 1900N TANK
Sample Info: G803C1AC,1900N TANK,KNOX,H5D220226-1

Instrument: gcmsb.i

Operator: DLK
Column diameter: 0.53

Column phase: J&W DB-624



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D

Date : 26-APR-2005 11:44

Client ID: 1900N TANK

Instrument: gcmsb.i

Sample Info: G803C1AC,1900N TANK,KNOX,H5D220226-1

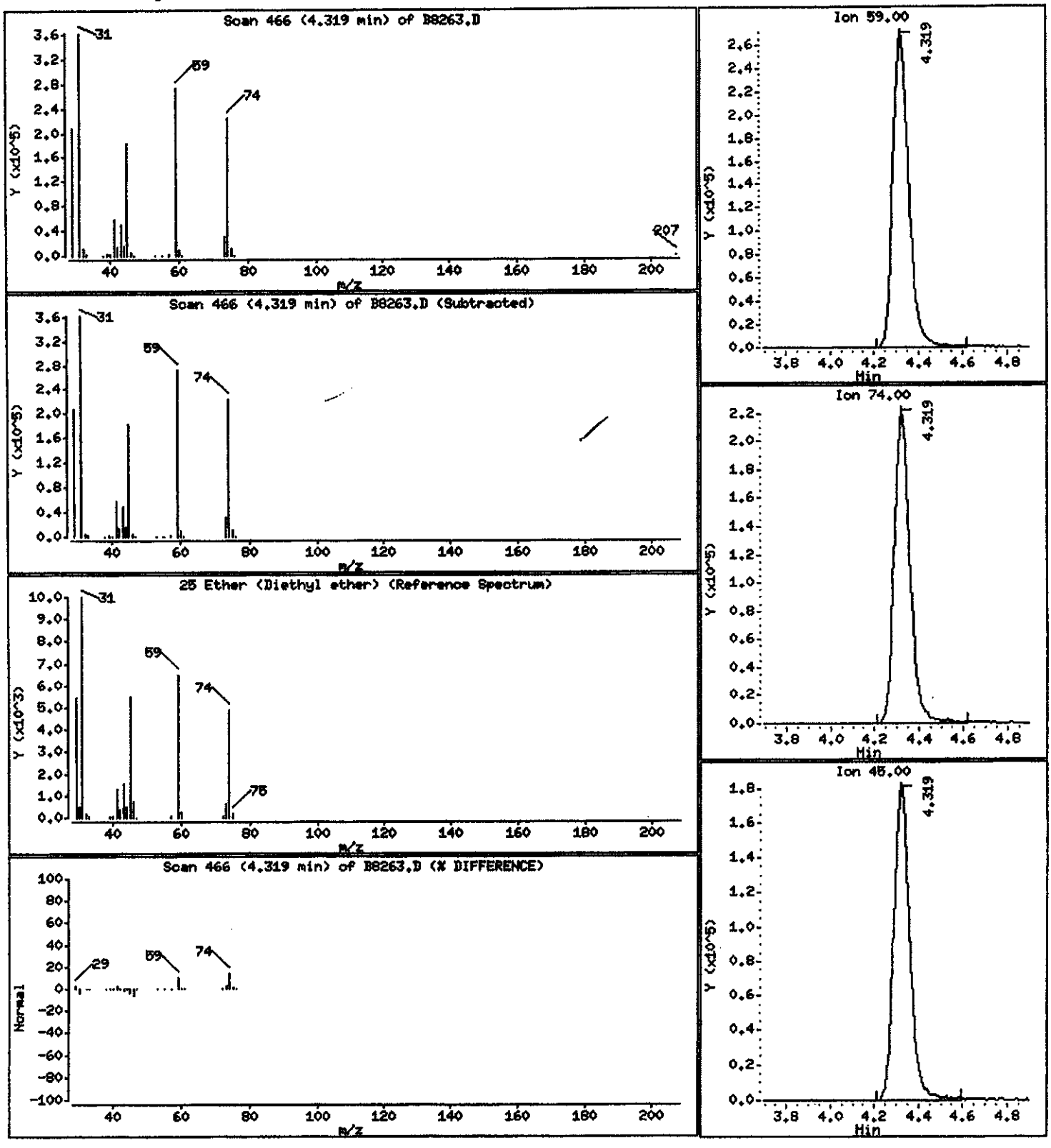
Operator: DLK

Column phase: J&W DB-624

Column diameter: 0.53

25 Ether (Diethyl ether)

Concentration: 27010 ppbv



Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D

Date : 26-APR-2005 11:44

Client ID: 1900N TANK

Instrument: gcmsb.i

Sample Info: G803C1AC,1900N TANK,KNOX,H5D220226-1

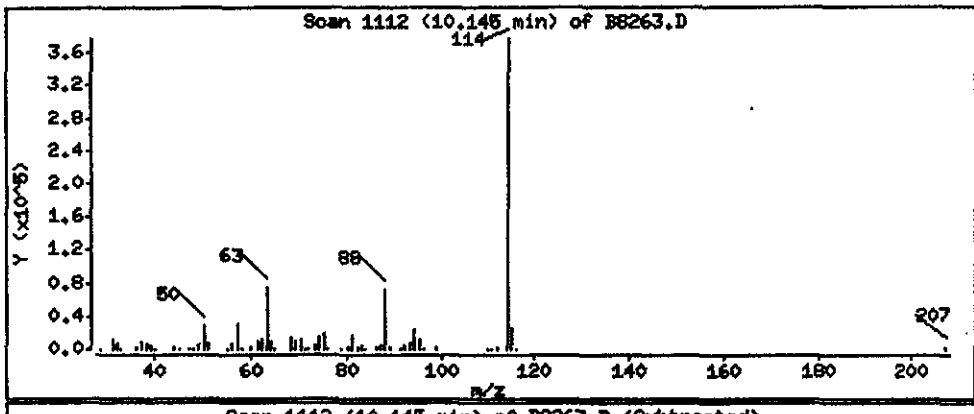
Operator: DLK

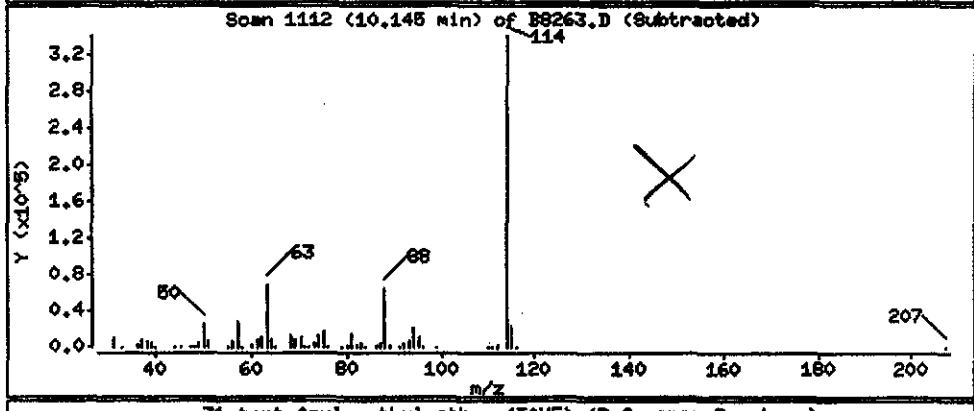
Column phase: J&W DB-624

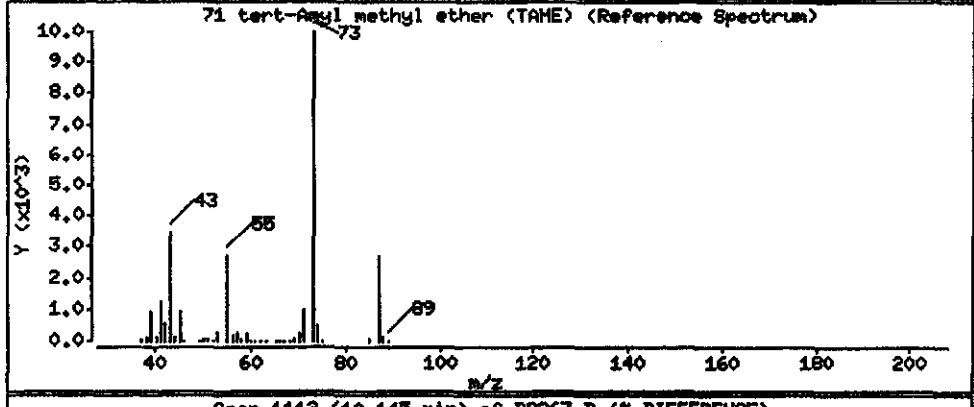
Column diameter: 0.53

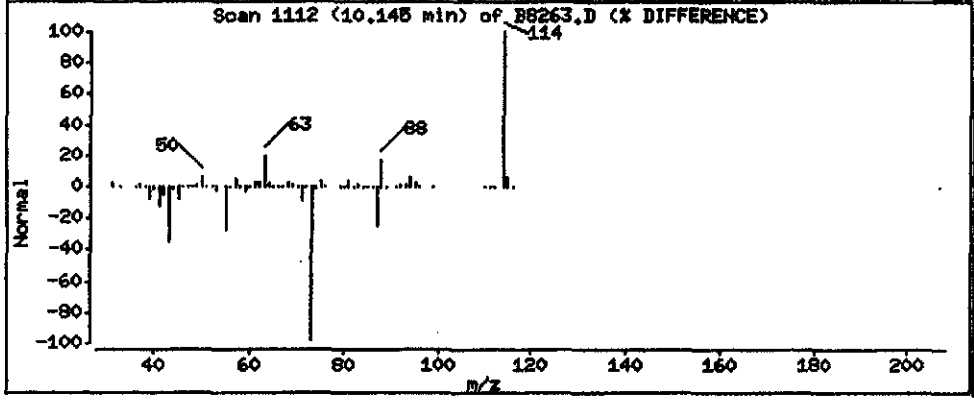
71 tert-Amyl methyl ether (TAME)

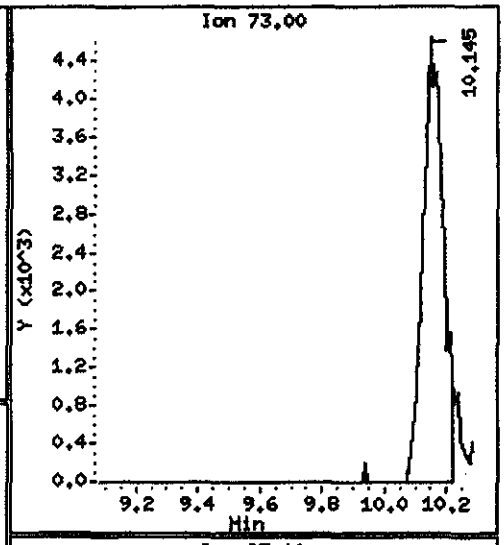
Concentration: 66.09 ppbv

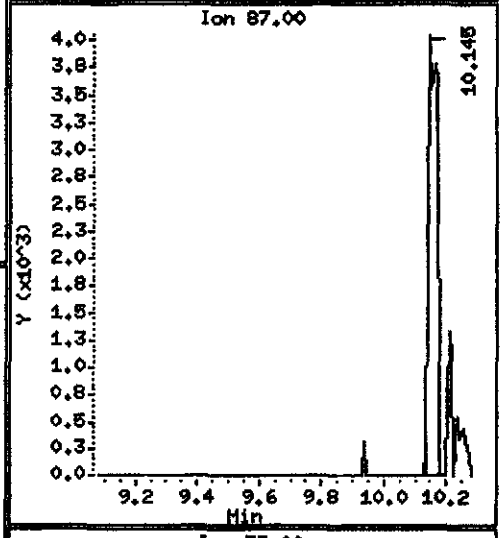


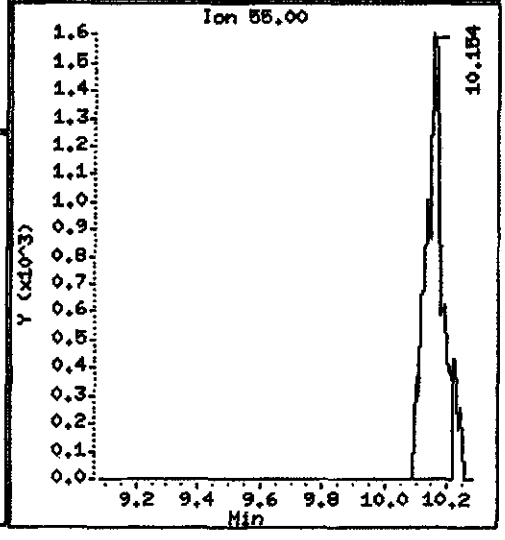












Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D Page 1
Report Date: 06-May-2005 12:10

STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D
Lab Smp Id: G803C1AC Client Smp ID: 1900N TANK
Inj Date : 26-APR-2005 11:44
Operator : DLK Inst ID: gcmsb.i
Smp Info : G803C1AC,1900N TANK,KNOX,H5D220226-1
Misc Info : 18.2,3.36,500,25,0,,,KNOX.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\050426.b\TO14A.m
Meth Date : 28-Apr-2005 14:20 almagroa Quant Type: ISTD
Cal Date : 22-APR-2005 00:21 Cal File: IC04215.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: KNOX.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	18.200	FinalPres
InitPres	3.360	InitPres
CalVol	500.000	CalVol
SmpVol	25.000	SmpVol

ISTD	RT	AREA	AMOUNT
* 101 Chlorobenzene-d5	15.413	5121678	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Dibutyl phthalate				CAS #: 84-74-2			
22.655	3525114	34.4136669	3728	72	NBS75K.L	72211	101(ML)

QC Flag Legend

M - Compound response manually integrated.
L - Operator selected an alternate library search match.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\050426.B\B8263.D

Date : 26-APR-2005 11:44

Client ID: 1900N TANK

Instrument: gcmsb.i

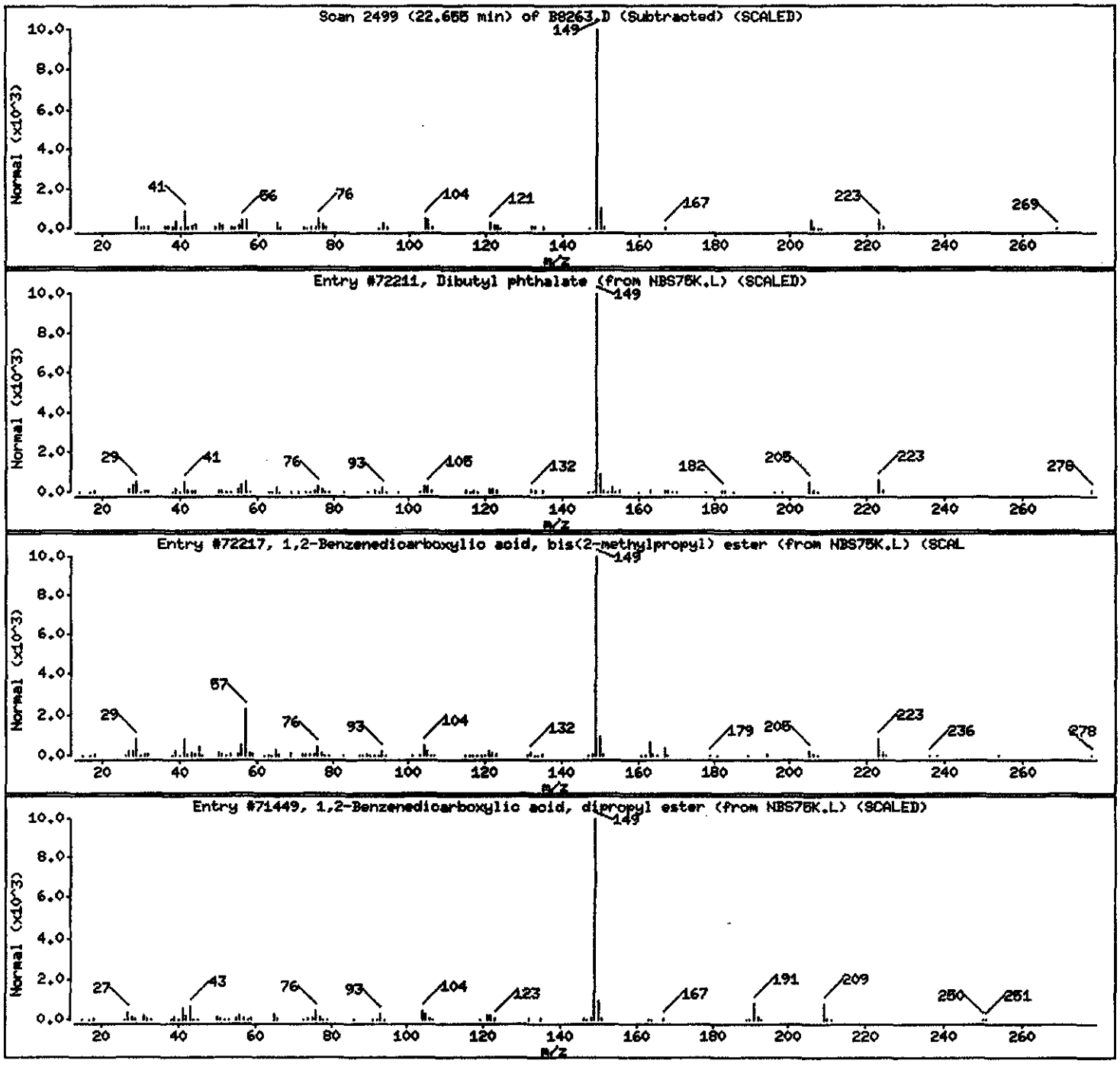
Sample Info: GB03C1AC,1900N TANK,KNOX,H5D220226-1

Operator: DLK

Column phase: J&W DB-624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dibutyl phthalate	84-74-2	NBS75K.L	72211	72	C16H2204	278
1,2-Benzenedicarboxylic acid, bis(2-meth	84-69-5	NBS75K.L	72217	78	C16H2204	278
1,2-Benzenedicarboxylic acid, dipropyl e	131-16-8	NBS75K.L	71449	72	C14H1804	250



SEVERN TRENT STL

END OF RAW DATA

Fixed Gases

Raw Sample Data

Bechtel Hanford, Inc.

Client Sample ID: J032Y3

GC Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AA **Matrix.....:** AIR
Date Sampled...: 04/21/05 **Date Received..:** 04/22/05
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 6.49 **Method.....:** ASTM D 1946/E 260

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	ND	0.65	%
Carbon monoxide	ND	0.65	%
Methane	ND	0.65	%
Oxygen	**22**	**0.65**	**%**

Software Version: 4.1<2F12>
Sample Name :
Sample Number: G803C1AA
Operator :

Time : 4/25/2005 03:19 PM
Study :

Instrument : GR
AutoSampler :
Rack/Vial : 0/0

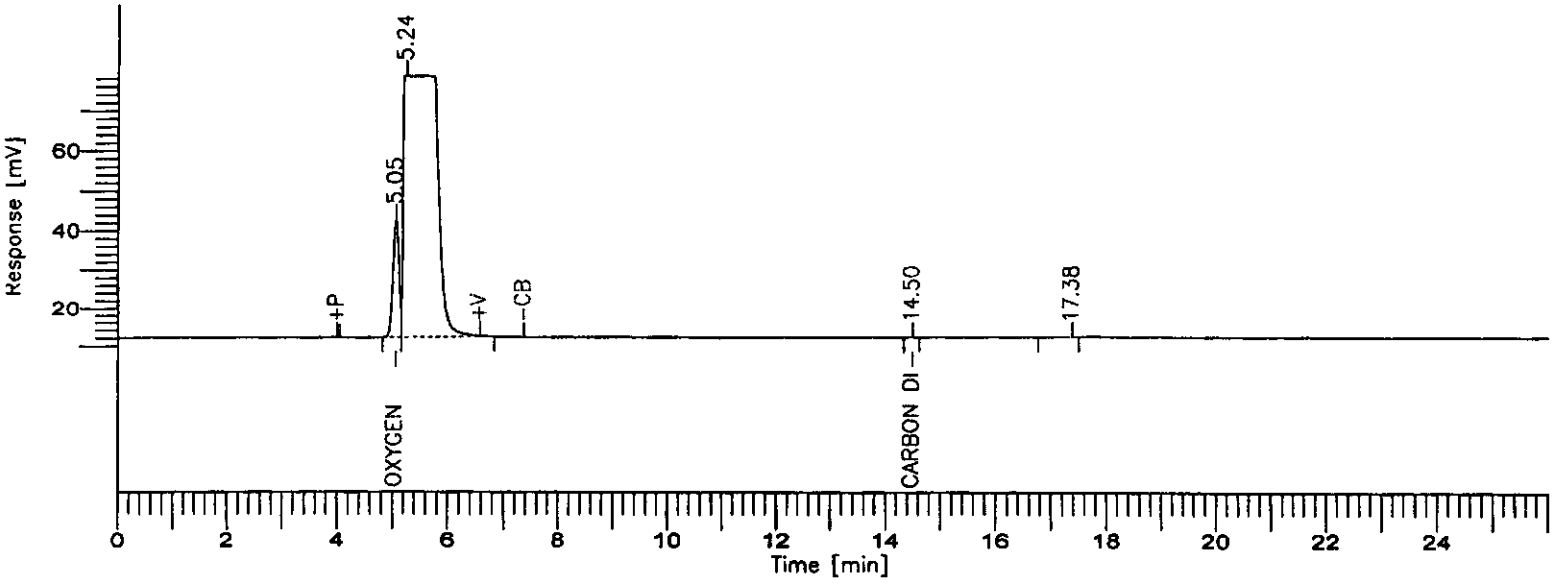
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/2005 02:32 PM
Delay Time : 0.00 min.
End Time : 26.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R003.RAW
Result File : O:\V3400R\D22R003.rst
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R003.rst
Proc Method : O:\V3400R\#GASINST.mth
Calib Method : O:\V3400R\D22RETH.mth
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 6.49



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	G R N G	Component Name
1	5.053	-3.22	240346	OXYGEN	30566	3.3806	6.490	21.9402		OXYGEN
0	5.725	-----	0	NITROGEN	0	0.0000	6.490	0.0000		NITROGEN
0	7.595	-----	0	CARBON MONOXIDE	0	0.0000	6.490	0.0000		CARBON MONOXIDE
0	11.980	-----	0	METHANE	0	0.0000	6.490	0.0000		METHANE
3	14.498	0.27	834	CARBON DIOXIDE	104	0.0089	6.490	0.0577		CARBON DIOXIDE
0	21.019	-----	0	ETHYLENE	0	0.0000	6.490	0.0000		ETHYLENE
0	24.383	-----	0	ETHANE	0	0.0000	6.490	0.0000		ETHANE

21.9979

Bechtel Hanford, Inc.

Client Sample ID: J032Y3 DUP

GC Volatiles

Lot-Sample #...: H5D220226-001 **Work Order #...:** G803C1AD **Matrix.....:** AIR
Date Sampled...: 04/21/05 **Date Received..:** 04/22/05
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 6.49 **Method.....:** ASTM D 1946/E 260

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	ND	0.65	%
Carbon monoxide	ND	0.65	%
Methane	ND	0.65	%
Oxygen	**22**	**0.65**	**%**

Software Version: 4.1<2F12>
Sample Name : DUP
Sample Number: G803C1AA
Operator :

Time : 4/25/2005 03:19 PM
Study :

Instrument : GR
AutoSampler :
Rack/Vial : 0/0

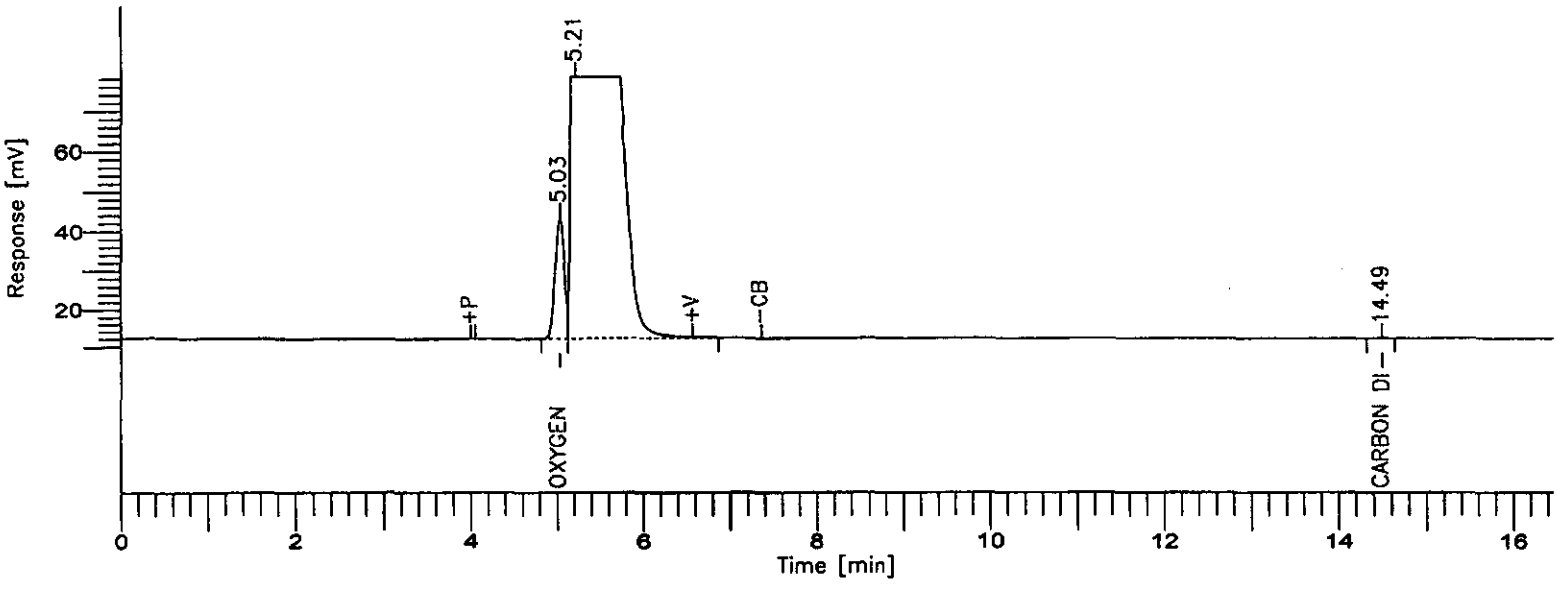
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/2005 04:26 PM
Delay Time : 0.00 min.
End Time : 16.47 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R004.RAW
Result File : O:\V3400R\D22R004.rst
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R004.rst
Proc Method : O:\V3400R\#GASINST.mth
Calib Method : O:\V3400R\D22RETH.mth
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 6.49



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	G R N G	Component Name
1	5.032	-3.63	237280	OXYGEN	31260	3.3375	6.490	21.6603		OXYGEN
0	5.725	-----	0	NITROGEN	0	0.0000	6.490	0.0000		NITROGEN
0	7.595	-----	0	CARBON MONOXIDE	0	0.0000	6.490	0.0000		CARBON MONOXIDE
0	11.980	-----	0	METHANE	0	0.0000	6.490	0.0000		METHANE
3	14.492	0.23	1094	CARBON DIOXIDE	134	0.0117	6.490	0.0756		CARBON DIOXIDE
0	21.019	-----	0	ETHYLENE	0	0.0000	6.490	0.0000		ETHYLENE
0	24.383	-----	0	ETHANE	0	0.0000	6.490	0.0000		ETHANE

21.7359

Standards Data

Analyst - [illegible]

GC ANALYSIS LOG FOR GR

I29RE.SEQ

Inj. Date	Inj. Time	File Name			
9/29/200	02:20	i29r001.rst	CERT 1892	Ethylene	RT STUDY/SS
9/29/200	02:55	i29r002.rst	CERT 1891	Ethane	RT STUDY/SS
9/29/200	03:40	i29r003.rst	CERT 1893	ICAl 1	10UL
9/29/200	04:14	i29r004.rst	cert 1893	ICAl 2	500ul
9/29/200	04:46	i29r005.rst	cert 1893	ICAl 3	2000ul
9/30/200	10:12	i29r006.rst	cert 1666	second source	500 ul
9/30/200	10:54	i29r007.rst	cert 1893	ccv	500ul
9/30/200	11:29	i29r008.rst	MDL		MDL 1
9/30/200	12:00	i29r009.rst	MDL		MDL 2
9/30/200	12:32	i29r010.rst	MDL		MDL 3
9/30/200	01:03	i29r011.rst	MDL		MDL 4
9/30/200	01:34	i29r012.rst	MDL		MDL 5
9/30/200	02:05	i29r013.rst	MDL		MDL 6
9/30/200	02:39	i29r014.rst	MDL		MDL 7
9/30/200	03:28	i29r015.rst			BLANK
9/30/200	04:03	i29r016.rst	cert 1893	ccv	500ul
10/1/200	07:40	i29r017.rst	cert 1893	ccv	500ul
10/1/200	08:12	i29r018.rst	BLANK		INST. BLK
10/1/200	09:12	i29r019.rst	GPPG3		4274130
10/1/200	09:44	i29r020.rst	GPPGR		4274130
10/1/200	10:13	i29r021.rst	GPPGR DUP		4274130
10/1/200	12:21	i29r022.rst	GPPG5		4274130
10/1/200	12:52	i29r023.rst	GPPHA		4274130
10/1/200	01:23	i29r024.rst	GPPHC		4274130
10/1/200	01:54	i29r025.rst	GPPHE		4274130
10/1/200	02:25	i29r026.rst	GPPHG		4274130
10/1/200	03:18	i29r027.rst	cert 1893	ccv	500ul
10/4/200	07:37	i29r028.rst	cert 1893	ccv	500ul
10/4/200	08:07	i29r029.rst	GPPHK		4274130
10/4/200	09:57	i29r030.rst	BLANK		
10/4/200	10:28	i29r031.rst	GPPHL		4274130
10/4/200	10:59	i29r032.rst	GPPHP		4274130
10/4/200	12:42	i29r033.rst	GPPHQ		4274130
10/4/200	01:18	i29r034.rst	GPPHQ	2x DIL	4274130
10/4/200	01:49	i29r035.rst	GPPHR		4274130
10/4/200	02:20	i29r036.rst	GPPHT		4274130
10/4/200	02:54	i29r037.rst	GPPHV	R/R 2X	4274130
10/4/200	03:25	i29r038.rst	GPPH1		4274130
10/4/200	03:57	i29r039.rst	cert 1893	ccv	500ul
10/5/200	07:09	i29r040.rst	cert 1893	ccv	500ul
10/5/200	09:17	i29r041.rst	BLANK		
10/5/200	10:06	i29r042.rst	GPPH3		4274130
10/5/200	10:38	i29r043.rst	GPPG8		4274130
10/5/200	12:13	i29r044.rst	GPPHV	R/R 2X	4274130
10/5/200	12:50	i29r045.rst	cert 1893	ccv	500ul

ICAL

Turbochrom Method File : O:\V3400R\I29RETH.MTH
Created by : SEG on : 9/29/04 14:29
Edited by : Analyst on : 9/30/04 09:37
Description :

Number of Times Edited : 20
Number of Times Calibrated : 53

10uL, 500uL, and 2000uL sample loops used. L 9/30/04

Global Information :

Default Sample Volume : 1.000 uL
Quantitation Units : %
Void Time : 0.000 min
Correct amounts during calibration : NO
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component

Ocld mop 10/6/04

Component Information :

OXYGEN
Component Type : Single Peak Component
Retention Time : 5.184 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0800	5378.29	491.74	----------	----------	1
2	4.0000	285128.90	26526.47	----------	----------	1
3	16.0000	1196407.78	103624.95	----------	----------	1

Average Calibration Factor = 71095.430041 (%RSD = 5.31)

NITROGEN
Component Type : Single Peak Component
Retention Time : 5.685 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	7585.71	644.25	----------	----------	1
2	5.0000	389465.10	31139.80	----------	----------	1
3	20.0000	1620301.22	109551.74	----------	----------	1

Average Calibration Factor = 78255.072634 (%RSD = 3.32)

CARBON MONOXIDE

Component Type : Single Peak Component
Retention Time : 7.573 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	7619.50	658.98	----------	----------	1
2	5.0000	389730.00	32212.44	----------	----------	1
3	20.0000	1634635.00	117811.00	----------	----------	1

Average Calibration Factor = 78624.250000 (%RSD = 3.60)

METHANE

Component Type : Single Peak Component
Retention Time : 12.012 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 4.000000
Value 2: 4.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0800	5142.50	580.23	----------	----------	1
2	4.0000	258347.00	28330.28	----------	----------	1
3	16.0000	1082130.00	108165.62	----------	----------	1

Average Calibration Factor = 65500.375000 (%RSD = 2.83)

CARBON DIOXIDE

Component Type : Single Peak Component
Retention Time : 14.464 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000

Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	9366.50	1125.63	----------	----------	1
2	5.0000	459814.00	53729.87	----------	----------	1
3	20.0000	1918786.50	197739.52	----------	----------	1

Average Calibration Factor = 93855.708333 (%RSD = 2.13)

ETHYLENE

Component Type : Single Peak Component
Retention Time : 20.793 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 0.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	6323.50	363.89	----------	----------	1
2	5.0000	375972.50	19567.19	----------	----------	1
3	20.0000	1670960.50	76230.38	----------	----------	1

Average Calibration Factor = 73992.508333 (%RSD = 13.80)

ETHANE

Component Type : Single Peak Component
Retention Time : 24.036 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 0.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	7739.00	336.37	----------	----------	1
2	5.0000	469694.50	17833.15	----------	----------	1
3	20.0000	1951703.50	66072.48	----------	----------	1

Average Calibration Factor = 89638.025000 (%RSD = 12.01)

Software Version: 4.1<2F12>
Sample Name : 10UL <Sample Loop>
Sample Number: CERT 1893
Operator : Analyst

Time : 10/5/2004 02:19 PM
Study : ICAl 1

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

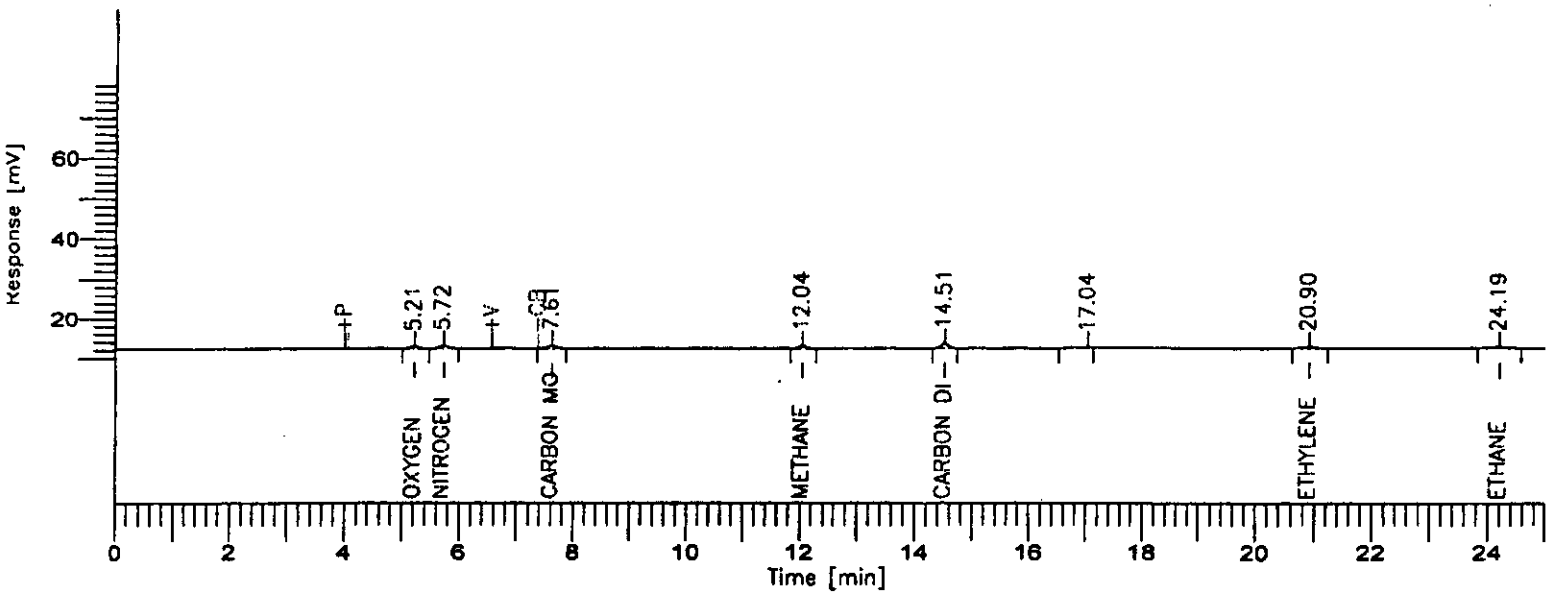
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/29/2004 03:40 PM
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R003.RAW
Result File : O:\V3400R\i29r003.rst
Inst Method : O:\V3400R\#EINST from O:\V3400R\i29r003.rst
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



eak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	Component Name
1	5.206	0.44	5378	OXYGEN	492	0.0756	1.000	0.0756		OXYGEN
2	5.717	0.56	7586	NITROGEN	644	0.0969	1.000	0.0969		NITROGEN
3	7.609	0.48	7620	CARBON MONOXIDE	659	0.0969	1.000	0.0969		CARBON MONOXIDE
4	12.043	0.26	5142	METHANE	580	0.0785	1.000	0.0785		METHANE
5	14.508	0.30	9366	CARBON DIOXIDE	1126	0.0998	1.000	0.0998		CARBON DIOXIDE
7	20.902	0.52	6324	ETHYLENE	364	0.0855	1.000	0.0855		ETHYLENE
8	24.188	0.63	7739	ETHANE	336	0.0863	1.000	0.0863		ETHANE
								0.6196		

Software Version: 4.1<2F12>
Sample Name : 500ul <Sample Loop>
Sample Number: cert 1893
Operator : Analyst

Time : 10/5/2004 02:19 PM
Study : ICAl 2

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

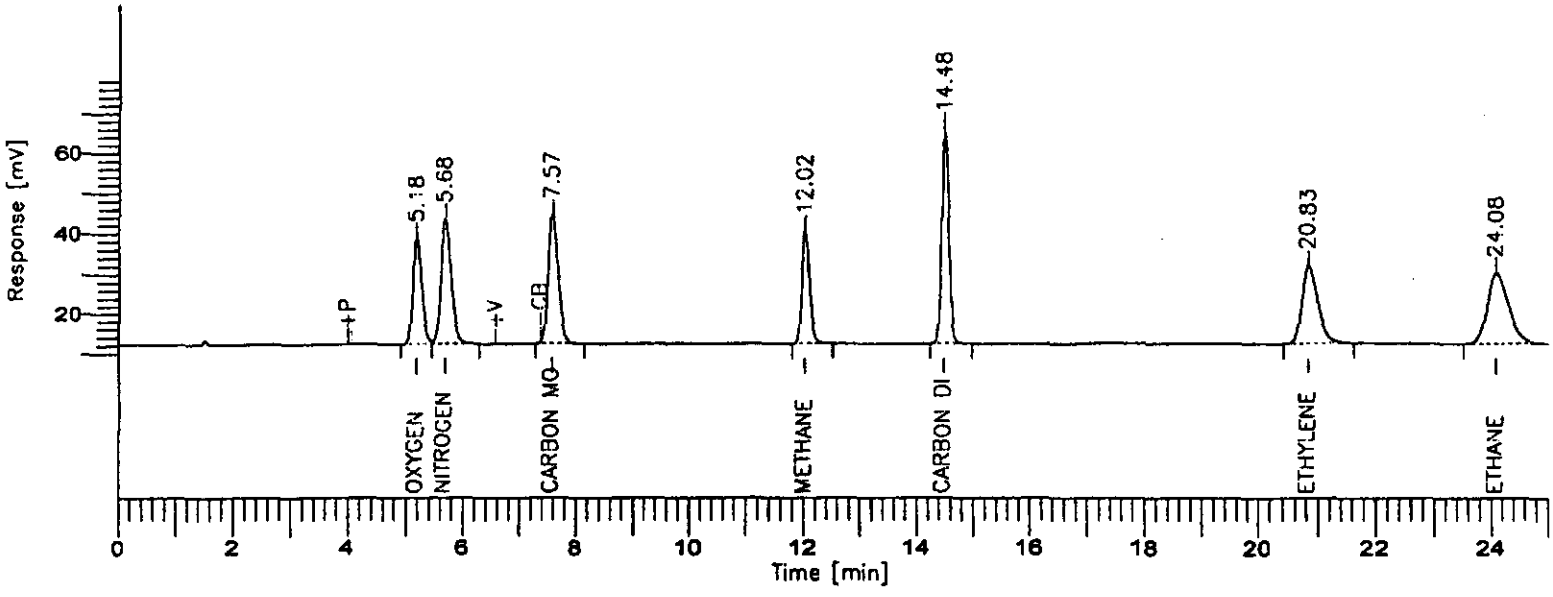
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/29/2004 04:14 PM
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R004.RAW
Result File : O:\V3400R\i29r004.rst
Inst Method : O:\V3400R\#EINST from O:\V3400R\i29r004.rst
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	G	Component Name
1	5.178	-0.11	285129	OXYGEN	26526	4.0105	1.000	4.0105			OXYGEN
2	5.679	-0.11	389465	NITROGEN	31140	4.9769	1.000	4.9769			NITROGEN
3	7.571	-0.02	389730	CARBON MONOXIDE	32212	4.9569	1.000	4.9569			CARBON MONOXIDE
4	12.020	0.06	258347	METHANE	28330	3.9442	1.000	3.9442			METHANE
5	14.477	0.08	459814	CARBON DIOXIDE	53730	4.8992	1.000	4.8992			CARBON DIOXIDE
6	20.828	0.17	375972	ETHYLENE	19567	5.0812	1.000	5.0812			ETHYLENE
7	24.081	0.18	469694	ETHANE	17833	5.2399	1.000	5.2399			ETHANE
								33.1087			

Software Version: 4.1<2F12>
Sample Name : 2000ul < Sample Loop >
Sample Number: cert 1893
Operator : Analyst

Time : 10/5/2004 02:19 PM
Study : ICAl 3

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

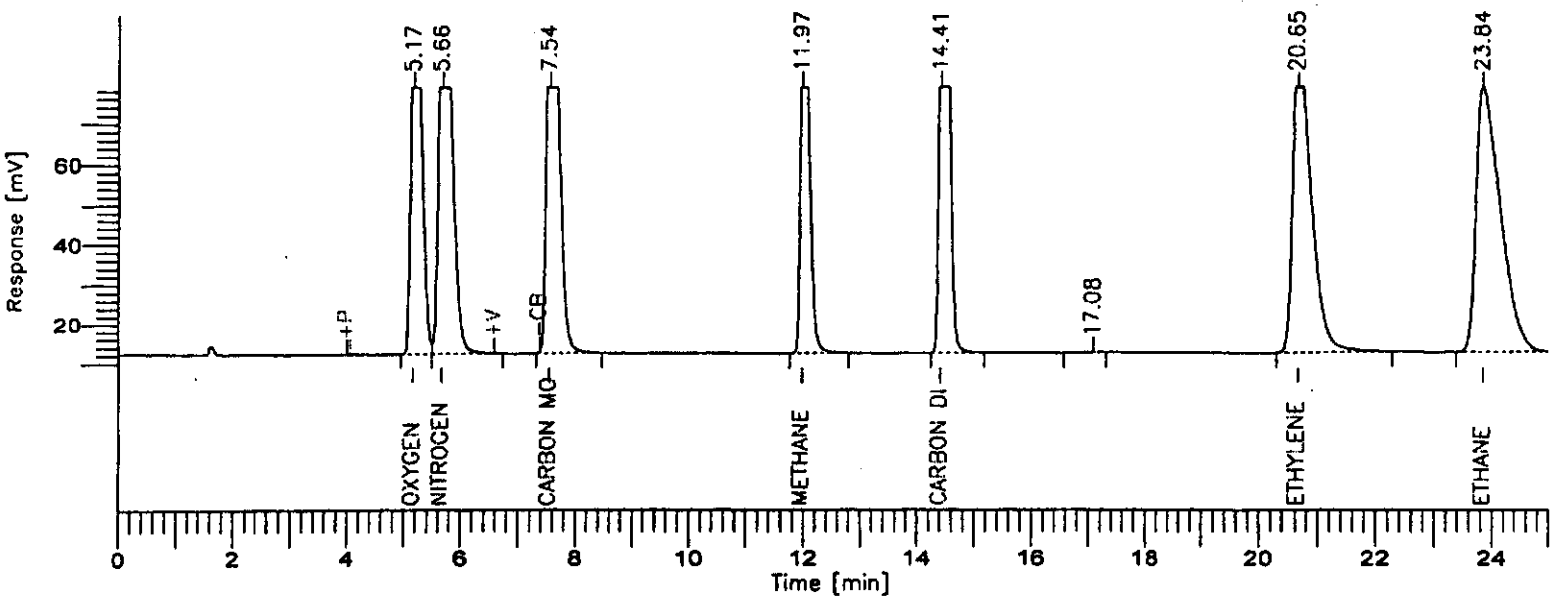
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/29/2004 04:46 PM
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R005.RAW
Result File : O:\V3400R\i29r005.rst
Inst Method : O:\V3400R\#EINST from O:\V3400R\i29r005.rst
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	Component Name
1	5.167	-0.33	1196408	OXYGEN	103625	16.8282	1.000	16.8282		OXYGEN
2	5.660	-0.45	1620301	NITROGEN	109552	20.7054	1.000	20.7054		NITROGEN
3	7.538	-0.46	1634635	CARBON MONOXIDE	117811	20.7905	1.000	20.7905		CARBON MONOXIDE
4	11.973	-0.32	1082130	METHANE	108166	16.5210	1.000	16.5210		METHANE
5	14.409	-0.38	1918786	CARBON DIOXIDE	197740	20.4440	1.000	20.4440		CARBON DIOXIDE
7	20.650	-0.69	1670960	ETHYLENE	76230	22.5828	1.000	22.5828		ETHYLENE
8	23.841	-0.81	1951704	ETHANE	66072	21.7732	1.000	21.7732		ETHANE

139.6450

Software Version: 4.1<2F12>
Sample Name : RT STUDY/SS
Sample Number: CERT 1892
Operator : Analyst

Time : 10/5/2004 02:19 PM
Study : Ethylene

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

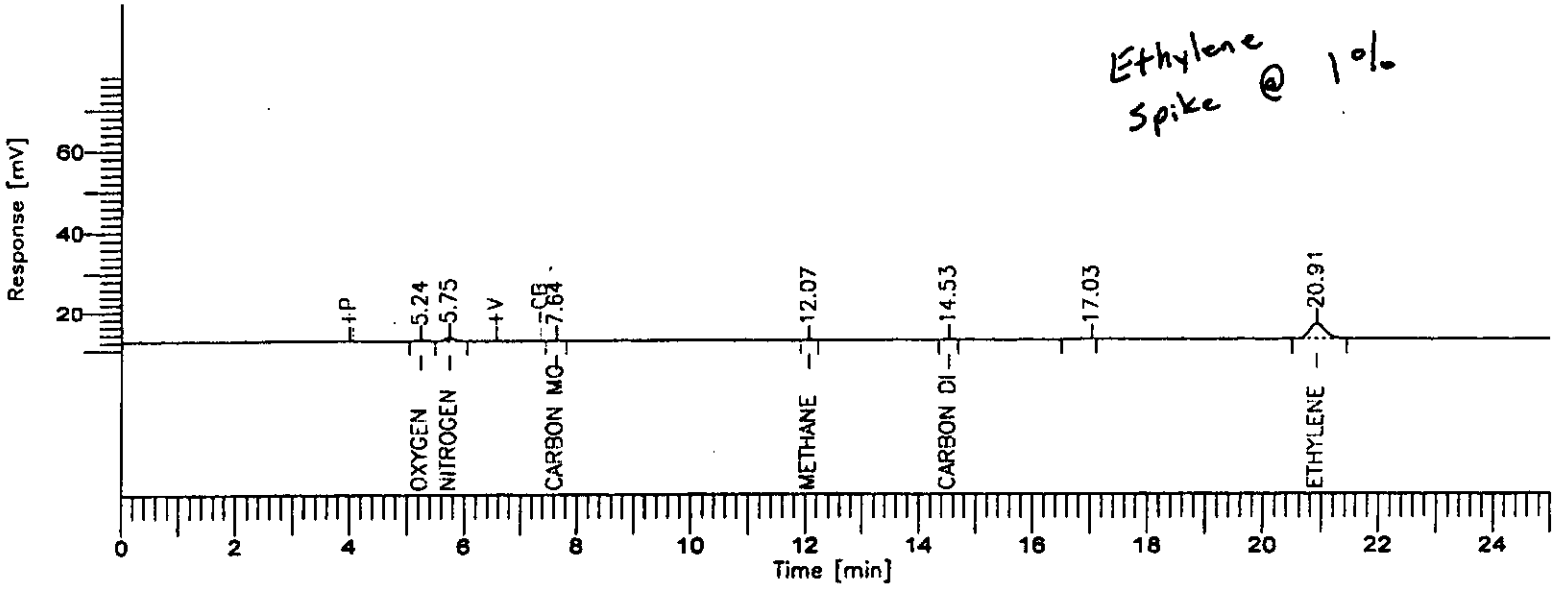
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/29/2004 02:20 PM
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R001.RAW
Result File : O:\V3400R\i29r001.rst
Inst Method : O:\V3400R\#EINST from O:\V3400R\i29r001.rst
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	Component Name
1	5.242	1.13	3016	OXYGEN	276	0.0424	1.000	0.0424		OXYGEN
2	5.749	1.12	10201	NITROGEN	852	0.1304	1.000	0.1304		NITROGEN
3	7.638	0.86	1280	CARBON MONOXIDE	121	0.0163	1.000	0.0163		CARBON MONOXIDE
4	12.065	0.44	921	METHANE	111	0.0141	1.000	0.0141		METHANE
5	14.526	0.43	2177	CARBON DIOXIDE	268	0.0232	1.000	0.0232		CARBON DIOXIDE
7	20.912	0.57	73453	ETHYLENE	3936	0.9927	1.000	0.9927		ETHYLENE
0	24.036	-----	0	ETHANE	0	0.0000	1.000	0.0000		ETHANE
								1.2190		

Software Version: 4.1<2F12>
Sample Name : RT STUDY/SS
Sample Number: CERT 1891
Operator : Analyst

Time : 10/5/2004 02:19 PM
Study : Ethane

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

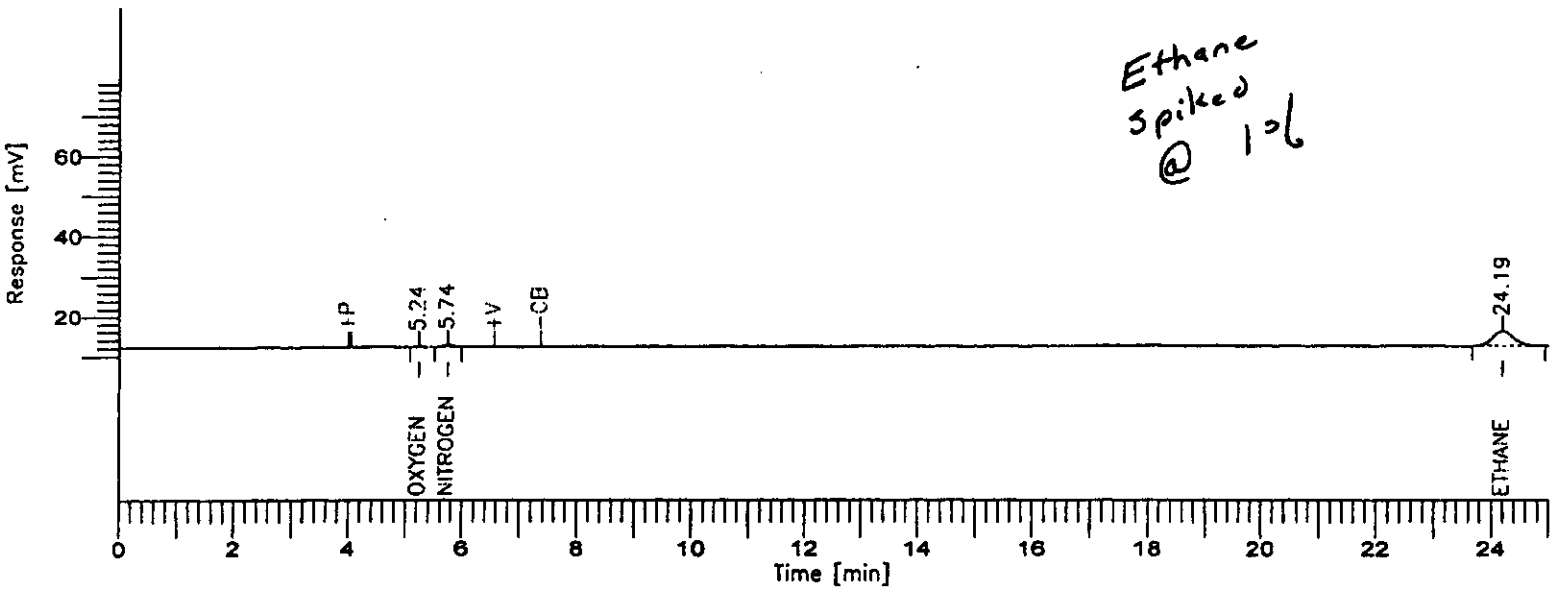
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/29/2004 02:55 PM
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R002.RAW
Result File : O:\V3400R\i29r002.rst
Inst Method : O:\V3400R\#EINST from O:\V3400R\i29r002.rst
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Delta RT %	Area [µV-s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	G	Component Name
1	5.237	1.04	980	OXYGEN	91	0.0138	1.000	0.0138			OXYGEN
2	5.743	1.00	4479	NITROGEN	381	0.0572	1.000	0.0572			NITROGEN
0	7.573	-----	0	CARBON MONOXIDE	0	0.0000	1.000	0.0000			CARBON MONOXIDE
0	12.012	-----	0	METHANE	0	0.0000	1.000	0.0000			METHANE
0	14.464	-----	0	CARBON DIOXIDE	0	0.0000	1.000	0.0000			CARBON DIOXIDE
0	20.793	-----	0	ETHYLENE	0	0.0000	1.000	0.0000			ETHYLENE
3	24.192	0.65	96114	ETHANE	3694	1.0722	1.000	1.0722			ETHANE
								1.1433			

Software Version: 4.1<2F12>
Sample Name : 500 ul
Sample Number: cert 1666
Operator : Analyst

Time : 9/30/04 10:56
Study : second source

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

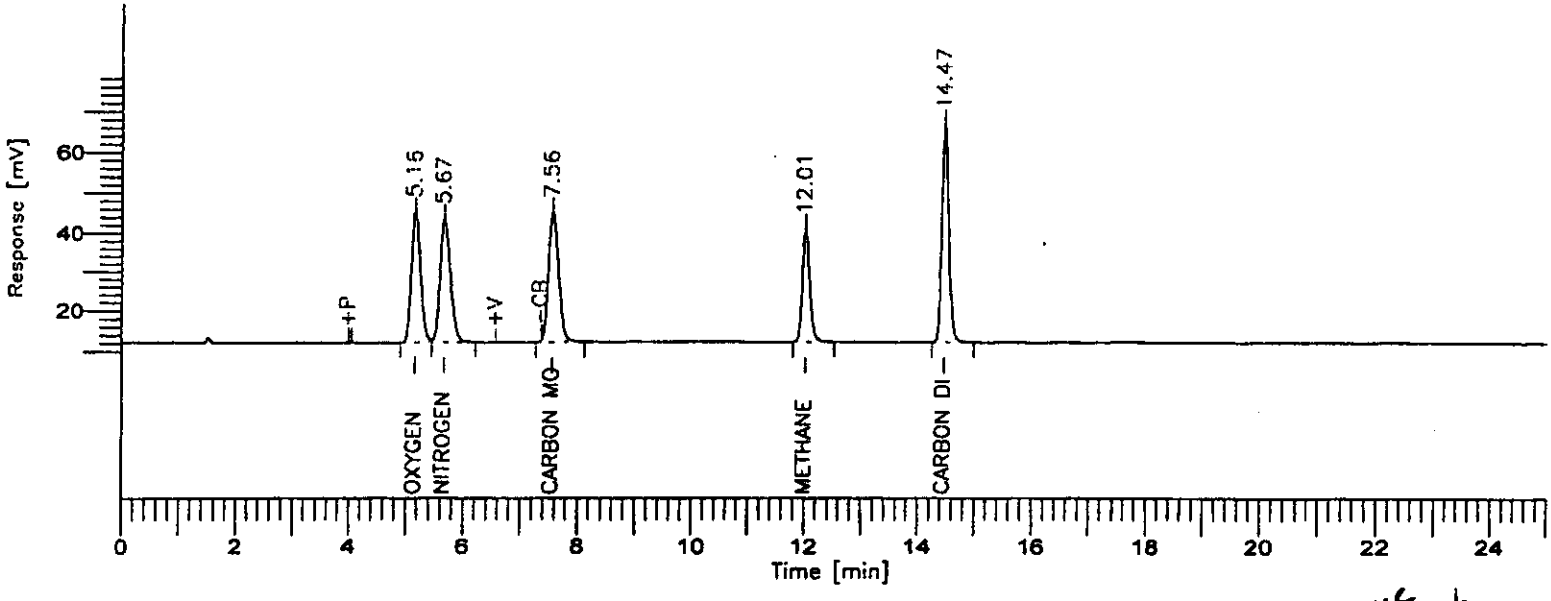
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/30/04 10:12
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R006.RAW
Result File : O:\V3400R\I29R006.RST
Inst Method : O:\V3400R\#EINST from O:\V3400R\I29R006.RST
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Spike (%)	Amt. (%)	% Diff.	Component Name
1	5.162	357098	OXYGEN	33017	5.0228	5.000	5.023	0.5	OXYGEN
2	5.672	391880	NITROGEN	31260	5.0077	5.000	5.008	0.2	NITROGEN
3	7.563	397045	CARBON MONOXIDE	32781	5.0499	5.000	5.050	1.0	CARBON MONOXIDE
4	12.013	262020	METHANE	28748	4.0003	4.000	4.000	7e-03	METHANE
5	14.470	465928	CARBON DIOXIDE	54410	4.9643	5.000	4.964	-0.7	CARBON DIOXIDE
0	20.793	0	ETHYLENE	0	0.0000	-----	0.000	-----	ETHYLENE
0	24.036	0	ETHANE	0	0.0000	-----	0.000	-----	ETHANE

Second source for all except ethane + ethylene
9/30/04

Software Version: 4.1<2F12>
Sample Name : 500ul
Sample Number: cert 1893
Operator : Analyst

Time : 10/7/2004 09:08 AM
Study : ccv

Instrument : GGR
AutoSampler :
Rack/Vial : 0/0

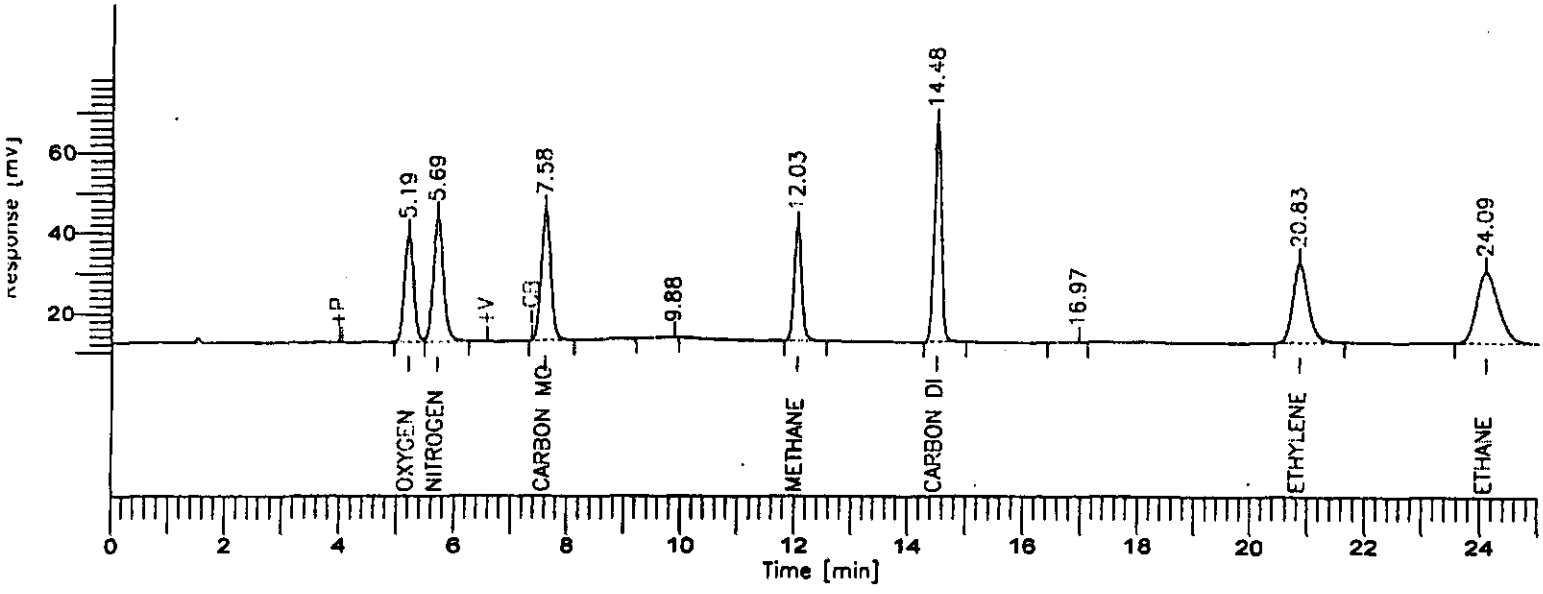
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 9/30/2004 10:54 AM
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\I29R007.RAW
Result File : O:\V3400R\I29R007.RST
Inst Method : O:\V3400R\#EINST from O:\V3400R\I29R007.RST
Proc Method : O:\V3400R\#EINST.mth
Calib Method : O:\V3400R\I29RETH.mth
Sequence File : O:\V3400R\I29RE.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Spike (%)	Amt. (%)	% Diff.	Component Name
1	5.185	291441	OXYGEN	27053	4.0993	4.000	4.099	2.5	OXYGEN
2	5.688	391663	NITROGEN	31373	5.0050	5.000	5.005	0.1	NITROGEN
3	7.581	393076	CARBON MONOXIDE	32594	4.9994	5.000	4.999	-0.0	CARBON MONOXIDE
5	12.028	261201	METHANE	28651	3.9878	4.000	3.988	-0.3	METHANE
6	14.483	466124	CARBON DIOXIDE	54458	4.9664	5.000	4.966	-0.7	CARBON DIOXIDE
8	20.833	384462	ETHYLENE	20016	5.1960	5.000	5.196	3.9	ETHYLENE
9	24.085	479512	ETHANE	18090	5.3494	5.000	5.349	7.0	ETHANE

022R.SEQ

STL GC RUN LOG FOR GR

ANALYST: mar/L

	Inj. Date	Inj. Time	File Name				DIL	OXYGEN
4/22/05	4/22/05	11:22	D22R001.rst	G81EF1AC	500ul	CCV/LCS CERT 1	1.0	
4/22/05	4/22/05	13:57	D22R002.rst	G81EF1AA	500ul	BLANK	1.0	
4/22/05	4/22/05	14:32	D22R003.rst	G803C1AA			6.5	
4/22/05	4/22/05	16:26	D22R004.rst	G803C1AA		DUP	6.5	
4/22/05	4/22/05	16:47	D22R005.rst	CERT 1893	500ul	CCV/LCS CERT 1	1.0	

Turbochrom Method File : O:\V3400R\D22RETH.MTH
Created by : SEG on : 4/22/05 16:00
Edited by : Analyst on : 4/22/05 16:01
Description : ICAL RUN ON I29R.SEQ; I29RETH.MTH. RT'S UPDATED ON 4-22-05

Number of Times Edited : 1
Number of Times Calibrated : 53

Global Information :

Default Sample Volume : 1.000 uL
Quantitation Units : %
Void Time : 0.000 min
Correct amounts during calibration : NO
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component

Component Information :

OXYGEN

Component Type : Single Peak Component
Retention Time : 5.221 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 4.000000
Value 2: 4.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0800	5378.29	491.74	----------	----------	1
2	4.0000	285128.90	26526.47	----------	----------	1
3	16.0000	1196407.78	103624.95	----------	----------	1

Average Calibration Factor = 71095.430041 (%RSD = 5.31)

NITROGEN

Component Type : Single Peak Component
Retention Time : 5.725 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	7585.71	644.25	----------	----------	1
2	5.0000	389465.10	31139.80	----------	----------	1
3	20.0000	1620301.22	109551.74	----------	----------	1

Average Calibration Factor = 78255.072634 (%RSD = 3.32)

CARBON MONOXIDE

Component Type : Single Peak Component
Retention Time : 7.595 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	7619.50	658.98	----------	----------	1
2	5.0000	389730.00	32212.44	----------	----------	1
3	20.0000	1634635.00	117811.00	----------	----------	1

Average Calibration Factor = 78624.250000 (%RSD = 3.60)

METHANE

Component Type : Single Peak Component
Retention Time : 11.980 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 4.000000
Value 2: 4.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.0800	5142.50	580.23	----------	----------	1
2	4.0000	258347.00	28330.28	----------	----------	1
3	16.0000	1082130.00	108165.62	----------	----------	1

Average Calibration Factor = 65500.375000 (%RSD = 2.83)

CARBON DIOXIDE

Component Type : Single Peak Component
Retention Time : 14.459 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 5.000000

Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	9366.50	1125.63	----------	----------	1
2	5.0000	459814.00	53729.87	----------	----------	1
3	20.0000	1918786.50	197739.52	----------	----------	1

Average Calibration Factor = 93855.708333 (%RSD = 2.13)

ETHYLENE

Component Type : Single Peak Component
Retention Time : 21.019 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 0.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	6323.50	363.89	----------	----------	1
2	5.0000	375972.50	19567.19	----------	----------	1
3	20.0000	1670960.50	76230.38	----------	----------	1

Average Calibration Factor = 73992.508333 (%RSD = 13.80)

ETHANE

Component Type : Single Peak Component
Retention Time : 24.383 min Search Window: 0.00 s, 5.00 %
Reference Component:
Find largest peak in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label :
Value 1: 0.000000
Value 2: 5.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.1000	7739.00	336.37	----------	----------	1
2	5.0000	469694.50	17833.15	----------	----------	1
3	20.0000	1951703.50	66072.48	----------	----------	1

Average Calibration Factor = 89638.025000 (%RSD = 12.01)

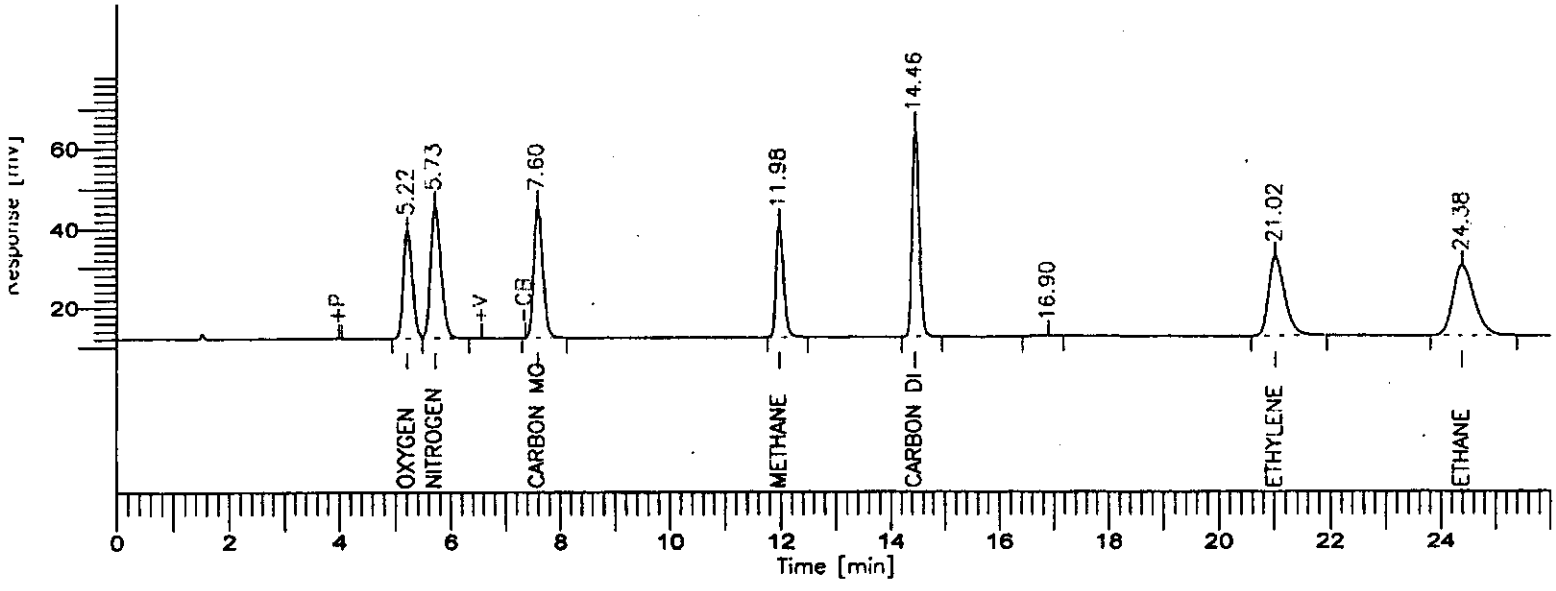
Software Version: 4.1<2F12>
Sample Name : CCV/LCS CERT 1893 Time : 4/22/05 16:01
Sample Number: G81EF1AC Study : 500ul
Operator :

Instrument : GR Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/05 11:22
Delay Time : 0.00 min.
End Time : 26.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R001.RAW
Result File : O:\V3400R\D22R001.RST
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R001.RST
Proc Method : O:\V3400R\#GASINST.mth
Calib Method : O:\V3400R\D22RETH.mth
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



eak #	Time [min]	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Spike (%)	Amt. (%)	% Diff.	Component Name
1	5.221	299615	OXYGEN	27619	4.2143	4.000	4.214	5.4	OXYGEN
2	5.725	425500	NITROGEN	33649	5.4373	5.000	5.437	8.7	NITROGEN
3	7.595	398155	CARBON MONOXIDE	33611	5.0640	5.000	5.064	1.3	CARBON MONOXIDE
4	11.980	263274	METHANE	29071	4.0194	4.000	4.019	0.5	METHANE
5	14.459	468762	CARBON DIOXIDE	52917	4.9945	5.000	4.995	-0.1	CARBON DIOXIDE
7	21.019	397168	ETHYLENE	20003	5.3677	5.000	5.368	7.4	ETHYLENE
8	24.383	477165	ETHANE	17664	5.3232	5.000	5.323	6.5	ETHANE

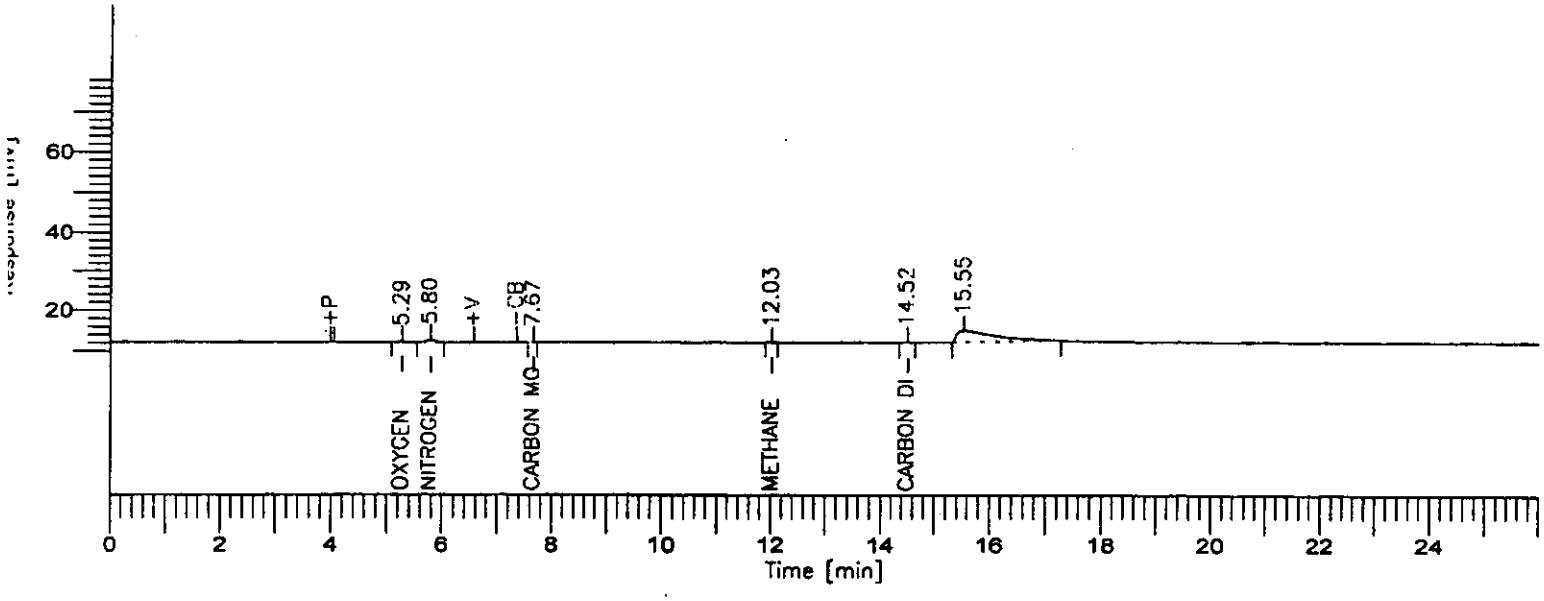
Software Version: 4.1<2F12>
Sample Name : BLANK Time : 4/22/05 16:01
Sample Number: G81EF1AA Study : 500ul
Operator :

Instrument : GR Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/05 13:57
Delay Time : 0.00 min.
End Time : 26.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R002.RAW
Result File : O:\V3400R\D22R002.RST
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R002.RST
Proc Method : O:\V3400R\#GASINST.mth
Calib Method : O:\V3400R\D22RETH.mth
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	Component Name
1	5.287	1.27	1758	OXYGEN	161	0.0247	1.000	0.0247		OXYGEN
2	5.799	1.31	6241	NITROGEN	529	0.0798	1.000	0.0798		NITROGEN
3	7.671	0.99	172	CARBON MONOXIDE	26	0.0022	1.000	0.0022		CARBON MONOXIDE
4	12.029	0.41	305	METHANE	42	0.0047	1.000	0.0047		METHANE
5	14.516	0.39	952	CARBON DIOXIDE	118	0.0101	1.000	0.0101		CARBON DIOXIDE
0	21.019	-----	0	ETHYLENE	0	0.0000	1.000	0.0000		ETHYLENE
0	24.383	-----	0	ETHANE	0	0.0000	1.000	0.0000		ETHANE
								0.1215		

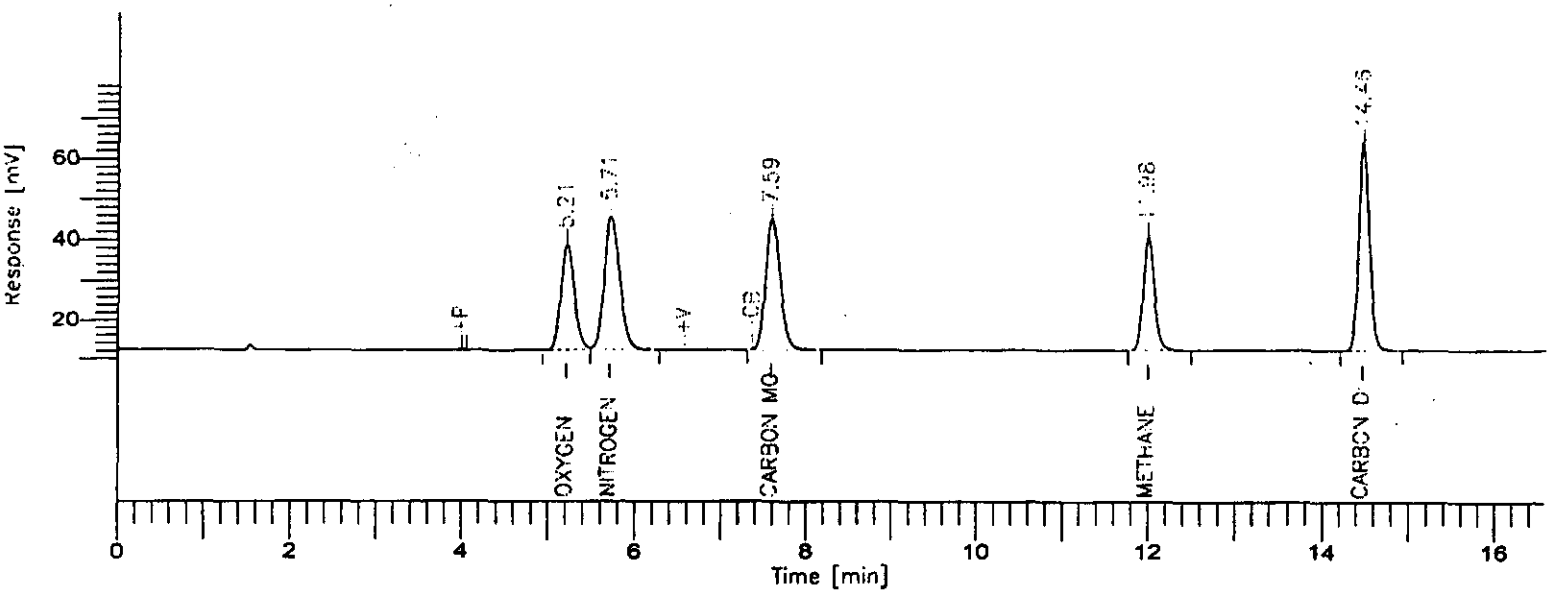
Software Version: 4.1<2F12>
Sample Name : CCV/LCS CERT 1893 Time : 4/22/05 05:03 PM
Sample Number: CERT 1893 Study : 500ul
Operator :

Instrument : GR Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/05 04:47 PM
Delay Time : 0.00 min.
End Time : 16.58 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R005.RAW
Result File : O:\V3400R\D22R005.RST
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R005.RST
Proc Method : O:\V3400R\#GASINST
Calib Method : O:\V3400R\D22RETH
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



Peak #	Time [min]	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Spike (%)	Amt. (%)	% Diff.	Component Name
1	5.209	288794	OXYGEN	26678	4.0621	4.000	4.062	1.6	OXYGEN
2	5.710	421196	NITROGEN	33381	5.3824	5.000	5.382	7.6	NITROGEN
3	7.586	390852	CARBON MONOXIDE	32754	4.9711	5.000	4.971	-0.6	CARBON MONOXIDE
4	11.983	258640	METHANE	28466	3.9487	4.000	3.949	-1.3	METHANE
5	14.462	458270	CARBON DIOXIDE	51866	4.8827	5.000	4.883	-2.3	CARBON DIOXIDE
0	21.019	0	ETHYLENE	0	0.0000	-----	0.000	-----	ETHYLENE
0	24.383	0	ETHANE	0	0.0000	-----	0.000	-----	ETHANE

Raw QC Data

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H5D220226 **Work Order #...:** G81EF1AA **Matrix.....:** AIR
MB Lot-Sample #: H5D220000-356

Prep Date.....: 04/22/05
Analysis Date..: 04/22/05 **Prep Batch #...:** 5112356
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.10	%	ASTM D 1946/E 260
Carbon monoxide	ND	0.10	%	ASTM D 1946/E 260
Methane	ND	0.10	%	ASTM D 1946/E 260
Oxygen	ND	0.10	%	ASTM D 1946/E 260

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Software Version: 4.1<2F12>
Sample Name : BLANK
Sample Number: G81EF1AA
Operator :

Time : 4/22/05 16:01
Study : 500ul

Instrument : GR
AutoSampler :
Rack/Vial : 0/0

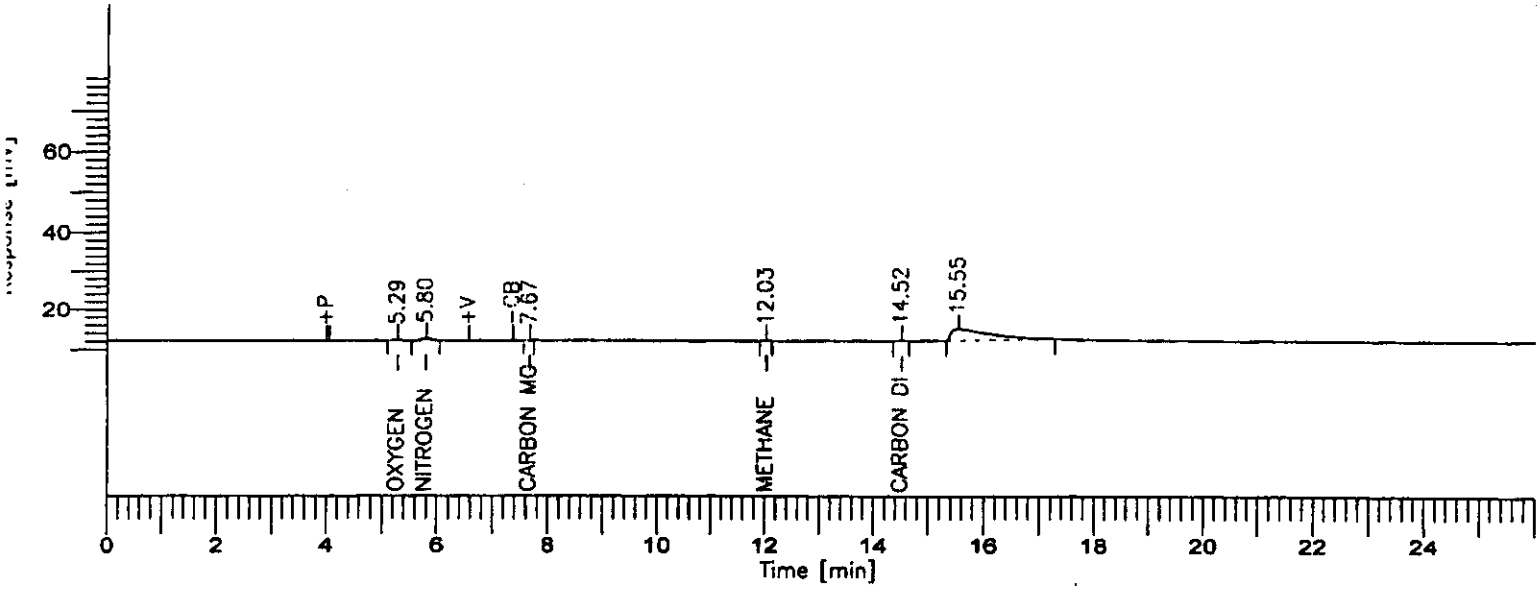
Channel : A A/D mV Range : 1000

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/05 13:57
Delay Time : 0.00 min.
End Time : 26.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R002.RAW
Result File : O:\V3400R\D22R002.RST
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R002.RST
Proc Method : O:\V3400R\#GASINST.mth
Calib Method : O:\V3400R\D22RETH.mth
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00



Peak #	Time [min]	Delta RT %	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Dilution Factor	Adjusted Amt. (%)	R N G	Component Name
1	5.287	1.27	1758	OXYGEN	161	0.0247	1.000	0.0247		OXYGEN
2	5.799	1.31	6241	NITROGEN	529	0.0798	1.000	0.0798		NITROGEN
3	7.671	0.99	172	CARBON MONOXIDE	26	0.0022	1.000	0.0022		CARBON MONOXIDE
4	12.029	0.41	305	METHANE	42	0.0047	1.000	0.0047		METHANE
5	14.516	0.39	952	CARBON DIOXIDE	118	0.0101	1.000	0.0101		CARBON DIOXIDE
0	21.019	-----	0	ETHYLENE	0	0.0000	1.000	0.0000		ETHYLENE
0	24.383	-----	0	ETHANE	0	0.0000	1.000	0.0000		ETHANE
								0.1215		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H5D220226 **Work Order #...:** G81EF1AC **Matrix.....:** AIR
LCS Lot-Sample#: H5D220000-356
Prep Date.....: 04/22/05 **Analysis Date..:** 04/22/05
Prep Batch #...: 5112356
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Carbon dioxide	**100**	**(75 - 125)**	**ASTM D 1946/E 260**
Carbon monoxide	**101**	**(70 - 130)**	**ASTM D 1946/E 260**
Methane	**100**	**(70 - 130)**	**ASTM D 1946/E 260**
Nitrogen	**109**	**(70 - 130)**	**ASTM D 1946/E 260**
Oxygen	**105**	**(70 - 130)**	**ASTM D 1946/E 260**
Ethene	**107**	**(70 - 130)**	**ASTM D 1946/E 260**
Ethane	**106**	**(70 - 130)**	**ASTM D 1946/E 260**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

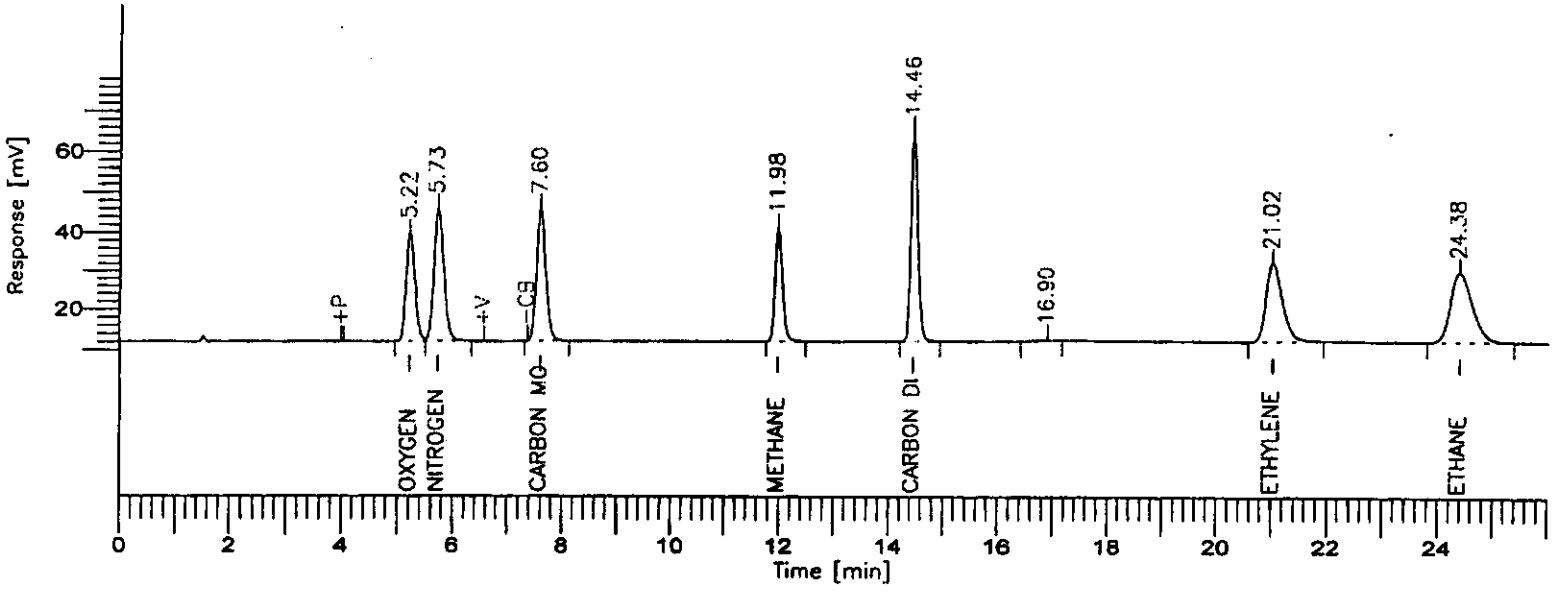
Software Version: 4.1<2F12>
Sample Name : CCV/LCS CERT 1893 Time : 4/22/05 16:01
Sample Number: G81EF1AC Study : 500ul
Operator :

Instrument : GR Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2120574793 Data Acquisition Time: 4/22/05 11:22
Delay Time : 0.00 min.
End Time : 26.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : O:\V3400R\D22R001.RAW
Result File : O:\V3400R\D22R001.RST
Inst Method : O:\V3400R\#GASINST from O:\V3400R\D22R001.RST
Proc Method : O:\V3400R\#GASINST.mth
Calib Method : O:\V3400R\D22RETH.mth
Sequence File : O:\V3400R\D22R.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



Peak #	Time [min]	Area [µV·s]	Component Name	Height [µV]	Raw Amt. (%)	Spike (%)	Amt. (%)	% Diff.	Component Name
1	5.221	299615	OXYGEN	27619	4.2143	4.000	4.214	5.4	OXYGEN
2	5.725	425500	NITROGEN	33649	5.4373	5.000	5.437	8.7	NITROGEN
3	7.595	398155	CARBON MONOXIDE	33611	5.0640	5.000	5.064	1.3	CARBON MONOXIDE
4	11.980	263274	METHANE	29071	4.0194	4.000	4.019	0.5	METHANE
5	14.459	468762	CARBON DIOXIDE	52917	4.9945	5.000	4.995	-0.1	CARBON DIOXIDE
7	21.019	397168	ETHYLENE	20003	5.3677	5.000	5.368	7.4	ETHYLENE
8	24.383	477165	ETHANE	17664	5.3232	5.000	5.323	6.5	ETHANE

Miscellaneous Data

STL Knoxville Permanent Gas Analysis Data Review / Narrative Checklist LOT # H5D220226
SOP KNOX-GC-0003, Rev. 2 **Page 1 of 1**

Analysis Date:	4-22-05			
Instrument/File ID:	D22R			
ICAL File or Date:	I29RE			

Review Items **A. Calibration**	**Yes**	**No**	**NA**	**2nd √**	**If No, why is data reportable?**
1. Was the ***correct ICAL*** used for quantitation?	✓			✓	
B. CLIENT SAMPLE AND QC SAMPLE Results	**Yes**	**No**	**NA**	**2nd √**	
1. Were all ***special project requirements*** met?	✓			✓	
2. Were sample ***IDs***, prep ***factors***, DFs ***verified***?	✓			✓	
3. Sample analyses done within preparation and analytical ***holding time*** (HT)? *If no, list samples:*	✓			✓	☐*[ht1] HT expired upon receipt.* ☐*[ht2] Client requested analysis after HT expired.** ☐**Re-extraction done after HT expired.**
4. Do positive hits meet ***qualitative identification criteria***?	✓			✓	
5. Are positive results within ***calibration range***?	✓			✓	
6. Were peaks checked for ***saturation***?	✓			✓	
7. Is ***integration*** acceptable?	✓			✓	
8. If ***manual integrations*** were performed, are they clearly identified, initialed, dated and reason given?	✓			✓	Reasons: 1) Corrected split peak; 2) Unresolved peak; 3) Tailing; 4) RT shift; 5) Wrong peak selected; 6) Other
9. Is largest ***analyte diluted*** to 20-100% of calibration range? *If no, list sample(s):*	✓			✓	☐[elev5] Elevated RLs reported due to matrix interferences.
10. Final ***report acceptable***? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, **deviations noted in narrative**, dilution factor correct, and extraction/ analysis dates correct.)	✓			✓	
C. Preparation/Matrix QC	**Yes**	**No**	**NA**	**2nd √**	
1. ***LCS*** done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:*	✓			✓	☐**[lcs2] Insufficient sample for reanalysis.*** ☐**[lcs3] LCS %R high and all analyte(s) were <RL in associated samples.**
2. ***Method blank*** done per prep batch, all surrogate recoveries OK, and all analytes present in the method blank < RL? *If no, list blank ID:*	✓			✓	☐**[mb1] Sample surrogates OK and there is no analyte >RL in samples associated with blank.*** ☐**[mb3] No analyte > RL in associated samples.*** ☐**[mb4] Sample results > 20x higher than blank.**
3. Were ***MS run #'s*** assigned correctly?	✓			✓	
D. Other	**Yes**	**No**	**NA**	**2nd √**	
1. Are all ***nonconformances*** documented appropriately?			✓	✓	
2. Are the correct ***scanned file names*** provided with report?	✓			✓	

Analyst: mol	**Date:** 4/25/05	**2nd Level Reviewer:** L	**Date:** 4/25/05
Comments:		**Comments:**	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/22/05
Time: 13:13:05

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGrou
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

****
* QC BATCH: 5112356 *
****

PREP DATE: 4/22/05 14:00
COMP DATE: 4/22/05 16:00

Reviewer/Date: _____ / 0/00/00

Gases, Fixed (D1946/E260)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/25/05	H5D220226-001 G803C-1-AA	DR	88	YG	AIR	0	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/25/05	H5D220226-001 G803C-1-ADX	DR	88	YG	AIR		NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H5D220000-356 G81EF-1-AAB		88	YG	AIR		NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H5D220000-356 G81EF-1-ACC		88	YG	AIR		NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 4

STL-Knoxville Initial Canister Dilution

Analyst: DDF

Barometer: 29.83 inches Hg at sea level
727.582 mm Hg at Knoxville

Date: 4/22/05

Lot #	W/O #	P init inches	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor	
H5D220226	G80 3C	- 23.1	140.8	3.6	913.8	6.49	(3C,DF*500=3245)

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
barometer: correction factor for 300 m altitude of Knoxville = 30.1 from Handbook of Chem and Physics
pressure in mm Hg = [(pressure at sea level in inches*25.4 mm/in) - 30.1]

#cjcandilr4.xls
rev.04

Updated: **7:01 AM EDT on April 22, 2005**
Observed at **Sterchi Hills, Knoxville, Tennessee**
This is a Personal Weather Station (History)
Weather condition observed at Knoxville.
Elevation: **900 ft / 274 m**

54.5 °F / 12.5 °C
Mostly Cloudy

Humidity:	**84%**
Dew Point:	**50 °F / 10 °C**
Wind:	**Calm**
Wind Gust:	**0.0 mph / 0.0 km/h**
Pressure:	**29.83 in / 1010.0 hPa**
UV:	**0 out of 16**

Sample Receipt Documentation

HSD220226

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B03-005-114	Page 1 of 1

Collector: Renee Nielson / Eric Hokanson	Company Contact: Renee Nielson	Telephone No.: 373-3564	Project Coordinator: KESSNER, JH
Price Code: 9K	Data Turnaround: ~~15 Days~~ 24 Hours	Air Quality	RJN 4/21/05
Project Designation: 100N Ancillary Facilities & 190-DR Other Solid Sampling fo	Sampling Location: 1900-N Tanks		SAF No.: B03-005
Ice Chest No.: AFS-04-046	Field Logbook No.: EL-1516-4	COA: R1900N13P0	Method of Shipment: Federal Express
Shipped To: STL Knoxville ~~EBERLINE SERVICES / LIONVILLE~~ RJN 4/21/05	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: 8457 9149 9821

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

None

Preservation	Cool 4C											
Type of Container	Tedlar Bag											
No. of Container(s)	1											
Volume	1L											

SAMPLE ANALYSIS

RJN 4/21/05

Sample No.	Matrix *	Sample Date	Sample Time	VOA - ~~8260A~~ ~~(FCL)~~ By TO-14 and Light gas by ASTM D 1946 (RJN 4/21/05)									
J032Y3	~~OTHER SOLID~~ Gaseous	4/21/05	1200	X									

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Eric Hokanson / R. Nielson	4/21/05 1530	Fed Ex	
Relinquished By/Removed From	Date/Time	Received By/Stored In: Andrew D. Flores	4/22/05 0930
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS RJN 4/21/05

Contact Joan Kessner (509) 375-4688 ~~for requested analysis~~ with questions.

Custody Seals Intact
Rec'd Temp. Ambient
1 cooler / FEDEX
TE 8457 9149 9821
ADF 04-22-05

Matrix *
S=Soil
SF=Sediment
SO=Solid
SL=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (03/01/2002)

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Bechtel Hanford Inc. **Project:** _____ **Lot Number:** HSD220220

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (North Carolina, 1668, 1613B: 0-4°C; VOST: 10°C) (Cooler temp should be used only if no temp blank.)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished by client	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 64179 PM Instructions: _____

Sample Receiving Associate: Andrew D. Flores Date: 04-22-05

QA026R15.doc, 11/15/04

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

BORATORY: STL Los Angeles, Air Toxics Lab
1721 South Grand Avenue
Santa Ana CA 92705,
ATTN:

NEED ANALYTICAL REPORT BY
4/24/05

ATTN:

PURCHASE ORDER: SR068108

CLIENT CODE: 127642 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0001

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H5D220226-001	4/21/05	Volatile Organics by GC/MS TO-15 (Medium Level)
G803C-1-AC		( ) METHOD: TO-15

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 4/22/05

SEND REPORT TO: JAMIE MCKINNEY

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville
INT: _____ 4/22/05 13:11:28
STL Los Angeles, Air Toxics Lab
1721 South Grand Avenue
Santa Ana CA 92705,

RELINQUISHED BY: [signature] DATE/TIME: 4-22-05 17:00

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: [signature] DATE/TIME: 4-23-05 7000

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION