ACCUTEST GULF COAST
10165 HARWIN DRIVE
HOUSTON, TX 77036
(713) 271-4700

Case Narrative for:

Louisiana Department of Environmental Quality

Certificate of Analysis Number:

12090201

Report To:	
Louisiana Department of Environmental Quality	**Project Name:** **AI#/AQS#/Chevron Pipeline**
Randy Creighton	**Site:** **Chevron Pipeline**
1209 Leesville Ave.	**Site Address:**
Baton Rouge	**PO Number:** **Contract# 687758**
LA	**State:** **Louisiana**
70802-	**State Cert. No.:** **04004**
ph: (225) 219-3676 fax: (225) 219-9898	**Date Reported:** **10/11/2012**

I. SAMPLE RECEIPT:

All samples were received intact.

Please see attached sample receipt checklist for any nonconformance issues.

II: ANALYSES AND EXCEPTIONS:

PAMS Air Analysis:

Comparison of results for random samples analyzed by PAMS GC/FID and by qualitative analysis by GCMS has shown over 95% of positive results over 2ppbC for butene and pentene isomers to be false positives due to matrix interference from polar compounds. When a large non-symmetrical peak, characteristic of polar compounds such as methanol, acetone or isopropanol, is identified as a target compound, the analyte result will be set to zero, reported as ND and Y flagged. The area of the deleted peak(s) will be added to the TNMOC result. When obvious matrix interference is present, the presence of a coeluting target analyte cannot be absolutely ruled out and therefore these results will be reported, but qualified with a Y Flag. The Y qualifier on a detected analyte signifies a possible false positive due to matrix interference.

III. GENERAL REPORTING COMMENTS:

The PAMS results are reported down to 0.0 ppbC. Non-detect samples are reported with a ND to indicate that the target compounds were not detected and results below the PQL (5 ppbC on an undiluted sample) are reported with a J flag.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples to ensure method criteria are achieved throughout the entire analytical process. A random sample was chosen to run as sample duplicate.

Some of the RPD's on the QC report for the sample/sample duplicate may be different than the c RPD's using the sample results that appear on the report because, the actual raw result is used to perform the calculations for RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.The software used to prepare this data package calculates according to EPA mandated rounding rules and the final results calculated may differ slightly from the results in the quantitation reports.

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10/11/2012

Neaundra Wyatt
Client Services

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

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Certificate of Analysis Number:

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This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Labs of Gulf Coast, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Neaundra Wyatt
Client Services

12090201 Page 2
10/11/2012
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

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Certificate of Analysis Number:

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Report To: **Louisiana Department of Environmental Quality**
Randy Creighton
1209 Leesville Ave.

Baton Rouge
LA
70802-
ph: (225) 219-3676 **fax: (225) 219-9898**

Fax To:

Project Name: **AI#/AQS#/Chevron Pipeline**
Site: **Chevron Pipeline**
Site Address:

PO Number: **Contract# 687758**
State: **Louisiana**
State Cert. No.: **04004**
Date Reported: **10/11/2012**
Field Sampler: **Jason Fontenot**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
468-C-092612-S	12090201-01	Air	09/26/2012 10:25	9/27/2012 10:30:00 AM		☐

10/11/2012

Neaundra Wyatt
Client Services

Date

Richard Rodriguez
Laboratory Director

Ted Yen
Quality Assurance Officer

ACCUTEST GULF COAST
10165 HARWIN DRIVE
HOUSTON, TX 77036
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Client Sample ID: 468-C-092612-S **Collected:** 09/26/2012 10:25 **Lab Sample ID:** 12090201-01

Site: **Chevron Pipeline**

Analyses/Method	**DURATION**				**SUMMA SAMPLING**		**Units:**	**Hours**
Parameter	**Result**	**Qual**	**MDL**	**PQL**	**Dil. Factor**	**Date Analyzed**	**Analyst**	**Seq. #**
Duration	0.017		0	0	1	10/02/12 0:00	BF	5819729

Neaundra Wyatt
Client Services

Qualifiers:
ND/U - Not Detected At The MDL
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte In Blank At Or Above 2 ppbC/For TO-15 0.2 ppbv
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: 468-C-092612-S **Collected:** 09/26/2012 10:25 **Lab Sample ID:** 12090201-01

Site: **Chevron Pipeline**

Analyses/Method **TARGET TOXIC COMPOUNDS IN AMBIENT AIR BY GC/MS** **TO-15_LDEQ** **Units:** **ppbv**

Parameter	Result	Qual	MDL	PQL	Dil. Factor	Date Analyzed	Analyst	Seq. #
1,1,1-Trichloroethane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,1,2,2-Tetrachloroethane	111.19	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,1,2-Trichloroethane	99.84	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,1-Dichloroethane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,1-Dichloroethene	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,2,4-Trichlorobenzene	70.50	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,2,4-Trimethylbenzene	93.92	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,2-Dibromoethane	87.22	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,2-Dichloroethane	937.24	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,2-Dichloropropane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,3,5-Trimethylbenzene	95.76	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
1,3-Butadiene	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
2-Butanone	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
2-Hexanone	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
4-Methyl-2-pentanone	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Acetone	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Acetonitrile	132.16	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Acrylonitrile	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Allyl chloride	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Benzene	8211.53		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Benzyl chloride	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Bromomethane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Carbon disulfide	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Carbon tetrachloride	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Chloroacetonitrile	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Chlorobenzene	144.27	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Chlorobutane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Chloroethane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Chloroform	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Chloromethane	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
cis-1,2-Dichloroethylene	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
cis-1,3-dichloropropylene	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Diethyl ether	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Ethyl methacrylate	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Ethylbenzene	245.69	J	< 0.2	3200	6400	10/05/12 5:07	E_G	5819941
Freon 11	ND		< 0.2	3200	6400	10/05/12 5:07	E_G	5819941

Neaundra Wyatt
Client Services

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Client Sample ID: 468-C-092612-S **Collected:** 09/26/2012 10:25 **Lab Sample ID:** 12090201-01

Site: **Chevron Pipeline**

Analyses/Method **TARGET TOXIC COMPOUNDS IN AMBIENT AIR BY GC/MS** **TO-15_LDEQ** **Units:** **ppbv**

Parameter	Result	Qual	MDL		PQL	Dil. Factor	Date Analyzed	Analyst	Seq. #
Freon 113	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Freon 114	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Freon 12	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Hexachlorobutadiene	142.40	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
m+p-Xylenes	853.37	J	< 0.2		6400	6400	10/05/12 5:07	E_G	5819941
m-Dichlorobenzene	104.27	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Methacrylonitrile	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Methyl acrylate	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Methyl methacrylate	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Methyl tert-butyl ether	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Methylene chloride	474.41	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Nitrobenzene	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Nitropropane	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
o-Dichlorobenzene	116.56	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
o-Xylene	268.07	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
p-Dichlorobenzene	96.37	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Styrene	67.83	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Tetrachloroethylene	81.41	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Tetrahydrofuran	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Toluene	4280.38		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
trans-1,3-Dichloropropene	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Trichloroethylene	ND		< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Vinyl chloride	603.22	J	< 0.2		3200	6400	10/05/12 5:07	E_G	5819941
Surr: 4-Bromofluorobenzene	93.90		< 0.2	%	70-130	6400	10/05/12 5:07	E_G	5819941

Neaundra Wyatt
Client Services

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Quality Control Documentation

ACCUTEST GULF COAST
10165 HARWIN DRIVE
HOUSTON, TX 77036
(713) 271-4700

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Duration**	**WorkOrder:**	**12090201**
Method:	**Summa Sampling**	**Lab Batch ID:**	**R321753**

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
12090201-01A	468-C-092612-S

Qualifiers:
ND/U - Not Detected at the MDL
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte In Blank At Or Above 2 ppbC/For TO-15 0.2 ppbv
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Dry Air Blank

RunID:	M_121005A-5819933	Units:	ppbv
Analysis Date:	10/04/2012 21:24	Analyst:	E_G

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
12090201-01A	468-C-092612-S

Analyte	Result	Qual	Rep Limit	MDL
1,1,1-Trichloroethane	ND		0.20	0
1,1,2,2-Tetrachloroethane	ND		0.20	0
1,1,2-Trichloroethane	ND		0.20	0
1,1-Dichloroethane	ND		0.20	0
1,1-Dichloroethene	ND		0.20	0
1,2,4-Trichlorobenzene	0.046	J	0.20	0
1,2,4-Trimethylbenzene	0.006	J	0.20	0
1,2-Dibromoethane	ND		0.20	0
1,2-Dichloroethane	ND		0.20	0
1,2-Dichloropropane	ND		0.20	0
1,3,5-Trimethylbenzene	ND		0.20	0
1,3-Butadiene	ND		0.20	0
2-Butanone	ND		0.20	0
2-Hexanone	ND		0.20	0
4-Methyl-2-pentanone	ND		0.20	0
Acetone	0.13	J	1.0	0
Acetonitrile	ND		0.20	0
Acrylonitrile	ND		0.20	0
Allyl chloride	ND		0.20	0
Benzene	ND		0.20	0
Benzyl chloride	ND		0.20	0
Bromomethane	ND		0.20	0
Carbon disulfide	ND		0.20	0
Carbon tetrachloride	ND		0.20	0
Chloroacetonitrile	ND		0.20	0
Chlorobenzene	ND		0.20	0
Chlorobutane	ND		0.20	0
Chloroethane	ND		0.20	0
Chloroform	ND		0.20	0
Chloromethane	ND		0.20	0
cis-1,2-Dichloroethylene	ND		0.20	0
cis-1,3-dichloropropylene	ND		0.20	0
Diethyl ether	ND		0.20	0
Ethyl methacrylate	ND		0.20	0
Ethylbenzene	ND		0.20	0
Freon 11	ND		0.20	0
Freon 113	ND		0.20	0
Freon 114	ND		0.20	0
Freon 12	ND		0.20	0
Hexachlorobutadiene	0.015	J	0.20	0
m+p-Xylenes	ND		0.40	0

Qualifiers:
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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Dry Air Blank

RunID: M_121005A-5819933 Units: ppbv

Analysis Date: 10/04/2012 21:24 Analyst: E_G

Analyte	Result	Qual	Rep Limit	MDL
m-Dichlorobenzene	0.011	J	0.20	0
Methacrylonitrile	ND		0.20	0
Methyl acrylate	ND		0.20	0
Methyl methacrylate	ND		0.20	0
Methyl tert-butyl ether	ND		0.20	0
Methylene chloride	0.089	J	0.20	0
Nitrobenzene	0.088	J	0.20	0
Nitropropane	ND		0.20	0
o-Dichlorobenzene	0.015	J	0.20	0
o-Xylene	ND		0.20	0
p-Dichlorobenzene	0.013	J	0.20	0
Styrene	ND		0.20	0
Tetrachloroethylene	ND		0.20	0
Tetrahydrofuran	ND		0.20	0
Toluene	ND		0.20	0
trans-1,3-Dichloropropene	ND		0.20	0
Trichloroethylene	ND		0.20	0
Vinyl chloride	ND		0.20	0
Surr: 4-Bromofluorobenzene	93.7		70-130	0

Humid Air Blank

RunID: M_121005A-5819934 Units: ppbv

Analysis Date: 10/04/2012 22:31 Analyst: E_G

Analyte	Result	Qual	Rep Limit
1,1,1-Trichloroethane	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,1,2-Trichloroethane	ND		0.20
1,1-Dichloroethane	ND		0.20
1,1-Dichloroethene	ND		0.20
1,2,4-Trichlorobenzene	0.0293	J	0.20
1,2,4-Trimethylbenzene	0.00431	J	0.20
1,2-Dibromoethane	ND		0.20
1,2-Dichloroethane	ND		0.20
1,2-Dichloropropane	ND		0.20
1,3,5-Trimethylbenzene	0.00266	J	0.20

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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Humid Air Blank

RunID:	M_121005A-5819934	Units:	ppbv
Analysis Date:	10/04/2012 22:31	Analyst:	E_G

Analyte	Result	Qual	Rep Limit
1,3-Butadiene	ND		0.20
2-Butanone	0.0115	J	0.20
2-Hexanone	ND		0.20
4-Methyl-2-pentanone	ND		0.20
Acetone	0.202	J	1.0
Acetonitrile	ND		0.20
Acrylonitrile	ND		0.20
Allyl chloride	ND		0.20
Benzene	ND		0.20
Benzyl chloride	0.00628	J	0.20
Bromomethane	ND		0.20
Carbon disulfide	ND		0.20
Carbon tetrachloride	ND		0.20
Chloroacetonitrile	ND		0.20
Chlorobenzene	0.00399	J	0.20
Chlorobutane	ND		0.20
Chloroethane	ND		0.20
Chloroform	ND		0.20
Chloromethane	ND		0.20
cis-1,2-Dichloroethylene	ND		0.20
cis-1,3-dichloropropylene	ND		0.20
Diethyl ether	ND		0.20
Ethyl methacrylate	ND		0.20
Ethylbenzene	ND		0.20
Freon 11	ND		0.20
Freon 113	ND		0.20
Freon 114	ND		0.20
Freon 12	ND		0.20
Hexachlorobutadiene	0.0086	J	0.20
m+p-Xylenes	ND		0.40
m-Dichlorobenzene	0.00917	J	0.20
Methacrylonitrile	ND		0.20
Methyl acrylate	ND		0.20
Methyl methacrylate	ND		0.20
Methyl tert-butyl ether	ND		0.20
Methylene chloride	0.0785	J	0.20
Nitrobenzene	0.0466	J	0.20
Nitropropane	ND		0.20
o-Dichlorobenzene	0.00764	J	0.20
o-Xylene	ND		0.20
p-Dichlorobenzene	0.0096	J	0.20

Qualifiers:
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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Humid Air Blank

RunID: M_121005A-5819934 Units: ppbv

Analysis Date: 10/04/2012 22:31 Analyst: E_G

Analyte	Result	Qual	Rep Limit
Styrene	ND		0.20
Tetrachloroethylene	ND		0.20
Tetrahydrofuran	ND		0.20
Toluene	ND		0.20
trans-1,3-Dichloropropene	ND		0.20
Trichloroethylene	ND		0.20
Vinyl chloride	ND		0.20
Surr: 4-Bromofluorobenzene	96.6		70-130

Laboratory Control Sample (LCS)

RunID: M_121005A-5819932 Units: ppbv

Analysis Date: 10/04/2012 20:09 Analyst: E_G

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,1,1-Trichloroethane	7.50	8.70	116		70	130
1,1,2,2-Tetrachloroethane	7.50	7.39	98.5		70	130
1,1,2-Trichloroethane	7.50	7.42	98.9		70	130
1,1-Dichloroethane	7.50	8.17	109		70	130
1,1-Dichloroethene	7.50	8.50	113		70	130
1,2,4-Trichlorobenzene	7.50	7.87	105		70	130
1,2,4-Trimethylbenzene	7.50	8.53	114		70	130
1,2-Dibromoethane	7.50	7.72	103		70	130
1,2-Dichloroethane	7.50	8.69	116		70	130
1,2-Dichloropropane	7.50	7.16	95.4		70	130
1,3,5-Trimethylbenzene	7.50	8.31	111		70	130
1,3-Butadiene	7.50	8.28	110		70	130
2-Butanone	7.50	8.22	110		70	130
2-Hexanone	7.50	7.40	98.7		70	130
4-Methyl-2-pentanone	7.50	7.27	97.0		70	130
Acetone	7.50	8.34	111		70	130
Acetonitrile	7.50	7.04	93.9		70	130

Qualifiers:
ND/U - Not Detected at the MDL
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte In Blank At Or Above 2 ppbC/For TO-15 0.2 ppbv
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

ACCUTEST GULF COAST
10165 HARWIN DRIVE
HOUSTON, TX 77036
(713) 271-4700

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Laboratory Control Sample (LCS)

RunID:	M_121005A-5819932	Units:	ppbv
Analysis Date:	10/04/2012 20:09	Analyst:	E_G

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Acrylonitrile	7.50	8.26	110		70	130
Allyl chloride	7.50	8.10	108		70	130
Benzene	7.50	8.73	116		70	130
Benzyl chloride	7.50	7.63	102		70	130
Bromomethane	7.50	9.22	123		70	130
Carbon disulfide	7.50	8.10	108		70	130
Carbon tetrachloride	7.50	8.46	113		70	130
Chloroacetonitrile	7.50	7.70	103		70	130
Chlorobenzene	7.50	7.71	103		70	130
Chlorobutane	7.50	8.78	117		70	130
Chloroethane	7.50	8.73	116		70	130
Chloroform	7.50	8.74	117		70	130
Chloromethane	7.50	7.75	103		70	130
cis-1,2-Dichloroethylene	7.50	8.47	113		70	130
cis-1,3-dichloropropylene	7.50	7.32	97.6		70	130
Diethyl ether	7.50	9.25	123		70	130
Ethyl methacrylate	7.50	7.83	104		70	130
Ethylbenzene	7.50	8.22	110		70	130
Freon 11	7.50	9.31	124		70	130
Freon 113	7.50	8.48	113		70	130
Freon 114	7.50	10.2	136 *		70	130
Freon 12	7.50	9.15	122		70	130
Hexachlorobutadiene	7.50	7.80	104		70	130
m+p-Xylenes	15.0	16.4	109		70	130
m-Dichlorobenzene	7.50	8.26	110		70	130
Methacrylonitrile	7.50	9.34	125		70	130
Methyl acrylate	7.50	8.88	118		70	130
Methyl methacrylate	7.50	8.31	111		70	130
Methyl tert-butyl ether	7.50	9.71	129		70	130
Methylene chloride	7.50	7.01	93.5		70	130

Qualifiers:
ND/U - Not Detected at the MDL
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte In Blank At Or Above 2 ppbC/For TO-15 0.2 ppbv
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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10165 HARWIN DRIVE
HOUSTON, TX 77036
(713) 271-4700

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Laboratory Control Sample (LCS)

RunID: M_121005A-5819932 Units: ppbv
Analysis Date: 10/04/2012 20:09 Analyst: E_G

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Nitrobenzene	7.50	5.42	72.3		70	130
Nitropropane	7.50	7.09	94.5		70	130
o-Dichlorobenzene	7.50	8.18	109		70	130
o-Xylene	7.50	8.29	111		70	130
p-Dichlorobenzene	7.50	8.54	114		70	130
Styrene	7.50	8.49	113		70	130
Tetrachloroethylene	7.50	7.94	106		70	130
Tetrahydrofuran	7.50	8.33	111		70	130
Toluene	7.50	8.21	110		70	130
trans-1,3-Dichloropropene	7.50	8.85	118		70	130
Trichloroethylene	7.50	7.70	103		70	130
Vinyl chloride	7.50	8.51	113		70	130
Surr: 4-Bromofluorobenzene	100	103	103		70	130

Sample Duplicate

Original Sample: 12090159-01
RunID: M_121005A-5819935 Units: ppbv
Analysis Date: 10/05/2012 1:49 Analyst: E_G

Analyte	Sample Result	DUP Result	Qual	RPD	RPD Limit
1,1,1-Trichloroethane	ND	ND		0	25
1,1,2,2-Tetrachloroethane	ND	ND		0	25
1,1,2-Trichloroethane	ND	ND		0	25
1,1-Dichloroethane	ND	ND		0	25
1,1-Dichloroethene	ND	ND		0	25
1,2,4-Trichlorobenzene	0.01	0.01	J	0	25
1,2,4-Trimethylbenzene	0.08	0.09	J	0	25
1,2-Dibromoethane	ND	ND		0	25

Qualifiers:
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* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Sample Duplicate

Original Sample:	12090159-01		
RunID:	M_121005A-5819935	Units:	ppbv
Analysis Date:	10/05/2012 1:49	Analyst:	E_G

Analyte	Sample Result	DUP Result	Qual	RPD	RPD Limit
1,2-Dichloroethane	ND	ND		0	25
1,2-Dichloropropane	ND	ND		0	25
1,3,5-Trimethylbenzene	0.03	0.03	J	0	25
1,3-Butadiene	0.11	0.1	J	0	25
2-Butanone	0.69	0.7		2.0	25
2-Hexanone	ND	ND		0	25
4-Methyl-2-pentanone	0.04	0.04	J	0	25
Acetone	7.02	7.23		2.89	25
Acetonitrile	0.18	0.2	J	0	25
Acrylonitrile	0.05	0.09	J	0	25
Allyl chloride	ND	ND		0	25
Benzene	0.42	0.41	J	0	25
Benzyl chloride	ND	ND		0	25
Bromomethane	ND	ND		0	25
Carbon disulfide	ND	ND		0	25
Carbon tetrachloride	0.08	0.08	J	0	25
Chloroacetonitrile	ND	ND		0	25
Chlorobenzene	ND	ND		0	25
Chlorobutane	ND	ND		0	25
Chloroethane	ND	ND		0	25
Chloroform	0.03	0.03	J	0	25
Chloromethane	0.65	0.65		0.45	25
cis-1,2-Dichloroethylene	ND	ND		0	25
cis-1,3-dichloropropylene	0.06	0.07	J	0	25
Diethyl ether	ND	ND		0	25
Ethyl methacrylate	ND	ND		0	25
Ethylbenzene	0.09	0.1	J	0	25
Freon 11	0.27	0.27	J	0	25

Qualifiers:
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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/Chevron Pipeline

Analysis:	**Target Toxic Compounds in Ambient Air by GC/MS**	**WorkOrder:**	**12090201**
Method:	**TO-15_LDEQ**	**Lab Batch ID:**	**R321767**

Sample Duplicate

Original Sample:	12090159-01		
RunID:	M_121005A-5819935	Units:	ppbv
Analysis Date:	10/05/2012 1:49	Analyst:	E_G

Analyte	Sample Result	DUP Result	Qual	RPD	RPD Limit
Freon 113	0.08	0.08	J	0	25
Freon 114	0.02	0.02	J	0	25
Freon 12	0.57	0.58		0.80	25
Hexachlorobutadiene	ND	ND		0	25
m+p-Xylenes	0.32	0.34	J	0	25
m-Dichlorobenzene	ND	ND		0	25
Methacrylonitrile	0.3	0.29	J	0	25
Methyl acrylate	ND	ND		0	25
Methyl methacrylate	ND	ND		0	25
Methyl tert-butyl ether	ND	ND		0	25
Methylene chloride	0.15	0.15	J	0	25
Nitrobenzene	ND	ND		0	25
Nitropropane	ND	ND		0	25
o-Dichlorobenzene	ND	ND		0	25
o-Xylene	0.11	0.12	J	0	25
p-Dichlorobenzene	0.04	0.04	J	0	25
Styrene	0.03	0.03	J	0	25
Tetrachloroethylene	0.02	0.02	J	0	25
Tetrahydrofuran	ND	ND		0	25
Toluene	0.76	0.82		6.7	25
trans-1,3-Dichloropropene	0.06	0.07	J	0	25
Trichloroethylene	ND	ND		0	25
Vinyl chloride	ND	ND		0	25
Surr: 4-Bromofluorobenzene	95.8	96.5		0.7226	30

Qualifiers:
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Sample Receipt Checklist

And

Chain of Custody

ACCUTEST GULF COAST
10165 HARWIN DRIVE
HOUSTON, TX 77036
(713) 271-4700

Sample Receipt Checklist

Workorder:	**12090201**	Received By:	**E_G**
Date and Time Received:	**9/27/2012 10:30:00 AM**	Carrier name:	**ACCUTEST**
Temperature:	**25.2°C**	Chilled by:	**Not Chilled**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present ☑
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☐	No ☐	VOA Vials Not Present ☑
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

Accutest Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

12090201 468-C-092612-S

"Grab" Sample Collection Worksheet
Louisiana Department of Environmental Quality
Surveillance Division

Date of Collection: 9/26/2012	Canister Number: LA 2572
Collected By:	Sample Location: Chevron Pipeline
Print Name: Jason Fontenot	(GPS) Latitude:
Signature: Jason Fontenot	(GPS) Longitude:
Phone No.: (225) 219-3028	
Witness:	Witness:
Analysis Requested: TO15	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No (✓)
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

Sampling Data (24:00)

Start Time: 10:25 AM	End Time: 10:25 AM	Total Time (min): < 1 min

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)

***** (draw map on back of sheet showing sampling location and wind direction) *****

Chain of Custody Record

Relinquished By:	Received By:
Name: Jason Fontenot	Name: R E Guillot
Signature: Jason Fontenot	Signature: R E Guillot
Date: 9/27/2012 Time: 09:47 AM	Date: 9.27.12 Time: 10 30
Name:	Name: Ginny Smith
Signature: R E Guillot	Signature:
Date: 9-27-12 Time: 1020	Date: 9-27-12 Time: 1020
Name:	Name:
Signature:	Signature:
Date: 9-27-12 Time:	Date: 9/27/12 Time: 1730
Name:	Name:
Signature:	Signature: Elizabeth Gonzalez
Date: 9/27/12 Time: 2030	Date: Time:

Form Rev. 1 Revised 2/14/2008

Volatile Organic (TO-15)

Library Search (TIC's)

Tentatively Identified Compound (LSC) summary

Data Path : M:\AIR_M\2A12-1004\
Data File : M12J069.D
Acq On : 5 Oct 2012 5:07 am
Operator : E_G
Sample : 12090201-01A
Misc : SAMP;TO-15_LDEQ
ALS Vial : 10 Sample Multiplier: 6400

Quant Method : M:\AIR_M_METHODS\M12I29.M
Quant Title : TO-15 LA

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Propane	8.238	274748.0	ppbv	7047210	1	14.838	1025990	6.3
Isobutane	8.631	105840.0	ppbv	2714770	1	14.838	1025990	6.3
Butane	8.978	82379.8	ppbv	2113020	1	14.838	1025990	6.3
Butane, 2-methyl-	10.243	54289.1	ppbv	1392500	1	14.838	1025990	6.3
Pentane	10.903	33596.1	ppbv	861732	1	14.838	1025990	6.3
Pentane, 2-methyl-	13.453	15769.8	ppbv	404493	1	14.838	1025990	6.3
Pentane, 3-methyl-	14.121	8513.9	ppbv	218380	1	14.838	1025990	6.3
Hexane	14.950	17166.1	ppbv	440307	1	14.838	1025990	6.3
Cyclopentane, m...	16.401	7134.7	ppbv	183004	1	14.838	1025990	6.3
Cyclohexane, me...	21.914	7561.2	ppbv	339943	2	18.526	1798350	6.3

Library Search Compound Report

Data Path : M:\AIR M\2A12-1004\
Data File : M12J069.D
Acq On : 5 Oct 2012 5:07 am
Operator : E G
Sample : 12090201-01A
Misc : SAMP;TO-15 LDEQ
ALS Vial : 10 Sample Multiplier: 6400

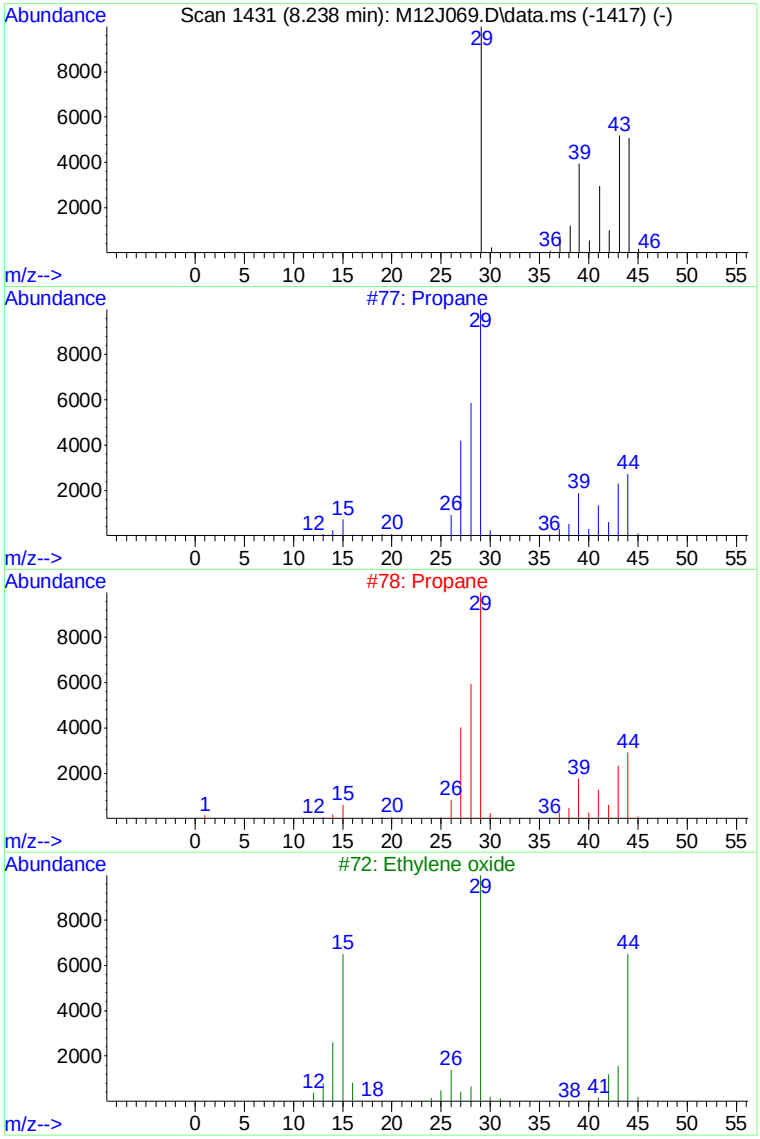
Quant Method : M:\AIR M_METHODS\M12I29.M
Quant Title : TO-15 LA

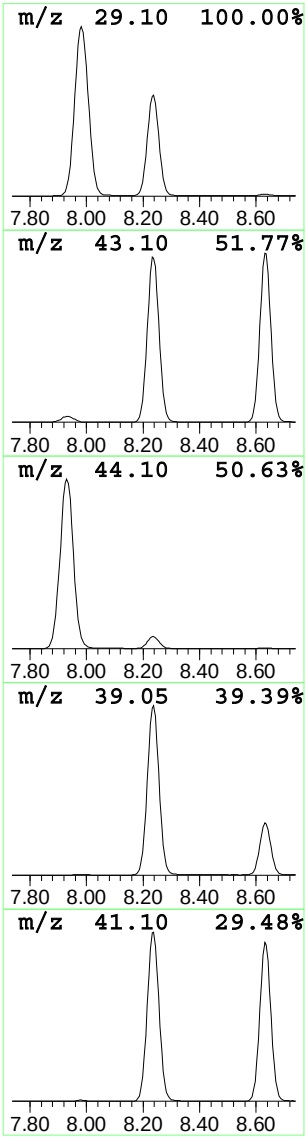
TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

****
Peak Number 1 Propane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.238	274748.00 ppbv	7047210	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	91
2	Propane	44	C3H8	000074-98-6	90
3	Ethylene oxide	44	C2H4O	000075-21-8	40
4	Ethylene oxide	44	C2H4O	000075-21-8	40
5	Propane	44	C3H8	000074-98-6	9





Library Search Compound Report

Data Path : M:\AIR M\2A12-1004\
Data File : M12J069.D
Acq On : 5 Oct 2012 5:07 am
Operator : E G
Sample : 12090201-01A
Misc : SAMP;TO-15 LDEQ
ALS Vial : 10 Sample Multiplier: 6400

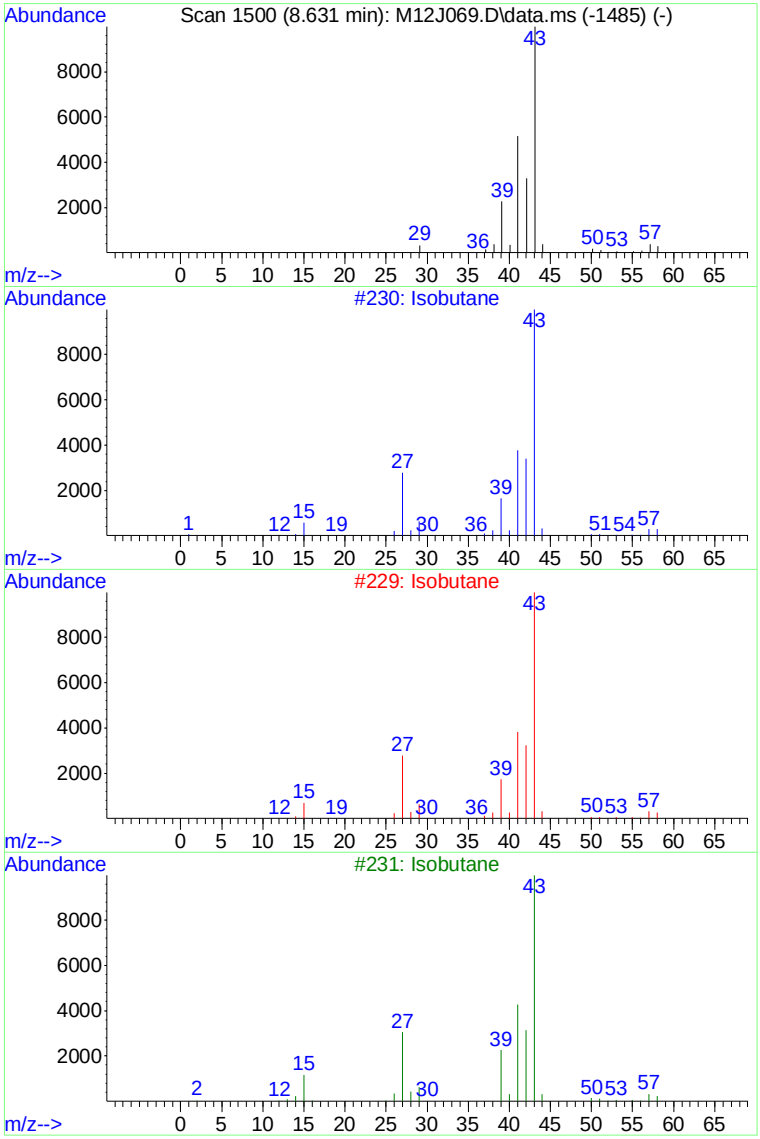
Quant Method : M:\AIR M_METHODS\M12I29.M
Quant Title : TO-15 LA

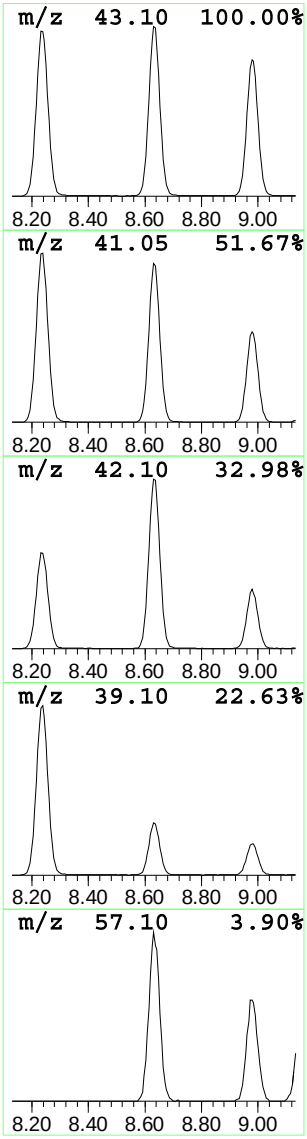
TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

****
Peak Number 2 Isobutane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.631	105840.00 ppbv	2714770	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	80
2	Isobutane	58	C4H10	000075-28-5	72
3	Isobutane	58	C4H10	000075-28-5	64
4	Isobutane	58	C4H10	000075-28-5	59
5	Propane, 1-nitro-	89	C3H7NO2	000108-03-2	9





Library Search Compound Report

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Data Path : M:\AIR M\2A12-1004\
Data File : M12J069.D
Acq On    :  5 Oct 2012   5:07 am
Operator  : E G
Sample    : 12090201-01A
Misc      : SAMP;TO-15 LDEQ
ALS Vial  : 10   Sample Multiplier: 6400

Quant Method : M:\AIR M\_METHODS\M12I29.M
Quant Title  : TO-15 LA

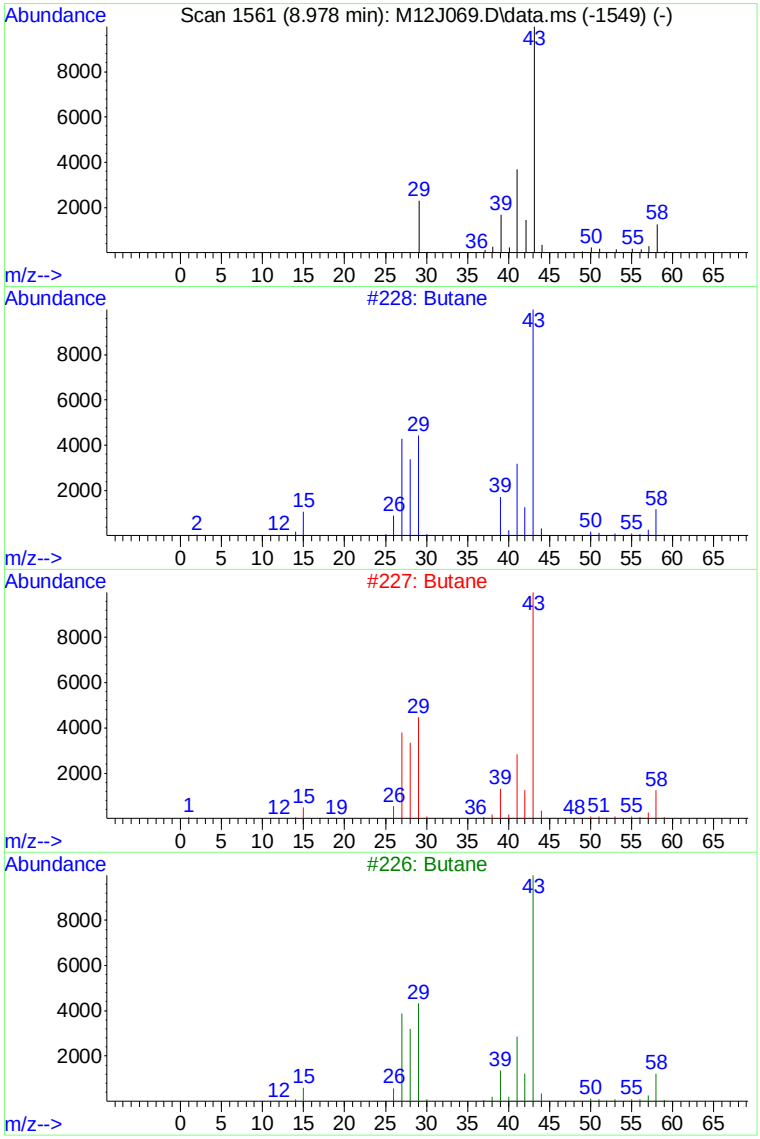
TIC Library    : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P
```

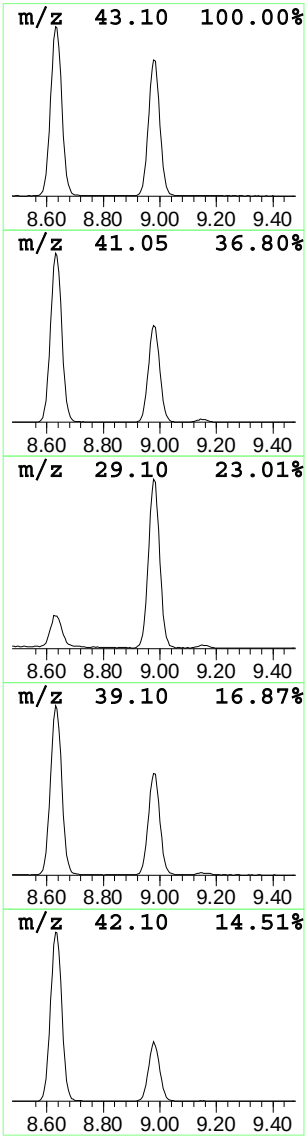
****

Peak Number 3 Butane — Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.978	82379.80 ppbv	2113020	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	64
2	Butane	58	C4H10	000106-97-8	59
3	Butane	58	C4H10	000106-97-8	59
4	Isobutane	58	C4H10	000075-28-5	9
5	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9





Library Search Compound Report

```
Data Path : M:\AIR M\2A12-1004\
Data File : M12J069.D
Acq On    :  5 Oct 2012   5:07 am
Operator  : E G
Sample    : 12090201-01A
Misc      : SAMP;TO-15 LDEQ
ALS Vial  : 10   Sample Multiplier: 6400

Quant Method : M:\AIR M\_METHODS\M12I29.M
Quant Title  : TO-15 LA

TIC Library    : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P
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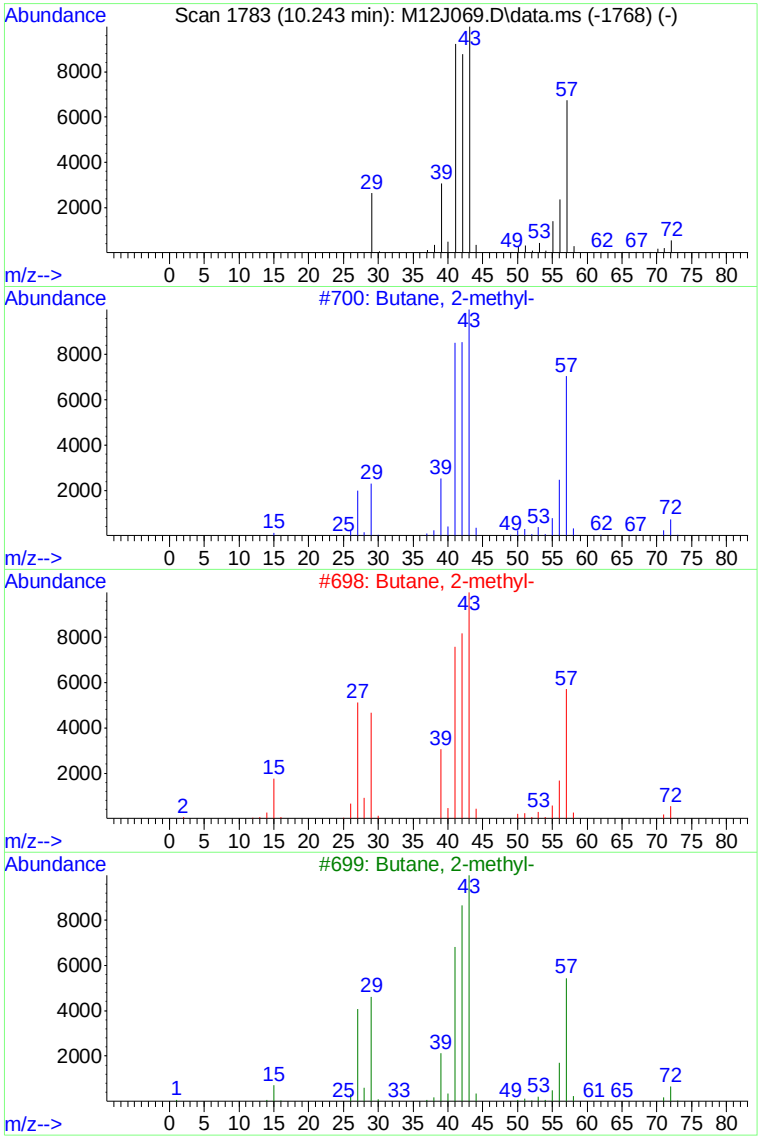
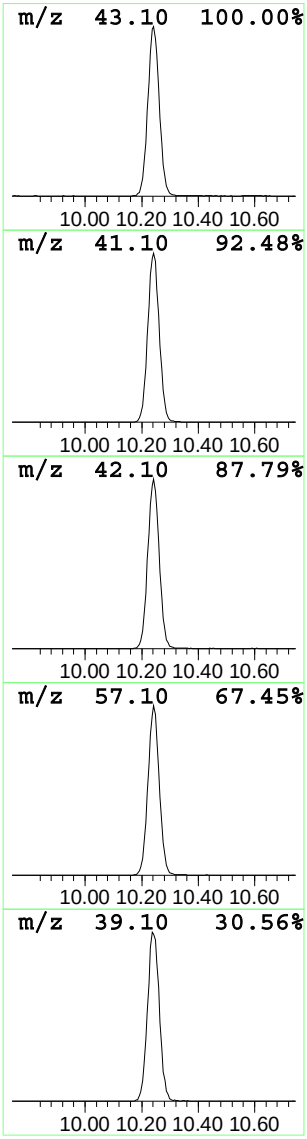
Peak Number 4 Butane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.243	54289.10 ppbv	1392500	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	Butane, 2-methyl-	72	C5H12	000078-78-4	83
4	Pentane	72	C5H12	000109-66-0	42
5	Pentane	72	C5H12	000109-66-0	40





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Operator : E G
Sample : 12090201-01A
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ALS Vial : 10 Sample Multiplier: 6400

Quant Method : M:\AIR M_METHODS\M12I29.M
Quant Title : TO-15 LA

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

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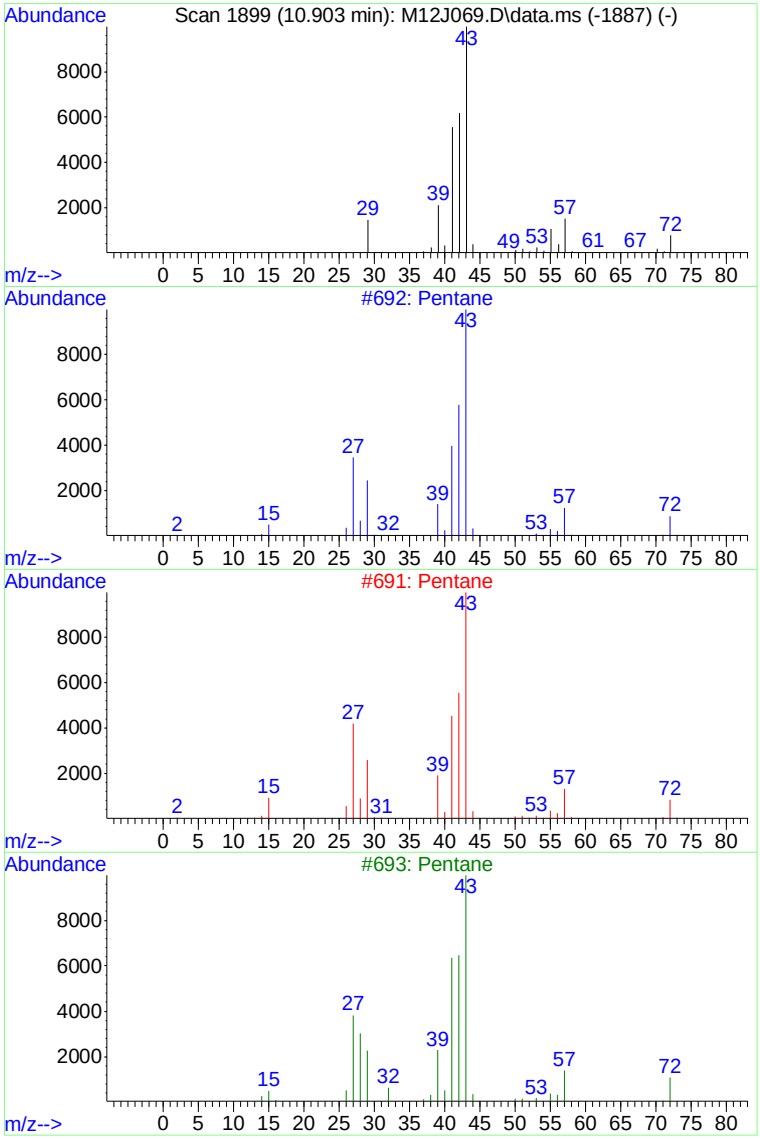
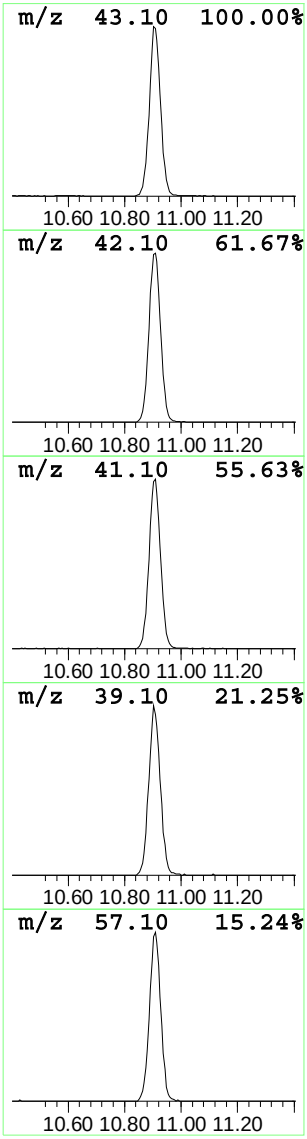
Peak Number 5 Pentane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.903	33596.10 ppbv	861732	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	86
4	Pentane	72	C5H12	000109-66-0	78
5	Pentane	72	C5H12	000109-66-0	47





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ALS Vial : 10 Sample Multiplier: 6400

Quant Method : M:\AIR M_METHODS\M12I29.M
Quant Title : TO-15 LA

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

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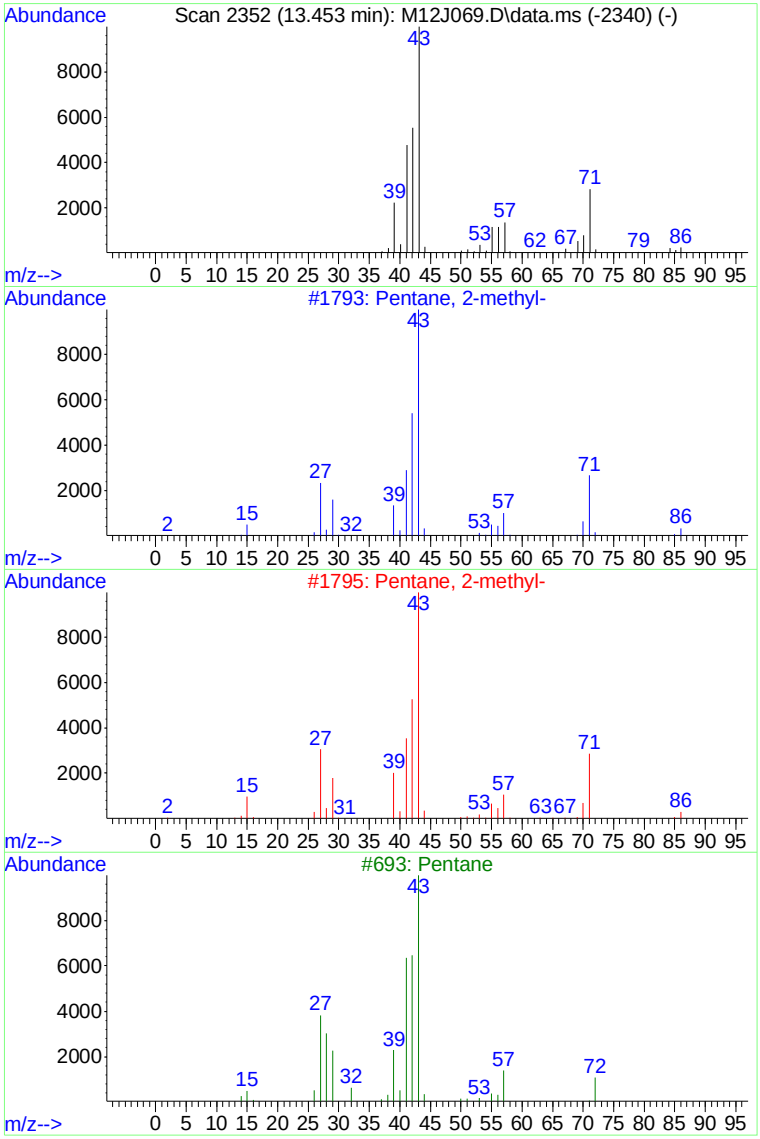
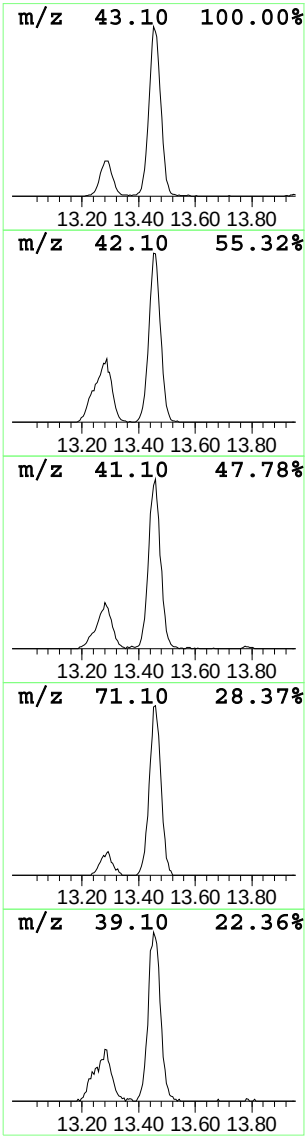
Peak Number 7 Pentane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.453	15769.80 ppbv	404493	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
3	Pentane	72	C5H12	000109-66-0	47
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	45
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	40





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Misc      : SAMP;TO-15 LDEQ
ALS Vial  : 10   Sample Multiplier: 6400

Quant Method : M:\AIR M\_METHODS\M12I29.M
Quant Title  : TO-15 LA

TIC Library    : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P
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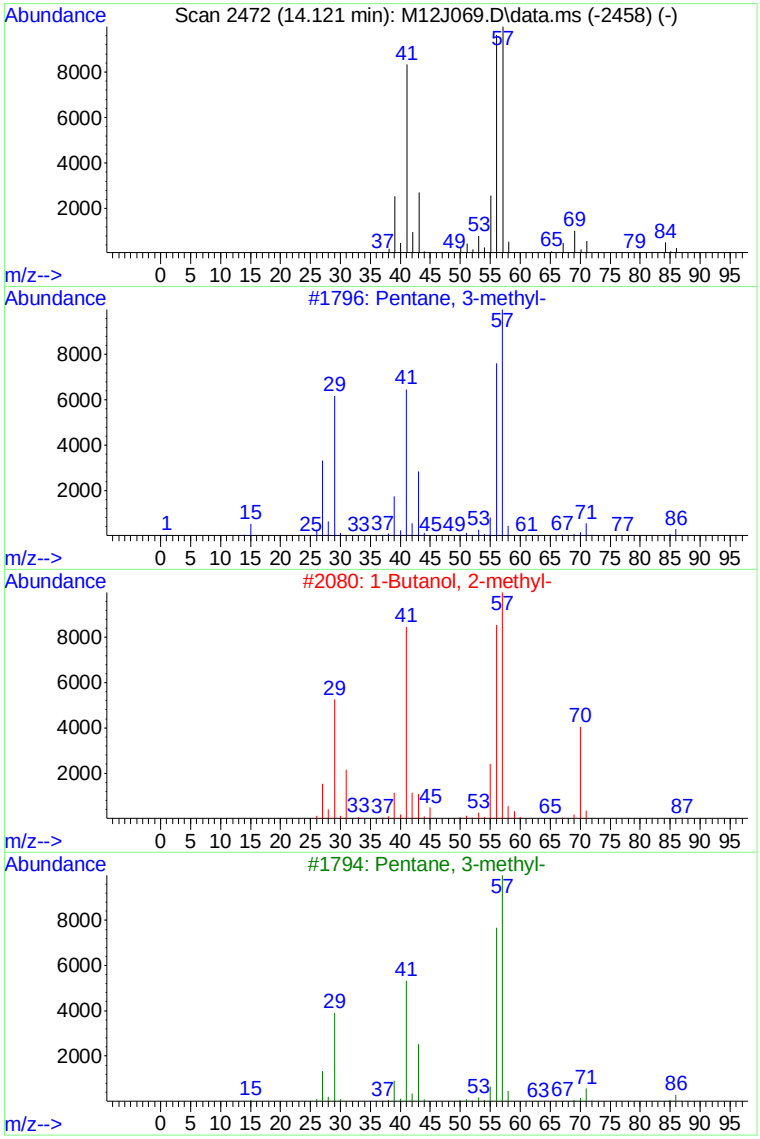
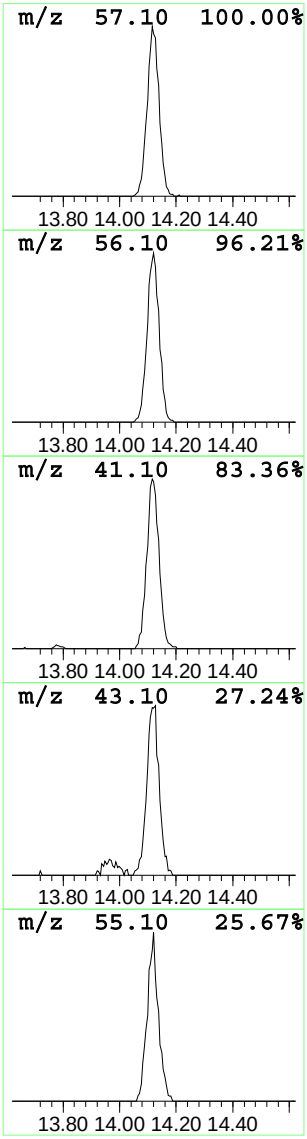
Peak Number 8 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.121	8513.91 ppbv	218380	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	80
2	1-Butanol, 2-methyl-	88	C5H12O	000137-32-6	64
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	64
4	Pentane, 3-methyl-	86	C6H14	000096-14-0	56
5	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	56





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Sample : 12090201-01A
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ALS Vial : 10 Sample Multiplier: 6400

Quant Method : M:\AIR M_METHODS\M12I29.M
Quant Title : TO-15 LA

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

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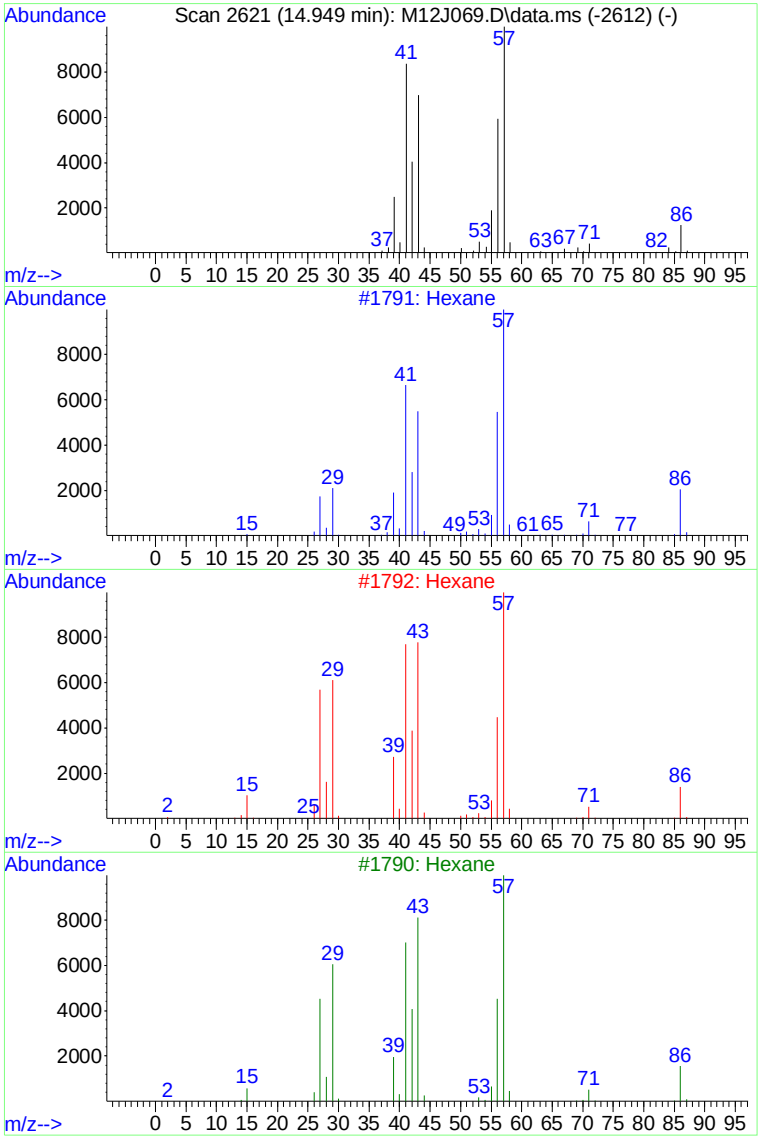
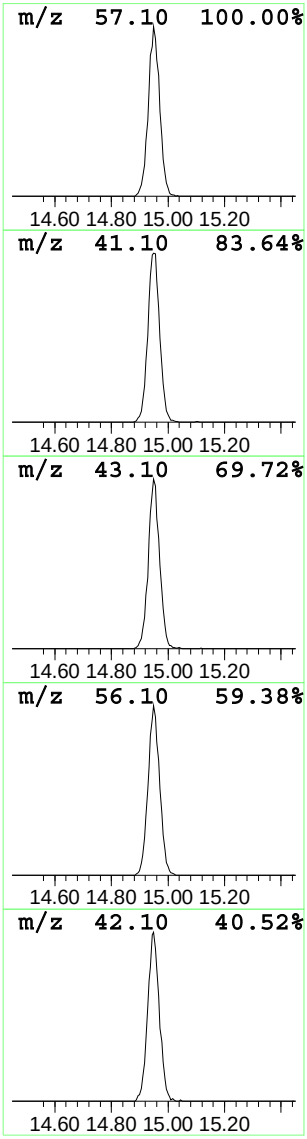
Peak Number 9 Hexane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.950	17166.10 ppbv	440307	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane	86	C6H14	000110-54-3	78
2	Hexane	86	C6H14	000110-54-3	72
3	Hexane	86	C6H14	000110-54-3	72
4	Hydroperoxide, hexyl	118	C6H14O2	004312-76-9	42
5	1-Aziridineethanol	87	C4H9NO	001072-52-2	38





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Misc      : SAMP;TO-15 LDEQ
ALS Vial  : 10   Sample Multiplier: 6400

Quant Method : M:\AIR M\_METHODS\M12I29.M
Quant Title  : TO-15 LA

TIC Library    : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P
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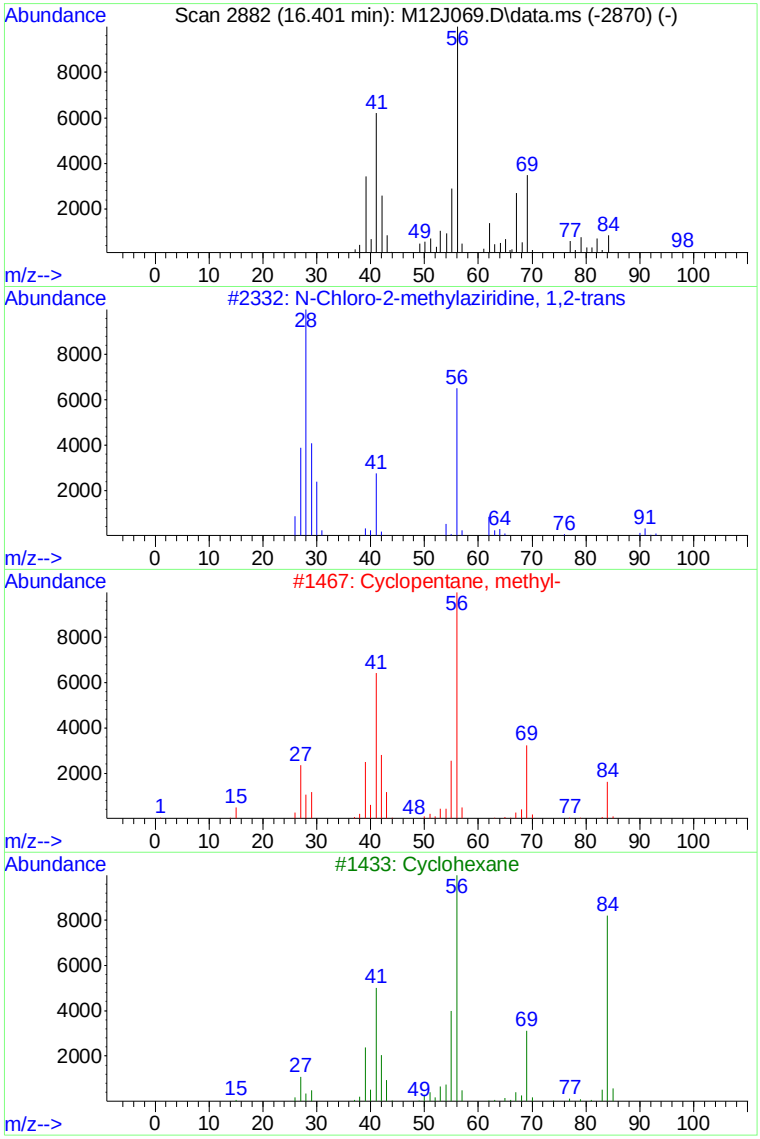
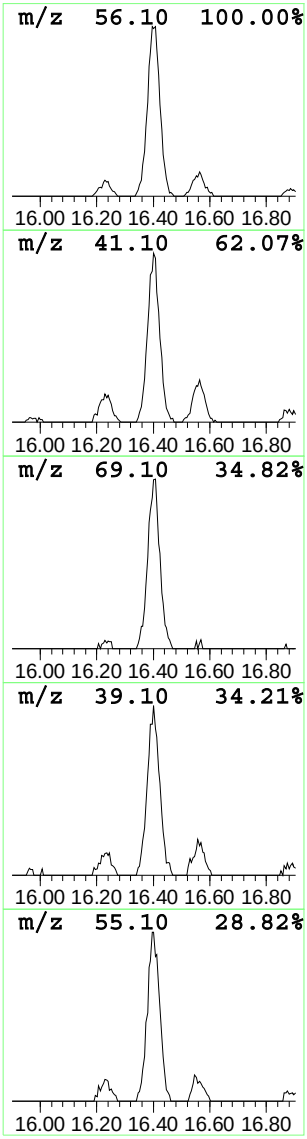
Peak Number 10 Cyclopentane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.401	7134.72 ppbv	183004	Bromochloromethane	14.838

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-Chloro-2-methylaziridine, 1,2-...	91	C3H6ClN	1000283-28-3	50
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	49
3	Cyclohexane	84	C6H12	000110-82-7	47
4	Cyclohexane	84	C6H12	000110-82-7	47
5	Cyclohexane	84	C6H12	000110-82-7	47





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Sample : 12090201-01A
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ALS Vial : 10 Sample Multiplier: 6400

Quant Method : M:\AIR M_METHODS\M12I29.M
Quant Title : TO-15 LA

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: RTEINT_D.P

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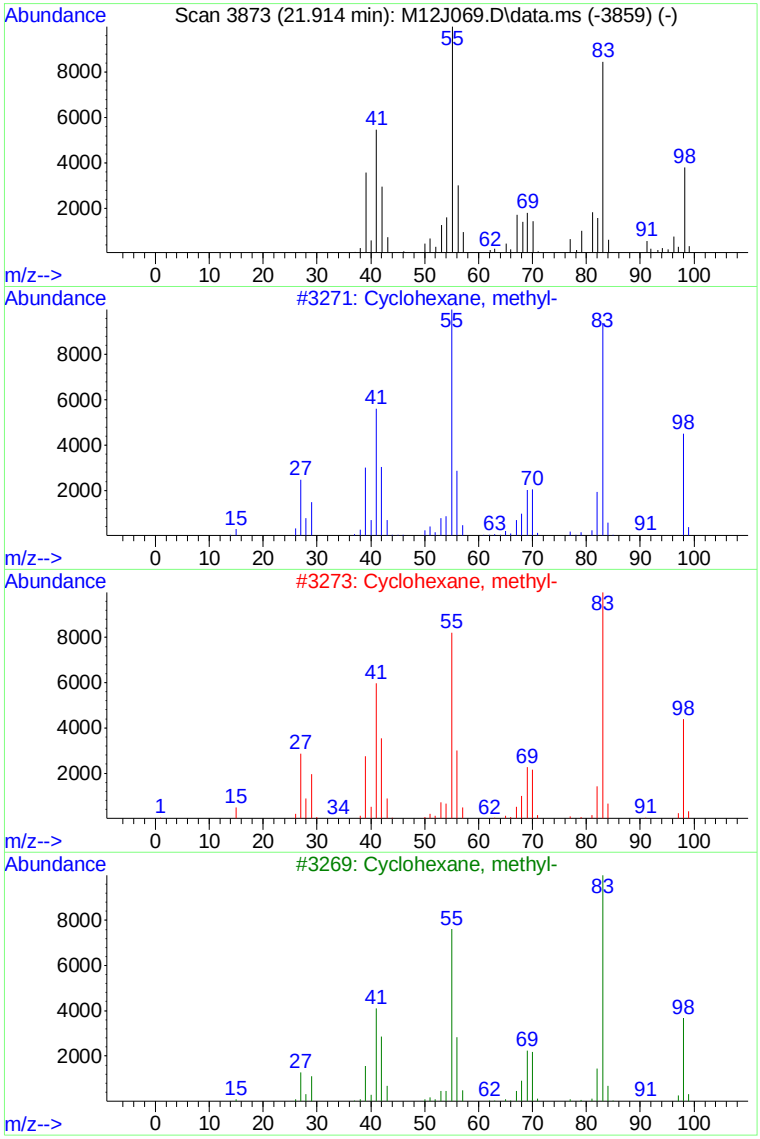
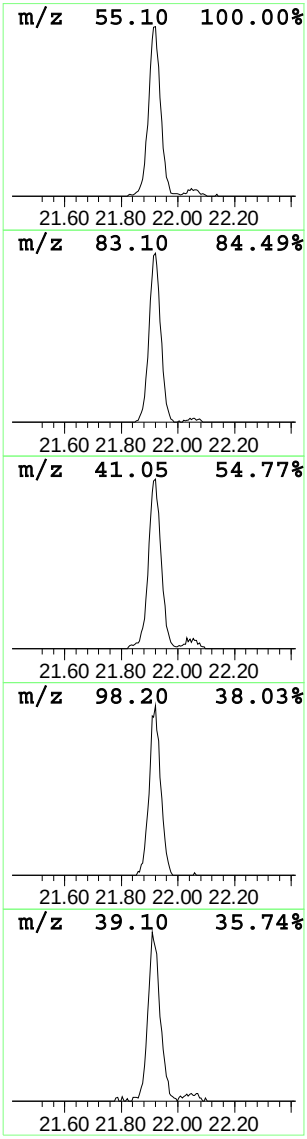
Peak Number 12 Cyclohexane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.914	7561.20 ppbv	339943	1,4-Difluorobenzene	18.526

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	93
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	87
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	81
4	2-Pentene, 4,4-dimethyl-	98	C7H14	026232-98-4	58
5	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	58