



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

Case Narrative for:  
**Louisiana Department of Environmental Quality**

Certificate of Analysis Number:  
**12090035**

<p><b>Report To:</b></p> <p>Louisiana Department of Environmental Quality          Randy Creighton          1209 Leesville Ave.</p> <p>Baton Rouge          LA          70802-          ph: (225) 219-3676      fax: (225) 219-9898</p>	<p><b>Project Name:</b>      AI#/AQS#/HWY 70 @ Gumbo St.</p> <p><b>Site:</b>                      HWY 70 @ Gumbo St.</p> <p><b>Site Address:</b></p> <p><b>PO Number:</b>              Contract# 687758</p> <p><b>State:</b>                      Louisiana</p> <p><b>State Cert. No.:</b>        02029</p> <p><b>Date Reported:</b>        9/7/2012</p>
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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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9/7/2012

Bernadette Fini

Date

Customer Service Manager

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



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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.

A handwritten signature in blue ink that reads 'Bernadette C. Fini'.

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9/7/2012

Bernadette Fini  
Customer Service Manager

Date

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

Version 2.1 - Modified February 11, 2011



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Louisiana Department of Environmental Quality

Certificate of Analysis Number:

**12090035**

**Report To:** Louisiana Department of Environmental Quality  
 Randy Creighton  
 1209 Leesville Ave.  
  
 Baton Rouge  
 LA  
 70802-  
 ph: (225) 219-3676      fax: (225) 219-9898

**Project Name:** AI#/AQS#/HWY 70 @ Gumbo St.  
**Site:** HWY 70 @ Gumbo St.  
**Site Address:**  
  
**PO Number:** Contract# 687758  
**State:** Louisiana  
**State Cert. No.:** 02029  
**Date Reported:** 9/7/2012  
**Field Sampler:** Mike Miller

**Fax To:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
HWY 70 @ Gumbo St., LA1043, 090212@1149	12090035-01	Air	09/02/2012 11:49	9/5/2012 4:00:00 PM		<input type="checkbox"/>

Bernadette Fini  
 Customer Service Manager

9/7/2012

Date

Richard Rodriguez  
 Laboratory Director

Ted Yen  
 Quality Assurance Officer



ACCUTEST GULF COAST  
 10165 HARWIN DRIVE  
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Client Sample ID: HWY 70 @ Gumbo St., LA1043, 0902 Collected: 09/02/2012 11:49 Lab Sample ID: 12090035-01

Site: HWY 70 @ Gumbo St.

Analyses/Method	DURATION					SUMMA SAMPLING		Units:	Hours
Parameter		Result	Qual	MDL	PQL	Dil. Factor	Date Analyzed	Analyst	Seq. #
Duration		0.008		0	0	1	09/06/12 0:00	BF	5817934

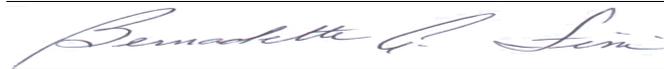
**Bernadette Fini**  
**Customer Service Manager**

**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

**Client Sample ID:** HWY 70 @ Gumbo St., LA1043, 0902 **Collected:** 09/02/2012 11:49 **Lab Sample ID:** 12090035-01

**Site:** HWY 70 @ Gumbo St.

Analyses/Method Parameter	TARGET TOXIC COMPOUNDS IN AMBIENT AIR BY GC/MS				TO-15_LDEQ		Units:	ppbv	
	Result	Qual	MDL	PQL	Dil. Factor	Date Analyzed	Analyst	Seq. #	
1,1,1-Trichloroethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,1,2,2-Tetrachloroethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,1,2-Trichloroethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,1-Dichloroethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,1-Dichloroethene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,2,4-Trichlorobenzene	0.01	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,2,4-Trimethylbenzene	0.02	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,2-Dibromoethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,2-Dichloroethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,2-Dichloropropane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,3,5-Trimethylbenzene	0.01	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
1,3-Butadiene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
2-Butanone	0.15	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
2-Hexanone	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
4-Methyl-2-pentanone	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Acetone	3.51		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Acetonitrile	0.14	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Acrylonitrile	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Allyl chloride	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Benzene	0.08	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Benzyl chloride	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Bromomethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Carbon disulfide	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Carbon tetrachloride	0.09	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Chloroacetonitrile	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Chlorobenzene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Chlorobutane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Chloroethane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Chloroform	0.01	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Chloromethane	0.65		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
cis-1,2-Dichloroethylene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
cis-1,3-dichloropropylene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Diethyl ether	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Ethyl methacrylate	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Ethylbenzene	0.01	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Freon 11	0.24	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	



**Bernadette Fini**

**Customer Service Manager**

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 MI - Matrix Interference

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**Client Sample ID:** HWY 70 @ Gumbo St., LA1043, 0902 **Collected:** 09/02/2012 11:49 **Lab Sample ID:** 12090035-01

**Site:** HWY 70 @ Gumbo St.

Analyses/Method Parameter	TARGET TOXIC COMPOUNDS IN AMBIENT AIR BY GC/MS				TO-15_LDEQ		Units:	ppbv	
	Result	Qual	MDL	PQL	Dil. Factor	Date Analyzed	Analyst	Seq. #	
Freon 113	0.08	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Freon 114	0.02	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Freon 12	0.53		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Hexachlorobutadiene	0.01	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
m+p-Xylenes	0.04	J	< 0.2	1	1	09/07/12 0:53	E_G	5817961	
m-Dichlorobenzene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Methacrylonitrile	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Methyl acrylate	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Methyl methacrylate	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Methyl tert-butyl ether	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Methylene chloride	0.12	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Nitrobenzene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Nitropropane	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
o-Dichlorobenzene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
o-Xylene	0.02	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
p-Dichlorobenzene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Styrene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Tetrachloroethylene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Tetrahydrofuran	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Toluene	0.10	J	< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
trans-1,3-Dichloropropene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Trichloroethylene	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Vinyl chloride	ND		< 0.2	0.5	1	09/07/12 0:53	E_G	5817961	
Surr: 4-Bromofluorobenzene	96.90		< 0.2	% 70-130	1	09/07/12 0:53	E_G	5817961	



**Bernadette Fini**  
**Customer Service Manager**

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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#/HWY 70 @ Gumbo St.

Analysis: Duration  
 Method: Summa Sampling

WorkOrder: 12090035  
 Lab Batch ID: R321661

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
12090035-01A	HWY 70 @ Gumbo St., LA104

**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  
 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

MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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  
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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/HWY 70 @ Gumbo St.

Analysis: Target Toxic Compounds in Ambient Air by GC/MS  
 Method: TO-15\_LDEQ

WorkOrder: 12090035  
 Lab Batch ID: R321663

Dry Air Blank

Samples in Analytical Batch:

RunID: M\_120906A-5817951 Units: ppbv  
 Analysis Date: 09/06/2012 12:57 Analyst: E\_G

Lab Sample ID: 12090035-01A  
 Client Sample ID: HWY 70 @ Gumbo St., LA104

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	0.038	J	0.20	0
1,2,4-Trimethylbenzene	0.0046	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	0.0031	J	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	0.21	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	0.056	J	0.20	0
Freon 114	ND		0.20	0
Freon 12	ND		0.20	0
Hexachlorobutadiene	0.0076	J	0.20	0
m+p-Xylenes	ND		0.40	0

**Qualifiers:** ND/U - Not Detected at the MDL  
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Version 2.1 - Modified February 11, 2011

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/HWY 70 @ Gumbo St.

Analysis: Target Toxic Compounds in Ambient Air by GC/MS  
Method: TO-15\_LDEQ

WorkOrder: 12090035  
Lab Batch ID: R321663

Dry Air Blank

RunID: M\_120906A-5817951 Units: ppbv  
Analysis Date: 09/06/2012 12:57 Analyst: E\_G

Analyte	Result	Qual	Rep Limit	MDL
m-Dichlorobenzene	0.0077	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	0.074	J	0.20	0
Nitrobenzene	0.06	J	0.20	0
Nitropropane	ND		0.20	0
o-Dichlorobenzene	ND		0.20	0
o-Xylene	ND		0.20	0
p-Dichlorobenzene	0.0089	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	93.5		70-130	0

Humid Air Blank

RunID: M\_120906A-5817952 Units: ppbv  
Analysis Date: 09/06/2012 14:04 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	0.0205	J	0.20
1,2,4-Trimethylbenzene	0.00317	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	ND		0.20

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Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/HWY 70 @ Gumbo St.

Analysis: Target Toxic Compounds in Ambient Air by GC/MS  
 Method: TO-15\_LDEQ

WorkOrder: 12090035  
 Lab Batch ID: R321663

Humid Air Blank

RunID: M\_120906A-5817952 Units: ppbv  
 Analysis Date: 09/06/2012 14:04 Analyst: E\_G

Analyte	Result	Qual	Rep Limit
1,3-Butadiene	ND		0.20
2-Butanone	0.0687	J	0.20
2-Hexanone	ND		0.20
4-Methyl-2-pentanone	ND		0.20
Acetone	0.174	J	1.0
Acetonitrile	ND		0.20
Acrylonitrile	ND		0.20
Allyl chloride	ND		0.20
Benzene	ND		0.20
Benzyl chloride	ND		0.20
Bromomethane	ND		0.20
Carbon disulfide	ND		0.20
Carbon tetrachloride	ND		0.20
Chloroacetonitrile	ND		0.20
Chlorobenzene	ND		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	ND		0.20
m+p-Xylenes	ND		0.40
m-Dichlorobenzene	ND		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	0.071	J	0.20
Nitrobenzene	0.0359	J	0.20
Nitropropane	ND		0.20
o-Dichlorobenzene	ND		0.20
o-Xylene	0.00268	J	0.20
p-Dichlorobenzene	ND		0.20

**Qualifiers:** ND/U - Not Detected at the MDL  
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 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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.

**Quality Control Report**

**Louisiana Department of Environmental Quality**

AI#/AQS#/HWY 70 @ Gumbo St.

**Analysis:** Target Toxic Compounds in Ambient Air by GC/MS  
**Method:** TO-15\_LDEQ

**WorkOrder:** 12090035  
**Lab Batch ID:** R321663

Humid Air Blank

RunID: M\_120906A-5817952 Units: ppbv  
Analysis Date: 09/06/2012 14:04 Analyst: E\_G

Analyte	Result	Qual	Rep Limit
Styrene	ND		0.20
Tetrachloroethylene	ND		0.20
Tetrahydrofuran	ND		0.20
Toluene	0.0112	J	0.20
trans-1,3-Dichloropropene	ND		0.20
Trichloroethylene	ND		0.20
Vinyl chloride	ND		0.20
Surr: 4-Bromofluorobenzene	96.7		70-130

Laboratory Control Sample (LCS)

RunID: M\_120906A-5817950 Units: ppbv  
Analysis Date: 09/06/2012 10:44 Analyst: E\_G

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,1,1-Trichloroethane	7.50	7.28	97.0		70	130
1,1,2,2-Tetrachloroethane	7.50	6.78	90.4		70	130
1,1,2-Trichloroethane	7.50	6.86	91.4		70	130
1,1-Dichloroethane	7.50	7.13	95.1		70	130
1,1-Dichloroethene	7.50	7.08	94.4		70	130
1,2,4-Trichlorobenzene	7.50	7.94	106		70	130
1,2,4-Trimethylbenzene	7.50	7.55	101		70	130
1,2-Dibromoethane	7.50	7.17	95.6		70	130
1,2-Dichloroethane	7.50	7.19	95.9		70	130
1,2-Dichloropropane	7.50	6.76	90.1		70	130
1,3,5-Trimethylbenzene	7.50	7.45	99.3		70	130
1,3-Butadiene	7.50	7.21	96.2		70	130
2-Butanone	7.50	7.08	94.4		70	130
2-Hexanone	7.50	6.55	87.3		70	130
4-Methyl-2-pentanone	7.50	6.29	83.8		70	130
Acetone	7.50	7.83	104		70	130
Acetonitrile	7.50	6.83	91.1		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  
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

MI - Matrix Interference  
D - Recovery Unreportable due to Dilution  
\* - Recovery Outside Advisable QC Limits

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.

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/HWY 70 @ Gumbo St.

Analysis: Target Toxic Compounds in Ambient Air by GC/MS  
 Method: TO-15\_LDEQ

WorkOrder: 12090035  
 Lab Batch ID: R321663

Laboratory Control Sample (LCS)

RunID: M\_120906A-5817950 Units: ppbv  
 Analysis Date: 09/06/2012 10:44 Analyst: E\_G

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Acrylonitrile	7.50	7.84	104		70	130
Allyl chloride	7.50	7.04	93.8		70	130
Benzene	7.50	7.26	96.8		70	130
Benzyl chloride	7.50	7.80	104		70	130
Bromomethane	7.50	7.89	105		70	130
Carbon disulfide	7.50	7.46	99.4		70	130
Carbon tetrachloride	7.50	7.26	96.8		70	130
Chloroacetonitrile	7.50	7.28	97.1		70	130
Chlorobenzene	7.50	7.05	94.0		70	130
Chlorobutane	7.50	7.18	95.8		70	130
Chloroethane	7.50	7.60	101		70	130
Chloroform	7.50	7.10	94.7		70	130
Chloromethane	7.50	7.40	98.7		70	130
cis-1,2-Dichloroethylene	7.50	7.07	94.3		70	130
cis-1,3-dichloropropylene	7.50	7.00	93.3		70	130
Diethyl ether	7.50	8.01	107		70	130
Ethyl methacrylate	7.50	7.06	94.1		70	130
Ethylbenzene	7.50	7.25	96.6		70	130
Freon 11	7.50	7.77	104		70	130
Freon 113	7.50	7.07	94.2		70	130
Freon 114	7.50	8.98	120		70	130
Freon 12	7.50	7.95	106		70	130
Hexachlorobutadiene	7.50	7.58	101		70	130
m+p-Xylenes	15.0	14.3	95.1		70	130
m-Dichlorobenzene	7.50	7.62	102		70	130
Methacrylonitrile	7.50	8.03	107		70	130
Methyl acrylate	7.50	7.67	102		70	130
Methyl methacrylate	7.50	7.54	101		70	130
Methyl tert-butyl ether	7.50	8.13	108		70	130
Methylene chloride	7.50	6.66	88.7		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  
 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

MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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.

**Quality Control Report**

**Louisiana Department of Environmental Quality**

AI#/AQS#/HWY 70 @ Gumbo St.

**Analysis:** Target Toxic Compounds in Ambient Air by GC/MS  
**Method:** TO-15\_LDEQ

**WorkOrder:** 12090035  
**Lab Batch ID:** R321663

**Laboratory Control Sample (LCS)**

RunID: M\_120906A-5817950 Units: ppbv  
Analysis Date: 09/06/2012 10:44 Analyst: E\_G

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Nitrobenzene	7.50	7.16	95.5		70	130
Nitropropane	7.50	6.54	87.1		70	130
o-Dichlorobenzene	7.50	7.57	101		70	130
o-Xylene	7.50	7.17	95.7		70	130
p-Dichlorobenzene	7.50	7.85	105		70	130
Styrene	7.50	7.45	99.4		70	130
Tetrachloroethylene	7.50	7.15	95.3		70	130
Tetrahydrofuran	7.50	7.22	96.2		70	130
Toluene	7.50	7.18	95.7		70	130
trans-1,3-Dichloropropene	7.50	8.34	111		70	130
Trichloroethylene	7.50	6.71	89.5		70	130
Vinyl chloride	7.50	7.72	103		70	130
Surr: 4-Bromofluorobenzene	100	101	101		70	130

**Sample Duplicate**

Original Sample: 12090029-01  
RunID: M\_120906A-5817953 Units: ppbv  
Analysis Date: 09/06/2012 15:17 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	0.02	0.01	J	0	25
1,2,4-Trimethylbenzene	0.02	0.03	J	0	25
1,2-Dibromoethane	ND	ND		0	25

**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  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
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Version 2.1 - Modified February 11, 2011

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/HWY 70 @ Gumbo St.

Analysis: Target Toxic Compounds in Ambient Air by GC/MS  
 Method: TO-15\_LDEQ

WorkOrder: 12090035  
 Lab Batch ID: R321663

Sample Duplicate

Original Sample: 12090029-01  
 RunID: M\_120906A-5817953 Units: ppbv  
 Analysis Date: 09/06/2012 15:17 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	0.01	0.01	J	0	25
1,3-Butadiene	ND	ND		0	25
2-Butanone	0.12	0.11	J	0	25
2-Hexanone	ND	ND		0	25
4-Methyl-2-pentanone	ND	ND		0	25
Acetone	4.66	4.59		1.64	25
Acetonitrile	0.07	0.07	J	0	25
Acrylonitrile	ND	ND		0	25
Allyl chloride	ND	ND		0	25
Benzene	0.18	0.18	J	0	25
Benzyl chloride	ND	ND		0	25
Bromomethane	ND	ND		0	25
Carbon disulfide	0.04	0.04	J	0	25
Carbon tetrachloride	0.09	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	0.01	0.01	J	0	25
Chloromethane	0.79	0.78		1.2	25
cis-1,2-Dichloroethylene	ND	ND		0	25
cis-1,3-dichloropropylene	ND	ND		0	25
Diethyl ether	ND	ND		0	25
Ethyl methacrylate	ND	ND		0	25
Ethylbenzene	0.02	0.02	J	0	25
Freon 11	0.24	0.24	J	0	25

**Qualifiers:** ND/U - Not Detected at the MDL  
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 J - Estimated value between MDL and PQL  
 B - Analyte In Blank At Or Above 2 ppbC/For TO-15 0.2 ppbv  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
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Version 2.1 - Modified February 11, 2011

Quality Control Report

Louisiana Department of Environmental Quality

AI#/AQS#/HWY 70 @ Gumbo St.

Analysis: Target Toxic Compounds in Ambient Air by GC/MS  
 Method: TO-15\_LDEQ

WorkOrder: 12090035  
 Lab Batch ID: R321663

Sample Duplicate

Original Sample: 12090029-01  
 RunID: M\_120906A-5817953 Units: ppbv  
 Analysis Date: 09/06/2012 15:17 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	0.53	0.53		0.41	25
Hexachlorobutadiene	0.01	0.01	J	0	25
m+p-Xylenes	0.06	0.07	J	0	25
m-Dichlorobenzene	ND	ND		0	25
Methacrylonitrile	ND	ND		0	25
Methyl acrylate	ND	ND		0	25
Methyl methacrylate	ND	ND		0	25
Methyl tert-butyl ether	ND	ND		0	25
Methylene chloride	0.22	0.22	J	0	25
Nitrobenzene	ND	ND		0	25
Nitropropane	ND	ND		0	25
o-Dichlorobenzene	ND	ND		0	25
o-Xylene	0.02	0.03	J	0	25
p-Dichlorobenzene	0.01	0.01	J	0	25
Styrene	0.06	0.06	J	0	25
Tetrachloroethylene	ND	ND		0	25
Tetrahydrofuran	ND	ND		0	25
Toluene	0.23	0.23	J	0	25
trans-1,3-Dichloropropene	ND	ND		0	25
Trichloroethylene	ND	ND		0	25
Vinyl chloride	ND	ND		0	25
Surr: 4-Bromofluorobenzene	95.6	96.6		1.012	30

**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  
 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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Version 2.1 - Modified February 11, 2011

*Sample Receipt Checklist  
And  
Chain of Custody*



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

**Sample Receipt Checklist**

Workorder:	12090035	Received By:	E_G
Date and Time Received:	9/5/2012 4:00:00 PM	Carrier name:	ACCUTEST
Temperature:	25.4°C	Chilled by:	Not Chilled

- |   |   |  |   |
|---|---|--|---|
| <b>1. Shipping container/cooler in good condition?</b>  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>                      |
| <b>2. Custody seals intact on shipping container/cooler?</b>  | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/>           |
| <b>3. Custody seals intact on sample bottles?</b>   | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/>           |
| <b>4. Chain of custody present?</b>   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>5. Chain of custody signed when relinquished and received?</b>   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>6. Chain of custody agrees with sample labels?</b><br><small>No information listed on tag (sample ID , collection date , final pressure). Accutest logged in sample information as per chain of custody.</small> | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |   |
| <b>7. Samples in proper container/bottle?</b>   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>8. Sample containers intact?</b>   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>9. Sufficient sample volume for indicated test?</b>  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>10. All samples received within holding time?</b>  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>11. Container/Temp Blank temperature in compliance?</b>  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |   |
| <b>12. Water - VOA vials have zero headspace?</b>   | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | VOA Vials Not Present <input checked="" type="checkbox"/> |
| <b>13. Water - Preservation checked upon receipt (except VOA*)?</b>   | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Applicable <input checked="" type="checkbox"/>        |

\*VOA Preservation Checked After Sample Analysis

Accutest Representative: <input style="width:95%;" type="text"/>	Contact Date & Time: <input style="width:95%;" type="text"/>
Client Name Contacted: <input style="width:95%;" type="text"/>	

**Non Conformance Issues:**

**Client Instructions:**

12090035

"Grab" Sample Collection Worksheet Louisiana Department of Environmental Quality Surveillance Division			
Date of Collection: 9/2/12		Canister Number: LA 1043	
Collected By:		Sample Location: Hwy 70/Combo	
Print Name: Mike K Miller		(GPS) Latitude:	
Signature: <i>[Signature]</i>		(GPS) Longitude:	
Phone No.: 225-219-2342			
Witness:		Witness:	
Analysis Requested:			
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: 11:49	End Time: 11:49	Total Time (min): GRAB	
NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)			
M-Hi BA12 099-513913 LEL 0% O <sub>2</sub> 20.9 H <sub>2</sub> S ppm 0; VOC ppm 0.0			
*** (draw map on back of sheet showing sampling location and wind direction) ***			
Chain of Custody Record			
Relinquished By:		Received By:	
Name: Mike Miller		Name: Louis Martin	
Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
Date: 9/4/12 Time: 9:31		Date: 9/4/12 Time: 9:32	
Name: Louis Martin		Name: RE Guillet	
Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
Date: 9/4/12 Time: 10:00		Date: 9.5.12 Time: 1245	
Name:		Name: Greg Surr	
Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
Date: 9-5-12 Time: 1600		Date: 9-5-12 Time: 1600	
Name:		Name: Eddie Cost	
Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
Date: 9-5-12 Time: 1630		Date: 9-5-12 Time: 1630	

Form Rev. 1

*[Signature]*  
9-5-12 2005

Elizabeth Gonzalez  
Revised 2/14/2008  
9/5/12 20:05

**Volatile Organic (TO-15)  
Library Search (TIC's)**

Tentatively Identified Compound (LSC) summary

Data Path : M:\AIR\_M\2A12-0906\  
 Data File : M12I047.D  
 Acq On : 7 Sep 2012 12:53 am  
 Operator : E\_G  
 Sample : 12090035-01A  
 Misc : SAMP;TO-15\_LDEQ  
 ALS Vial : 20 Sample Multiplier: 1

Quant Method : M:\AIR\_M\METHODS\M12H18.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
Ethyl alcohol	9.610	1.1	ppbv	168971	1	14.844	960540	6.3
1,3-Butadiene, ...	11.063	2.2	ppbv	335197	1	14.844	960540	6.3

Library Search Compound Report

Data Path : M:\AIR M\2A12-0906\  
 Data File : M12I047.D  
 Acq On : 7 Sep 2012 12:53 am  
 Operator : E G  
 Sample : 12090035-01A  
 Misc : SAMP;TO-15 LDEQ  
 ALS Vial : 20 Sample Multiplier: 1

Quant Method : M:\AIR M\\_METHODS\M12H18.M  
 Quant Title : TO-15 LA

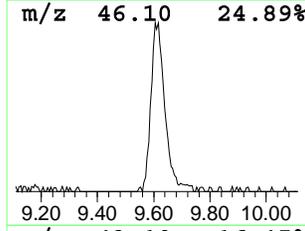
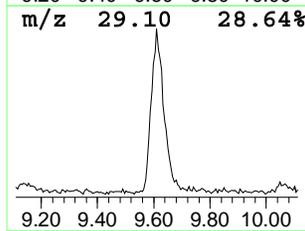
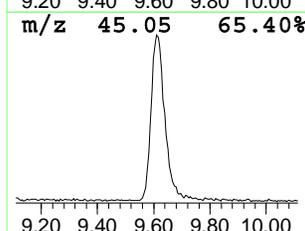
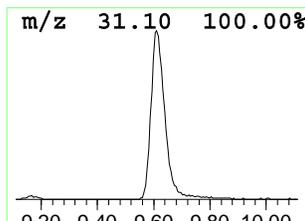
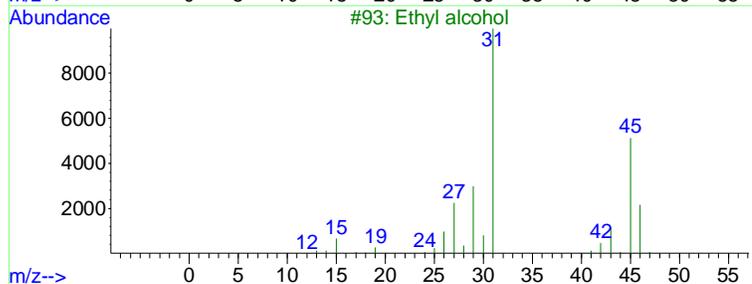
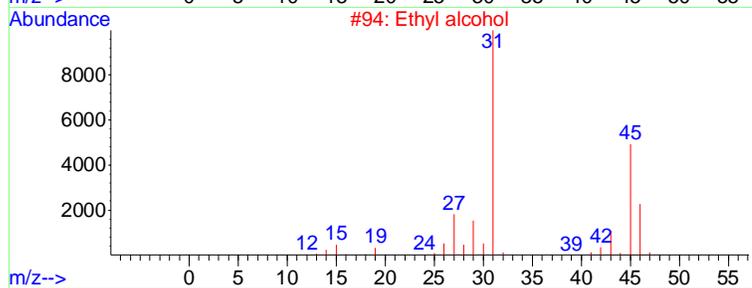
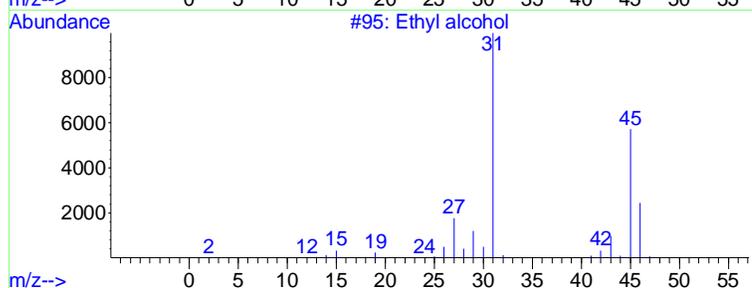
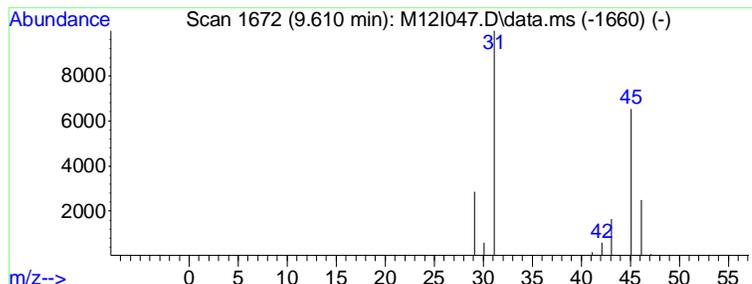
TIC Library : C:\Database\NIST05.L  
 TIC Integration Parameters: RTEINT\_D.P

\*\*\*\*\*  
 Peak Number 2 Ethyl alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.610	1.10 ppbv	168971	Bromochloromethane	14.844

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl alcohol	46	C2H6O	000064-17-5	90
2	Ethyl alcohol	46	C2H6O	000064-17-5	83
3	Ethyl alcohol	46	C2H6O	000064-17-5	83
4	Dimethyl ether	46	C2H6O	000115-10-6	9
5	Formamide	45	CH3NO	000075-12-7	4



Library Search Compound Report

Data Path : M:\AIR M\2A12-0906\  
 Data File : M12I047.D  
 Acq On : 7 Sep 2012 12:53 am  
 Operator : E G  
 Sample : 12090035-01A  
 Misc : SAMP;TO-15 LDEQ  
 ALS Vial : 20 Sample Multiplier: 1

Quant Method : M:\AIR M\\_METHODS\M12H18.M  
 Quant Title : TO-15 LA

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

\*\*\*\*\*  
 Peak Number 4 1,3-Butadiene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.063	2.18 ppbv	335197	Bromochloromethane	14.844

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Butadiene, 2-methyl-	68	C5H8	000078-79-5	94
2	1,3-Pentadiene, (Z)-	68	C5H8	001574-41-0	94
3	1,3-Butadiene, 2-methyl-	68	C5H8	000078-79-5	94
4	1,3-Pentadiene	68	C5H8	000504-60-9	94
5	1,3-Pentadiene, (E)-	68	C5H8	002004-70-8	94

