CLOSURE
INDOOR AIR SAMPLING
546 East South Street

TWIGG CORPORATION
659 EAST YORK STREET
MARTINSVILLE, INDIANA 46151

VRP Site # 6970506
BCA Project No. 7403/99-138
March 22, 2012

Prepared for Twigg Corporation by:
Bruce Carter Associates, LLC

David King, LPG
Geologist
Project Manager

Bruce Carter Associates, L.L.C.

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Bruce Carter Associates, L.L.C.
ENVIRONMENTAL CONSULTANTS
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1.0 INTRODUCTION

At the request of Twigg Corporation (Twigg) Bruce Carter Associates, LLC. (BCA) has conducted indoor air sampling at the residential structure located at the common address 546 East South Street in Martinsville, Indiana (Figure 1). This residence is located adjoining the Twigg property to the west.

This indoor air sampling project is a follow up to sampling events at the same residence from late 2008 to early 2010. The investigation was performed for compliance with Voluntary Remediation Program (VRP) requirements to investigate vapor intrusion associated with a groundwater plume consisting of chlorinated aliphatic hydrocarbons (CAHs). In the 2008 sampling tetrachloroethene (PCE) was detected in the living space slightly above the 2006 IDEM Draft 30 Year (Chronic) action level for residential properties (but below the now-current 2012 Remediation Closure Guide Screening Level. A follow up investigation in 2009 found that PCE exceeded the Residential 30 year action level in the air sample taken from the crawl space, but none was detected in the living space. The residence was occupied during the 2008-2009 investigations. As a result of the investigation, a vapor intrusion mitigation system (radon system) was installed at 546 East South Street residence to remove vapors from the crawl space. The system was installed and began operating in January 2010 and no PCE was detected in post-installation samples from the crawl space and living space collected in March 2010. The system operated until January 2012.

The purpose of this follow up sampling was to demonstrate completion of the remediation for IDEM approval of the termination of the VIM process. The timing of the sampling took advantage of the fact that the residence was unoccupied to perform sampling during a time when the building was empty. Prior to placing the sampling canisters the soil gas mitigation system was turned off.

2.0 METHODOLOGY

2.1 Air Sampling and Analysis Procedures

Air samples were collected following IDEM's Draft Vapor Intrusion Pilot Program Guidance, Part B, for Chlorinated Compounds. Indoor air, crawl space, and ambient background air were sampled and analyzed for chlorinated aliphatic hydrocarbons (CAHs) in accordance with US EPA method TO-15. Ambient indoor samples were collected using 6-liter Summa canisters prepared and provided by PACE Analytical Services, Inc.

A Summa canister is an airtight, stainless-steel container with an inner surface that has been electro polished and chemically deactivated. The process of chemical deactivation is the "Summa" process. Summa canisters range in volume from 1 liter to greater than 15 liters. The 6-liter canister commonly is used to collect samples of ambient air while the 1-liter canister commonly is used for soil gas. A laboratory evacuates a Summa canister to a high vacuum (at least -28 inches of mercury). A Summa canister can hold the high vacuum for up to 30 days. The advantage of the Summa canister is that the air being sampled is "drawn" into the canister by the high vacuum thereby eliminating the need for pumps or other powered equipment. A "Flow control valve" is used to control the rate at which an air sample is drawn into a Summa canister. The flow controller, which is stainless steel, typically is adjusted so that the air can be sampled for a predetermined time. The sample time used at the subject site with the 6-liter canisters is 24 hours.

Per IDEM guidance, a survey of the residence was conducted the day before sampling, on February 13, 2012 to identify and remove any potential background contamination sources such as paint cans, household cleaners, and others prior to the sampling event. The residence was unoccupied and empty of contents. Some glass cleaner and new brooms and mops were placed in the garage during sampling.

Indoor air samples were collected on February 14 and February 15, 2012. Two Summa Canisters (sample and duplicate) were placed in the first floor living space, one canister was placed in the crawl space, and one canister was placed at each of the up-wind and down-wind outdoor locations. The canister inlet, consisting of a length of Teflon tubing, was placed at breathing height - roughly 5

to 5.5 feet above the floor except in the crawl space where the tube to the inlet was open at about 18-inches above the floor.

Quality Control/Quality Assurance (QA/QC) sampling procedures were undertaken for this project. The QA/QC samples were taken simultaneously with the February 14-15 2012 samples and included RISC Level IV QA/QC package with field duplicates, up-wind and down-wind background samples.

The vapor intrusion mitigation system was turned off two days before sampling began. The house and crawl space was closed by shutting windows and doors for at least two days before the test began and the windows and doors were kept shut during the sample collection.

2.2 Laboratory Analysis

All air samples were analyzed by PACE Analytical for CAHs by EPA Method TO-15, including Tetrachloroethene (PCE), Trichloroethane (TCA), the degradation products of PCE: Trichloroethene (TCE), cis-Dichloroethene (c-DCE), and Vinyl Chloride (VC), and the degradation products of TCA: Dichloroethane (DCA), 1,1-Dichloroethene (1,1-DCE), and Chloroethane (CA). Laboratory QA/QC met the requirements of the TO-15 method and a RISC Level IV QA/QC report package was included with the sample results. The analytical laboratory report is included in Appendix A.

2.3 Physical Setting/Subsurface Conditions

The topography of the neighborhood is essentially level. Surface drainage from the site is to the southeast approximately 1500 feet via storm sewers to Sartor Ditch, which flows 1.5 miles southwest to Indian Creek and then to the White River.

Soil near the site consists of Martinsville loam which is characterized as nearly level, deep, well-drained soil on outwash plains (USDA,1981). The soil is typically a brown loam underlain by a clay loam and a sandy loam to a depth of approximately five feet. BCA investigations typically encountered a layer of finer-grained soil (typically silty sand, but also clayey sand and some sandy lean clay or silt) occurs near the surface. The ground surface in covered with pavement (roads and parking lots), buildings, topsoil/grass and gravel. The surficial silty sand/sandy silt layer varies in thickness from zero to approximately 12 feet and is generally 6-10 feet thick.

Underlying soils near the site are Holocene age alluvial deposits of sand, gravel and silt, and Wisconsinin age outwash deposits, chiefly of sand and gravel (IDNR, 1989). Unconsolidated deposits near the site are reported to a depth of approximately 100 feet (INDR, 1983) below ground surface and are underlain by Mississippian Age Borden Group siltstone and shale (INDR, 1987 and USGS, 1994). Well logs obtained from the IDNR for Martinsville show primarily sand and gravel deposits to depths of approximately 100 feet underlain by shale bedrock. Several logs also identify isolated layers of fine grained material within the sand and gravel. Bedrock was encountered in one boring at a depth of 100-feet.

The aquifer beneath the site is part of a surficial sand and gravel aquifer which extends throughout the White River Valley. These sand and gravel deposits extend approximately one mile north, south and east of the site. The aquifer is hydraulically connected to (and fed by) buried aquifers to the east and drains to the White River located 2.4 miles west of the site. Typical hydraulic conductivities for the regional aquifer are $8x10^{-3}$ to $5x10^{-1}$cm/sec (USGS, 1994). The water table is commonly within ten feet of the surface in the valley.

3.0 RESULTS

Analytical laboratory reports and chain-of-custody forms are presented in Appendix A. The only parameter detected in any of the samples was Tetrachloroethene (PCE) in the air sample from the crawl space (S-4). In this sample a concentration of 1.6$\mu g/m^3$ was reported. All other samples were reported as non-detect for all parameters.

Detected analytical concentrations in the air samples were compared to IDEM 2012 Remediation Closure Guide Screening Levels for Residential Indoor Air. For the February 2012 investigation, the one detection from the crawl space (S-4) was found to be below this standard which is 4.1$\mu g/m^3$ for PCE.

4.0 DISCUSSION AND CONCLUSIONS

4.1 Discussion

In the 2008-2009 investigations, CAHs were detected in the 546 East South Street residence. Following the recommendations of the study, a vapor intrusion mitigation (VIM) system was installed at the residence and operated until January 2012.

PCE was detected in the December 2008 sample from the living space at a concentration of 3.6 $\mu g/m^3$ versus the current 2012 IDEM Remediation Closure Guide Screening Level for Residential Indoor Air of 4.1 $\mu g/m^3$. No PCE was detected in the sample collected from the living space in April 2009 but PCE was detected at 10.2$\mu g/m^3$ in the sample from the crawl space. No PCE was detected in samples from either the crawl space or living space after the VIM system had been operating for less than two months in early 2010. Indoor air sampled in the crawl space of 546 East South Street for this investigation found PCE below the IDEM Screening Level and none was detected in the Living Space..

The 2009 sampling event was conducted with the house occupied. The presence of dry cleaned garments in the house or work cloths exposed to solvents may have contributed to the previous detection. This sampling event was able to isolate the house and the plume for sampling. The result of this sampling event is considered more characteristic of the soil gas contribution to the building structure. CAHs have been below detection limits or below IDEM Screening Levels in the living space during

four rounds of sampling. Although PCE has been detected twice in the crawl space, the most recent is below the screening level. Therefore, residents are neither exposed in the living space nor are they threatened by CAH vapors from the crawl space.

5.0 RECOMMENDATION

Based on the results of this investigation BCA recommends that the requirement for VIM for the 546 East South Street address be eliminated.

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Table 1- Indoor Air Sampling Results

546 East South Street, Martinsville, Indiana

Bruce Carter Associates, LLC - February 14, 2012

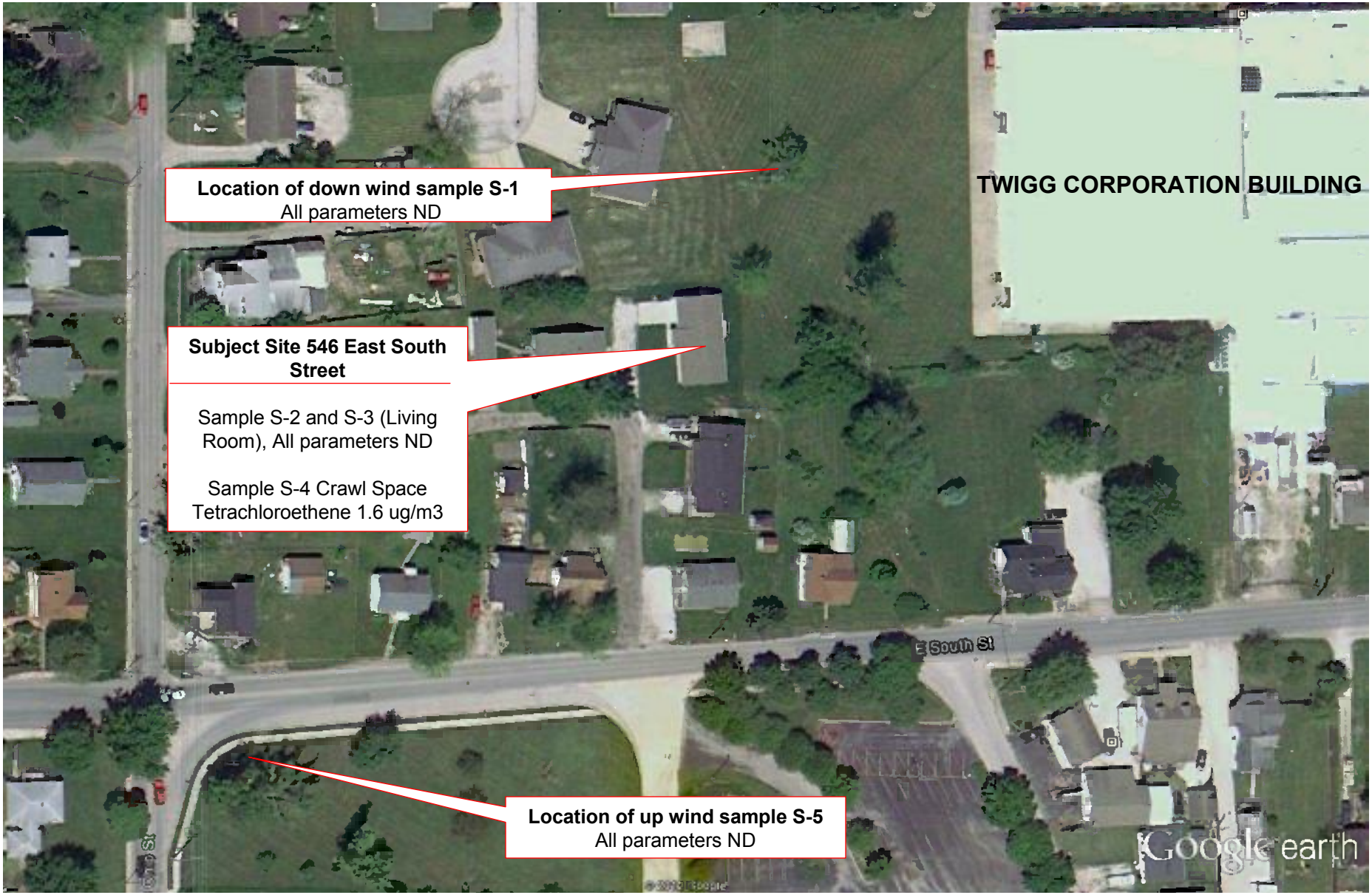
Sample Location	Sample Number	Sample Date	Units	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Vinyl Chloride	Chloroethane
546 E South St	S-14	12/10/2008	ug/m3	**3.6**	<1.1	<0.79	<0.79	<0.79	**1.2**	<0.81	<0.51	<0.53
Down-wind *	S-3 *	12/10/2008	ug/m3	<57	<45	<33	<33	<33	<46	<34	<21	<22
Up-wind	S-5	12/10/2008	ug/m3	<1.4	<1.1	<0.79	<0.79	<0.79	<1.1	<0.81	<0.51	<0.53
Trip Blank	S-15	12/10/2008	ug/m3	<1.4	<1.1	<0.79	<0.79	<0.79	<1.1	<0.81	<0.51	<0.53
546 South (Living Room)	S-33	04/02/2009 (	ug/m3	<3.20	<1.30	<1.90	<1.90	<1.90	<2.50	<1.90	<1.20	<1.20
546 South (Crawl)	S-34	04/02/2009 (	ug/m3	**10.2**	<0.740	<1.10	<1.10	<1.10	**2.40**	<1.10	<0.70	<0.72
546 South - Livingroom	S-1	3/18/2010	ug/m3	<1.9	<0.74	<1.1	<1.1	<1.1	<1.5	<1.1	<0.70	<0.72
546 South - Crawl space	S-2	3/18/2010	ug/m3	<1.9	<0.74	<1.1	<1.1	<1.1	<1.5	<1.1	<0.70	<0.72
Up Wind	S-WEST	3/18/2010	ug/m3	<1.9	<0.76	<1.1	<1.1	<1.1	<1.5	<1.1	<0.72	<0.75
Down Wind	S-EAST	3/18/2010	ug/m3	<1.8	<0.69	<1.0	<1.0	<1.0	<1.4	<1.0	<0.65	<0.68
Down-wind	S-1	2/14/2012	ug/m3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
546 E South (Living Rm)	S-2	2/14/2012	ug/m3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
546 E South (Living Rm)	S-3	2/14/2012	ug/m3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
546 E South (Crawl Space)	S-4	2/14/2012	ug/m3	**1.60**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Down-wind	S-5	2/14/2012	ug/m3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
2006 IDEM Residential Sub-Chronic (30 Year)			ug/m3	**3.2**	**1.2**	**37**	**73**	**210**	**2300**	**510**	**2.2**	**23**
2012 IDEM Residential Screening Level			ug/m3	**4.1**	**2.1**	**-**	**63**	**210**	**5200**	**15**	**1.6**	**-**

Samples collected and analyzed according to EPA Method TO15

2006 IDEM Indoor Air Action Levels (ug/m3) taken from IDEM Draft Vapor Intrusion Pilot Program Guidance - April 26, 2006

2012 IDEM Residential Limit taken from IDEM Remediation Closure Guide

* Sample was received with 24 inches of mercury initial vacuum resulting in an elevated reporting limit



Bruce Carter Associates, L.L.C. 6330 E. 75th SUITE 150 INDIANAPOLIS, IN 46250 317-578-4233		DATE: 3/22/12 APPROXIMATE SCALE: NTS	DRAWING TITLE Site Location and VI Sample Results 546 East South Street	PROJECT: Twigg Corporation 659 York Street Martinsville, IN	DRAWN BY: D. King BCA PROJECT NO. 99-138	FIGURE 1

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 01, 2012

Client Services
Pace Analytical Indianapolis
7726 Moller Road
Indianapolis, IN 46268

RE: Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Norman C. Hoffa

norm.hoffa@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
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Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
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New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
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SAMPLE SUMMARY

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5058707001	**S-1**	Air	02/14/12 08:00	02/20/12 09:35
5058707002	**S-2**	Air	02/14/12 08:00	02/20/12 09:35
5058707003	**S-3**	Air	02/14/12 08:00	02/20/12 09:35
5058707004	**S-4**	Air	02/14/12 08:00	02/20/12 09:35
5058707005	**S-5**	Air	02/14/12 08:00	02/20/12 09:35

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SAMPLE ANALYTE COUNT

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5058707001	**S-1**	TO-15	CJR	8
5058707002	**S-2**	TO-15	CJR	8
5058707003	**S-3**	TO-15	CJR	8
5058707004	**S-4**	TO-15	CJR	8
5058707005	**S-5**	TO-15	SK4	8

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ANALYTICAL RESULTS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Sample: S-1 **Lab ID: 5058707001** Collected: 02/14/12 08:00 Received: 02/20/12 09:35 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.68	1.26		02/23/12 14:02	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.0	1.26		02/23/12 14:02	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.0	1.26		02/23/12 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.26		02/23/12 14:02	156-59-2	
Tetrachloroethene	ND	ug/m3	0.87	1.26		02/23/12 14:02	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.26		02/23/12 14:02	71-55-6	
Trichloroethene	ND	ug/m3	0.69	1.26		02/23/12 14:02	79-01-6	
Vinyl chloride	ND	ug/m3	0.66	1.26		02/23/12 14:02	75-01-4	

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ANALYTICAL RESULTS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Sample: S-2 **Lab ID: 5058707002** Collected: 02/14/12 08:00 Received: 02/20/12 09:35 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.75	1.39		02/23/12 15:06	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		02/23/12 15:06	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.39		02/23/12 15:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		02/23/12 15:06	156-59-2	
Tetrachloroethene	ND	ug/m3	0.96	1.39		02/23/12 15:06	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.39		02/23/12 15:06	71-55-6	
Trichloroethene	ND	ug/m3	0.76	1.39		02/23/12 15:06	79-01-6	
Vinyl chloride	ND	ug/m3	0.36	1.39		02/23/12 15:06	75-01-4	

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ANALYTICAL RESULTS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Sample: S-3 **Lab ID: 5058707003** Collected: 02/14/12 08:00 Received: 02/20/12 09:35 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.78	1.44		02/23/12 15:37	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		02/23/12 15:37	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		02/23/12 15:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		02/23/12 15:37	156-59-2	
Tetrachloroethene	ND	ug/m3	0.99	1.44		02/23/12 15:37	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		02/23/12 15:37	71-55-6	
Trichloroethene	ND	ug/m3	0.79	1.44		02/23/12 15:37	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		02/23/12 15:37	75-01-4	

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ANALYTICAL RESULTS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Sample: S-4 **Lab ID: 5058707004** Collected: 02/14/12 08:00 Received: 02/20/12 09:35 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.72	1.34		02/23/12 16:08	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		02/23/12 16:08	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		02/23/12 16:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		02/23/12 16:08	156-59-2	
Tetrachloroethene	**1.6**	ug/m3	0.92	1.34		02/23/12 16:08	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		02/23/12 16:08	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		02/23/12 16:08	79-01-6	
Vinyl chloride	ND	ug/m3	0.35	1.34		02/23/12 16:08	75-01-4	

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ANALYTICAL RESULTS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Sample: S-5 **Lab ID: 5058707005** Collected: 02/14/12 08:00 Received: 02/20/12 09:35 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.72	1.34		02/27/12 21:36	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		02/27/12 21:36	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		02/27/12 21:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		02/27/12 21:36	156-59-2	
Tetrachloroethene	ND	ug/m3	0.92	1.34		02/27/12 21:36	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		02/27/12 21:36	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		02/27/12 21:36	79-01-6	
Vinyl chloride	ND	ug/m3	0.35	1.34		02/27/12 21:36	75-01-4	

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QUALITY CONTROL DATA

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

QC Batch: AIR/14320 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 5058707001, 5058707002, 5058707003, 5058707004

METHOD BLANK: 1144378 Matrix: Air
Associated Lab Samples: 5058707001, 5058707002, 5058707003, 5058707004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	02/23/12 12:56	
1,1-Dichloroethane	ug/m3	ND	0.82	02/23/12 12:56	
1,1-Dichloroethene	ug/m3	ND	0.81	02/23/12 12:56	
Chloroethane	ug/m3	ND	0.54	02/23/12 12:56	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	02/23/12 12:56	
Tetrachloroethene	ug/m3	ND	0.69	02/23/12 12:56	
Trichloroethene	ug/m3	ND	0.55	02/23/12 12:56	
Vinyl chloride	ug/m3	ND	0.52	02/23/12 12:56	

LABORATORY CONTROL SAMPLE: 1144379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	58.5	106	72-129	
1,1-Dichloroethane	ug/m3	41.2	48.1	117	67-132	
1,1-Dichloroethene	ug/m3	40.3	46.7	116	68-134	
Chloroethane	ug/m3	26.8	27.3	102	66-131	
cis-1,2-Dichloroethene	ug/m3	40.3	37.2	92	73-130	
Tetrachloroethene	ug/m3	69	62.1	90	70-130	
Trichloroethene	ug/m3	54.6	50.7	93	72-131	
Vinyl chloride	ug/m3	26	27.6	106	70-131	

SAMPLE DUPLICATE: 1144380

Parameter	Units	5058707001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

QC Batch: AIR/14340
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 5058707005

METHOD BLANK: 1146106 Matrix: Air
Associated Lab Samples: 5058707005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	02/27/12 19:08	
1,1-Dichloroethane	ug/m3	ND	0.82	02/27/12 19:08	
1,1-Dichloroethene	ug/m3	ND	0.81	02/27/12 19:08	
Chloroethane	ug/m3	ND	0.54	02/27/12 19:08	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	02/27/12 19:08	
Tetrachloroethene	ug/m3	ND	0.69	02/27/12 19:08	
Trichloroethene	ug/m3	ND	0.55	02/27/12 19:08	
Vinyl chloride	ug/m3	ND	0.26	02/27/12 19:08	

LABORATORY CONTROL SAMPLE: 1146107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.5	114	72-129	
1,1-Dichloroethane	ug/m3	41.2	47.2	115	67-132	
1,1-Dichloroethene	ug/m3	40.3	47.1	117	68-134	
Chloroethane	ug/m3	26.8	31.5	117	66-131	
cis-1,2-Dichloroethene	ug/m3	40.3	50.7	126	73-130	
Tetrachloroethene	ug/m3	69	78.1	113	70-130	
Trichloroethene	ug/m3	54.6	61.8	113	72-131	
Vinyl chloride	ug/m3	26	31.0	119	70-131	

SAMPLE DUPLICATE: 1146413

Parameter	Units	5058707005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	1.4		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5058707 Bruce Carter & Assoc.
Pace Project No.: 10183444

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5058707001	**S-1**	TO-15	AIR/14320		
5058707002	**S-2**	TO-15	AIR/14320		
5058707003	**S-3**	TO-15	AIR/14320		
5058707004	**S-4**	TO-15	AIR/14320		
5058707005	**S-5**	TO-15	AIR/14340		

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101834444

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

06489 Page: 1 of 1

Section A Required Client Information:
Company: BCA CONSULTANTS
Address: 6380 E 75TH ST, SUITE 150
INDIANAPOLIS, IN
Email To: DKING@BCACONSULTANTS1.COM
Phone: 9175564233 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: D KING / J. KUMER
Copy To:
Purchase Order No.:
Project Name: TWIGG 99-138
Project Number:

Section C Invoice Information:
Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other
Location of Sampling by State: IN
Reporting Units: ug/m³ mg/m³ PPBV PPMV Other
Report Level: II. III. IV. Other

ITEM #	'Section D Required Client Information — AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	CAH	Pace Lab ID
1	S-1	TE		2-14-12				25	1"	1590								X				505F707-001
2	S-2	TE					30"	25	4"	2027								X				-002
3	S-3	TE					29"	30	2"	1658								X				-003
4	S-4	TE						20*	0"	1634								X				-004
5	S-5	TE						30+	6"	1740								X				-005
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Comments: *CAHs - PCE, TCE, c-DCE, VC, TCA, 1,1-DCA, CA, 1,1-DCE
RL see level IV QM/QC

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/16/12	2:16		2/16/12	2:10
				Thu 2/23/2012	08:35

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DAVID KING
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 2-16-12

Pace 2-16-12 1550
Lee

ORIGINAL

10183444

Chain of Custody

10183444

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www.pacelabs.com

Workorder: 5058707 **Workorder Name:** TWIGG / 99-138 **Owner Received Date:** 2/16/2012 **Results Requested By:** 3/1/2012

Report To	Subcontract To
Kenneth Hunt Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 Phone (317)875-5894 Fax (317)872-6189	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Air Can	Requested Analysis: TO-15 Low Level IN *	Requested Analysis: Short List (9 Compounds)	LAB USE ONLY
1	S-1	PS	2/14/2012 08:00	5058707001	Air	1	X		
2	S-2	PS	2/14/2012 08:00	5058707002	Air	1	X		
3	S-3	PS	2/14/2012 08:00	5058707003	Air	1	X		
4	S-4	PS	2/14/2012 08:00	5058707004	Air	1	X		
5	S-5	PS	2/14/2012 08:00	5058707005	Air	1	X		

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	2-20-12 0935
2				
3				

Comments

List: PCE, TCE, Cis-DCE, VC, 111-TCA, Chloroethane, 1,1-DCE & 1,1-DCA. Level 4 package needed. Report in ug/cubic meter.

Cooler Temperature on Receipt 4.5 °C **Custody Seal** Y or (N) **Received on Ice** Y or (N) **Samples Intact** Y or N

10183444

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: PACE IN Project # 10183444

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other_____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other_____

Tracking #: 9869 5368 5770, 5769

Comments:

Date and Initials of person examining contents: 2-20-12 JE

Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Media: AIR (CAN)		11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.

Samples Received: SCANS, SFC'S

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
S-1	1590		FC0543				
S-2	2027		FC0207				
S-3	1658		FC0236				
S-4	1634		FC0090				
S-5	1740		FC0349				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Fraction: TO15

Instrument Run Log

Instrument: 10AIRB
Column: J&W DB-5 0.32mm Helium

Method:
Tune Standard:

Misc. Prep. Info:
ISTD Lot:

Surrogate Lot:
Cal. Standard:

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
04501.D	BFB	Gas	Tune	1		50ng_bfb	2/14/12 13:02	RTP	
04502.D	ICAL 1 8137-59-15	Gas	Ical	1		TO15_045-12	2/14/12 13:59	RTP	
04503.D	ICAL 2 8137-59-15	Gas	Ical	1		TO15_045-12	2/14/12 14:30	RTP	
04504.D	ICAL 3 8137-59-15	Gas	Ical	1		TO15_045-12	2/14/12 15:01	RTP	
04505.D	ICAL 4 8137-59-15	Gas	Ical	1		TO15_045-12	2/14/12 15:33	RTP	
04506.D	ICAL 5 8137-59-18	Gas	Ical	1		TO15_045-12	2/14/12 16:04	RTP	
04507.D	ICAL 6 8137-59-18	Gas	Ical	1		TO15_045-12	2/14/12 16:35	RTP	
04508.D	ICAL 7 8137-59-18	Gas	Ical	1		TO15_045-12	2/14/12 17:08	RTP	
04509.D	SSV 8137-52-17	Gas	LCS	1		TO15_045-12	2/14/12 17:39	RTP	
04510.D	LCS 8137-59-18	Gas	LCS	1		TO15_045-12	2/14/12 18:11	RTP	
04511.D	BLANK	Gas	Sample	1		TO15_045-12	2/14/12 18:42	RTP	
04512.D	BLANK	Gas	Sample	1		TO15_045-12	2/14/12 19:13	RTP	

Check Maintenance Items Performed:

Changed septum	Clipped column	Changed column - Lot #
Cleaned liner	Changed trap - Lot #	Other minor parts replaced
Replaced/Cleaned gold seal	Cleaned MS Source	No maintenance performed today

Additional Comments:

File Path 1: U:\10AIRB.I\021412.B\
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

Report Date: 02/15/2012 13:38
Reviewed By/Date:

Instrument Run Log

Instrument: 10AIRB Method: Misc. Prep. Info: Surrogate Lot: 8137-61-8
Column: J&W DB-5 0.32mm Helium Tune Standard: 8137-61-8 ISTD Lot: 8137-61-8 Cal. Standard: 8137-59-18

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
05401.D	TUNE 8137-61-8	G/	Tune	1		50NG_BFB	2/23/12 10:58	RTP	
05402C.D	1144388	G/14322	LCS	1		TO15_045-12	2/23/12 11:29	RTP	
05402B.D	1144384	G/14321	LCS	1		TO15_045-12	2/23/12 11:29	RTP	
05402A.D	1144379	G/14320	LCS	1		TO15_045-12	2/23/12 11:29	RTP	
05402.D	CCV 8137-59-18	G/	CCal	1		TO15_045-12	2/23/12 11:29	RTP	
05403.D	BLANK	G/	Sample	1		TO15_045-12	2/23/12 12:25	RTP	
05404C.D	1144387	G/14322	Blank	1		TO15_045-12	2/23/12 12:56	RTP	
05404B.D	1144383	G/14321	Blank	1		TO15_045-12	2/23/12 12:56	RTP	
05404A.D	1144378	G/14320	Blank	1		TO15_045-12	2/23/12 12:56	RTP	
05404.D	BLANK	G/	Blank	1		TO15_045-12	2/23/12 12:56	RTP	
05405.D	5058707001	G/14320	Sample	1.26		TO15_045-12	2/23/12 14:02	CJR	
05406.D	1144380	G/14320	Duplicate	1.26		TO15_045-12	2/23/12 14:33	CJR	
05407.D	5058707002	G/14320	Sample	1.39		TO15_045-12	2/23/12 15:06	CJR	
05408.D	5058707003	G/14320	Sample	1.44		TO15_045-12	2/23/12 15:37	CJR	
05409.D	5058707004	G/14320	Sample	1.34		TO15_045-12	2/23/12 16:08	CJR	
05410.D	5058707005	G/14320	Sample	1.34		TO15_045-12	2/23/12 16:42	CJR	
05411.D	92112428001	G/14320	Sample	1.68		TO15_045-12	2/23/12 17:13	CJR	
05412.D	10183631001	G/14322	Sample	1.26		TO15_045-12	2/23/12 17:45	CJR	
05413.D	10183631002	G/14322	Sample	1.26		TO15_045-12	2/23/12 18:16	CJR	
05414.D	10183285001	G/14322	Sample	1.68		TO15_045-12	2/23/12 18:47	CJR	
05415.D	10183285001	G/14322	Sample	1.68		TO15_045-12	2/23/12 19:18	CJR	
05416.D	10183292001	G/14321	Sample	36		TO15_045-12	2/23/12 19:50	CJR	
05417.D	10183292001	G/14321	Duplicate	36		TO15_045-12	2/23/12 20:21	CJR	
05418.D	83292002	G/14321	Sample	992		TO15_045-12	2/23/12 20:52	CJR	
05419.D	10183631003	G/14322	Sample	1612.8		TO15_045-12	2/23/12 21:24	CJR	
05420.D	FLUSH	G/	Sample	1		TO15_045-12	2/23/12 21:55	CJR	
05421.D	10183631002	G/14322	Sample	6.3		TO15_045-12	2/24/12 08:37	CJR	
05422.D	10183285001	G/14322	Sample	16.8		TO15_045-12	2/24/12 09:08	CJR	
05423.D	10183292002	G/14321	Sample	80.64		TO15_045-12	2/24/12 09:39	CJR	
05424.D	10183631003	G/14322	Sample	40.32		TO15_045-12	2/24/12 10:11	CJR	

Check Maintenance Items Performed:

Changed septum	Clipped column	Changed column - Lot #
Cleaned liner	Changed trap - Lot #	Other minor parts replaced
Replaced/Cleaned gold seal	Cleaned MS Source	No maintenance performed today

Additional Comments:

File Path 1: U:\10AIRB.I\022312.B\
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

Report Date: 02/24/2012 11:01
Reviewed By/Date:

Instrument Run Log

Instrument: 10AIRD Method: Misc. Prep. Info: Surrogate Lot: 8137-61-13
Column: J&W DB-5 0.32mm Helium Tune Standard: 8137-61-13 ISTD Lot: 8137-61-13 Cal. Standard: 8137-63-4/3

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
05801BFB.D	BFB	L/	Tune	1		50NG_BFB	2/27/12 07:22	SK4	
05802.D	CCAL	G/	CCal	1		TO15_055-12	2/27/12 07:51	SK4	
05803.D	SSV	G/	LCS	1		TO15_055-12	2/27/12 10:08	SK4	
05804.D	SSV	G/	LCS	1		TO15_055-12	2/27/12 11:09	SK4	
05805.D	ICAL 1	G/	Ical	1		TO15_058-12	2/27/12 12:18	SK4	
05806.D	ICAL 2	G/	Ical	1		TO15_058-12	2/27/12 12:47	SK4	
05807.D	ICAL 3	G/	Ical	1		TO15_058-12	2/27/12 13:17	SK4	
05808.D	ICAL 4	G/	Ical	1		TO15_058-12	2/27/12 13:46	SK4	
05809.D	ICAL 5	G/	Ical	1		TO15_058-12	2/27/12 14:16	SK4	
05810.D	ICAL 6	G/	Ical	1		TO15_058-12	2/27/12 14:45	SK4	
05811.D	ICAL 7	G/	Ical	1		TO15_058-12	2/27/12 15:15	SK4	
05812.D	SSV	G/	LCS	1		TO15_058-12	2/27/12 17:40	SK4	8137-52-17
05813A.D	1147128	G/14357	LCS	1		TO15_058-12	2/27/12 18:09	SK4	
05813LL.D	1146107	G/14340	LCS	1		TO15_058-12	2/27/12 18:09	SK4	
05813.D	LCS	G/	LCS	1		TO15_058-12	2/27/12 18:09	SK4	
05814.D	BLANK	G/	Blank	1		TO15_058-12	2/27/12 18:39	SK4	
05815A.D	1147127	G/14357	Blank	1		TO15_058-12	2/27/12 19:08	SK4	
05815LL.D	1146106	G/14340	Blank	1		TO15_058-12	2/27/12 19:08	SK4	
05815.D	BLANK	G/	Blank	1		TO15_058-12	2/27/12 19:08	SK4	
05816.D	10183451002	G/14340	Sample	2.6376		TO15_058-12	2/27/12 19:37	SK4	
05817.D	10183672002	G/14340	Sample	1.68		TO15_058-12	2/27/12 20:07	SK4	
05818.D	10183443002	G/	Sample	1.9296		TO15_058-12	2/27/12 20:38	SK4	
05819.D	-DUP	G/	Duplicate	1.9296		TO15_058-12	2/27/12 21:07	SK4	
05820.D	5058707005	G/14340	Sample	1.34		TO15_058-12	2/27/12 21:36	SK4	
05821.D	1146413	G/14340	Duplicate	1.34		TO15_058-12	2/27/12 22:06	SK4	
05822.D	10183455002	G/14340	Sample	1.68		TO15_058-12	2/27/12 22:35	SK4	
05823.D	10183672003	G/14340	Sample	1.8		TO15_058-12	2/27/12 23:04	SK4	
05824.D	10183542001	G/14340	Sample	1.68		TO15_058-12	2/27/12 23:34	SK4	
05825.D	10183542002	G/14340	Sample	1.68		TO15_058-12	2/28/12 00:03	SK4	
05826.D	10183456002	G/14340	Sample	1.8		TO15_058-12	2/28/12 00:32	SK4	
05827.D	10183452002	G/14326	Sample	29.232		TO15_058-12	2/28/12 01:02	SK4	
05828.D	10183435002	G/	Sample	15.7		TO15_058-12	2/28/12 01:31	SK4	
05829.D	10183453002	G/14326	Sample	28.224		TO15_058-12	2/28/12 02:01	SK4	
05830.D	10183452001	G/	Sample	16.8		TO15_058-12	2/28/12 02:30	SK4	
05831.D	10183453001	G/	Sample	28.224		TO15_058-12	2/28/12 02:59	SK4	
05832.D	10183451001	G/14340	Sample	8.4		TO15_058-12	2/28/12 03:29	SK4	
05833.D	10183435001	G/14357	Sample	7.85		TO15_058-12	2/28/12 03:58	SK4	
05834.D	10183455001	G/14340	Sample	33.6		TO15_058-12	2/28/12 04:28	SK4	
05835.D	10183456001	G/14340	Sample	34.8		TO15_058-12	2/28/12 04:57	SK4	
05836.D	10183672004	G/14340	Sample	1.68		TO15_058-12	2/28/12 05:26	SK4	

Instrument: 10AIRD Method: Misc. Prep. Info: Surrogate Lot: 8137-61-13
Column: J&W DB-5 0.32mm Helium Tune Standard: 8137-61-13 ISTD Lot: 8137-61-13 Cal. Standard: 8137-63-4/3

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments

Check Maintenance Items Performed:

Changed septum	Clipped column	Changed column - Lot #
Cleaned liner	Changed trap - Lot #	Other minor parts replaced
Replaced/Cleaned gold seal	Cleaned MS Source	No maintenance performed today

Additional Comments:

File Path 1: U:\10AIRD.I\022712.B\
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

Report Date: 02/29/2012 15:16
Reviewed By/Date:

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Calibration File Names:
Level 1: \\192.168.10.12\chem\10airB.i\021412.b\04502.D
Level 2: \\192.168.10.12\chem\10airB.i\021412.b\04503.D
Level 3: \\192.168.10.12\chem\10airB.i\021412.b\04504.D
Level 4: \\192.168.10.12\chem\10airB.i\021412.b\04505.D
Level 5: \\192.168.10.12\chem\10airB.i\021412.b\04506.D
Level 6: \\192.168.10.12\chem\10airB.i\021412.b\04507.D
Level 7: \\192.168.10.12\chem\10airB.i\021412.b\04508.D

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
1 Propylene	+-+-+	+-+-+	+++++	+++++	+++++	+++++	+-+-+	AVRG		0.000e+000		0.000e+000	<-
2 Dichlorodifluoromethane	+-+-+	+-+-+	+++++	+++++	+++++	+++++	+-+-+	AVRG		0.000e+000		0.000e+000	<-
3 Dichlorotetrafluoroethane	+-+-+	+-+-+	+++++	+++++	+++++	+++++	+-+-+	AVRG		0.000e+000		0.000e+000	<-
4 Chloromethane	+-+-+	+-+-+	+++++	+++++	+++++	+++++	+-+-+	AVRG		0.000e+000		0.000e+000	<-

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 Vinyl chloride	0.48513	0.37855	0.41003	0.36226	0.35815	0.32250						
	0.28737						AVRG		0.37200		17.06749	
6 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
7 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
8 Chloroethane	0.19785	0.15462	0.17899	0.14418	0.14049	0.14157						
	0.11961						AVRG		0.15390		17.11713	
9 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
10 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
11 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Acrylonitrile	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
13 1,1-Dichloroethene	0.83349 / 0.41725	0.62033	0.66683	0.56599	0.52853	0.50164	AVRG		0.59058		22.72919	
14 Freon 113	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
15 Methylene chloride	+++++ / 0.21648	0.38701	0.37246	0.30815	0.26792	0.25070	AVRG		0.30046		22.73078	
16 Carbon Disulfide	+++++ / 2916994	26648	55531	108878	1044369	2032582	QUAD	0.01129	1.26452	0.45267	0.99904	
17 trans-1,2-dichloroethene	10681 / +++++	17683	39865	80947	810557	1525296	LINR	-0.01555	0.43617		0.99799	
18 Methyl Tert Butyl Ether	1.20682 / 0.82727	0.91070	1.14228	0.94927	1.06070	0.94631	AVRG		1.00619		13.43831	

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
19 Ethyl Acetate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
20 1,1-Dichloroethane	14257 / +++++	21180	56748	118523	1150449	2157756	LINR	-0.01561	0.61756		0.99781	
22 Methyl Ethyl Ketone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
23 n-Hexane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
24 cis-1,2-Dichloroethene	0.57005 / 0.37456	0.35859	0.44981	0.41263	0.43199	0.40613	AVRG		0.42911		16.21500	
25 Vinyl Acetate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
26 Bromochloromethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	30.0000 Level 7											
27 Chloroform	1.04801	0.72757	0.89220	0.80484	0.81002	0.76136						
	0.67598						AVRG		0.81714		15.00450	
28 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
29 1,1,1-Trichloroethane	1.14122	0.84269	1.02452	0.87960	0.86823	0.81606						
	0.72282						AVRG		0.89931		15.51708	
30 1,2-Dichloroethane	0.64109	0.45790	0.56049	0.50979	0.52647	0.50318						
	0.45958						AVRG		0.52264		12.14842	
31 Benzene	1.71884	1.04456	1.28418	1.19148	1.14526	1.03615						
	0.88761						AVRG		1.18687		22.46986	
32 Carbon tetrachloride	1.05810	0.85193	0.86212	0.77564	0.93768	0.85792						
	0.73991						AVRG		0.86904		12.09748	
33 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
35 2,2,4-Trimethylpentane	*****	*****	*****	*****	*****	*****	*****						
								AVRG		0.000e+000		0.000e+000	<-
36 Heptane	*****	*****	*****	*****	*****	*****	*****						
								AVRG		0.000e+000		0.000e+000	<-
37 1,2-Dichloropropane	*****	*****	*****	*****	*****	*****	*****						
								AVRG		0.000e+000		0.000e+000	<-
38 Trichloroethene	0.69055	0.49236	0.58348	0.56340	0.56027	0.53712	0.48808						
								AVRG		0.55932		12.18581	
39 Bromodichloromethane	*****	*****	*****	*****	*****	*****	*****						
								AVRG		0.000e+000		0.000e+000	<-
40 Methyl Isobutyl Ketone	*****	*****	*****	*****	*****	*****	*****						
								AVRG		0.000e+000		0.000e+000	<-
41 cis-1,3-Dichloropropene	*****	*****	*****	*****	*****	*****	*****						
								AVRG		0.000e+000		0.000e+000	<-

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	30.0000 Level 7											
42 trans-1,3-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
44 Toluene	+++++	1.53553	1.43277	1.36001	1.38082	1.32177						
	1.19168						AVRG		1.37043		8.36333	
45 1,1,2-Trichloroethane	0.59083	0.36996	0.41862	0.38750	0.40524	0.43460						
	0.40435						AVRG		0.43016		17.16164	
46 Methyl Butyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
47 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
48 1,2-Dibromoethane	1.14446	0.85090	1.10518	1.02340	1.27492	1.27660						
	1.26035						AVRG		1.13369		13.92223	
49 Tetrachloroethene	1.53668	1.09211	1.45962	1.33999	1.59010	1.58355						
	1.53482						AVRG		1.44812		12.36659	

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
51 Chlorobenzene	1.80933	1.43911	1.86946	1.63694	1.97404	1.96351	1.90319	AVRG		1.79937		10.86713	
52 Ethyl Benzene	2.83382	1.76675	2.40223	2.32201	2.77622	2.73061	2.59786	AVRG		2.48993		14.92559	
53 m&p-Xylene	2.36827	1.52080	2.04712	2.00785	2.42793	2.34303	2.18279	AVRG		2.12826		14.69165	
54 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
55 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
56 Styrene	1.85553	1.19046	1.51193	1.70989	2.11194	2.11745	2.03319	AVRG		1.79005		19.31818	
57 o-Xylene	2.00750	1.21048	1.63984	1.67378	2.13234	2.15651	2.09369	AVRG		1.84488		19.06004	

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
58 1,1,2,2-Tetrachloroethane	1.35129	1.09705	1.41352	1.22211	1.51934	1.55334	1.48164	AVRG		1.37690		12.10432
59 Isopropylbenzene	2.89330	2.17180	2.89324	2.54294	3.00032	2.97929	2.81949	AVRG		2.75720		10.85986
60 n-Propylbenzene	3.00804	1.94888	2.60624	2.56980	3.18813	3.17938	2.93545	AVRG		2.77656		15.88579
61 4-Ethyltoluene	2.58331	1.50878	2.03119	1.85063	2.24904	2.34461	2.14716	AVRG		2.10210		16.64192
62 1,3,5-Trimethylbenzene	2.37346	1.52600	2.22523	2.03448	2.53129	2.57981	2.43349	AVRG		2.24339		16.35527
63 1,2,4-Trimethylbenzene	2.23939	1.45724	1.85949	1.67023	2.10635	2.21813	2.05873	AVRG		1.94422		15.15580
64 1,3-Dichlorobenzene	1.89327	1.36016	1.82153	1.54670	1.72098	1.77773	1.60328	AVRG		1.67481		10.96928

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
65 Sec- Butylbenzene	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	<-
67 Benzyl Chloride	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	<-
68 1,4-Dichlorobenzene	1.81547	1.29192	1.79789	1.53823	1.71110	1.78670						
	1.63870						AVRG		1.65429		11.37311	
69 1,2-Dichlorobenzene	1.63833	1.14406	1.52966	1.29208	1.46212	1.58642						
	1.45105						AVRG		1.44339		11.95988	
70 N-Butylbenzene	*****	*****	*****	*****	*****	*****						
	*****						AVRG		0.000e+000		0.000e+000	<-
71 1,2,4-Trichlorobenzene	0.74036	0.60358	0.92847	0.47649	0.57618	0.50538						
	*****						AVRG		0.63841		26.53914	
72 Naphthalene	20056	23237	65292	75035	893832	1545447						
	*****						LINR	-0.02548	0.87544		0.99539	

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
73 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++						
								AVRG		0.000e+000		0.000e+000	<-
$ 21 Hexane-d14(S)	0.56437	0.41617	0.43013	0.38848	0.36879	0.38140							
							0.38325	AVRG		0.41894		16.13308	
$ 43 Toluene-d8 (S)	0.80260	0.82233	0.79161	0.80722	0.79422	0.78477							
							0.78289	AVRG		0.79795		1.73972	
$ 66 1,4-dichlorobenzene-d4 (S)	0.64261	0.62827	0.65614	0.62962	0.60049	0.66195							
							0.64760	AVRG		0.63810		3.25452	

Report Date : 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-FEB-2012 13:59
End Cal Date : 14-FEB-2012 17:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Last Edit : 15-Feb-2012 12:55 rprovost

Average %RSD Results.
Calculated Average %RSD = 23.77902
Maximun Average %RSD = 40.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04502.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04502.D
Lab Smp Id: ical 1 8137-59-15
Inj Date : 14-FEB-2012 13:59
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 1 8137-59-15
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	7307	0.10000	0.130(a)
	8 Chloroethane	64	3.959	3.959	(0.586)	2980	0.10000	0.128(aM)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	12554	0.10000	0.141(a)
	15 Methylene chloride	49	4.653	4.653	(0.689)	36632	0.10000	0.402
	16 Carbon Disulfide	76	4.808	4.808	(0.712)	22362	0.10000	0.194(a)
	17 trans-1,2-dichloroethene	96	5.003	5.003	(0.741)	10681	0.10000	0.141(aM)
	18 Methyl Tert Butyl Ether	73	5.087	5.087	(0.753)	18177	0.10000	0.120(aM)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	14257	0.10000	0.137(a)
$	21 Hexane-d14(S)	66	5.294	5.294	(0.784)	850049	10.0000	13.5
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	8586	0.10000	0.133(aQ)
	27 Chloroform	83	5.739	5.739	(0.850)	15785	0.10000	0.128(a)
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.925)	17189	0.10000	0.127(a)
	30 1,2-Dichloroethane	62	6.262	6.262	(0.927)	9656	0.10000	0.123(a)
	31 Benzene	78	6.547	6.547	(0.969)	25889	0.10000	0.145(a)
	32 Carbon tetrachloride	117	6.570	6.570	(0.973)	15937	0.10000	0.122(a)
*	34 1,4-Difluorobenzene	114	6.754	6.754	(1.000)	1506194	10.0000	
	38 Trichloroethene	130	7.217	7.217	(1.069)	10401	0.10000	0.123(a)
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1208871	10.0000	10.0
	44 Toluene	91	8.666	8.666	(1.283)	282907	0.10000	0.487
	45 1,1,2-Trichloroethane	97	8.671	8.671	(1.284)	8899	0.10000	0.137(aQ)
	48 1,2-Dibromoethane	107	9.586	9.586	(0.916)	11371	0.10000	0.101(a)
	49 Tetrachloroethene	166	9.675	9.675	(0.925)	15268	0.10000	0.106(a)
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	993572	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04502.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
51	Chlorobenzene	112	10.517	10.517	(1.005)	17977	0.10000	0.100(a)
52	Ethyl Benzene	91	10.808	10.808	(1.033)	28156	0.10000	0.114(a)
53	m&p-Xylene	91	10.986	10.986	(1.050)	47061	0.20000	0.222(a)
56	Styrene	104	11.491	11.491	(1.098)	18436	0.10000	0.104(a)
57	o-Xylene	91	11.574	11.574	(1.106)	19946	0.10000	0.109(a)
58	1,1,2,2-Tetrachloroethane	83	11.882	11.882	(1.136)	13426	0.10000	0.0981(a)
59	Isopropylbenzene	105	12.250	12.250	(1.171)	28747	0.10000	0.105(a)
60	N-Propylbenzene	91	12.915	12.915	(1.234)	29887	0.10000	0.108(aA)
61	4-Ethyltoluene	105	13.117	13.117	(1.254)	25667	0.10000	0.123(M)
62	1,3,5-Trimethylbenzene	105	13.224	13.224	(1.264)	23582	0.10000	0.106(aM)
63	1,2,4-Trimethylbenzene	105	13.829	13.829	(1.322)	22250	0.10000	0.115(a)
64	1,3-Dichlorobenzene	146	14.197	14.197	(1.357)	18811	0.10000	0.113(a)
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.268	14.268	(1.364)	638476	10.0000	10.1
68	1,4-Dichlorobenzene	146	14.316	14.316	(1.368)	18038	0.10000	0.110(a)
69	1,2-Dichlorobenzene	146	14.838	14.838	(1.418)	16278	0.10000	0.114(a)
71	1,2,4-Trichlorobenzene	180	17.396	17.396	(1.662)	7356	0.10000	0.124(aQ)
72	Naphthalene	128	17.574	17.574	(1.679)	20056	0.10000	0.173(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04502.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04502.D
Lab Smp Id: ical 1 8137-59-15
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

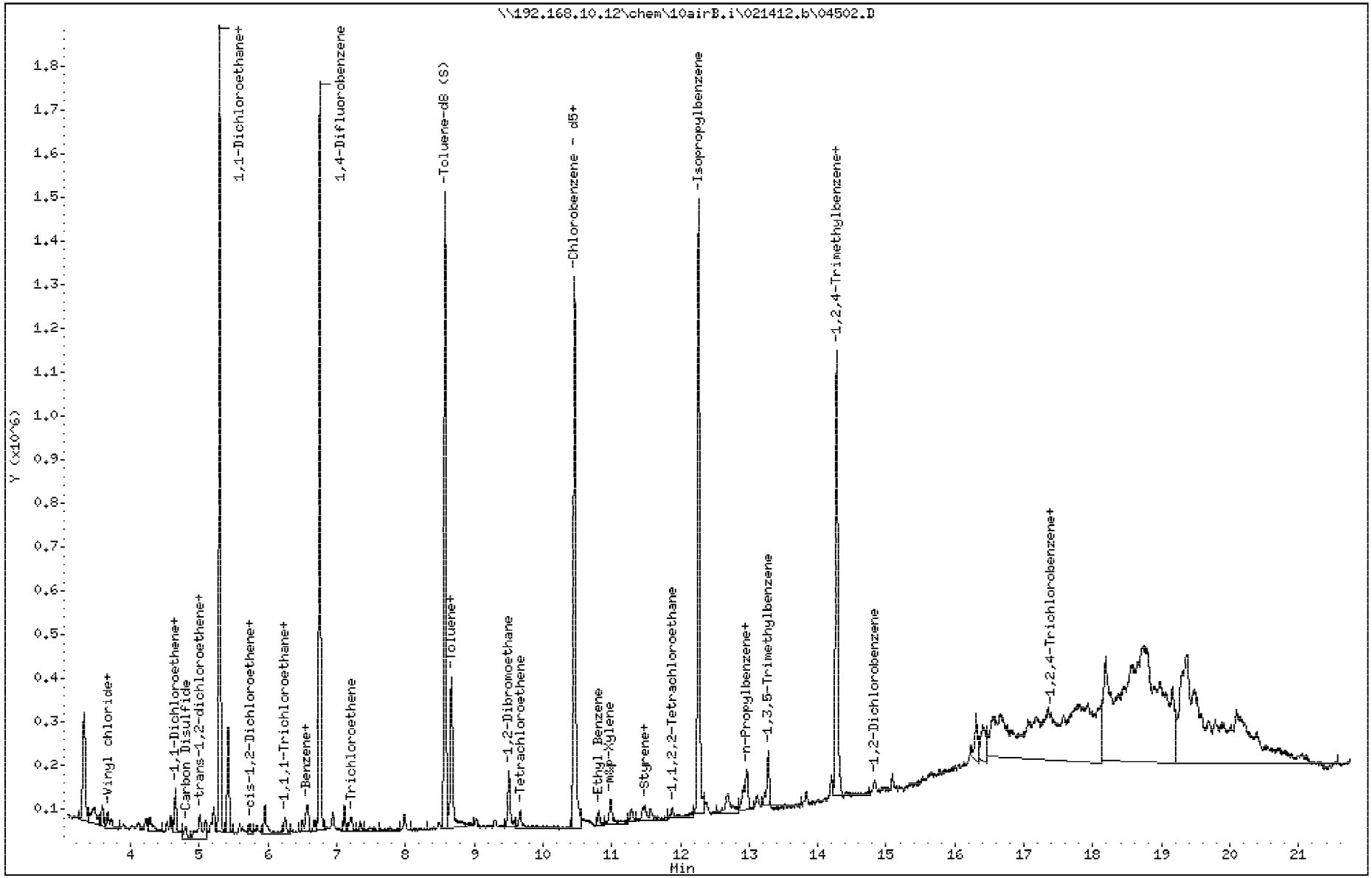
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1506194	-11.98
50 Chlorobenzene - d	907290	544374	1270206	993572	9.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

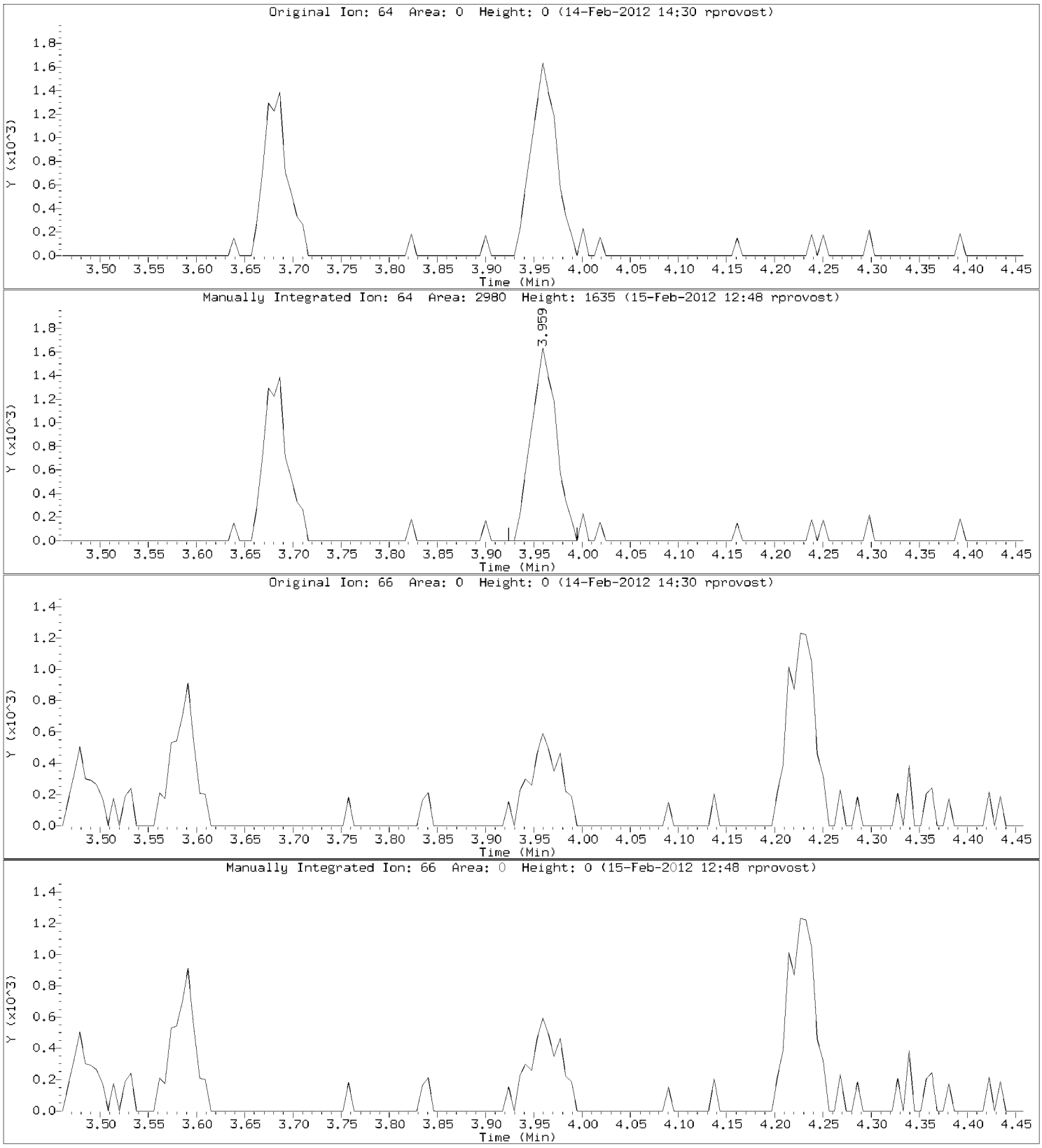
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Date : 14-FEB-2012 13:59
Client ID:
Sample Info: ical 1 8137-59-15

Instrument: 10airB.i
Operator: RTP
Column phase: J&W DB-5
Column diameter: 0.32



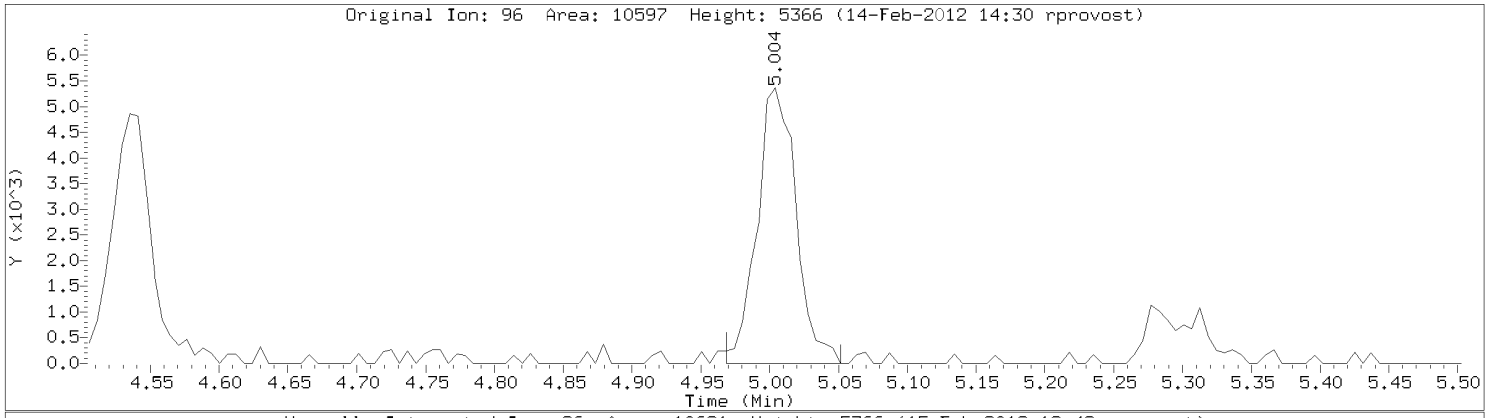
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Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15

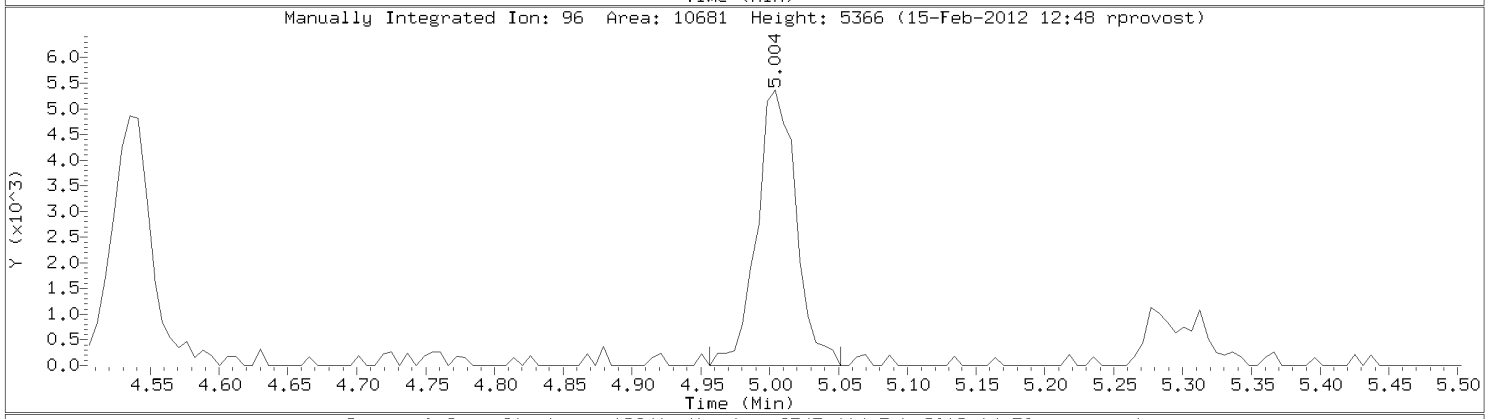
Compound: Chloroethane
CAS Number: 75-00-3

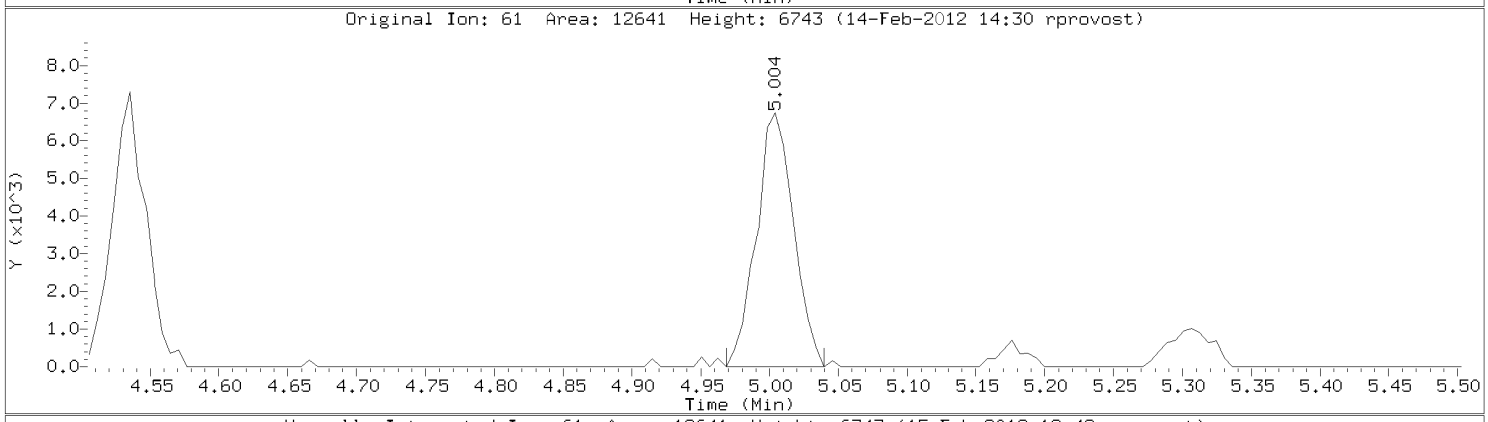


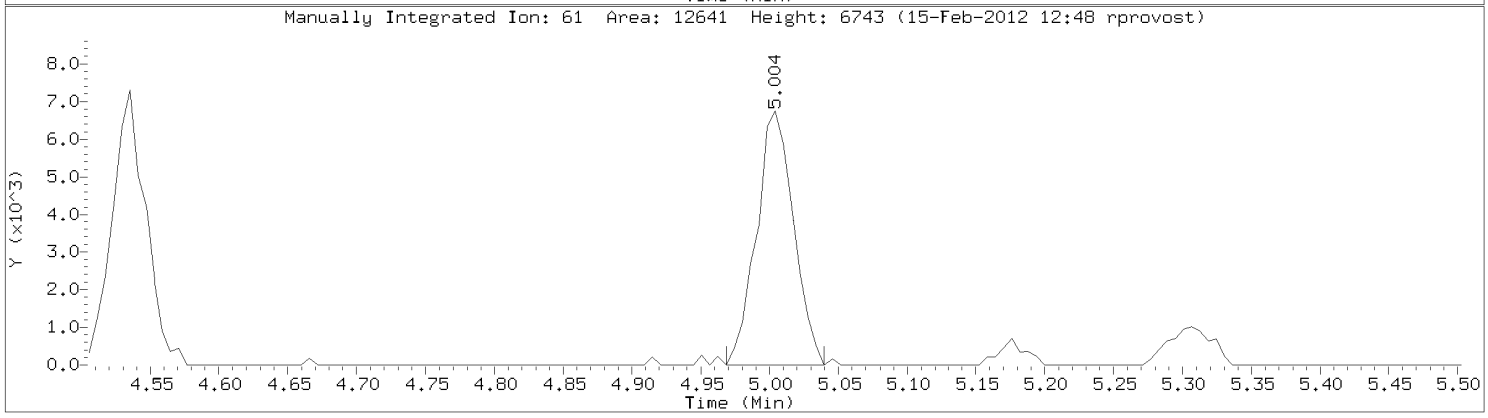
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Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15

Compound: trans-1,2-dichloroethene
CAS Number: 156-60-5

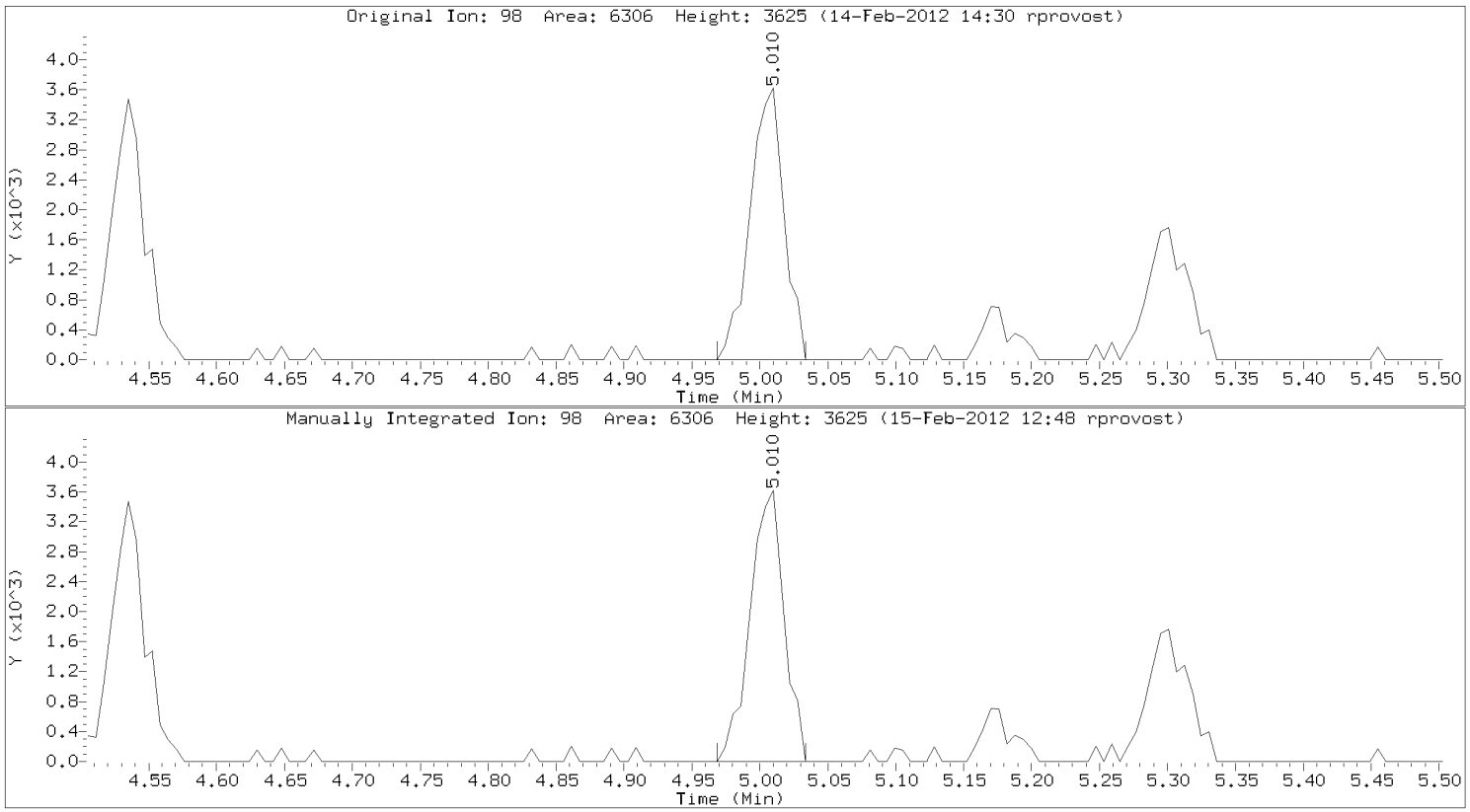






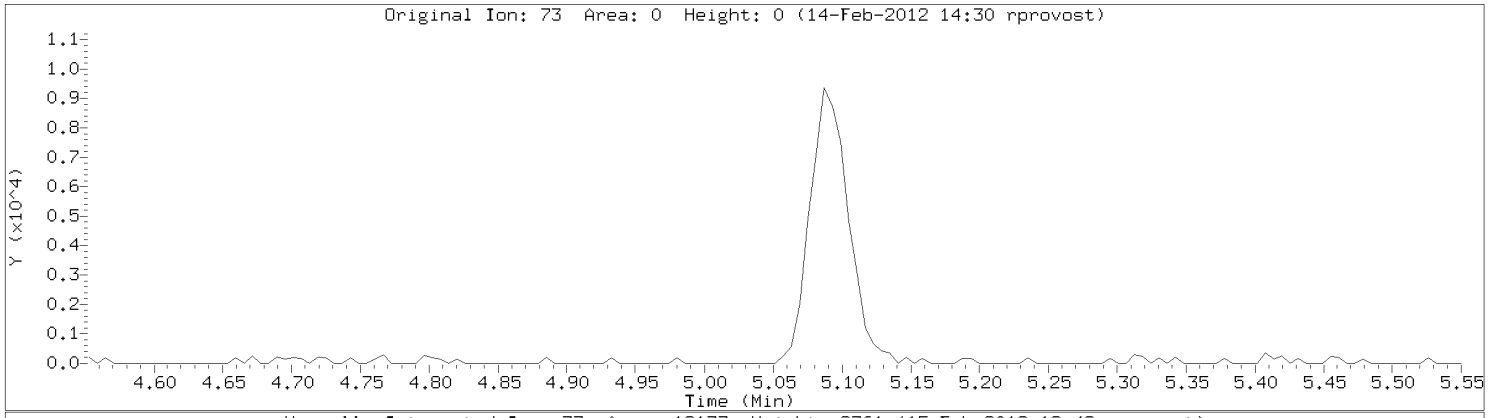


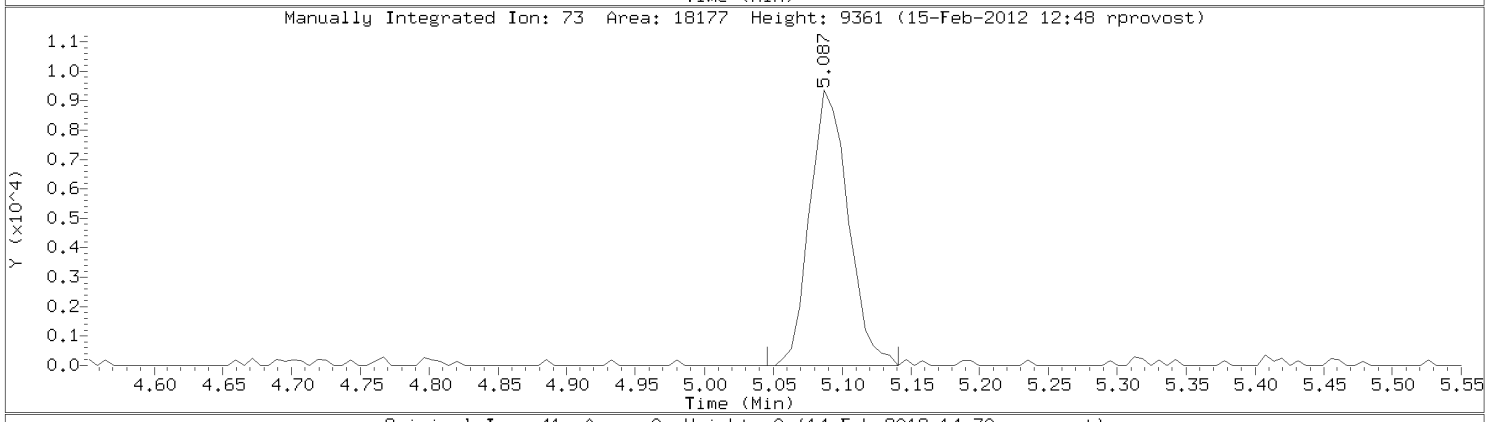
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Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15

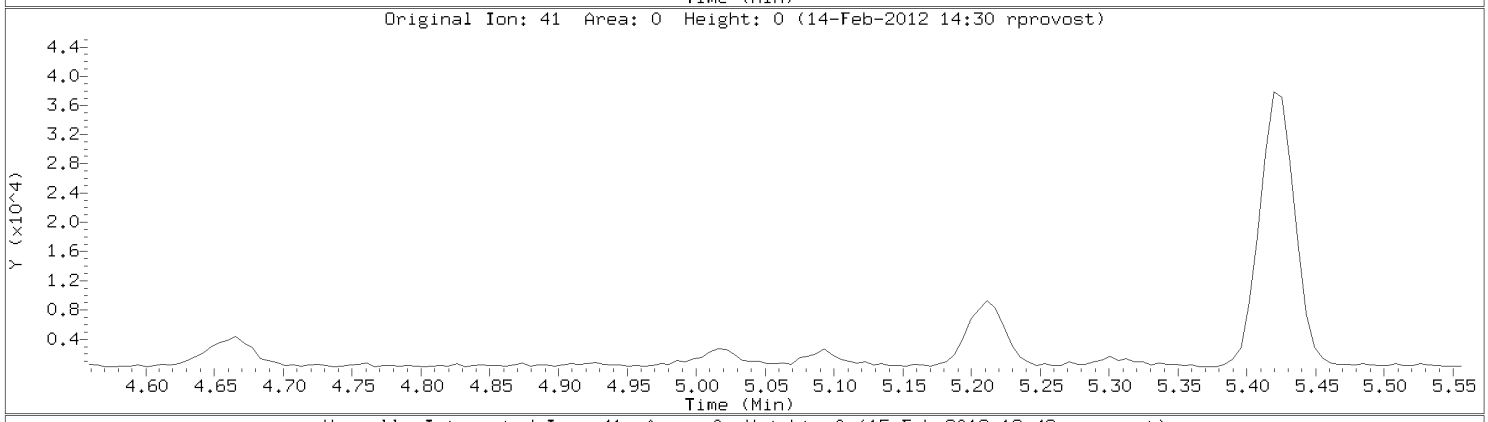


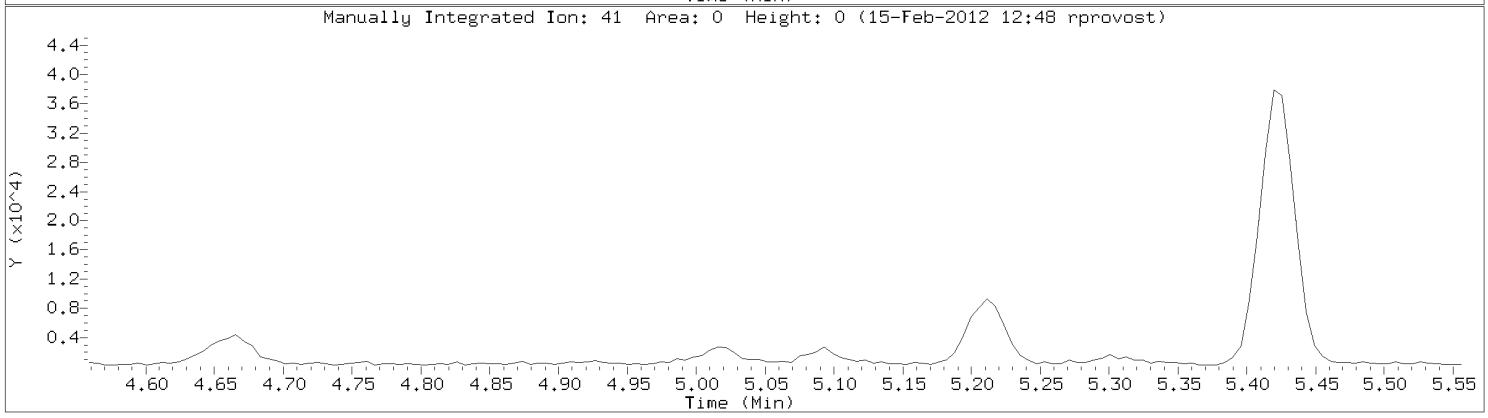
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Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



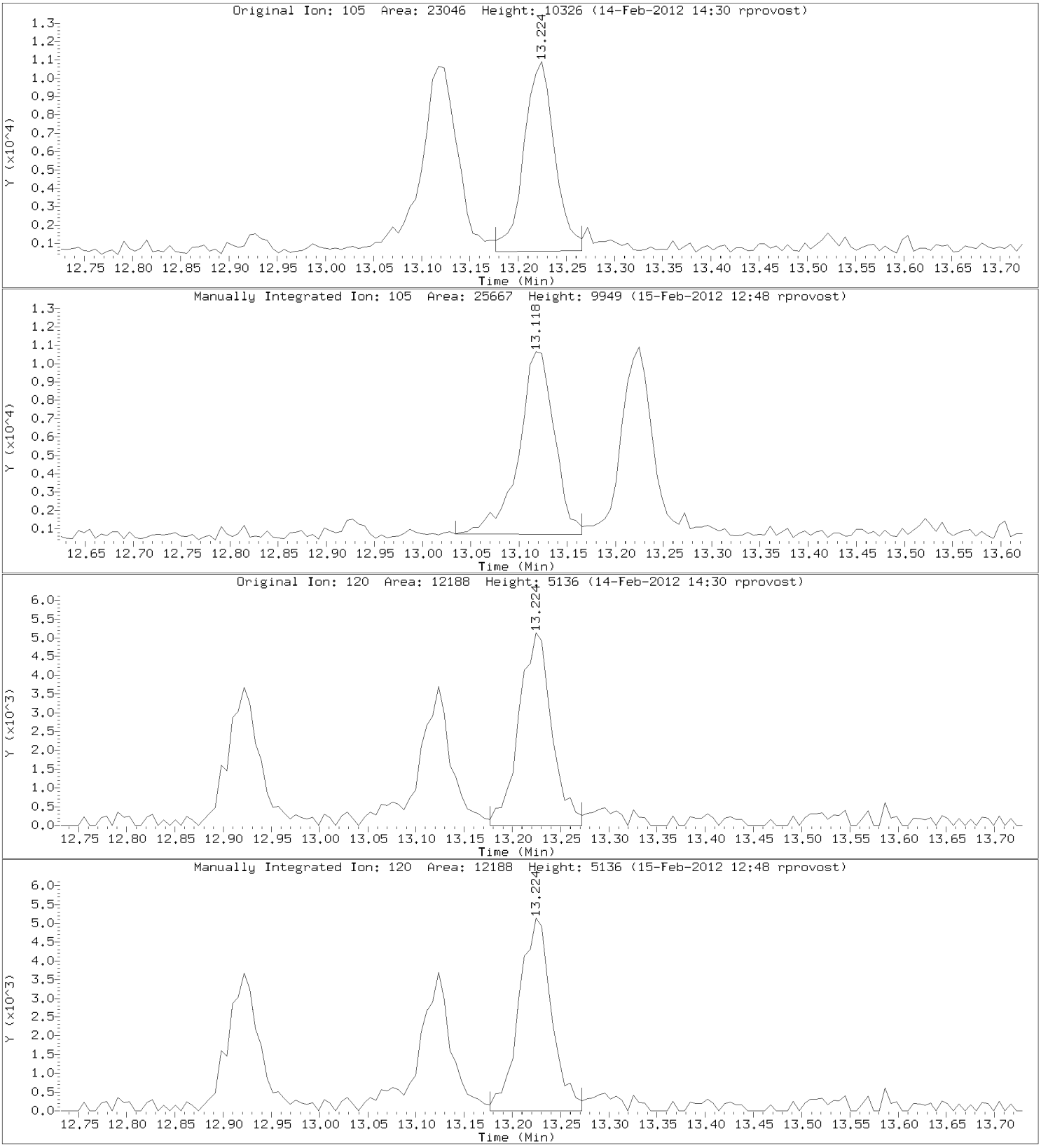




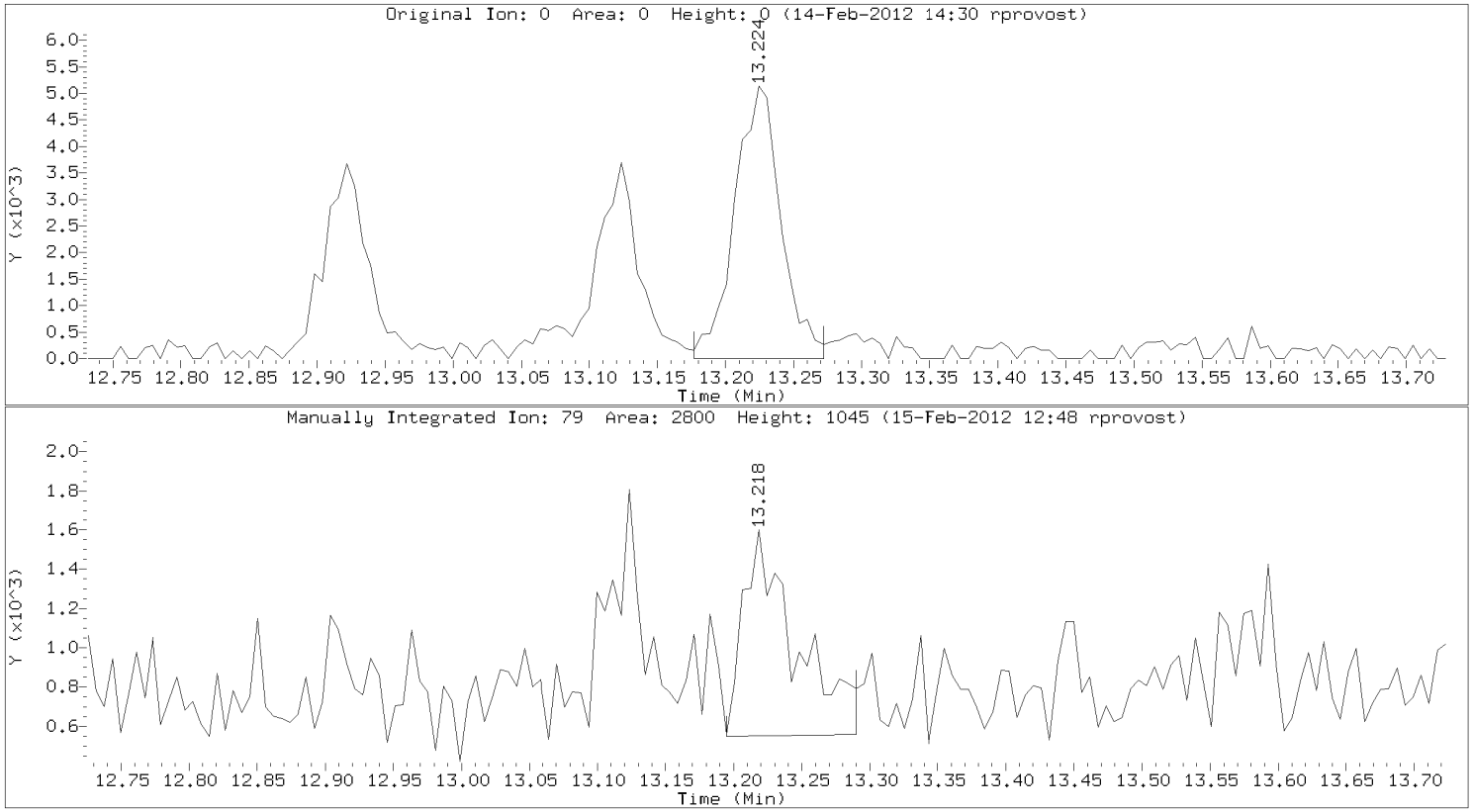


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04502.D
Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

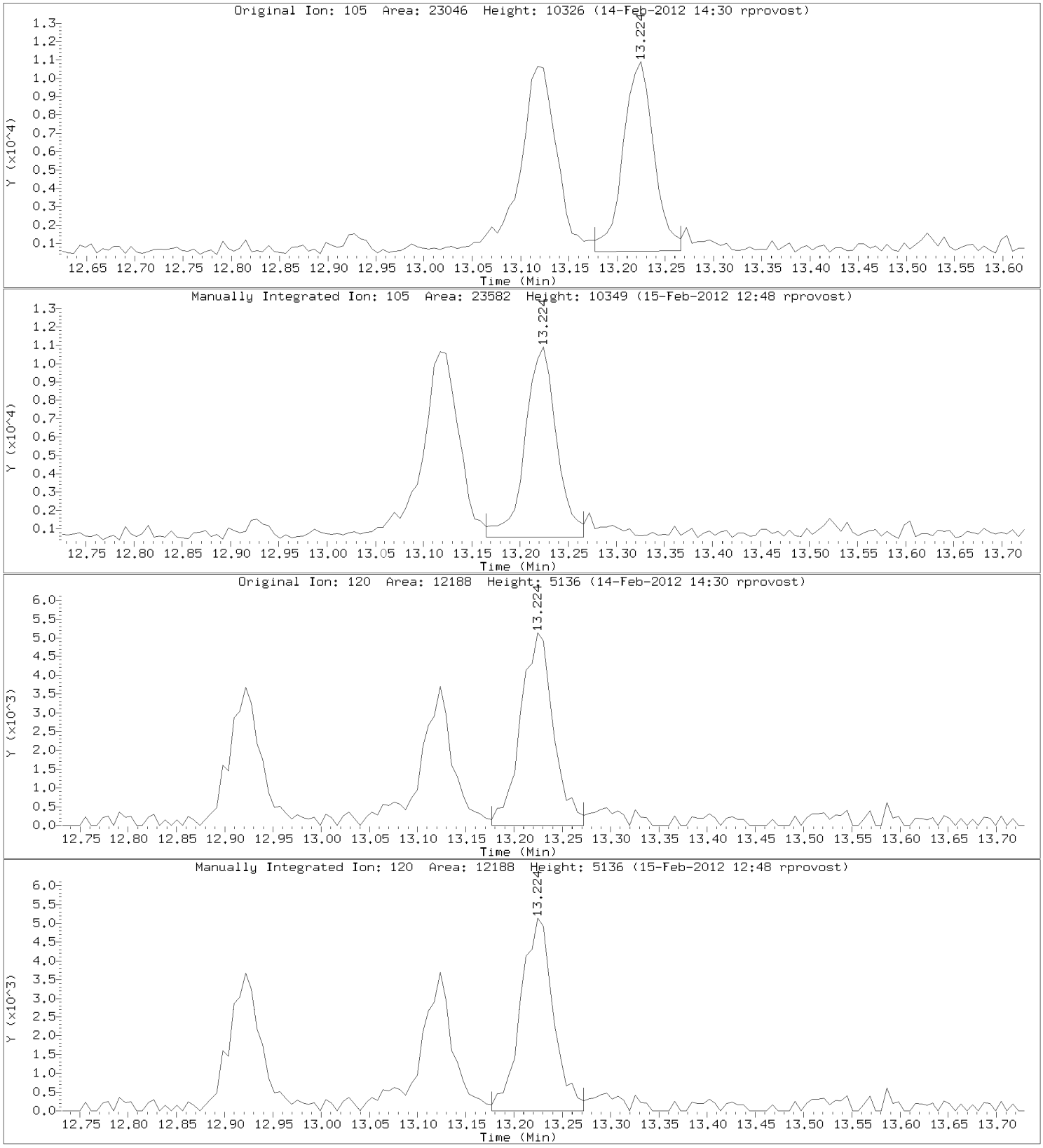


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Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04502.D
Injection Date: 14-FEB-2012 13:59
Instrument: 10airB.i
Lab Sample ID: ical 1 8137-59-15

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04503.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04503.D
Lab Smp Id: ical 2 8137-59-15
Inj Date : 14-FEB-2012 14:30
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 2 8137-59-15
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 13:59 Cal File: 04502.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
5	Vinyl chloride	62	3.686	3.686	(0.546)	12785	0.20000	0.204(a)
8	Chloroethane	64	3.965	3.965	(0.587)	5222	0.20000	0.201(M)
13	1,1-Dichloroethene	61	4.535	4.535	(0.671)	20951	0.20000	0.210
15	Methylene chloride	49	4.653	4.653	(0.689)	13071	0.20000	0.128(a)
16	Carbon Disulfide	76	4.808	4.808	(0.712)	26648	0.20000	0.207
17	trans-1,2-dichloroethene	96	5.009	5.009	(0.742)	17683	0.20000	0.208
18	Methyl Tert Butyl Ether	73	5.087	5.087	(0.753)	30758	0.20000	0.181(aM)
20	1,1-Dichloroethane	63	5.176	5.176	(0.766)	21180	0.20000	0.181(a)
$ 21	Hexane-d14(S)	66	5.300	5.300	(0.785)	702794	10.0000	9.93
24	cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	12111	0.20000	0.167(a)
27	Chloroform	83	5.739	5.739	(0.850)	24573	0.20000	0.178(a)
29	1,1,1-Trichloroethane	97	6.244	6.244	(0.924)	28461	0.20000	0.187(a)
30	1,2-Dichloroethane	62	6.268	6.268	(0.928)	15465	0.20000	0.175(a)
31	Benzene	78	6.547	6.547	(0.969)	35279	0.20000	0.176(a)
32	Carbon tetrachloride	117	6.570	6.570	(0.973)	28773	0.20000	0.196(a)
* 34	1,4-Difluorobenzene	114	6.754	6.754	(1.000)	1688699	10.0000	
38	Trichloroethene	130	7.217	7.217	(1.069)	16629	0.20000	0.176(a)
$ 43	Toluene-d8 (S)	98	8.576	8.576	(1.270)	1388661	10.0000	10.3
44	Toluene	91	8.666	8.666	(1.283)	51861	0.20000	0.0796(a)
45	1,1,2-Trichloroethane	97	8.671	8.671	(1.284)	12495	0.20000	0.172(aQ)
48	1,2-Dibromoethane	107	9.580	9.580	(0.915)	16707	0.20000	0.150(a)
49	Tetrachloroethene	166	9.675	9.675	(0.925)	21443	0.20000	0.151(a)
* 50	Chlorobenzene - d5	117	10.464	10.464	(1.000)	981720	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04503.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
51	Chlorobenzene	112	10.511	10.511	(1.005)	28256	0.20000	0.160(a)
52	Ethyl Benzene	91	10.808	10.808	(1.033)	34689	0.20000	0.142(a)
53	m&p-Xylene	91	10.986	10.986	(1.050)	59720	0.40000	0.286(a)
56	Styrene	104	11.491	11.491	(1.098)	23374	0.20000	0.133(a)
57	o-Xylene	91	11.568	11.568	(1.105)	23767	0.20000	0.131(a)
58	1,1,2,2-Tetrachloroethane	83	11.877	11.877	(1.135)	21540	0.20000	0.159(a)
59	Isopropylbenzene	105	12.250	12.250	(1.171)	42642	0.20000	0.158(a)
60	N-Propylbenzene	91	12.921	12.921	(1.235)	38265	0.20000	0.140(aA)
61	4-Ethyltoluene	105	13.117	13.117	(1.254)	29624	0.20000	0.144(M)
62	1,3,5-Trimethylbenzene	105	13.224	13.224	(1.264)	29962	0.20000	0.136(aM)
63	1,2,4-Trimethylbenzene	105	13.829	13.829	(1.322)	28612	0.20000	0.150(a)
64	1,3-Dichlorobenzene	146	14.191	14.191	(1.356)	26706	0.20000	0.162(a)
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.268	14.268	(1.364)	616790	10.0000	9.85
68	1,4-Dichlorobenzene	146	14.310	14.310	(1.368)	25366	0.20000	0.156(a)
69	1,2-Dichlorobenzene	146	14.832	14.832	(1.417)	22463	0.20000	0.158(a)
71	1,2,4-Trichlorobenzene	180	17.396	17.396	(1.662)	11851	0.20000	0.201(Q)
72	Naphthalene	128	17.574	17.574	(1.679)	23237	0.20000	0.203(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04503.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04503.D
Lab Smp Id: ical 2 8137-59-15
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

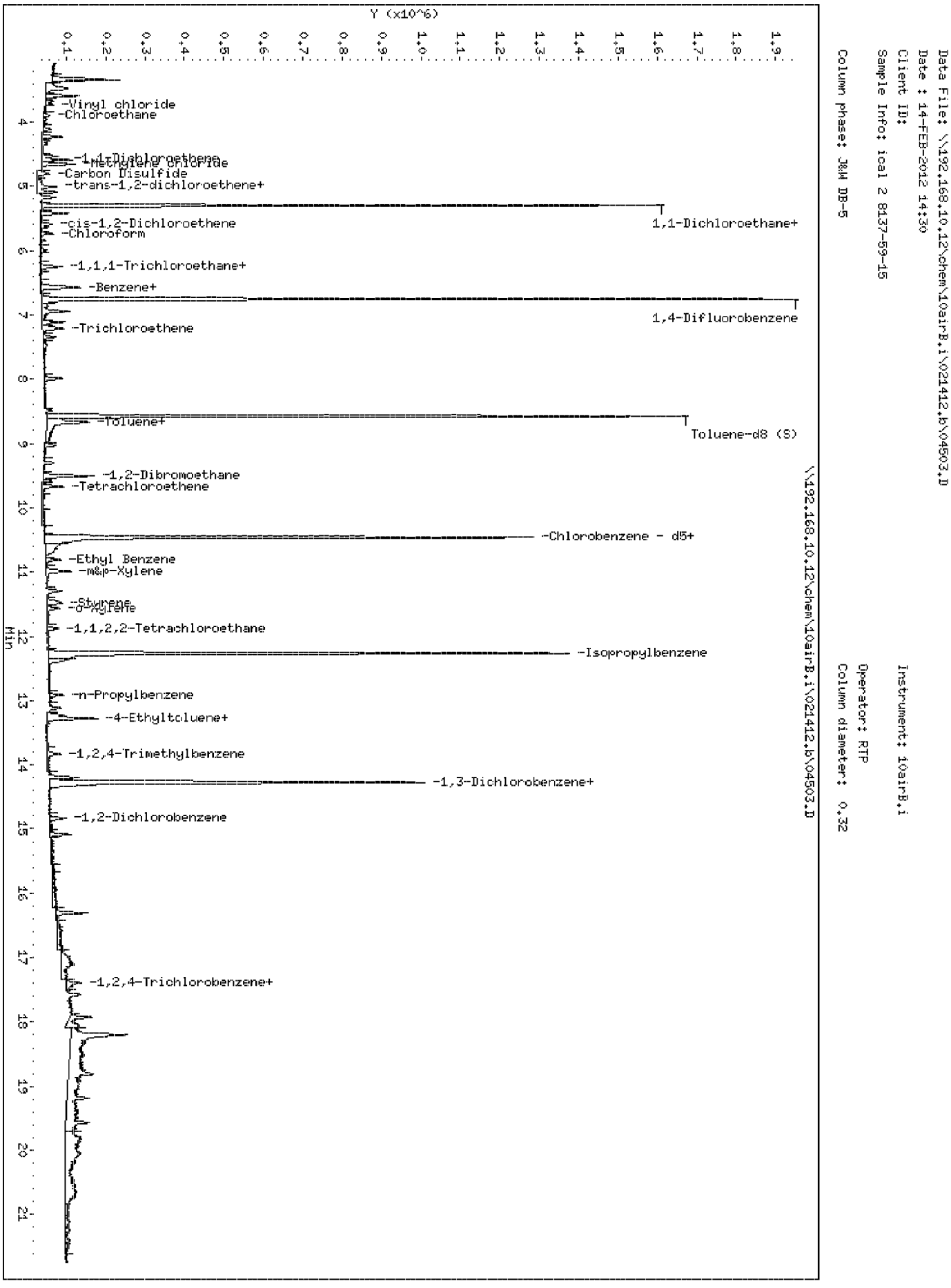
Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1688699	-1.31
50 Chlorobenzene - d	907290	544374	1270206	981720	8.20

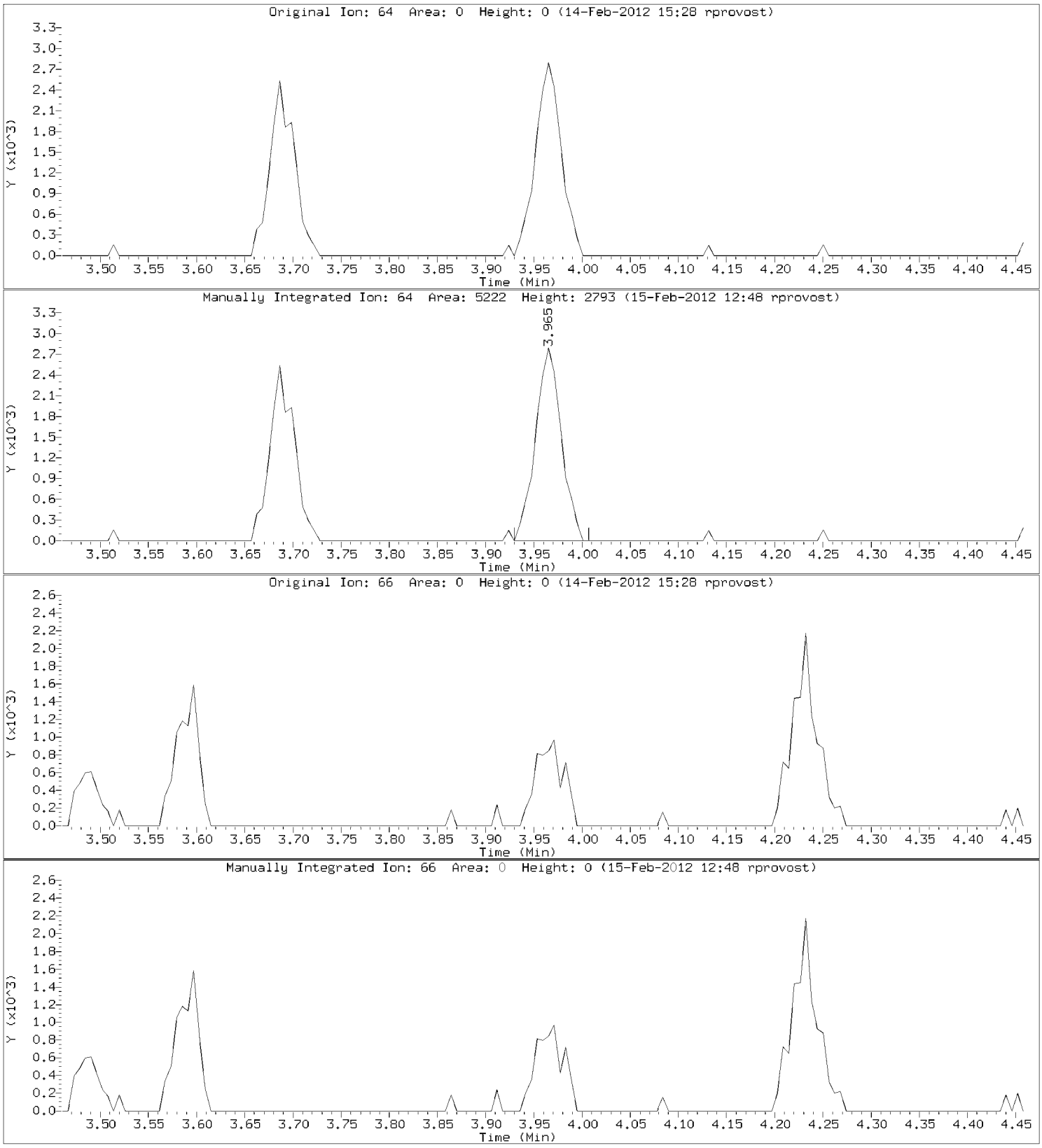
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: \\192.168.10.12\chem\10airB.i\021412.b\04503.D
Date : 14-FEB-2012 14:30
Client ID:
Sample Info: ical 2 8137-59-15
Column phase: J&W DB-5
Instrument: 10airB.i
Operator: RTP
Column diameter: 0.32
Y (x10^6)
Min
-Vinyl chloride
-Chloroethane
-Methylene chloride
-Carbon Disulfide
-trans-1,2-dichloroethene+
-cis-1,2-Dichloroethene
-Chloroform
1,1-Dichloroethane+
-1,1,1-Trichloroethane+
-Benzene+
1,4-Difluorobenzene
-Trichloroethene
-Toluene+
Toluene-d8 (S)
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
-m&p-Xylene
-Styrene
-o-Xylene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-n-Propylbenzene
-4-Ethyltoluene+
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene+
-1,2-Dichlorobenzene
-1,2,4-Trichlorobenzene+
\\192.168.10.12\chem\10airB.i\021412.b\04503.D

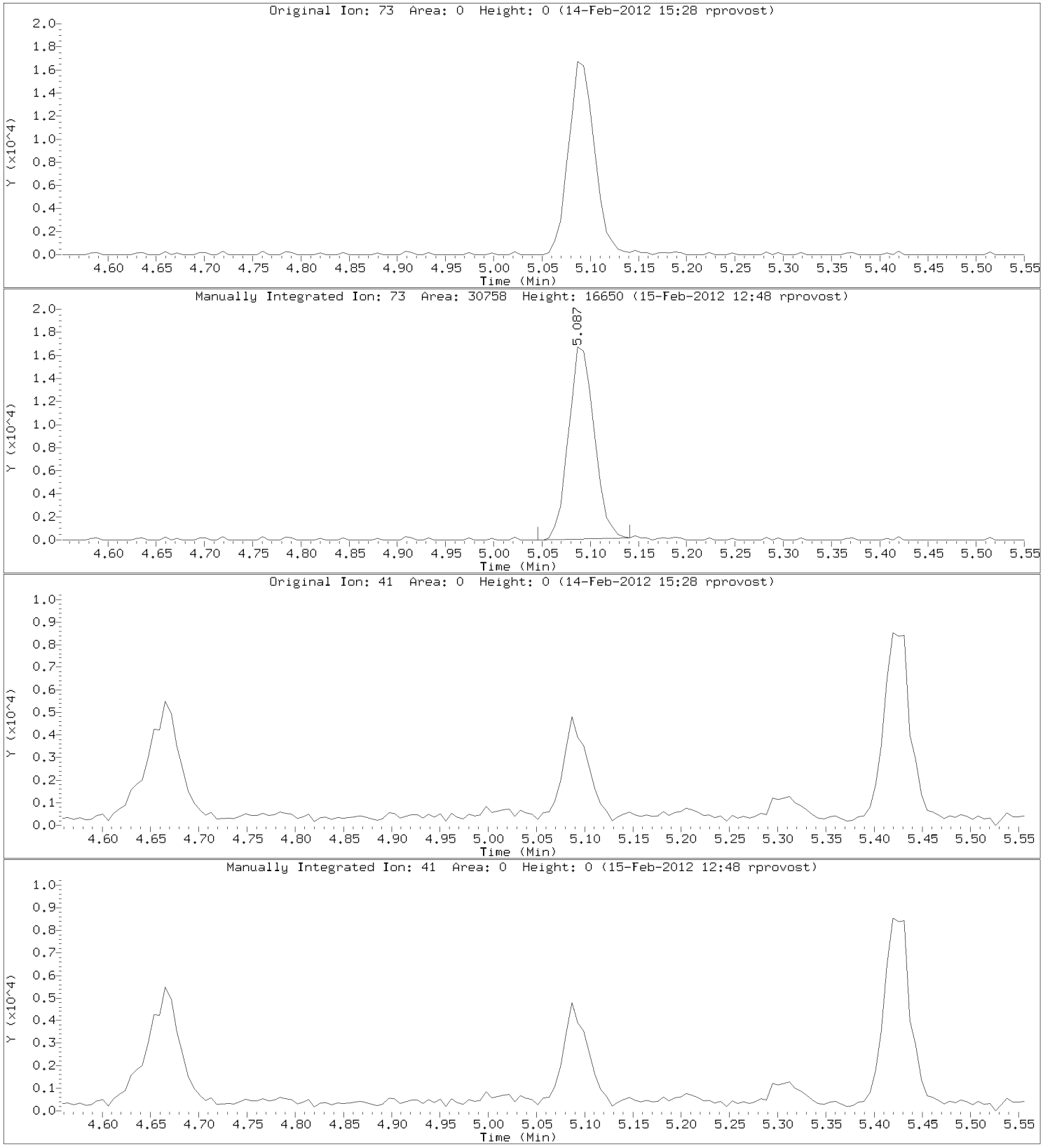
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04503.D
Injection Date: 14-FEB-2012 14:30
Instrument: 10airB.i
Lab Sample ID: ical 2 8137-59-15

Compound: Chloroethane
CAS Number: 75-00-3



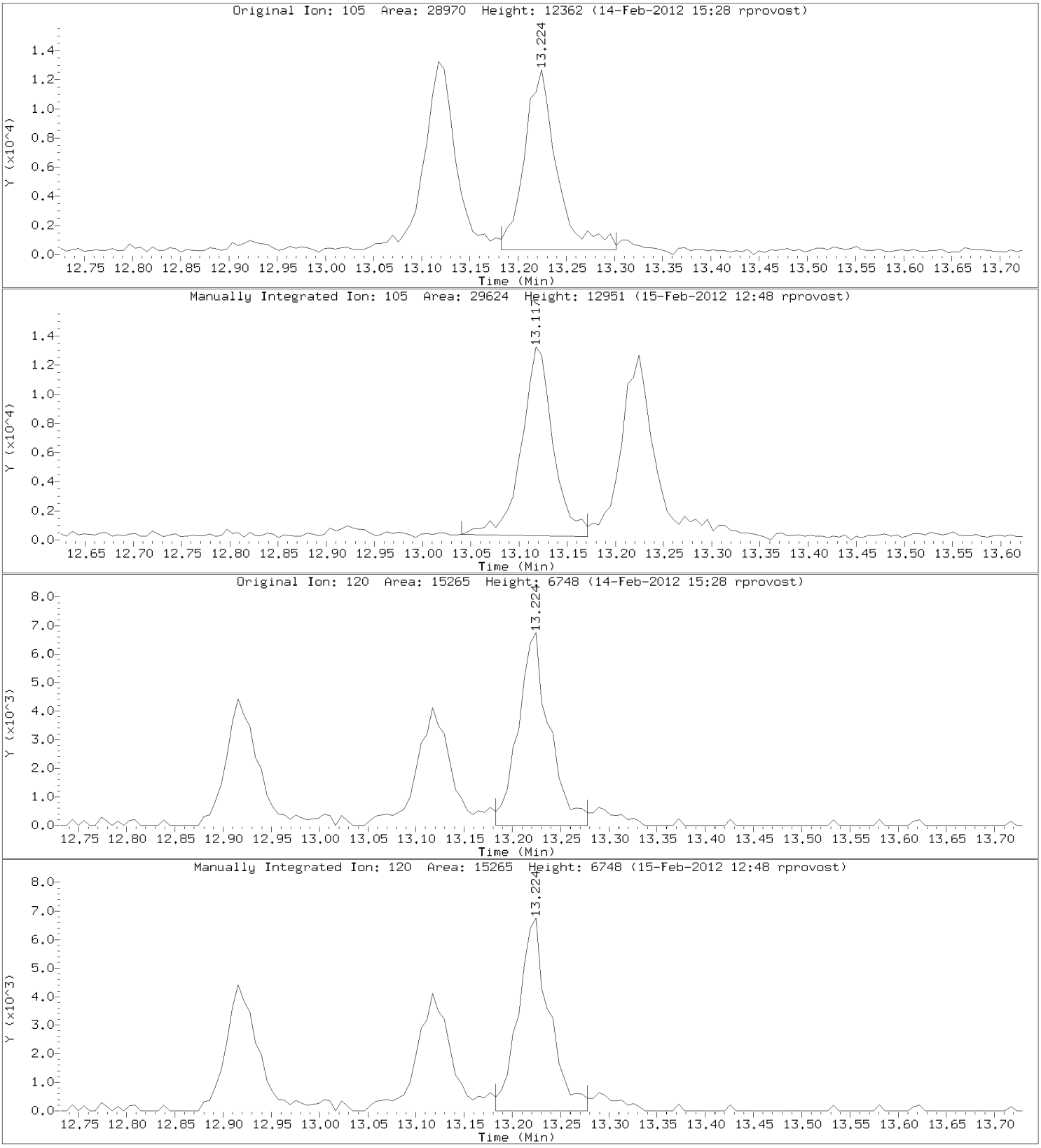
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04503.D
Injection Date: 14-FEB-2012 14:30
Instrument: 10airB.i
Lab Sample ID: ical 2 8137-59-15

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4

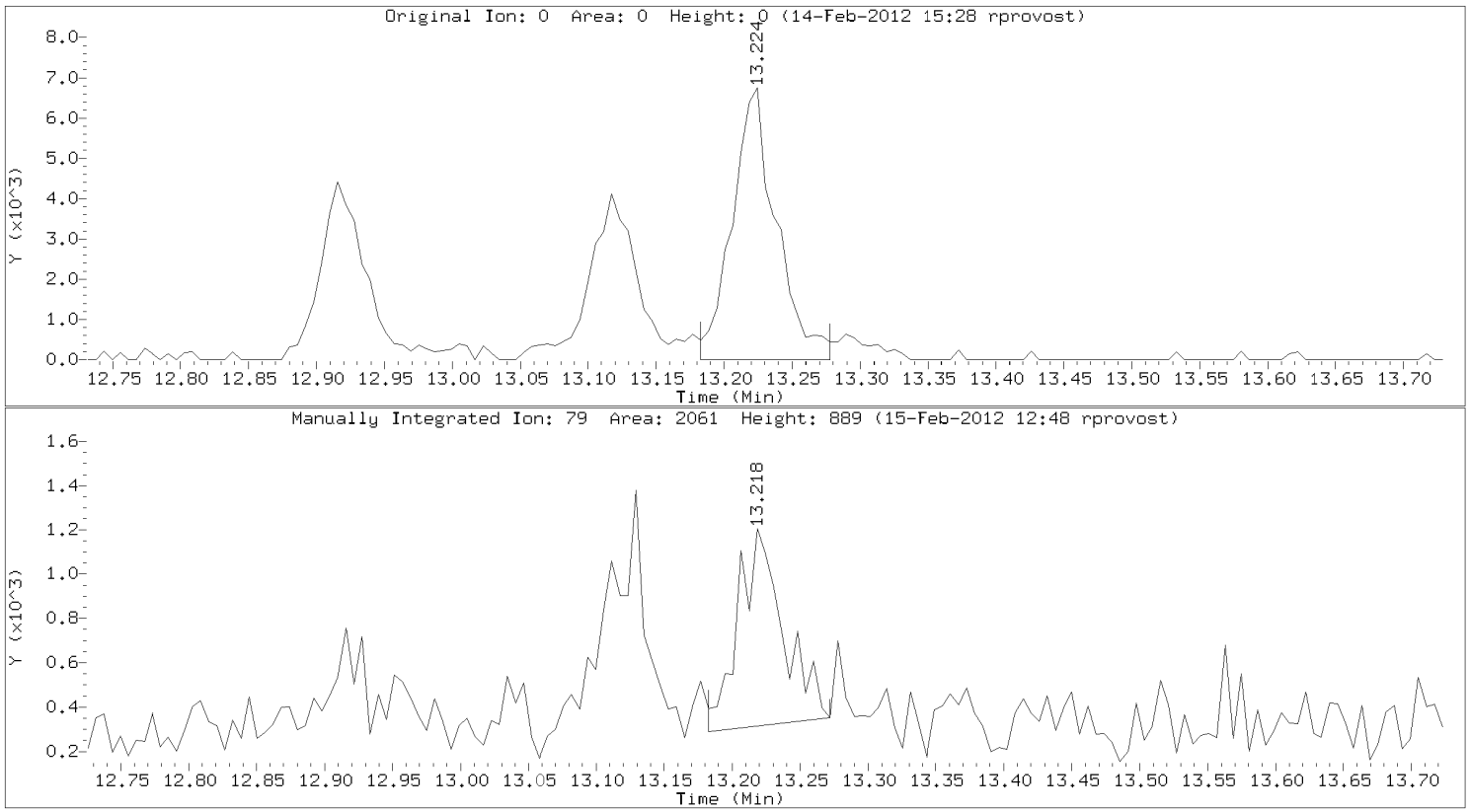


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04503.D
Injection Date: 14-FEB-2012 14:30
Instrument: 10airB.i
Lab Sample ID: ical 2 8137-59-15

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

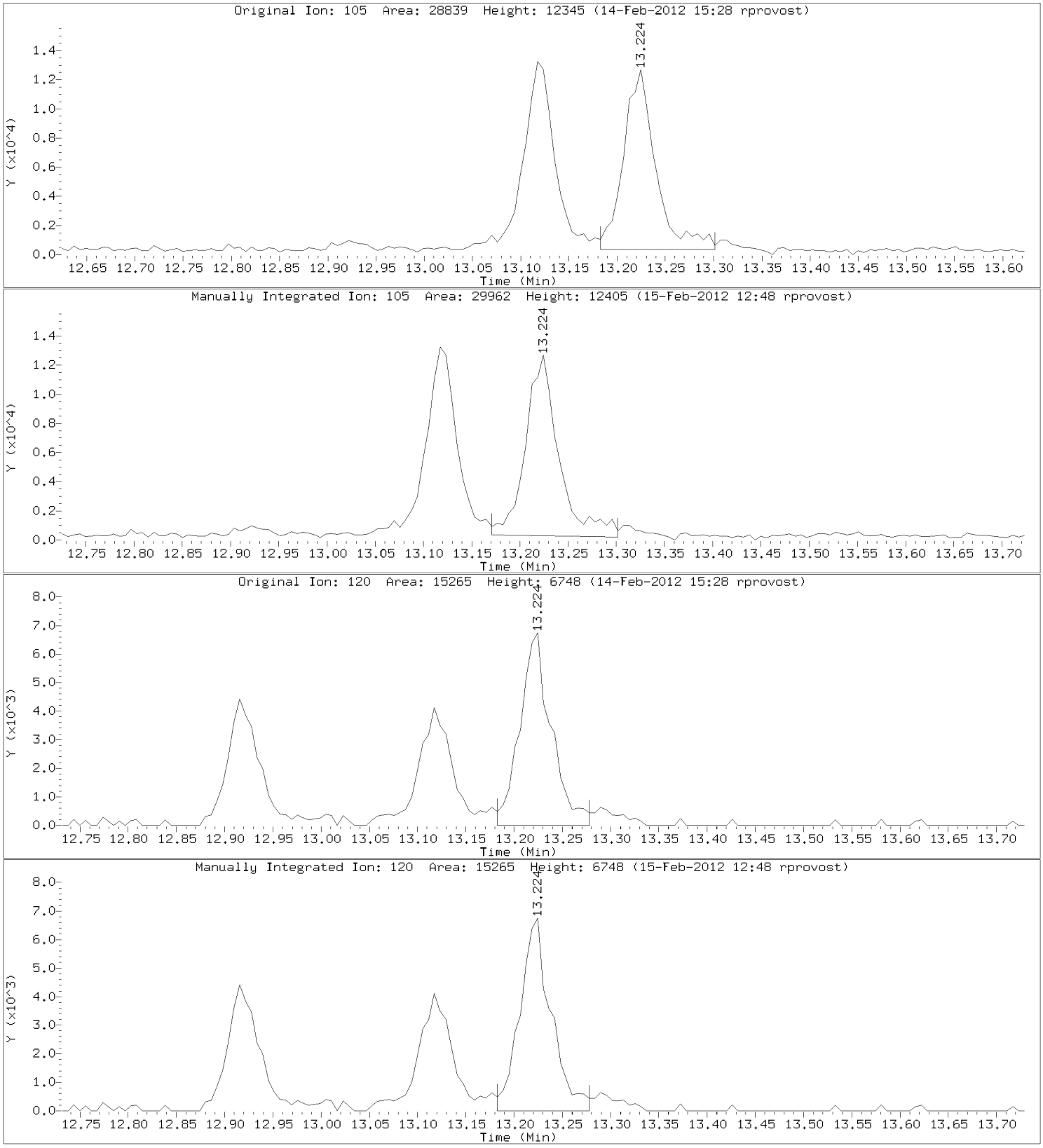


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04503.D
Injection Date: 14-FEB-2012 14:30
Instrument: 10airB.i
Lab Sample ID: ical 2 8137-59-15



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04503.D
Injection Date: 14-FEB-2012 14:30
Instrument: 10airB.i
Lab Sample ID: ical 2 8137-59-15

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04504.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04504.D
Lab Smp Id: ical 3 8137-59-15
Inj Date : 14-FEB-2012 15:01
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 3 8137-59-15
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 14:30 Cal File: 04503.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	30530	0.50000	0.551
	8 Chloroethane	64	3.959	3.959	(0.586)	13327	0.50000	0.582(M)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	49651	0.50000	0.564
	15 Methylene chloride	49	4.653	4.653	(0.689)	27733	0.50000	0.308
	16 Carbon Disulfide	76	4.808	4.808	(0.712)	55531	0.50000	0.488
	17 trans-1,2-dichloroethene	96	5.009	5.009	(0.742)	39865	0.50000	0.531
	18 Methyl Tert Butyl Ether	73	5.081	5.081	(0.752)	85052	0.50000	0.568(M)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	56748	0.50000	0.550
$	21 Hexane-d14(S)	66	5.294	5.294	(0.784)	640539	10.0000	10.3
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	33492	0.50000	0.524(Q)
	27 Chloroform	83	5.734	5.734	(0.849)	66432	0.50000	0.546
	29 1,1,1-Trichloroethane	97	6.244	6.244	(0.924)	76284	0.50000	0.570
	30 1,2-Dichloroethane	62	6.262	6.262	(0.927)	41733	0.50000	0.536
	31 Benzene	78	6.547	6.547	(0.969)	95618	0.50000	0.541
	32 Carbon tetrachloride	117	6.570	6.570	(0.973)	64192	0.50000	0.496
*	34 1,4-Difluorobenzene	114	6.754	6.754	(1.000)	1489167	10.0000	
	38 Trichloroethene	130	7.217	7.217	(1.069)	43445	0.50000	0.522
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1178837	10.0000	9.92
	44 Toluene	91	8.666	8.666	(1.283)	106682	0.50000	0.186(a)
	45 1,1,2-Trichloroethane	97	8.671	8.671	(1.284)	31170	0.50000	0.486
	48 1,2-Dibromoethane	107	9.580	9.580	(0.915)	42129	0.50000	0.487
	49 Tetrachloroethene	166	9.669	9.669	(0.924)	55640	0.50000	0.504
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	762392	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04504.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
51	Chlorobenzene	112	10.511	10.511	(1.005)	71263	0.50000	0.519
52	Ethyl Benzene	91	10.808	10.808	(1.033)	91572	0.50000	0.482
53	m&p-Xylene	91	10.986	10.986	(1.050)	156071	1.00000	0.962
56	Styrene	104	11.485	11.485	(1.098)	57634	0.50000	0.422
57	o-Xylene	91	11.562	11.562	(1.105)	62510	0.50000	0.444
58	1,1,2,2-Tetrachloroethane	83	11.882	11.882	(1.136)	53883	0.50000	0.513
59	Isopropylbenzene	105	12.245	12.245	(1.170)	110289	0.50000	0.525
60	N-Propylbenzene	91	12.915	12.915	(1.234)	99349	0.50000	0.469(A)
61	4-Ethyltoluene	105	13.117	13.117	(1.254)	77428	0.50000	0.483(QH)
62	1,3,5-Trimethylbenzene	105	13.218	13.218	(1.263)	84825	0.50000	0.496
63	1,2,4-Trimethylbenzene	105	13.835	13.835	(1.322)	70883	0.50000	0.478
64	1,3-Dichlorobenzene	146	14.191	14.191	(1.356)	69436	0.50000	0.544
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.268	14.268	(1.364)	500238	10.0000	10.3
68	1,4-Dichlorobenzene	146	14.310	14.310	(1.368)	68535	0.50000	0.543
69	1,2-Dichlorobenzene	146	14.832	14.832	(1.417)	58310	0.50000	0.530
71	1,2,4-Trichlorobenzene	180	17.396	17.396	(1.662)	35393	0.50000	0.775
72	Naphthalene	128	17.574	17.574	(1.679)	65292	0.50000	0.734

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04504.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04504.D
Lab Smp Id: ical 3 8137-59-15
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

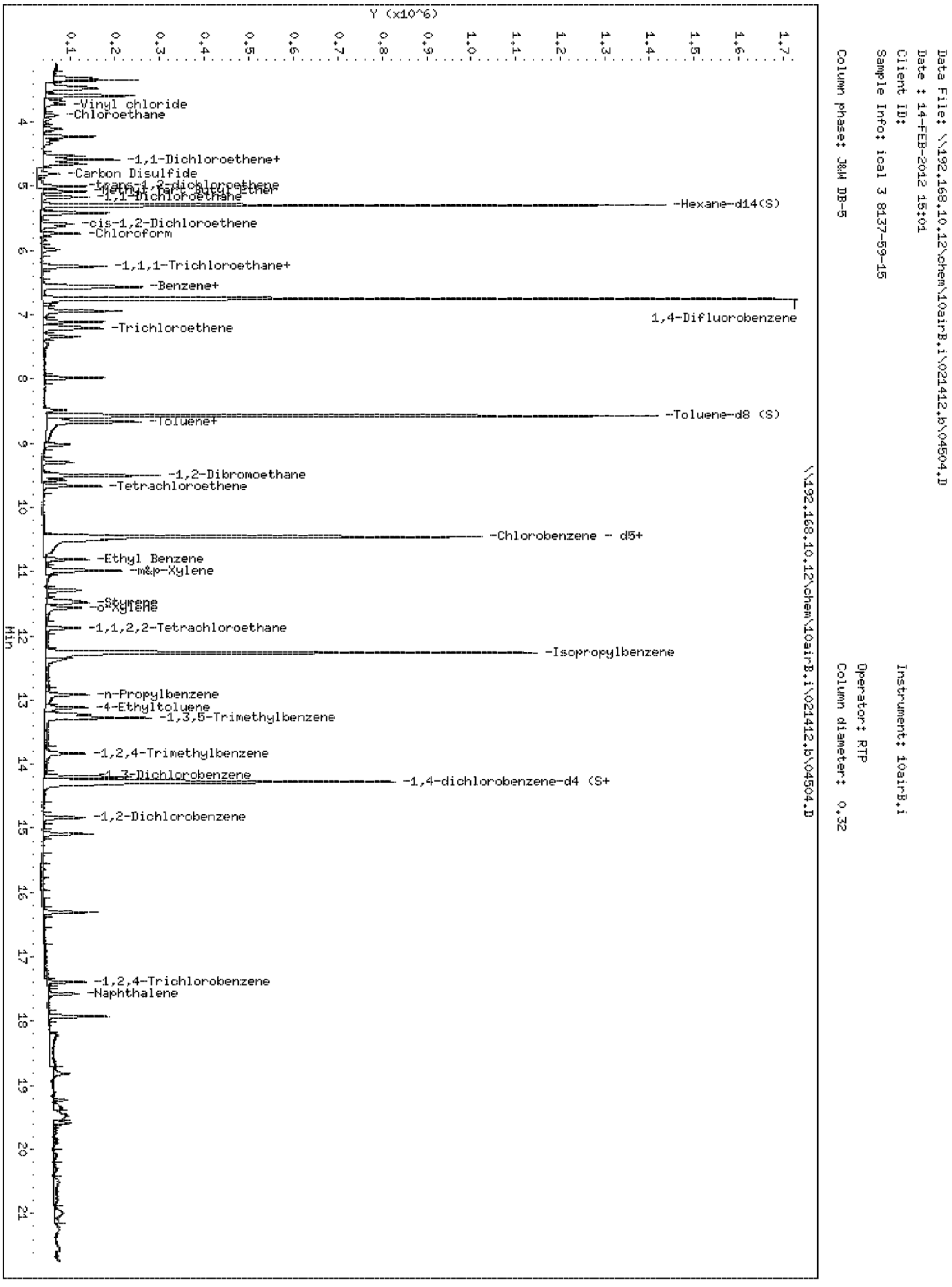
Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1489167	-12.97
50 Chlorobenzene - d	907290	544374	1270206	762392	-15.97

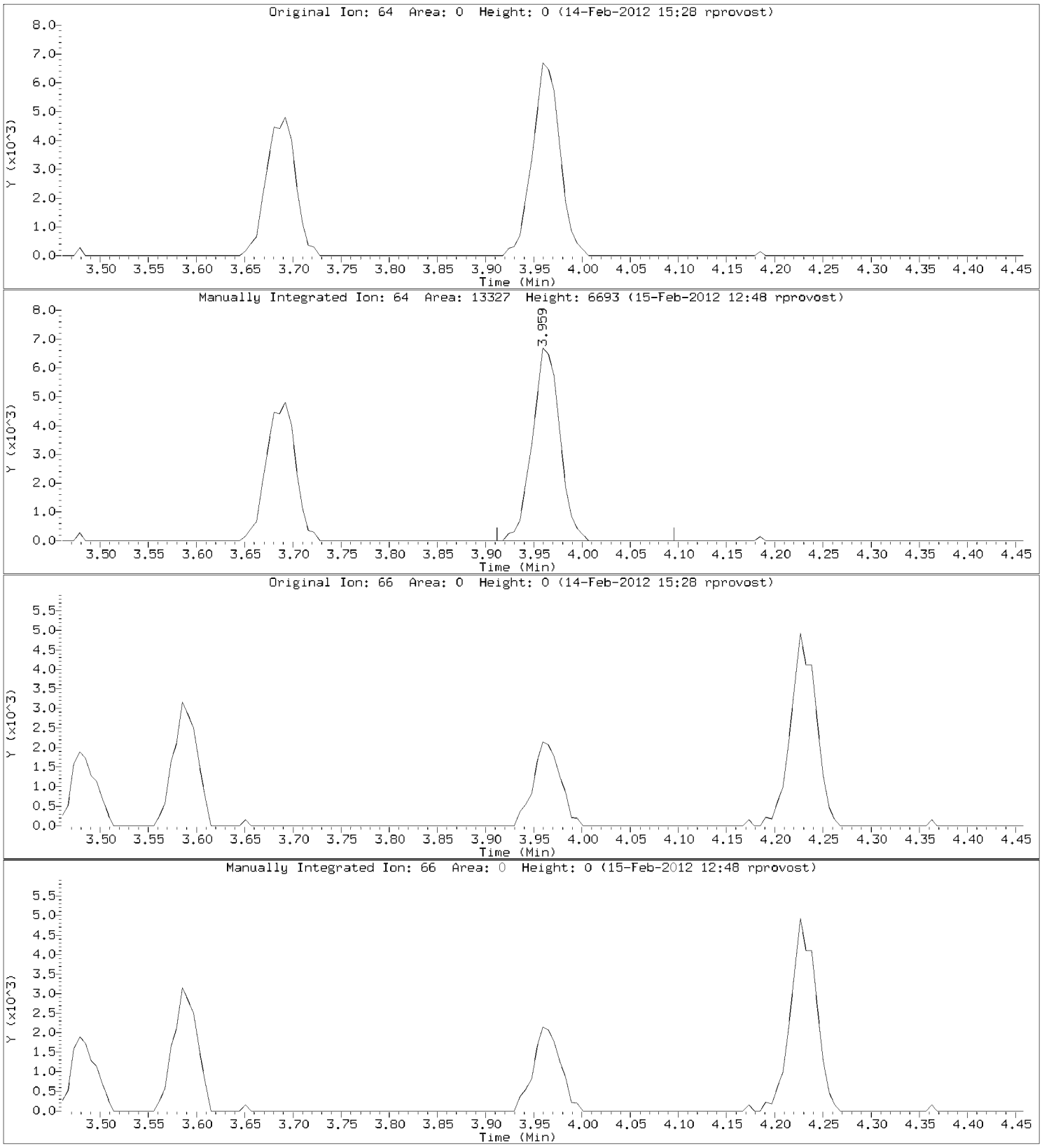
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: \\192.168.10.12\chem\10airB.i\021412.b\04504.D
Date : 14-FEB-2012 15:01
Client ID:
Sample Info: ical 3 8137-59-15
Column phase: J&W DB-5
Instrument: 10airB.i
Operator: RTP
Column diameter: 0.32
Y (x10^6)
Min
-Vinyl chloride
-Chloroethane
-1,1-Dichloroethene+
-Carbon Disulfide
-trans-1,2-dichloroethene
-Methyl tert-butyl ether
-1,1-Dichloroethane
-Hexane-d14(S)
-cis-1,2-Dichloroethene
-Chloroform
-1,1,1-Trichloroethane+
-Benzene+
1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8 (S)
-Toluene+
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
-m&p-Xylene
-Styrene
-o-Xylene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-n-Propylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene
-1,4-dichlorobenzene-d4 (S+
-1,2-Dichlorobenzene
-1,2,4-Trichlorobenzene
-Naphthalene
\\192.168.10.12\chem\10airB.i\021412.b\04504.D

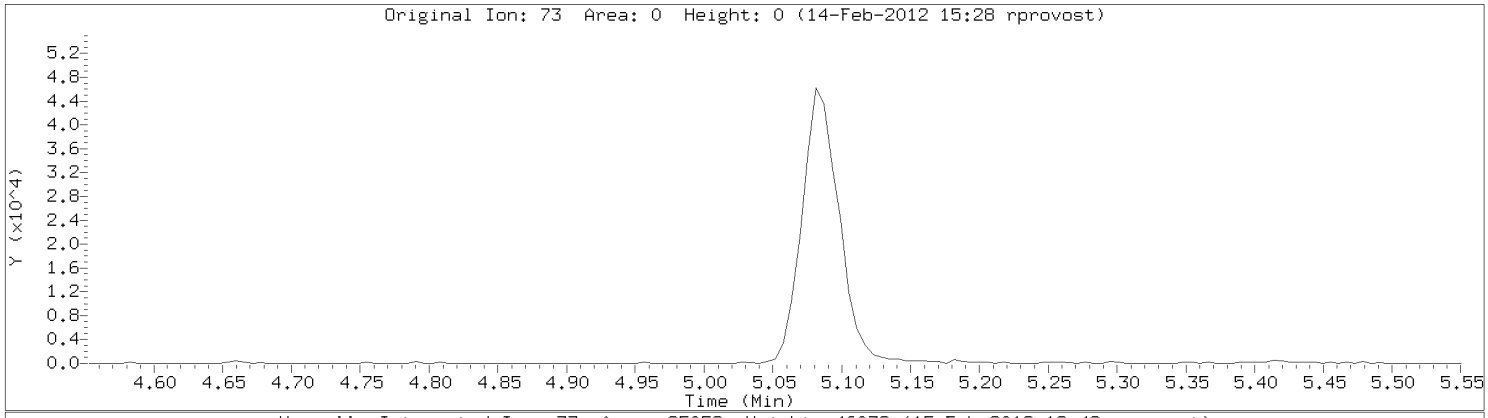
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04504.D
Injection Date: 14-FEB-2012 15:01
Instrument: 10airB.i
Lab Sample ID: ical 3 8137-59-15

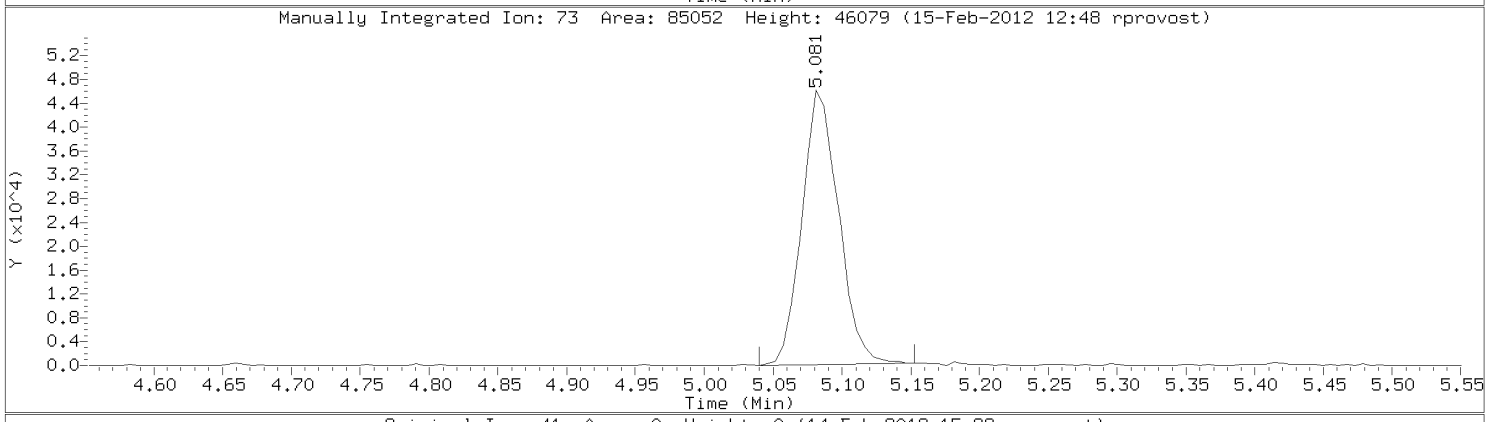
Compound: Chloroethane
CAS Number: 75-00-3

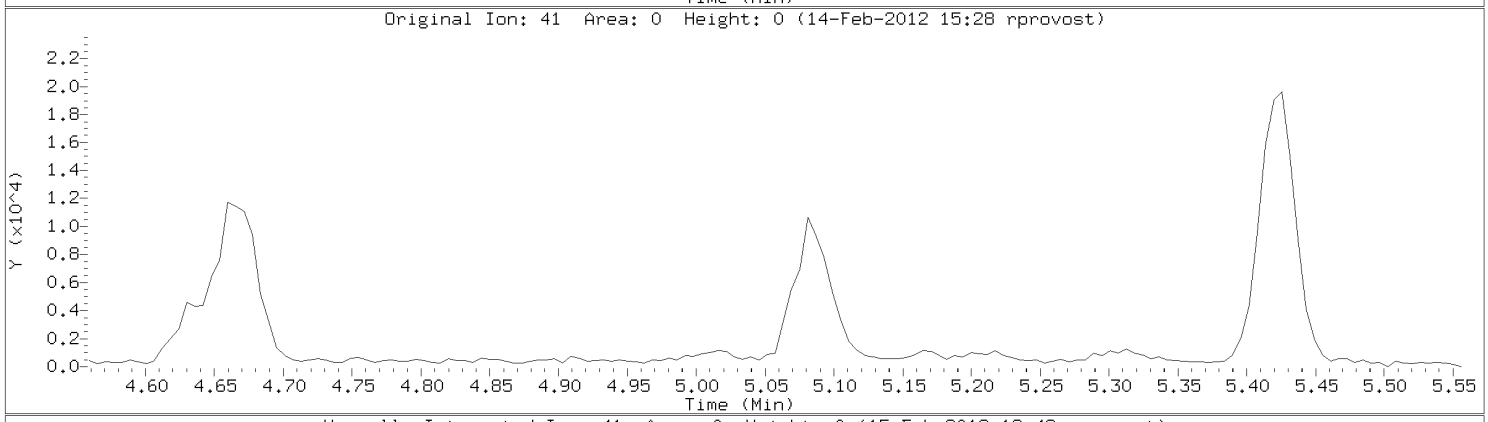


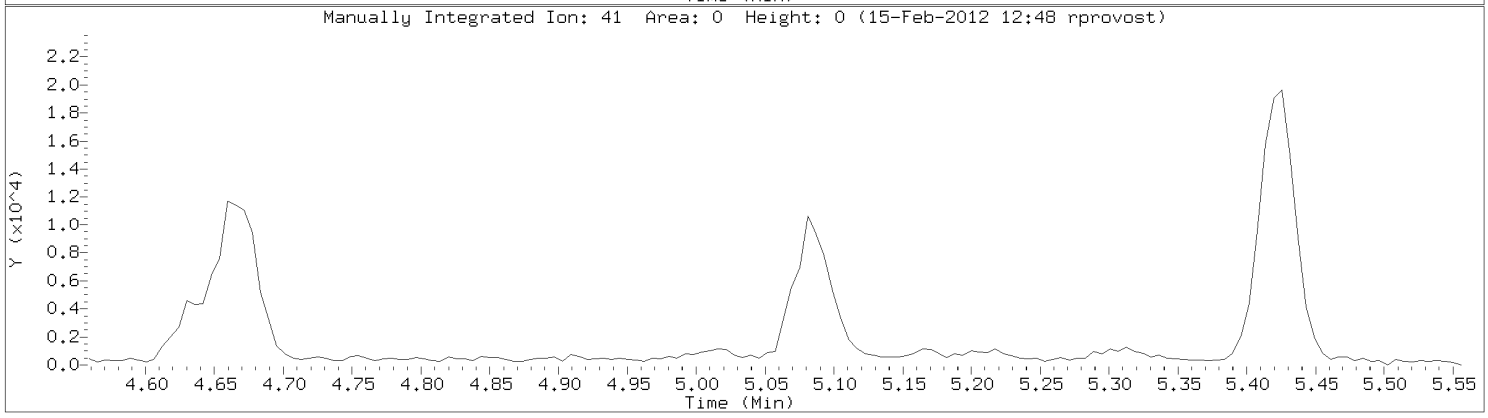
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04504.D
Injection Date: 14-FEB-2012 15:01
Instrument: 10airB.i
Lab Sample ID: ical 3 8137-59-15

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4









Data File: \\192.168.10.12\chem\10airB.i\021412.b\04505.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04505.D
Lab Smp Id: ical 4 8137-59-15
Inj Date : 14-FEB-2012 15:33
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 4 8137-59-15
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 15:01 Cal File: 04504.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	62233	1.00000	0.974
	8 Chloroethane	64	3.965	3.965	(0.587)	24768	1.00000	0.937(M)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	97231	1.00000	0.958
	15 Methylene chloride	49	4.653	4.653	(0.689)	52937	1.00000	0.509
	16 Carbon Disulfide	76	4.808	4.808	(0.712)	108878	1.00000	0.830
	17 trans-1,2-dichloroethene	96	5.004	5.004	(0.741)	80947	1.00000	0.935
	18 Methyl Tert Butyl Ether	73	5.081	5.081	(0.752)	163075	1.00000	0.943(M)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	118523	1.00000	0.997
$	21 Hexane-d14(S)	66	5.300	5.300	(0.785)	667363	10.0000	9.27
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	70885	1.00000	0.962
	27 Chloroform	83	5.740	5.740	(0.850)	138264	1.00000	0.985
	29 1,1,1-Trichloroethane	97	6.244	6.244	(0.924)	151106	1.00000	0.978
	30 1,2-Dichloroethane	62	6.262	6.262	(0.927)	87577	1.00000	0.975
	31 Benzene	78	6.547	6.547	(0.969)	204685	1.00000	1.00
	32 Carbon tetrachloride	117	6.570	6.570	(0.973)	133247	1.00000	0.892
*	34 1,4-Difluorobenzene	114	6.754	6.754	(1.000)	1717900	10.0000	
	38 Trichloroethene	130	7.217	7.217	(1.069)	96787	1.00000	1.01
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1386717	10.0000	10.1
	44 Toluene	91	8.666	8.666	(1.283)	233636	1.00000	0.352
	45 1,1,2-Trichloroethane	97	8.672	8.672	(1.284)	66568	1.00000	0.901
	48 1,2-Dibromoethane	107	9.580	9.580	(0.915)	97122	1.00000	0.903
	49 Tetrachloroethene	166	9.675	9.675	(0.925)	127166	1.00000	0.925
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	949009	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04505.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
51	Chlorobenzene	112	10.511	10.511	(1.005)	155347	1.00000	0.910
52	Ethyl Benzene	91	10.808	10.808	(1.033)	220361	1.00000	0.932
53	m&p-Xylene	91	10.986	10.986	(1.050)	381094	2.00000	1.89
56	Styrene	104	11.485	11.485	(1.098)	162270	1.00000	0.955(M)
57	o-Xylene	91	11.568	11.568	(1.105)	158843	1.00000	0.907
58	1,1,2,2-Tetrachloroethane	83	11.877	11.877	(1.135)	115979	1.00000	0.888
59	Isopropylbenzene	105	12.251	12.251	(1.171)	241327	1.00000	0.922
60	N-Propylbenzene	91	12.915	12.915	(1.234)	243876	1.00000	0.926(AM)
61	4-Ethyltoluene	105	13.117	13.117	(1.254)	175626	1.00000	0.880(QM)
62	1,3,5-Trimethylbenzene	105	13.218	13.218	(1.263)	193074	1.00000	0.907
63	1,2,4-Trimethylbenzene	105	13.829	13.829	(1.322)	158506	1.00000	0.859
64	1,3-Dichlorobenzene	146	14.191	14.191	(1.356)	146783	1.00000	0.924
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.269	14.269	(1.364)	597517	10.0000	9.87
68	1,4-Dichlorobenzene	146	14.310	14.310	(1.368)	145979	1.00000	0.930
69	1,2-Dichlorobenzene	146	14.832	14.832	(1.417)	122620	1.00000	0.895
71	1,2,4-Trichlorobenzene	180	17.391	17.391	(1.662)	45219	1.00000	0.795
72	Naphthalene	128	17.575	17.575	(1.679)	75035	1.00000	0.678

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04505.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04505.D
Lab Smp Id: ical 4 8137-59-15
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1717900	0.39
50 Chlorobenzene - d	907290	544374	1270206	949009	4.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	0.00

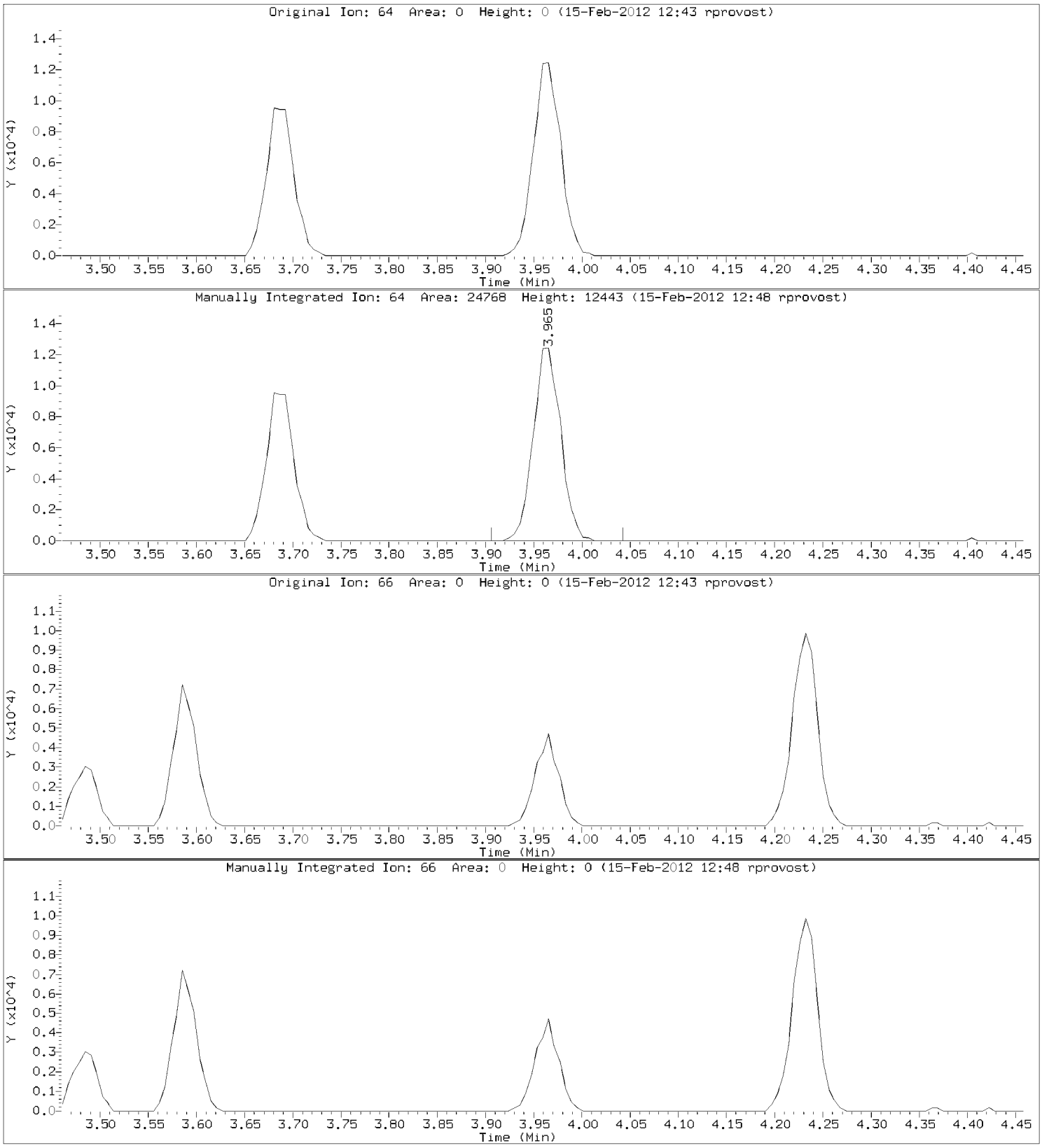
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04505.D
Date : 14-FEB-2012 15:33
Client ID:
Sample Info: ical 4 8137-59-15

Instrument: 10airB.i
Operator: RTP
Column phase: J&W DB-5
Column diameter: 0.32

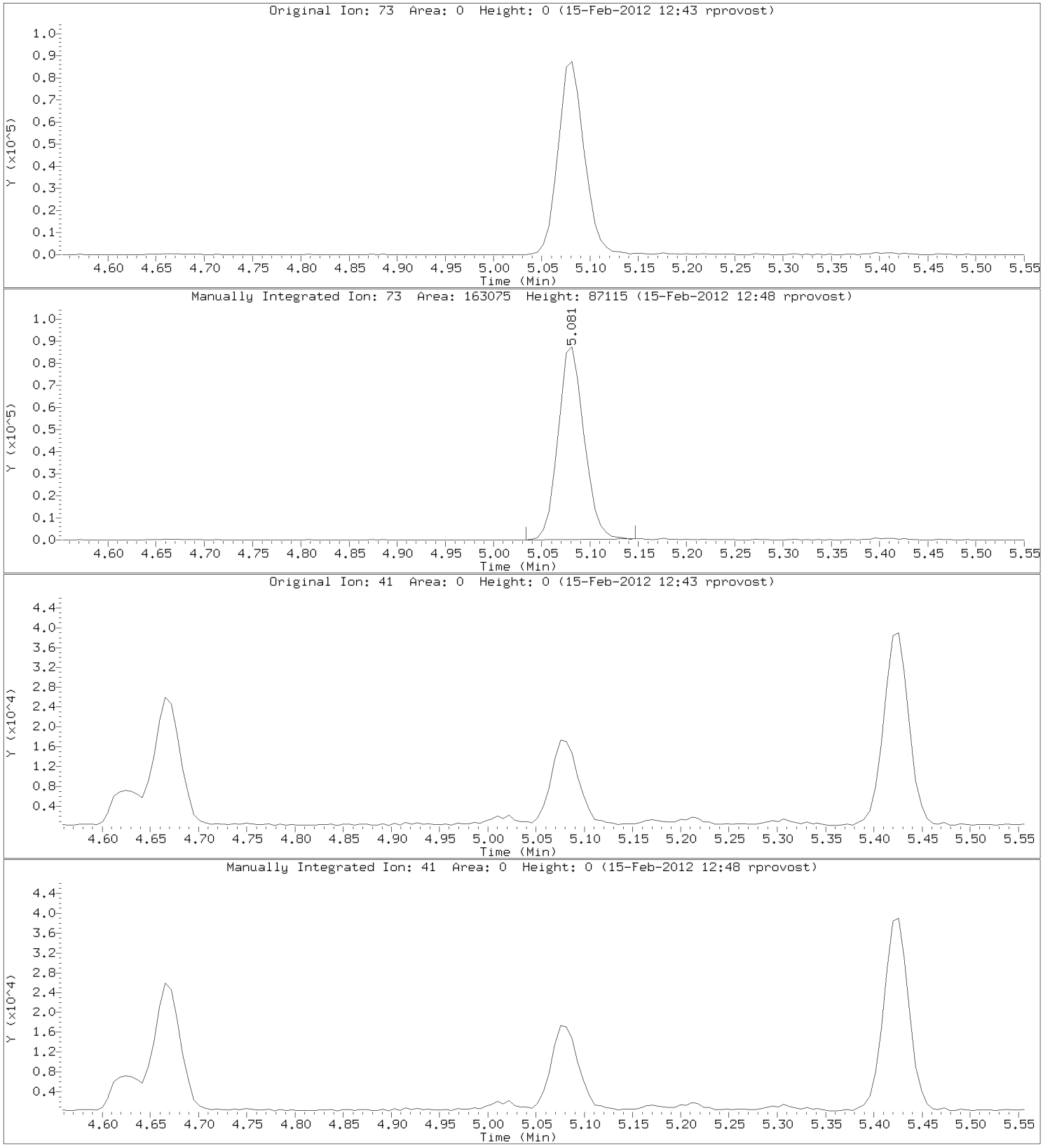
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04505.D
Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15

Compound: Chloroethane
CAS Number: 75-00-3



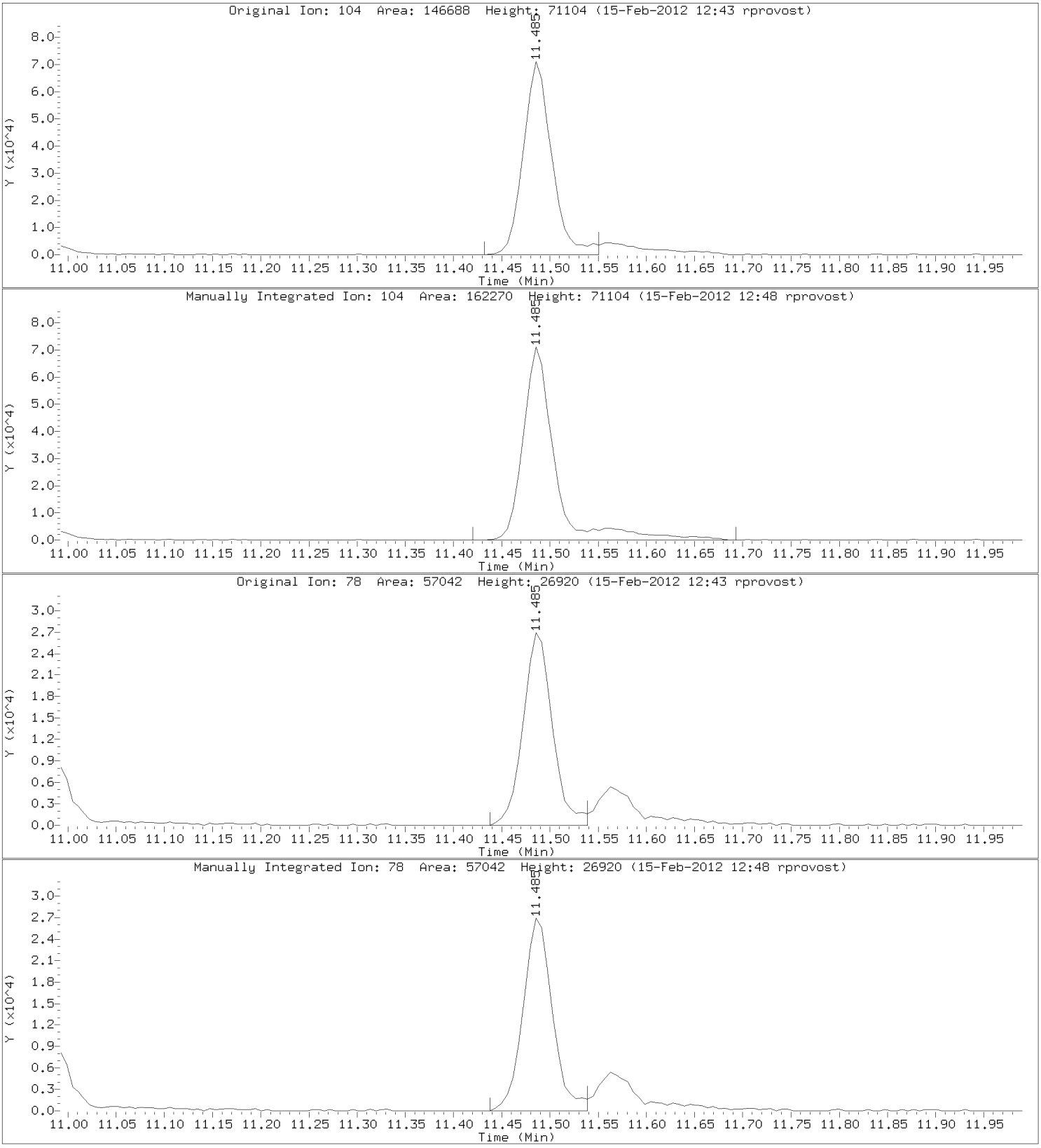
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04505.D
Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4

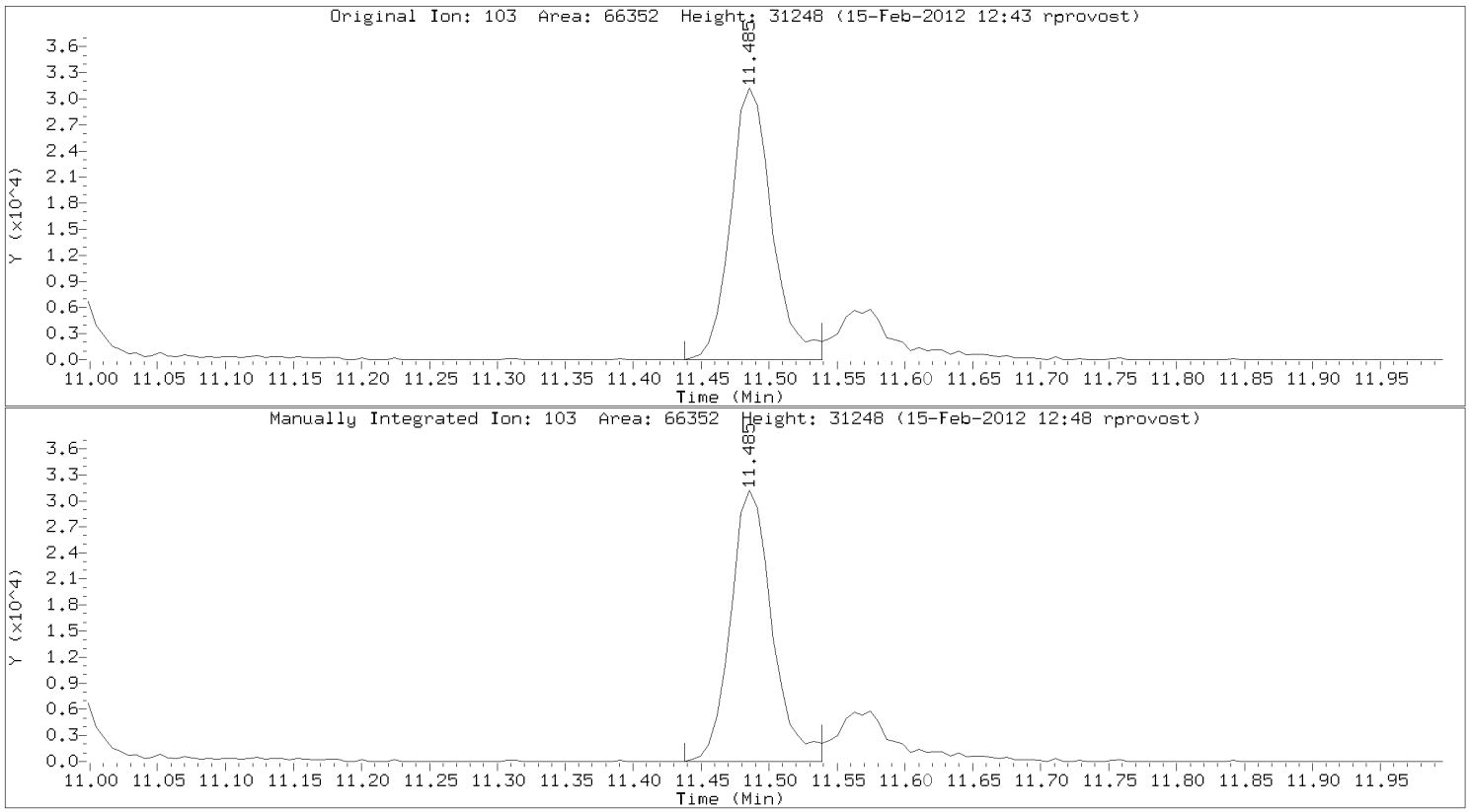


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04505.D
Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15

Compound: Styrene
CAS Number: 100-42-5

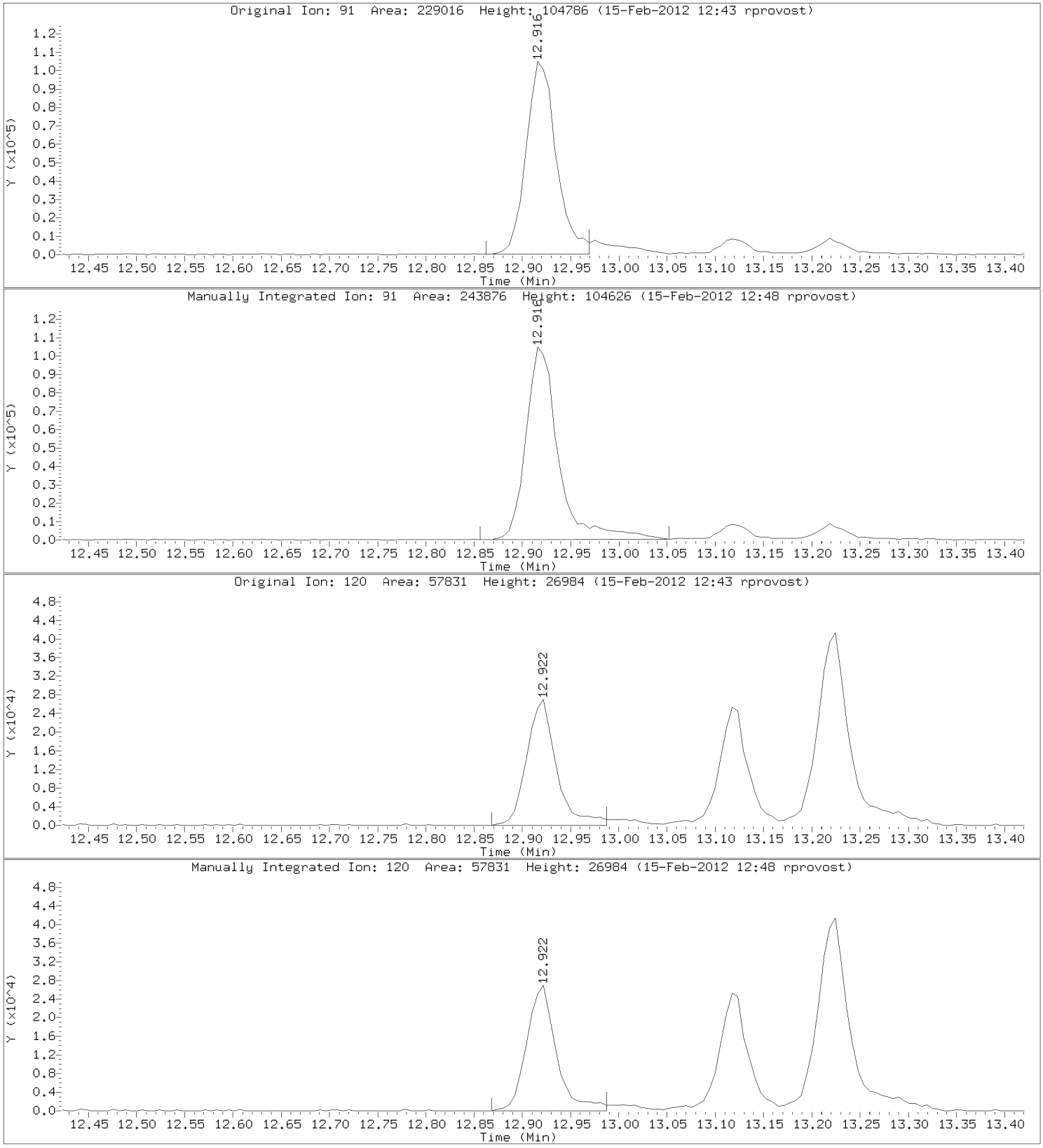


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04505.D
Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15



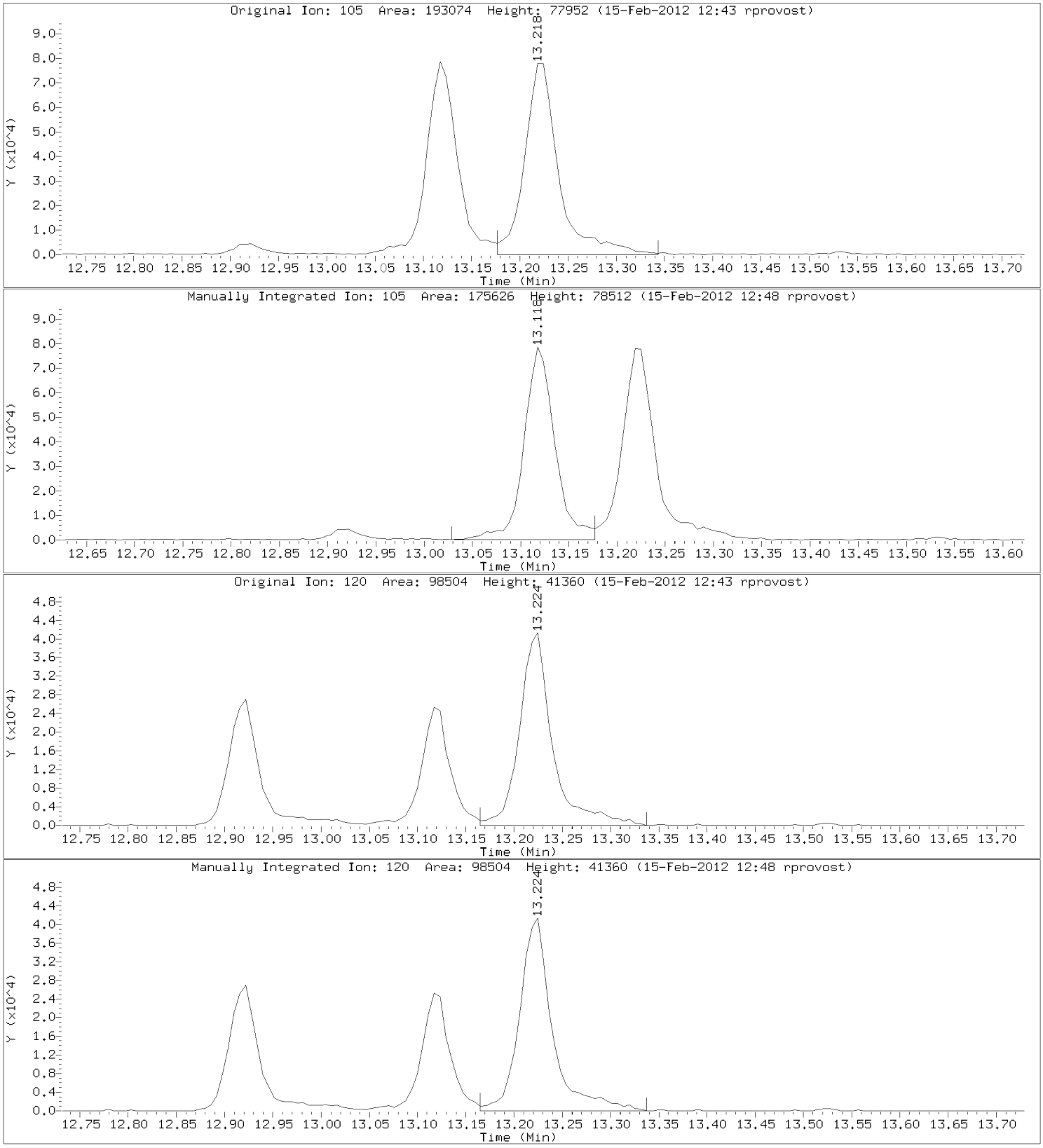
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Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15

Compound: N-Propylbenzene
CAS Number: 103-65-1

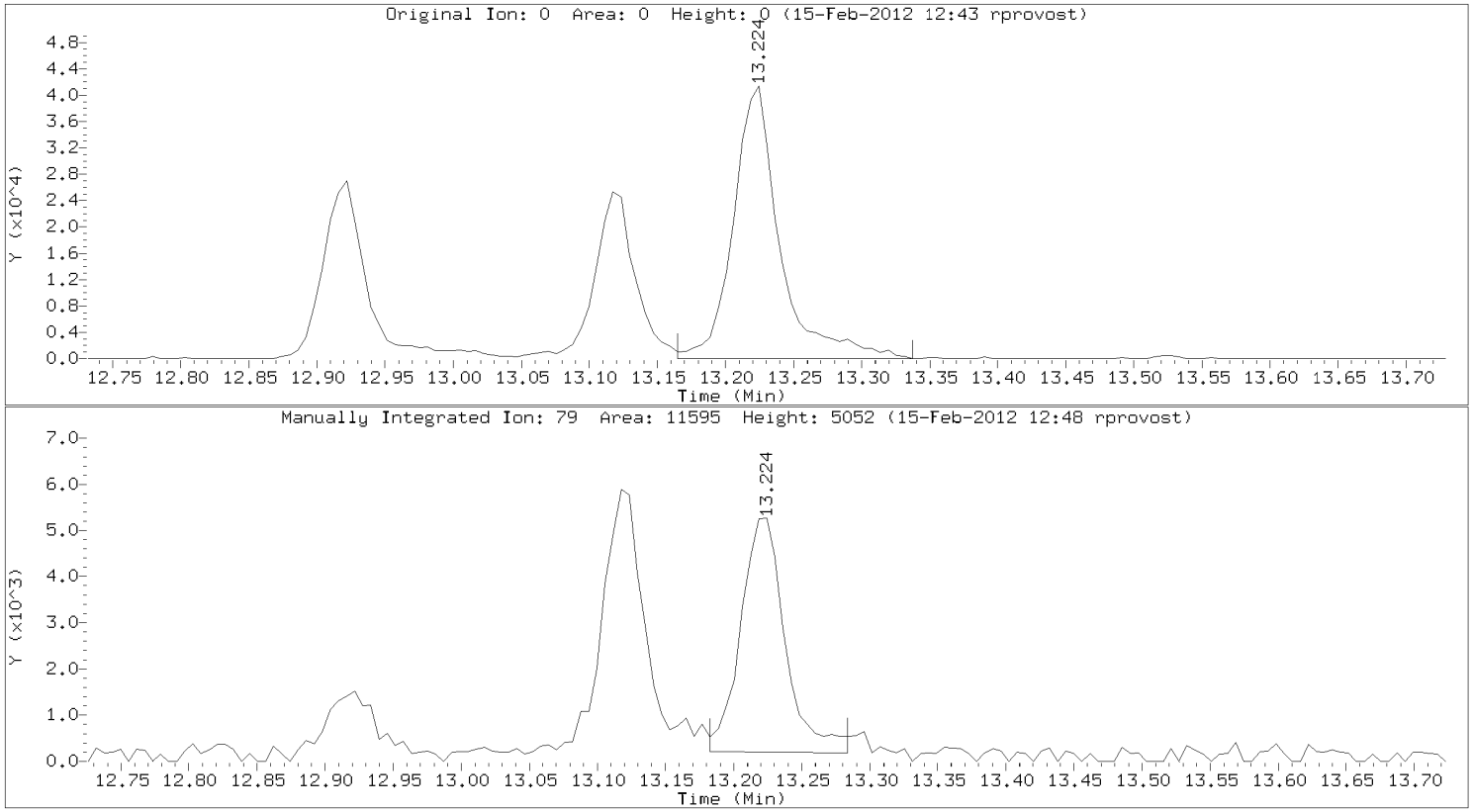


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04505.D
Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04505.D
Injection Date: 14-FEB-2012 15:33
Instrument: 10airB.i
Lab Sample ID: ical 4 8137-59-15



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04506.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04506.D
Lab Smp Id: ical 5 8137-59-18
Inj Date : 14-FEB-2012 16:04
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 5 8137-59-18
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 15:33 Cal File: 04505.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	612852	10.0000	9.63
	8 Chloroethane	64	3.965	3.965	(0.587)	240402	10.0000	9.13(QM)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	904398	10.0000	8.95
	15 Methylene chloride	49	4.653	4.653	(0.689)	458454	10.0000	4.43
	16 Carbon Disulfide	76	4.808	4.808	(0.712)	1044369	10.0000	7.99
	17 trans-1,2-dichloroethene	96	5.009	5.009	(0.742)	810557	10.0000	9.40
	18 Methyl Tert Butyl Ether	73	5.057	5.057	(0.749)	1815023	10.0000	10.5(M)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	1150449	10.0000	9.71
$	21 Hexane-d14(S)	66	5.300	5.300	(0.785)	631048	10.0000	8.80
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	739200	10.0000	10.1
	27 Chloroform	83	5.740	5.740	(0.850)	1386072	10.0000	9.91
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.925)	1485673	10.0000	9.65
	30 1,2-Dichloroethane	62	6.262	6.262	(0.927)	900863	10.0000	10.1
	31 Benzene	78	6.547	6.547	(0.969)	1959722	10.0000	9.65
	32 Carbon tetrachloride	117	6.570	6.570	(0.973)	1604510	10.0000	10.8
*	34 1,4-Difluorobenzene	114	6.754	6.754	(1.000)	1711153	10.0000	
	38 Trichloroethene	130	7.223	7.223	(1.069)	958712	10.0000	10.0
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1359033	10.0000	9.95
	44 Toluene	91	8.672	8.672	(1.284)	2362789	10.0000	3.58
	45 1,1,2-Trichloroethane	97	8.672	8.672	(1.284)	693430	10.0000	9.42
	48 1,2-Dibromoethane	107	9.586	9.586	(0.916)	1156726	10.0000	11.2
	49 Tetrachloroethene	166	9.675	9.675	(0.925)	1442686	10.0000	11.0
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	907290	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04506.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
51	Chlorobenzene	112	10.511	10.511	(1.005)	1791030	10.0000	11.0
52	Ethyl Benzene	91	10.814	10.814	(1.033)	2518839	10.0000	11.1
53	m&p-Xylene	91	10.986	10.986	(1.050)	4405681	20.0000	22.8
56	Styrene	104	11.491	11.491	(1.098)	1916139	10.0000	11.8
57	o-Xylene	91	11.568	11.568	(1.105)	1934647	10.0000	11.6
58	1,1,2,2-Tetrachloroethane	83	11.883	11.883	(1.136)	1378481	10.0000	11.0
59	Isopropylbenzene	105	12.251	12.251	(1.171)	2722164	10.0000	10.9
60	N-Propylbenzene	91	12.921	12.921	(1.235)	2892559	10.0000	11.5(A)
61	4-Ethyltoluene	105	13.123	13.123	(1.254)	2040529	10.0000	10.7(M)
62	1,3,5-Trimethylbenzene	105	13.224	13.224	(1.264)	2296612	10.0000	11.3
63	1,2,4-Trimethylbenzene	105	13.829	13.829	(1.322)	1911067	10.0000	10.8
64	1,3-Dichlorobenzene	146	14.191	14.191	(1.356)	1561427	10.0000	10.3
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.269	14.269	(1.364)	544821	10.0000	9.41
68	1,4-Dichlorobenzene	146	14.316	14.316	(1.368)	1552464	10.0000	10.3
69	1,2-Dichlorobenzene	146	14.838	14.838	(1.418)	1326567	10.0000	10.1
71	1,2,4-Trichlorobenzene	180	17.391	17.391	(1.662)	522761	10.0000	9.62
72	Naphthalene	128	17.575	17.575	(1.679)	893832	10.0000	8.44

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04506.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04506.D
Lab Smp Id: ical 5 8137-59-18
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

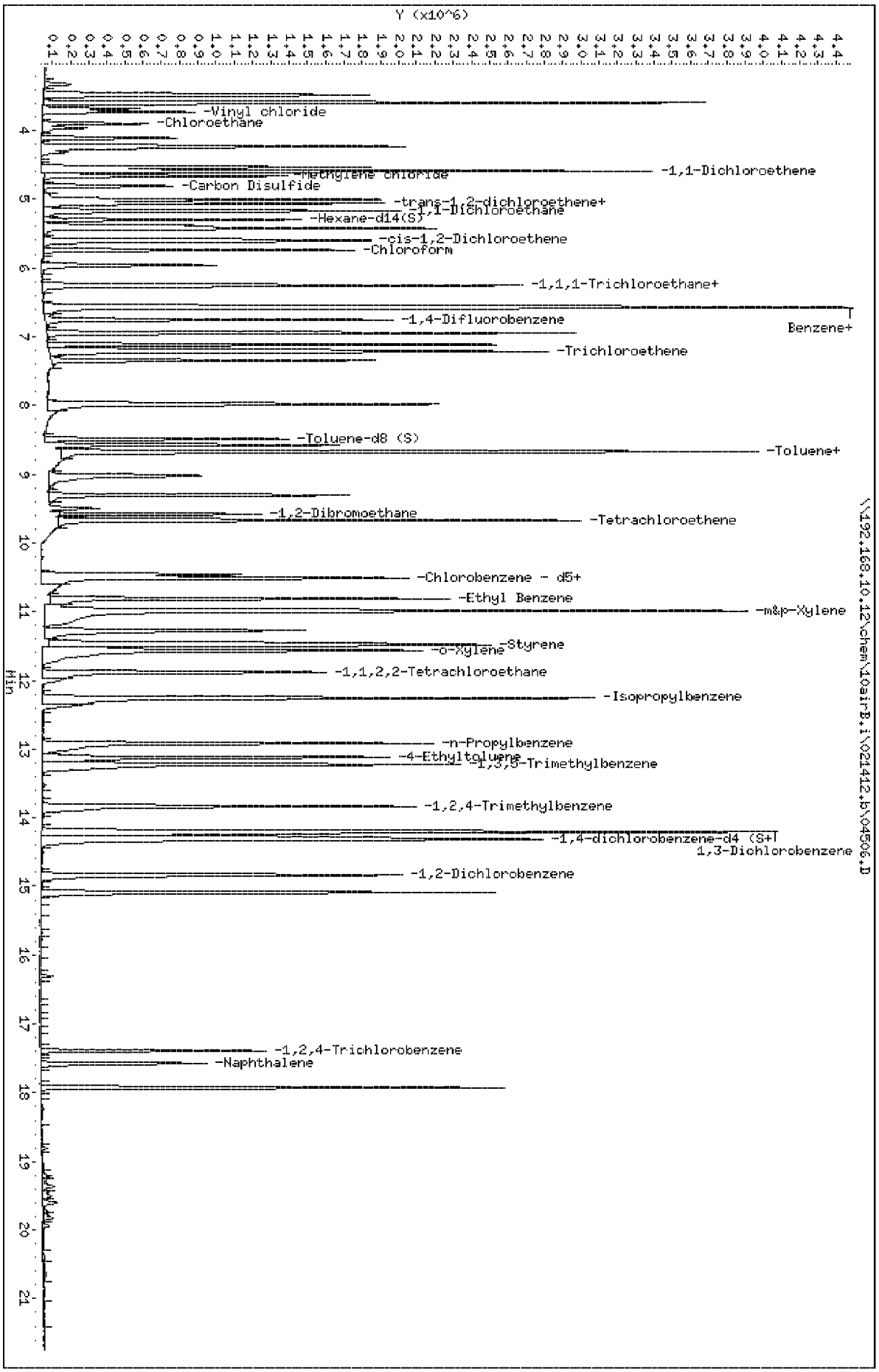
Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1711153	0.00
50 Chlorobenzene - d	907290	544374	1270206	907290	0.00

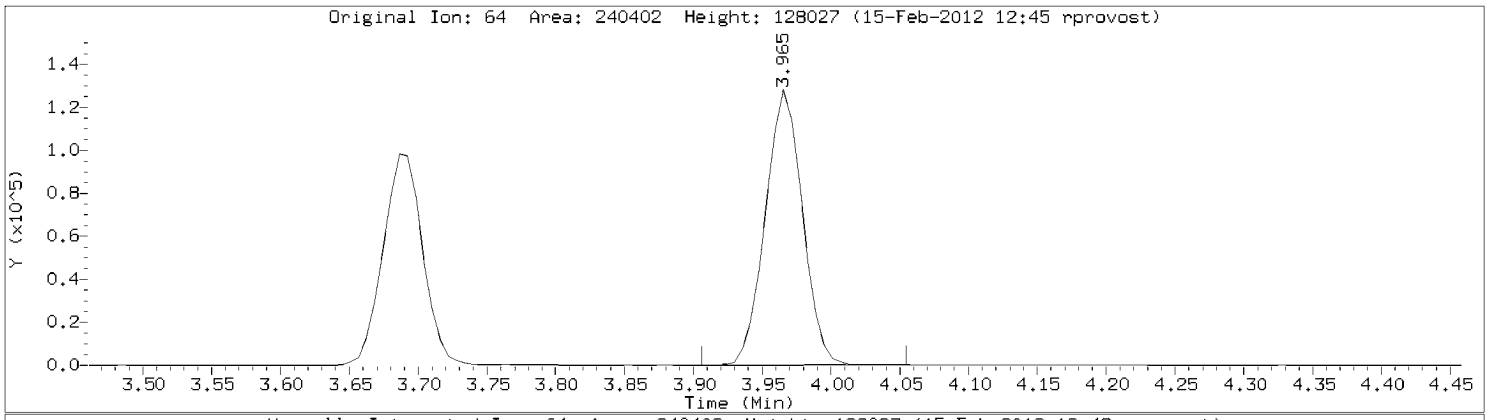
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	0.00

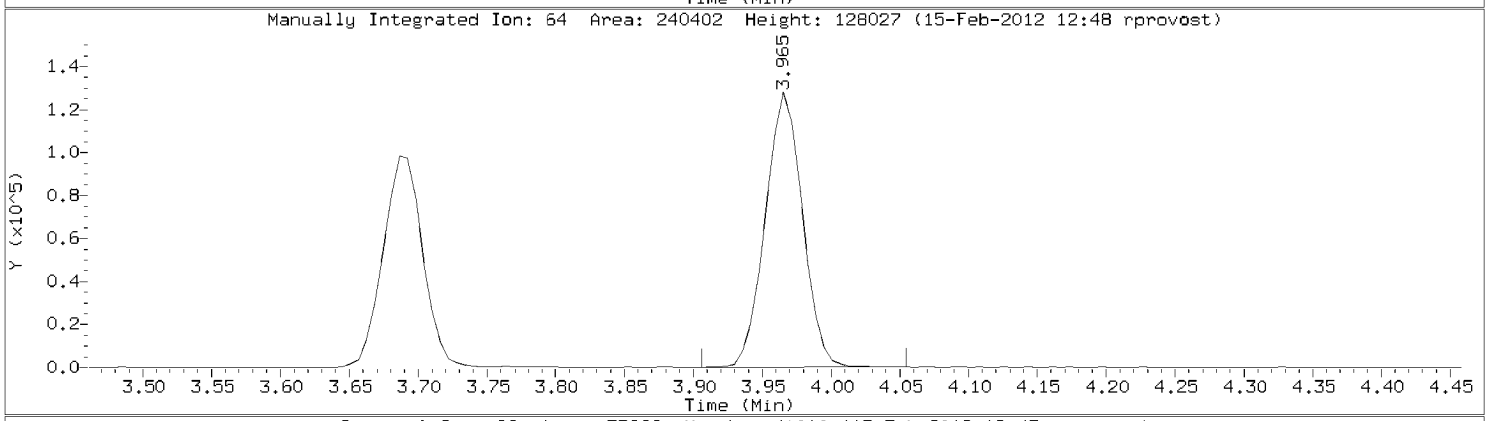
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

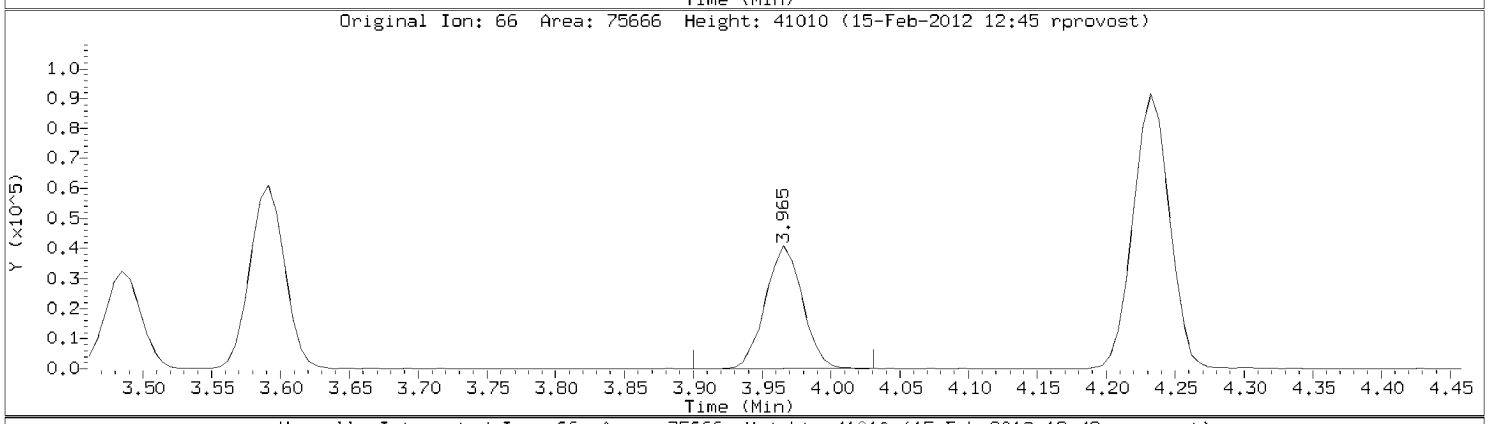

Y (x10^6)
Min
-Vinyl chloride
-Chloroethane
-Methylene chloride
-1,1-Dichloroethene
-Carbon Disulfide
-trans-1,2-dichloroethene+
-1,1-Dichloroethane
-Hexane-d14(S)
-cis-1,2-Dichloroethene
-Chloroform
-1,1,1-Trichloroethane+
-1,4-Difluorobenzene
Benzene+
-Trichloroethene
-Toluene-d8 (S)
-Toluene+
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
-m&p-Xylene
-o-Xylene
-Styrene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-n-Propylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,4-dichlorobenzene-d4 (S+T
1,3-Dichlorobenzene
-1,2-Dichlorobenzene
-1,2,4-Trichlorobenzene
-Naphthalene
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Data File: \\192.168.10.12\chem\10airB.i\021412.b\04506.D
Date : 14-FEB-2012 16:04
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Sample Info: ical 5 8137-59-18
Column phase: J&W DB-5
Instrument: 10airB.i
Operator: RTP
Column diameter: 0.32

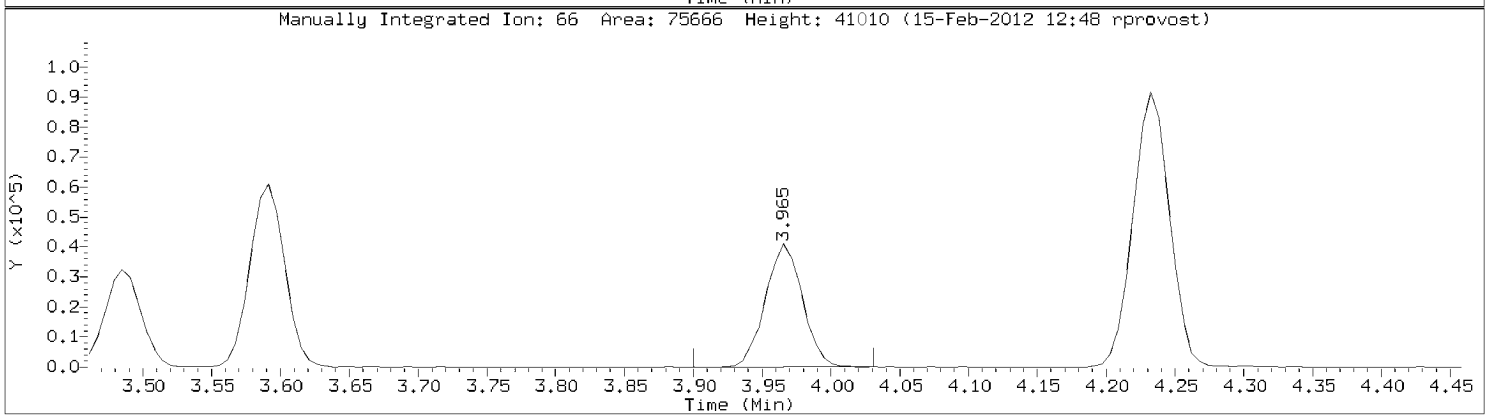
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Injection Date: 14-FEB-2012 16:04
Instrument: 10airB.i
Lab Sample ID: ical 5 8137-59-18

Compound: Chloroethane
CAS Number: 75-00-3



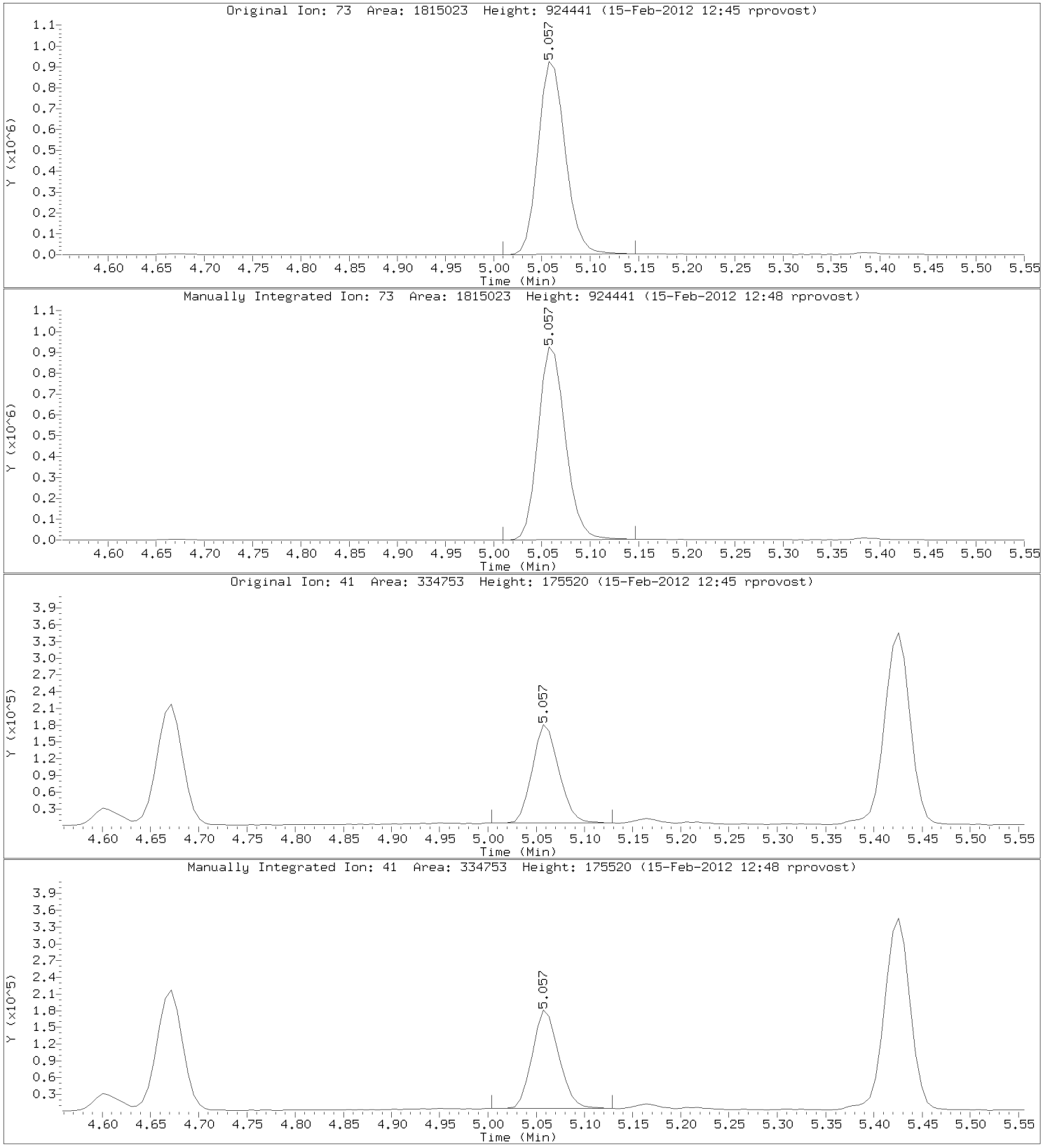






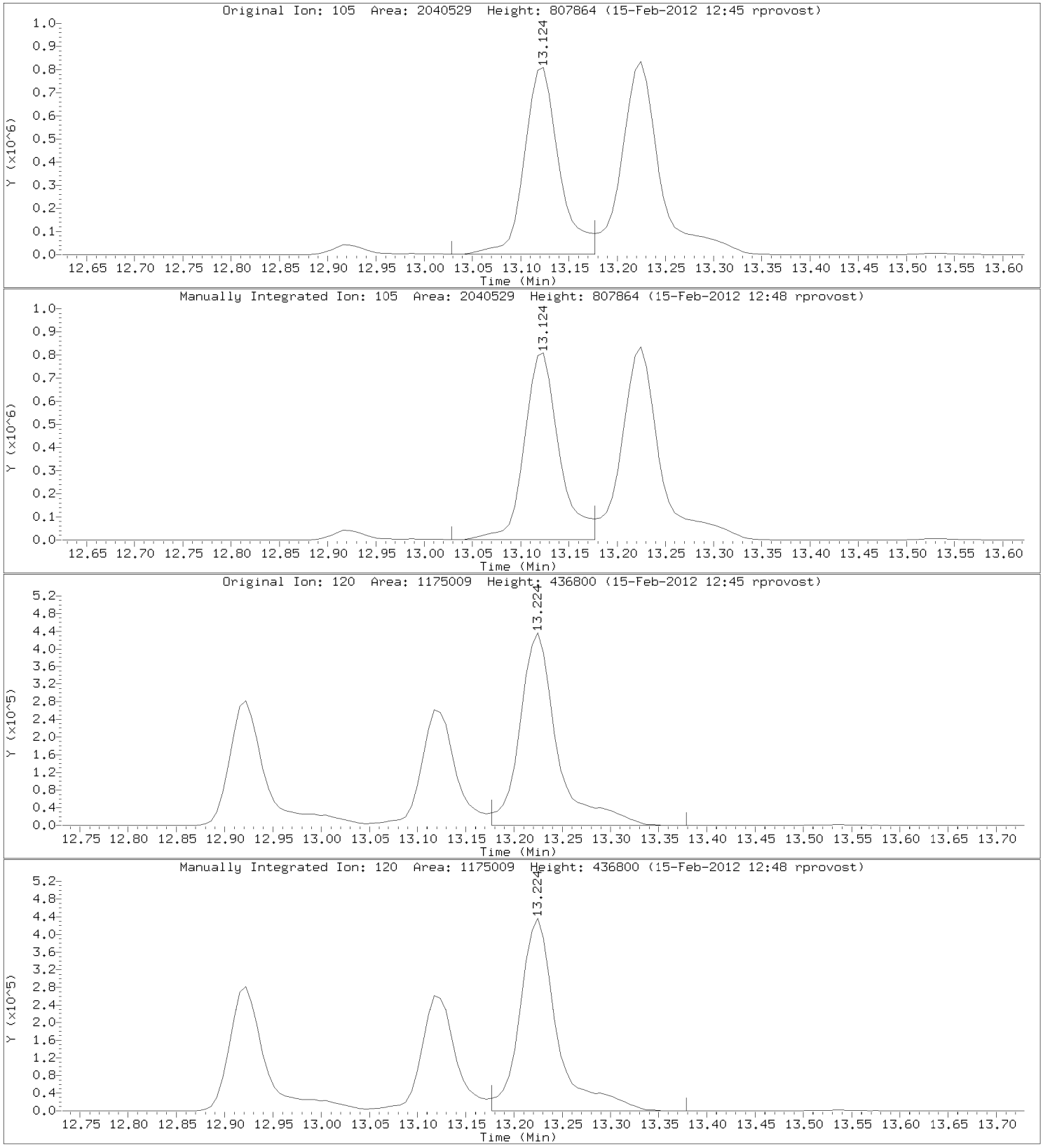
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Injection Date: 14-FEB-2012 16:04
Instrument: 10airB.i
Lab Sample ID: ical 5 8137-59-18

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4

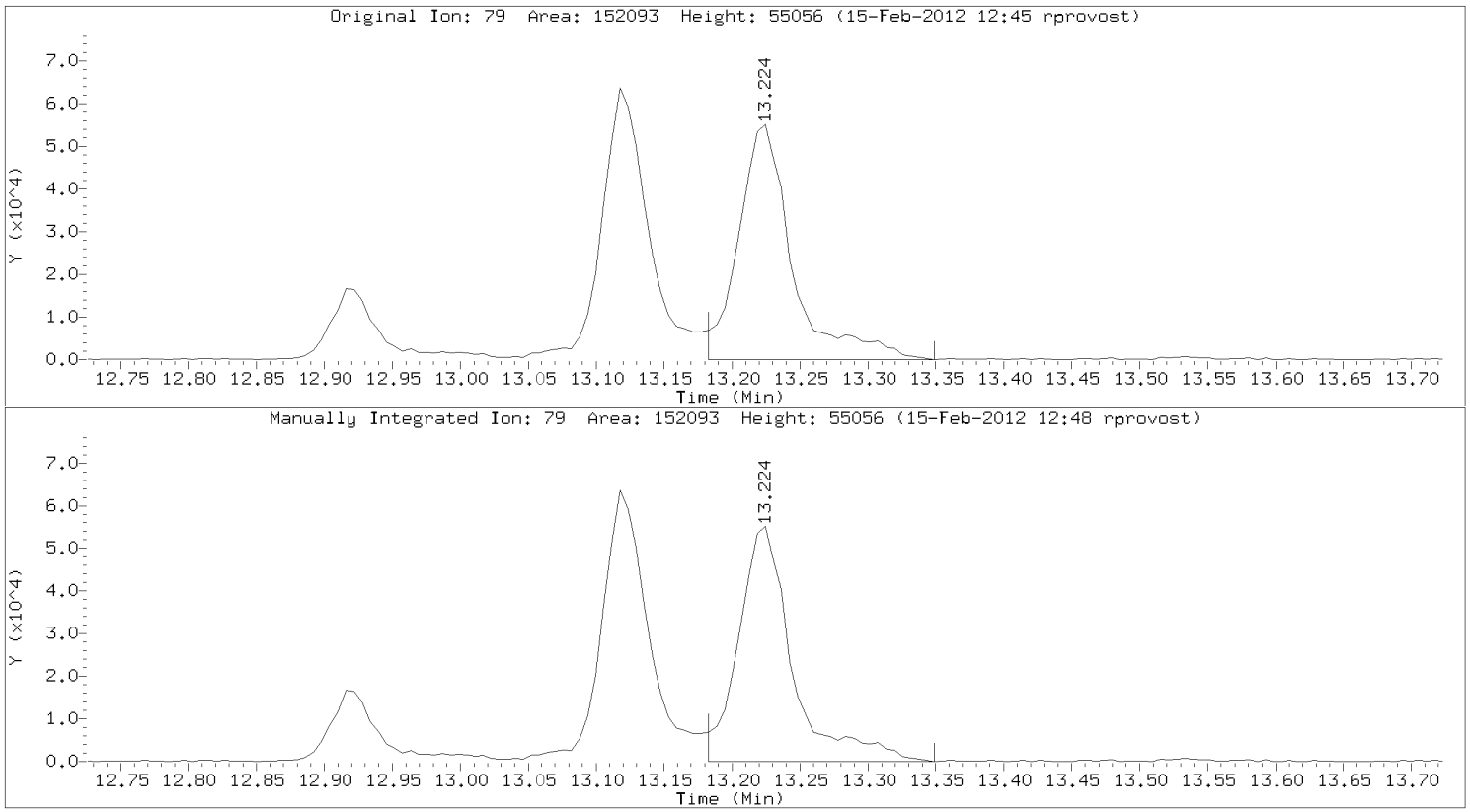


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04506.D
Injection Date: 14-FEB-2012 16:04
Instrument: 10airB.i
Lab Sample ID: ical 5 8137-59-18

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04506.D
Injection Date: 14-FEB-2012 16:04
Instrument: 10airB.i
Lab Sample ID: ical 5 8137-59-18



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04507.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04507.D
Lab Smp Id: ical 6 8137-59-18
Inj Date : 14-FEB-2012 16:35
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 6 8137-59-18
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 16:04 Cal File: 04506.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	1140560	20.0000	17.3
	8 Chloroethane	64	3.959	3.959	(0.586)	500669	20.0000	18.4(QM)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	1774079	20.0000	17.0
	15 Methylene chloride	49	4.653	4.653	(0.689)	886634	20.0000	8.29
	16 Carbon Disulfide	76	4.808	4.808	(0.712)	2032582	20.0000	15.0
	17 trans-1,2-dichloroethene	96	5.004	5.004	(0.741)	1525296	20.0000	17.1
	18 Methyl Tert Butyl Ether	73	5.051	5.051	(0.748)	3346681	20.0000	18.8(M)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	2157756	20.0000	17.6
$	21 Hexane-d14(S)	66	5.294	5.294	(0.784)	674420	10.0000	9.10
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	1436301	20.0000	18.9
	27 Chloroform	83	5.740	5.740	(0.850)	2692616	20.0000	18.6
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.925)	2886070	20.0000	18.1
	30 1,2-Dichloroethane	62	6.262	6.262	(0.927)	1779549	20.0000	19.2
	31 Benzene	78	6.547	6.547	(0.969)	3664430	20.0000	17.5
	32 Carbon tetrachloride	117	6.571	6.571	(0.973)	3034095	20.0000	19.7
*	34 1,4-Difluorobenzene	114	6.754	6.754	(1.000)	1768288	10.0000	
	38 Trichloroethene	130	7.223	7.223	(1.069)	1899553	20.0000	19.2
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1387692	10.0000	9.83
	44 Toluene	91	8.672	8.672	(1.284)	4674527	20.0000	6.85
	45 1,1,2-Trichloroethane	97	8.678	8.678	(1.285)	1536992	20.0000	20.2
	48 1,2-Dibromoethane	107	9.586	9.586	(0.916)	2288740	20.0000	22.5
	49 Tetrachloroethene	166	9.675	9.675	(0.925)	2839065	20.0000	21.9
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	896423	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04507.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
51	Chlorobenzene	112	10.517	10.517	(1.005)	3520263	20.0000	21.8
52	Ethyl Benzene	91	10.814	10.814	(1.033)	4895571	20.0000	21.9
53	m&p-Xylene	91	10.986	10.986	(1.050)	8401378	40.0000	44.0(A)
56	Styrene	104	11.491	11.491	(1.098)	3796262	20.0000	23.6
57	o-Xylene	91	11.568	11.568	(1.105)	3866285	20.0000	23.4
58	1,1,2,2-Tetrachloroethane	83	11.889	11.889	(1.136)	2784892	20.0000	22.6
59	Isopropylbenzene	105	12.251	12.251	(1.171)	5341400	20.0000	21.6
60	N-Propylbenzene	91	12.921	12.921	(1.235)	5700140	20.0000	22.9(A)
61	4-Ethyltoluene	105	13.123	13.123	(1.254)	4203517	20.0000	22.3(M)
62	1,3,5-Trimethylbenzene	105	13.224	13.224	(1.264)	4625211	20.0000	23.0
63	1,2,4-Trimethylbenzene	105	13.829	13.829	(1.322)	3976768	20.0000	22.8
64	1,3-Dichlorobenzene	146	14.191	14.191	(1.356)	3187189	20.0000	21.2
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.269	14.269	(1.364)	593385	10.0000	10.4
68	1,4-Dichlorobenzene	146	14.316	14.316	(1.368)	3203270	20.0000	21.6
69	1,2-Dichlorobenzene	146	14.838	14.838	(1.418)	2844212	20.0000	22.0
71	1,2,4-Trichlorobenzene	180	17.391	17.391	(1.662)	906077	20.0000	16.9
72	Naphthalene	128	17.575	17.575	(1.679)	1545447	20.0000	14.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04507.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04507.D
Lab Smp Id: ical 6 8137-59-18
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

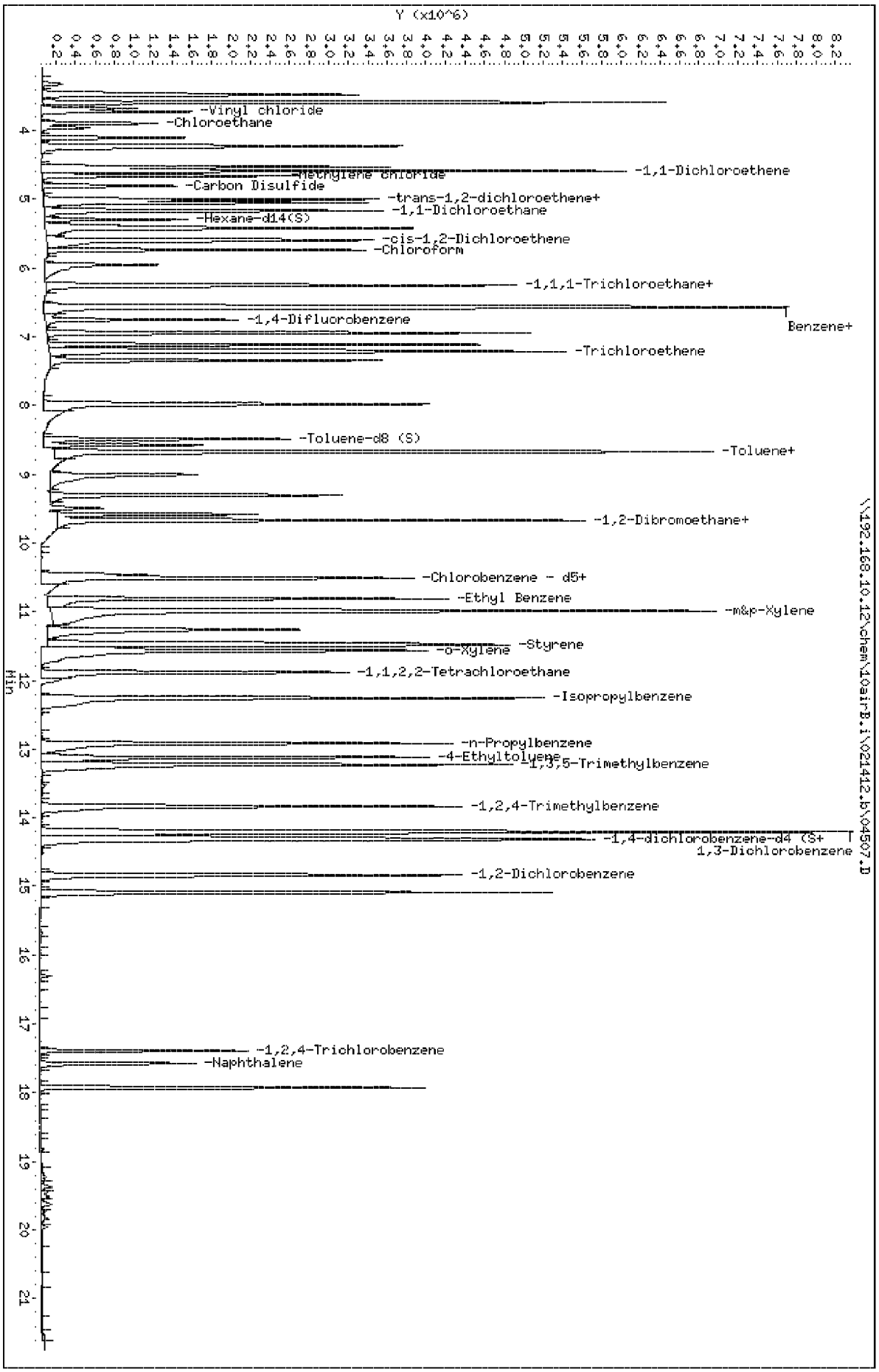
Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1768288	3.34
50 Chlorobenzene - d	907290	544374	1270206	896423	-1.20

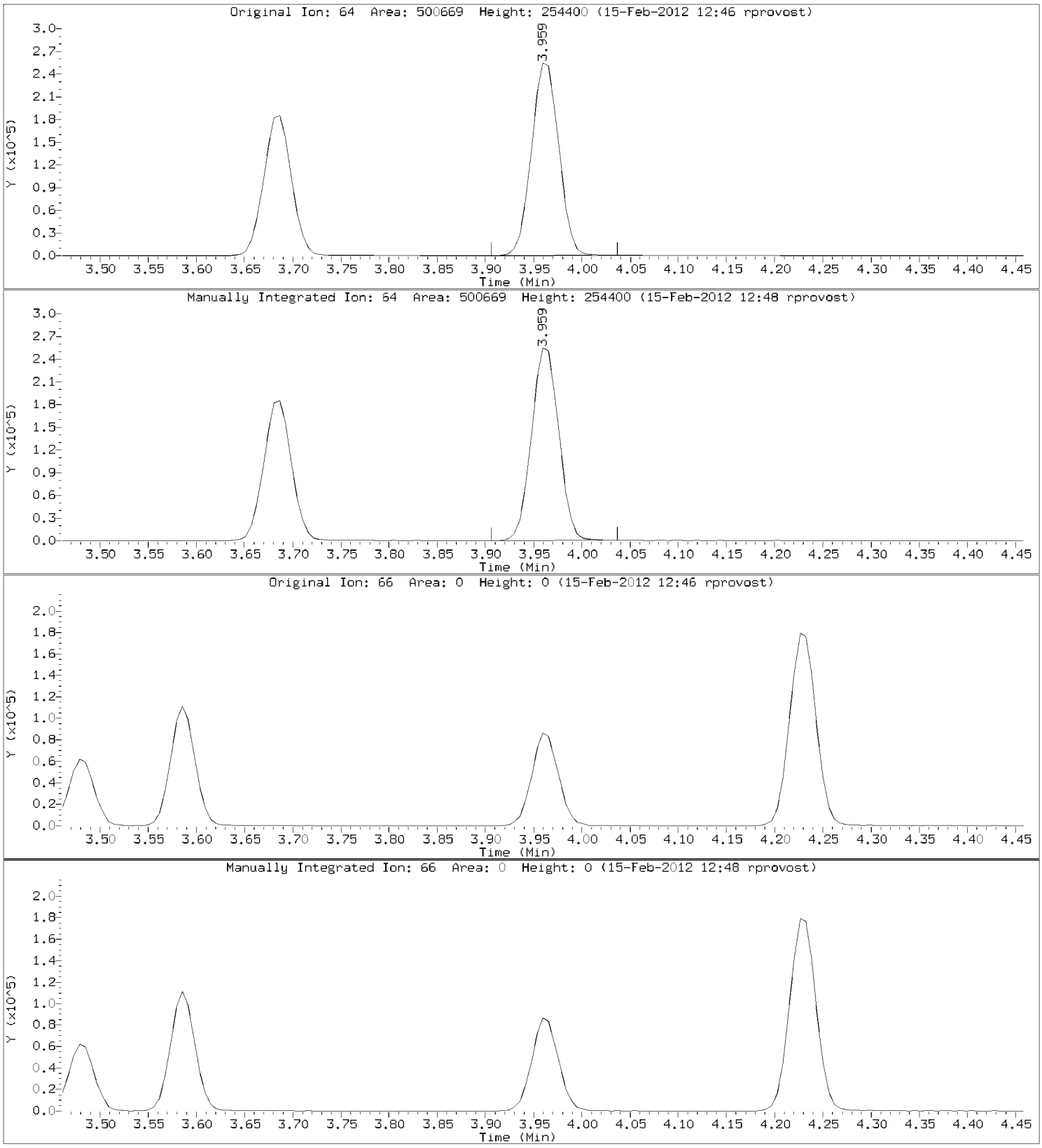
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Y (x10^6)
Data File: \\192.168.10.12\chem\10airB.i\021412.b\04507.D
Date : 14-FEB-2012 16:35
Client ID:
Sample Info: ical 6 8137-59-18
Column phase: J&W DB-5
Instrument: 10airB.i
Operator: RTP
Column diameter: 0.32
\\192.168.10.12\chem\10airB.i\021412.b\04507.D
Min
-Vinyl chloride
-Chloroethane
-Methylene Chloride
-1,1-Dichloroethene
-Carbon Disulfide
-trans-1,2-dichloroethene+
-1,1-Dichloroethane
-Hexane-d14(S)
-cis-1,2-Dichloroethene
-Chloroform
-1,1,1-Trichloroethane+
-1,4-Difluorobenzene
Benzene+
-Trichloroethene
-Toluene-d8 (S)
-Toluene+
-1,2-Dibromoethane+
-Chlorobenzene - d5+
-Ethyl Benzene
-m&p-Xylene
-o-Xylene
-Styrene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-n-Propylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,4-dichlorobenzene-d4 (S+
1,3-Dichlorobenzene
-1,2-Dichlorobenzene
-1,2,4-Trichlorobenzene
-Naphthalene

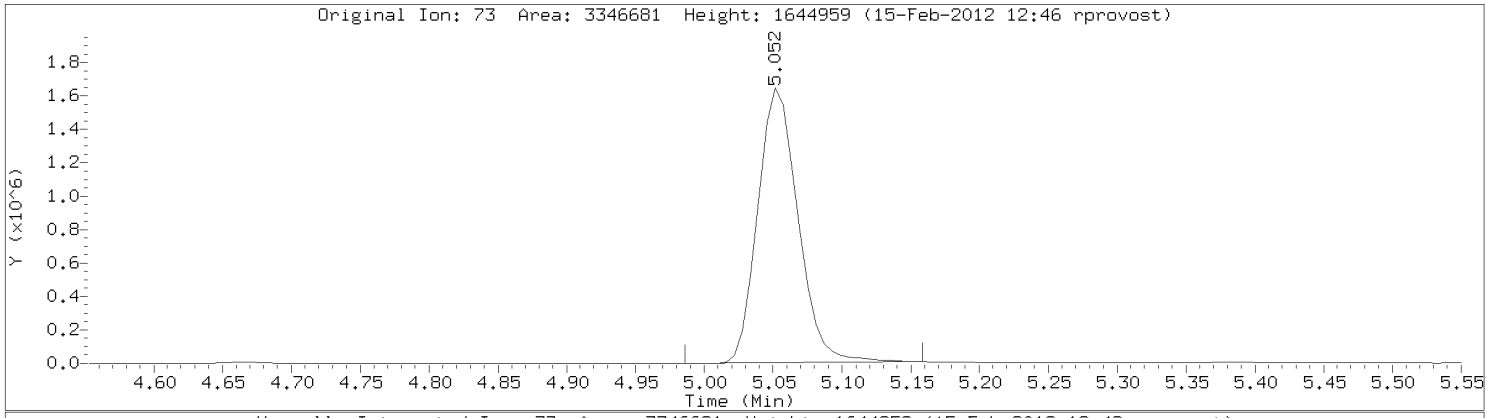
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Injection Date: 14-FEB-2012 16:35
Instrument: 10airB.i
Lab Sample ID: ical 6 8137-59-18

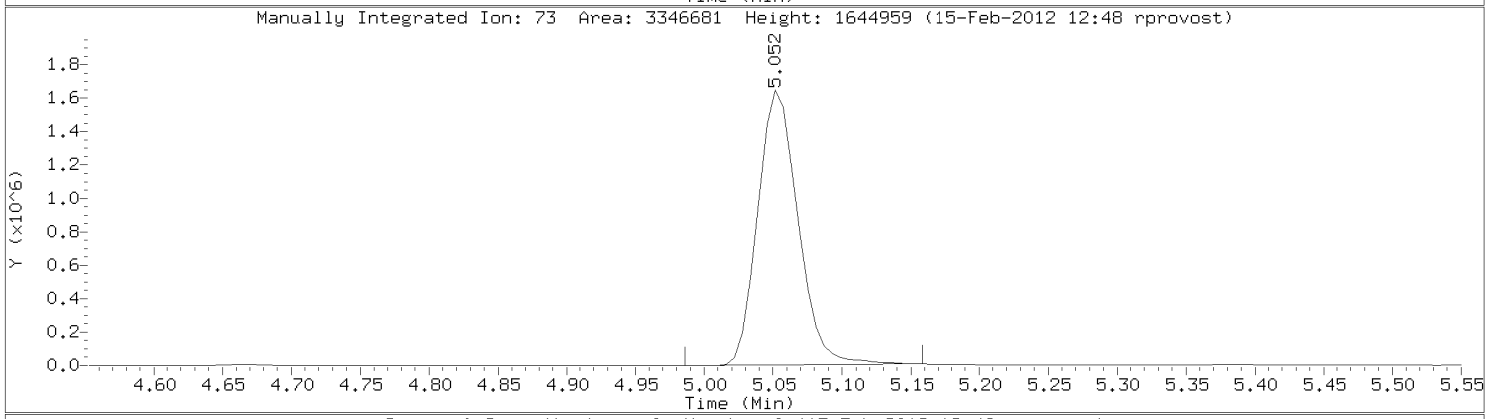
Compound: Chloroethane
CAS Number: 75-00-3

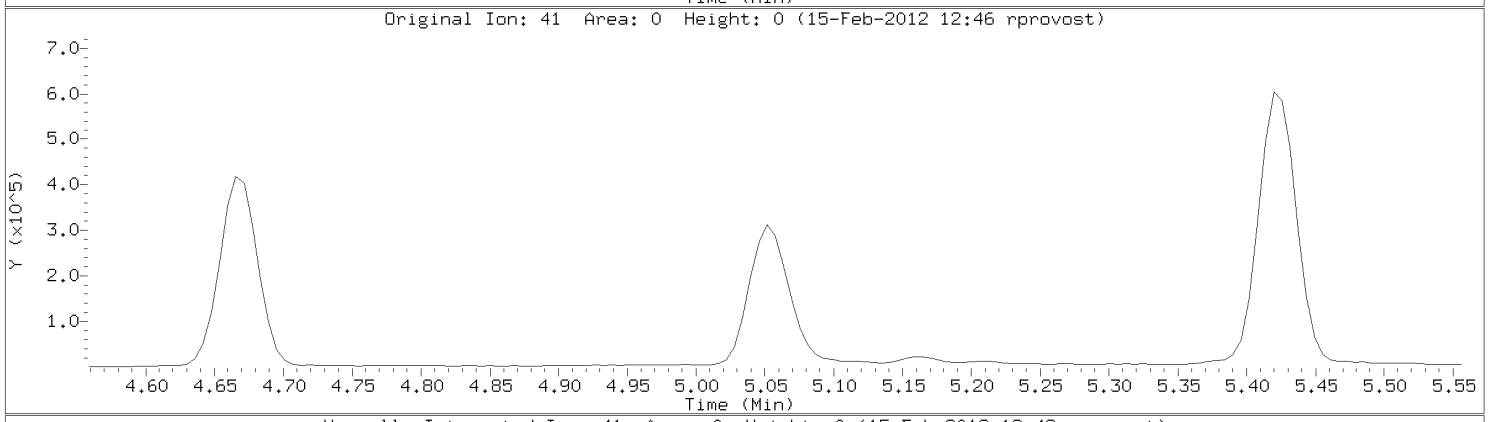


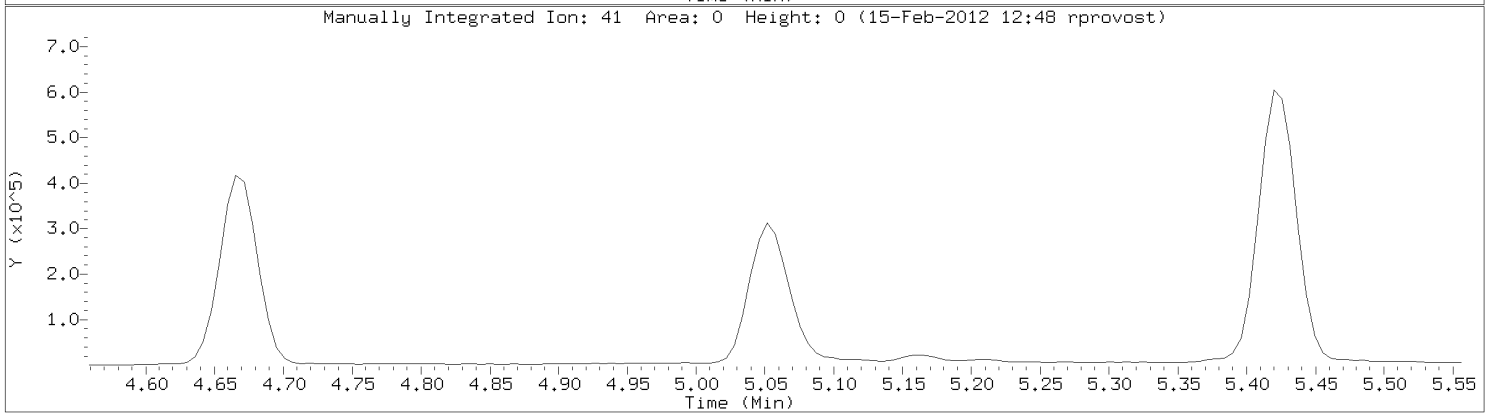
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04507.D
Injection Date: 14-FEB-2012 16:35
Instrument: 10airB.i
Lab Sample ID: ical 6 8137-59-18

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



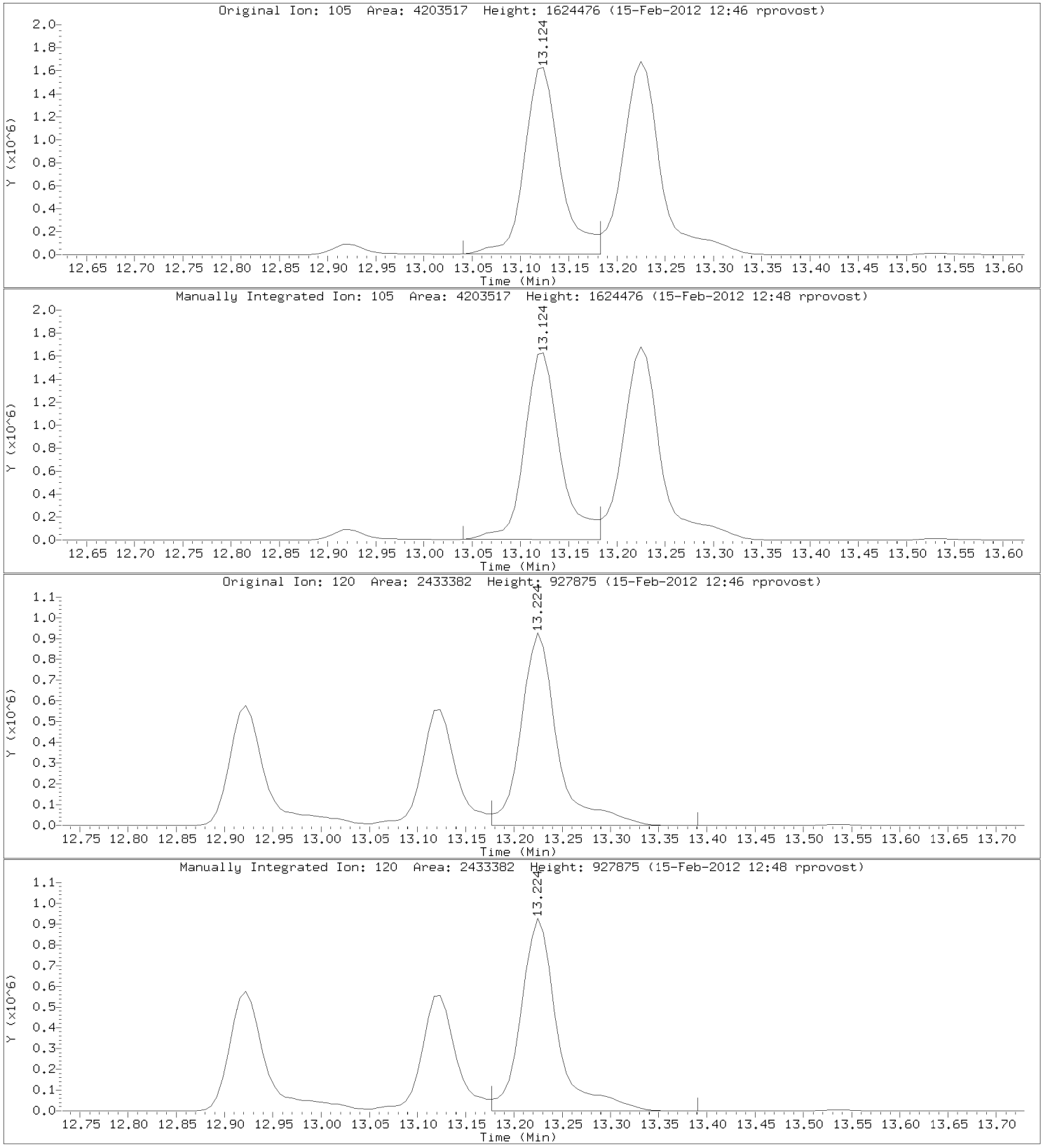




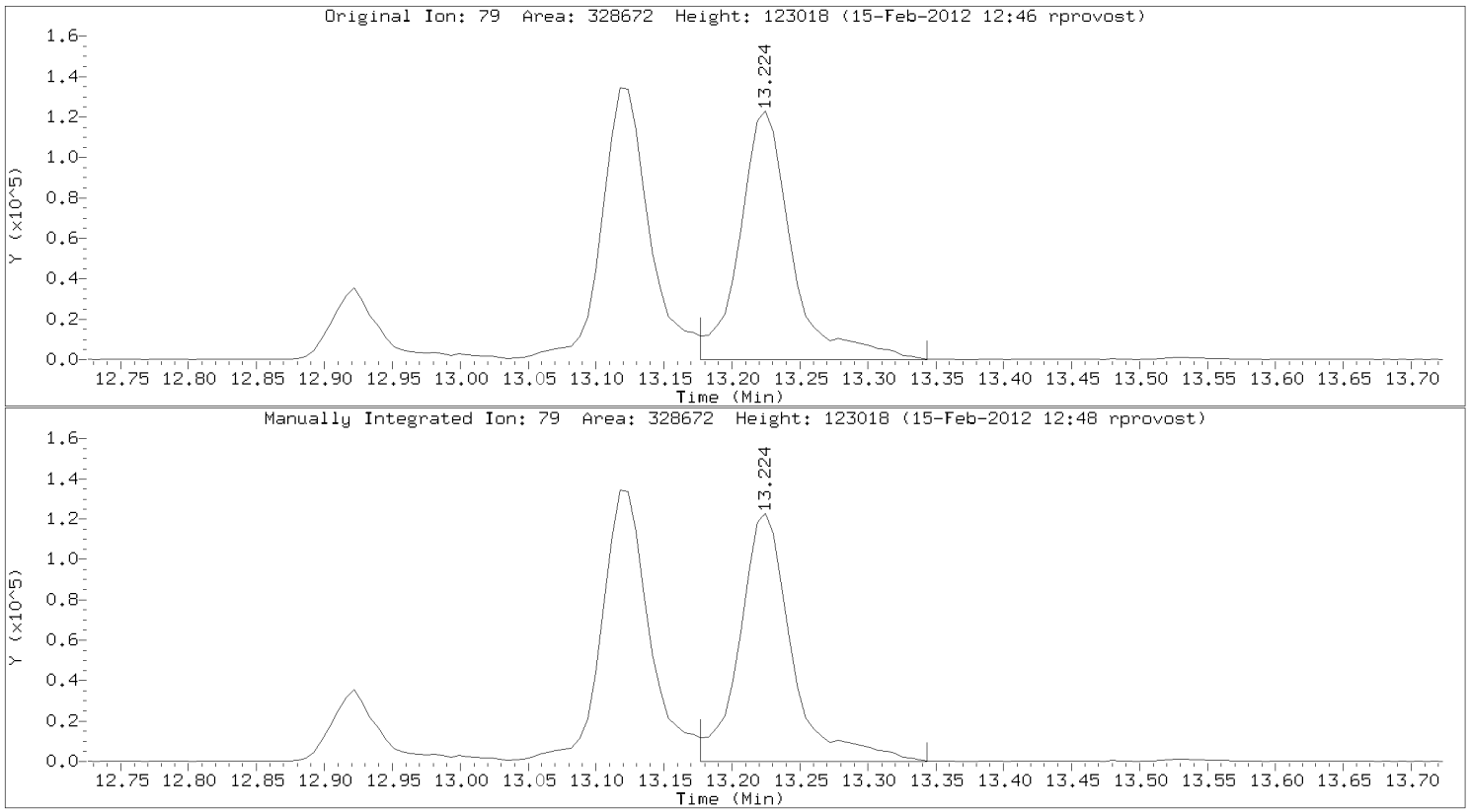


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04507.D
Injection Date: 14-FEB-2012 16:35
Instrument: 10airB.i
Lab Sample ID: ical 6 8137-59-18

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04507.D
Injection Date: 14-FEB-2012 16:35
Instrument: 10airB.i
Lab Sample ID: ical 6 8137-59-18



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04508.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04508.D
Lab Smp Id: ical 7 8137-59-18
Inj Date : 14-FEB-2012 17:08
Operator : RTP Inst ID: 10airB.i
Smp Info : ical 7 8137-59-18
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:48 10airB.i Quant Type: ISTD
Cal Date : 14-FEB-2012 16:35 Cal File: 04507.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.545)	1657542	30.0000	23.2
	8 Chloroethane	64	3.959	3.959	(0.586)	689899	30.0000	23.3(M)
	13 1,1-Dichloroethene	61	4.534	4.534	(0.671)	2406726	30.0000	21.2
	15 Methylene chloride	49	4.653	4.653	(0.688)	1248680	30.0000	10.7
	16 Carbon Disulfide	76	4.807	4.807	(0.711)	2916994	30.0000	19.9
	17 trans-1,2-dichloroethene	96	5.003	5.003	(0.740)	2211574	30.0000	22.8
	18 Methyl Tert Butyl Ether	73	5.051	5.051	(0.747)	4771708	30.0000	24.7(M)
	20 1,1-Dichloroethane	63	5.175	5.175	(0.766)	3096959	30.0000	23.3
$	21 Hexane-d14(S)	66	5.300	5.300	(0.784)	736873	10.0000	9.15
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.827)	2160490	30.0000	26.2
	27 Chloroform	83	5.739	5.739	(0.849)	3899045	30.0000	24.8
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.924)	4169223	30.0000	24.1
	30 1,2-Dichloroethane	62	6.268	6.268	(0.927)	2650886	30.0000	26.4
	31 Benzene	78	6.552	6.552	(0.969)	5119740	30.0000	22.4
	32 Carbon tetrachloride	117	6.576	6.576	(0.973)	4267815	30.0000	25.5
*	34 1,4-Difluorobenzene	114	6.760	6.760	(1.000)	1922673	10.0000	
	38 Trichloroethene	130	7.223	7.223	(1.068)	2815281	30.0000	26.2
$	43 Toluene-d8 (S)	98	8.576	8.576	(1.269)	1505251	10.0000	9.81
	44 Toluene	91	8.671	8.671	(1.283)	6873633	30.0000	9.27
	45 1,1,2-Trichloroethane	97	8.677	8.677	(1.284)	2332300	30.0000	28.2
	48 1,2-Dibromoethane	107	9.591	9.591	(0.917)	3498434	30.0000	33.4(A)
	49 Tetrachloroethene	166	9.680	9.680	(0.925)	4260298	30.0000	31.8(A)
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	925257	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04508.D
Report Date: 15-Feb-2012 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
51	Chlorobenzene	112	10.517	10.517	(1.005)	5282814	30.0000	31.7(A)
52	Ethyl Benzene	91	10.814	10.814	(1.033)	7211077	30.0000	31.3(A)
53	m&p-Xylene	91	10.992	10.992	(1.050)	12117823	60.0000	61.5(A)
56	Styrene	104	11.491	11.491	(1.098)	5643661	30.0000	34.1(A)
57	o-Xylene	91	11.574	11.574	(1.106)	5811600	30.0000	34.0(A)
58	1,1,2,2-Tetrachloroethane	83	11.888	11.888	(1.136)	4112700	30.0000	32.3(A)
59	Isopropylbenzene	105	12.256	12.256	(1.171)	7826254	30.0000	30.7(A)
60	N-Propylbenzene	91	12.921	12.921	(1.235)	8148126	30.0000	31.7(A)
61	4-Ethyltoluene	105	13.123	13.123	(1.254)	5960031	30.0000	30.6(AM)
62	1,3,5-Trimethylbenzene	105	13.224	13.224	(1.264)	6754821	30.0000	32.5(A)
63	1,2,4-Trimethylbenzene	105	13.835	13.835	(1.322)	5714564	30.0000	31.8(A)
64	1,3-Dichlorobenzene	146	14.197	14.197	(1.357)	4450352	30.0000	28.7
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.274	14.274	(1.364)	599201	10.0000	10.1
68	1,4-Dichlorobenzene	146	14.322	14.322	(1.369)	4548654	30.0000	29.7
69	1,2-Dichlorobenzene	146	14.838	14.838	(1.418)	4027787	30.0000	30.2(A)
71	1,2,4-Trichlorobenzene	180	17.390	17.390	(1.662)	1009404	30.0000	18.2
72	Naphthalene	128	17.574	17.574	(1.680)	1704870	30.0000	15.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04508.D
Report Date: 15-Feb-2012 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04508.D
Lab Smp Id: ical 7 8137-59-18
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

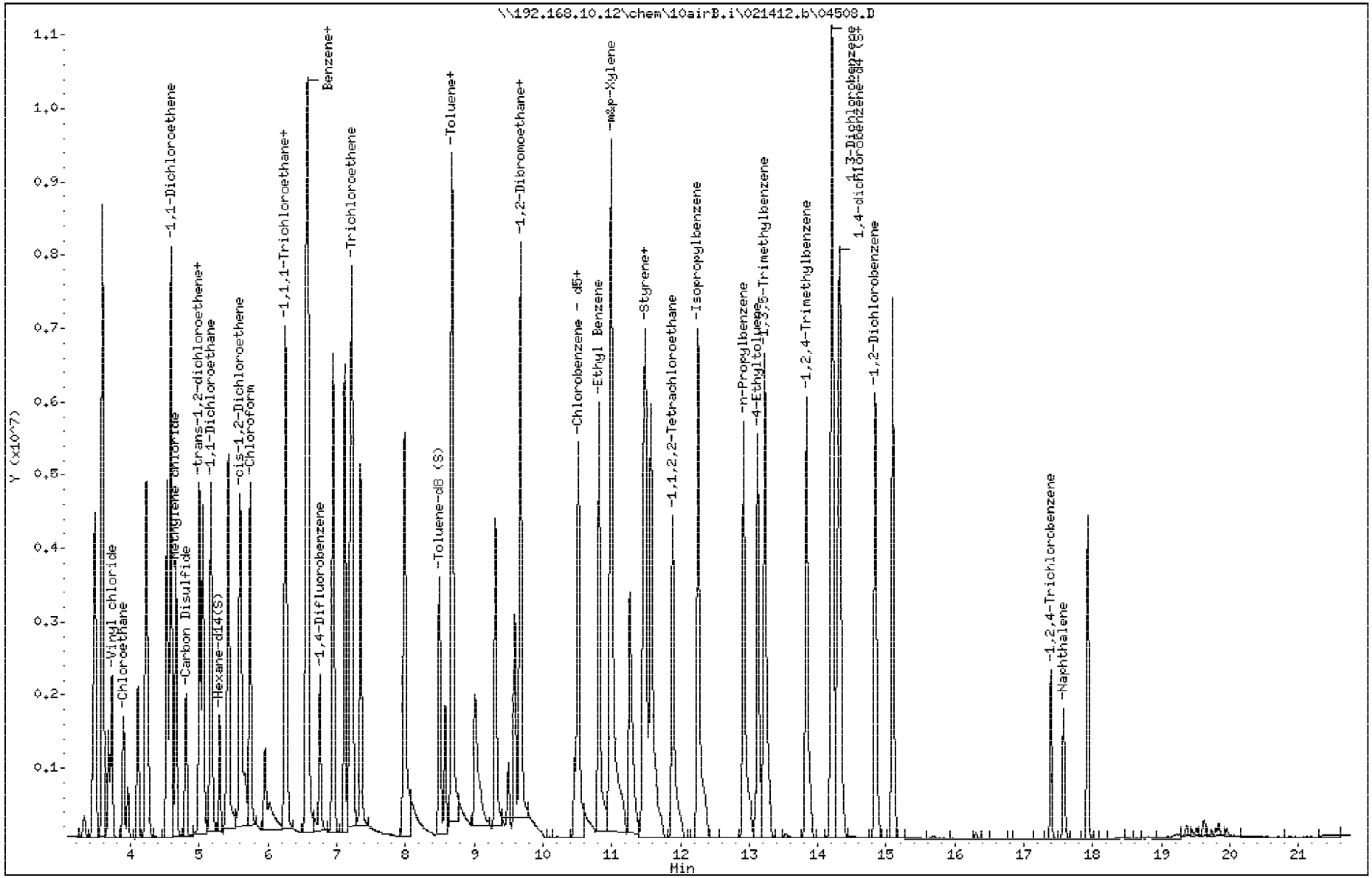
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1922673	12.36
50 Chlorobenzene - d	907290	544374	1270206	925257	1.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.76	0.08
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

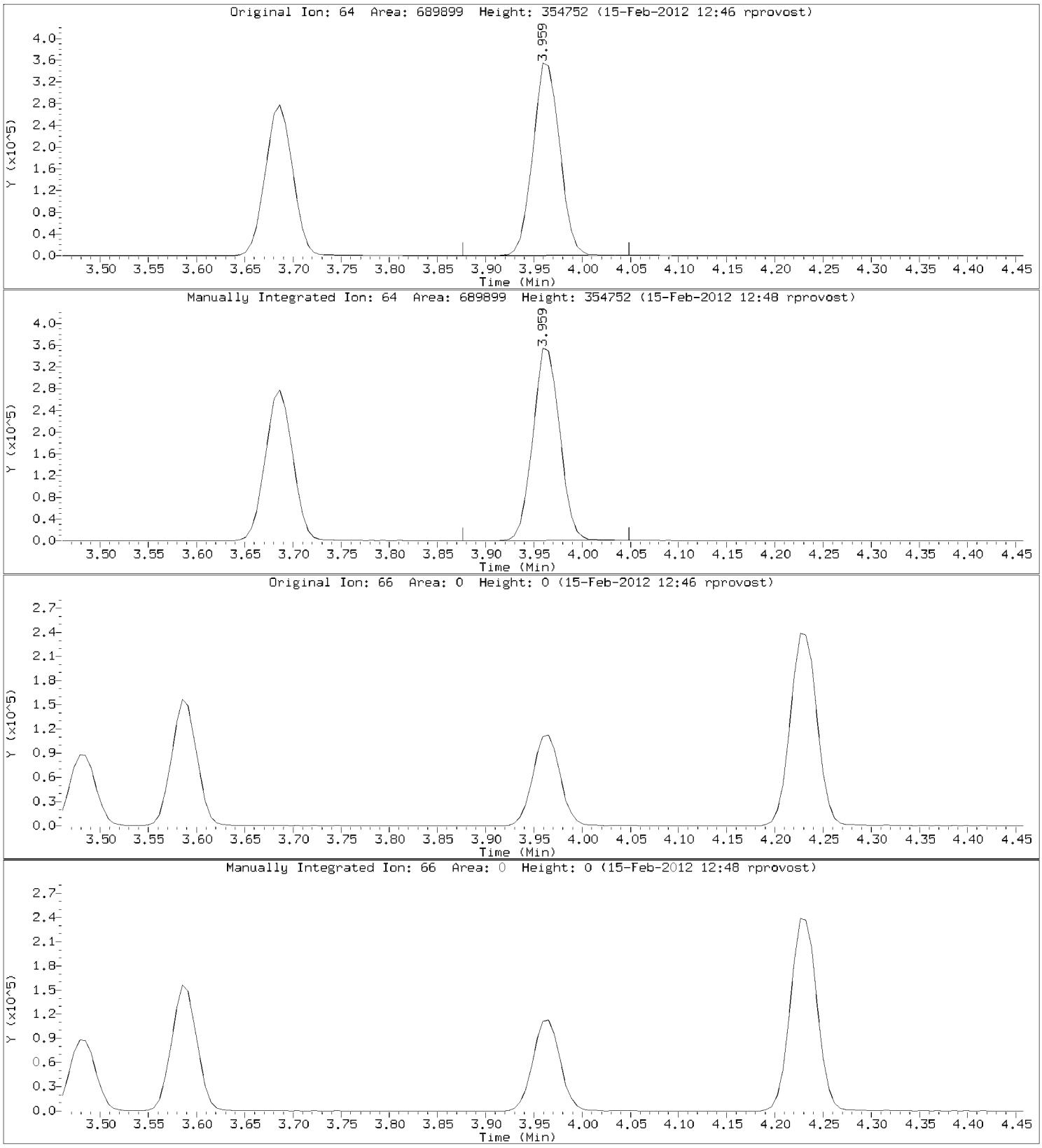
Data File: \\192.168.10.12\chem\10airB.i\021412.b\04508.D
Date : 14-FEB-2012 17:08
Client ID:
Sample Info: ical 7 8137-59-18

Instrument: 10airB.i
Operator: RTP
Column phase: J&W DB-5
Column diameter: 0.32



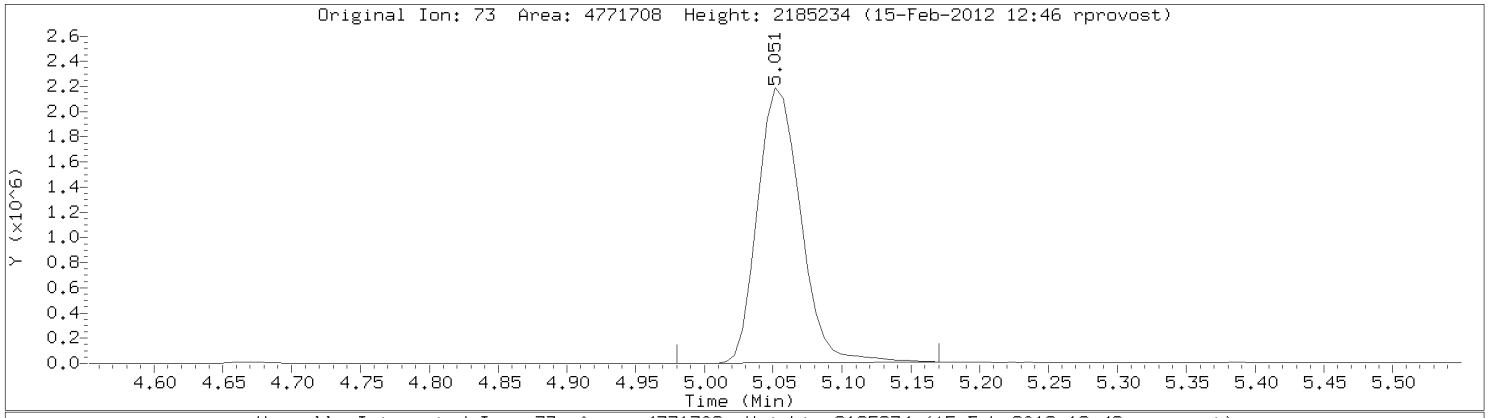
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04508.D
Injection Date: 14-FEB-2012 17:08
Instrument: 10airB.i
Lab Sample ID: ical 7 8137-59-18

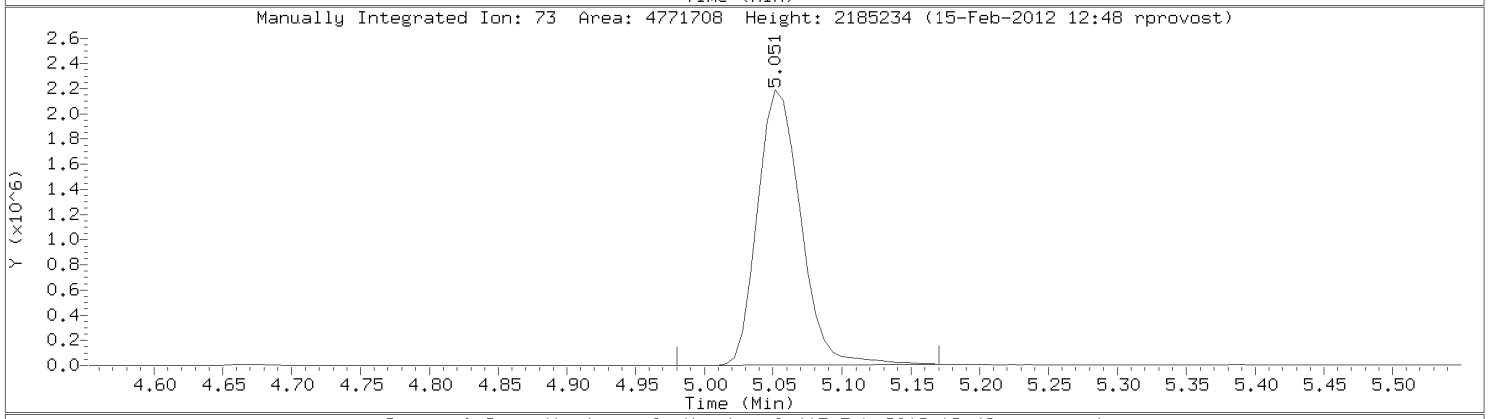
Compound: Chloroethane
CAS Number: 75-00-3

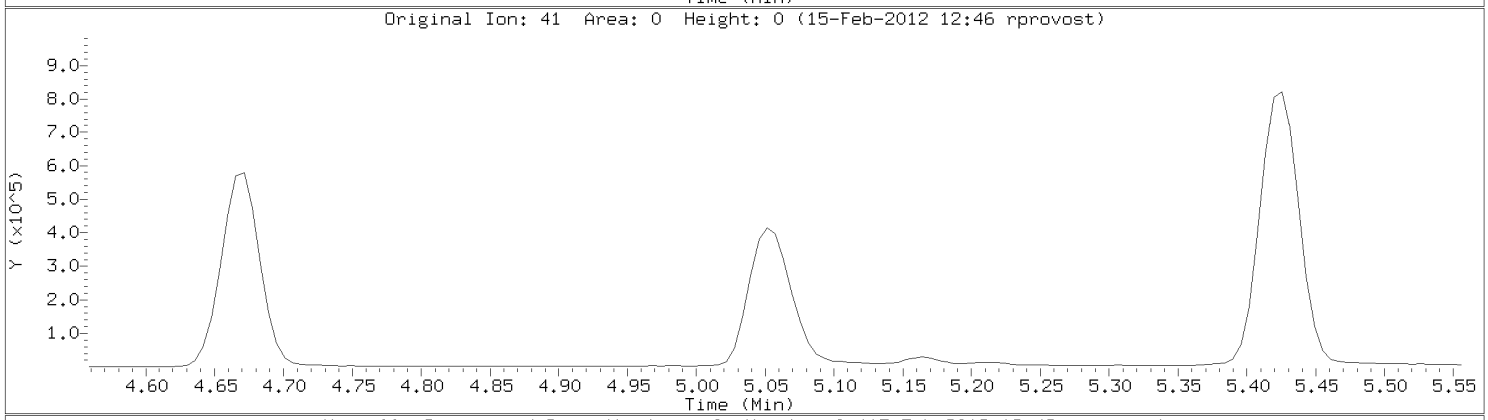


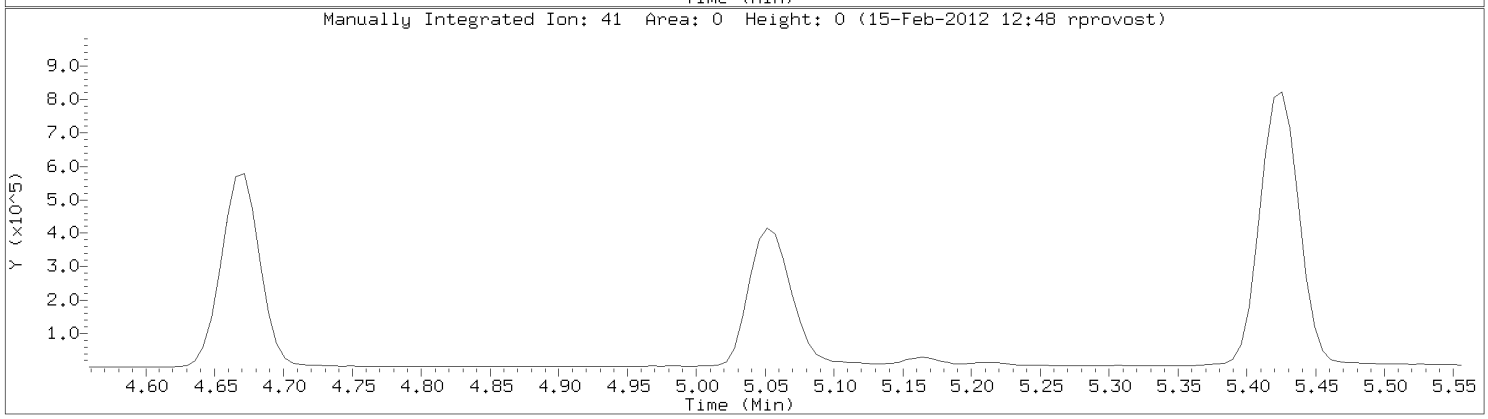
Data File: \\192.168.10.12\chem\10airB.i\021412.b/04508.D
Injection Date: 14-FEB-2012 17:08
Instrument: 10airB.i
Lab Sample ID: ical 7 8137-59-18

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



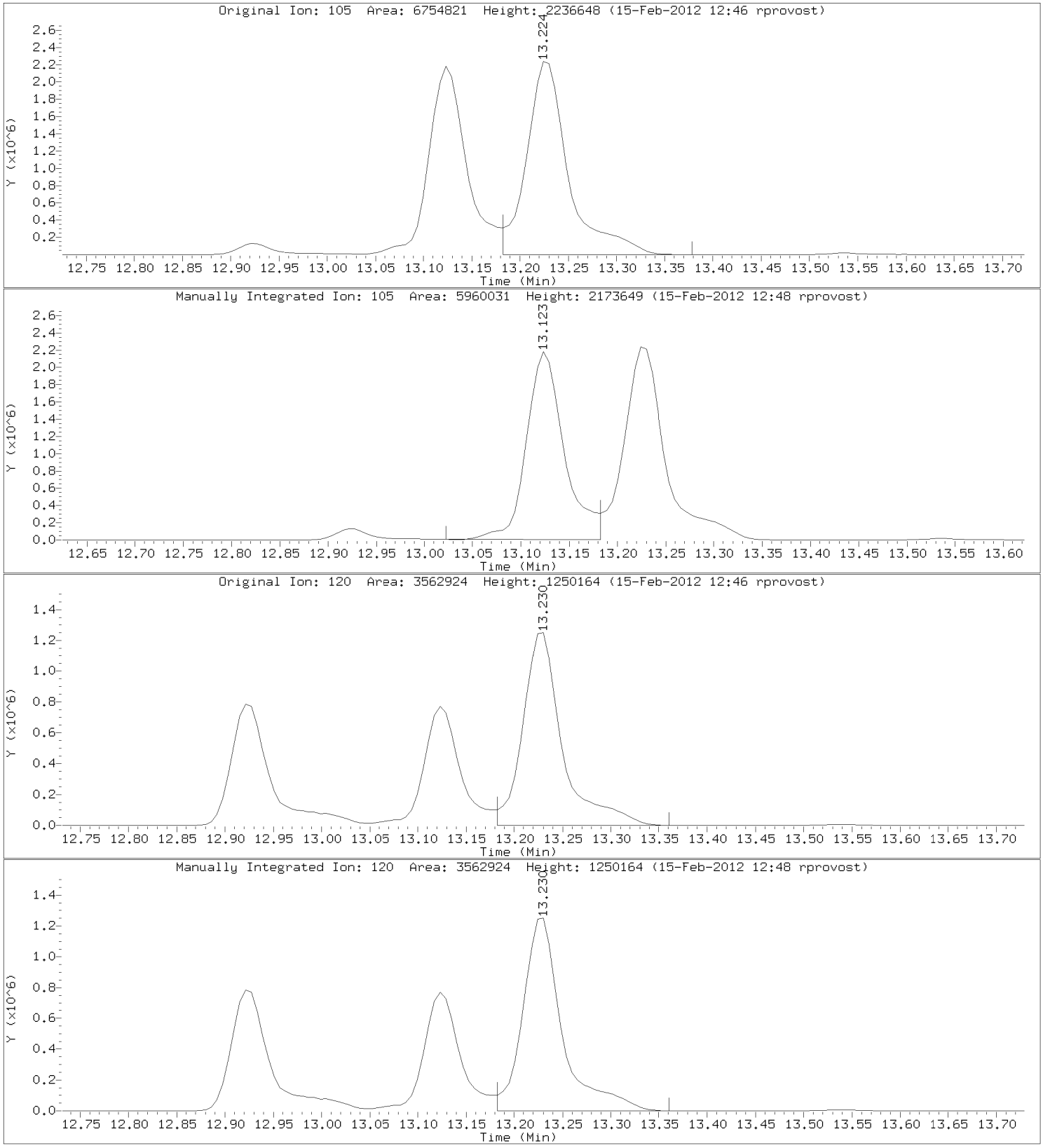




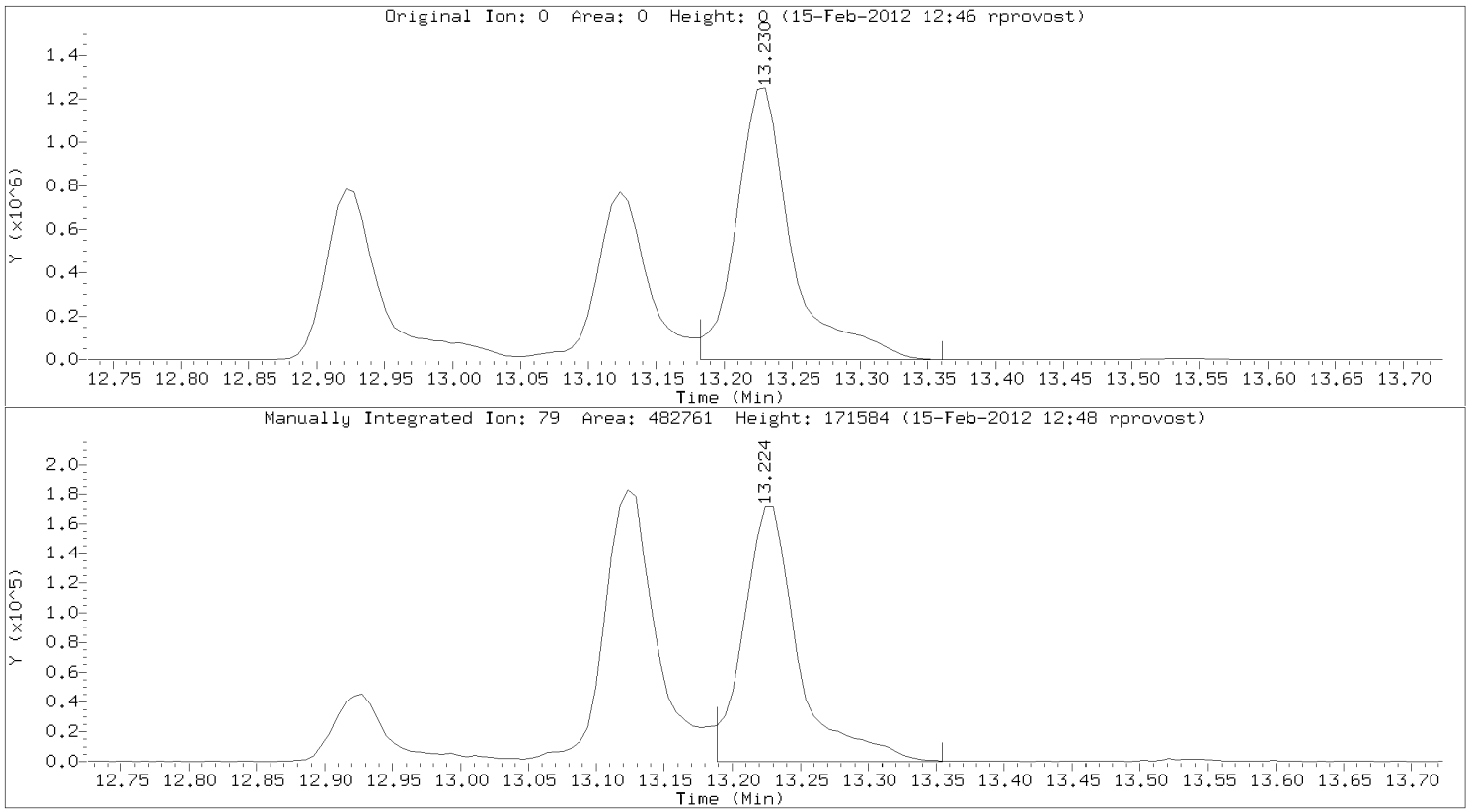


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04508.D
Injection Date: 14-FEB-2012 17:08
Instrument: 10airB.i
Lab Sample ID: ical 7 8137-59-18

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04508.D
Injection Date: 14-FEB-2012 17:08
Instrument: 10airB.i
Lab Sample ID: ical 7 8137-59-18



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04509.D
Report Date: 15-Feb-2012 12:56

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\021412.b\04509.D
Lab Smp Id: ssv 8137-52-17
Inj Date : 14-FEB-2012 17:39
Operator : RTP Inst ID: 10airB.i
Smp Info : ssv 8137-52-17
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Meth Date : 15-Feb-2012 12:56 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	641957	11.7826	11.8
	8 Chloroethane	64	3.965	3.959	(0.587)	302005	13.3984	13.4(M)
	13 1,1-Dichloroethene	61	4.540	4.535	(0.672)	882706	10.2050	10.2
	15 Methylene chloride	49	4.653	4.654	(0.689)	508835	11.5631	11.6
	16 Carbon Disulfide	76	4.807	4.808	(0.712)	1601878	19.3582	19.4(R)
	17 trans-1,2-dichloroethene	96	5.009	5.004	(0.742)	613203	9.44339	9.44
	18 Methyl Tert Butyl Ether	73	5.063	5.051	(0.750)	1461794	9.91932	9.92(M)
	20 1,1-Dichloroethane	63	5.175	5.176	(0.766)	833453	9.05855	9.06
$	21 Hexane-d14(S)	66	5.300	5.301	(0.785)	485498	7.91244	7.91
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	589861	9.38556	9.38
	27 Chloroform	83	5.739	5.740	(0.850)	1080445	9.02780	9.03
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.925)	1184856	8.99569	9.00
	30 1,2-Dichloroethane	62	6.262	6.268	(0.927)	662417	8.65373	8.65
	31 Benzene	78	6.547	6.553	(0.969)	1392574	8.01109	8.01
	32 Carbon tetrachloride	117	6.570	6.577	(0.973)	1215758	9.55175	9.55
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1464616	10.0000	
	38 Trichloroethene	130	7.217	7.224	(1.069)	733932	8.95919	8.96
$	43 Toluene-d8 (S)	98	8.570	8.577	(1.269)	1055257	9.02943	9.03
	44 Toluene	91	8.665	8.672	(1.283)	1685509	8.39751	8.40
	45 1,1,2-Trichloroethane	97	8.671	8.678	(1.284)	551708	8.75707	8.76
	48 1,2-Dibromoethane	107	9.585	9.592	(0.917)	854657	11.1154	11.1
	49 Tetrachloroethene	166	9.668	9.681	(0.925)	1171281	11.9256	11.9
*	50 Chlorobenzene - d5	117	10.458	10.464	(1.000)	678227	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04509.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
51	Chlorobenzene	112	10.511	10.518	(1.005)	1286682	10.5433	10.5
52	Ethyl Benzene	91	10.808	10.814	(1.033)	1752800	10.3794	10.4
53	m&p-Xylene	91	10.980	10.993	(1.050)	1647840	11.4161	11.4
56	Styrene	104	11.485	11.491	(1.098)	1164224	9.58949	9.59
57	o-Xylene	91	11.562	11.574	(1.106)	1490308	11.9106	11.9
58	1,1,2,2-Tetrachloroethane	83	11.882	11.889	(1.136)	874940	9.36917	9.37
59	Isopropylbenzene	105	12.244	12.257	(1.171)	1954392	10.4513	10.4
60	N-Propylbenzene	91	12.915	12.922	(1.235)	2070868	10.9969	11.0(AQM)
61	4-Ethyltoluene	105	13.117	13.123	(1.254)	1620073	11.3633	11.4(M)
62	1,3,5-Trimethylbenzene	105	13.218	13.224	(1.264)	1620566	10.6509	10.6
63	1,2,4-Trimethylbenzene	105	13.823	13.836	(1.322)	1423522	10.7955	10.8
64	1,3-Dichlorobenzene	146	14.185	14.198	(1.356)	1161109	10.2219	10.2
$ 66	1,4-dichlorobenzene-d4 (S)	150	14.268	14.275	(1.364)	390780	9.02962	9.03
68	1,4-Dichlorobenzene	146	14.310	14.322	(1.368)	1126239	10.0379	10.0
69	1,2-Dichlorobenzene	146	14.832	14.839	(1.418)	1009340	10.3105	10.3
71	1,2,4-Trichlorobenzene	180	17.384	17.390	(1.662)	469324	10.8392	10.8
72	Naphthalene	128	17.568	17.575	(1.680)	719400	11.8615	11.9

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04509.D
Report Date: 15-Feb-2012 12:56

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 04509.D
Lab Smp Id: ssv 8137-52-17
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

Calibration Date: 14-FEB-2012
Calibration Time: 16:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1464616	-14.41
50 Chlorobenzene - d	907290	544374	1270206	678227	-25.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.06

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04509.D
Report Date: 15-Feb-2012 12:56

Pace Analytical Services, Inc.

RECOVERY REPORT

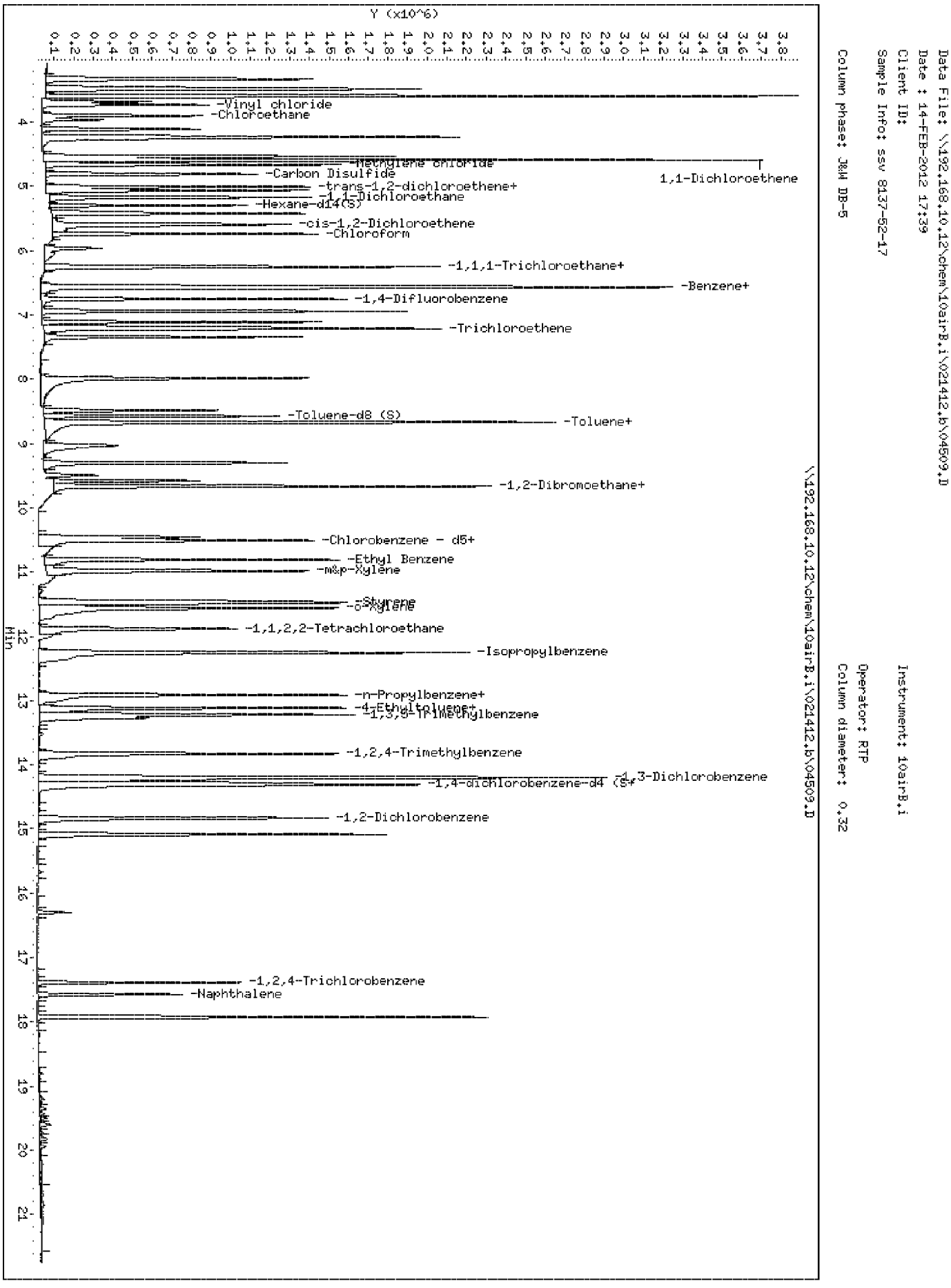
Client Name: Client SDG: 021412.b
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ssv 8137-52-17
Level: LOW Operator: RTP
Data Type: MS DATA SampleType: LCS
SpikeList File: SSV.spk Quant Type: ISTD
Sublist File: btex+chlor.sub
Method File: \\192.168.10.12\chem\10airB.i\021412.b\TO15_045-12.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
5 Vinyl chloride	10.0	11.8	117.83	60-140
8 Chloroethane	10.0	13.4	133.98	60-140
13 1,1-Dichloroethene	10.0	10.2	102.05	60-140
15 Methylene chloride	10.0	11.6	115.63	60-140
16 Carbon Disulfide	10.0	19.4	193.58*	60-140
17 trans-1,2-dichloro	10.0	9.44	94.43	60-140
18 Methyl Tert Butyl	10.0	9.92	99.19	60-140
20 1,1-Dichloroethane	10.0	9.06	90.59	60-140
24 cis-1,2-Dichloroet	10.0	9.38	93.86	60-140
27 Chloroform	10.0	9.03	90.28	60-140
29 1,1,1-Trichloroeth	10.0	9.00	89.96	60-140
30 1,2-Dichloroethane	10.0	8.65	86.54	60-140
31 Benzene	10.0	8.01	80.11	60-140
32 Carbon tetrachlori	10.0	9.55	95.52	60-140
38 Trichloroethene	10.0	8.96	89.59	60-140
44 Toluene	10.0	8.40	83.98	60-140
45 1,1,2-Trichloroeth	10.0	8.76	87.57	60-140
48 1,2-Dibromoethane	10.0	11.1	111.15	60-140
49 Tetrachloroethene	10.0	11.9	119.26	60-140
51 Chlorobenzene	10.0	10.5	105.43	60-140
52 Ethyl Benzene	10.0	10.4	103.79	60-140
53 m&p-Xylene	10.0	11.4	114.16	60-140
56 Styrene	10.0	9.59	95.89	60-140
57 o-Xylene	10.0	11.9	119.11	60-140
58 1,1,2,2-Tetrachlor	10.0	9.37	93.69	60-140
59 Isopropylbenzene	10.0	10.4	104.51	60-140
61 4-Ethyltoluene	10.0	11.4	113.63	60-140
62 1,3,5-Trimethylben	10.0	10.6	106.51	60-140
63 1,2,4-Trimethylben	10.0	10.8	107.96	60-140
64 1,3-Dichlorobenzen	10.0	10.2	102.22	60-140
68 1,4-Dichlorobenzen	10.0	10.0	100.38	60-140
69 1,2-Dichlorobenzen	10.0	10.3	103.10	60-140
71 1,2,4-Trichloroben	10.0	10.8	108.39	60-140
72 Naphthalene	10.0	11.9	118.61	60-140

SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
$ 21 Hexane-d14(S)	10.0	7.91	79.12	70-130

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04509.D
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SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
$ 43 Toluene-d8 (S)	10.0	9.03	90.29	70-130
$ 66 1,4-dichlorobenzen	10.0	9.03	90.30	70-130

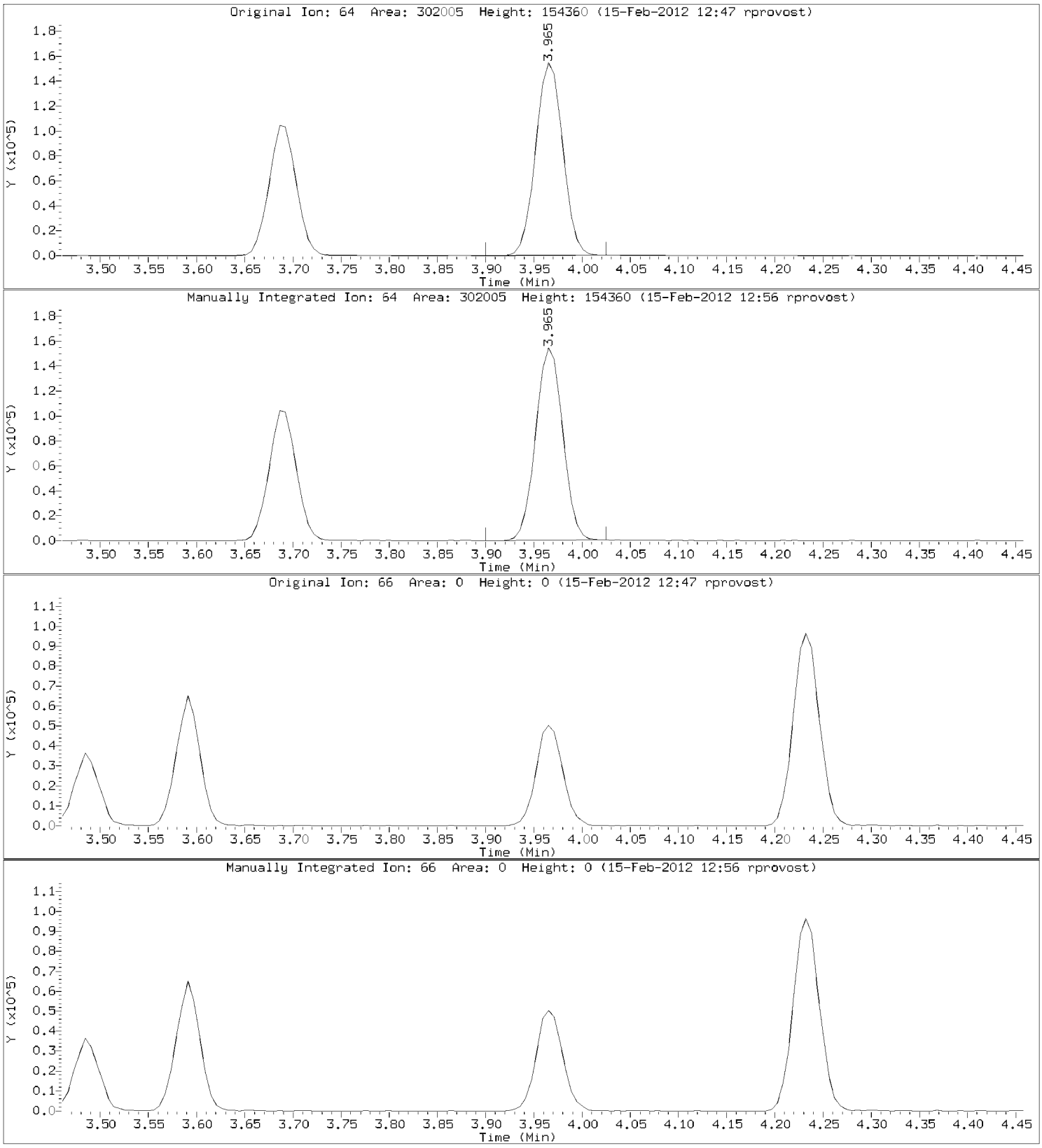


Data File: \\192.168.10.12\chem\10airB.i\021412.b\04509.D
Date : 14-FEB-2012 17:39
Client ID:
Sample Info: ssv 8437-52-17
Column phase: J&W DB-5

Instrument: 10airB.i
Operator: RTP
Column diameter: 0.32

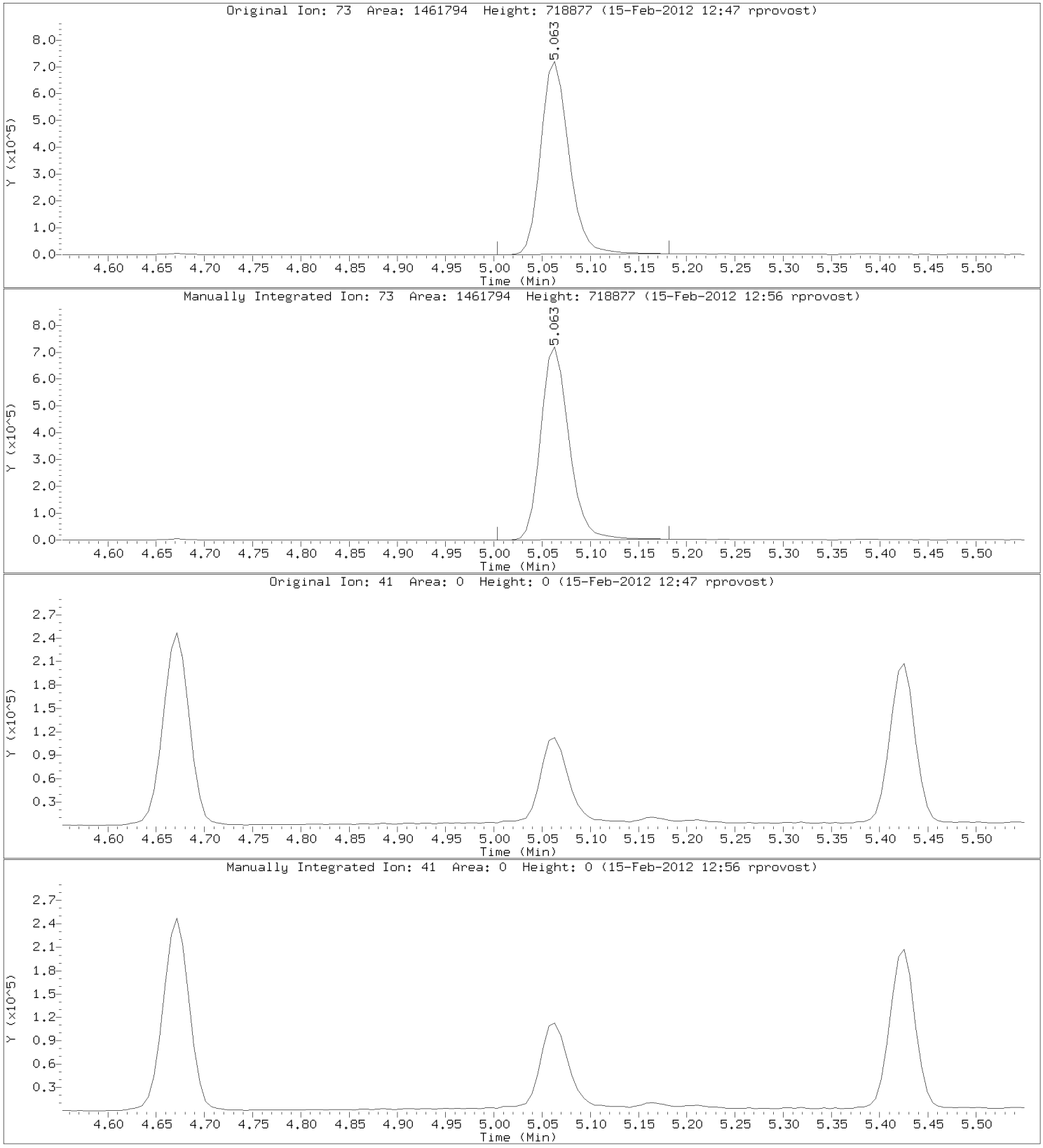
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Injection Date: 14-FEB-2012 17:39
Instrument: 10airB.i
Lab Sample ID: ssv 8137-52-17

Compound: Chloroethane
CAS Number: 75-00-3



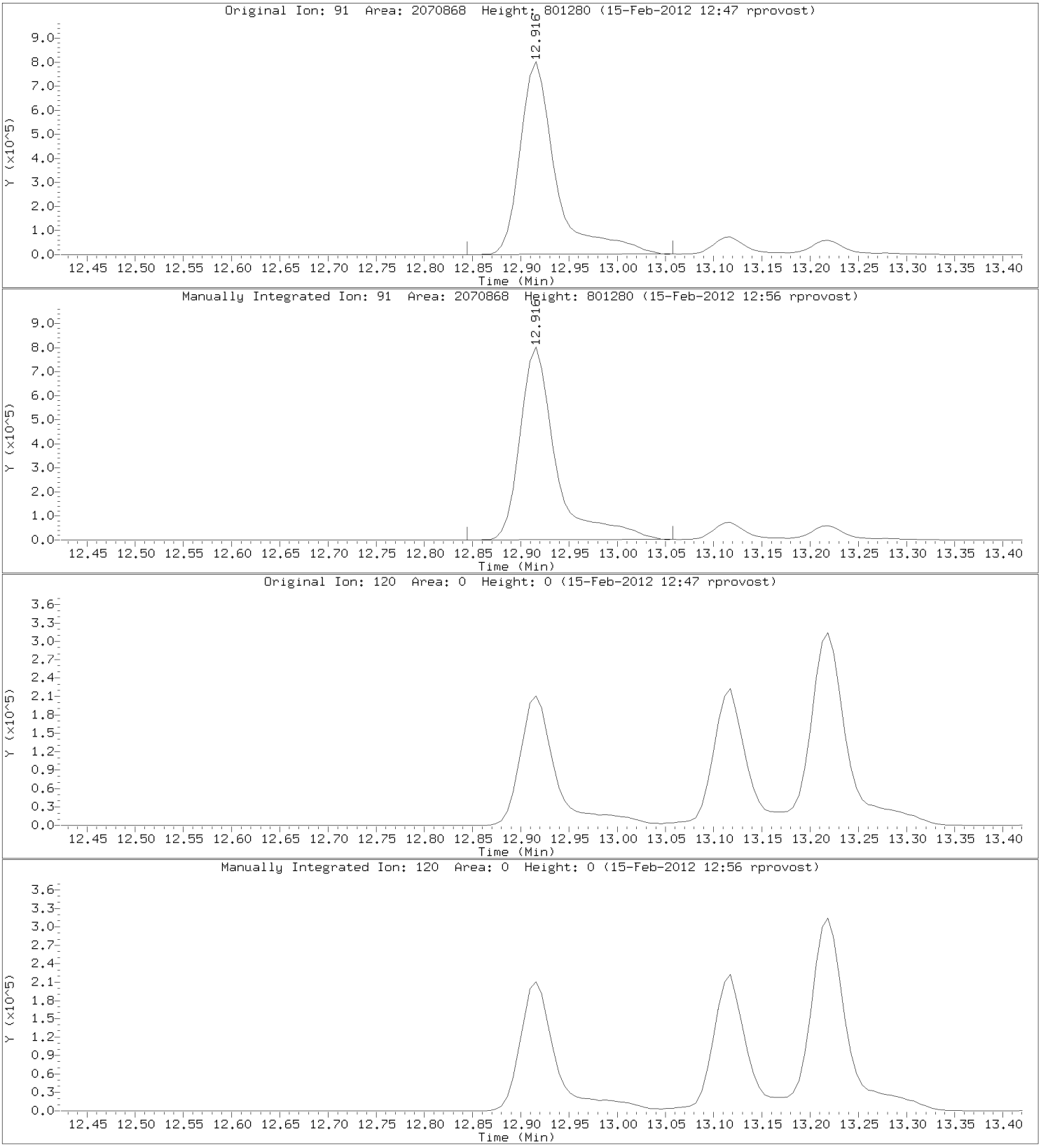
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Injection Date: 14-FEB-2012 17:39
Instrument: 10airB.i
Lab Sample ID: ssv 8137-52-17

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



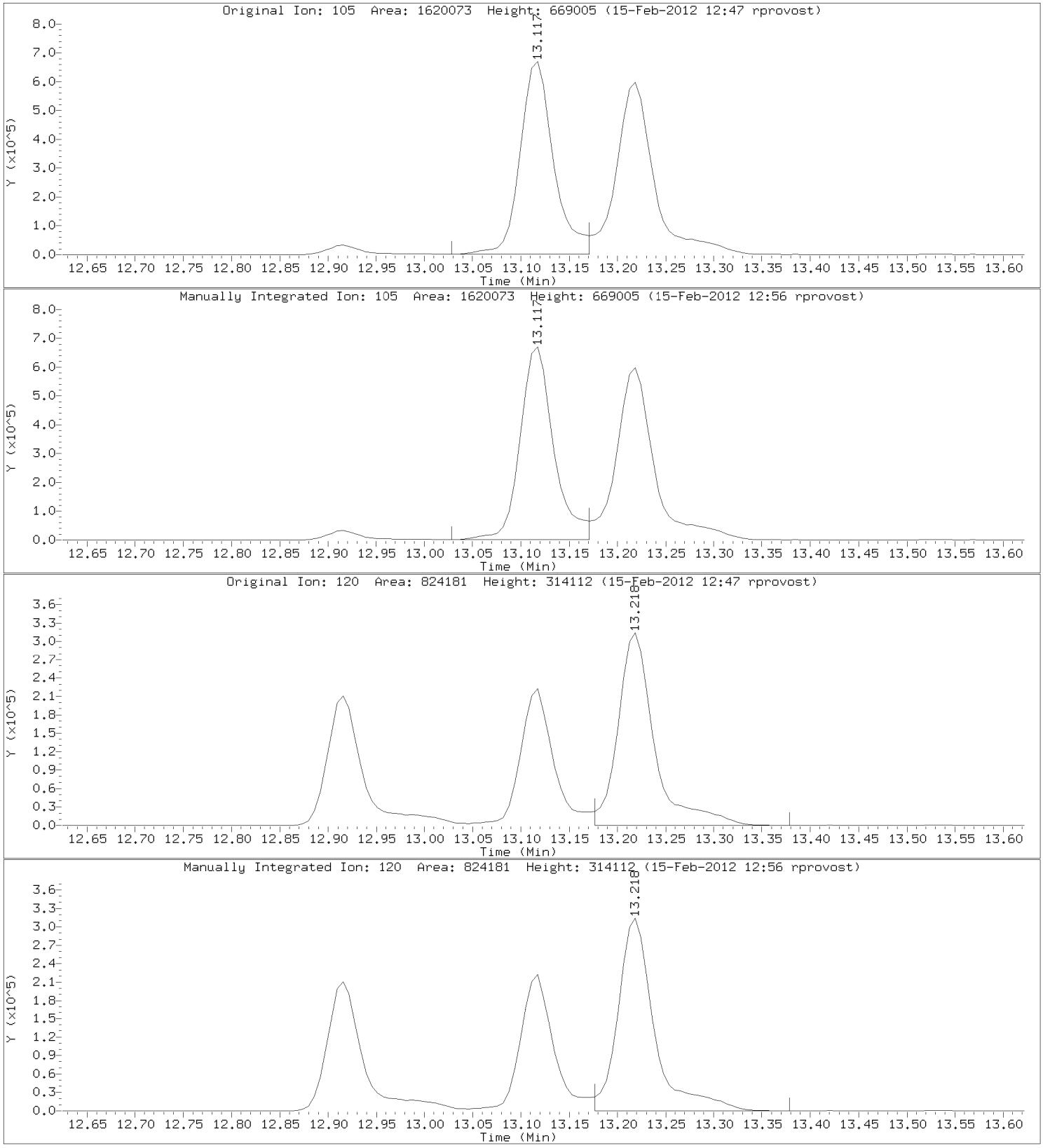
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Injection Date: 14-FEB-2012 17:39
Instrument: 10airB.i
Lab Sample ID: ssv 8137-52-17

Compound: N-Propylbenzene
CAS Number: 103-65-1

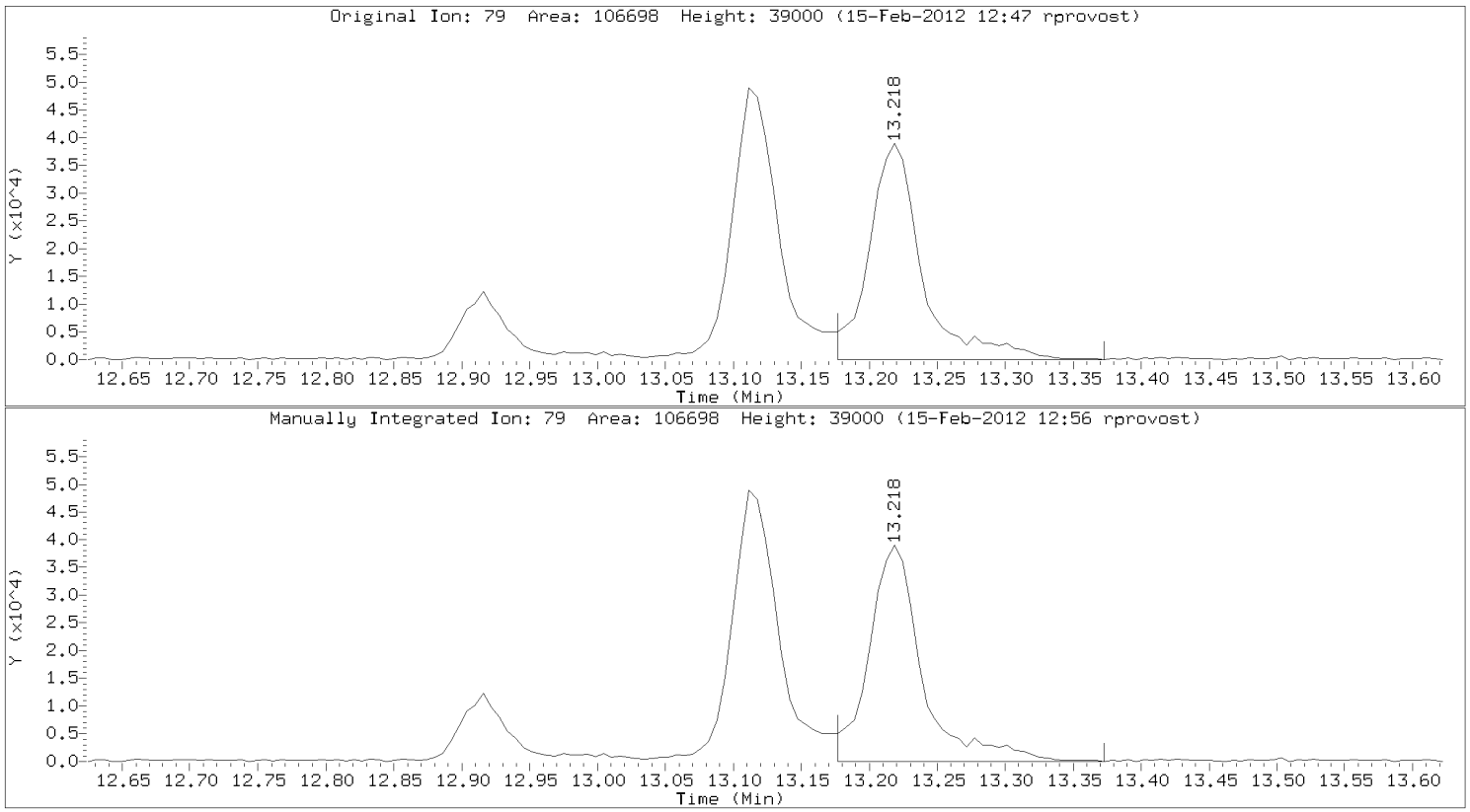


Data File: \\192.168.10.12\chem\10airB.i\021412.b/04509.D
Injection Date: 14-FEB-2012 17:39
Instrument: 10airB.i
Lab Sample ID: ssv 8137-52-17

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airB.i\021412.b/04509.D
Injection Date: 14-FEB-2012 17:39
Instrument: 10airB.i
Lab Sample ID: ssv 8137-52-17



Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Calibration File Names:
Level 1: \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Level 2: \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Level 3: \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Level 4: \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Level 5: \\192.168.10.12\chem\10airD.i\022712.B\05809.D
Level 6: \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Level 7: \\192.168.10.12\chem\10airD.i\022712.B\05811.D

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
1 Propylene	1889	2915	5662	16880	178550	357491					
	548066						LINR	0.00521	0.13453		0.99992
2 Dichlorodifluoromethane	7363	18341	40658	109517	856801	1686439					
	2505873						LINR	-0.01603	0.61750		0.99939
3 Dichlorotetrafluoroethane	0.49453	0.61406	0.55900	0.70884	0.59206	0.55798					
	0.52170						AVRG		0.57831		12.12786
4 Chloromethane	0.21150	0.24015	0.23439	0.30511	0.24363	0.21690					
	0.19753						AVRG		0.23560		14.80245

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Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
5 Vinyl chloride	0.16711	0.17605	0.18035	0.23569	0.20843	0.19921					
	0.19683						AVRG		0.19481		11.87006
6 1,3-Butadiene	1616	3291	7612	21587	183688	358786					
	542193						LINR	-0.00922	0.13323		0.99964
7 Bromomethane	0.16621	0.17521	0.17097	0.21523	0.18815	0.18184					
	0.18397						AVRG		0.18308		8.79293
8 Chloroethane	0.06696	0.07417	0.07011	0.09992	0.08338	0.08025					
	0.07944						AVRG		0.07918		13.69793
9 Ethanol	2194	4472	9632	25621	134478	277944					
	+++++						LINR	-0.02504	0.10251		0.99882
10 Vinyl Bromide	0.20366	0.22199	0.20917	0.27549	0.25877	0.25197					
	0.24948						AVRG		0.23865		11.38365
11 Acrolein	0.05127	0.06600	0.05086	0.07994	0.06982	0.06918					
	0.06599						AVRG		0.06472		16.12618

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Trichlorofluoromethane	0.60663	0.70470	0.66600	0.84379	0.71163	0.66173					
	0.61672						AVRG		0.68731		11.57562
13 Acetone	8972	16636	34654	87490	480461	+++++					
	+++++						LINR	-0.02763	0.35973		0.99628
14 Isopropyl Alcohol	0.34349	0.46979	0.41916	0.56039	0.31340	+++++					
	+++++						AVRG		0.42124		23.56011
15 1,1-Dichloroethene	0.29790	0.35579	0.36125	0.46617	0.40573	0.37392					
	0.36030						AVRG		0.37444		13.78022
16 Acrylonitrile	1121	3770	9226	25617	176879	336747					
	484572						LINR	-0.03301	0.12042		0.99749
17 Tert Butyl Alcohol	0.42159	0.60348	0.54887	0.63968	0.34649	+++++					
	+++++						AVRG		0.51202		24.23639
18 Freon 113	0.43295	0.52174	0.48483	0.60117	0.51465	0.49139					
	0.46529						AVRG		0.50172		10.58021

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
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Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Methylene chloride	7755	7981	17855	45639	330541	628874					
	918012						LINR	-0.03435	0.22666		0.99834
20 Allyl Chloride	921	2128	5207	14624	128077	251047					
	378333						LINR	-0.00761	0.09310		0.99962
21 Carbon Disulfide	18489	13470	28485	70184	597097	1183131					
	1784701						LINR	-0.01503	0.43722		0.99979
22 trans-1,2-dichloroethene	0.20291	0.24286	0.22207	0.28969	0.26254	0.25534					
	0.25331						AVRG		0.24696		11.40062
23 Methyl Tert Butyl Ether	4344	13308	30405	88427	651235	1326575					
	1990864						LINR	-0.00868	0.48905		0.99978
24 Vinyl Acetate	3532	11339	25514	75332	670078	1316531					
	+++++						LINR	-0.00057	0.49708		0.99958
25 1,1-Dichloroethane	0.33265	0.40247	0.38100	0.48924	0.41381	0.39338					
	0.36752						AVRG		0.39715		12.20571

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	30.0000 Level 7											
27 Methyl Ethyl Ketone	1411	3392	8012	22336	129164	263036						
	396622						LINR	-0.02123	0.09677		0.99964	
28 n-Hexane	0.28318	0.30458	0.28519	0.33658	0.29804	0.28774						
	0.27372						AVRG		0.29557		7.00087	
29 cis-1,2-Dichloroethene	0.19342	0.19728	0.19150	0.26329	0.25478	0.25217						
	0.25058						AVRG		0.22900		14.39572	
30 Ethyl Acetate	5207	14500	35063	105592	628209	1248529						
	1830276						LINR	-0.02834	0.45078		0.99891	
31 Bromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
32 Chloroform	0.45021	0.53901	0.50988	0.64394	0.57476	0.55260						
	0.53421						AVRG		0.54352		10.90749	
33 Tetrahydrofuran	1514	4220	10647	35501	297321	606727						
	903878						LINR	-0.00223	0.22321		0.99966	

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
34 1,1,1-Trichloroethane	5692	13973	33108	90295	758229	1497962	2225765	LINR	-0.01159	0.54934		0.99942
35 1,2-Dichloroethane	3599	9522	22888	63077	518095	999266	1443064	LINR	-0.02204	0.35929		0.99795
36 Benzene	0.52398	0.56124	0.53239	0.74211	0.70168	0.68133	0.65258	AVRG		0.62790		13.99308
37 Carbon tetrachloride	6201	15593	38762	103553	888450	1703112	+++++	LINR	-0.00655	0.64427		0.99901
38 Cyclohexane	2328	5369	14598	45975	402133	732153	+++++	LINR	-0.00872	0.28009		0.99662
40 2,2,4-Trimethylpentane	8073	19285	47674	143957	1257988	2501872	3665483	LINR	-0.00994	0.90974		0.99902
41 Heptane	2895	6895	18858	57549	517945	1002847	1419570	LINR	-0.01902	0.35668		0.99677

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
42 1,2-Dichloropropane	0.16532	0.21610	0.20118	0.26964	0.24201	0.23625					
	0.22273						AVRG		0.22189		14.89629
43 Trichloroethene	4911	9506	21690	59973	566112	1170315					
	1761435						LINR	0.00294	0.43386		0.99988
44 1,4-Dioxane	1576	4296	11349	35476	169107	347494					
	522734						LINR	-0.02809	0.12725		0.99916
45 Bromodichloromethane	5226	13248	31068	88290	791903	1579737					
	2308948						LINR	-0.00995	0.57344		0.99898
46 Methyl Isobutyl Ketone	4963	13535	37095	126646	607420	1246378					
	+++++						LINR	-0.02252	0.46145		0.99795
47 cis-1,3-Dichloropropene	2870	7405	19048	56460	555557	1154659					
	1731273						LINR	0.00636	0.42749		0.99983
48 trans-1,3-Dichloropropene	2282	4131	9889	36001	479505	1023845					
	1569214						LINR	0.02456	0.38673		0.99983

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
50 Toluene	8456	18447	43051	121704	1155656	2406454					
	3572231						LINR	0.00212	0.88362		0.99966
51 1,1,2-Trichloroethane	0.22869	0.29726	0.25697	0.34667	0.31521	0.31369					
	0.30654						AVRG		0.29501		13.42360
52 Methyl Butyl Ketone	5591	15735	42350	142936	562967	1138278					
	+++++						LINR	-0.03616	0.74495		0.99752
53 Dibromochloromethane	5341	11801	28232	81916	895636	1896973					
	2860381						LINR	0.01084	1.24609		0.99982
54 1,2-Dibromoethane	5167	9988	22557	67699	697784	1477621					
	2233613						LINR	0.00958	0.97165		0.99986
55 Tetrachloroethene	5095	9872	22954	66694	713732	1519991					
	2327364						LINR	0.01401	1.00927		0.99995
57 Chlorobenzene	1.03421	1.06736	0.96599	1.11276	1.43920	1.44386					
	1.44589						AVRG		1.21561		17.86234

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
58 Ethyl Benzene	6249	13096	36031	130615	1441925	3032659						
	4607541						LINR	0.01415	2.00558		0.99987	
59 m&p-Xylene	8515	23488	68295	230226	2316512	4717002						
	6853212						LINR	-0.00450	1.51031		0.99837	
60 2-Heptanone	0.51127	0.89598	1.05785	1.62872	0.56310	0.15605						
	0.08325						AVRG		0.69946		77.42300	<-
61 Bromoform	5566	10973	26873	82722	928302	1983934						
	3039214						LINR	0.01678	1.31899		0.99994	
62 Styrene	4317	9655	28424	99363	1052684	2278860						
	3457215						LINR	0.01722	1.50462		0.99989	
63 o-Xylene	5010	12202	34325	109671	1041337	2174053						
	3291140						LINR	0.00720	1.43098		0.99985	
64 1,1,2,2-Tetrachloroethane	6806	16767	39303	114227	850484	1759122						
	2653664						LINR	-0.00583	1.14973		0.99982	

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
65 Isopropylbenzene	10099	25570	58649	178282	1691458	3538545	5319432	LINR	0.00464	2.31592		0.99977
66 N-Propylbenzene	7185	14040	41745	171018	1786001	3732404	5698165	LINR	0.01395	2.47695		0.99990
67 4-Ethyltoluene	5846	10400	35369	139868	1408448	2989996	4589734	LINR	0.01658	1.99127		0.99997
68 1,3,5-Trimethylbenzene	4312	11585	37843	131458	1354102	2865662	4326133	LINR	0.01239	1.88522		0.99984
69 1,2,4-Trimethylbenzene	4146	7552	24796	115735	1269903	2706349	4138446	LINR	0.01948	1.79966		0.99994
70 1,3-Dichlorobenzene	8044	11673	30475	97432	1100276	2383585	3593499	LINR	0.01588	1.56649		0.99981
71 Sec- Butylbenzene	6808	16418	57250	216505	1957232	4057013	5902110	LINR	-0.00084	2.59787		0.99869

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
73 Benzyl Chloride	8623	8794	20358	68859	1042094	2267616					
	3370350						LINR	0.01967	1.47892		0.99945
74 1,4-Dichlorobenzene	11433	16135	37626	110092	1080286	2348249					
	3561769						LINR	0.01222	1.54648		0.99988
75 1,2-Dichlorobenzene	7961	11919	28313	92582	971673	2109906					
	3240994						LINR	0.01814	1.40455		0.99990
76 N-Butylbenzene	5865	10929	39367	158474	1331719	2787028					
	4107824						LINR	0.00136	1.79931		0.99928
77 1,2,4-Trichlorobenzene	8772	11330	27372	80029	411811	+++++					
	+++++						LINR	-0.02075	0.56446		0.99786
78 Naphthalene	2.37597	1.96549	1.75437	2.22981	1.11800	+++++					
	+++++						AVRG		1.88873		26.09557
79 Hexachlorobutadiene	3127	8653	19138	50453	293849	+++++					
	+++++						LINR	-0.01373	0.40493		0.99899

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Compound	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
$ 26 Hexane-d14(S)	0.23581	0.23478	0.24196	0.23111	0.24056	0.24304					
	0.23956						AVRG		0.23812		1.81937
$ 49 Toluene-d8 (S)	0.78412	0.81997	0.83584	0.88958	0.82810	0.83657					
	0.83309						AVRG		0.83247		3.73566
$ 72 1,4-dichlorobenzene-d4 (S)	0.38775	0.40606	0.44297	0.53711	0.46748	0.48983					
	0.49650						AVRG		0.46110		11.41935

Report Date : 28-Feb-2012 16:23

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2012 12:18
End Cal Date : 27-FEB-2012 15:15
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Last Edit : 28-Feb-2012 08:35 skaufhold

Average %RSD Results.
Calculated Average %RSD = 14.54765
Maximun Average %RSD = 40.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Lab Smp Id: ICAL 1
Inj Date : 27-FEB-2012 12:18
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 14:45 10airD.i Quant Type: ISTD
Cal Date : 27-FEB-2012 14:16 Cal File: 05809.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Propylene	41	3.058	3.058	(0.489)	1889	0.10000	0.192(M)
2	Dichlorodifluoromethane	85	3.090	3.090	(0.494)	7363	0.10000	0.0522
3	Dichlorotetrafluoroethane	85	3.185	3.185	(0.509)	6617	0.10000	0.0833
4	Chloromethane	50	3.185	3.185	(0.509)	2830	0.10000	0.0856(M)
5	Vinyl chloride	62	3.277	3.277	(0.524)	2236	0.10000	0.0864(M)
6	1,3-Butadiene	54	3.322	3.322	(0.531)	1616	0.10000	0.100(M)
7	Bromomethane	94	3.483	3.483	(0.557)	2224	0.10000	0.0908(M)
8	Chloroethane	64	3.545	3.545	(0.567)	896	0.10000	0.0849(M)
9	Ethanol	31	3.604	3.604	(0.576)	2194	0.10000	(M)
10	Vinyl Bromide	106	3.689	3.689	(0.590)	2725	0.10000	0.0871(M)
11	Acrolein	56	3.796	3.796	(0.607)	686	0.10000	0.0806(M)
12	Trichlorofluoromethane	101	3.800	3.800	(0.608)	8117	0.10000	0.0858
13	Acetone	43	3.855	3.855	(0.616)	8972	0.10000	0.120(M)
14	Isopropyl Alcohol	45	3.891	3.891	(0.622)	4596	0.10000	(QM)
15	1,1-Dichloroethene	61	4.094	4.094	(0.655)	3986	0.10000	0.0789
16	Acrylonitrile	53	4.104	4.104	(0.656)	1121	0.10000	(M)
17	Tert Butyl Alcohol	59	4.146	4.146	(0.663)	5641	0.10000	(M)
18	Freon 113	101	4.143	4.143	(0.662)	5793	0.10000	0.0847
19	Methylene chloride	49	4.212	4.212	(0.673)	7755	0.10000	0.113
20	Allyl Chloride	76	4.215	4.215	(0.674)	921	0.10000	0.102(QM)
21	Carbon Disulfide	76	4.349	4.349	(0.695)	18489	0.10000	0.212(M)
22	trans-1,2-dichloroethene	96	4.545	4.545	(0.727)	2715	0.10000	0.0832(M)
23	Methyl Tert Butyl Ether	73	4.610	4.610	(0.737)	4344	0.10000	0.0259(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Report Date: 27-Feb-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Vinyl Acetate	43	4.715	4.715	(0.754)	3532	0.10000	0.0975(M)
	25 1,1-Dichloroethane	63	4.715	4.715	(0.754)	4451	0.10000	0.0824
$	26 Hexane-d14(S)	66	4.833	4.833	(0.773)	315521	10.0000	9.96
	27 Methyl Ethyl Ketone	72	4.940	4.940	(0.790)	1411	0.10000	(Q)
	28 n-Hexane	57	4.950	4.950	(0.791)	3789	0.10000	0.0939(Q)
	29 cis-1,2-Dichloroethene	96	5.117	5.117	(0.818)	2588	0.10000	0.0879(QM)
	30 Ethyl Acetate	43	5.153	5.153	(0.824)	5207	0.10000	(QM)
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.257	5.257	(0.841)	6024	0.10000	0.0828
	33 Tetrahydrofuran	42	5.499	5.499	(0.879)	1514	0.10000	0.0937(M)
	34 1,1,1-Trichloroethane	97	5.751	5.751	(0.920)	5692	0.10000	0.0808(M)
	35 1,2-Dichloroethane	62	5.771	5.771	(0.923)	3599	0.10000	0.0699(M)
	36 Benzene	78	6.048	6.048	(0.967)	7011	0.10000	0.0856
	37 Carbon tetrachloride	117	6.062	6.062	(0.969)	6201	0.10000	0.0850
	38 Cyclohexane	56	6.068	6.068	(0.970)	2328	0.10000	0.110(M)
*	39 1,4-Difluorobenzene	114	6.254	6.254	(1.000)	1338038	10.0000	
	40 2,2,4-Trimethylpentane	57	6.441	6.441	(1.030)	8073	0.10000	0.106(M)
	41 Heptane	43	6.607	6.607	(1.056)	2895	0.10000	0.116(M)
	42 1,2-Dichloropropane	63	6.683	6.683	(1.068)	2212	0.10000	0.0755(M)
	43 Trichloroethene	130	6.705	6.705	(1.072)	4911	0.10000	0.136
	44 1,4-Dioxane	88	6.902	6.902	(1.103)	1576	0.10000	(M)
	45 Bromodichloromethane	83	6.830	6.830	(1.092)	5226	0.10000	0.106(M)
	46 Methyl Isobutyl Ketone	43	7.434	7.434	(1.189)	4963	0.10000	(M)
	47 cis-1,3-Dichloropropene	75	7.464	7.464	(1.193)	2870	0.10000	0.139(M)
	48 trans-1,3-Dichloropropene	75	7.964	7.964	(1.273)	2282	0.10000	0.241(M)
$	49 Toluene-d8 (S)	98	8.039	8.039	(1.285)	1049188	10.0000	9.43
	50 Toluene	91	8.131	8.131	(1.300)	8456	0.10000	0.132
	51 1,1,2-Trichloroethane	97	8.144	8.144	(1.302)	3060	0.10000	0.0791(M)
	52 Methyl Butyl Ketone	43	8.471	8.471	(0.855)	5591	0.10000	(M)
	53 Dibromochloromethane	129	8.765	8.765	(0.885)	5341	0.10000	0.210
	54 1,2-Dibromoethane	107	9.036	9.036	(0.912)	5167	0.10000	0.206
	55 Tetrachloroethene	166	9.124	9.124	(0.921)	5095	0.10000	0.212
*	56 Chlorobenzene - d5	117	9.905	9.905	(1.000)	715329	10.0000	
	57 Chlorobenzene	112	9.958	9.958	(1.005)	7398	0.10000	0.0920
	58 Ethyl Benzene	91	10.259	10.259	(1.036)	6249	0.10000	0.226(M)
	59 m&p-Xylene	91	10.428	10.428	(1.053)	8515	0.20000	0.382(M)
	60 2-Heptanone	43	10.710	10.710	(1.712)	6841	0.10000	(M)
	61 Bromoform	173	10.880	10.880	(1.098)	5566	0.10000	0.224(M)
	62 Styrene	104	10.929	10.929	(1.103)	4317	0.10000	0.212(M)
	63 o-Xylene	91	11.007	11.007	(1.111)	5010	0.10000	0.176(M)
	64 1,1,2,2-Tetrachloroethane	83	11.314	11.314	(1.142)	6806	0.10000	0.0922(M)
	65 Isopropylbenzene	105	11.680	11.680	(1.179)	10099	0.10000	0.171
	66 N-Propylbenzene	91	12.347	12.347	(1.246)	7185	0.10000	0.220(M)
	67 4-Ethyltoluene	105	12.553	12.553	(1.267)	5846	0.10000	0.212(M)
	68 1,3,5-Trimethylbenzene	105	12.645	12.645	(1.277)	4312	0.10000	0.199(M)
	69 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.338)	4146	0.10000	0.237
	70 1,3-Dichlorobenzene	146	13.606	13.606	(1.374)	8044	0.10000	0.241
	71 Sec- Butylbenzene	105	13.632	13.632	(1.376)	6808	0.10000	0.173(M)
$	72 1,4-dichlorobenzene-d4 (S)	150	13.687	13.687	(1.382)	277367	10.0000	8.65
	73 Benzyl Chloride	91	13.717	13.717	(1.385)	8623	0.10000	0.316(M)
	74 1,4-Dichlorobenzene	146	13.736	13.736	(1.387)	11433	0.10000	0.212
	75 1,2-Dichlorobenzene	146	14.279	14.279	(1.441)	7961	0.10000	0.227
	76 N-Butylbenzene	91	14.550	14.550	(1.469)	5865	0.10000	0.164(M)
	77 1,2,4-Trichlorobenzene	180	16.900	16.900	(1.706)	8772	0.10000	0.00978(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Report Date: 27-Feb-2012 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
78 Naphthalene	128	17.074	17.074	(1.724)	16996	0.10000		(M)
79 Hexachlorobutadiene	225	17.440	17.440	(1.761)	3127	0.10000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05805.D
Lab Smp Id: ICAL 1
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

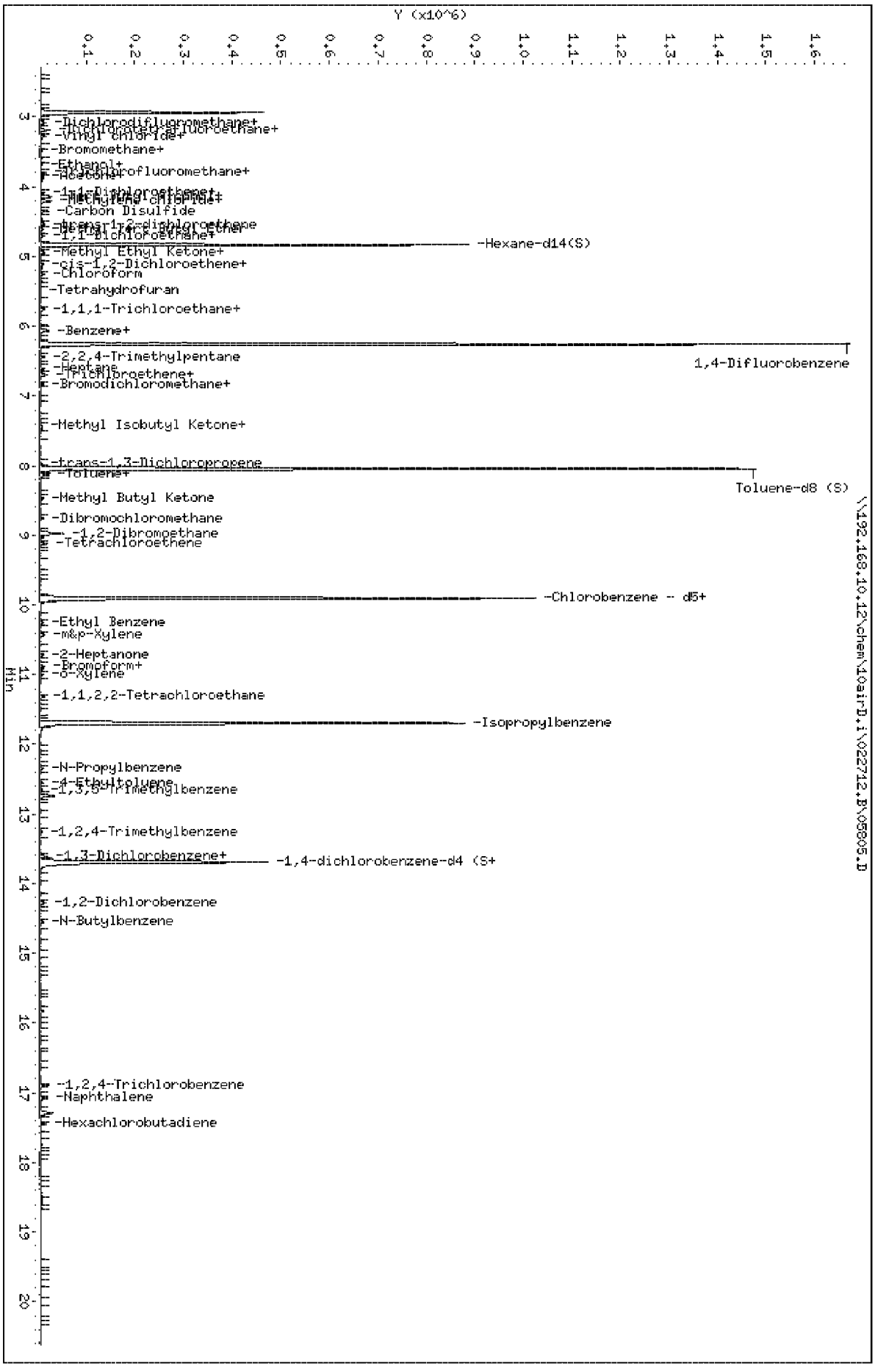
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1338038	2.30
56 Chlorobenzene - d	717767	430660	1004874	715329	-0.34

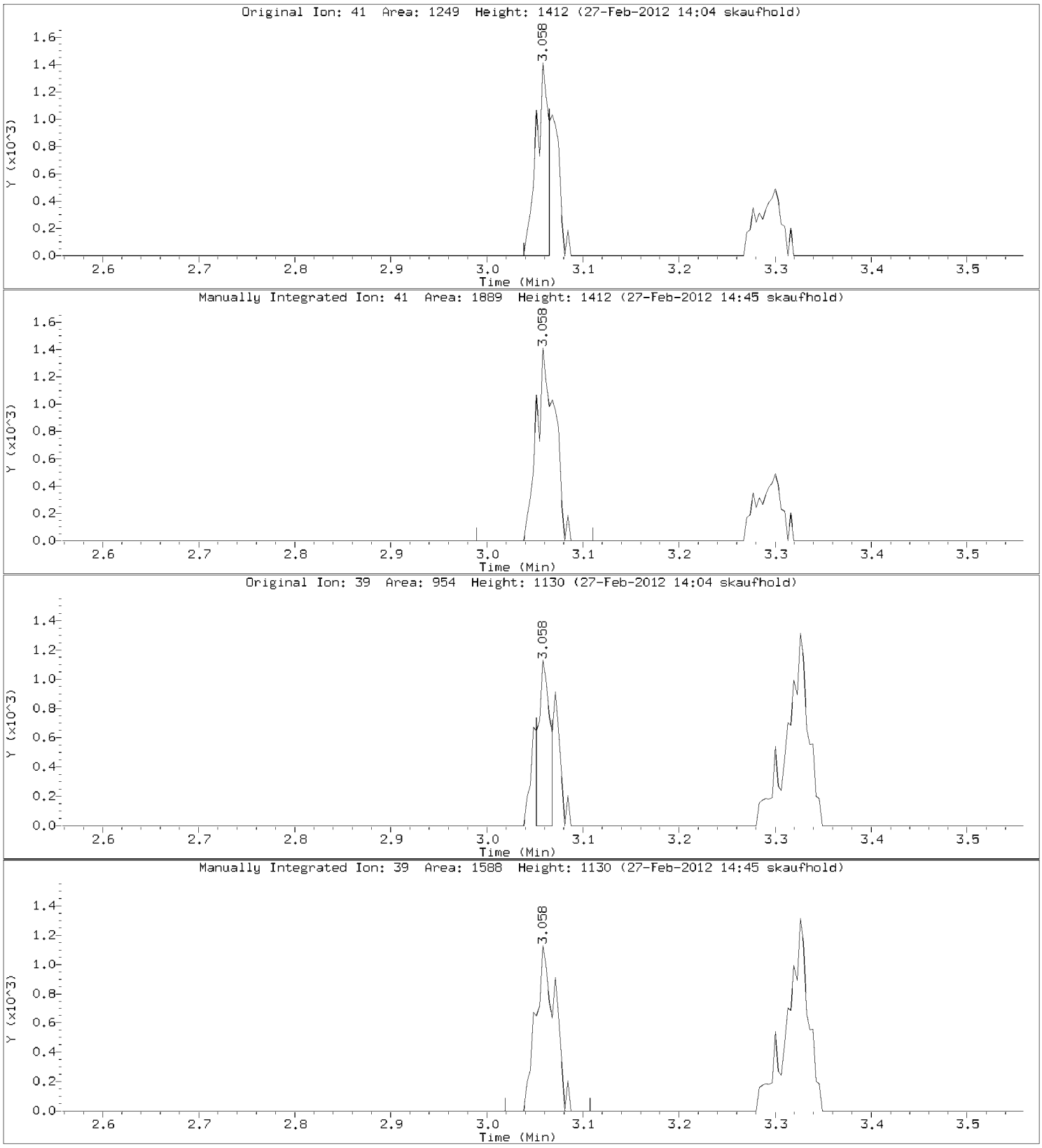
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.25	-0.11
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
-Dichlorodifluoromethane+
-Vinyl Chloride+
-Bromomethane+
-Ethanol+
-Acetone+
-Carbon Disulfide
-Methyl Ethyl Ketone+
-cis-1,2-Dichloroethene+
-Chloroform
-Tetrahydrofuran
-1,1,1-Trichloroethane+
-Benzene+
-2,2,4-Trimethylpentane
-Heptane
-Bromodichloromethane+
-Methyl Isobutyl Ketone+
-trans-1,3-Dichloropropene
-Toluene+
-Methyl Butyl Ketone
-Dibromochloromethane
-1,2-Dibromoethane
-Tetrachloroethene
-Ethyl Benzene
-m&p-Xylene
-2-Heptanone
-Bromoform+
-o-Xylene
-1,1,2,2-Tetrachloroethane
-N-Propylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene+
-1,2-Dichlorobenzene
-N-Butylbenzene
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene
-Hexane-d14(S)
1,4-Difluorobenzene
Toluene-d8 (S)
-Chlorobenzene - d5+
-Isopropylbenzene
-1,4-dichlorobenzene-d4 (S+
Min
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\\192.168.10.12\chem\10airD.i\022712.B\05805.D
Data File: \\192.168.10.12\chem\10airD.i\022712.B\05805.D
Date : 27-FEB-2012 12:18
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32

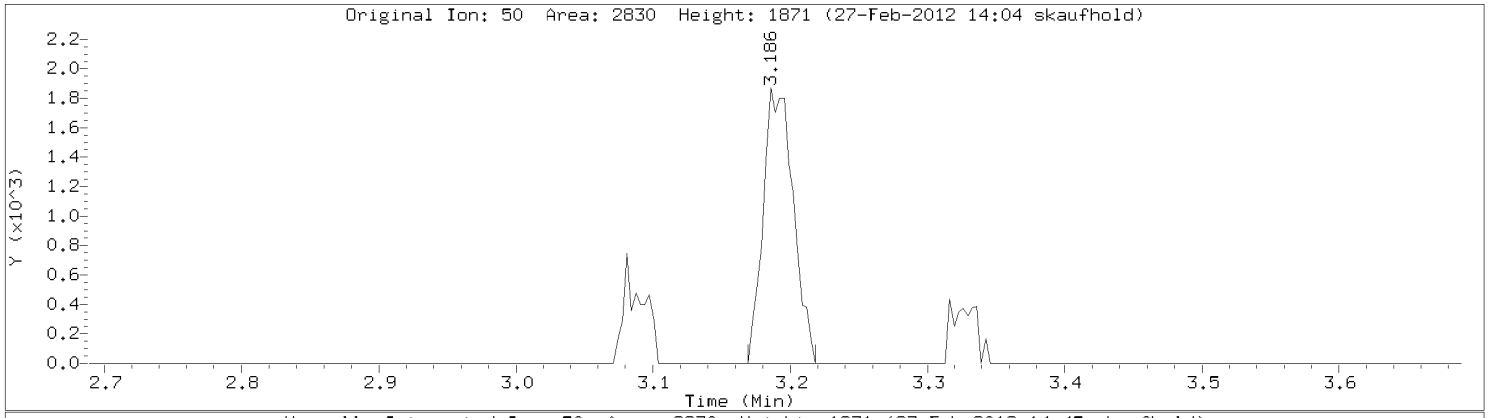
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

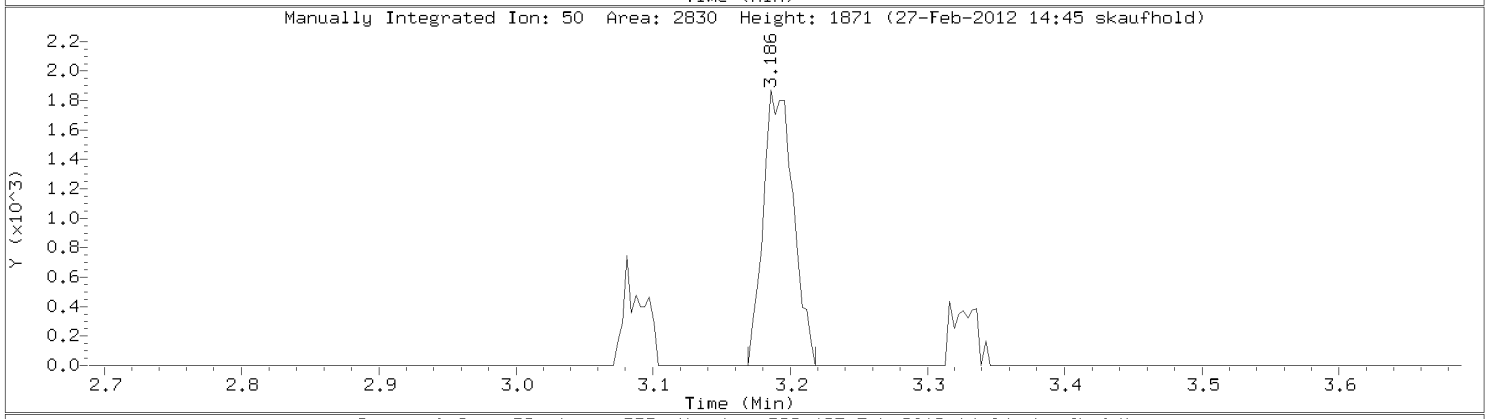
Compound: Propylene
CAS Number: 75-09-2

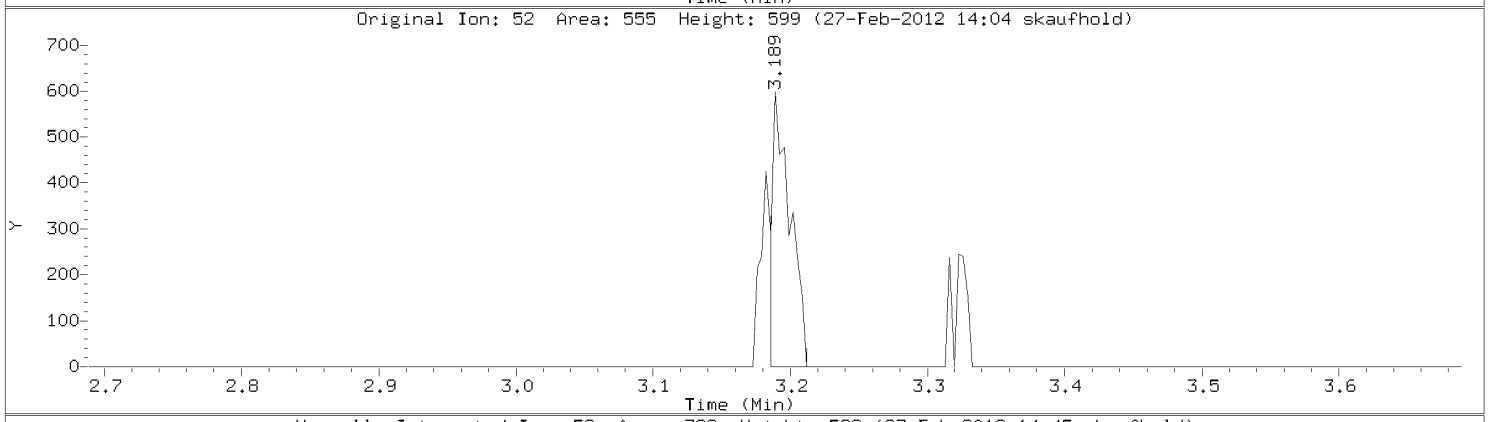


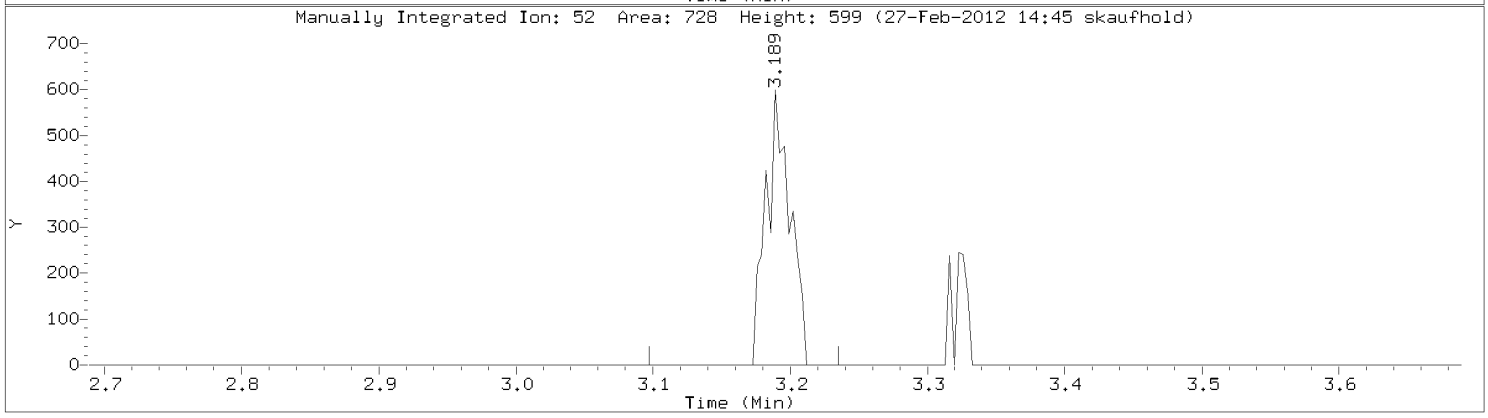
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Chloromethane
CAS Number: 74-87-3



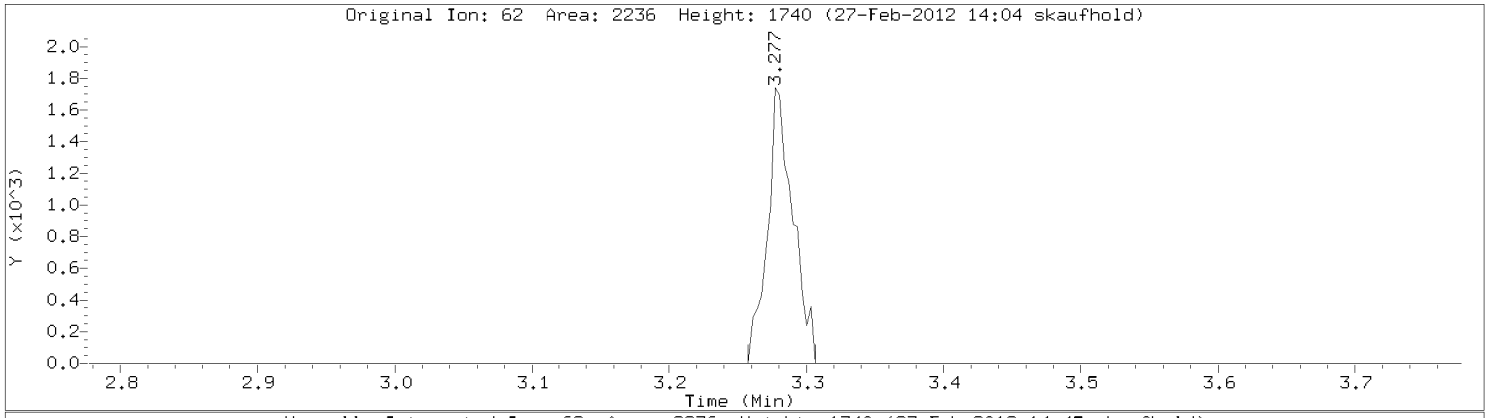


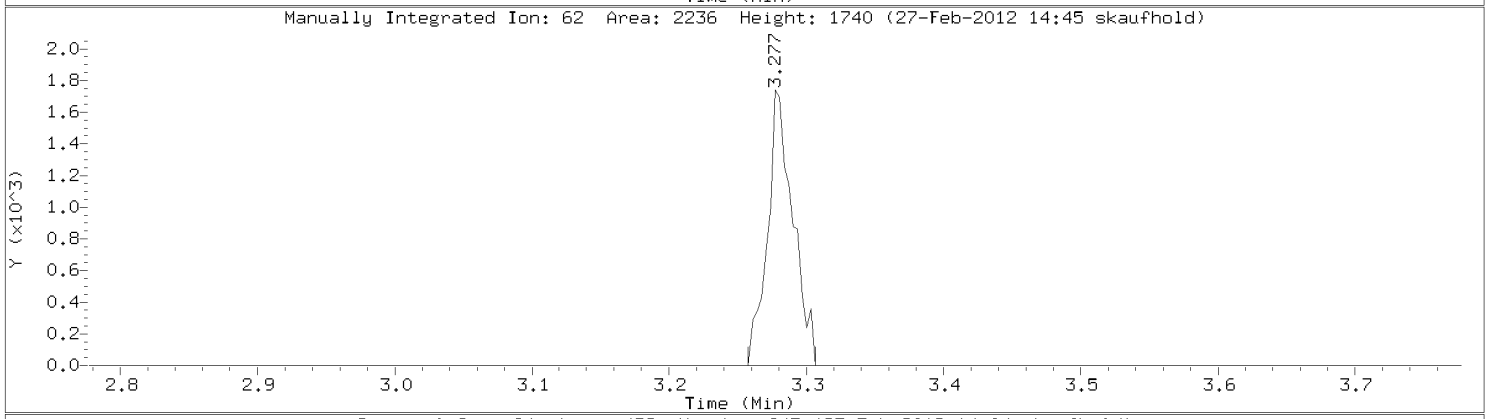


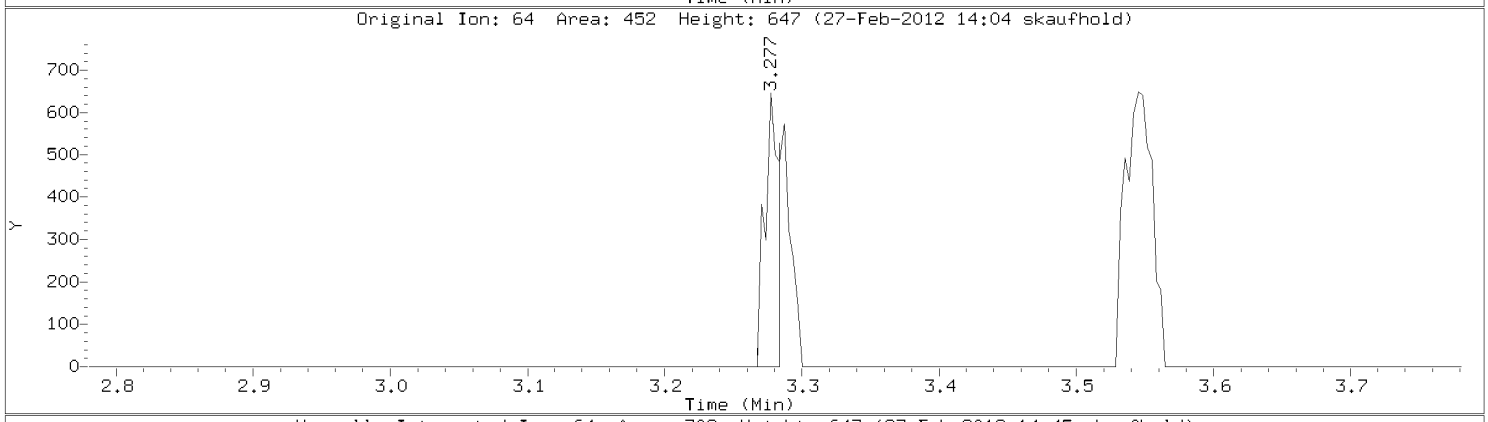


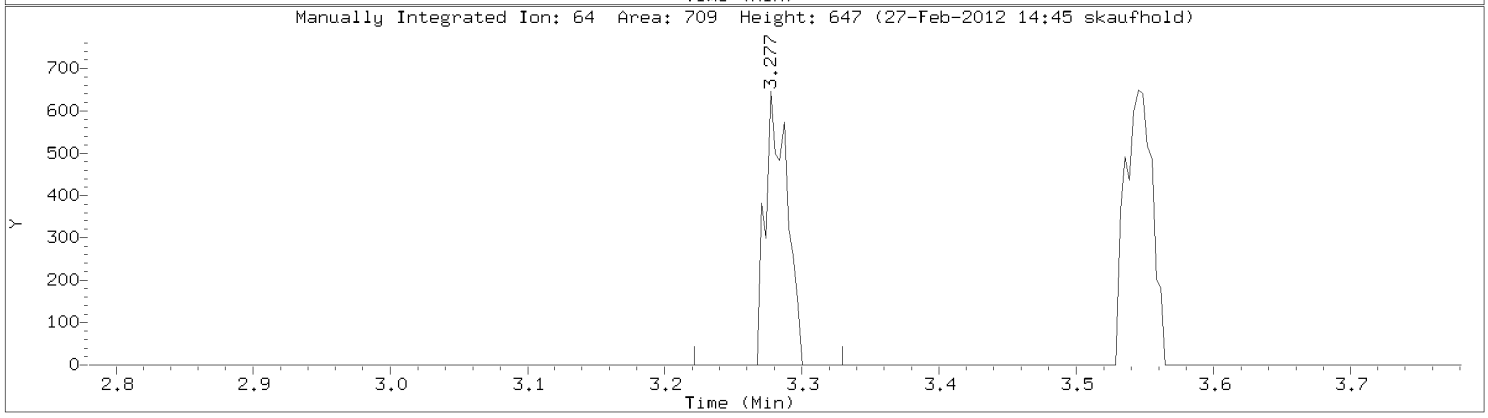
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Vinyl chloride
CAS Number: 75-01-4



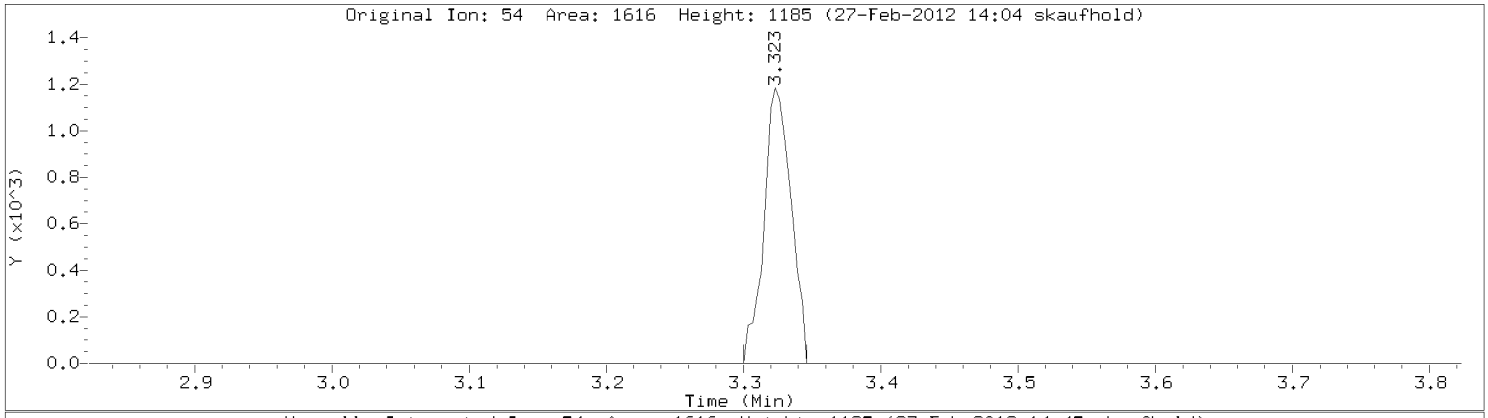


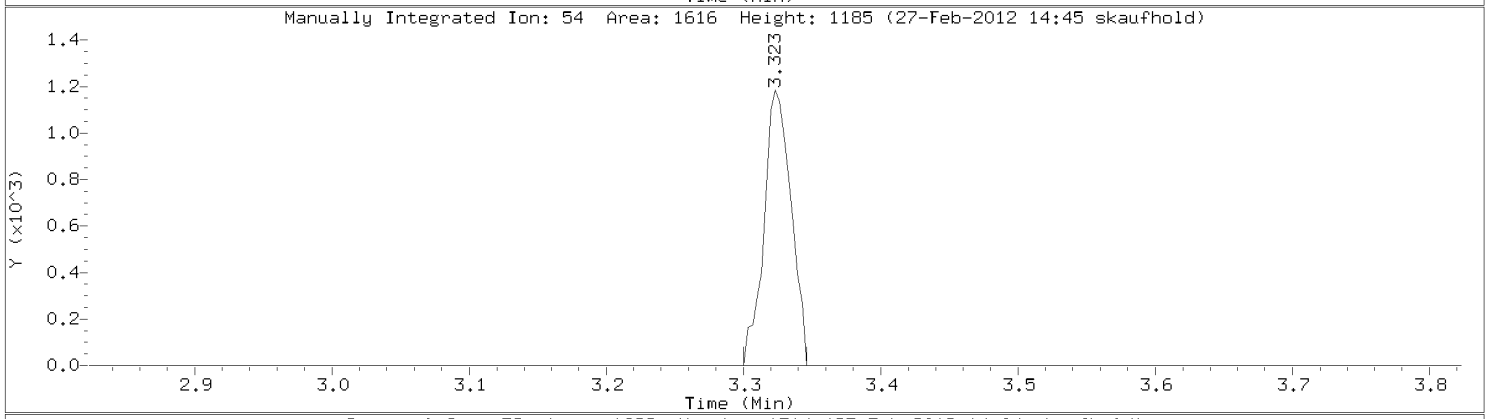


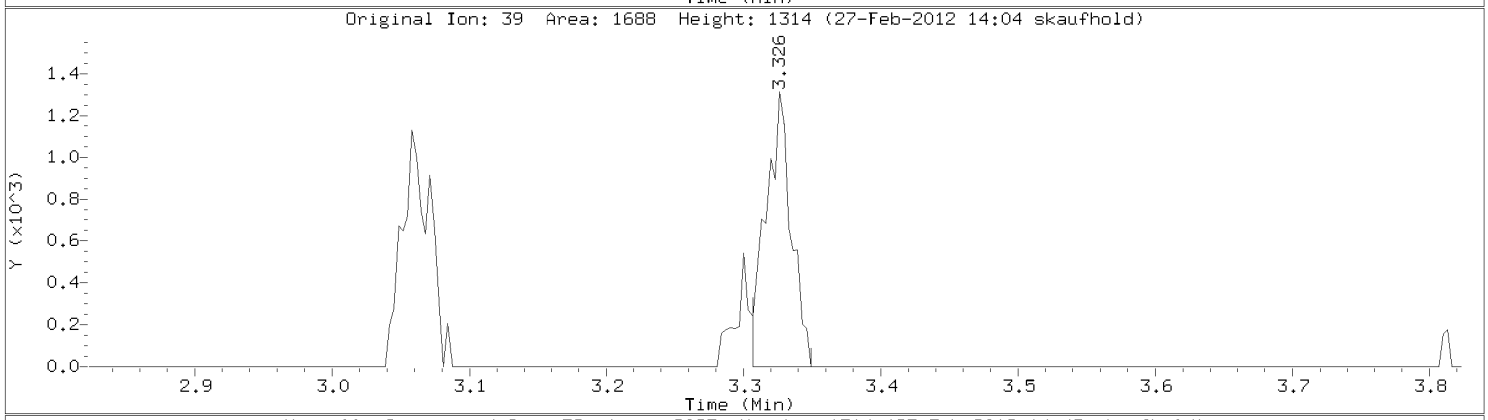


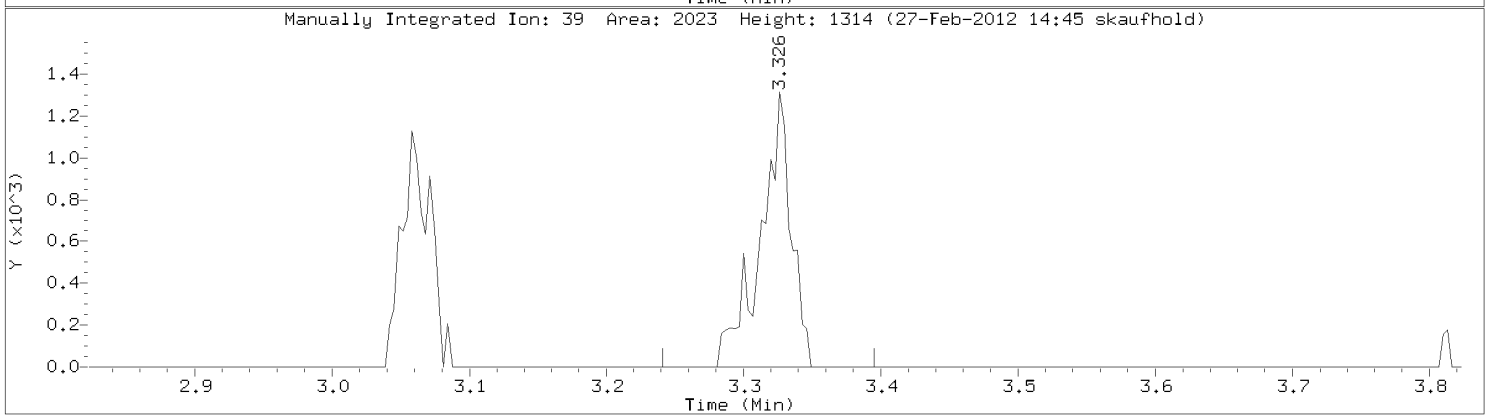
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,3-Butadiene
CAS Number: 106-99-0



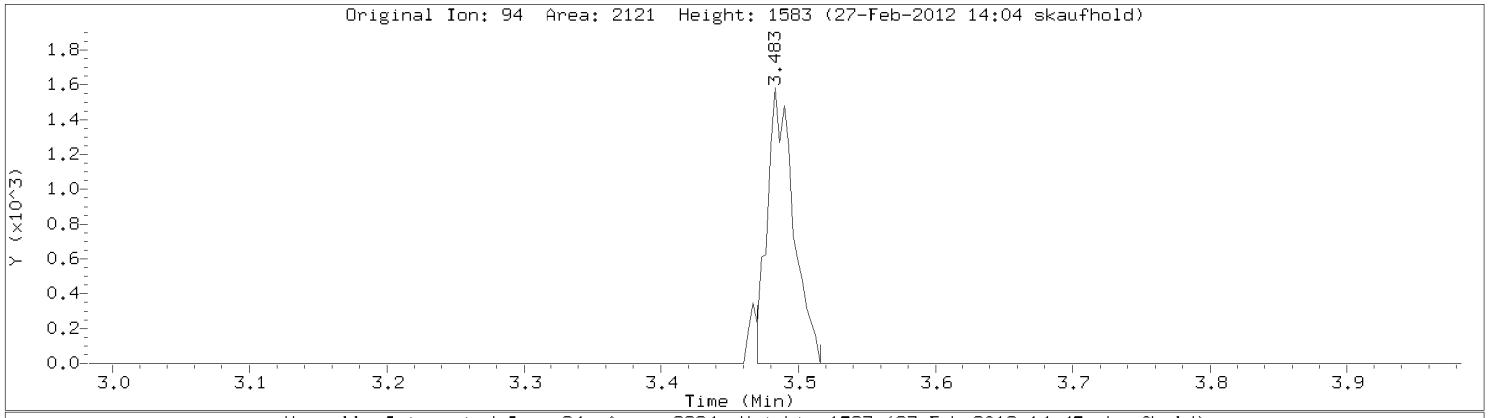


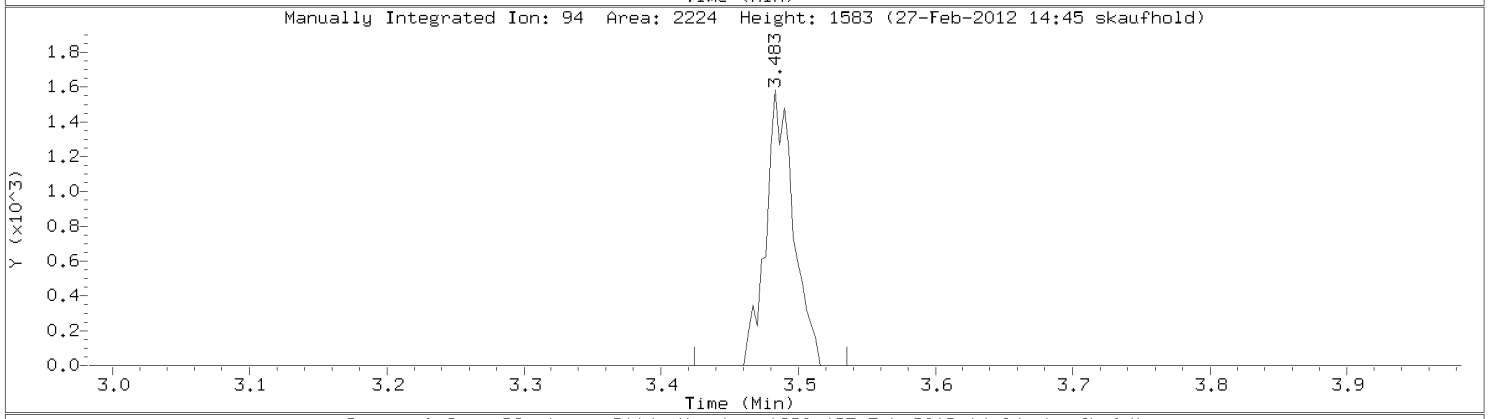


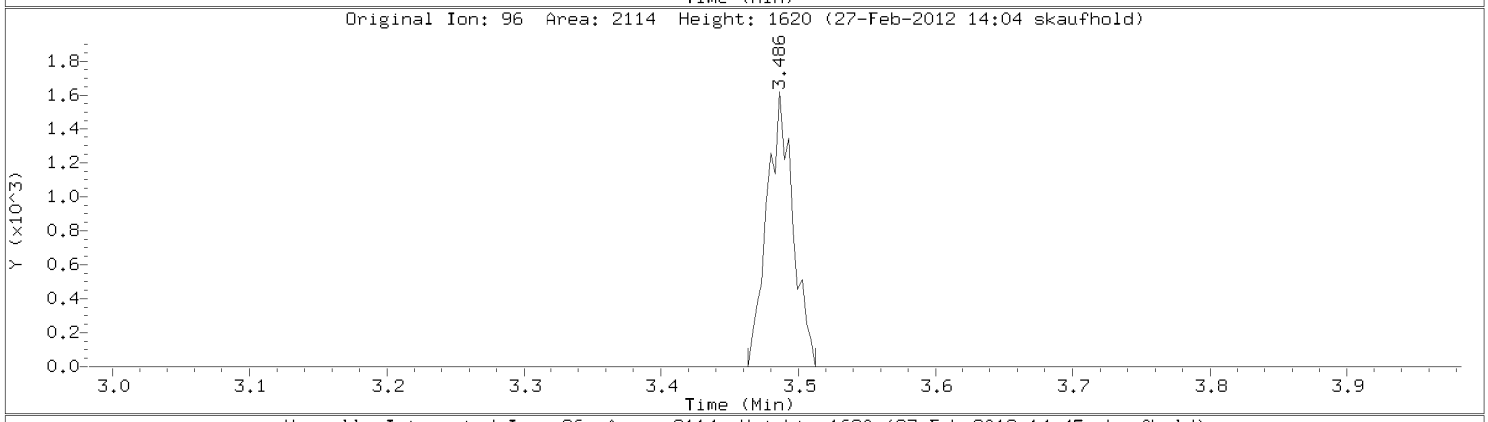


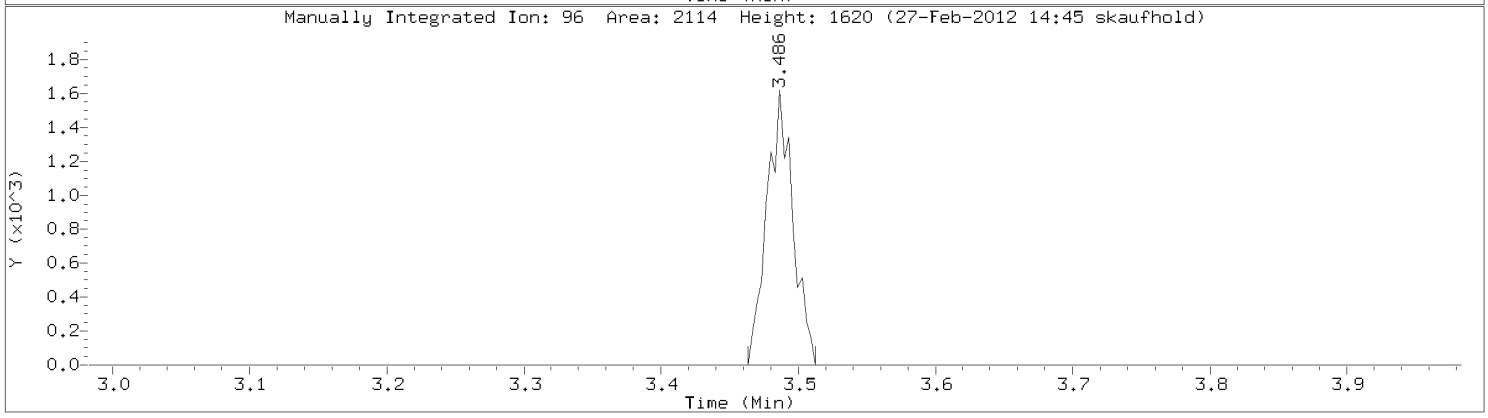
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Bromomethane
CAS Number: 74-83-9



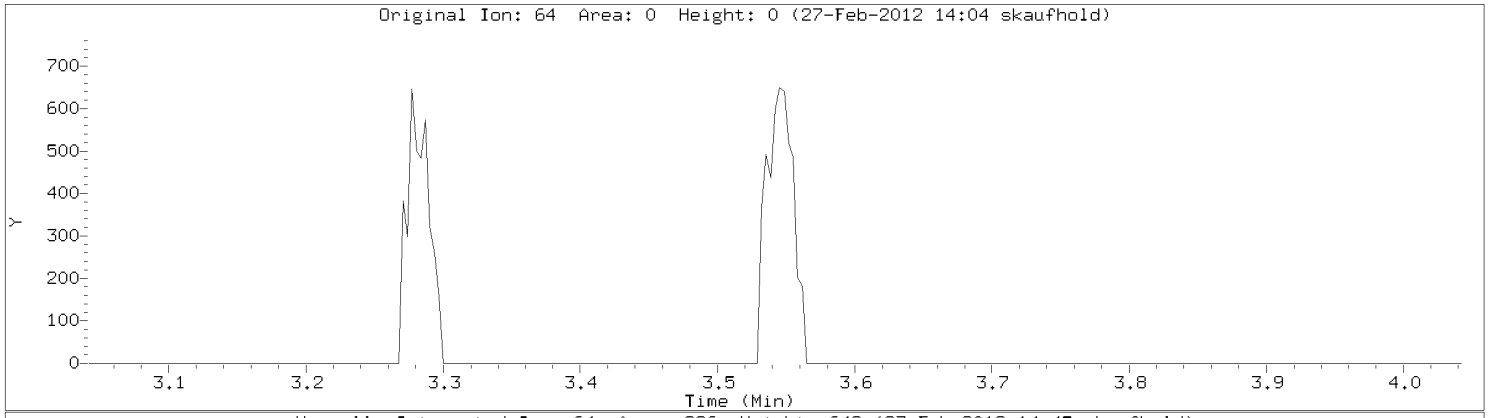


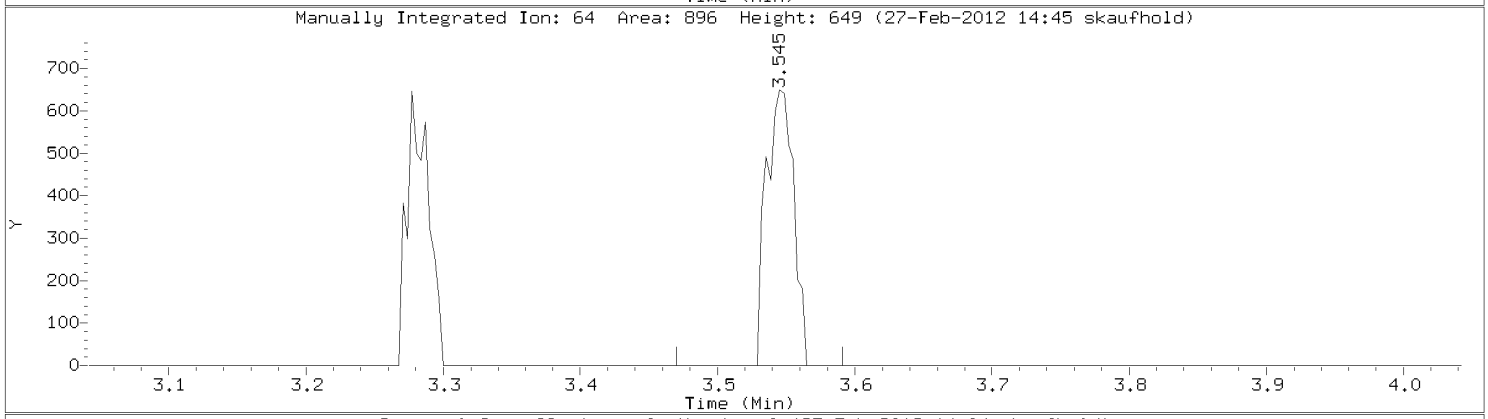


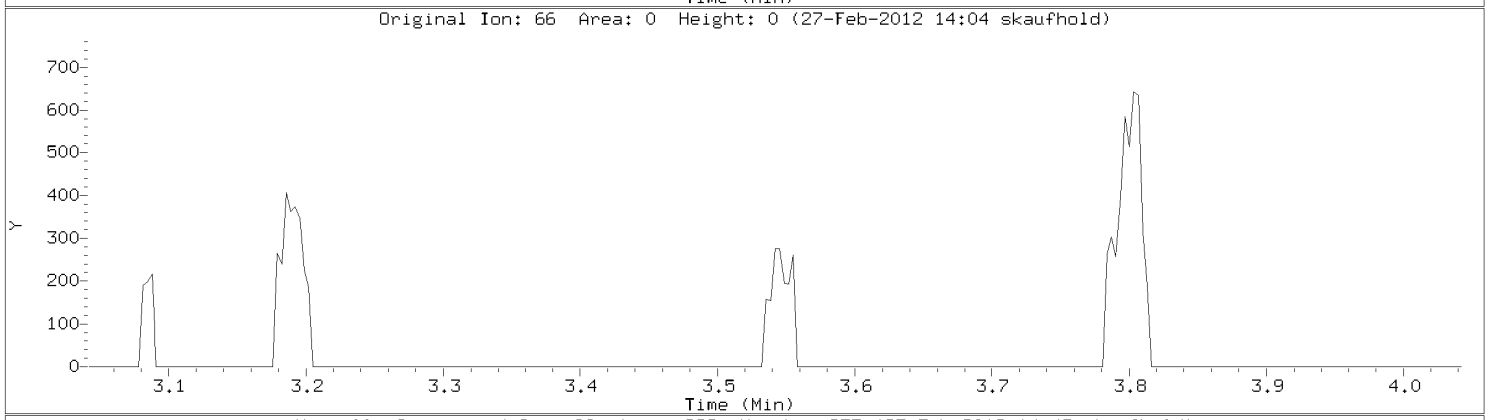


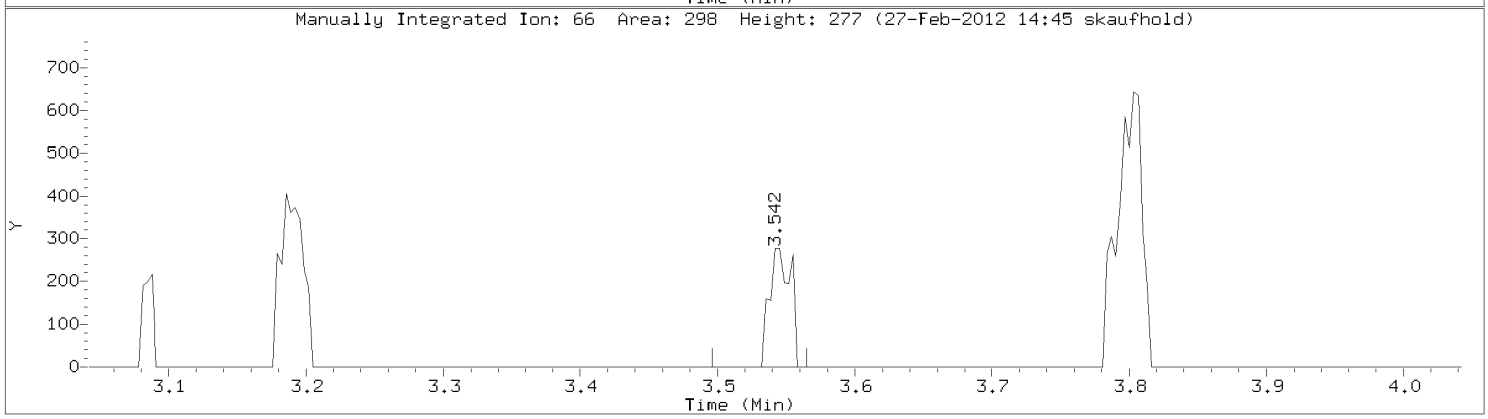
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Chloroethane
CAS Number: 75-00-3



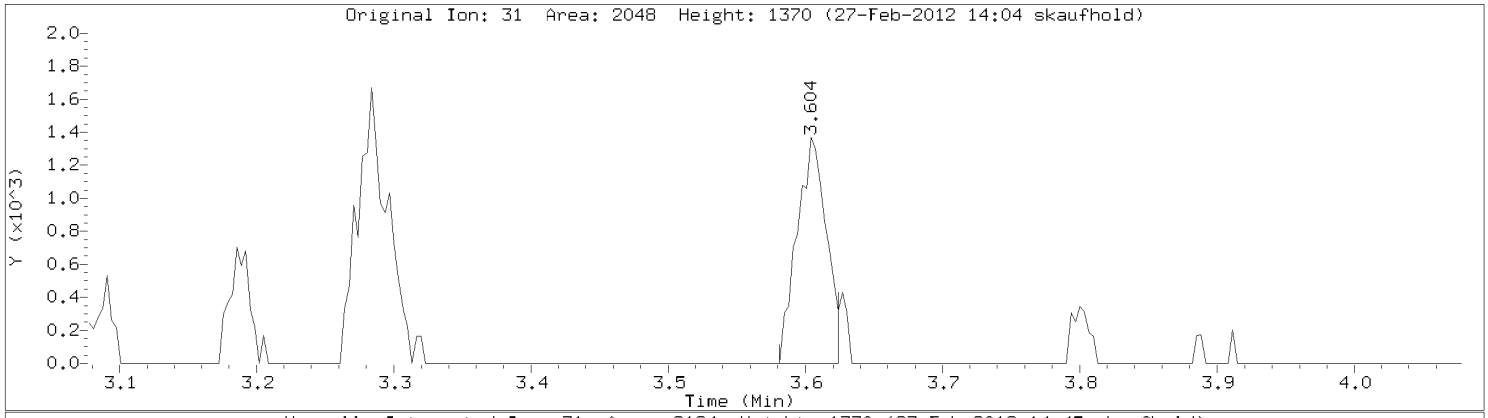


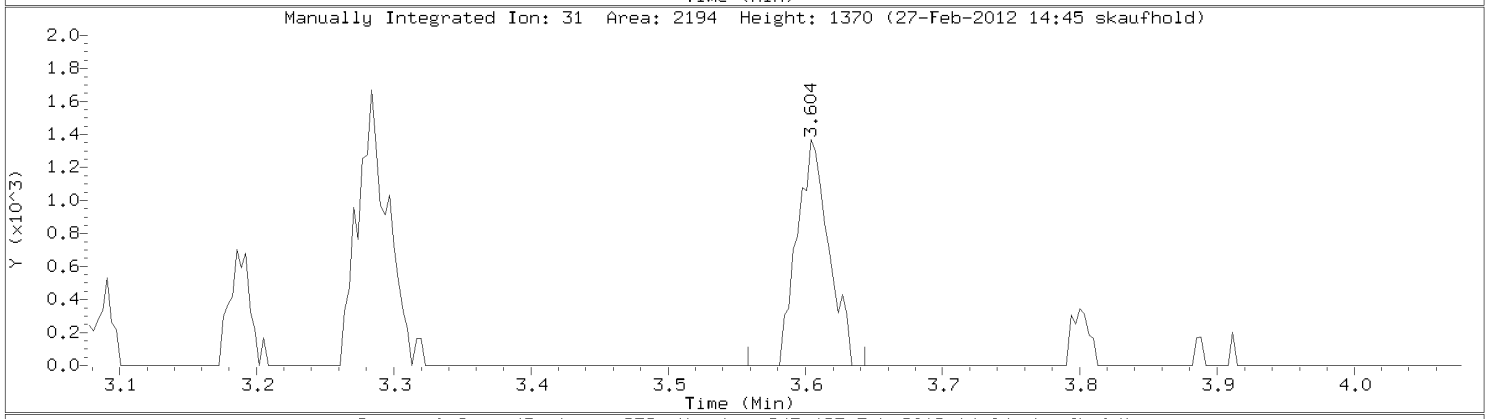


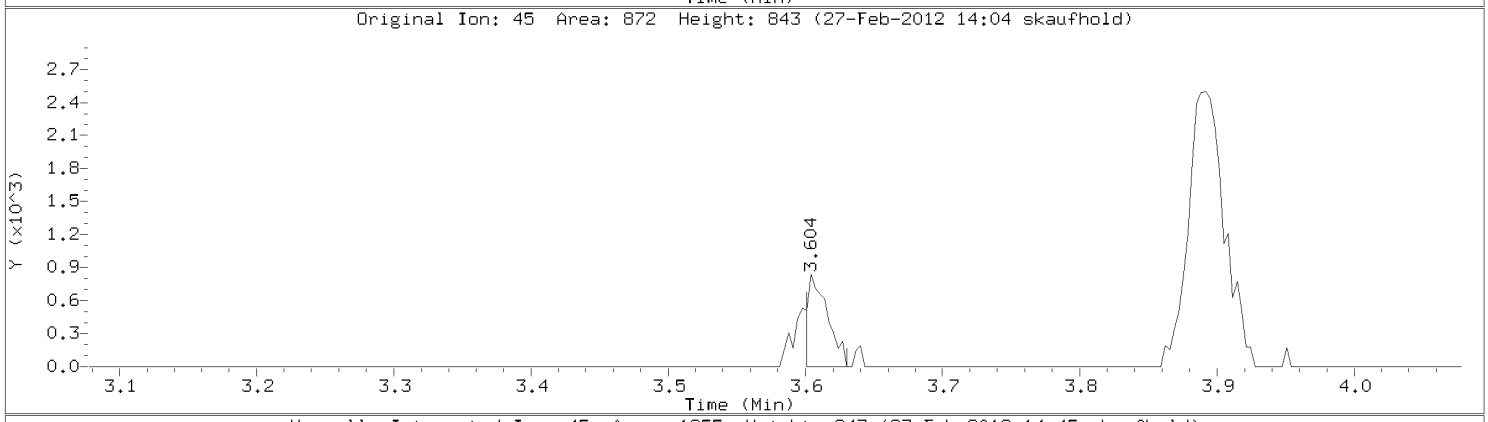


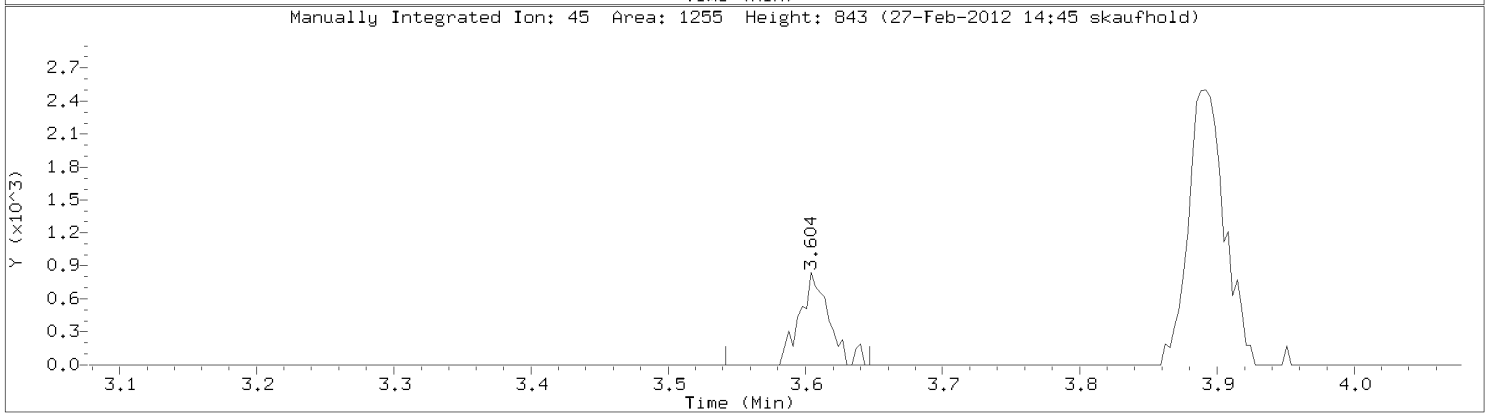
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Ethanol
CAS Number: 64-17-5



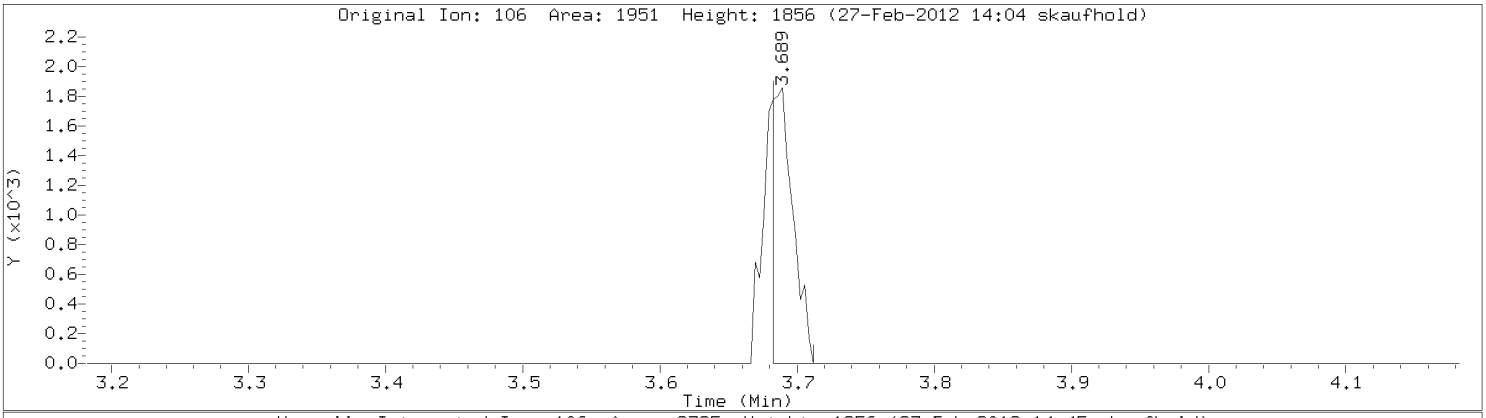


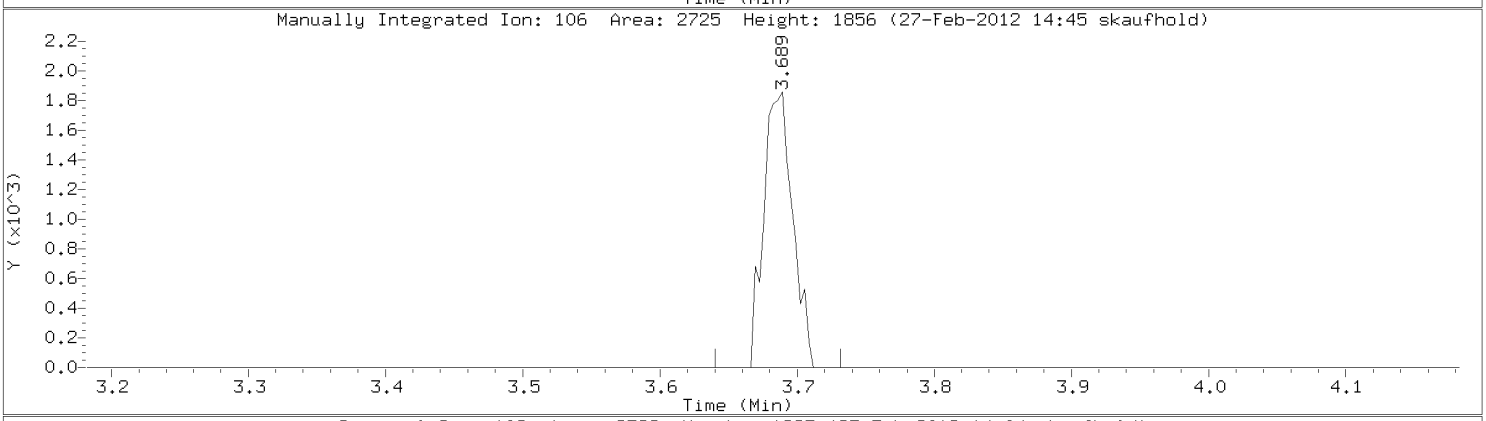


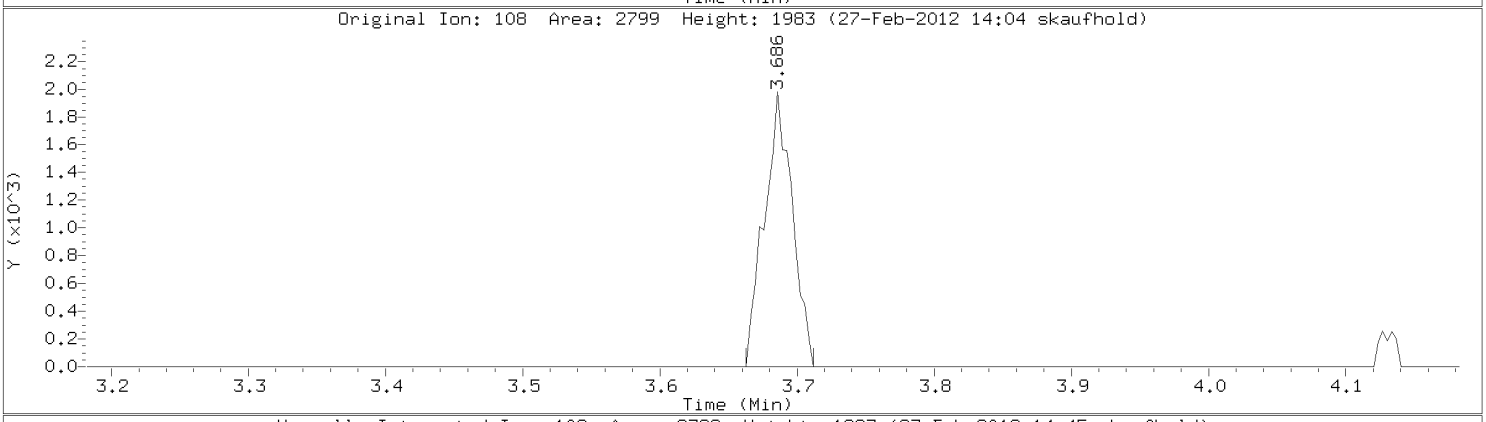


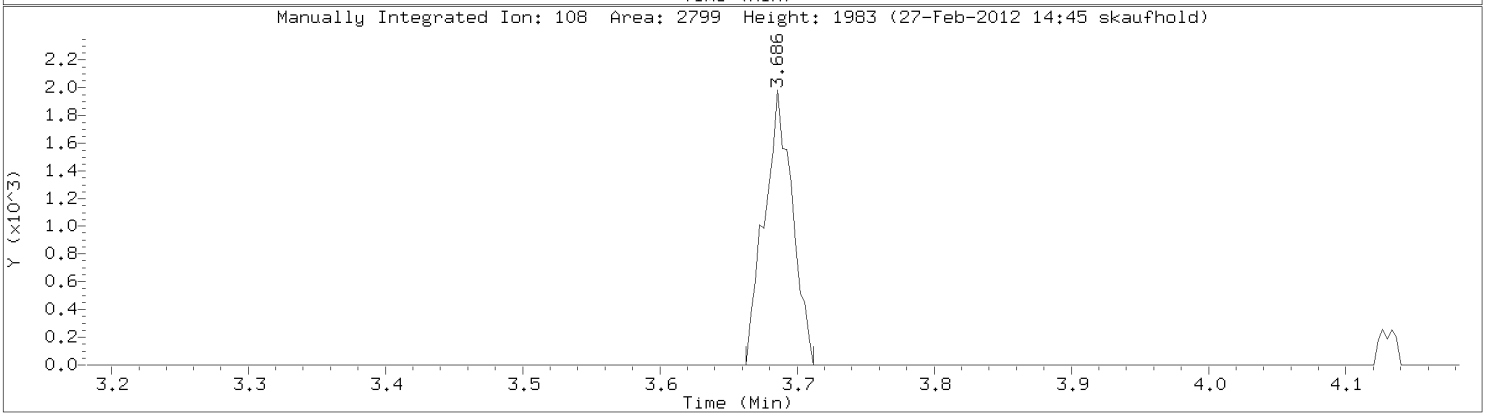
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Vinyl Bromide
CAS Number: 593-60-2



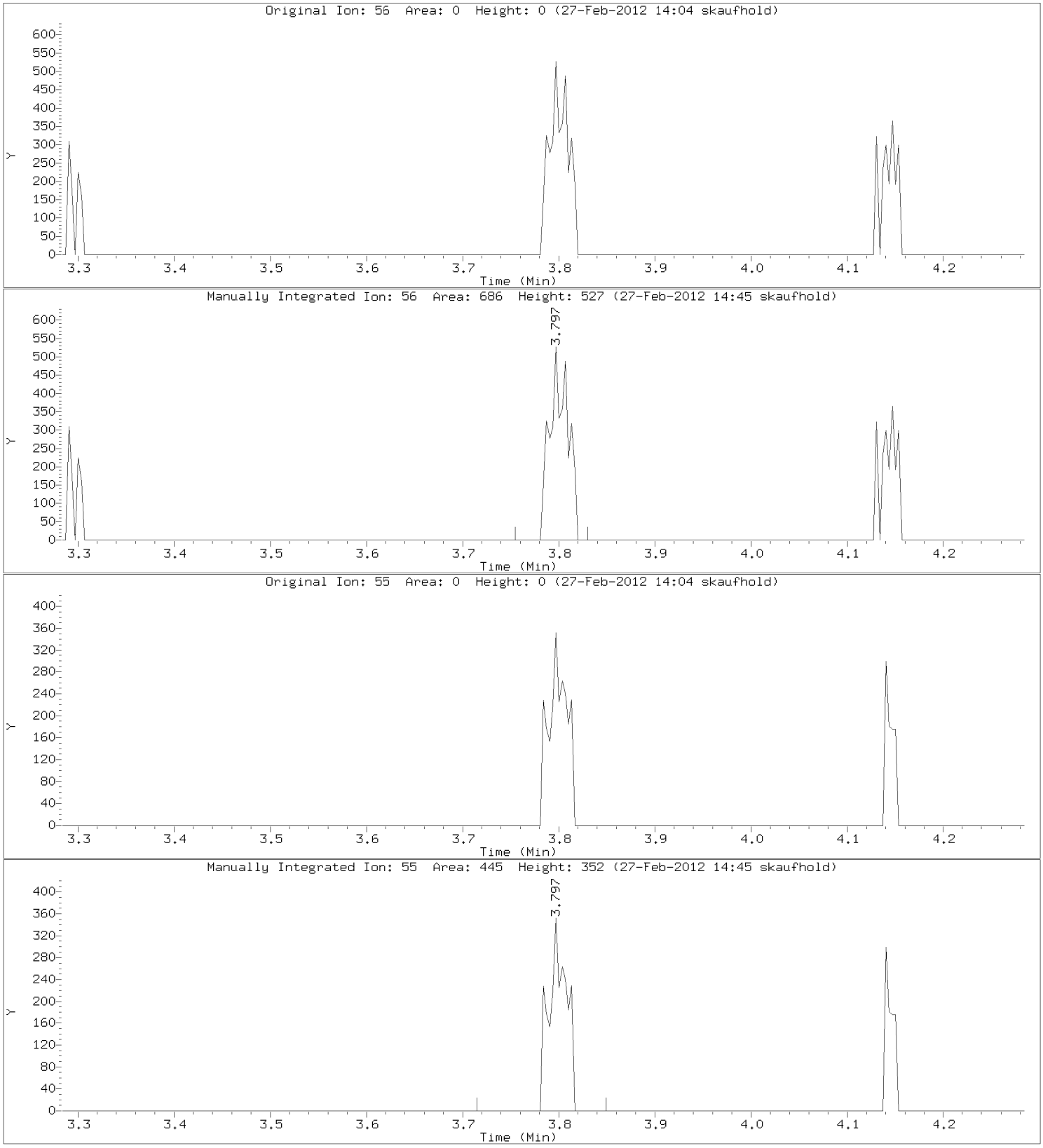






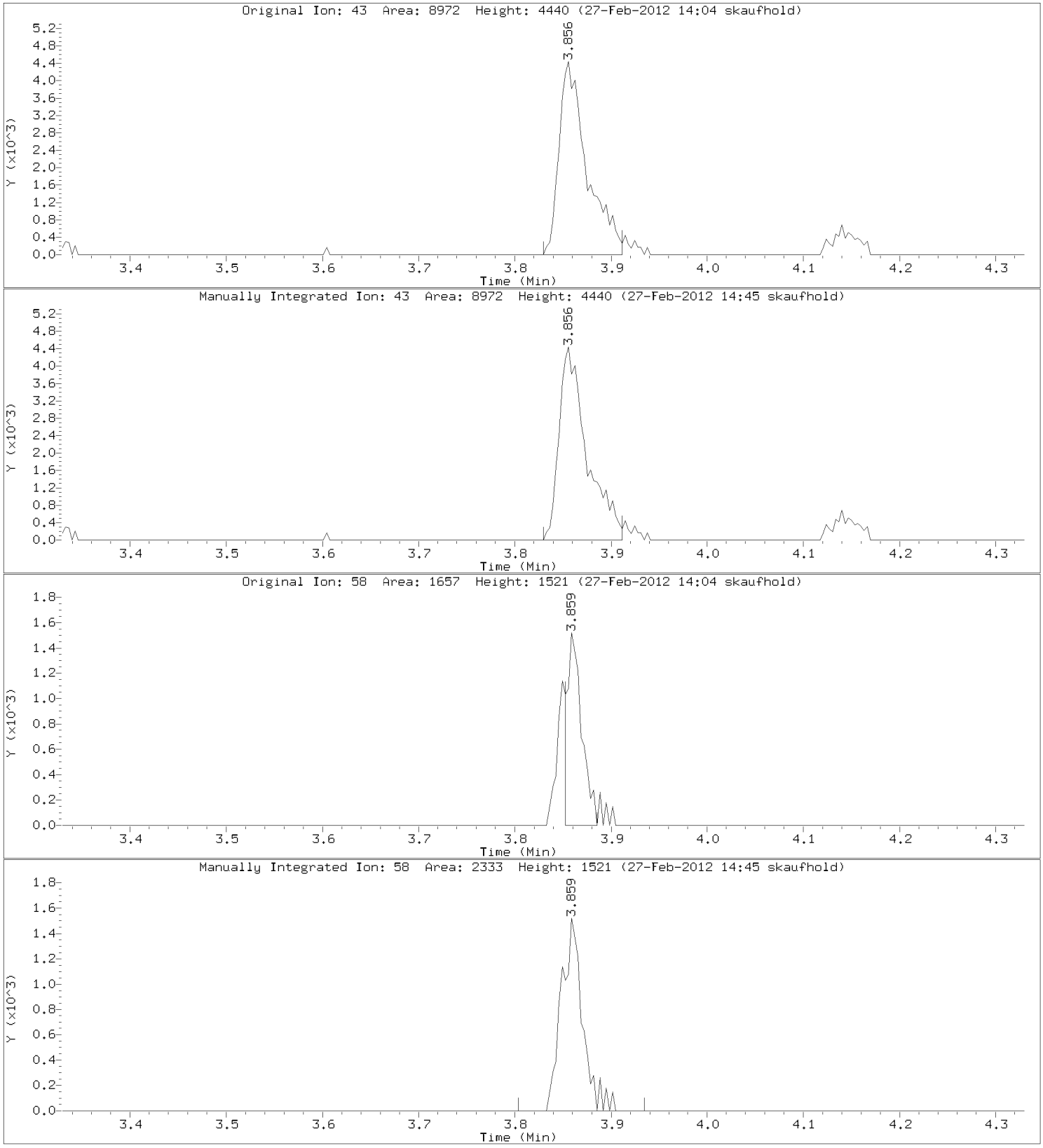
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Acrolein
CAS Number: 107-02-08



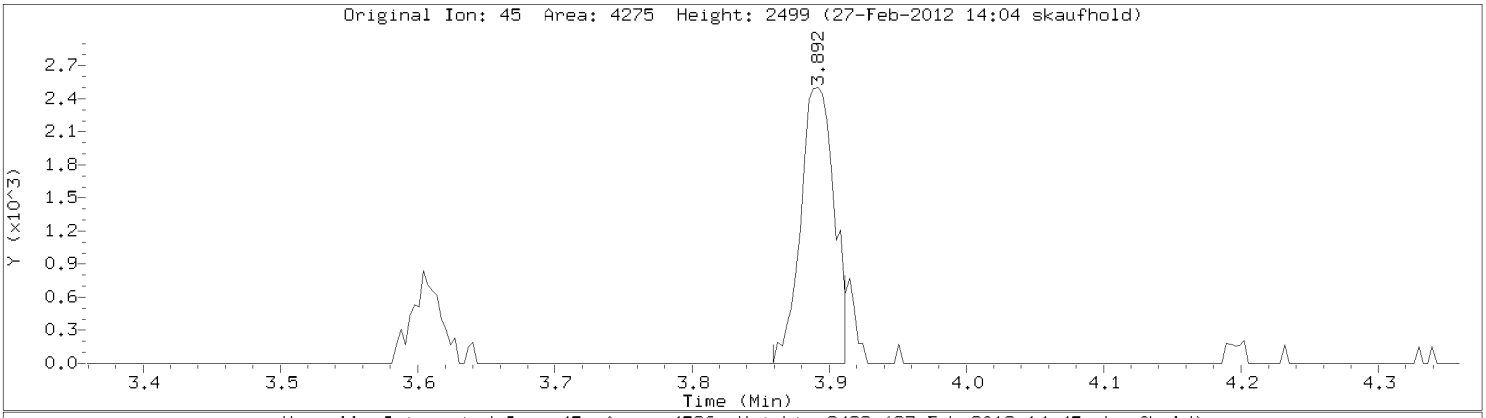
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Lab Sample ID: ICAL 1

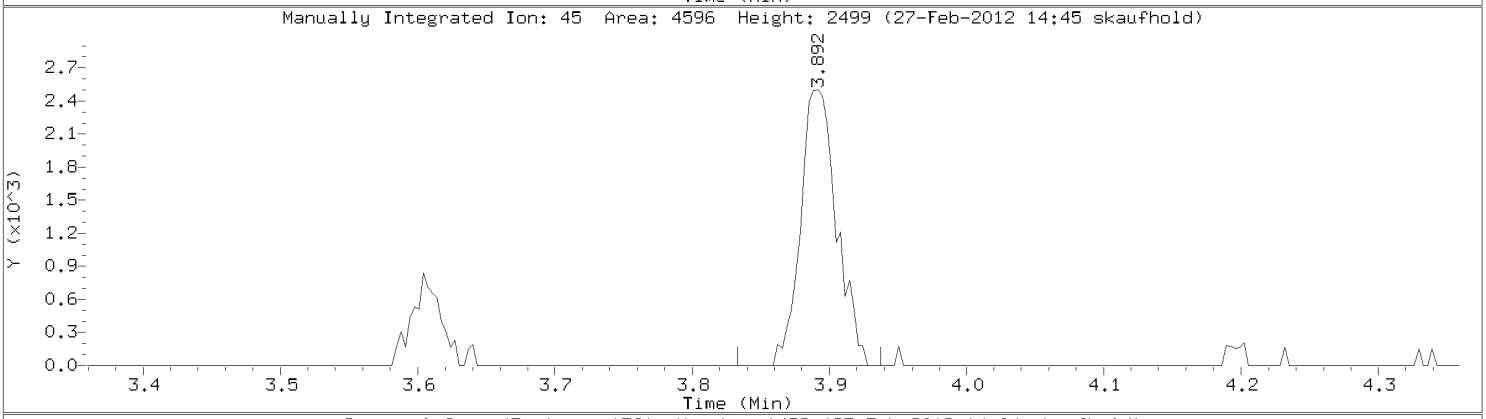
Compound: Acetone
CAS Number: 67-64-1

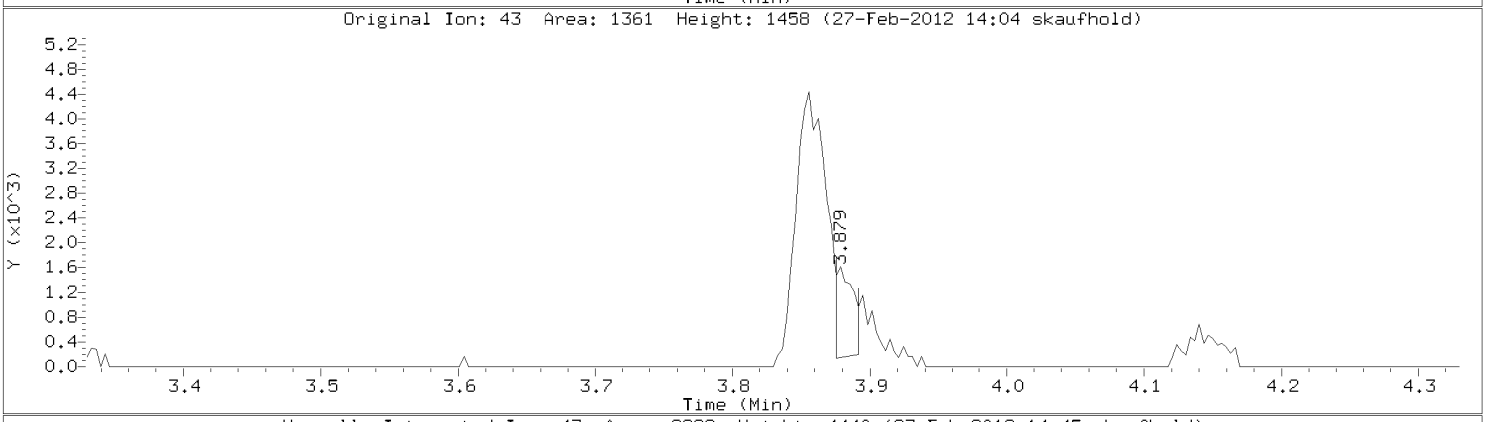


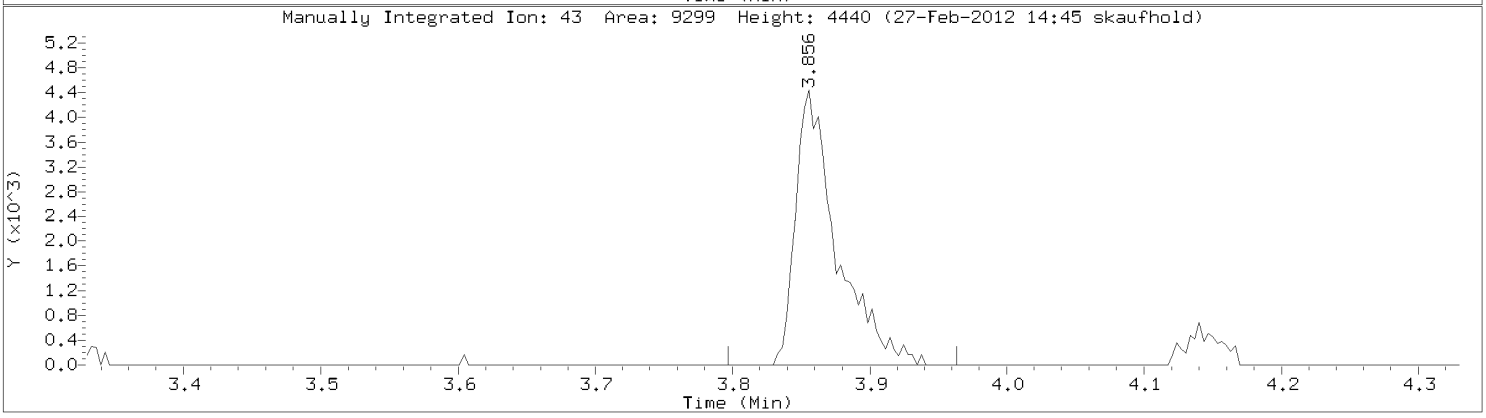
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



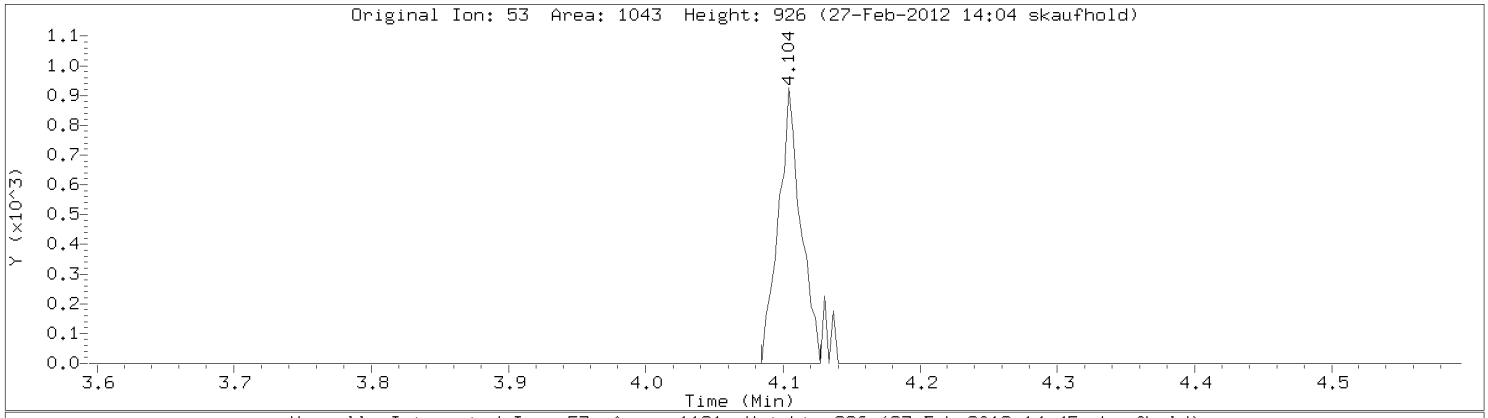


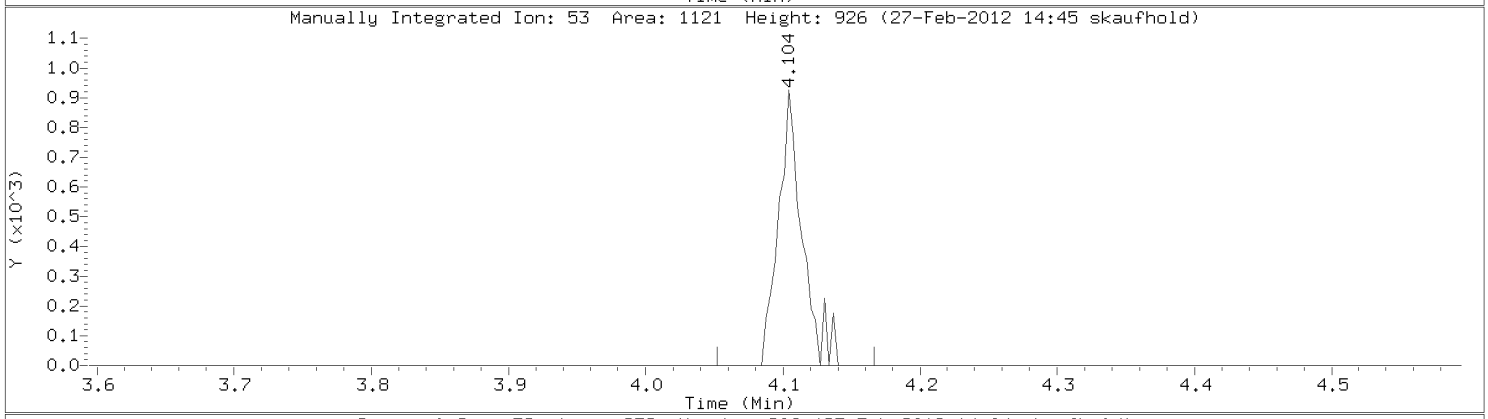


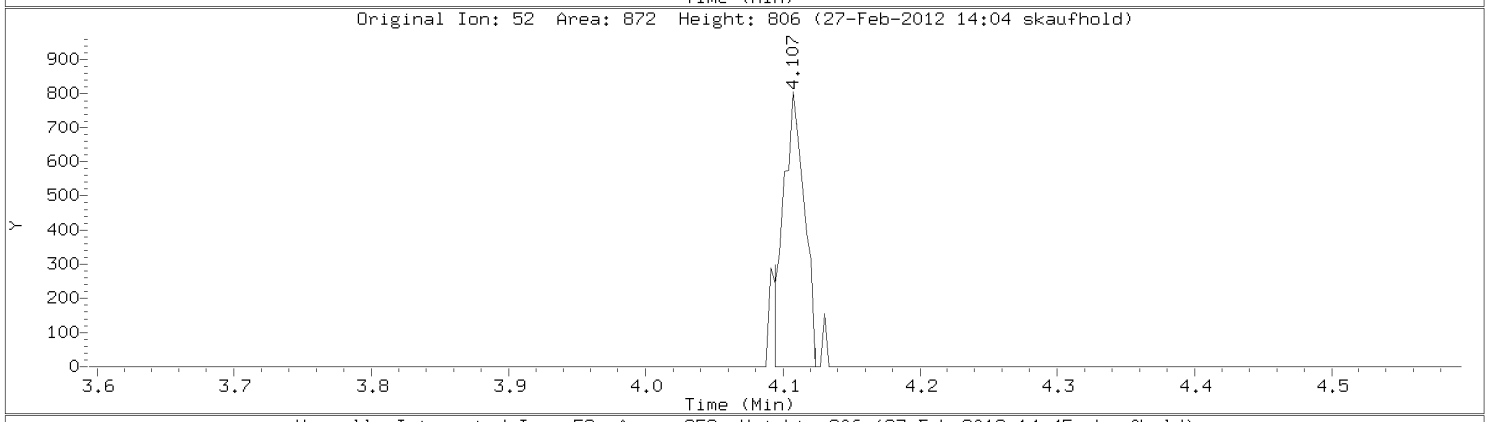


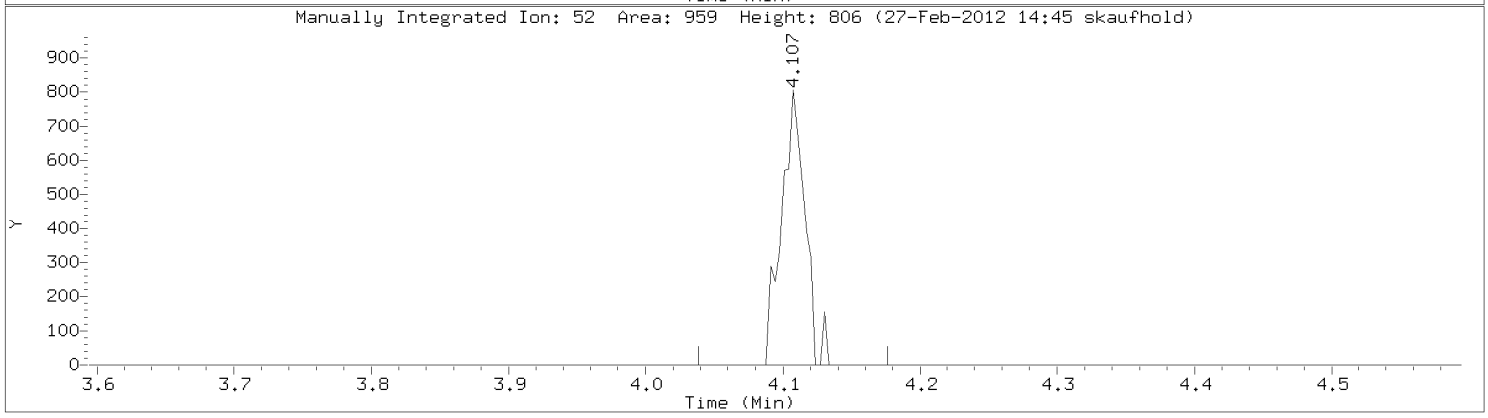
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Acrylonitrile
CAS Number: 107-13-1



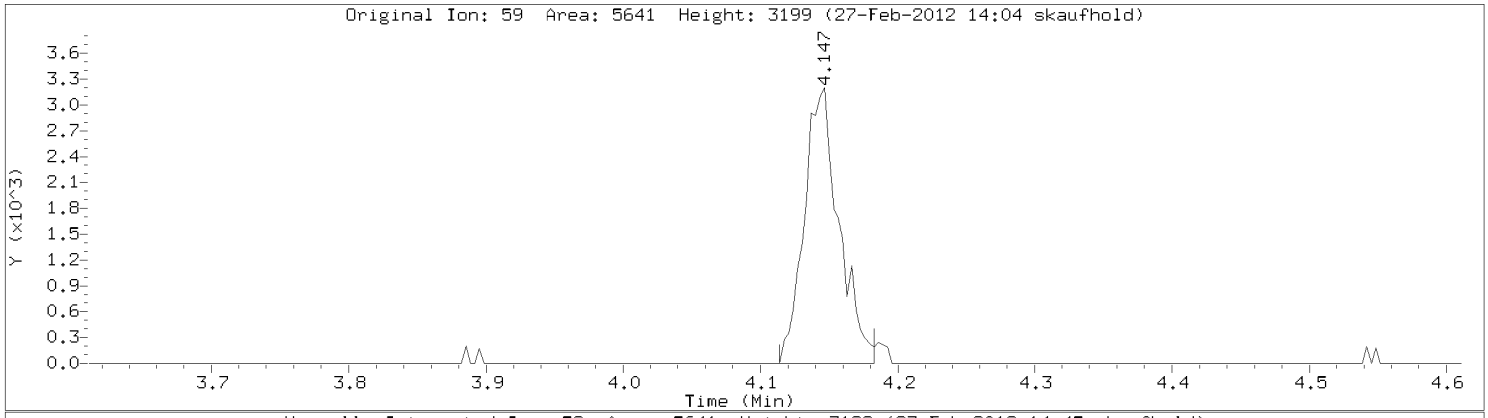


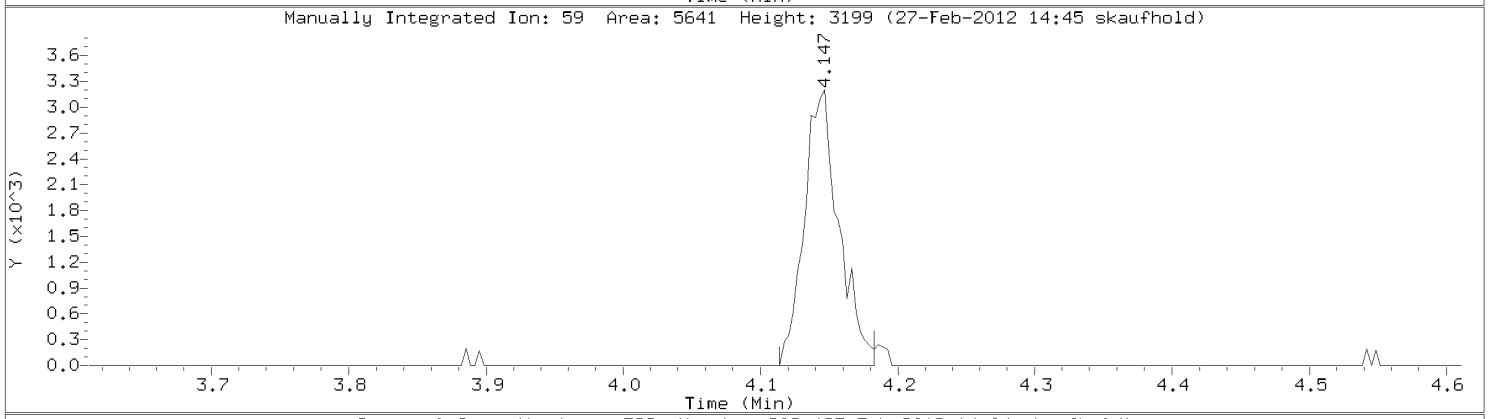


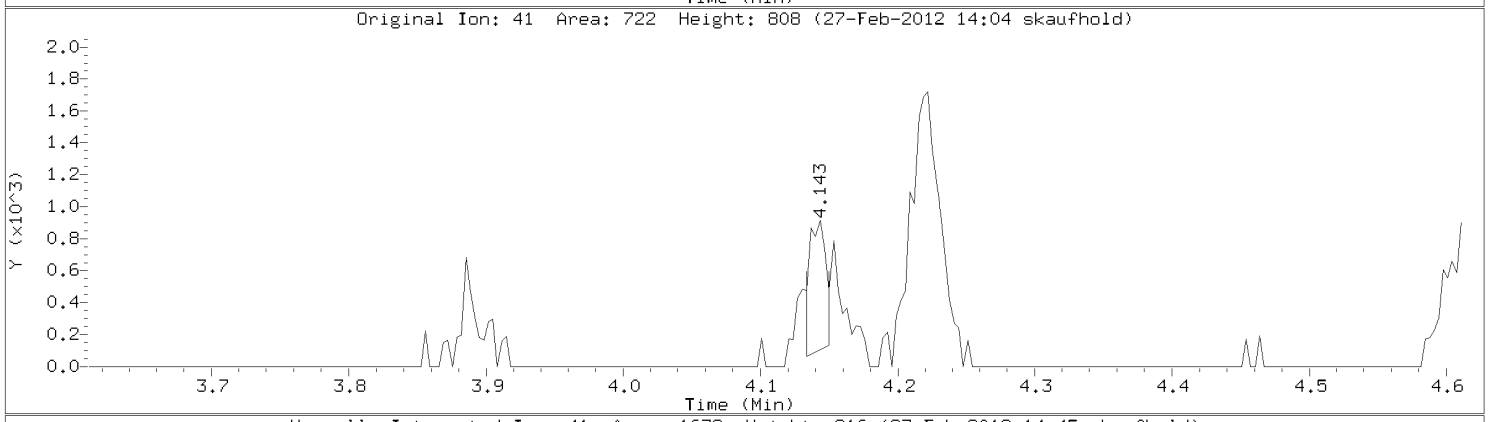


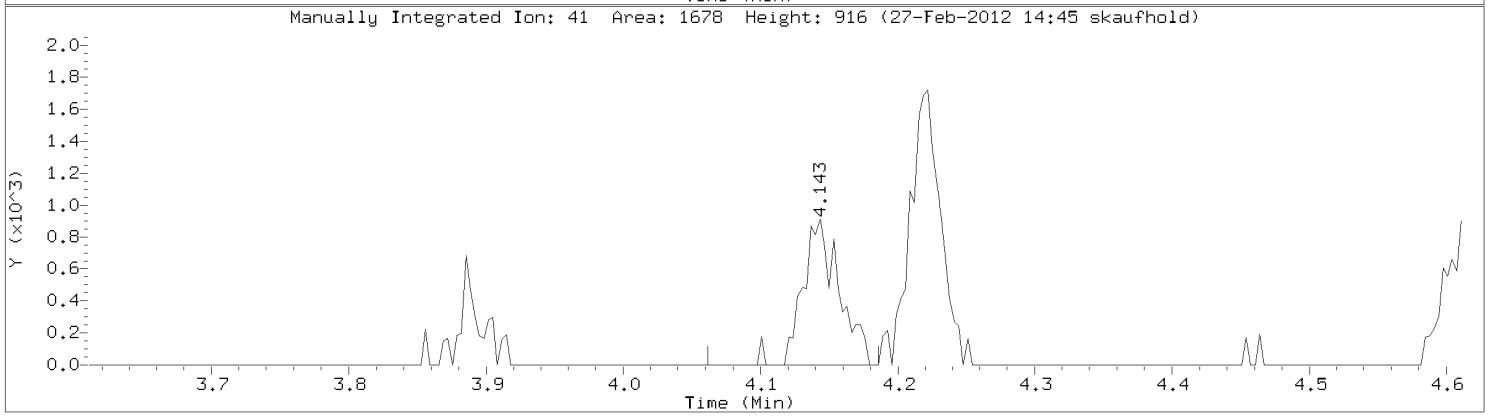
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05805.D
Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



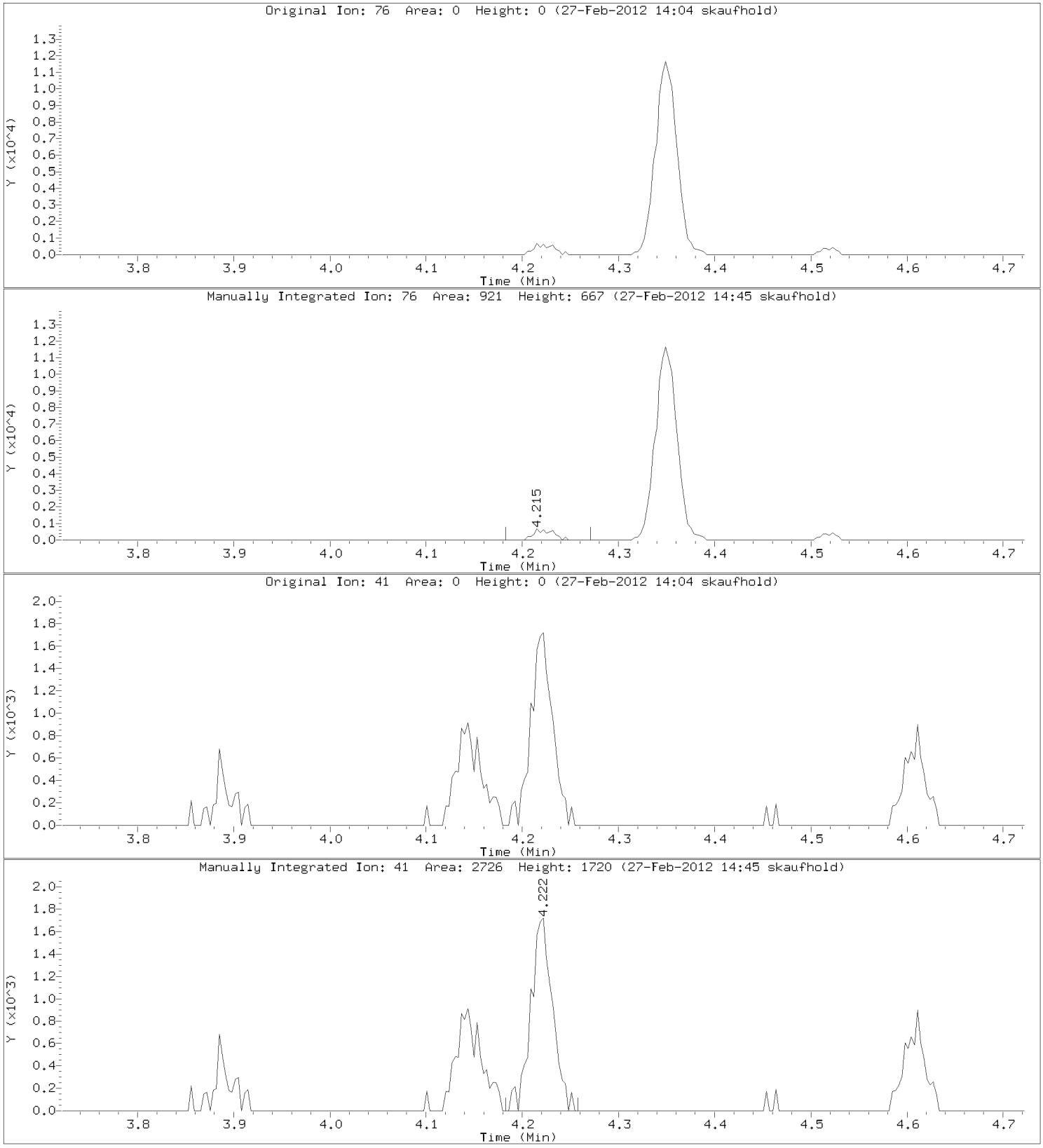




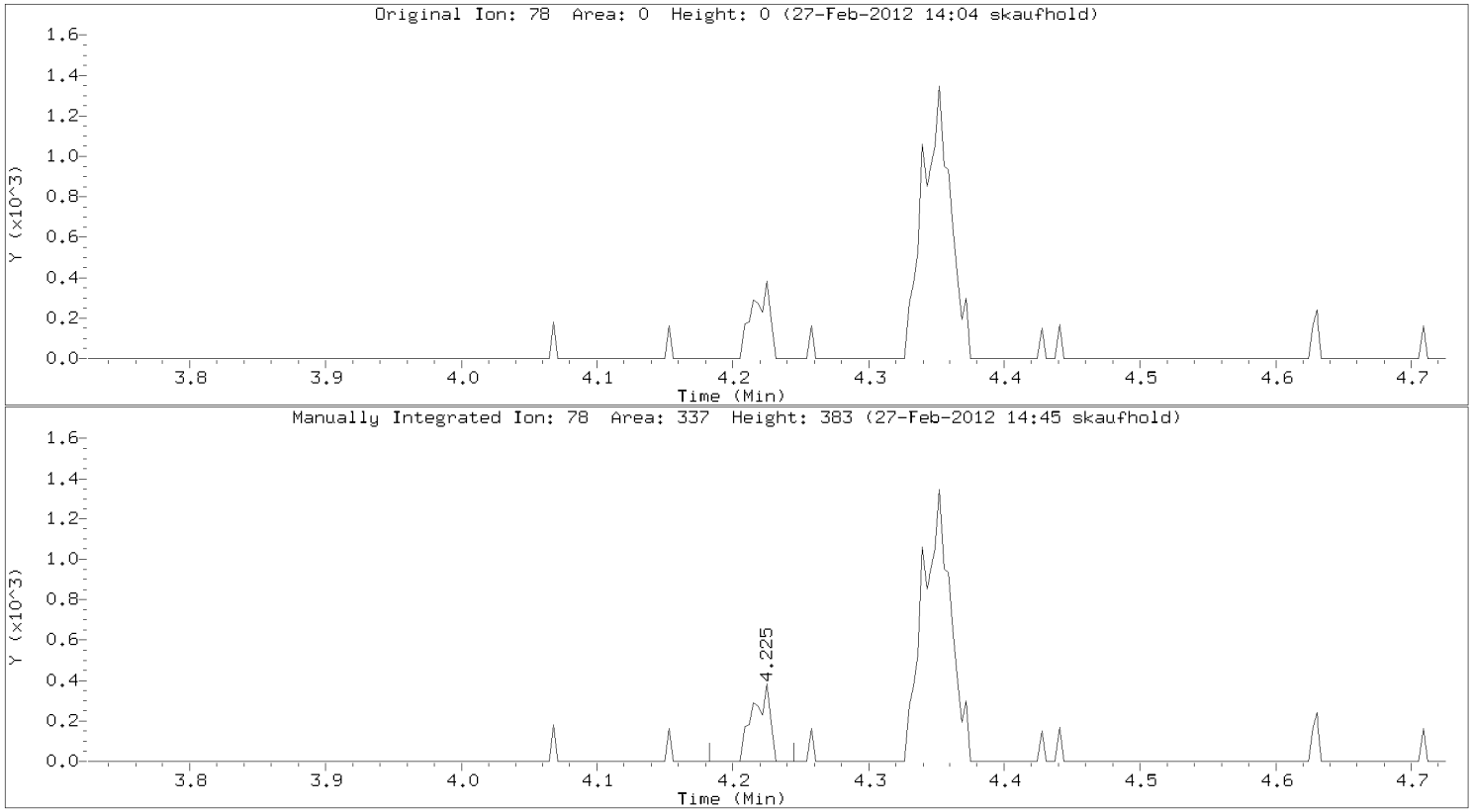


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05805.D
Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Allyl Chloride
CAS Number: 107-05-1

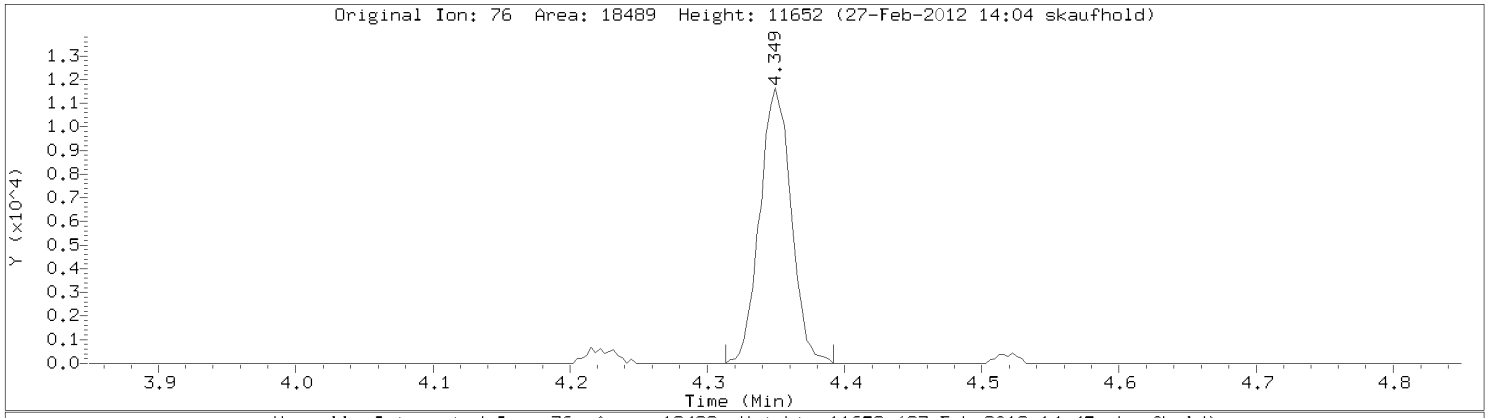


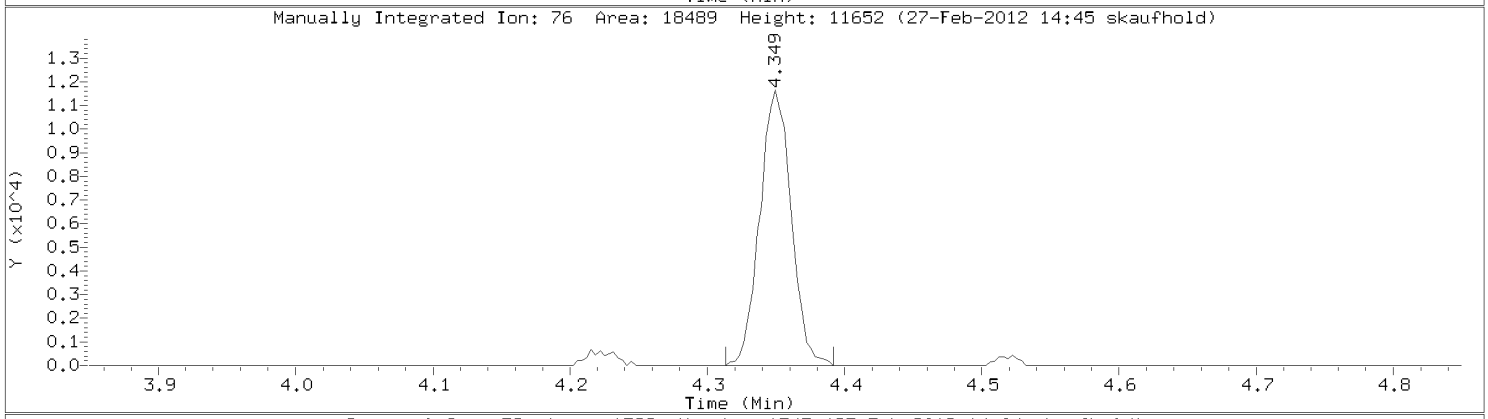
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

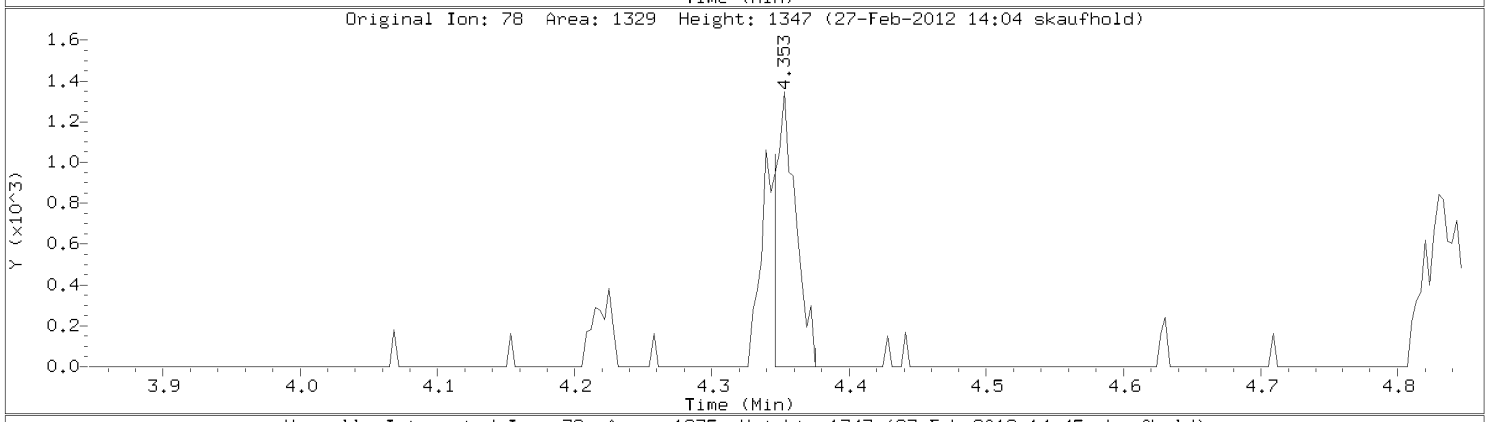


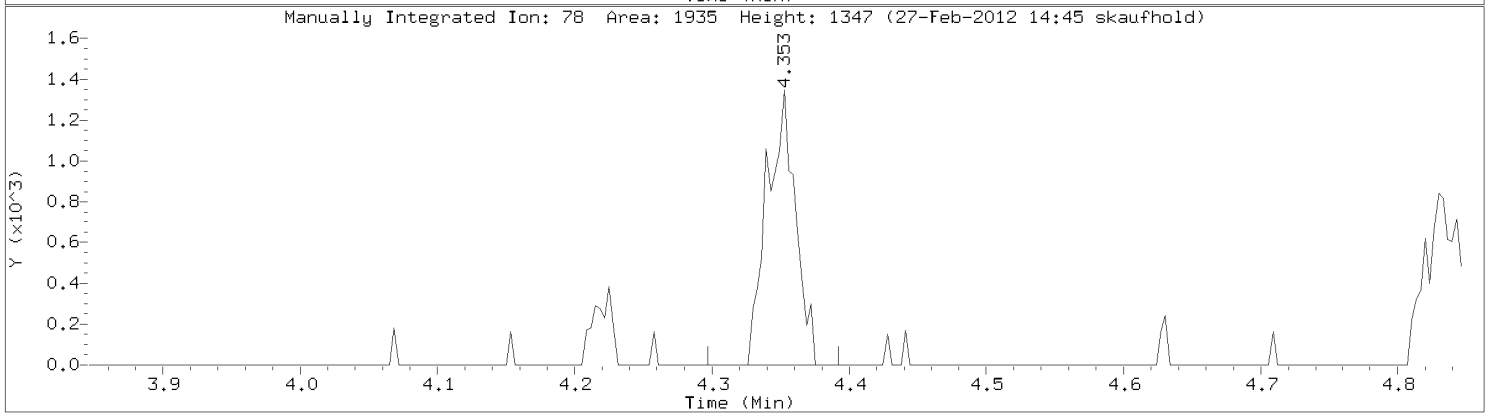
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Carbon Disulfide
CAS Number: 75-15-0



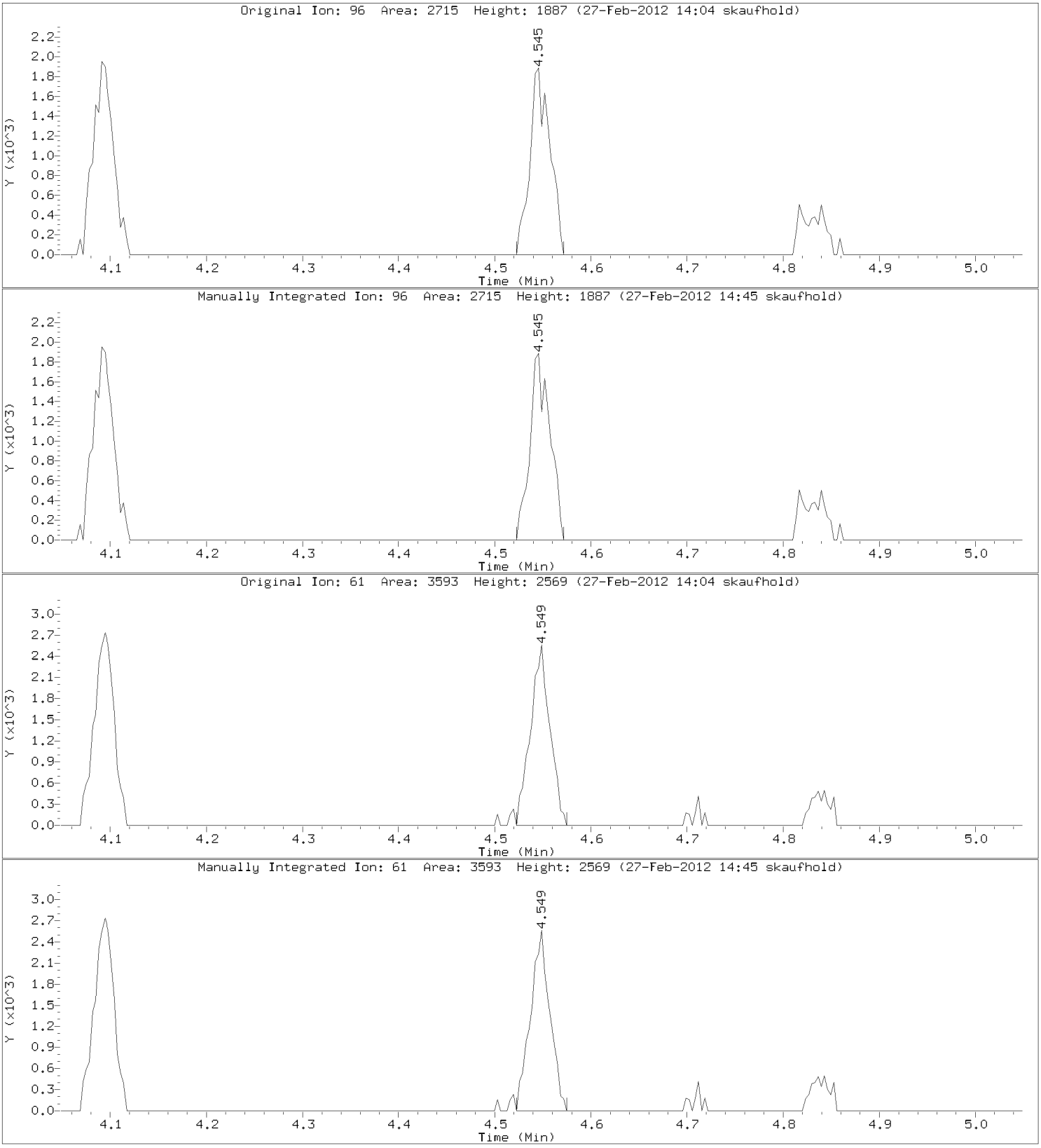




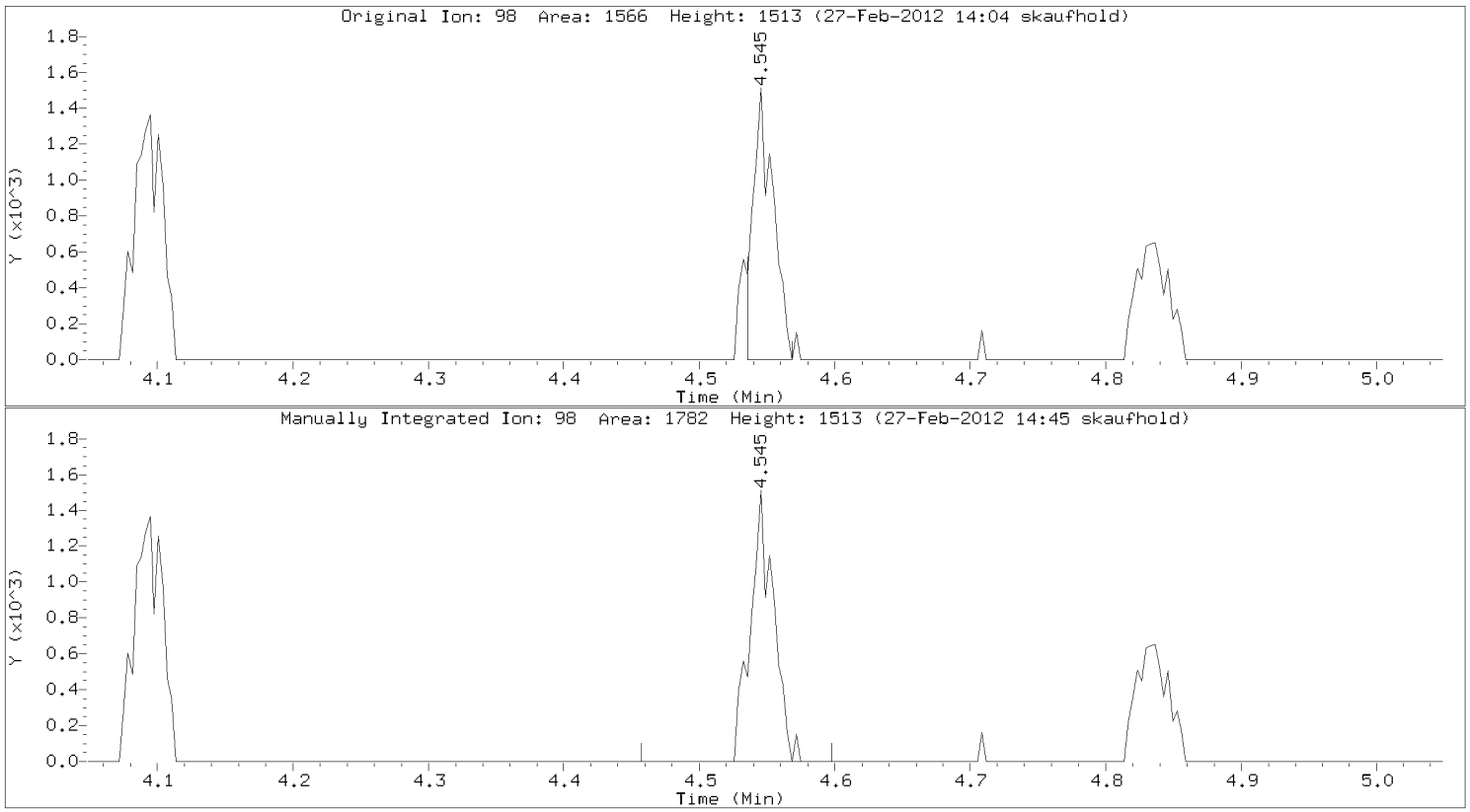


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: trans-1,2-dichloroethene
CAS Number: 156-60-5

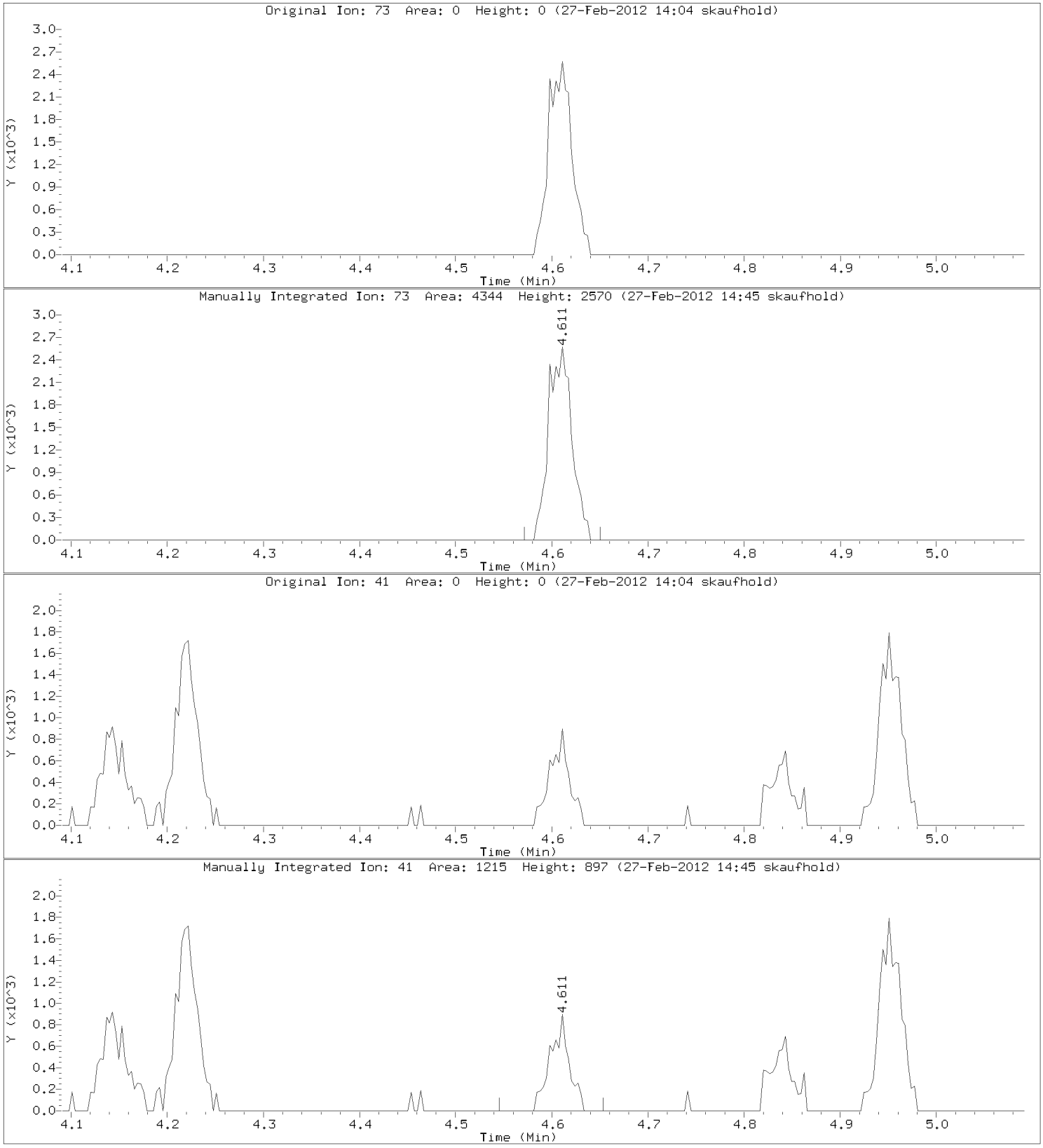


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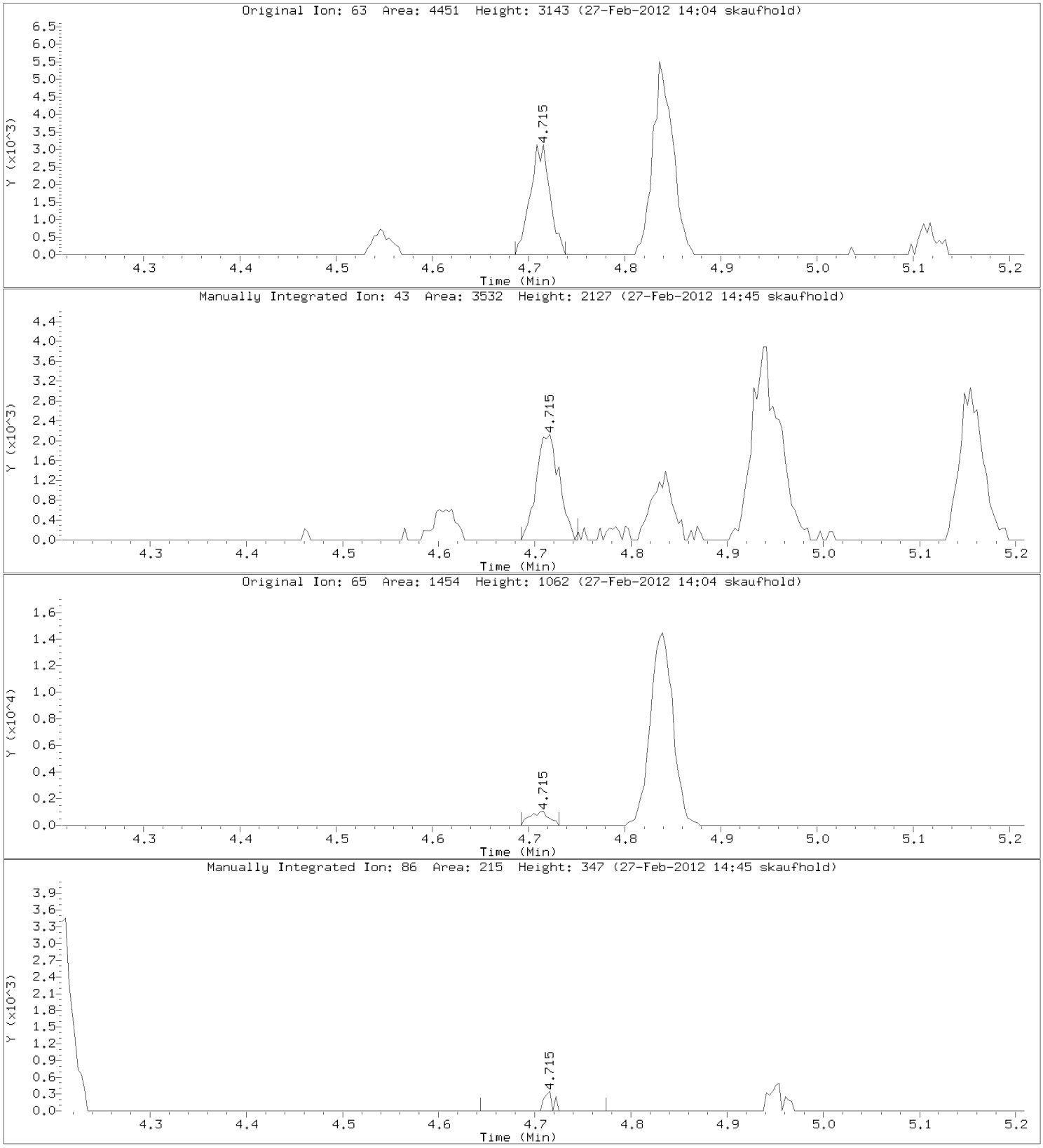
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



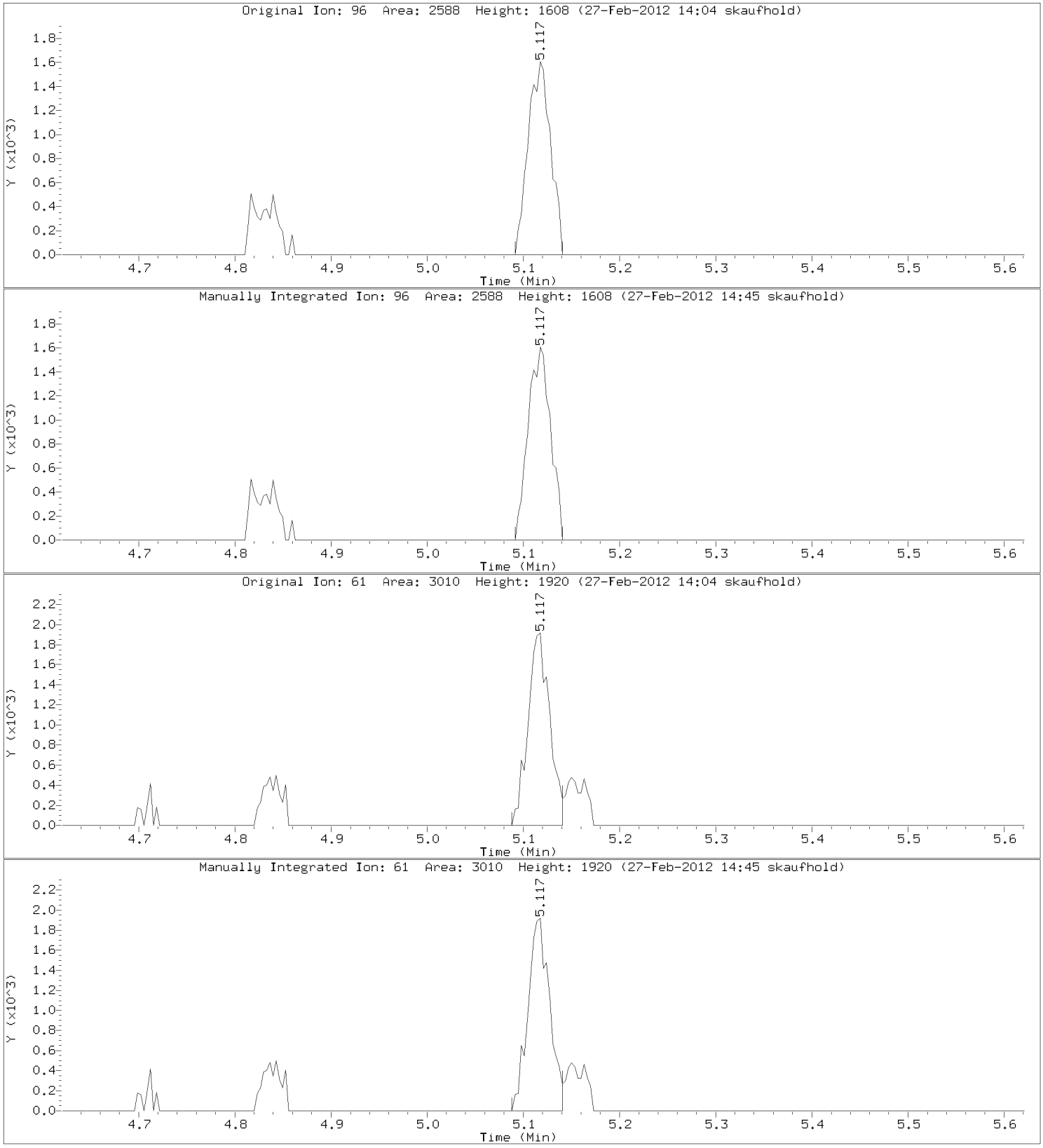
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Vinyl Acetate
CAS Number: 108-05-4

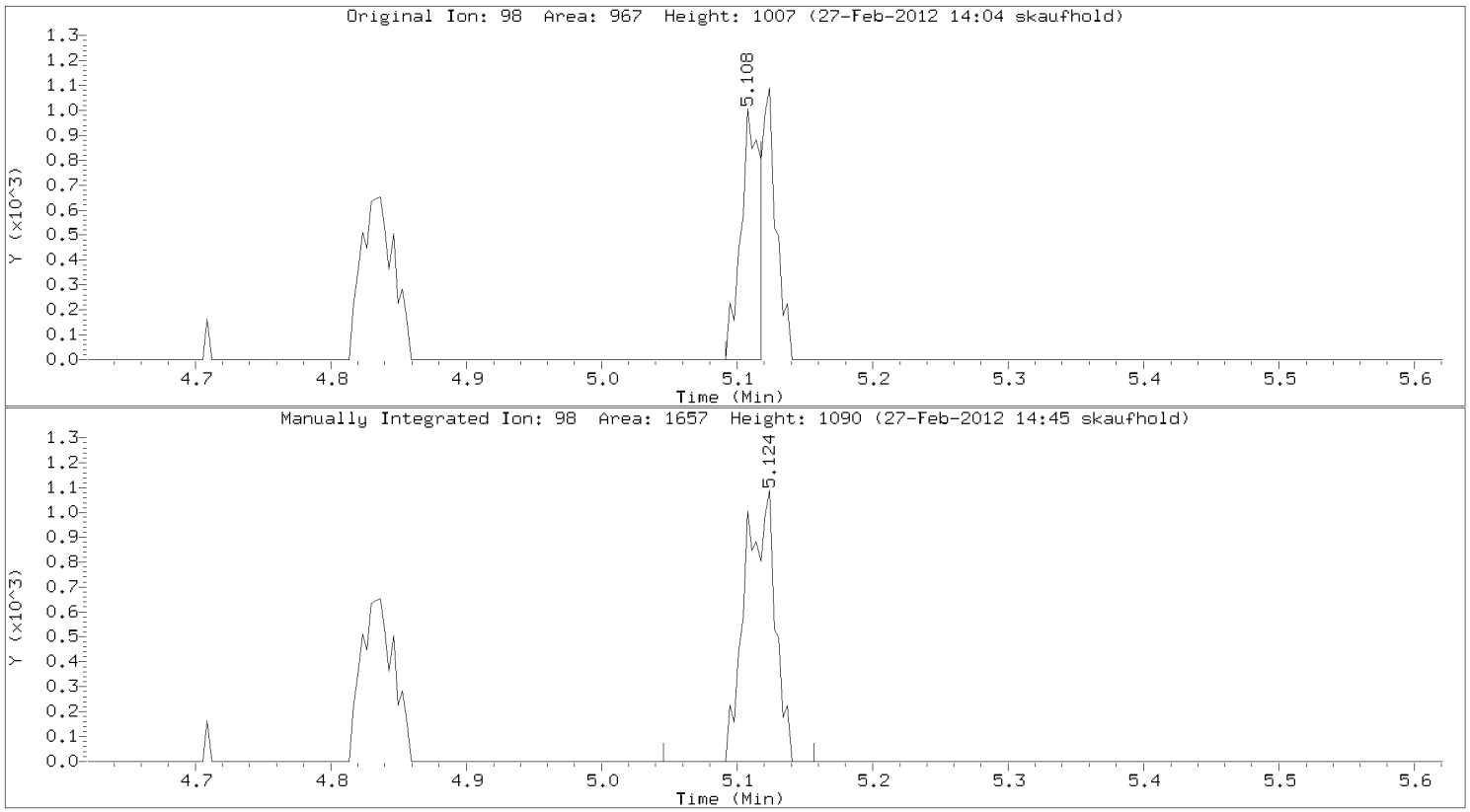


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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

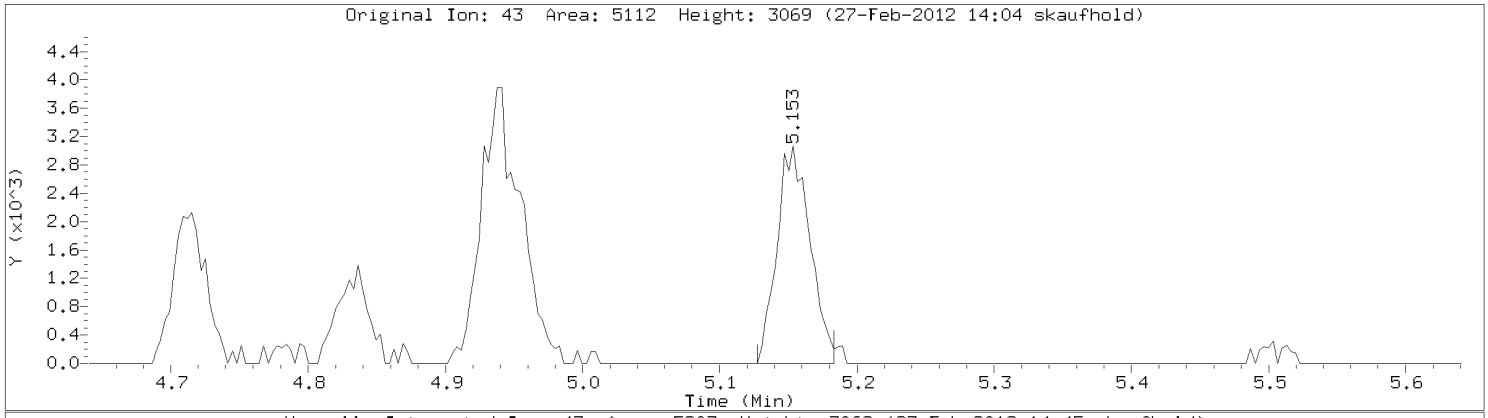


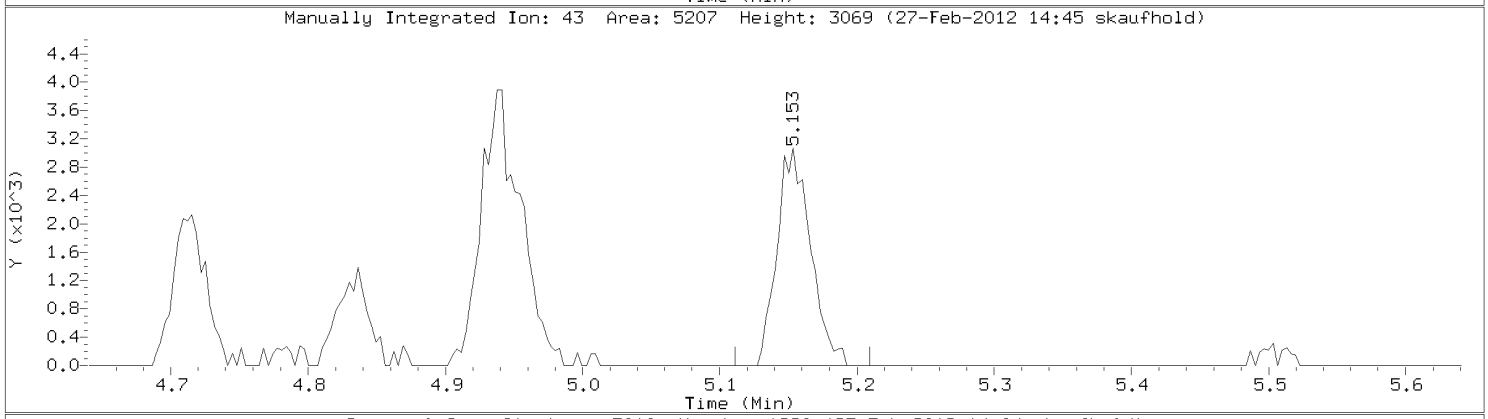
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Lab Sample ID: ICAL 1

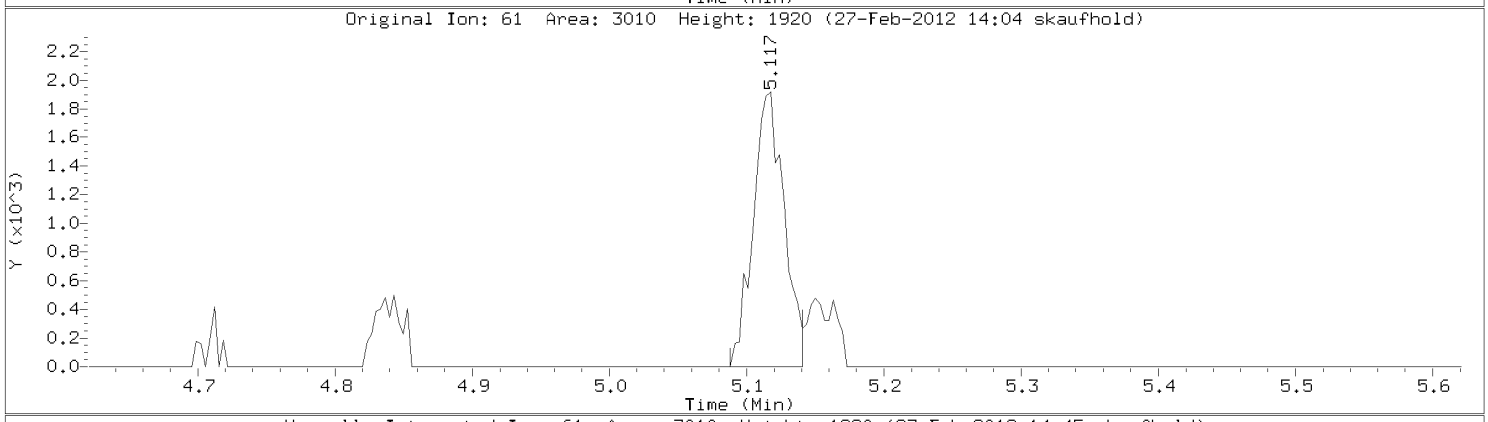


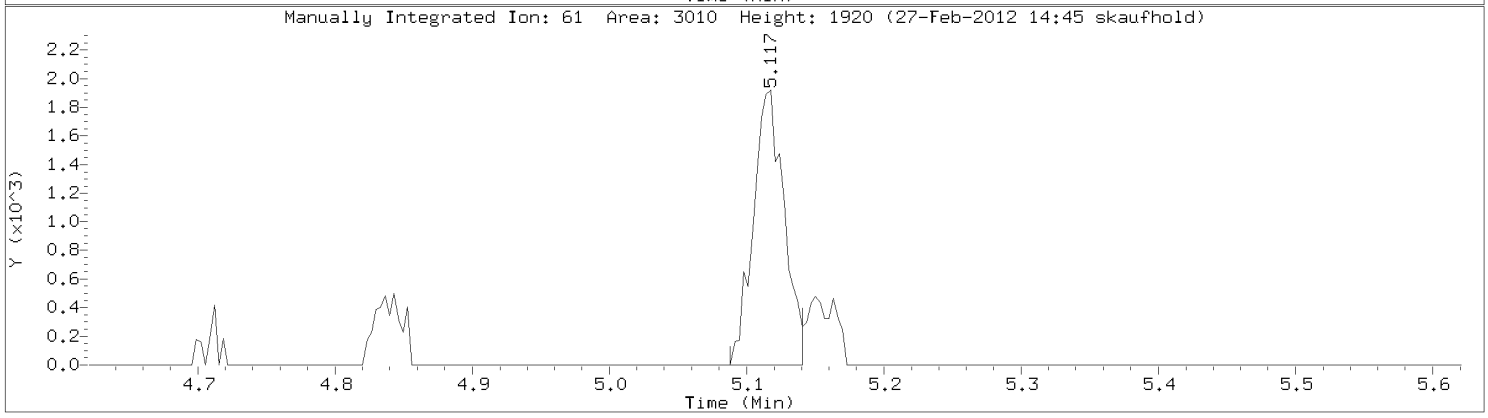
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Ethyl Acetate
CAS Number: 141-78-6

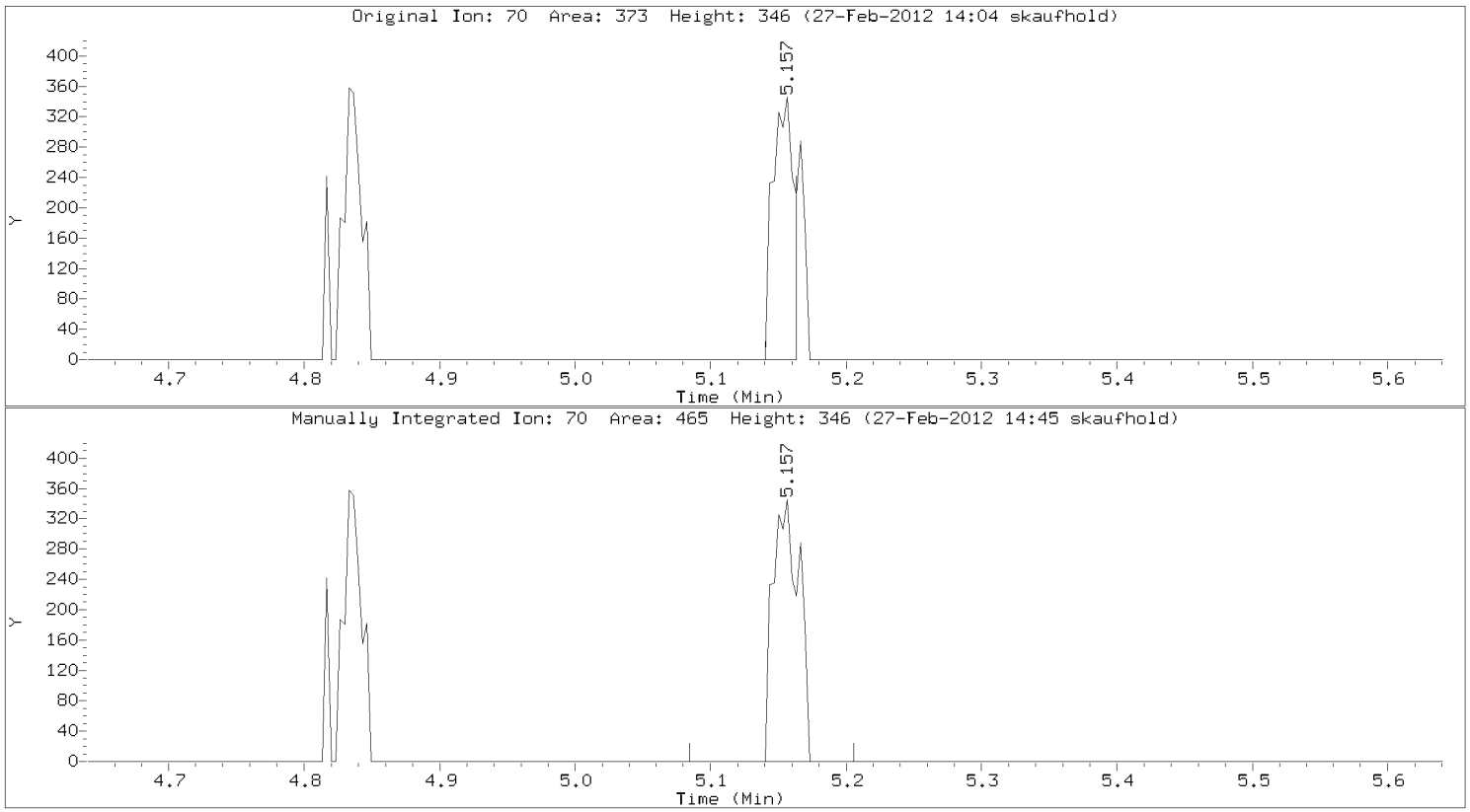






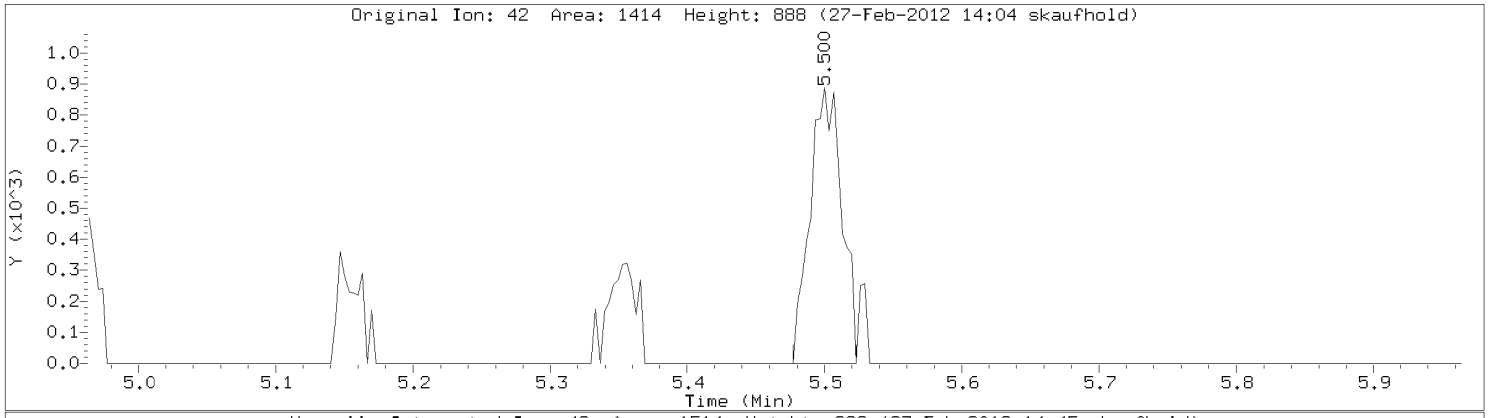


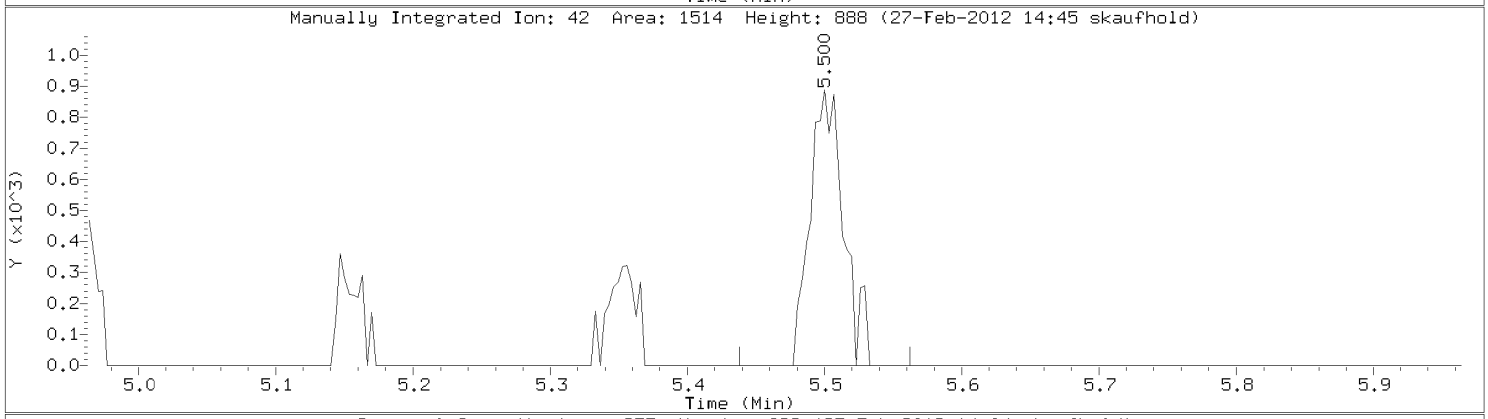
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Lab Sample ID: ICAL 1

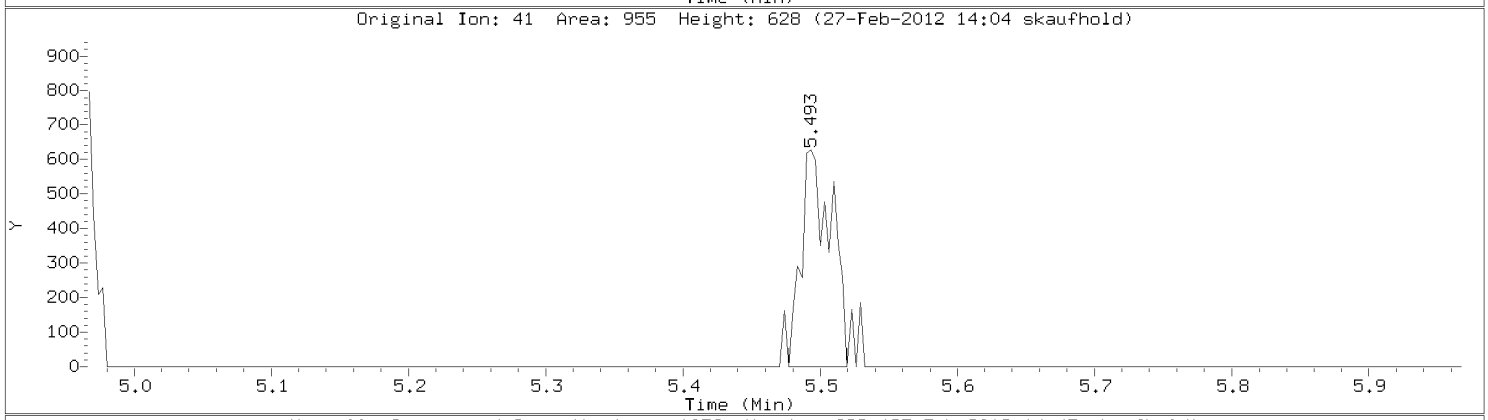


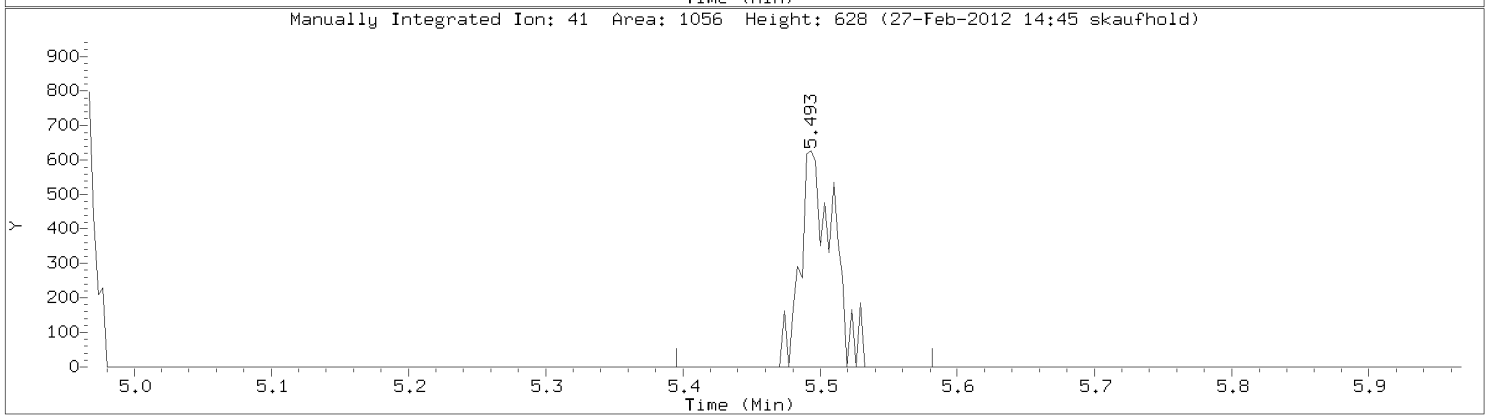
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Tetrahydrofuran
CAS Number: 109-99-9

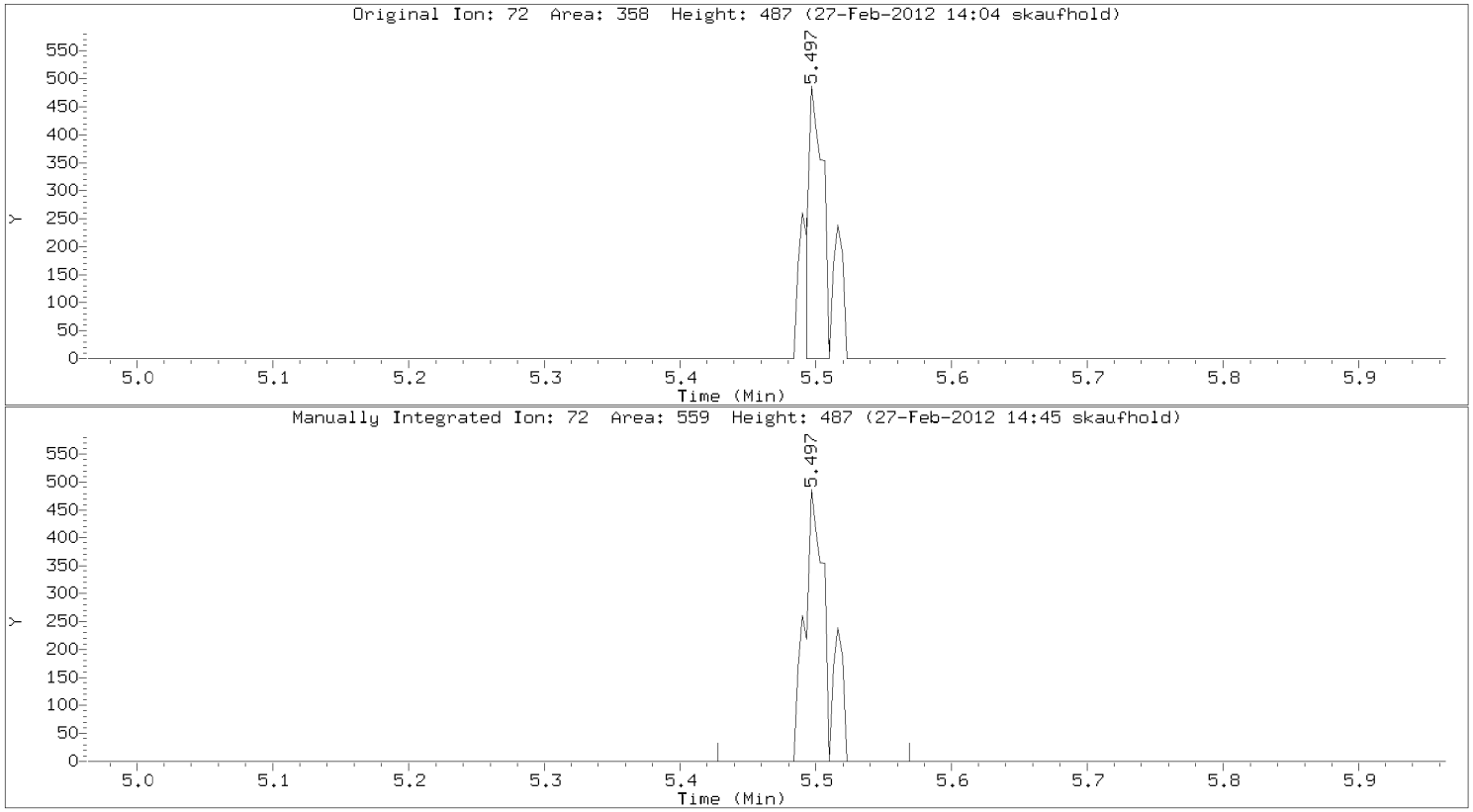






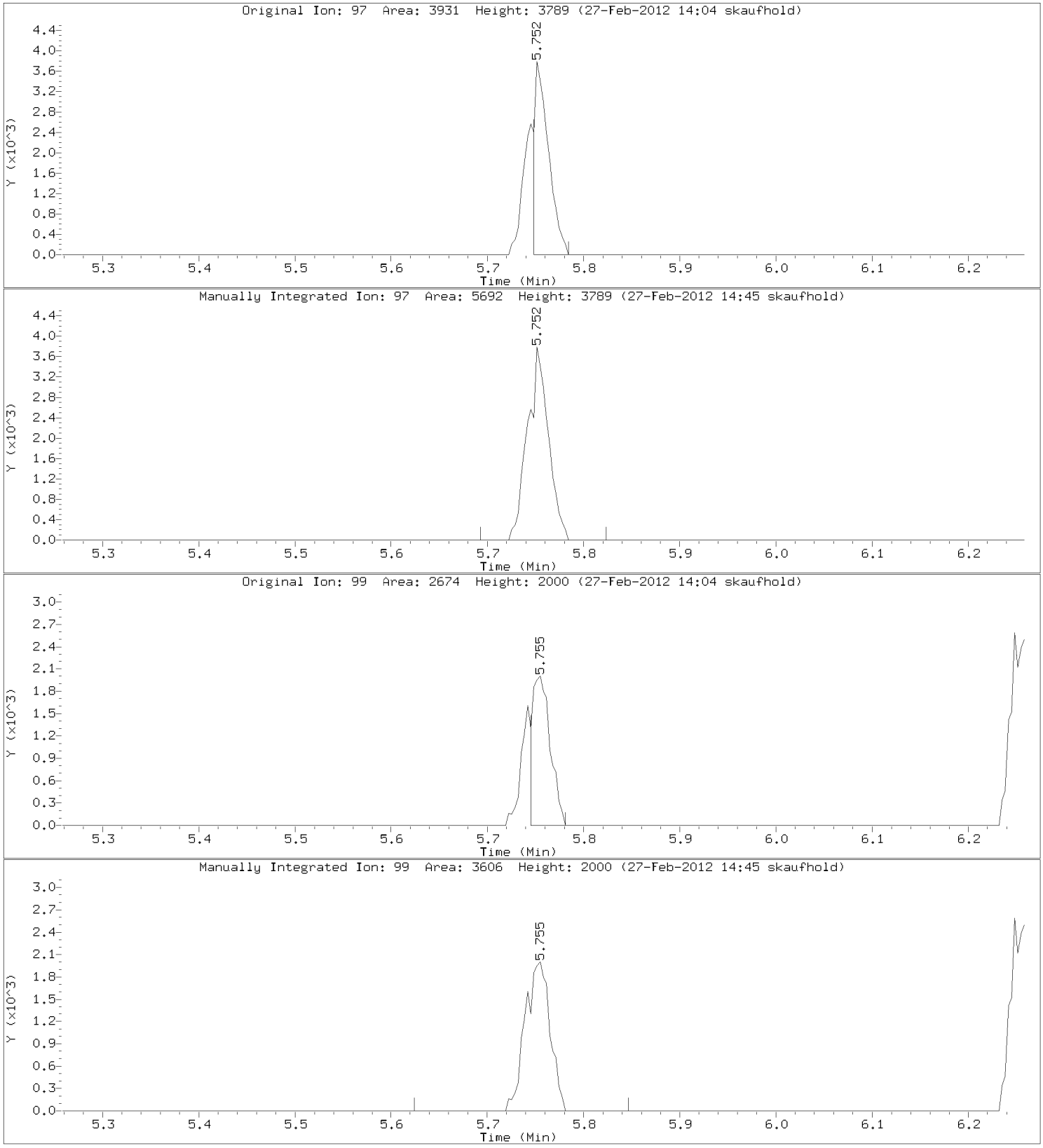


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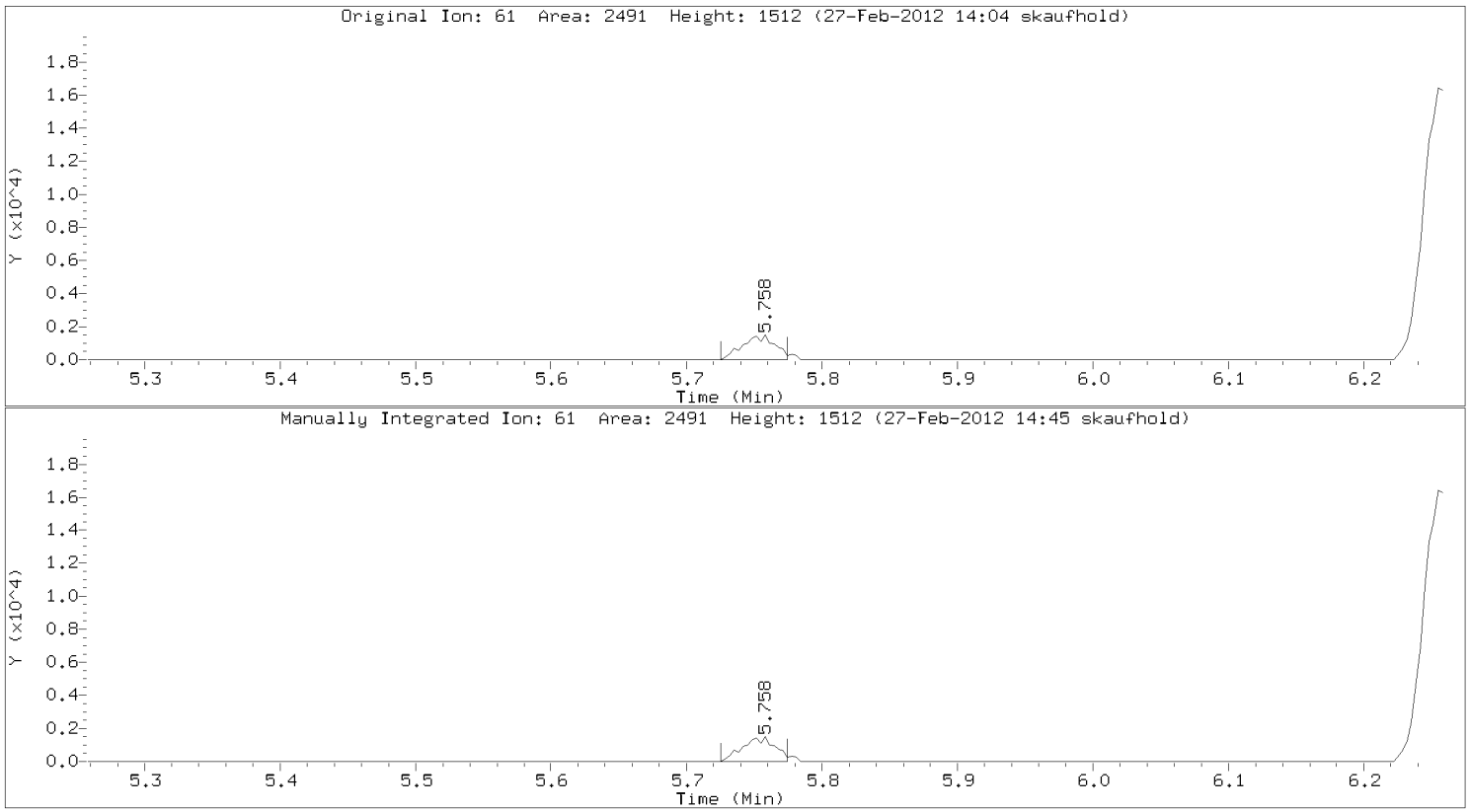


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,1,1-Trichloroethane
CAS Number: 71-55-6

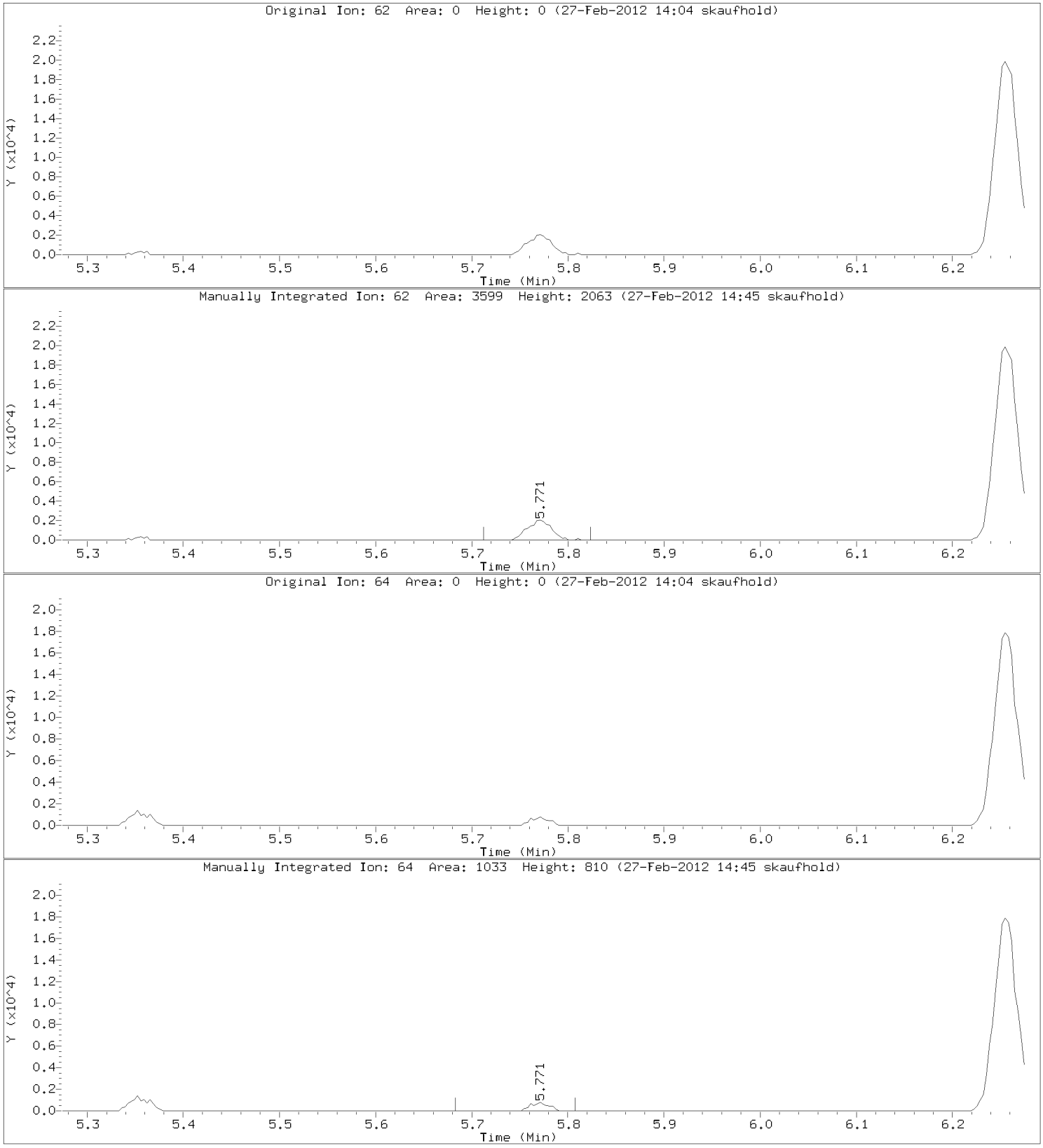


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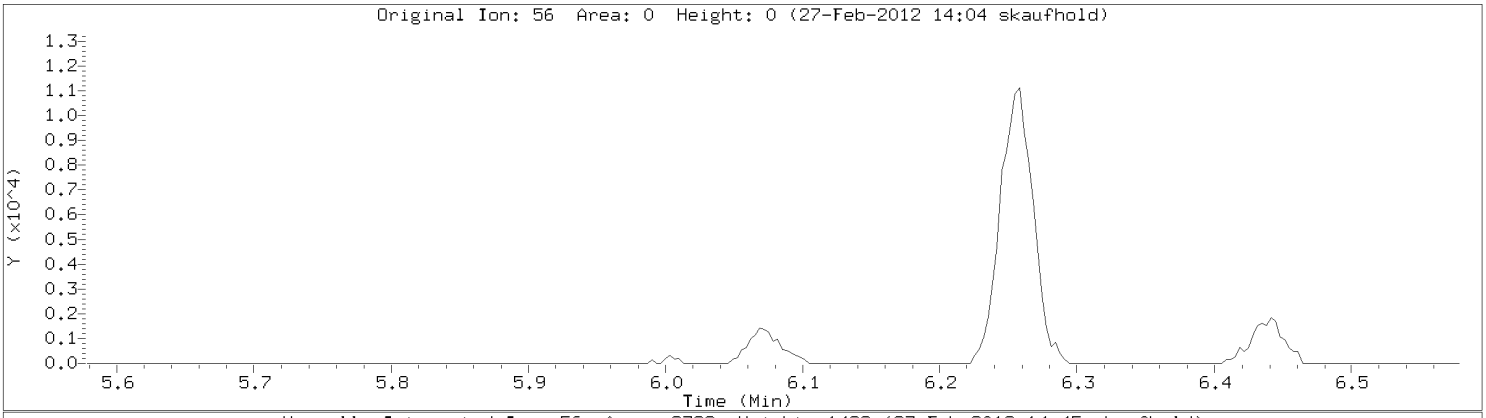
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Lab Sample ID: ICAL 1

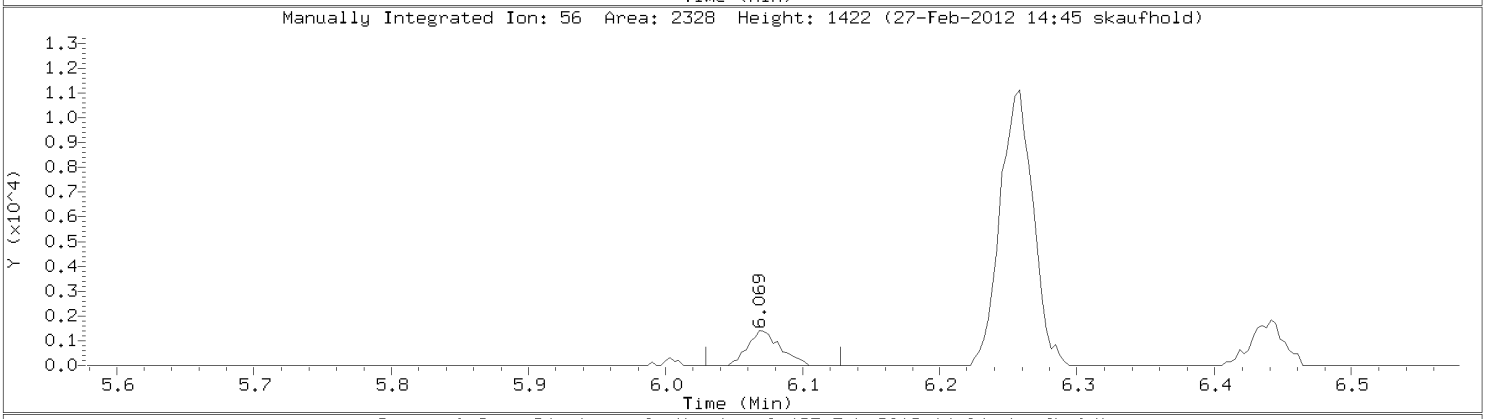
Compound: 1,2-Dichloroethane
CAS Number: 107-06-2

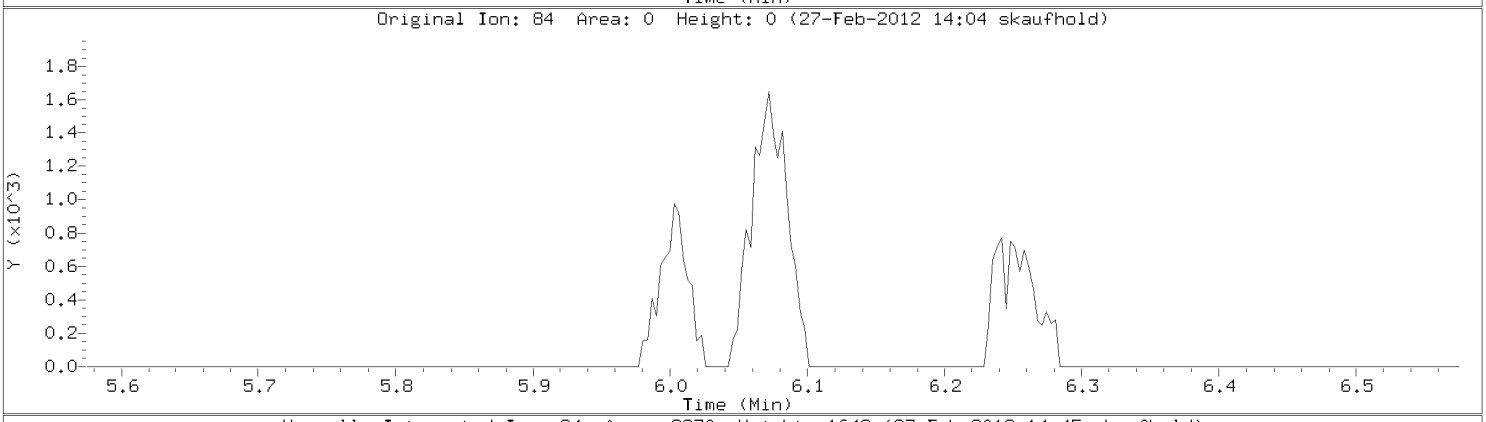


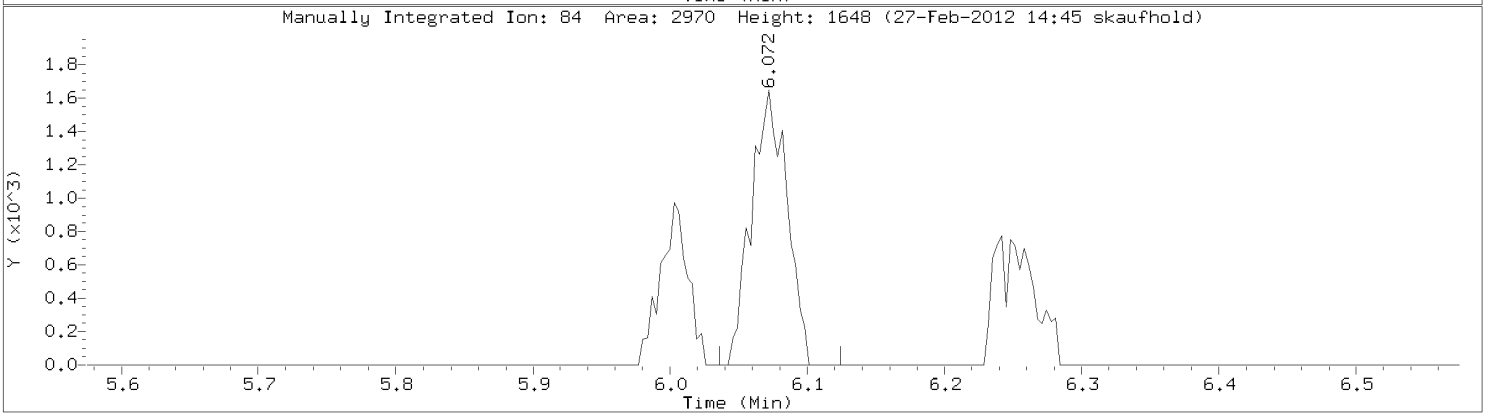
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Cyclohexane
CAS Number: 110-82-7

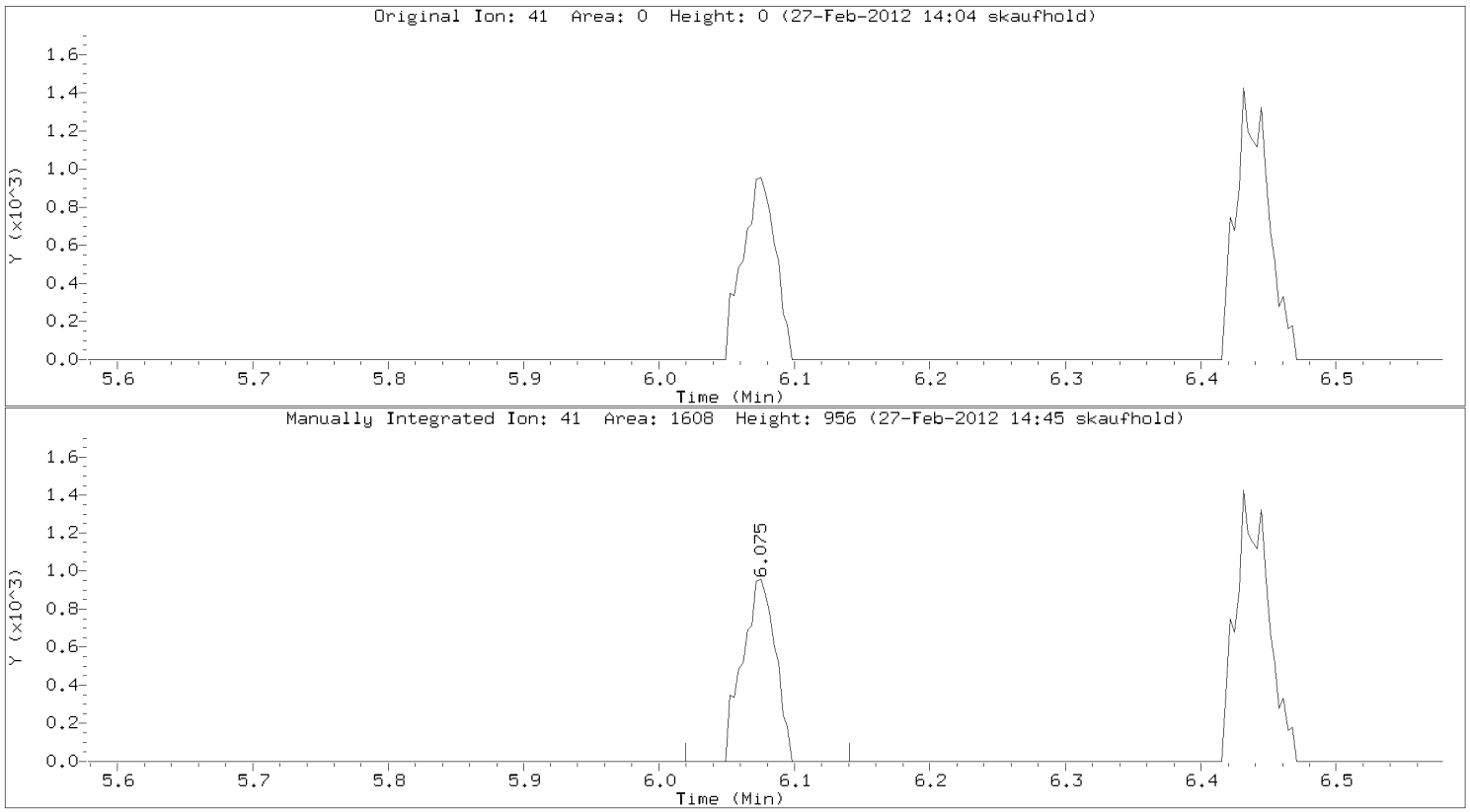






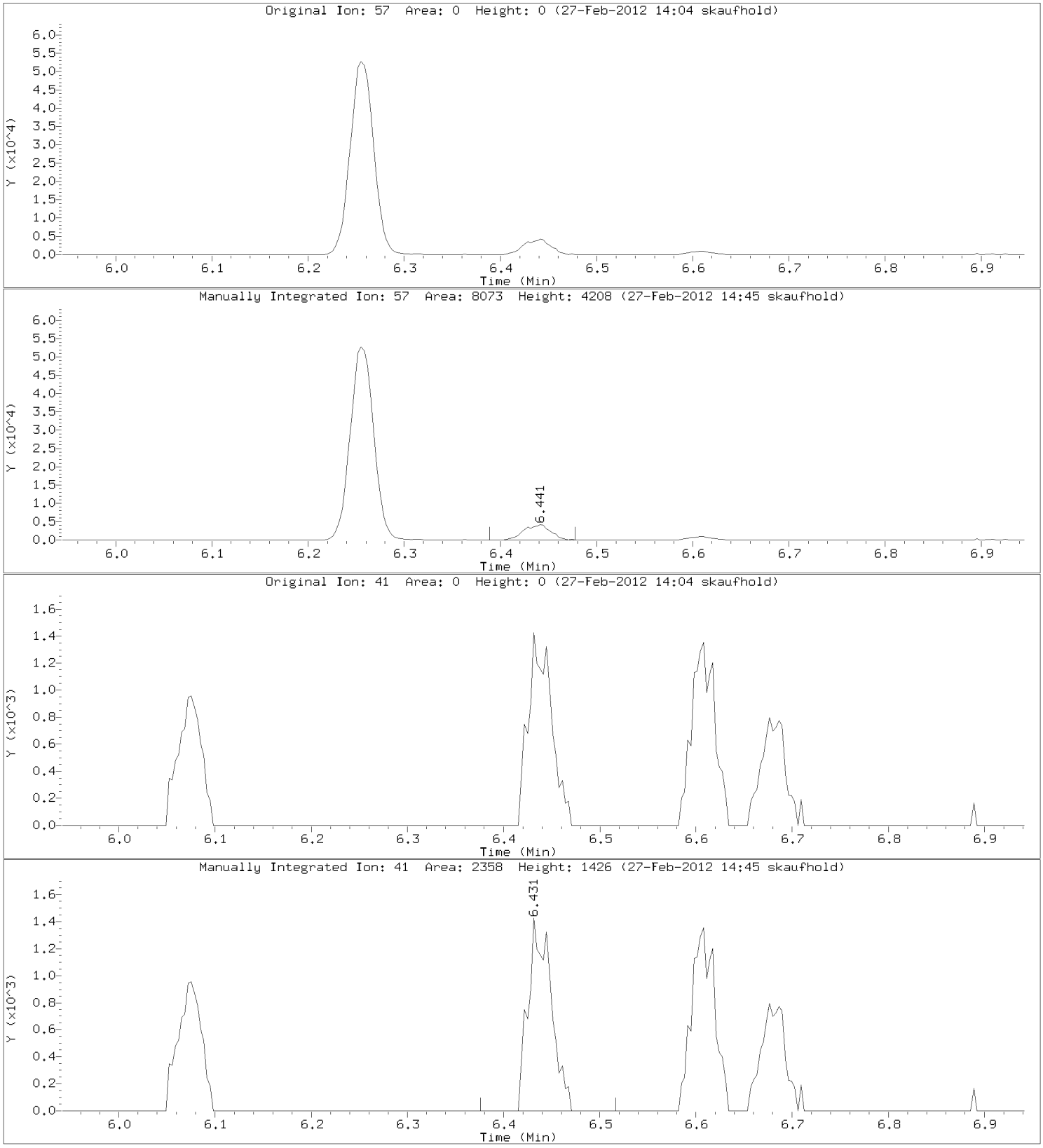


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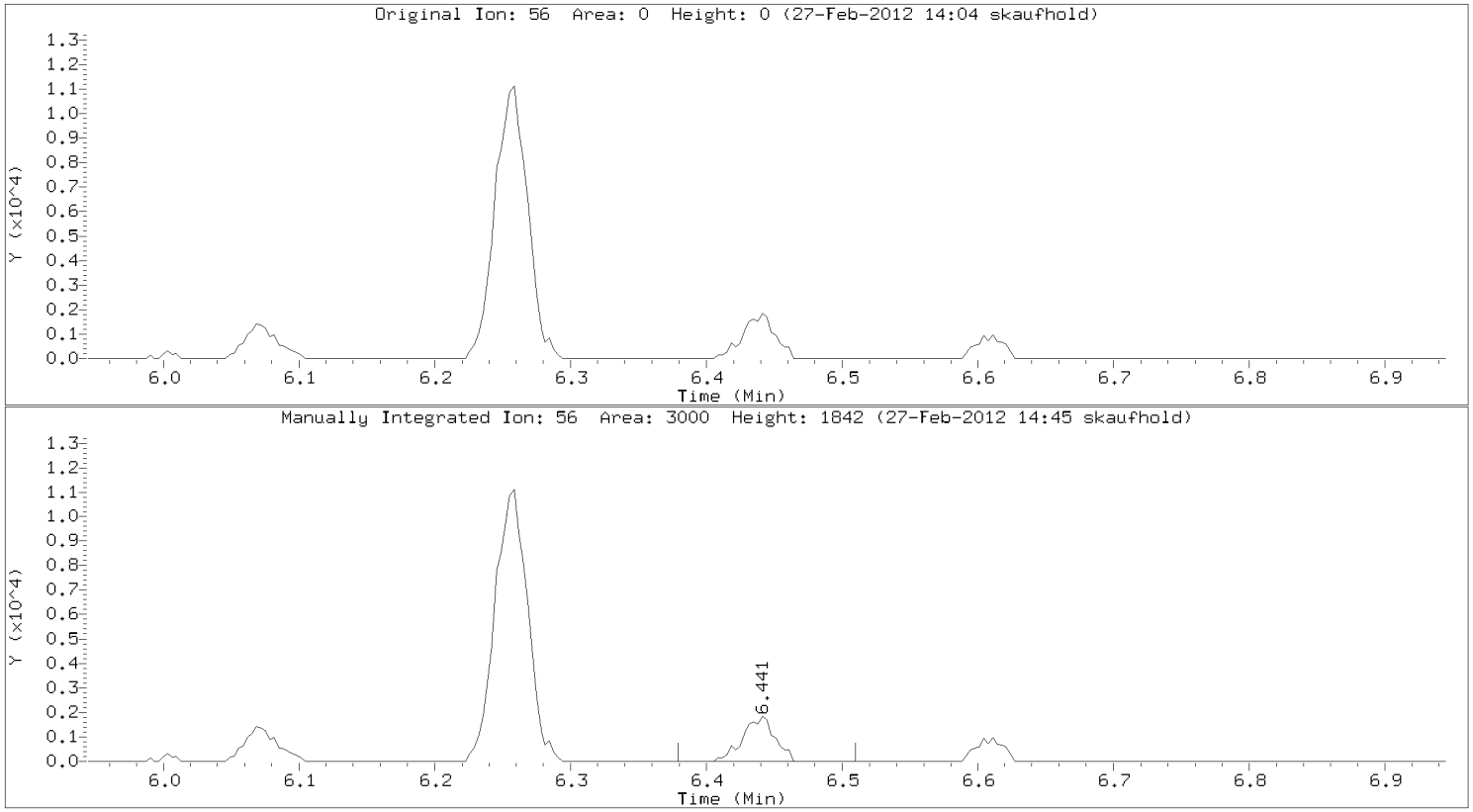


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

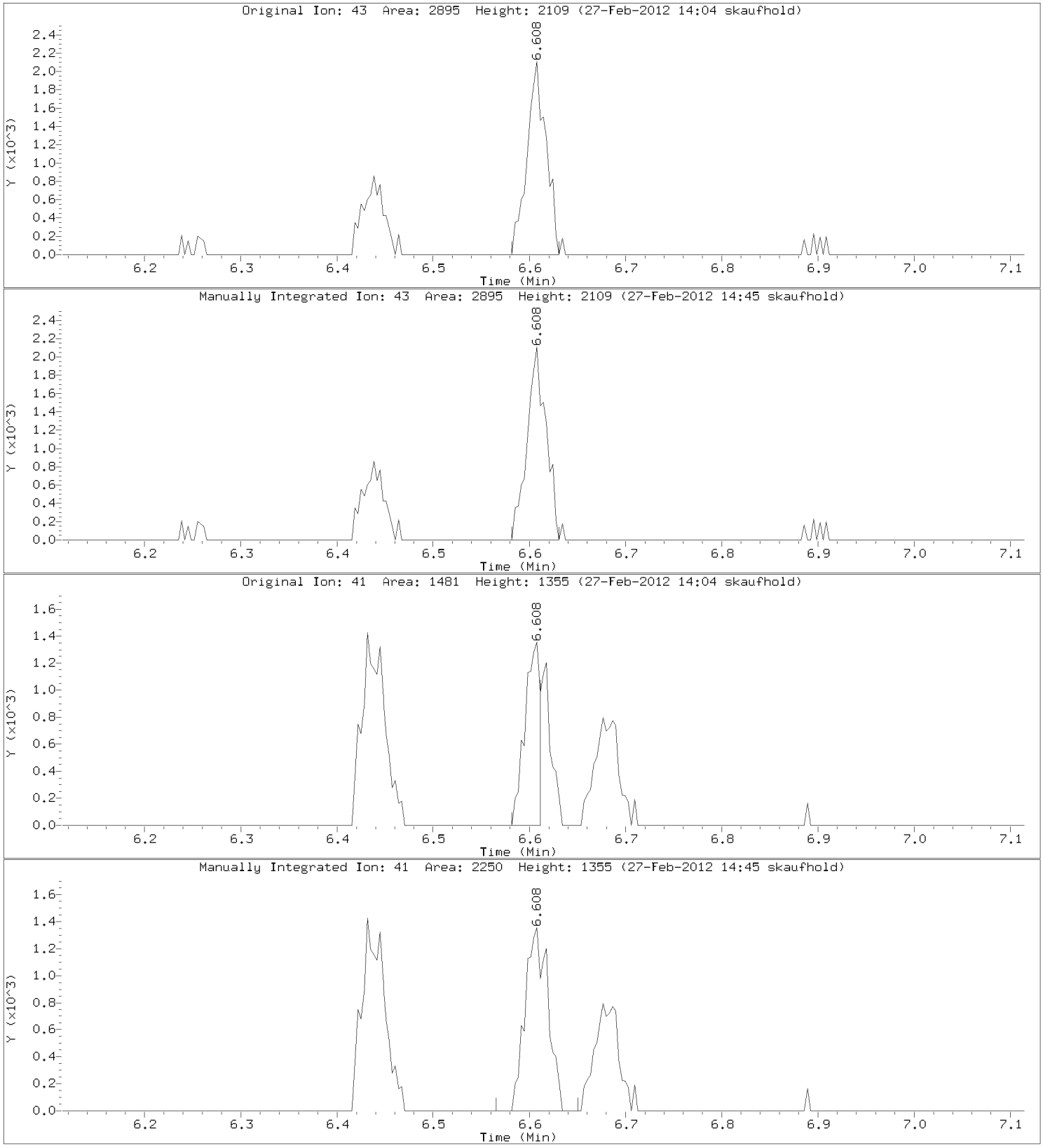


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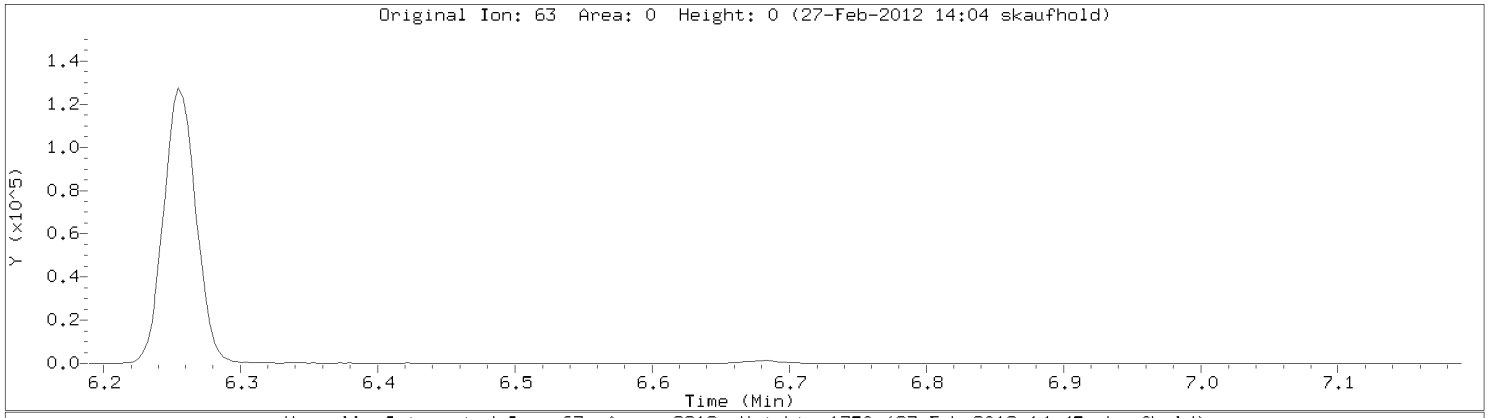
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

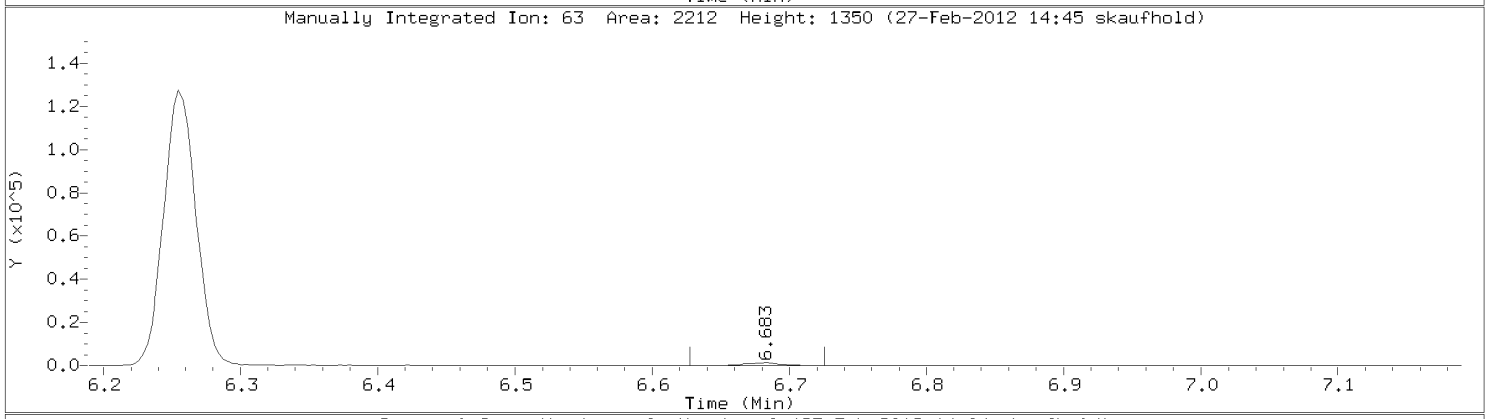
Compound: Heptane
CAS Number: 142-82-5

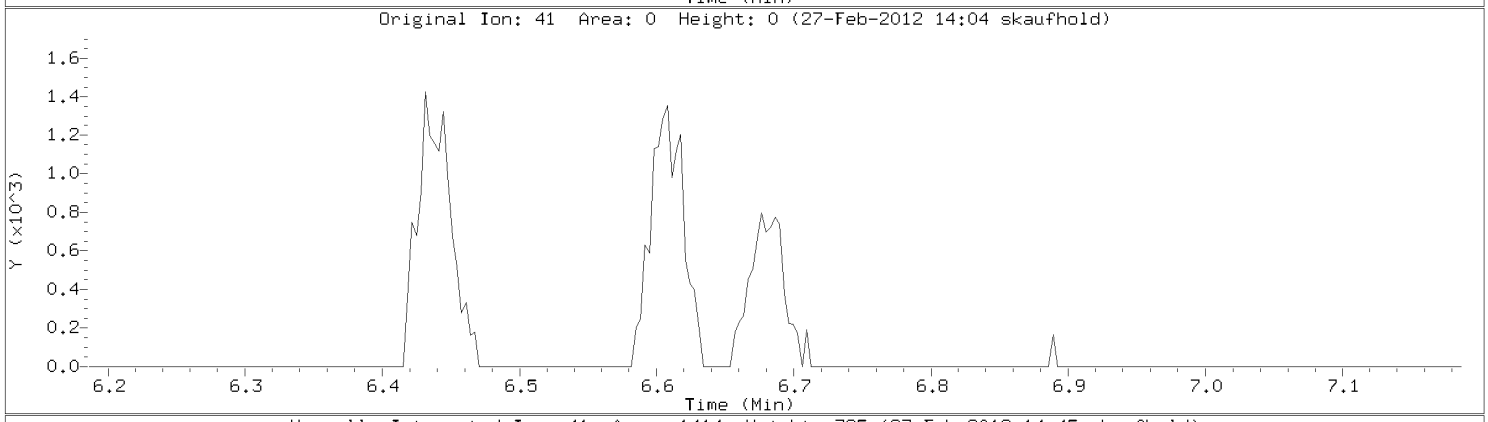


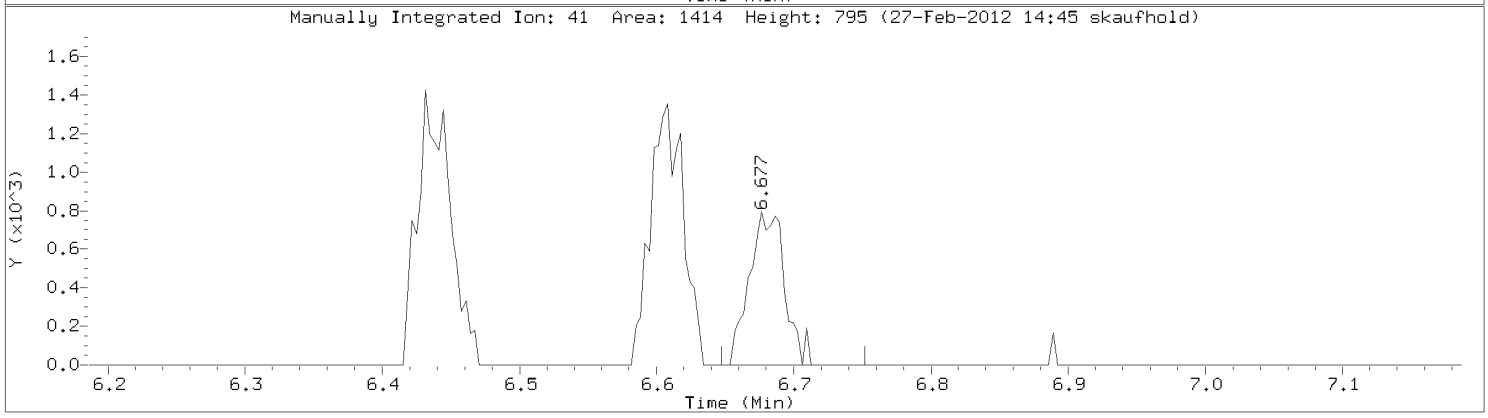
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

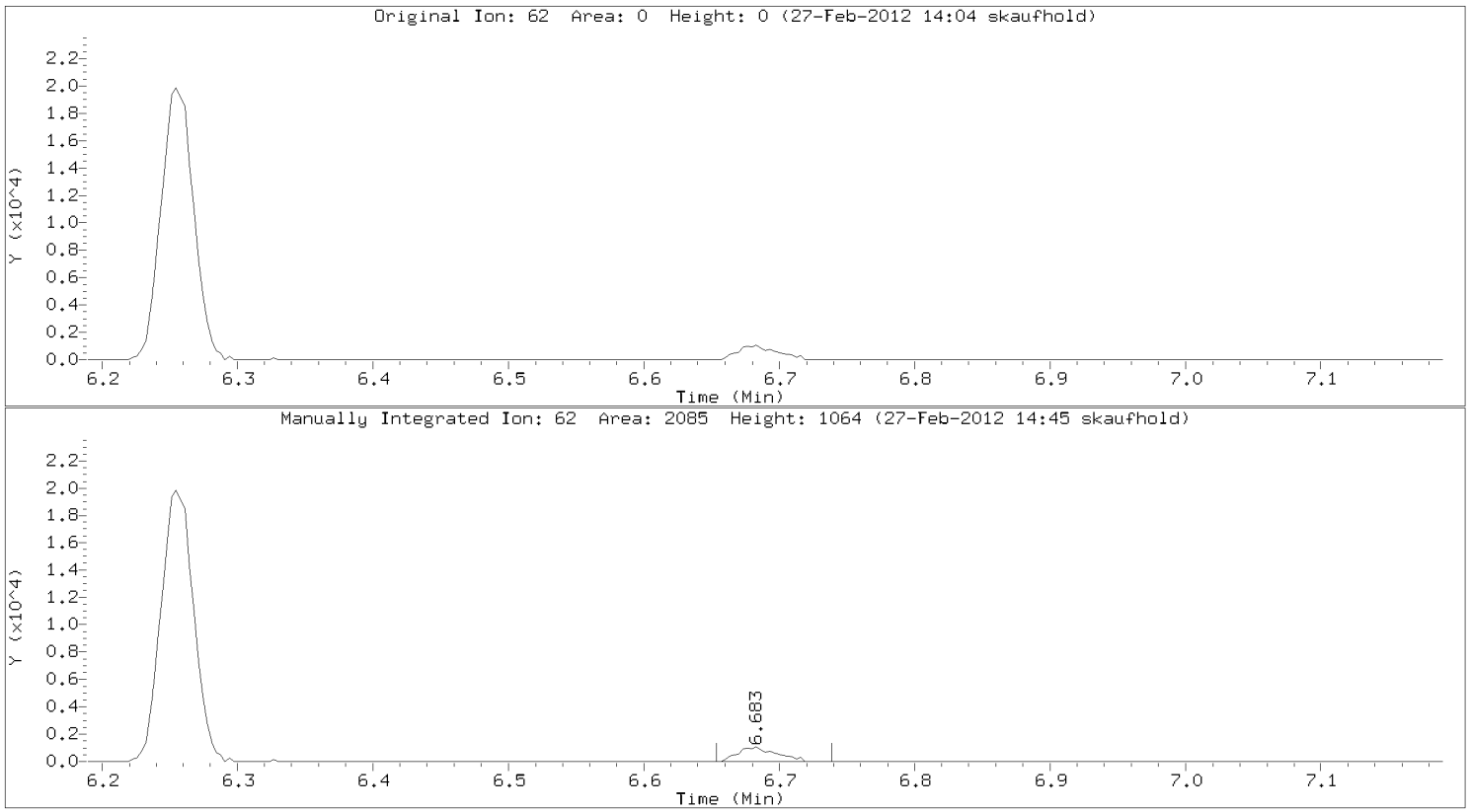






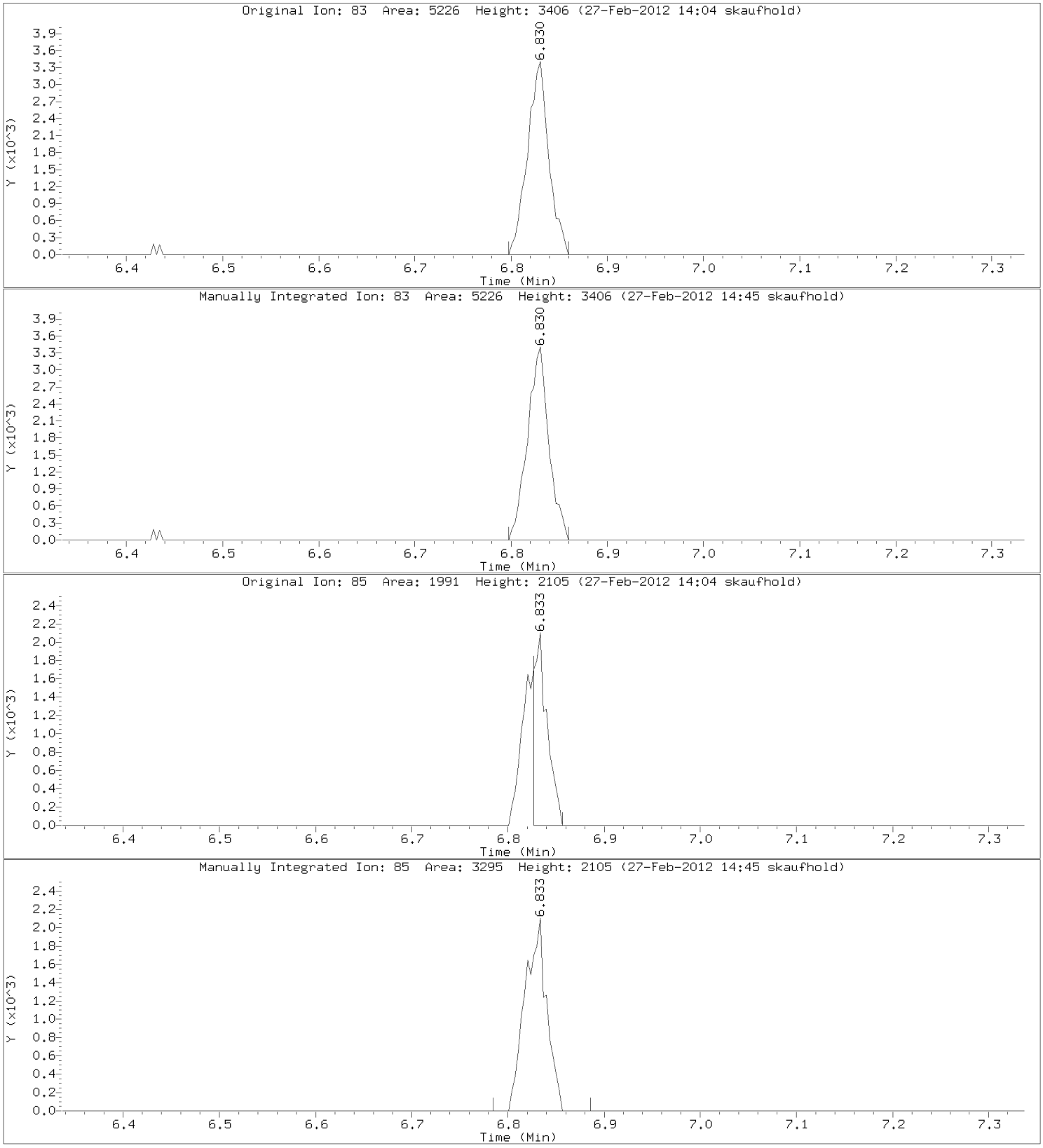


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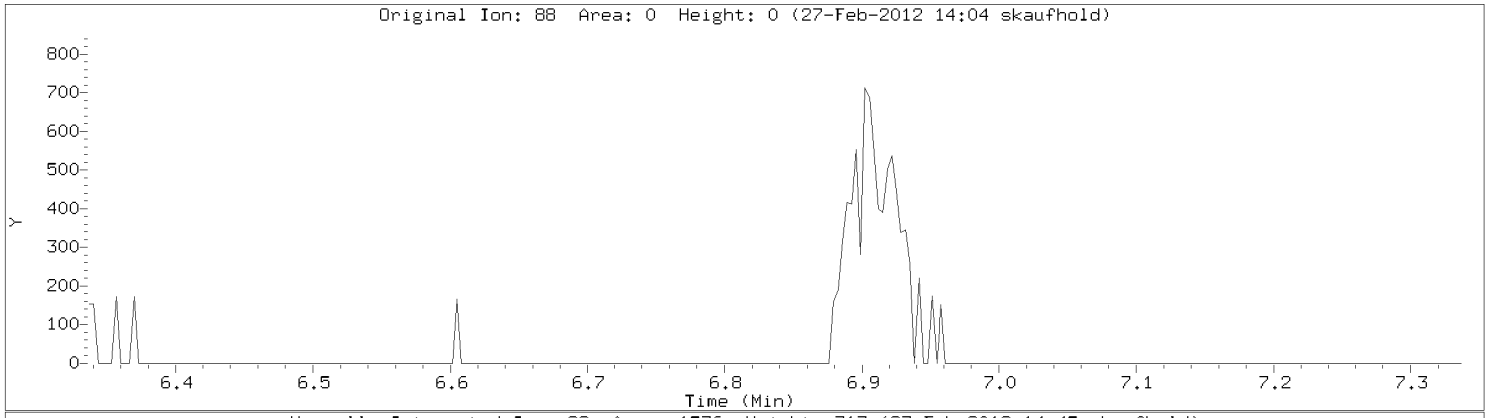
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Lab Sample ID: ICAL 1

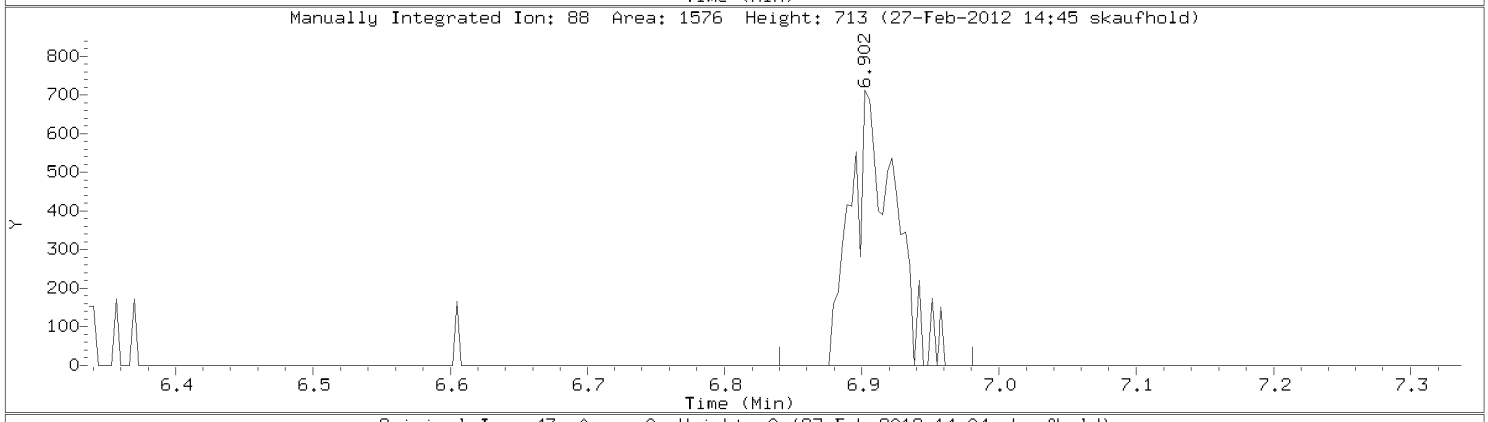
Compound: Bromodichloromethane
CAS Number: 75-27-4

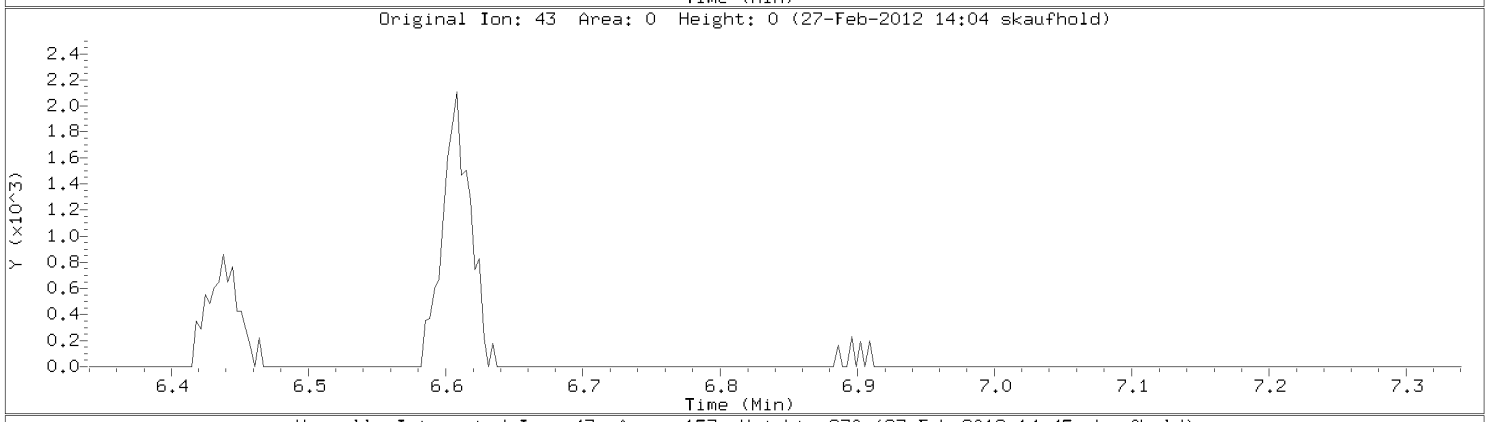


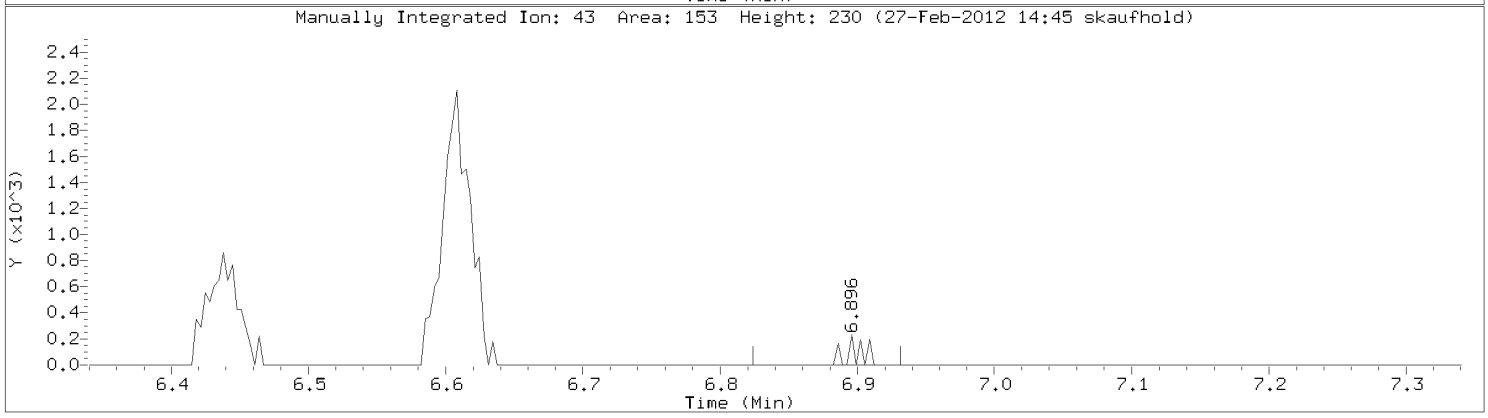
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,4-Dioxane
CAS Number: 123-91-1



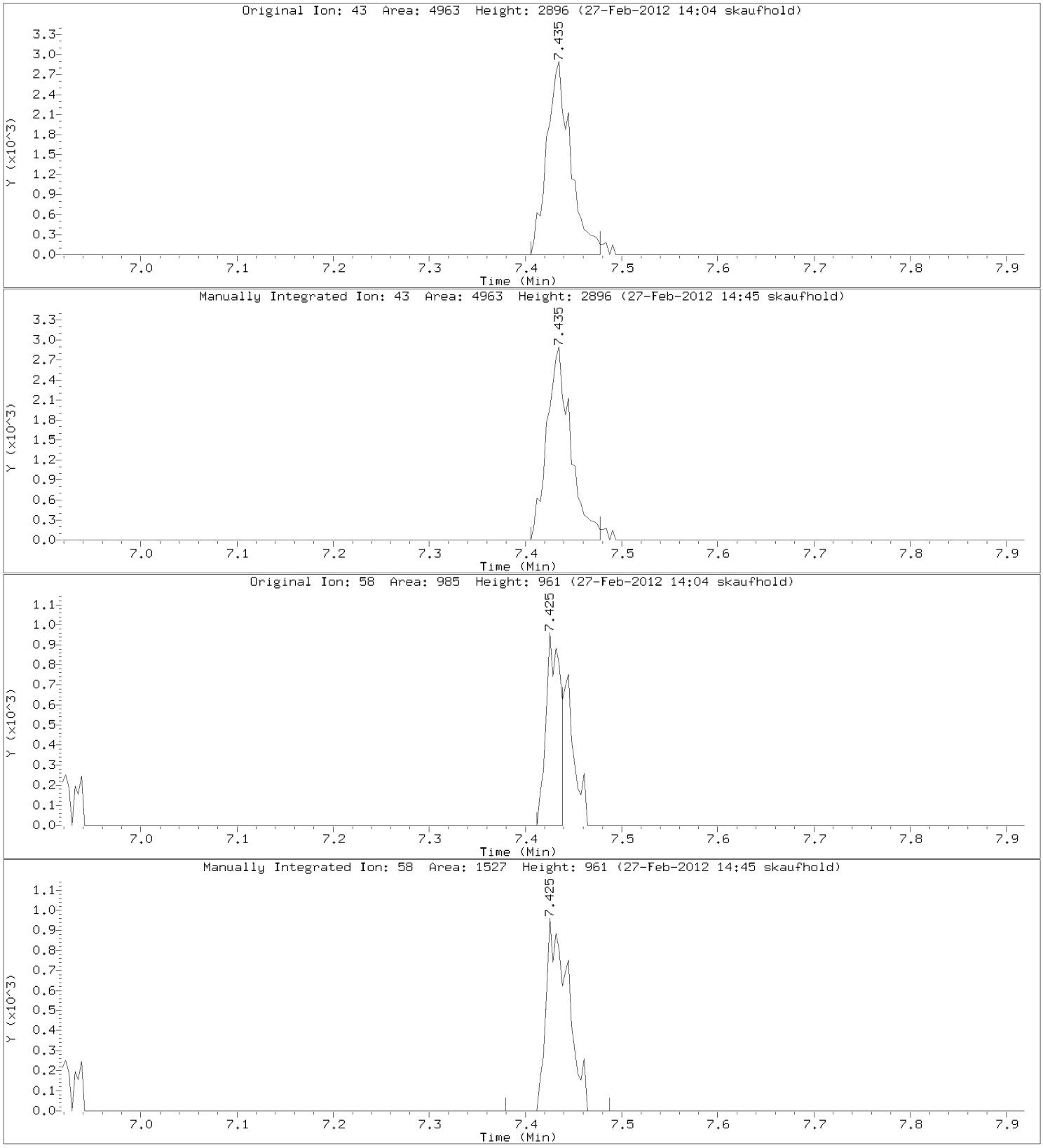




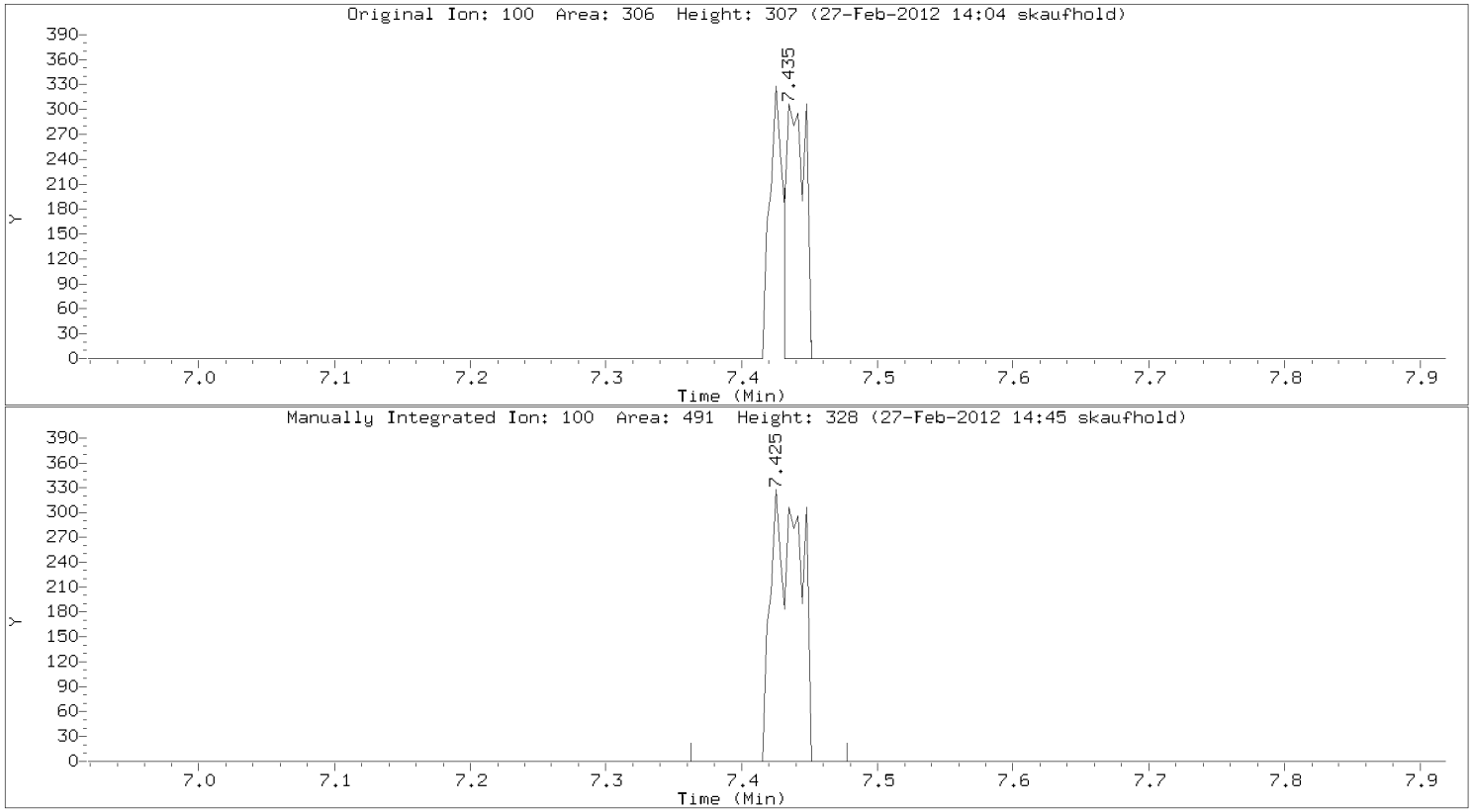


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Methyl Isobutyl Ketone
CAS Number: 108-10-1

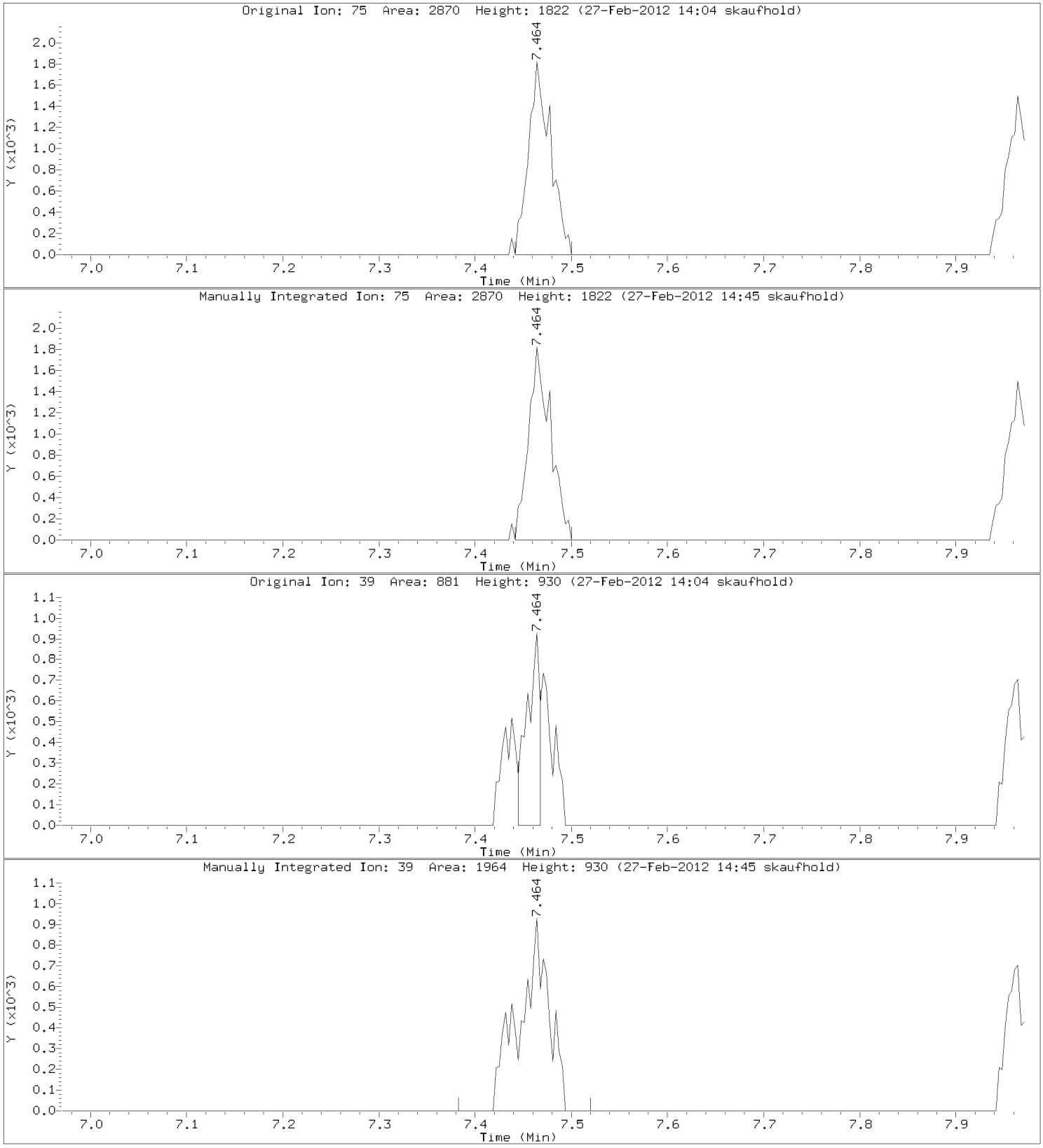


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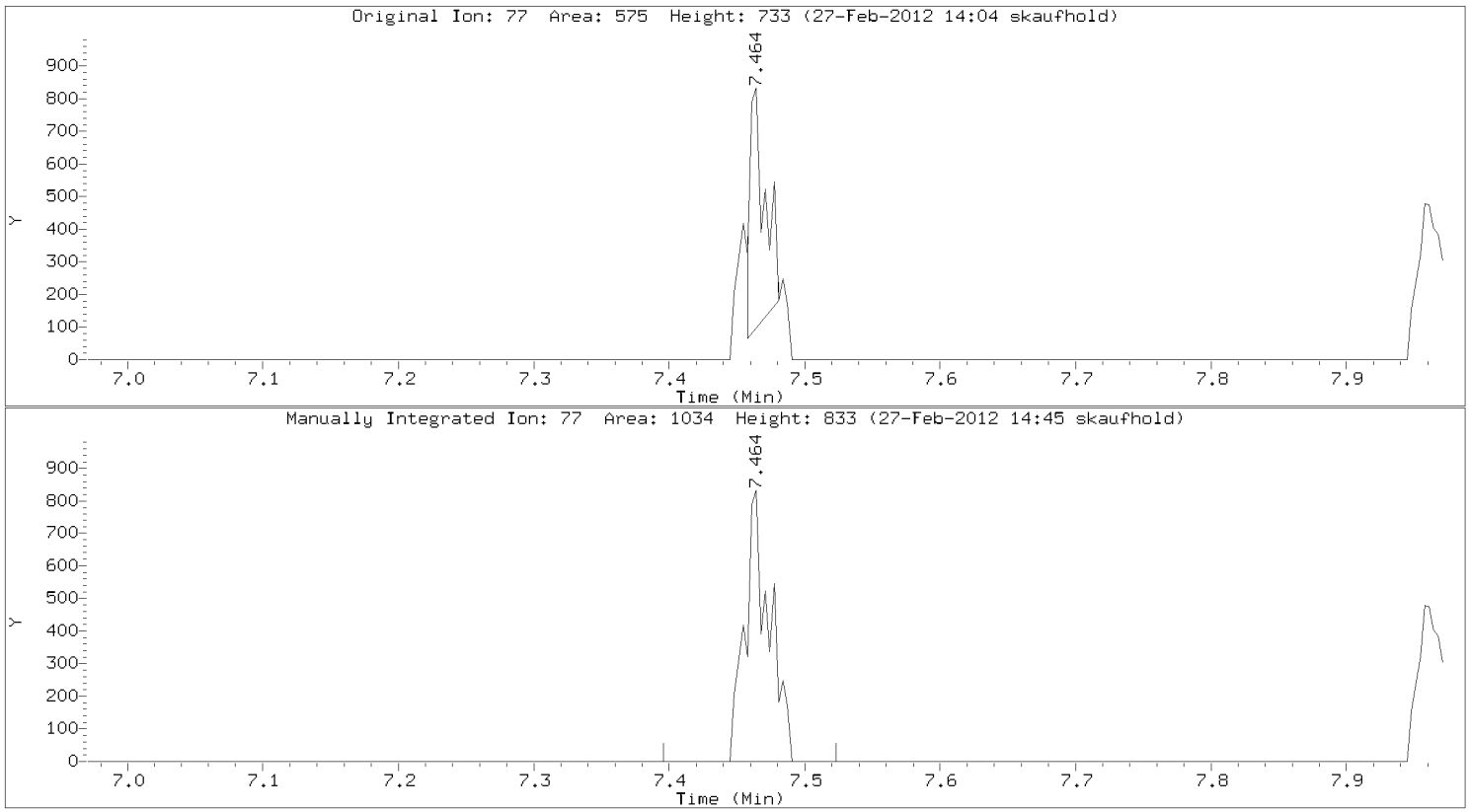


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: cis-1,3-Dichloropropene
CAS Number: 10061-01-5

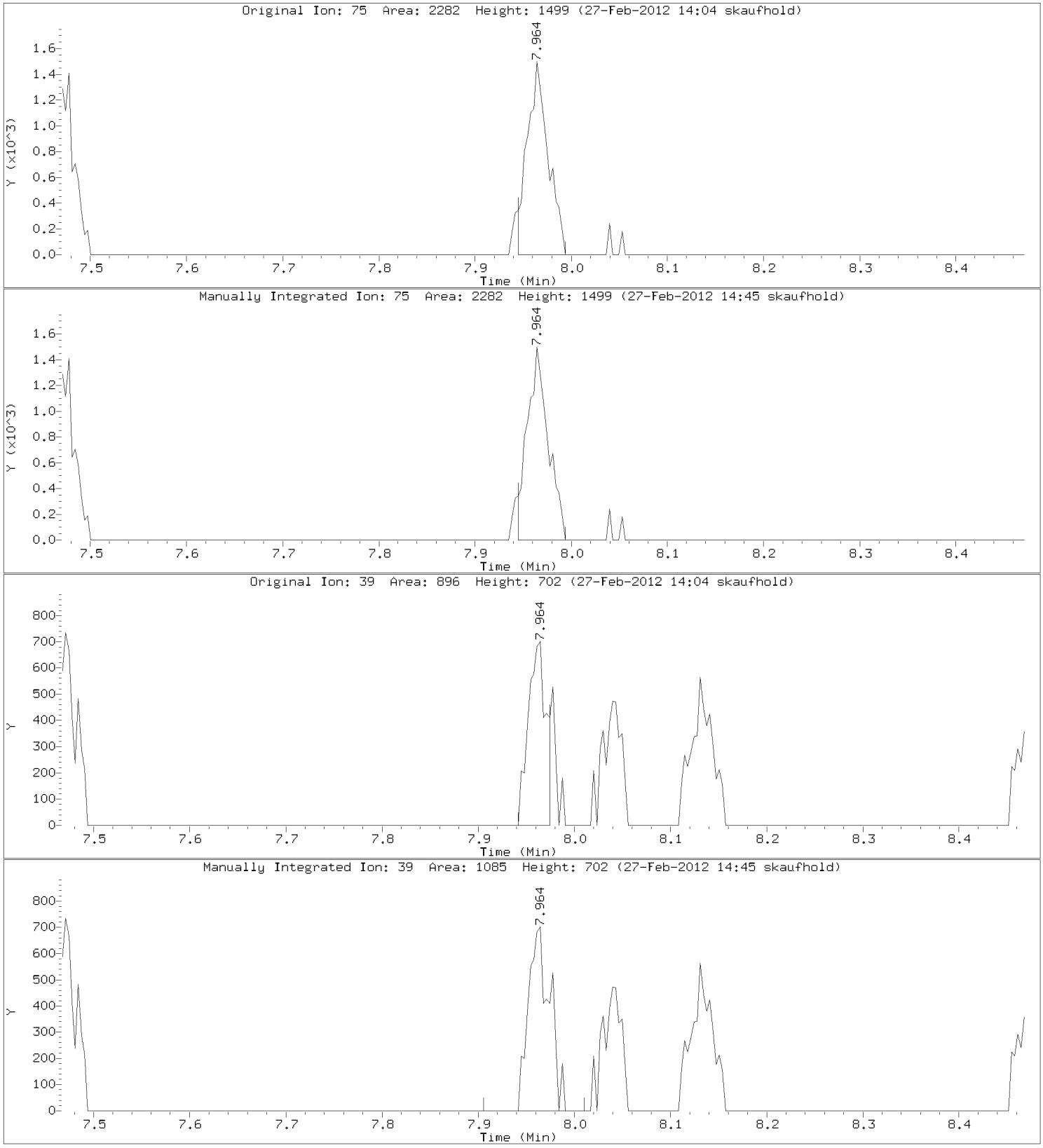


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Instrument: 10airD.i
Lab Sample ID: ICAL 1

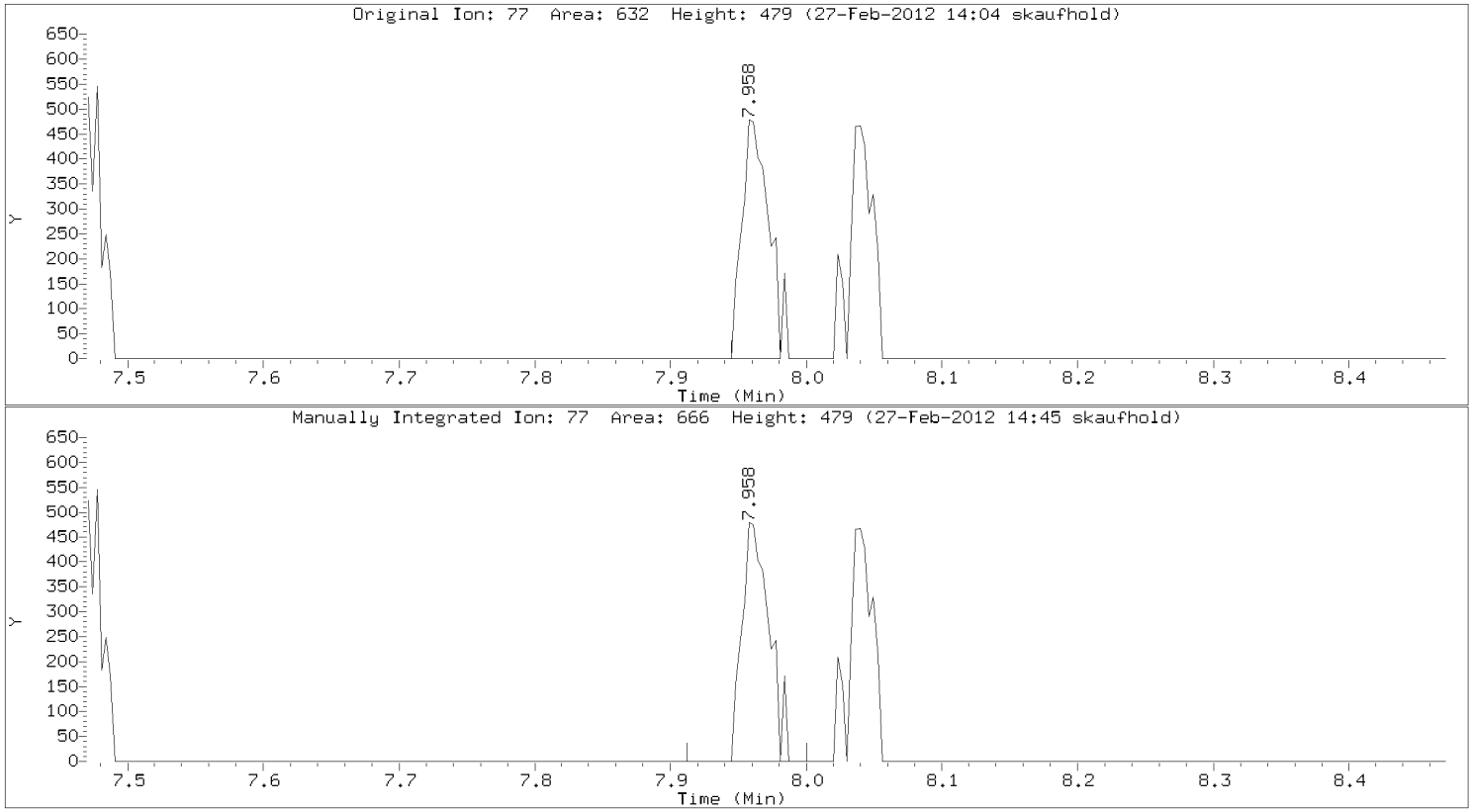


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

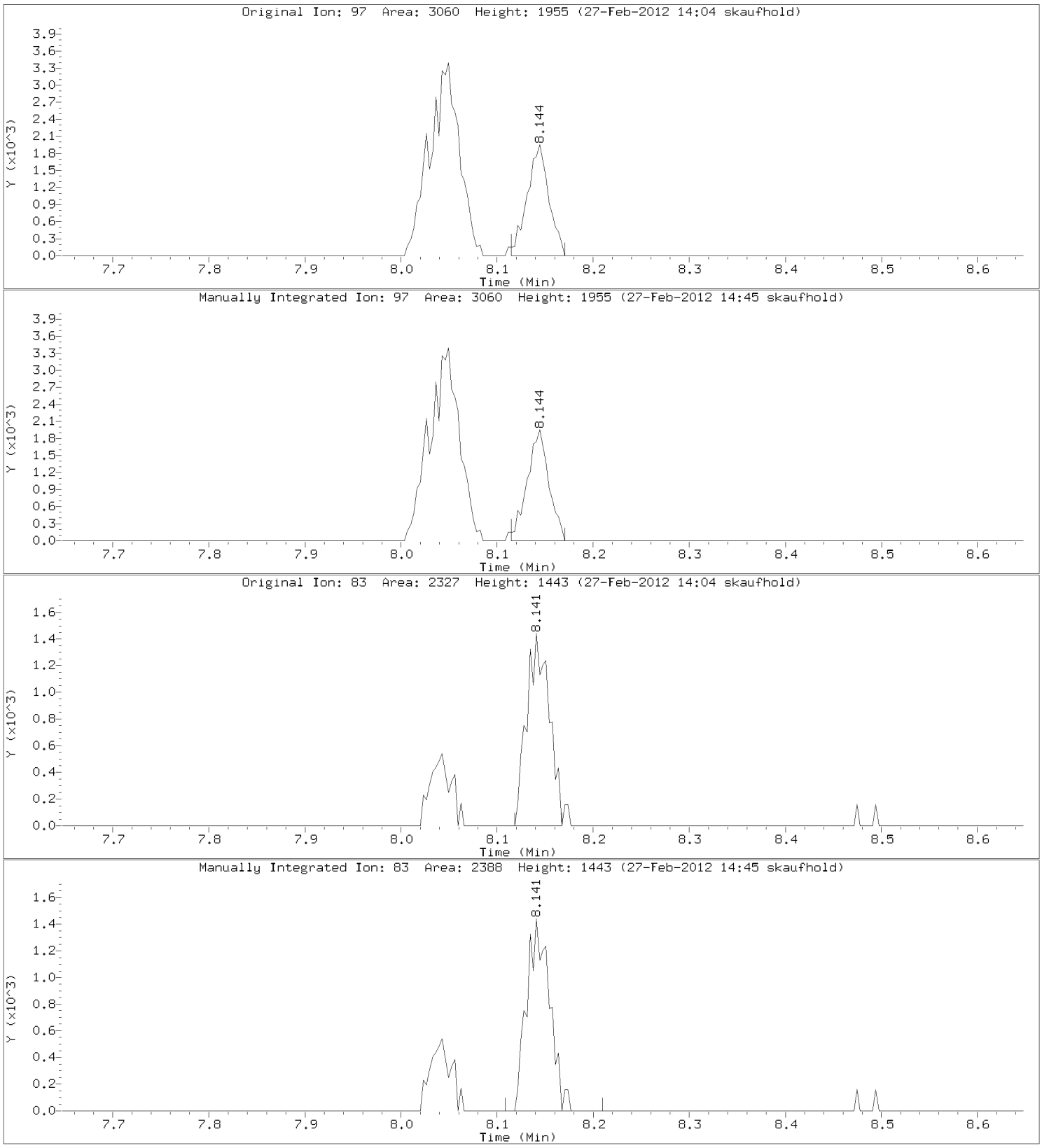


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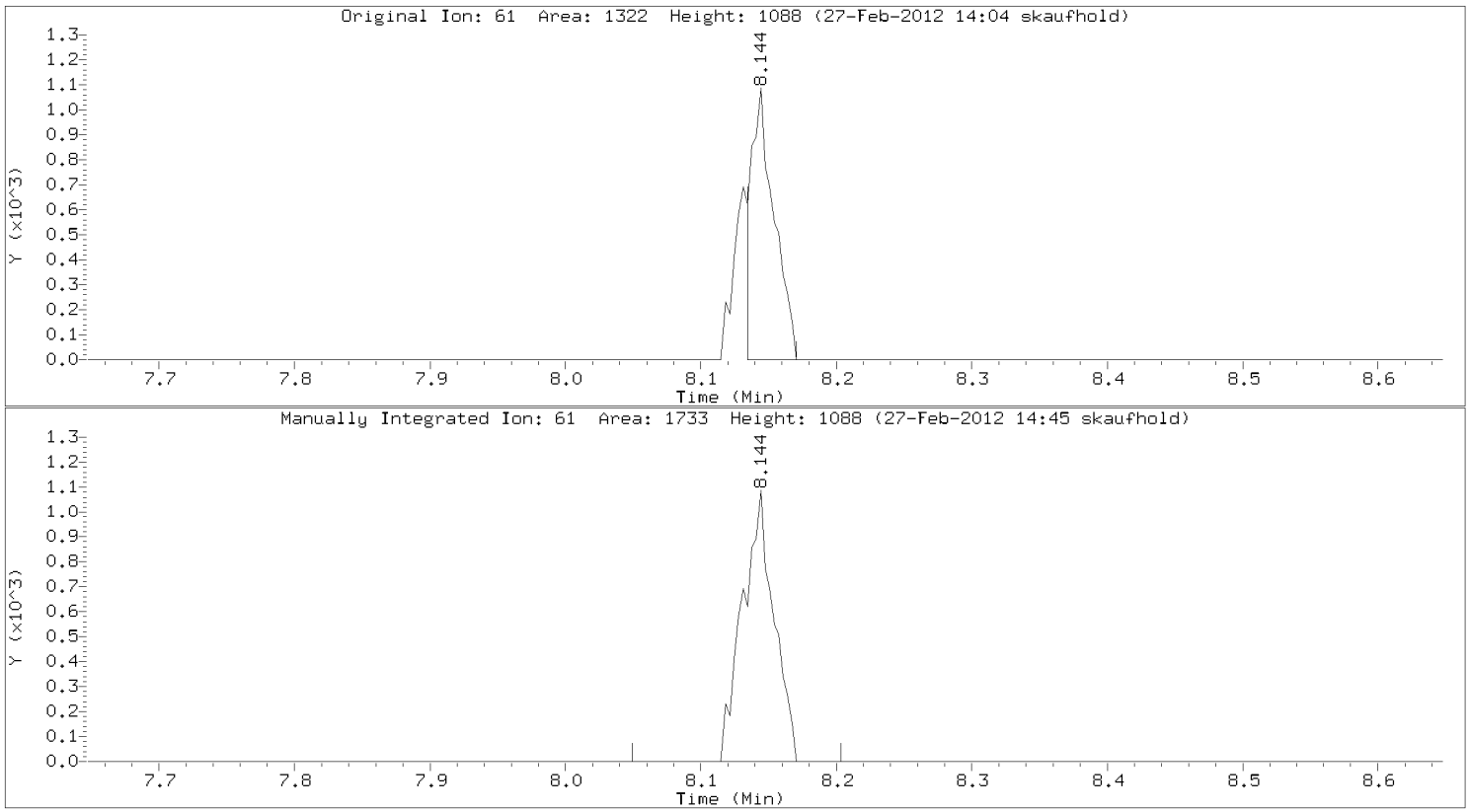


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,1,2-Trichloroethane
CAS Number: 79-00-5

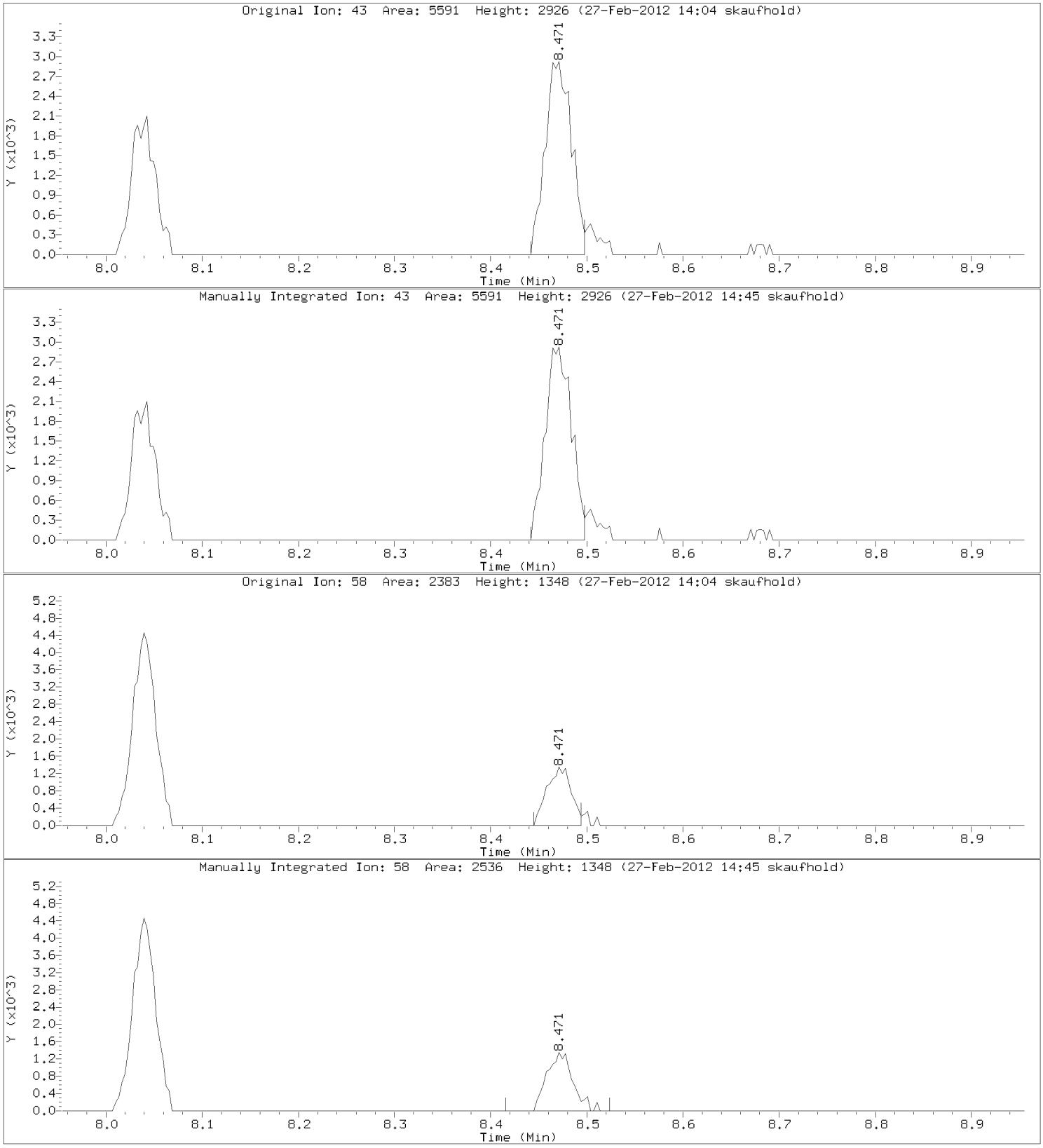


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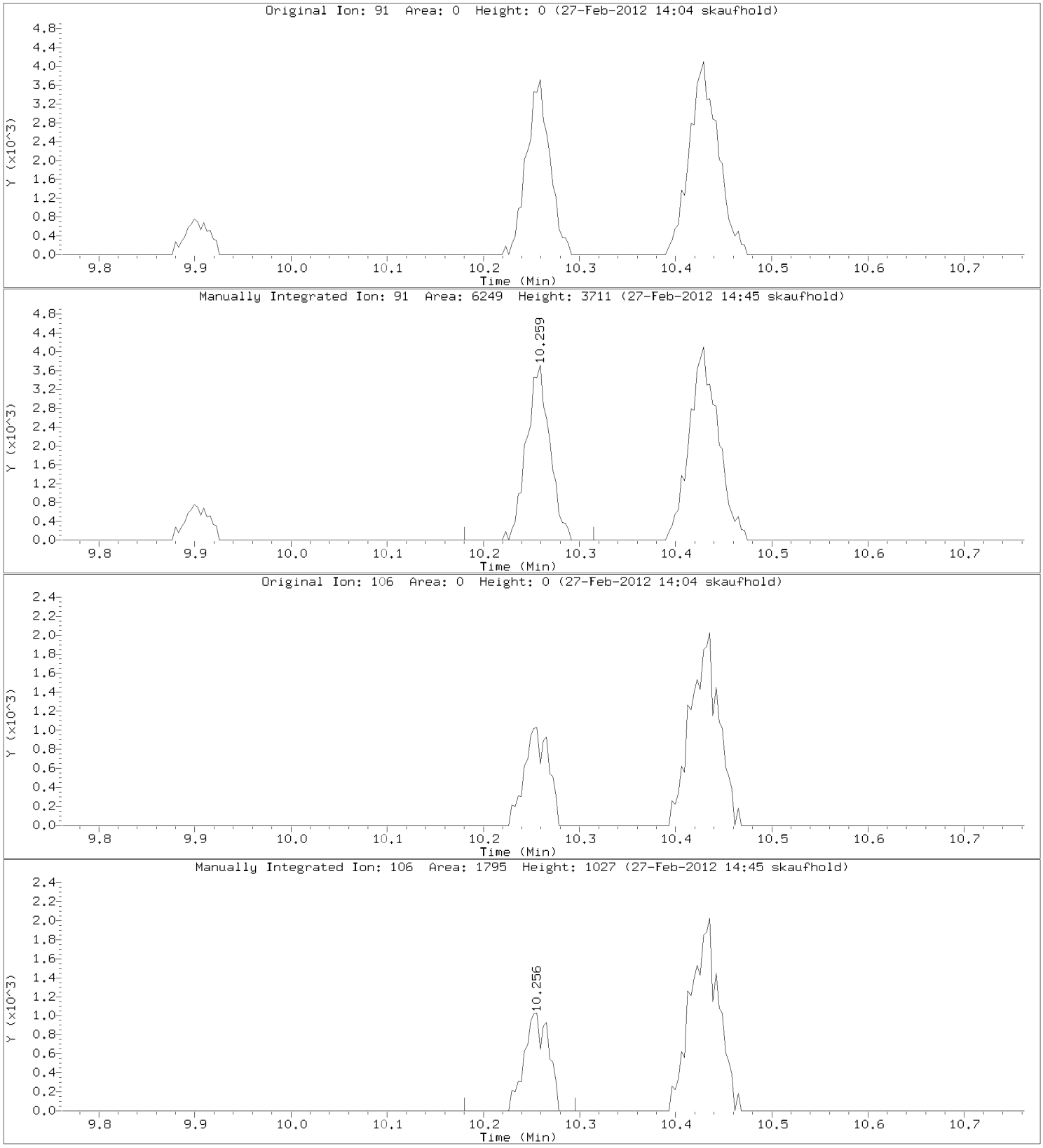
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Methyl Butyl Ketone
CAS Number: 591-78-6



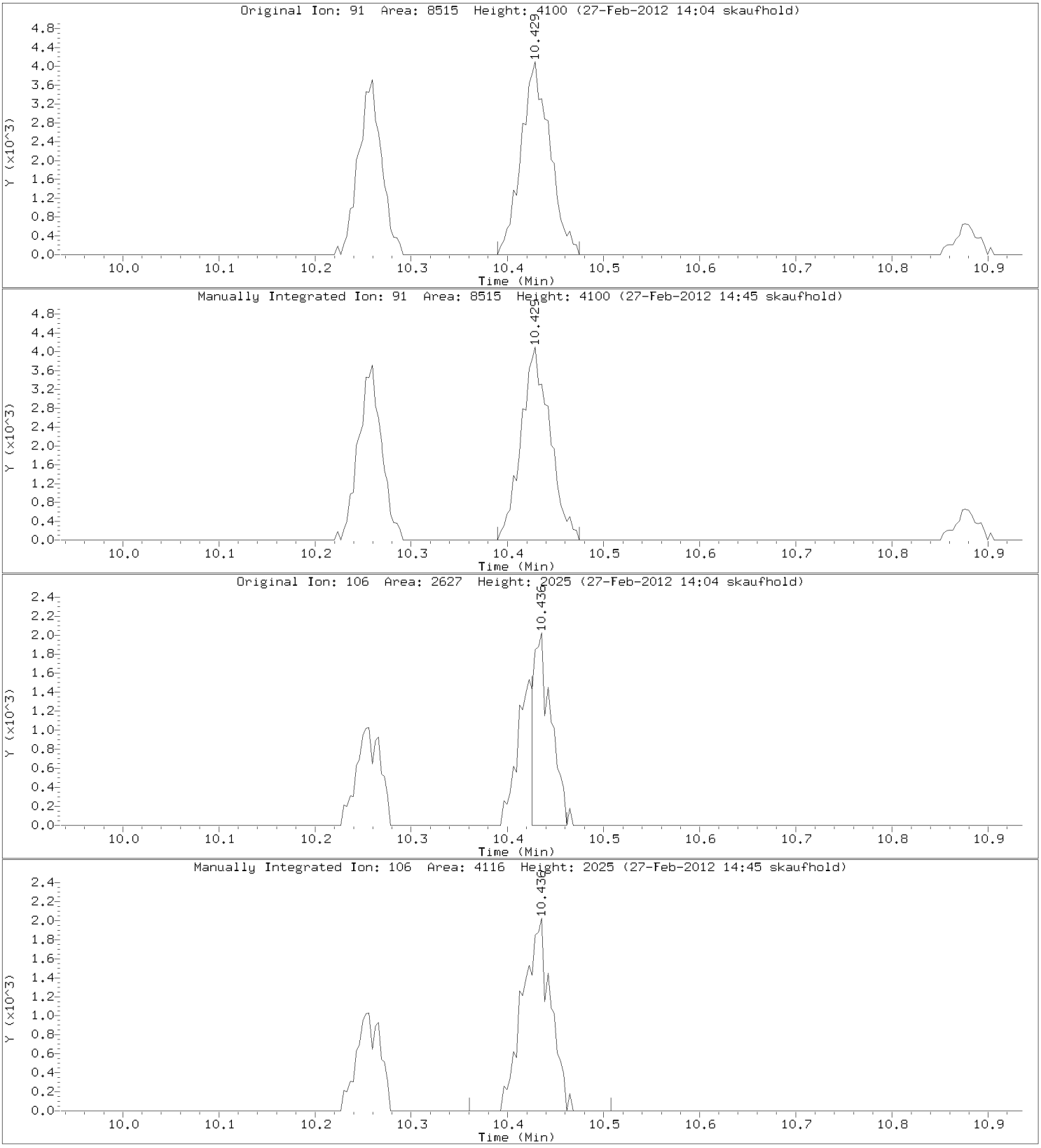
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Ethyl Benzene
CAS Number: 100-41-4



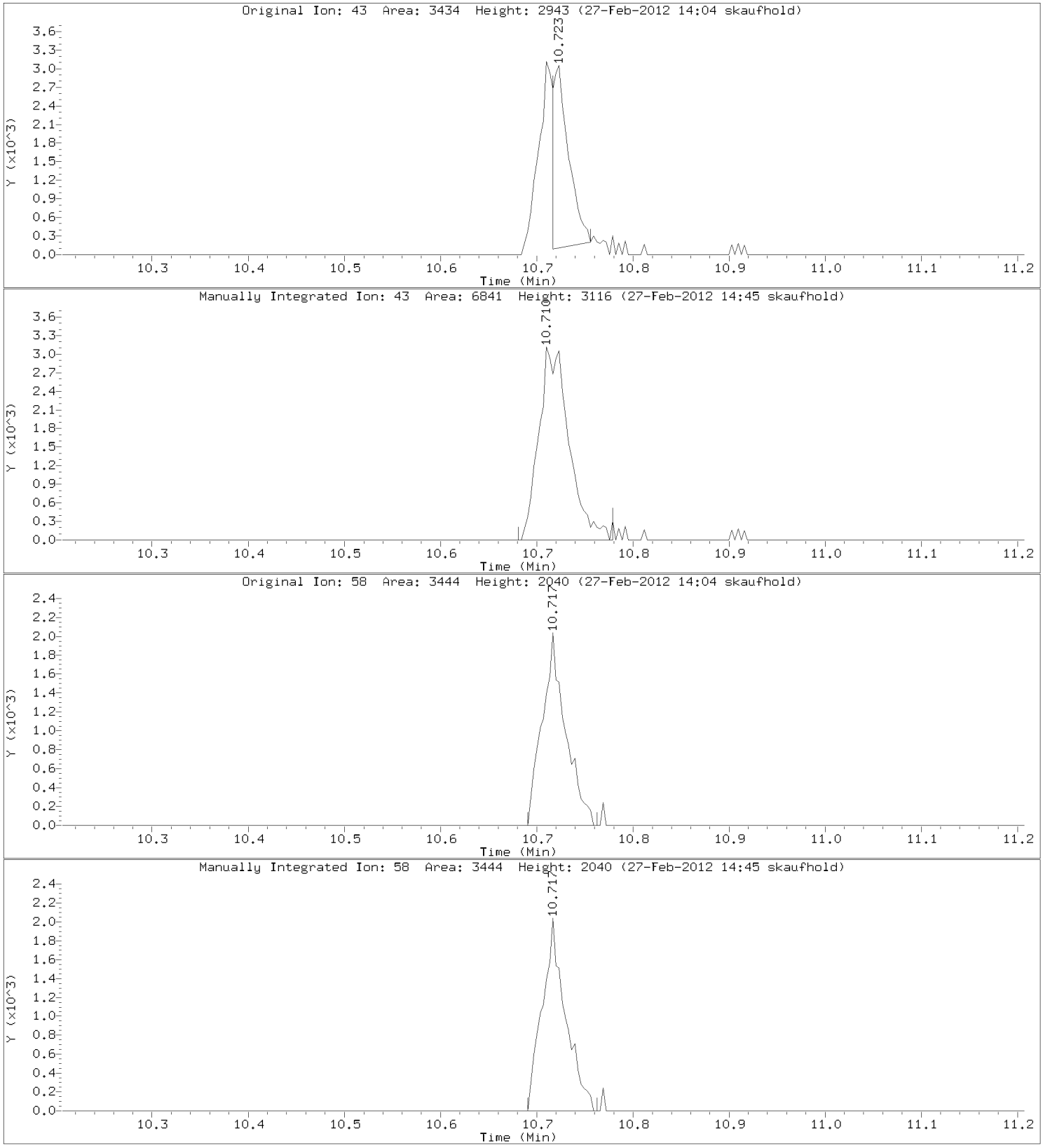
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: m&p-Xylene
CAS Number: 7816-60-0



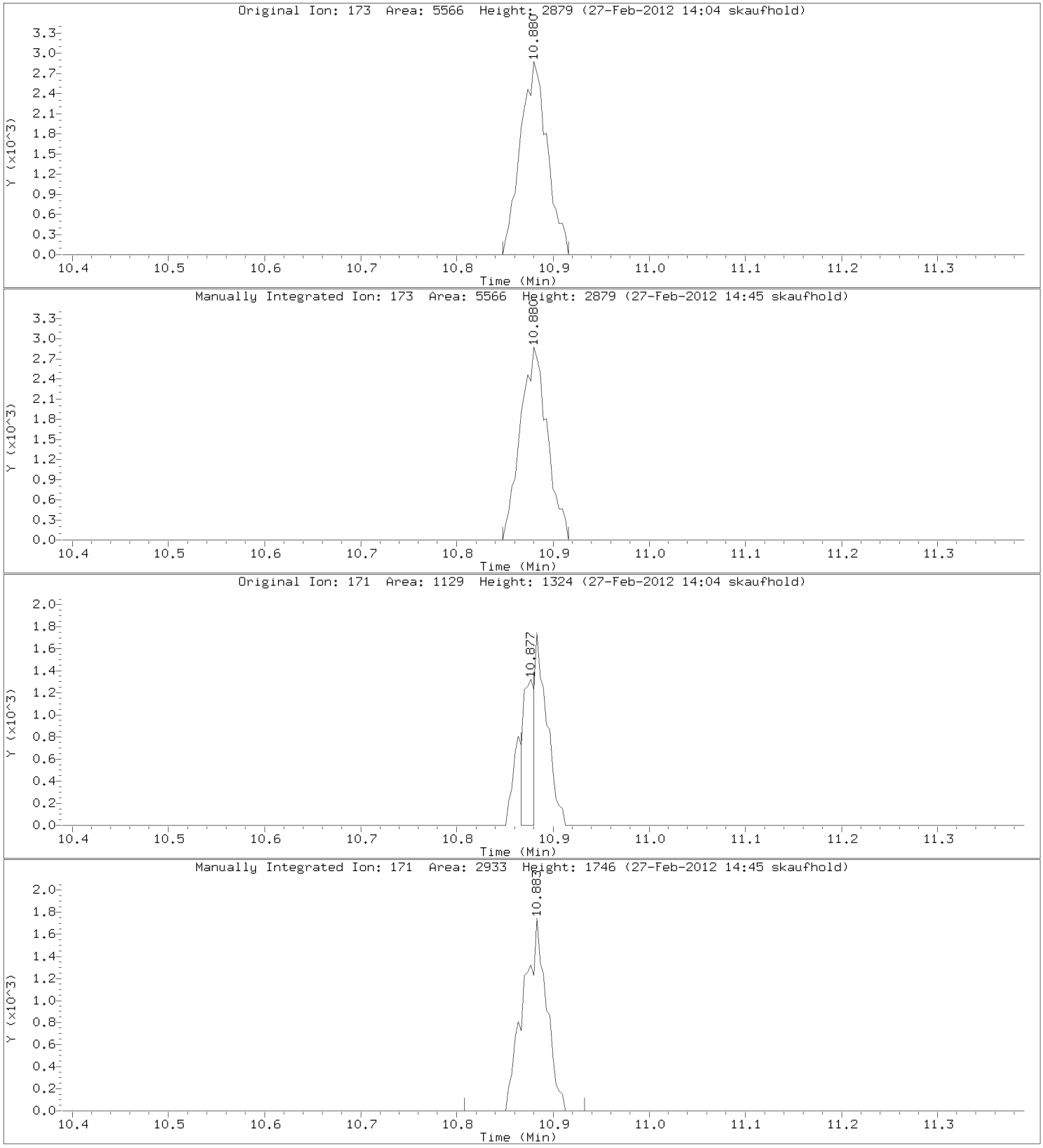
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 2-Heptanone
CAS Number: 110-43-0



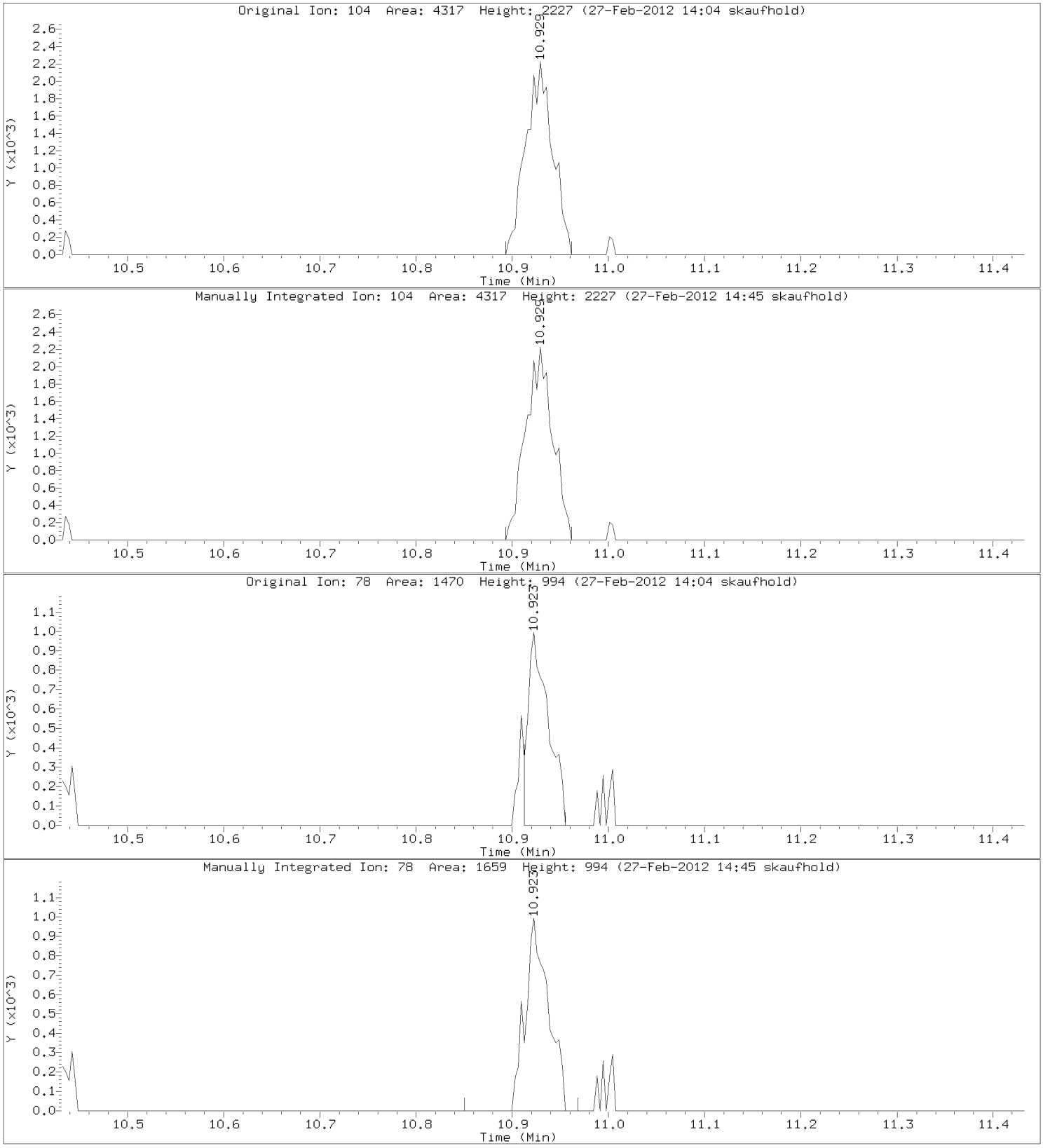
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Bromoform
CAS Number: 75-25-2

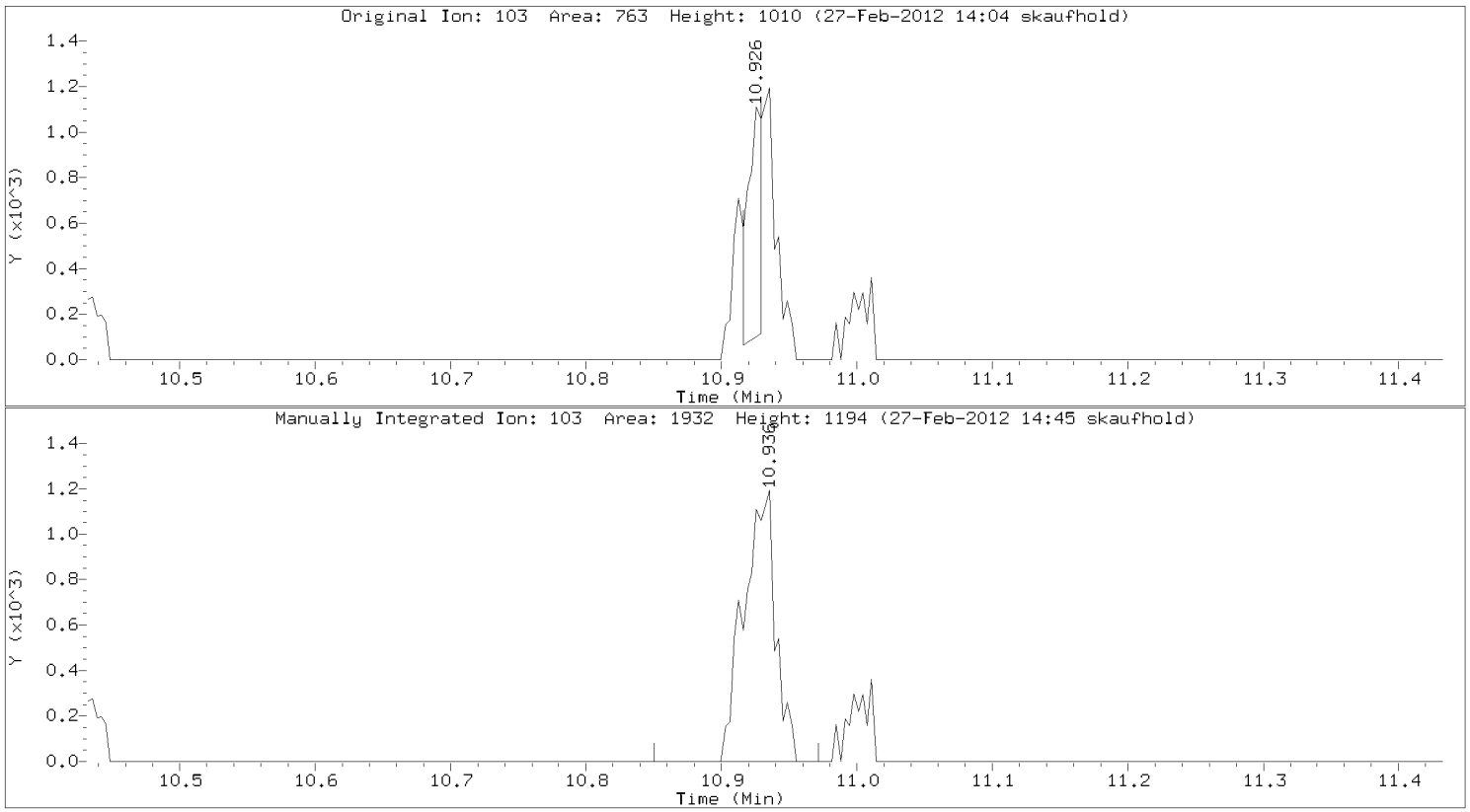


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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Styrene
CAS Number: 100-42-5

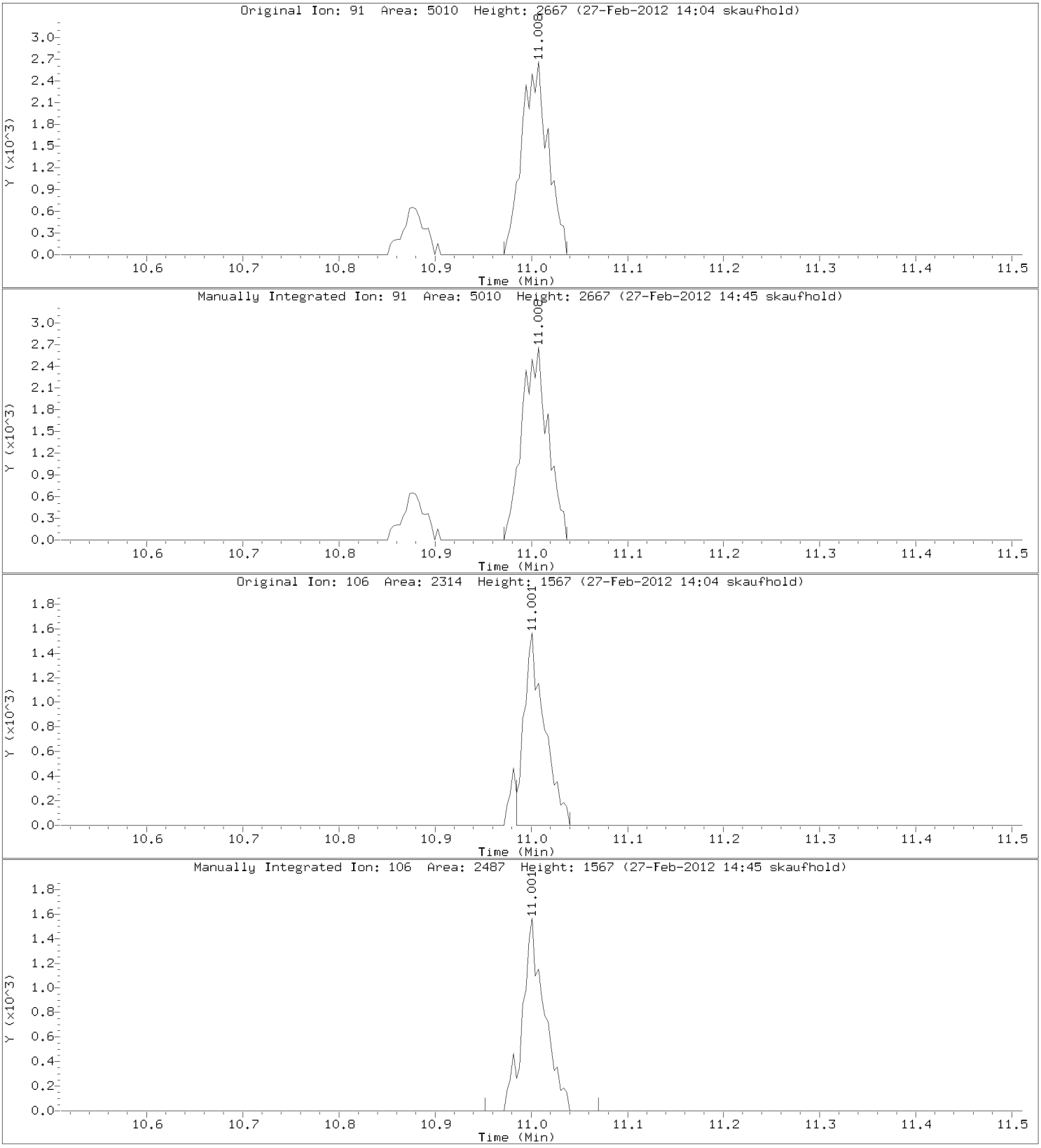


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Lab Sample ID: ICAL 1



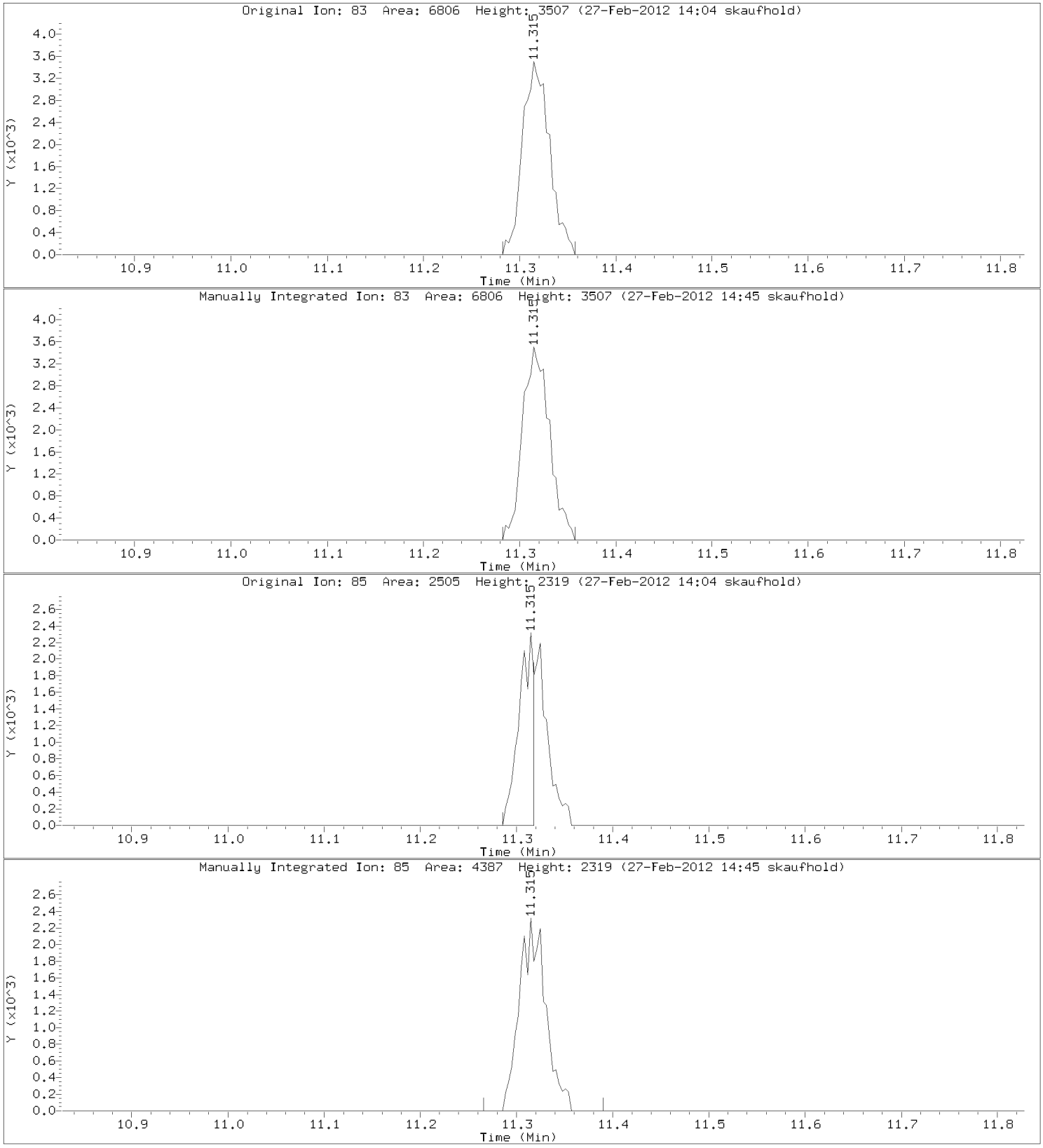
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: o-Xylene
CAS Number: 95-47-6



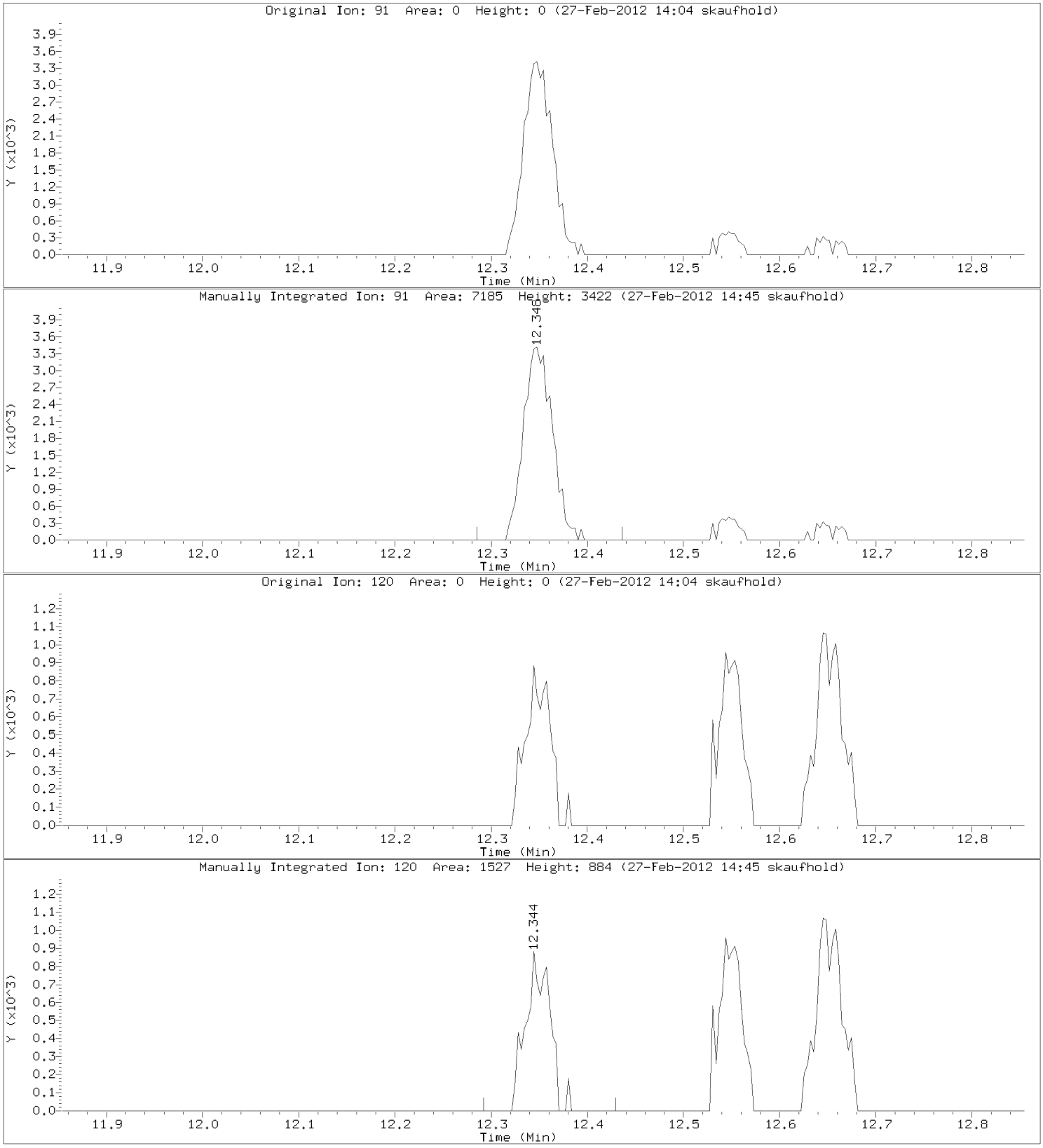
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,1,2,2-Tetrachloroethane
CAS Number: 79-34-5



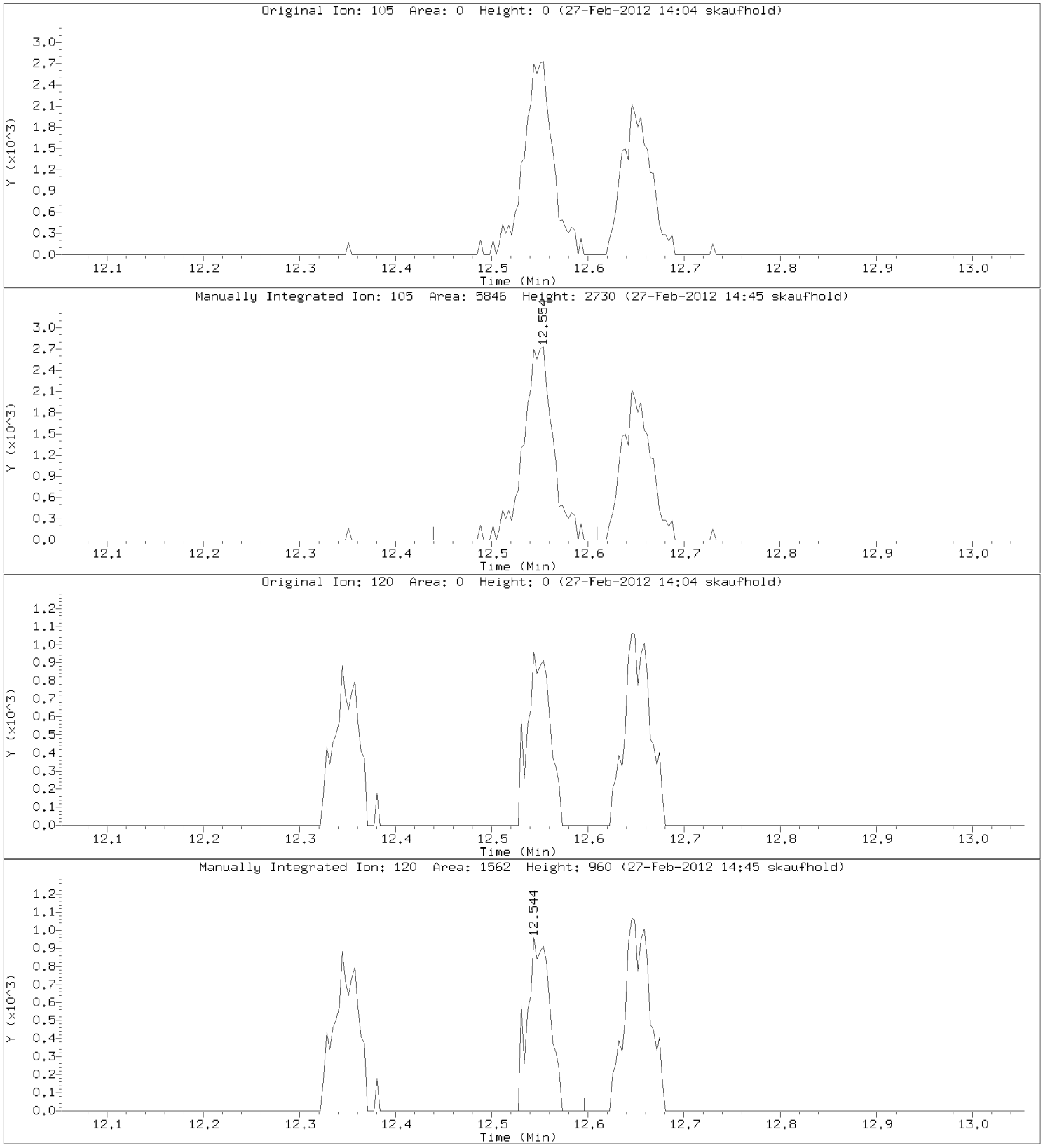
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: N-Propylbenzene
CAS Number: 103-65-1

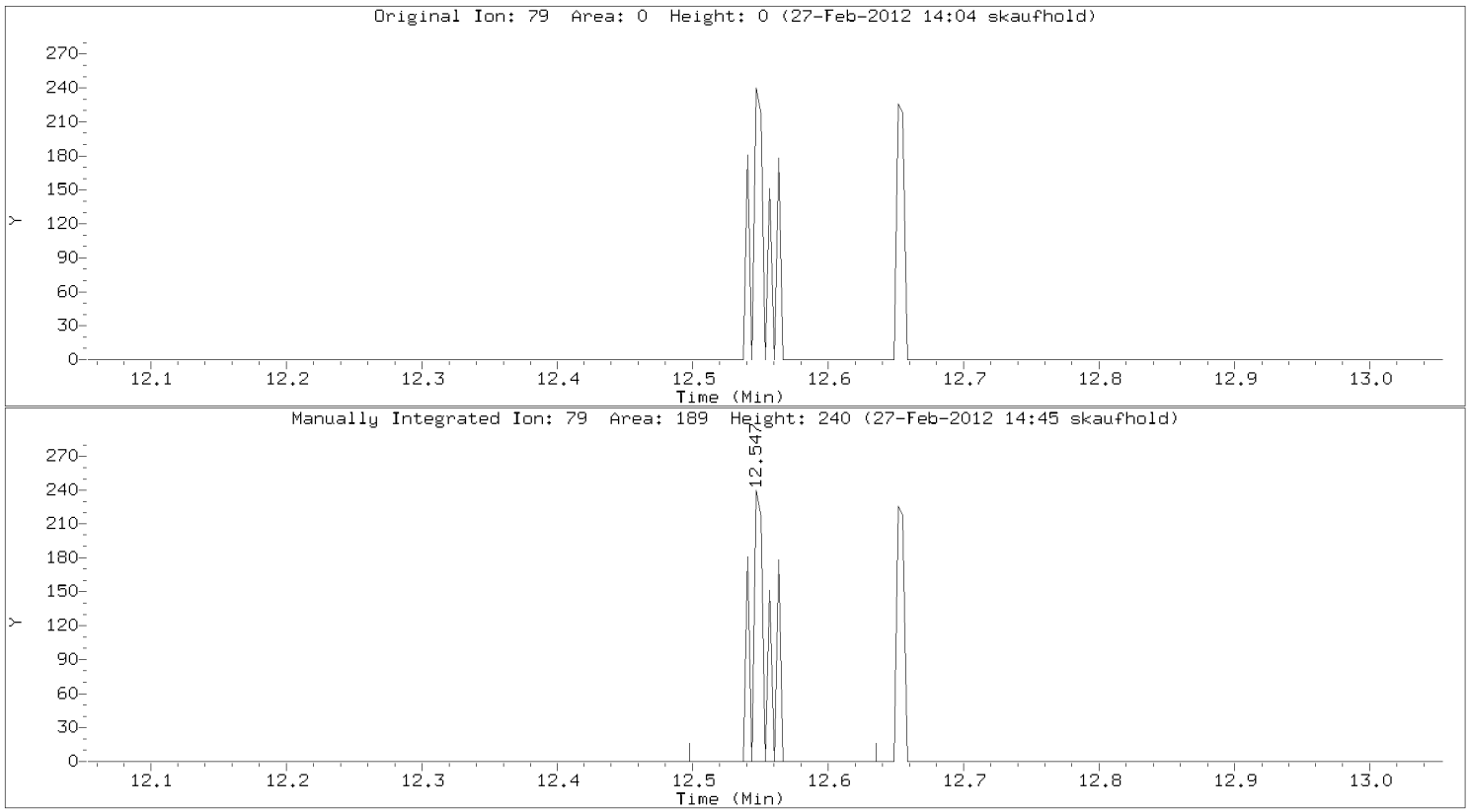


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

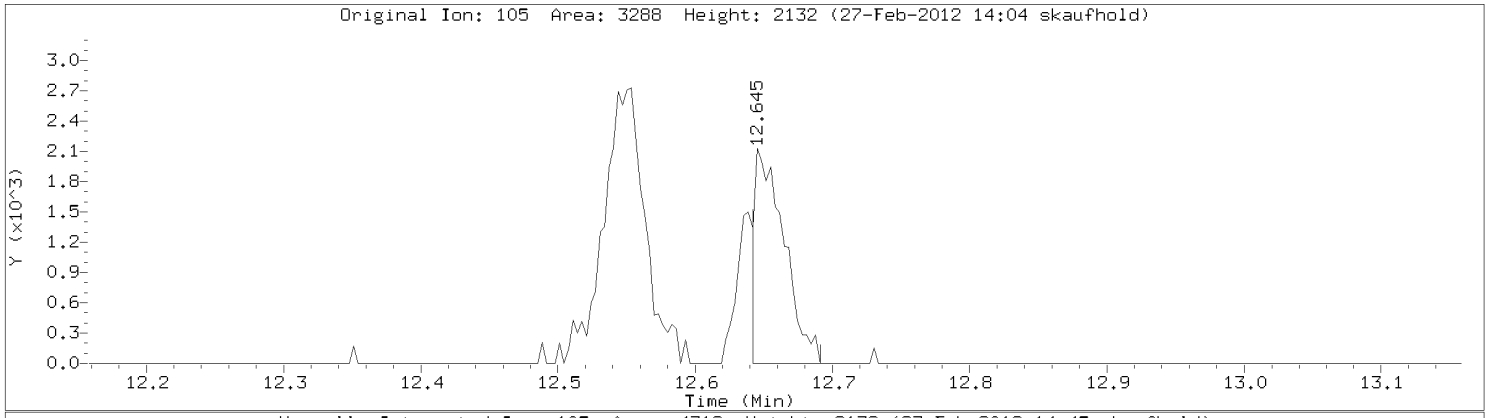


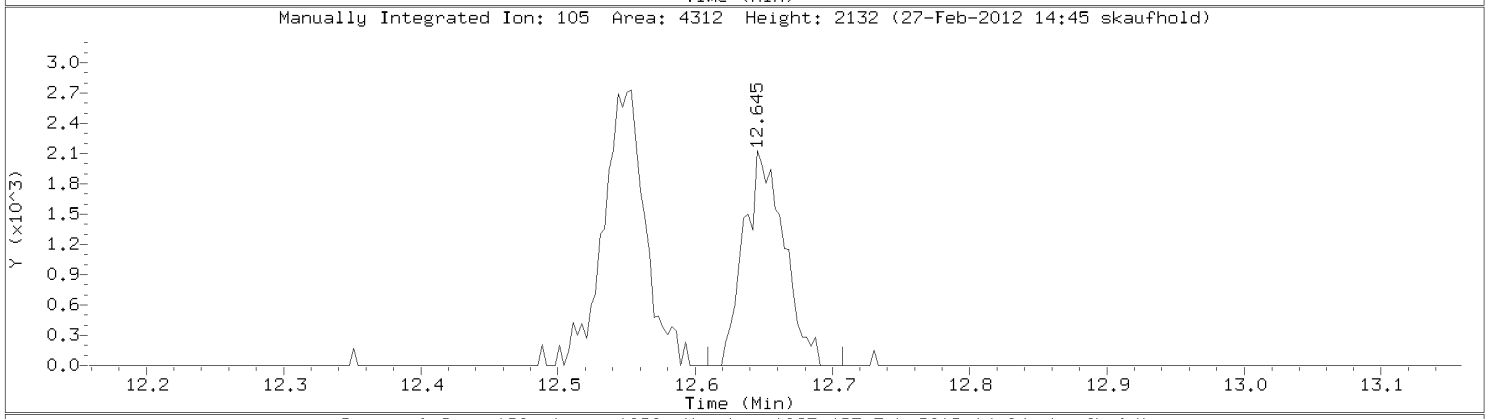
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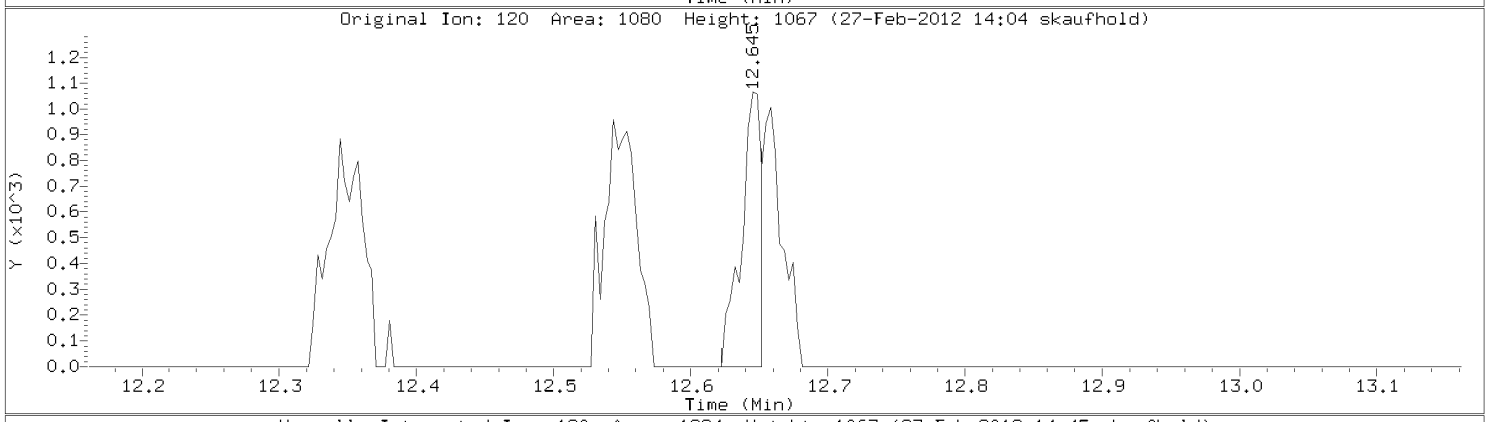


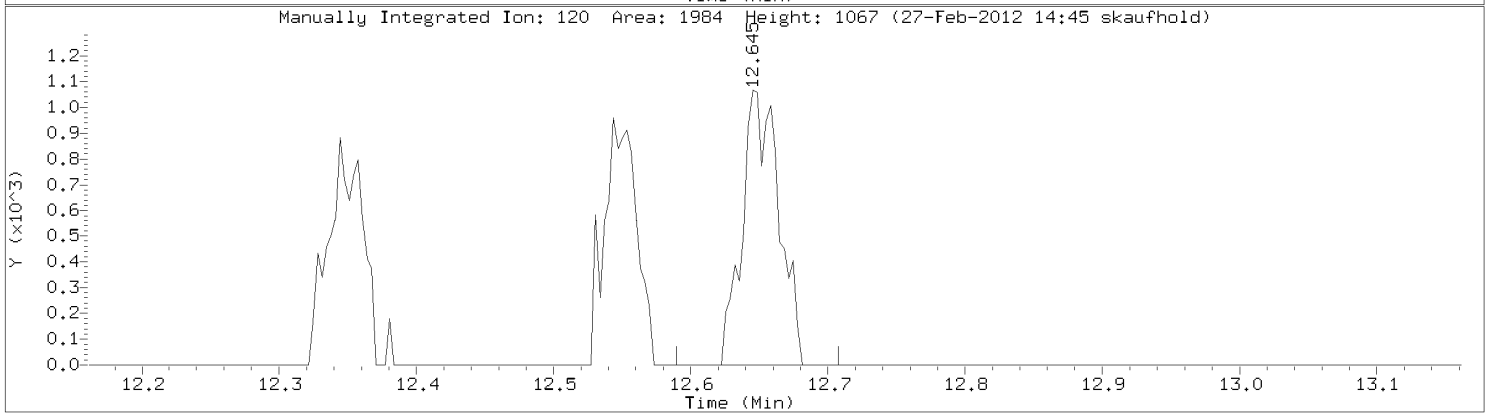
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



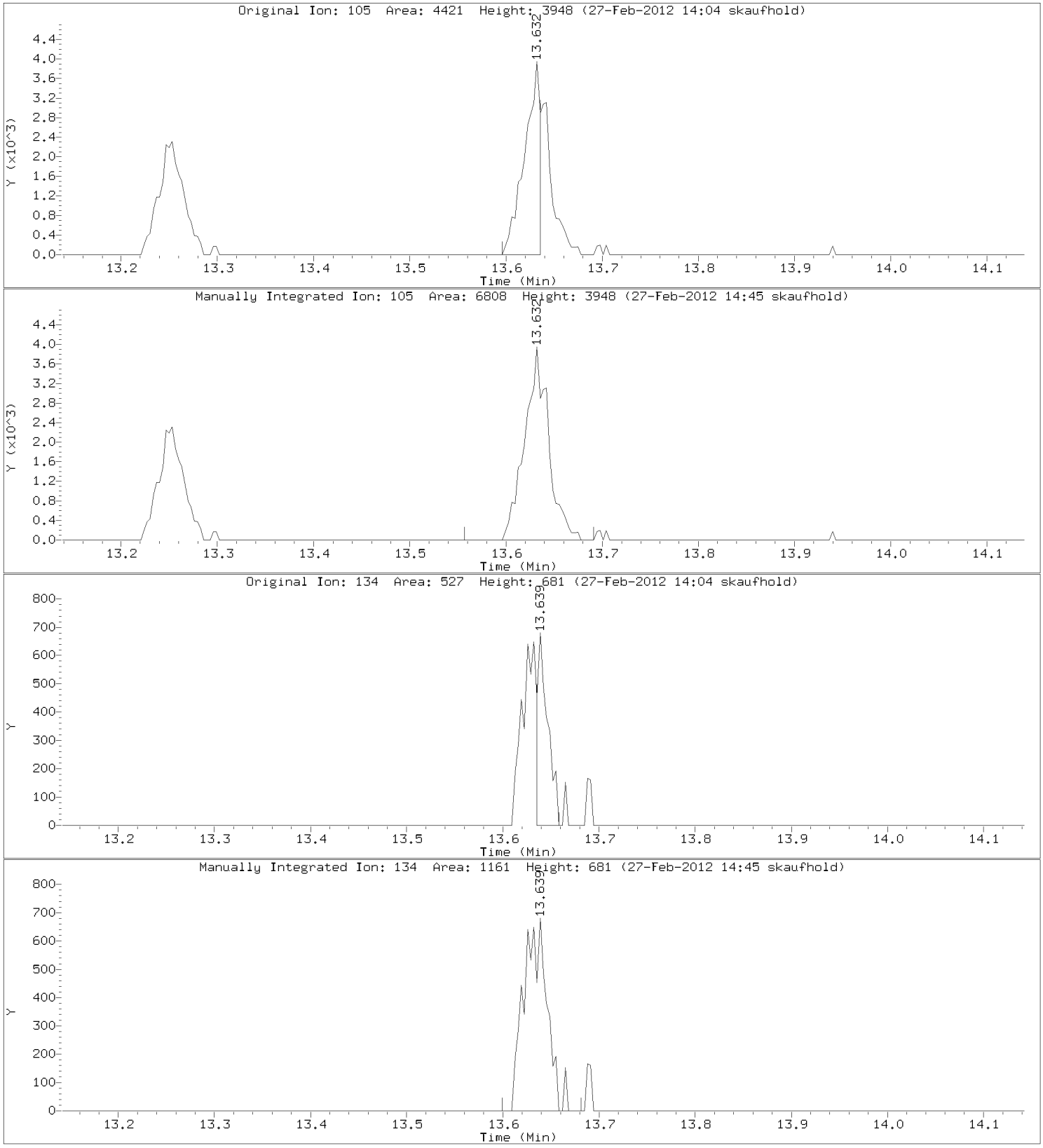






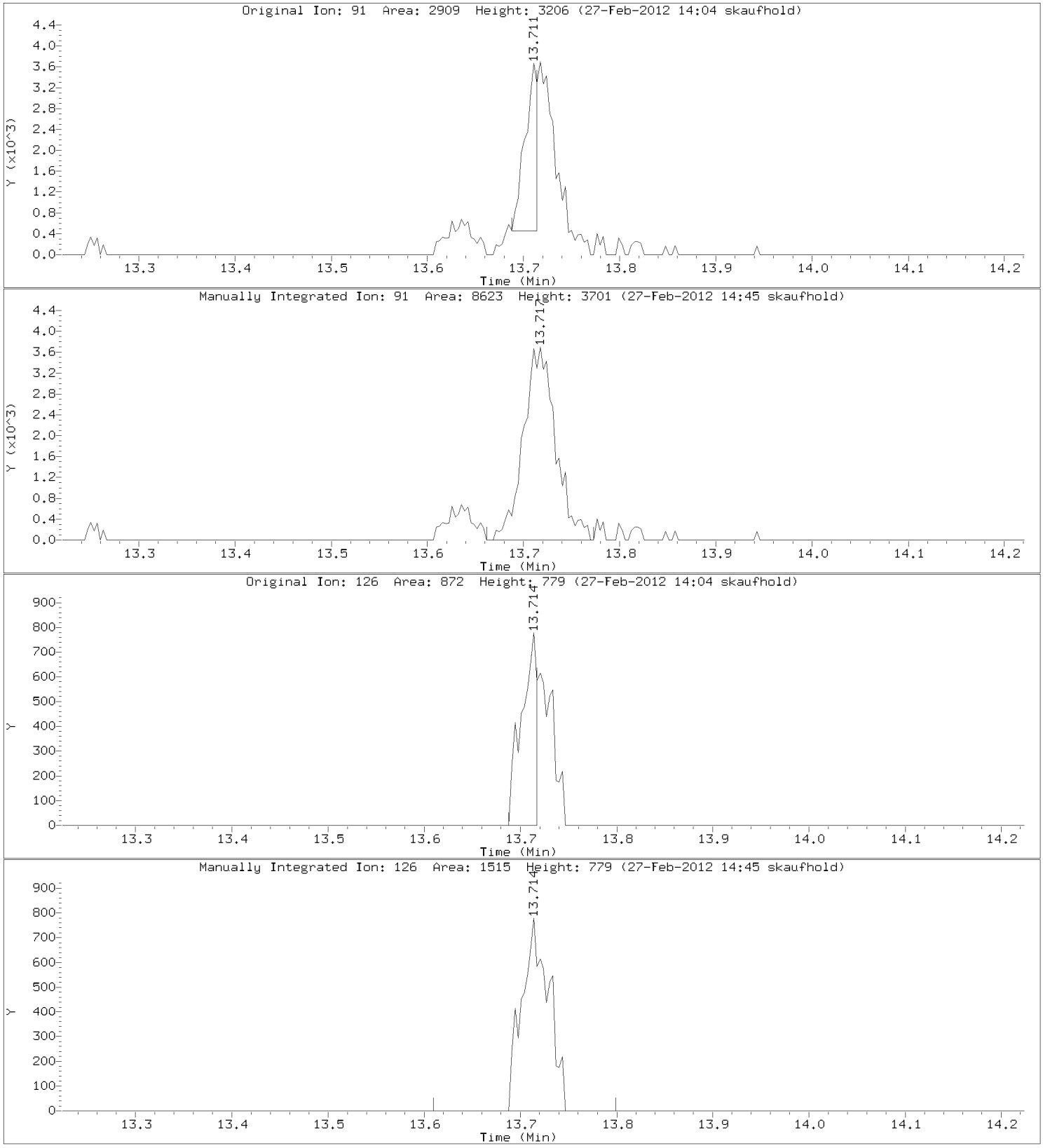
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Sec- Butylbenzene
CAS Number: 135-98-8



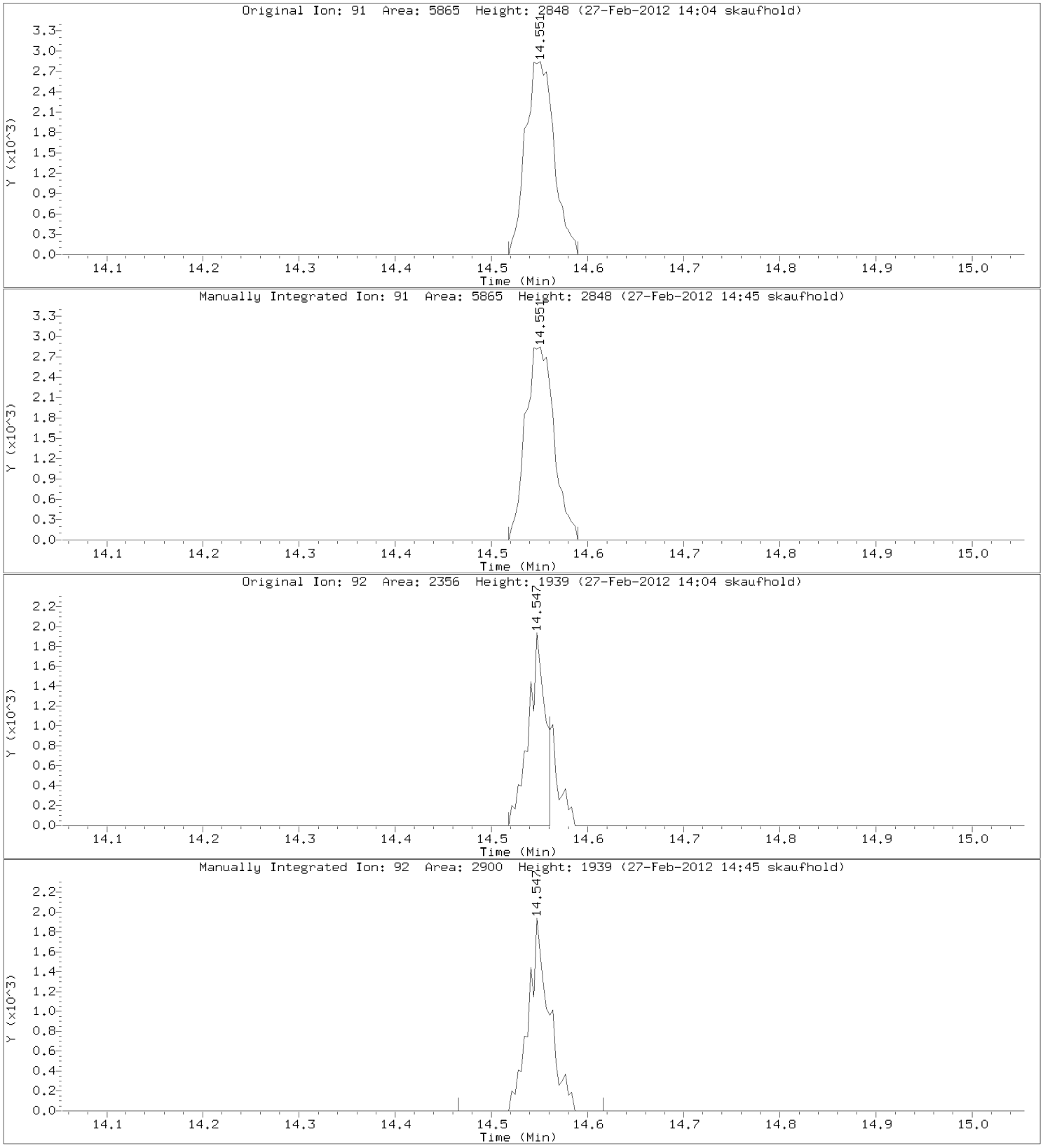
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Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Benzyl Chloride
CAS Number: 100-44-7



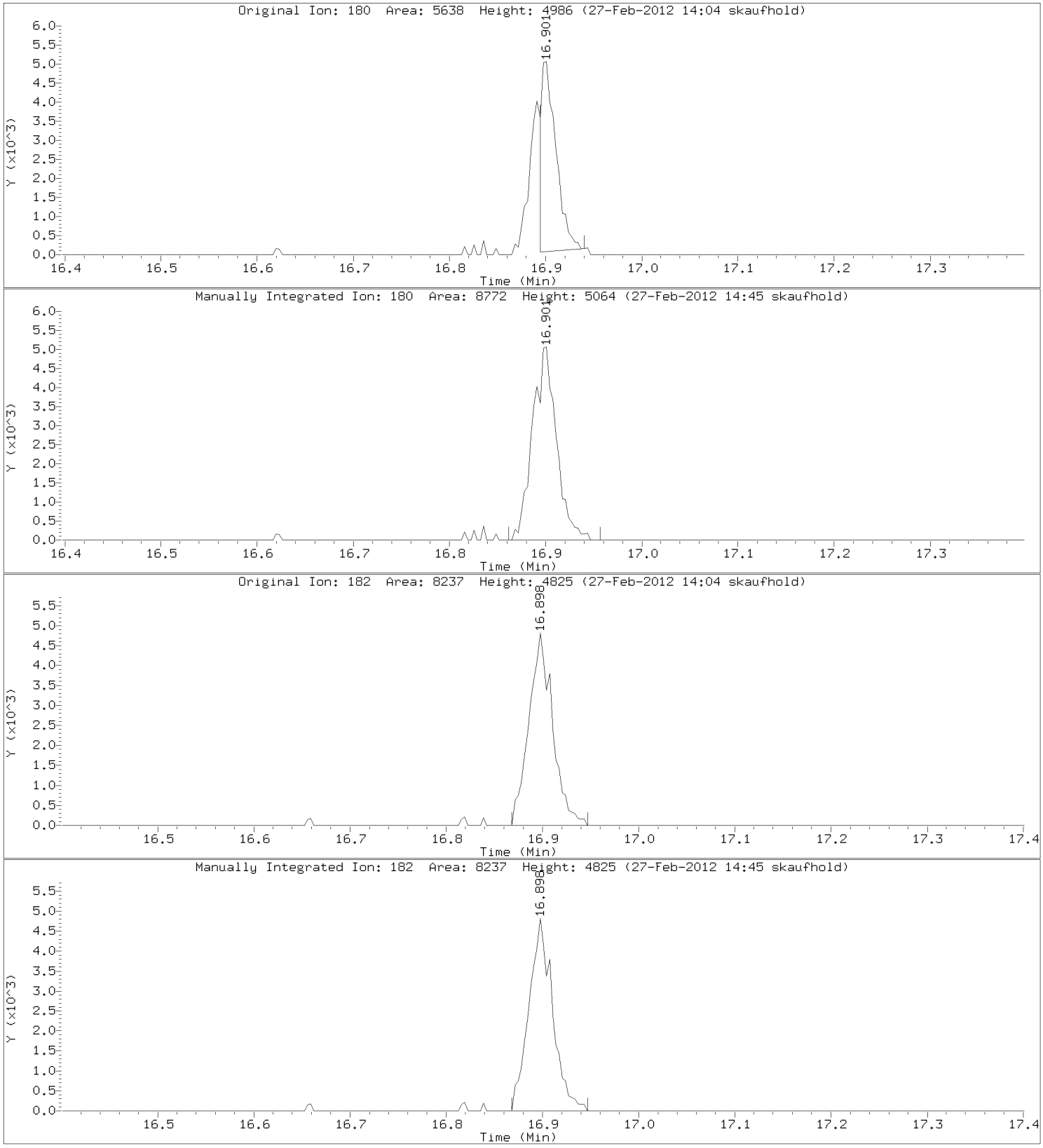
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Lab Sample ID: ICAL 1

Compound: N-Butylbenzene
CAS Number: 104-51-8

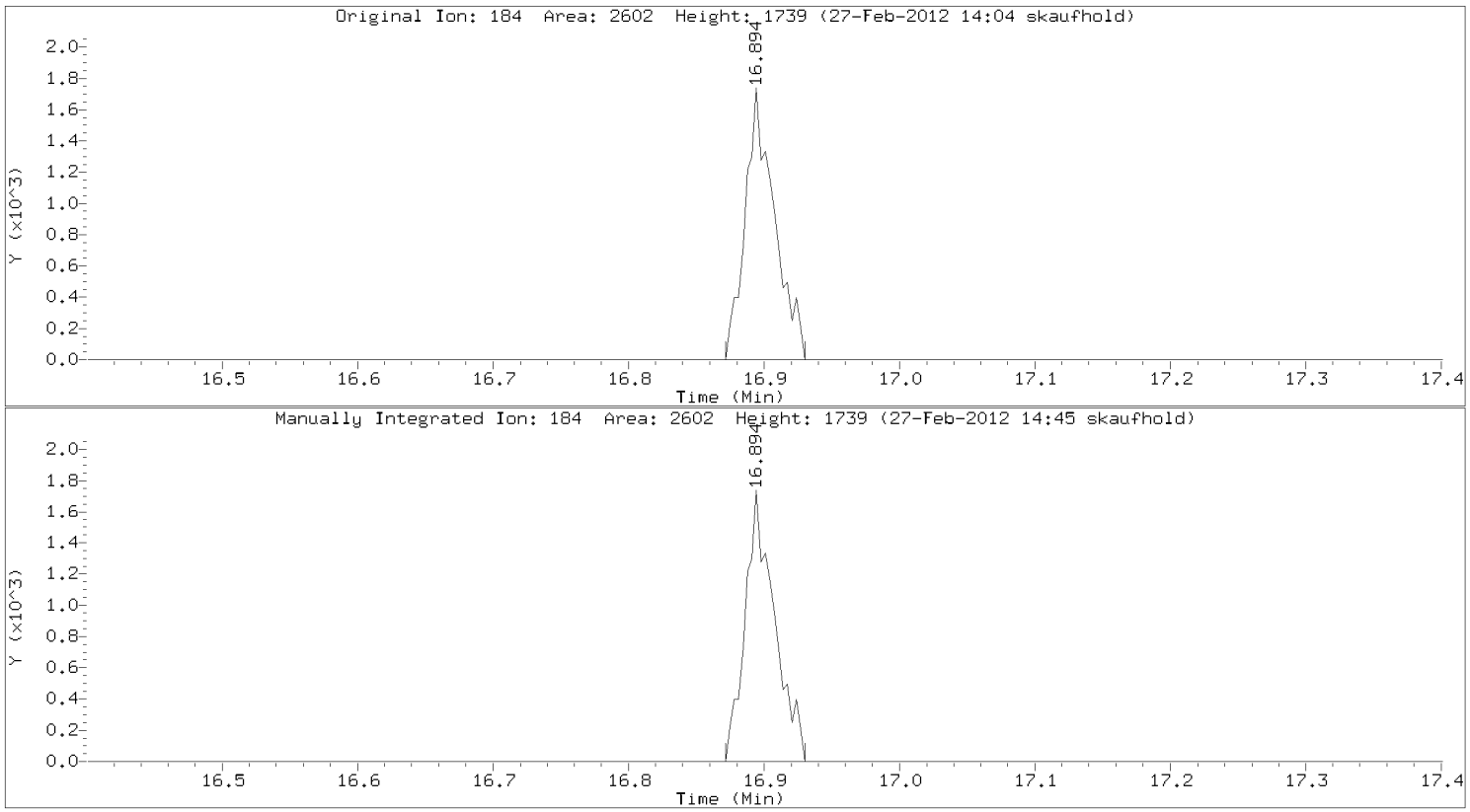


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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

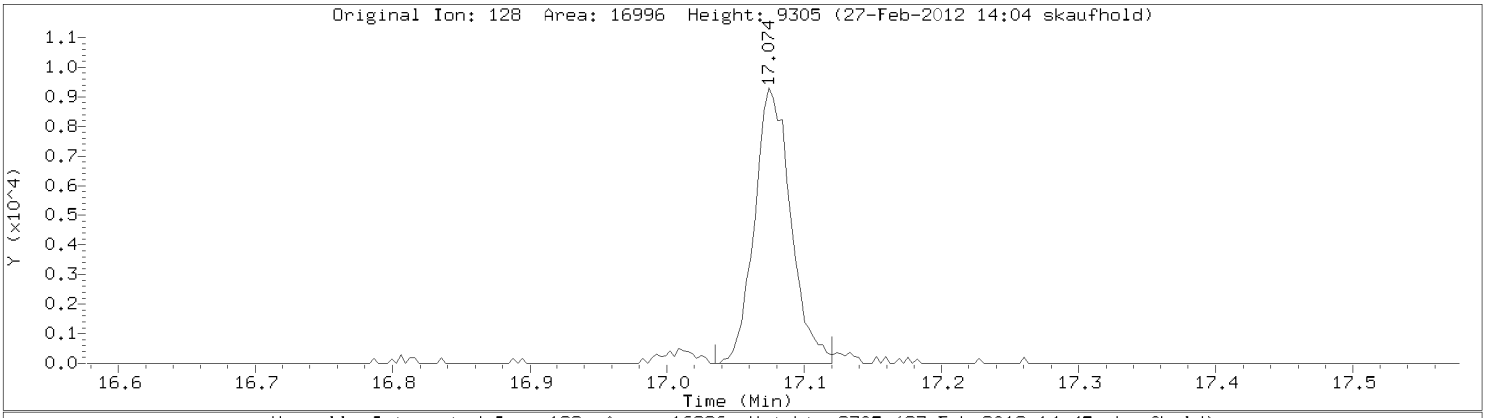


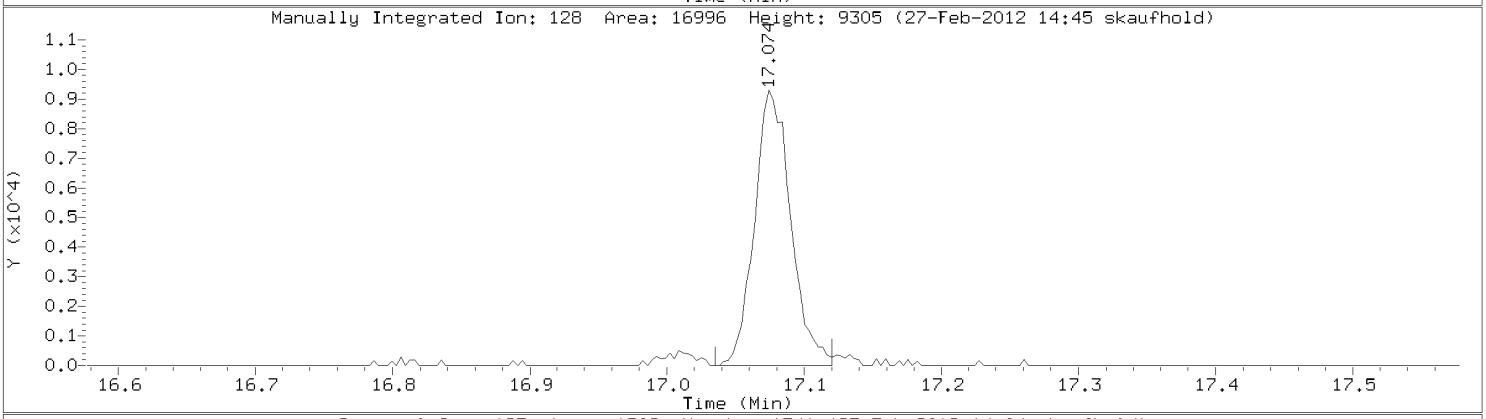
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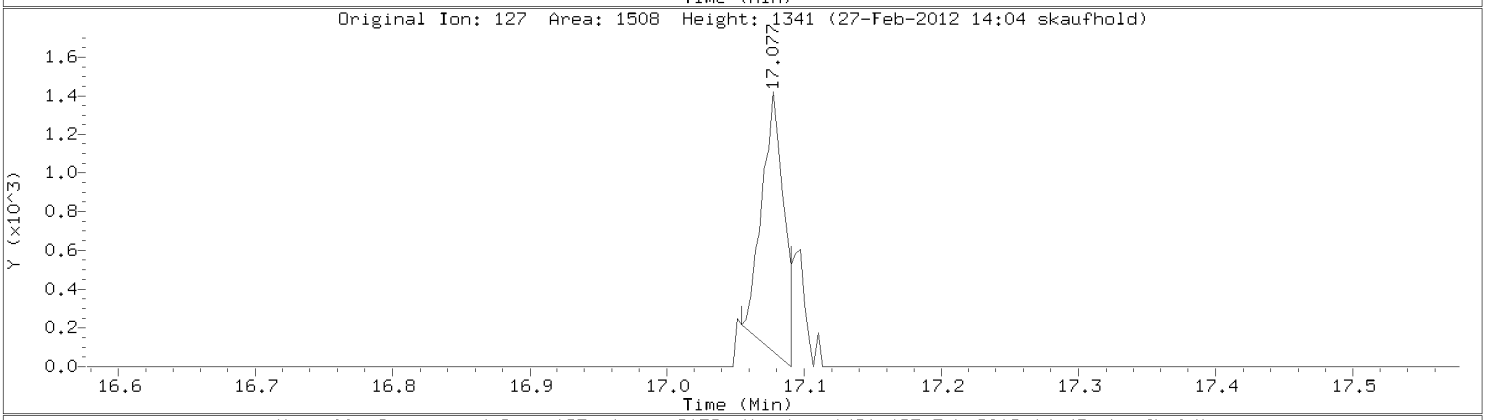


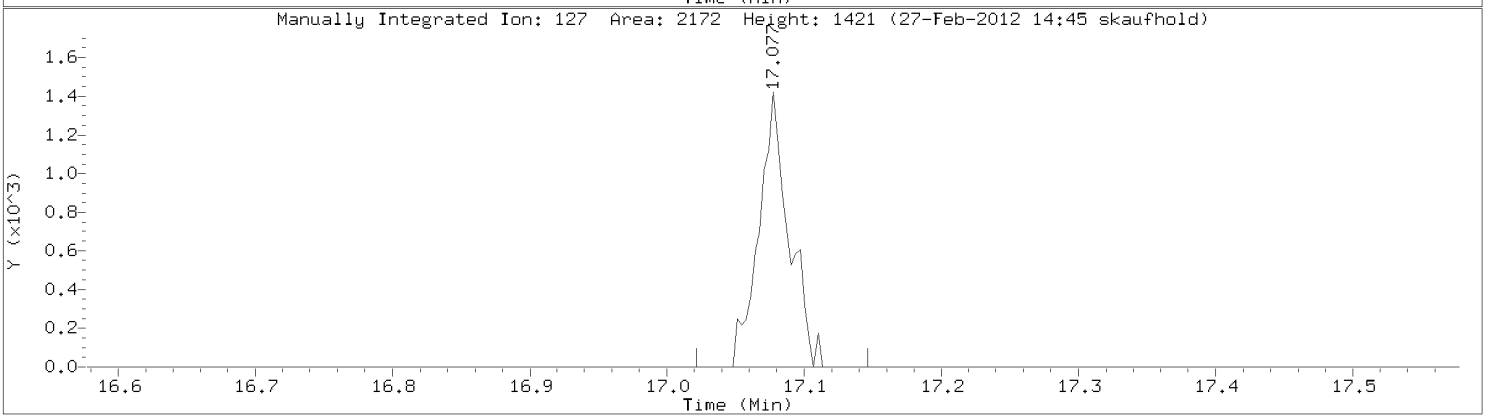
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Injection Date: 27-FEB-2012 12:18
Instrument: 10airD.i
Lab Sample ID: ICAL 1

Compound: Naphthalene
CAS Number: 91-20-3









Data File: \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Lab Smp Id: ICAL 2
Inj Date : 27-FEB-2012 12:47
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 14:45 10airD.i Quant Type: ISTD
Cal Date : 27-FEB-2012 12:18 Cal File: 05805.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Propylene	41	3.054	3.054	(0.488)	2915	0.20000	0.245(M)
2	Dichlorodifluoromethane	85	3.084	3.084	(0.493)	18341	0.20000	0.173
3	Dichlorotetrafluoroethane	85	3.185	3.185	(0.509)	16774	0.20000	0.207
4	Chloromethane	50	3.188	3.188	(0.510)	6560	0.20000	0.194(M)
5	Vinyl chloride	62	3.277	3.277	(0.524)	4809	0.20000	0.182(M)
6	1,3-Butadiene	54	3.322	3.322	(0.531)	3291	0.20000	0.186(M)
7	Bromomethane	94	3.486	3.486	(0.557)	4786	0.20000	0.191
8	Chloroethane	64	3.538	3.538	(0.565)	2026	0.20000	0.188(M)
9	Ethanol	31	3.597	3.597	(0.575)	4472	0.20000	0.0436(M)
10	Vinyl Bromide	106	3.682	3.682	(0.588)	6064	0.20000	0.190
11	Acrolein	56	3.796	3.796	(0.607)	1803	0.20000	0.208(M)
12	Trichlorofluoromethane	101	3.796	3.796	(0.607)	19250	0.20000	0.199
13	Acetone	43	3.855	3.855	(0.616)	16636	0.20000	0.219(M)
14	Isopropyl Alcohol	45	3.885	3.885	(0.621)	12833	0.20000	0.0482(Q)
15	1,1-Dichloroethene	61	4.091	4.091	(0.654)	9719	0.20000	0.188
16	Acrylonitrile	53	4.100	4.100	(0.655)	3770	0.20000	0.131(M)
17	Tert Butyl Alcohol	59	4.126	4.126	(0.659)	16485	0.20000	0.0352
18	Freon 113	101	4.146	4.146	(0.663)	14252	0.20000	0.204(M)
19	Methylene chloride	49	4.205	4.205	(0.672)	7981	0.20000	0.114
20	Allyl Chloride	76	4.225	4.225	(0.675)	2128	0.20000	0.190(M)
21	Carbon Disulfide	76	4.349	4.349	(0.695)	13470	0.20000	0.152
22	trans-1,2-dichloroethene	96	4.545	4.545	(0.726)	6634	0.20000	0.199
23	Methyl Tert Butyl Ether	73	4.604	4.604	(0.736)	13308	0.20000	0.157(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Report Date: 27-Feb-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Vinyl Acetate	43	4.712	4.712	(0.753)	11339	0.20000	0.207(M)
	25 1,1-Dichloroethane	63	4.712	4.712	(0.753)	10994	0.20000	0.199
$	26 Hexane-d14(S)	66	4.833	4.833	(0.772)	320662	10.0000	9.91
	27 Methyl Ethyl Ketone	72	4.931	4.931	(0.788)	3392	0.20000	0.0698(Q)
	28 n-Hexane	57	4.950	4.950	(0.791)	8320	0.20000	0.202(Q)
	29 cis-1,2-Dichloroethene	96	5.114	5.114	(0.817)	5389	0.20000	0.179
	30 Ethyl Acetate	43	5.146	5.146	(0.822)	14500	0.20000	0.0806(QM)
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.257	5.257	(0.840)	14724	0.20000	0.198
	33 Tetrahydrofuran	42	5.493	5.493	(0.878)	4220	0.20000	0.179
	34 1,1,1-Trichloroethane	97	5.751	5.751	(0.919)	13973	0.20000	0.184
	35 1,2-Dichloroethane	62	5.771	5.771	(0.922)	9522	0.20000	0.178(M)
	36 Benzene	78	6.048	6.048	(0.967)	15331	0.20000	0.183
	37 Carbon tetrachloride	117	6.068	6.068	(0.970)	15593	0.20000	0.184
	38 Cyclohexane	56	6.071	6.071	(0.970)	5369	0.20000	0.181(M)
*	39 1,4-Difluorobenzene	114	6.258	6.258	(1.000)	1365825	10.0000	
	40 2,2,4-Trimethylpentane	57	6.441	6.441	(1.029)	19285	0.20000	0.189(M)
	41 Heptane	43	6.611	6.611	(1.056)	6895	0.20000	0.188
	42 1,2-Dichloropropane	63	6.683	6.683	(1.068)	5903	0.20000	0.197(M)
	43 Trichloroethene	130	6.709	6.709	(1.072)	9506	0.20000	0.211
	44 1,4-Dioxane	88	6.875	6.875	(1.099)	4296	0.20000	(QM)
	45 Bromodichloromethane	83	6.830	6.830	(1.091)	13248	0.20000	0.202
	46 Methyl Isobutyl Ketone	43	7.431	7.431	(1.188)	13535	0.20000	(M)
	47 cis-1,3-Dichloropropene	75	7.470	7.470	(1.194)	7405	0.20000	0.216
	48 trans-1,3-Dichloropropene	75	7.964	7.964	(1.273)	4131	0.20000	0.276(M)
$	49 Toluene-d8 (S)	98	8.042	8.042	(1.285)	1119937	10.0000	9.86
	50 Toluene	91	8.134	8.134	(1.300)	18447	0.20000	0.213
	51 1,1,2-Trichloroethane	97	8.147	8.147	(1.302)	8120	0.20000	0.206
	52 Methyl Butyl Ketone	43	8.467	8.467	(0.855)	15735	0.20000	
	53 Dibromochloromethane	129	8.765	8.765	(0.885)	11801	0.20000	0.275
	54 1,2-Dibromoethane	107	9.036	9.036	(0.912)	9988	0.20000	0.267
	55 Tetrachloroethene	166	9.124	9.124	(0.921)	9872	0.20000	0.271
*	56 Chlorobenzene - d5	117	9.905	9.905	(1.000)	754850	10.0000	
	57 Chlorobenzene	112	9.958	9.958	(1.005)	16114	0.20000	0.190
	58 Ethyl Benzene	91	10.258	10.258	(1.036)	13096	0.20000	0.268
	59 m&p-Xylene	91	10.432	10.432	(1.053)	23488	0.40000	0.499
	60 2-Heptanone	43	10.713	10.713	(1.712)	24475	0.20000	
	61 Bromoform	173	10.879	10.879	(1.098)	10973	0.20000	0.276
	62 Styrene	104	10.925	10.925	(1.103)	9655	0.20000	0.257
	63 o-Xylene	91	11.004	11.004	(1.111)	12202	0.20000	0.238
	64 1,1,2,2-Tetrachloroethane	83	11.317	11.317	(1.143)	16767	0.20000	0.199
	65 Isopropylbenzene	105	11.687	11.687	(1.180)	25570	0.20000	0.254
	66 N-Propylbenzene	91	12.347	12.347	(1.246)	14040	0.20000	0.254(M)
	67 4-Ethyltoluene	105	12.550	12.550	(1.267)	10400	0.20000	0.240(M)
	68 1,3,5-Trimethylbenzene	105	12.654	12.654	(1.278)	11585	0.20000	0.248(M)
	69 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.338)	7552	0.20000	0.261(M)
	70 1,3-Dichlorobenzene	146	13.609	13.609	(1.374)	11673	0.20000	0.268(M)
	71 Sec- Butylbenzene	105	13.635	13.635	(1.376)	16418	0.20000	0.217(M)
$	72 1,4-dichlorobenzene-d4 (S)	150	13.691	13.691	(1.382)	306518	10.0000	9.06
	73 Benzyl Chloride	91	13.710	13.710	(1.384)	8794	0.20000	0.313(M)
	74 1,4-Dichlorobenzene	146	13.740	13.740	(1.387)	16135	0.20000	0.247(QM)
	75 1,2-Dichlorobenzene	146	14.279	14.279	(1.441)	11919	0.20000	0.261(M)
	76 N-Butylbenzene	91	14.553	14.553	(1.469)	10929	0.20000	0.197
	77 1,2,4-Trichlorobenzene	180	16.897	16.897	(1.706)	11330	0.20000	0.0584

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Report Date: 27-Feb-2012 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78 Naphthalene	128	17.074	17.074	(1.724)	29673	0.20000	
79 Hexachlorobutadiene	225	17.446	17.446	(1.761)	8653	0.20000	0.146

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05806.D
Lab Smp Id: ICAL 2
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

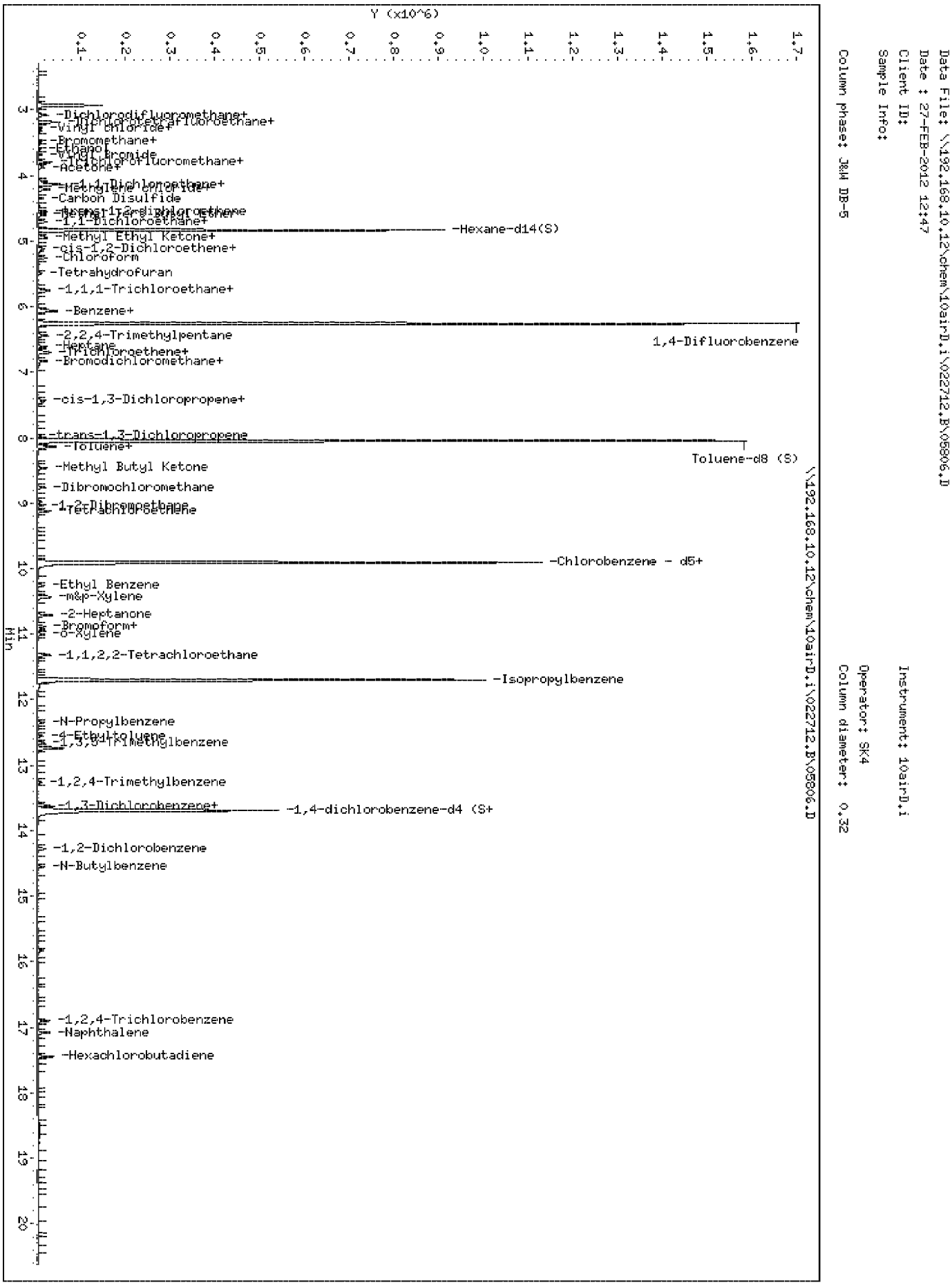
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1365825	4.42
56 Chlorobenzene - d	717767	430660	1004874	754850	5.17

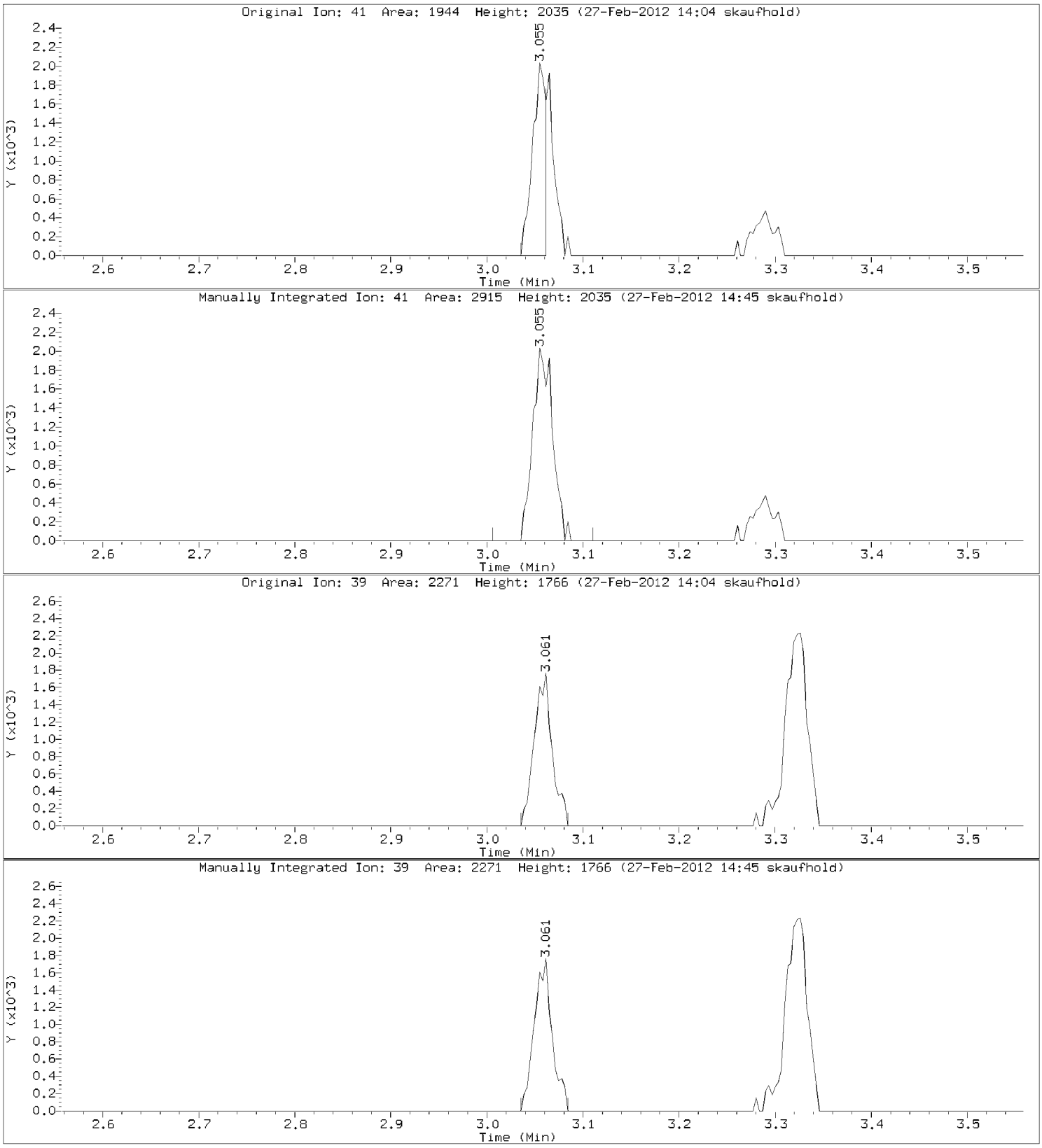
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	-0.05
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: \\192.168.10.12\chem\10airD.i\022712.B\05806.D
Date : 27-FEB-2012 12:47
Client ID:
Sample Info:
Instrument: 10airD.i
Column phase: J&W DB-5
Operator: SK4
Column diameter: 0.32
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Trichlorotrifluoroethane+
-Vinyl Chloride+
-Bromomethane+
-Ethanol
-Vinyl Bromide
-Trichlorofluoromethane+
-Acetone+
-1,1-Dichloroethane+
-Methylene Chloride
-Carbon Disulfide
-trans-1,2-Dichloroethene
-1,1-Dichloroethane+
-Hexane-d14(S)
-Methyl Ethyl Ketone+
-cis-1,2-Dichloroethene+
-Chloroform
-Tetrahydrofuran
-1,1,1-Trichloroethane+
-Benzene+
-2,2,4-Trimethylpentane
-Heptane
-Trichloroethene+
-Bromodichloromethane+
1,4-Difluorobenzene
-cis-1,3-Dichloropropene+
-trans-1,3-Dichloropropene
-Toluene+
Toluene-d8 (S)
-Methyl Butyl Ketone
-Dibromochloromethane
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
-m&p-Xylene
-2-Heptanone
-Bromoform+
-o-Xylene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-N-Propylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene+
-1,4-dichlorobenzene-d4 (S+
-1,2-Dichlorobenzene
-N-Butylbenzene
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene
\\192.168.10.12\chem\10airD.i\022712.B\05806.D

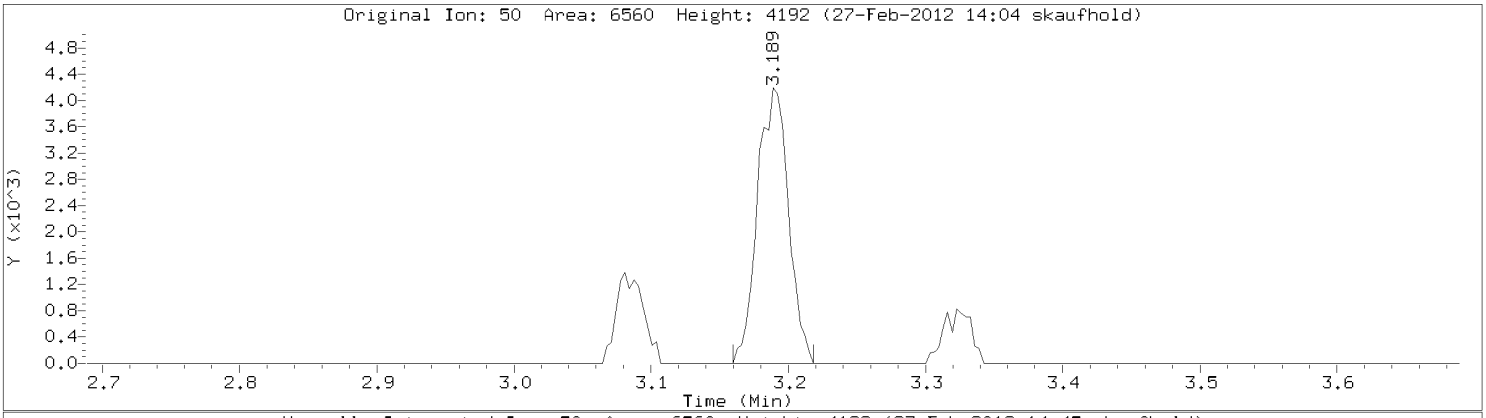
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

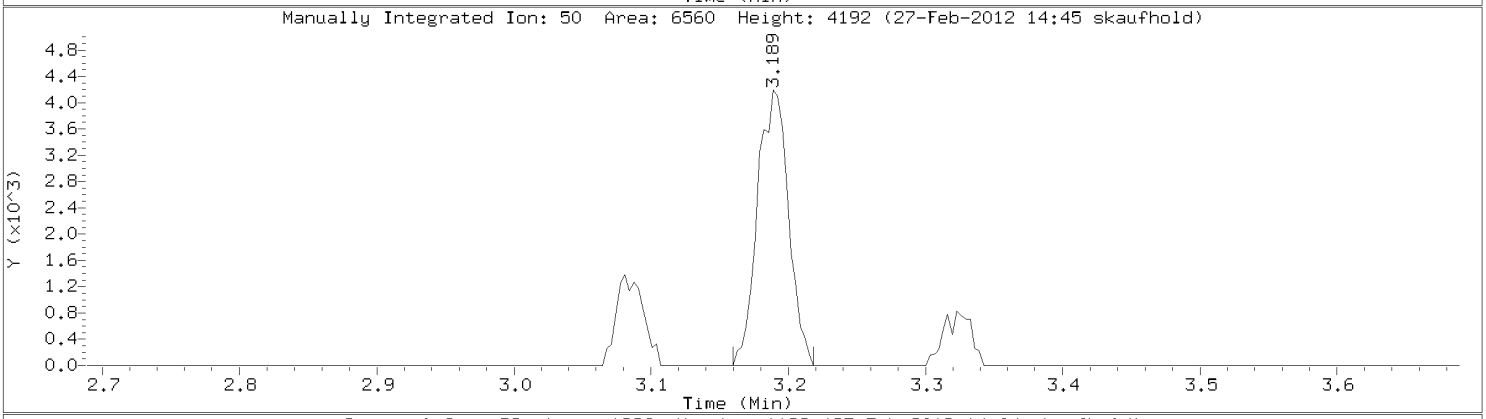
Compound: Propylene
CAS Number: 75-09-2

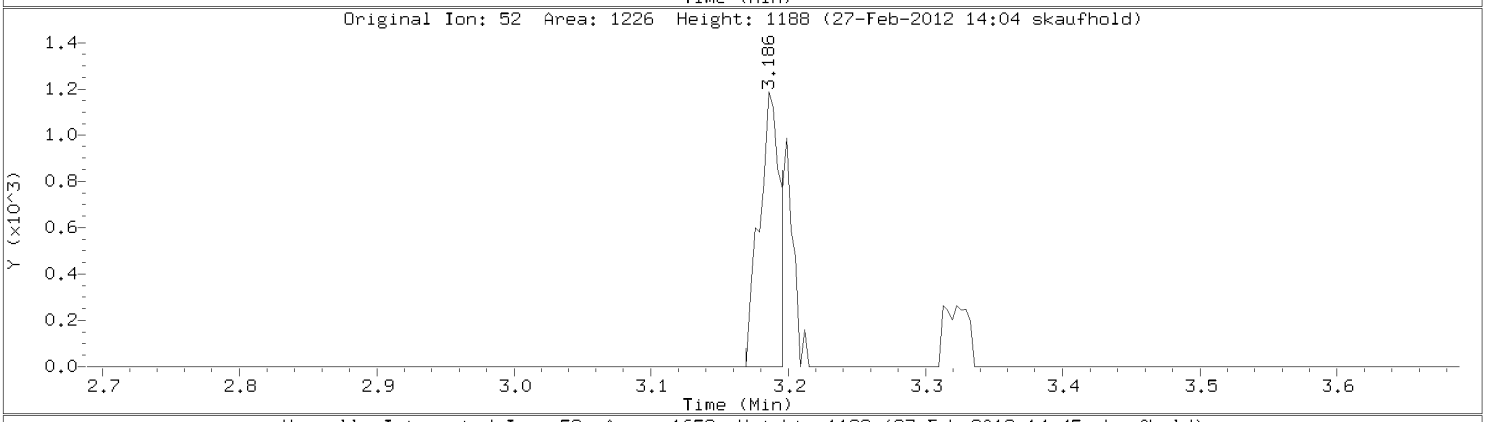


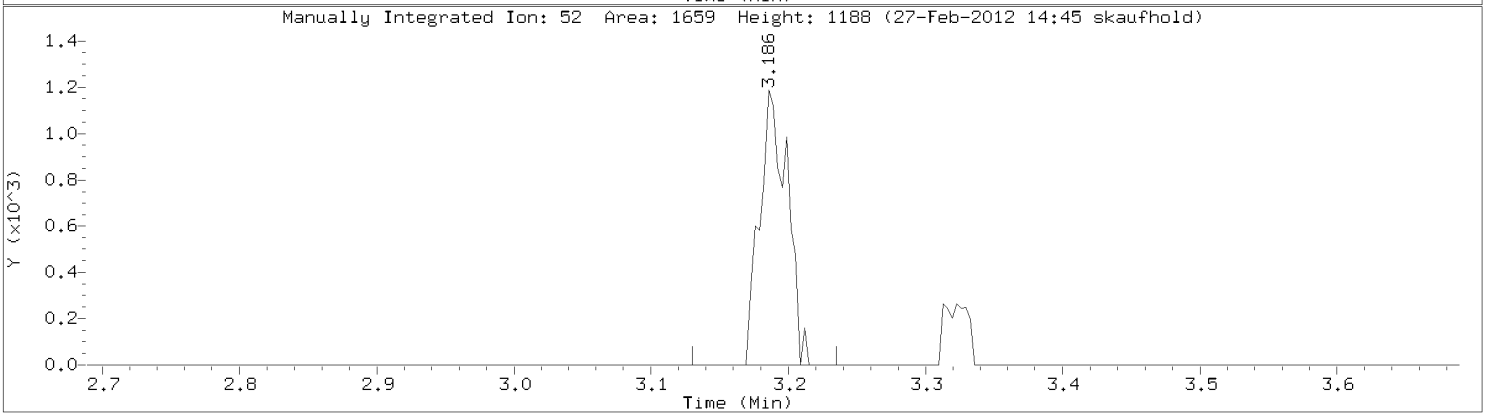
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Chloromethane
CAS Number: 74-87-3



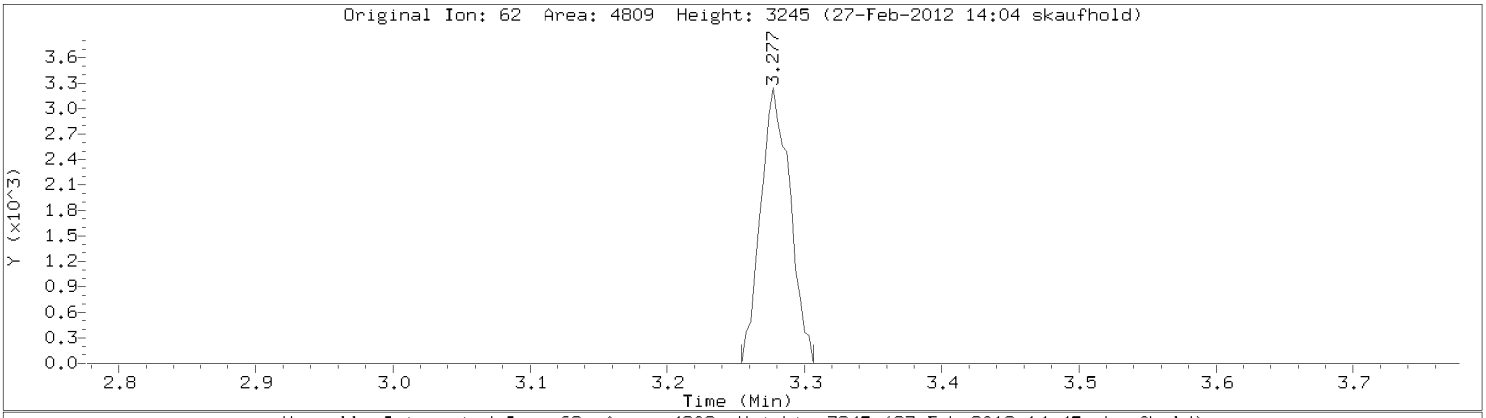


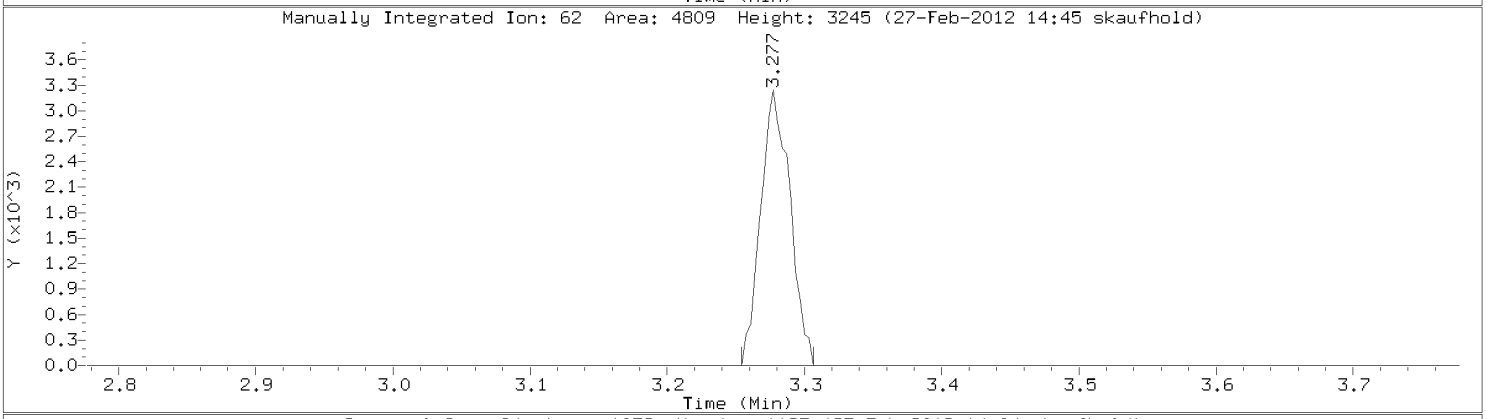


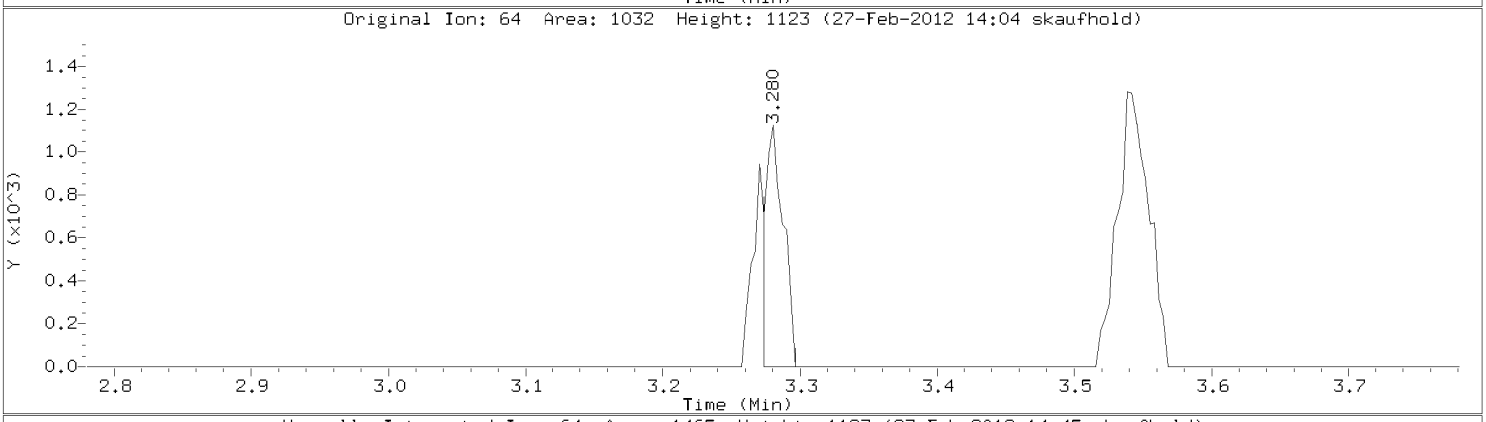


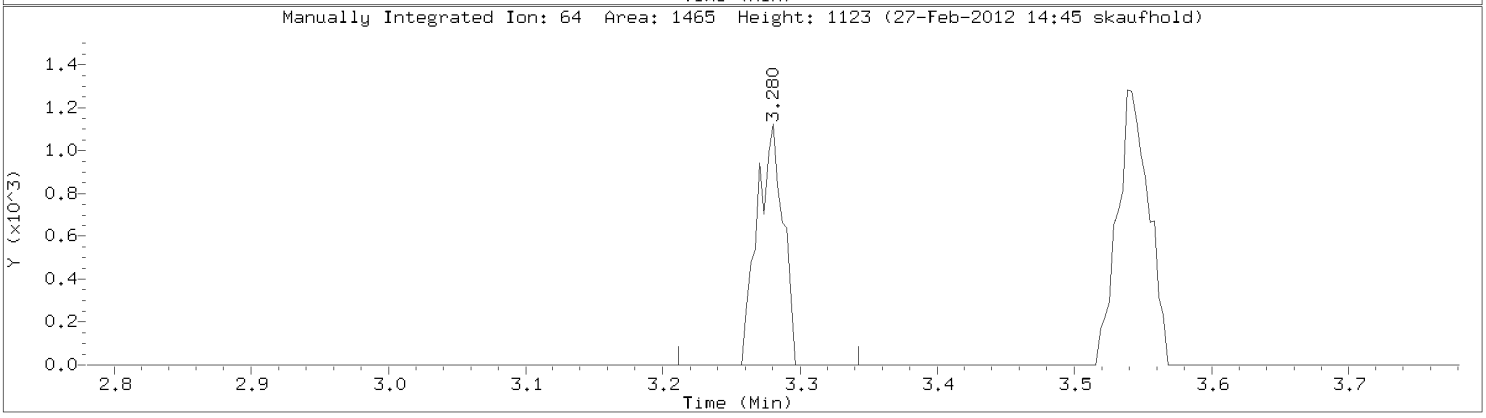
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Vinyl chloride
CAS Number: 75-01-4



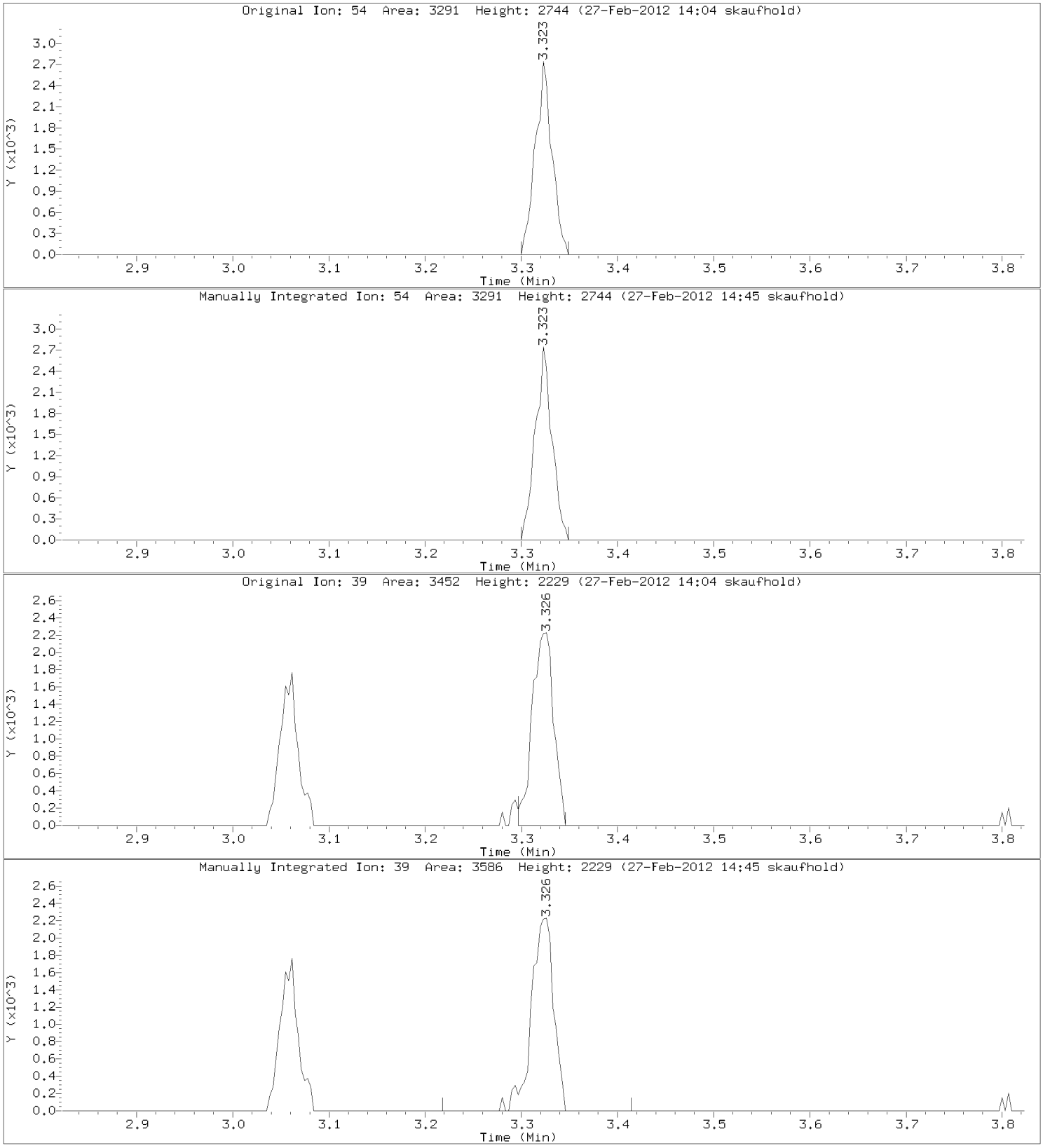






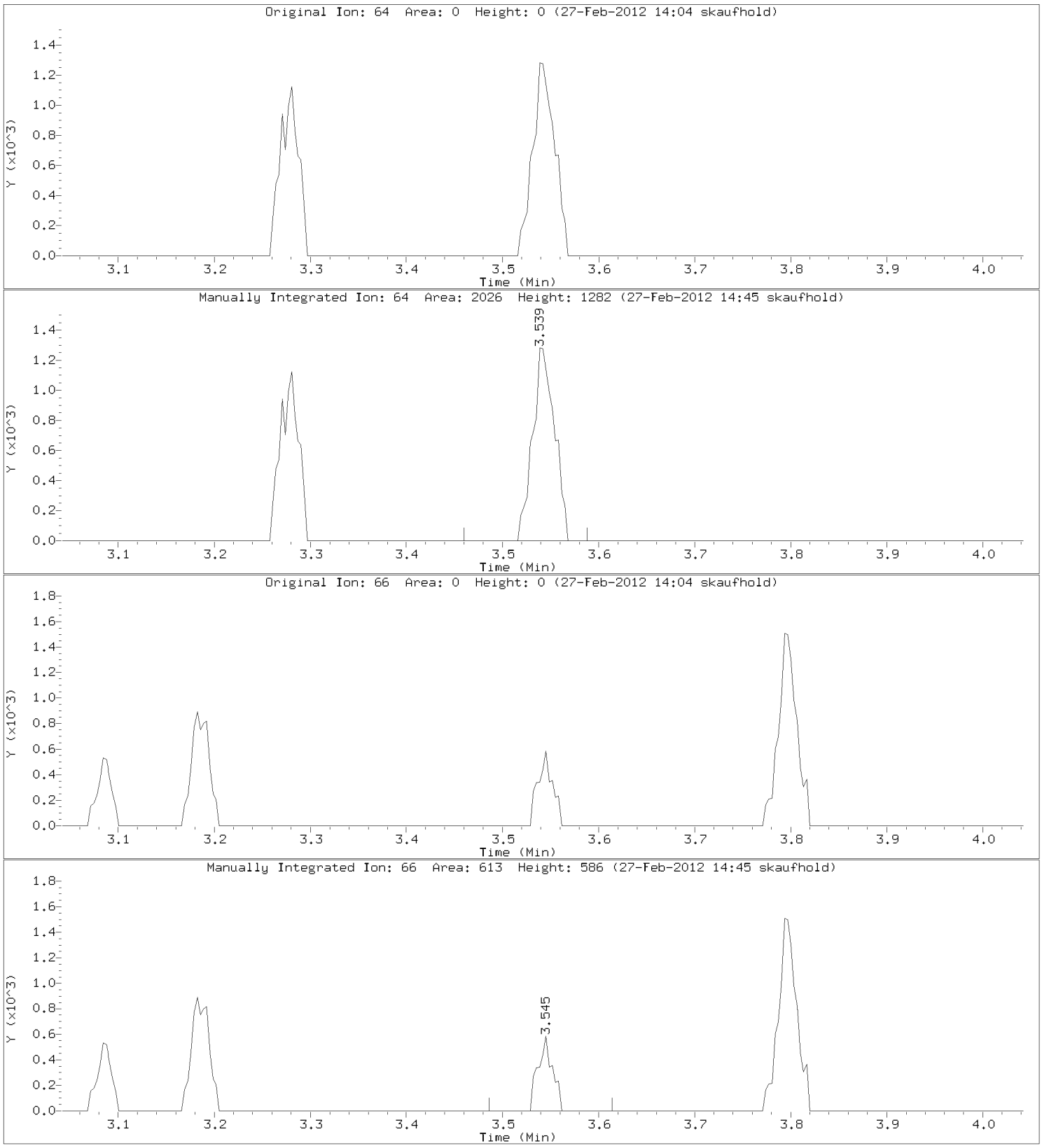
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,3-Butadiene
CAS Number: 106-99-0



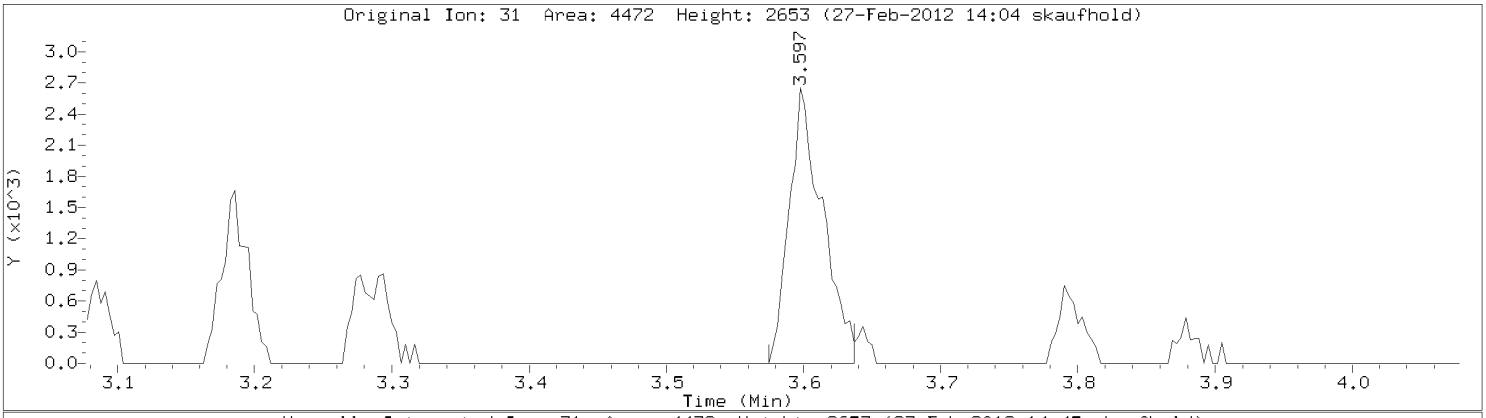
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Lab Sample ID: ICAL 2

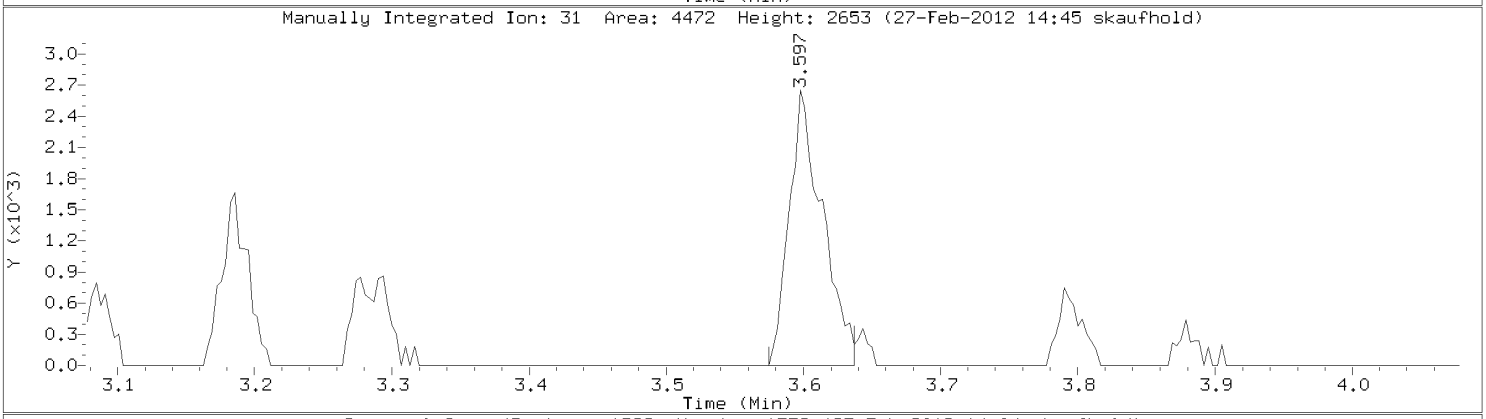
Compound: Chloroethane
CAS Number: 75-00-3

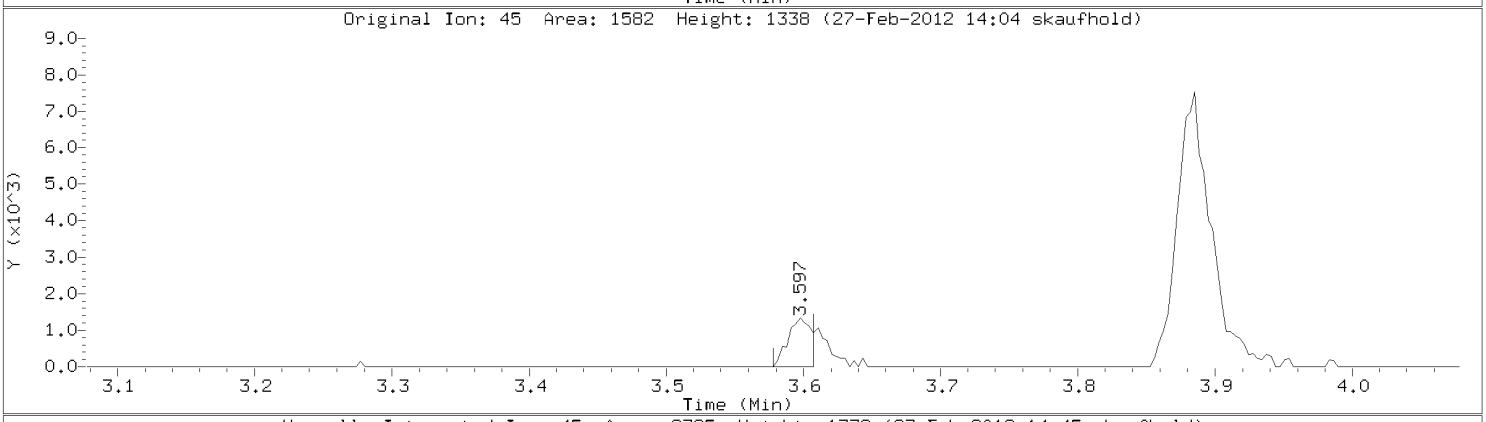


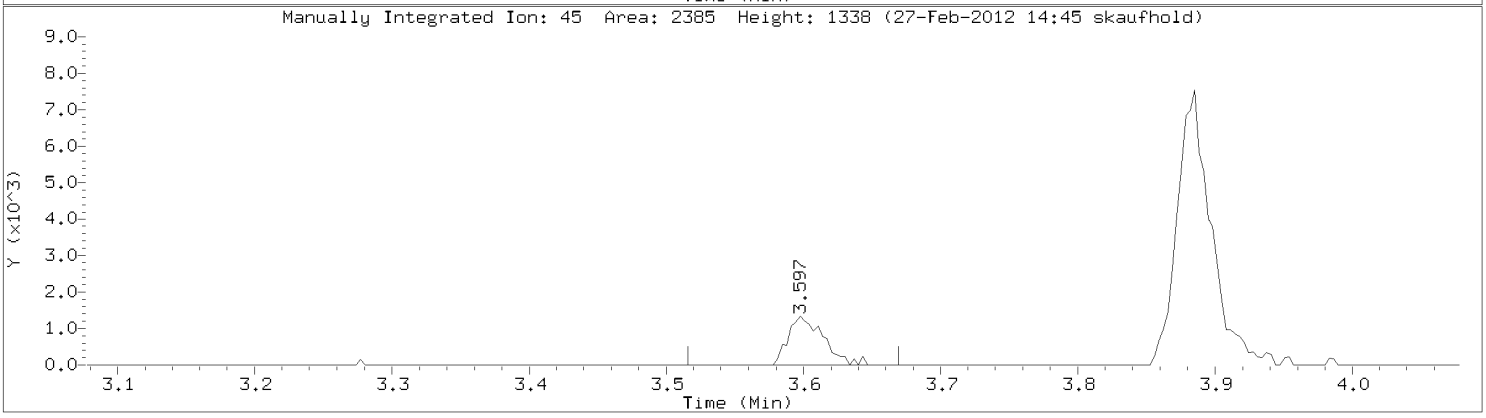
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Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Ethanol
CAS Number: 64-17-5



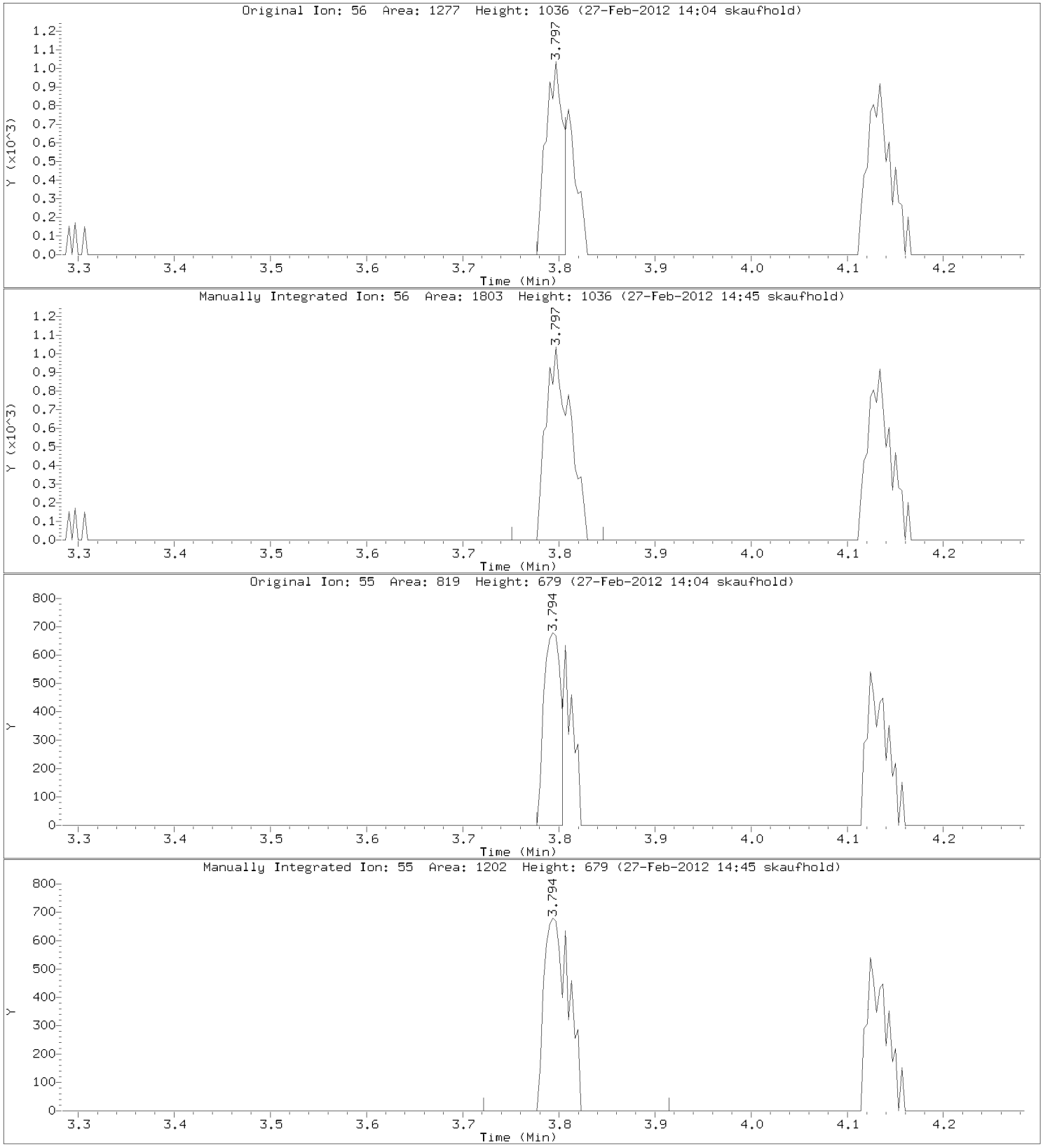






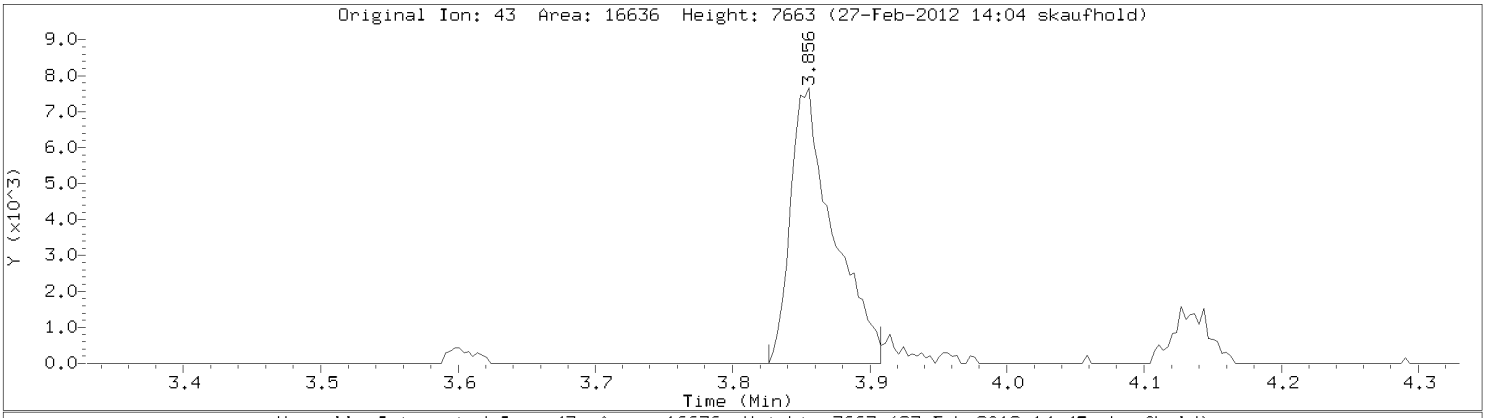
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Lab Sample ID: ICAL 2

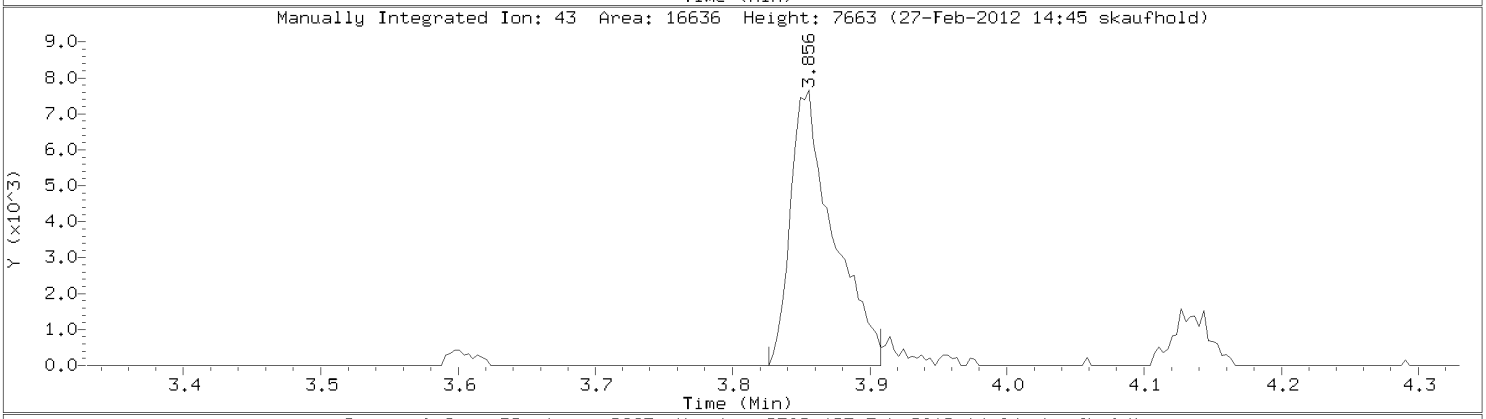
Compound: Acrolein
CAS Number: 107-02-08

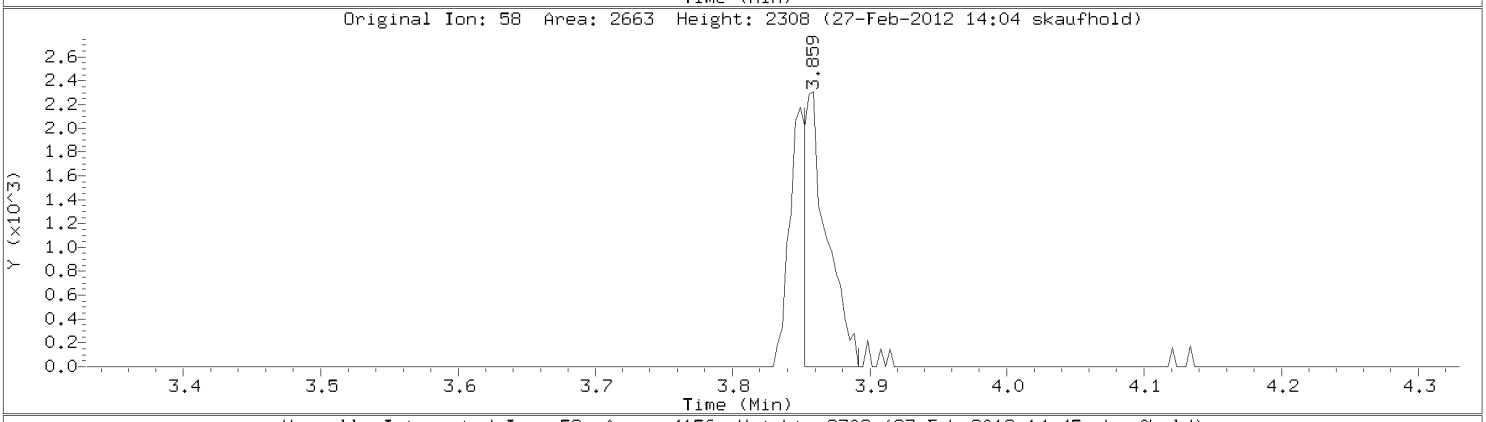


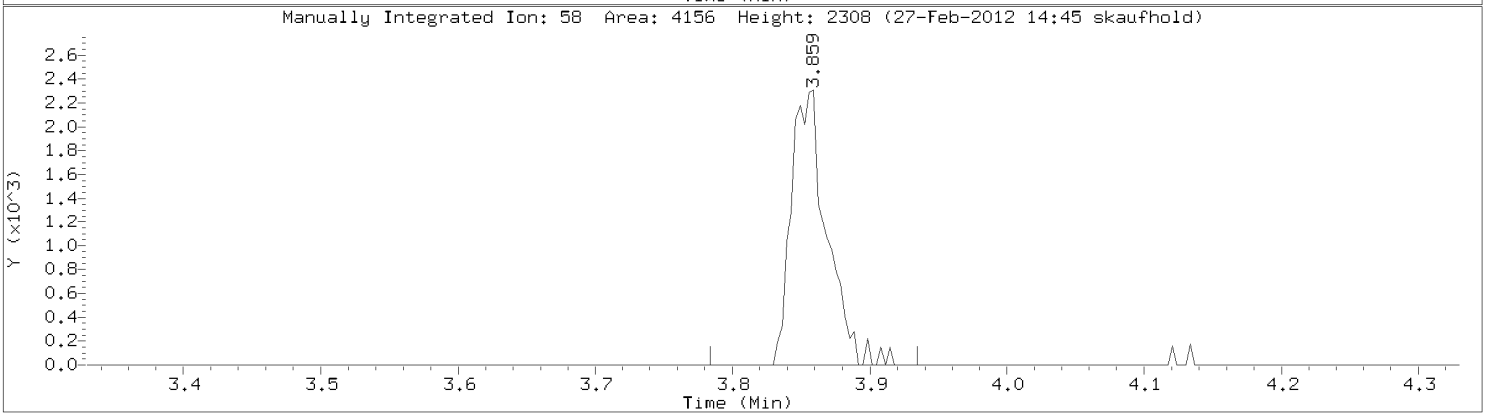
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Acetone
CAS Number: 67-64-1



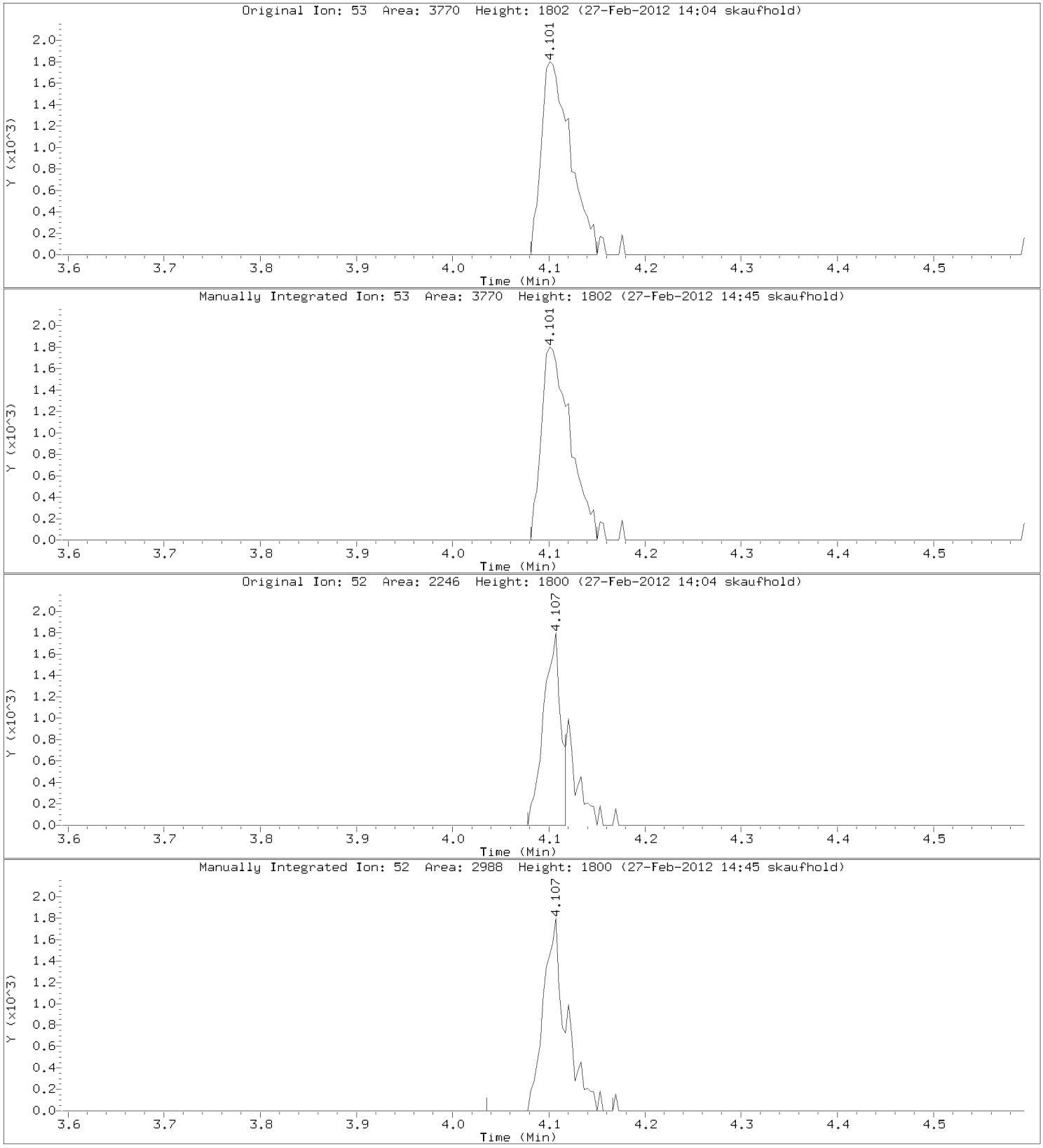






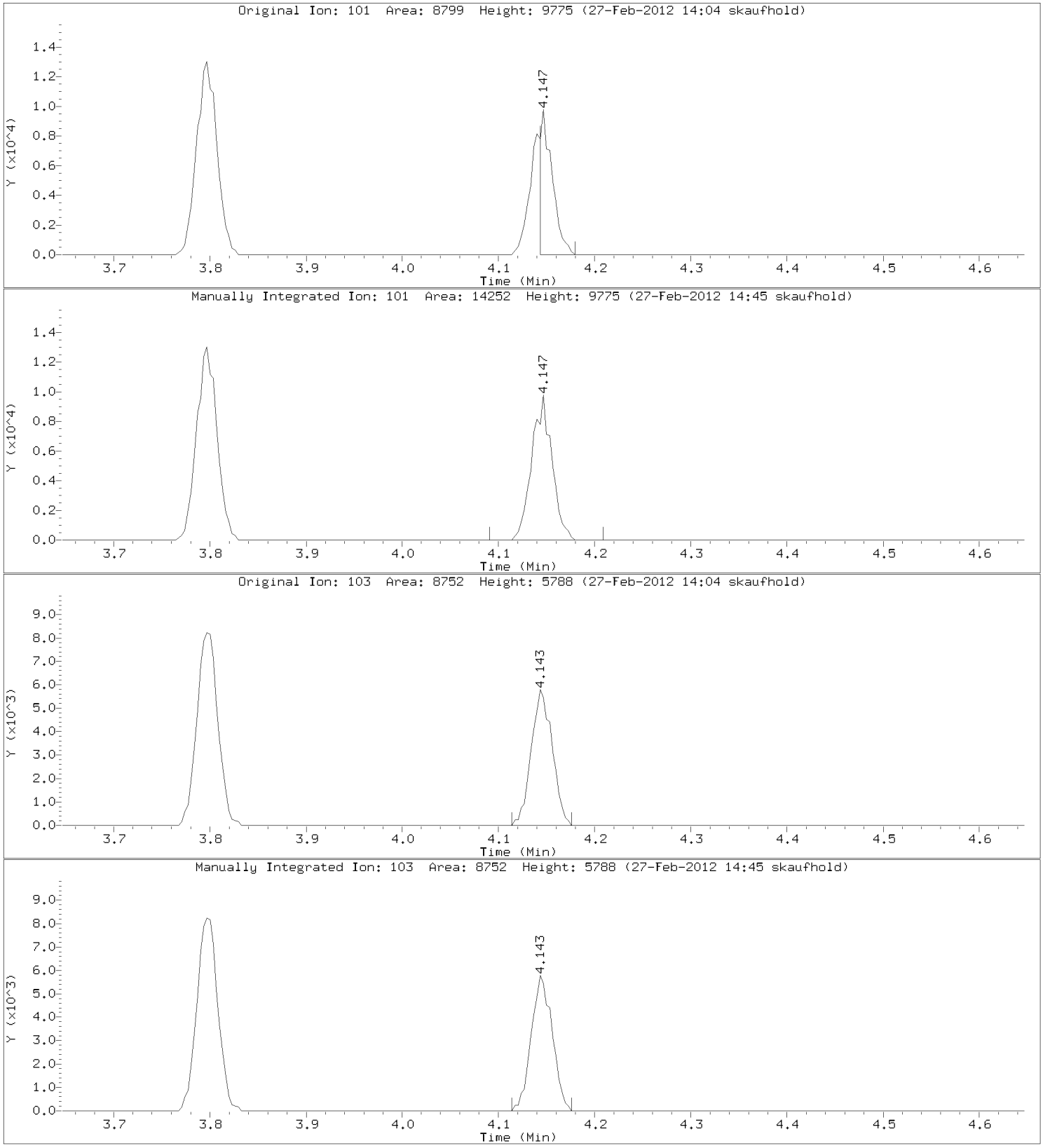
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Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Acrylonitrile
CAS Number: 107-13-1

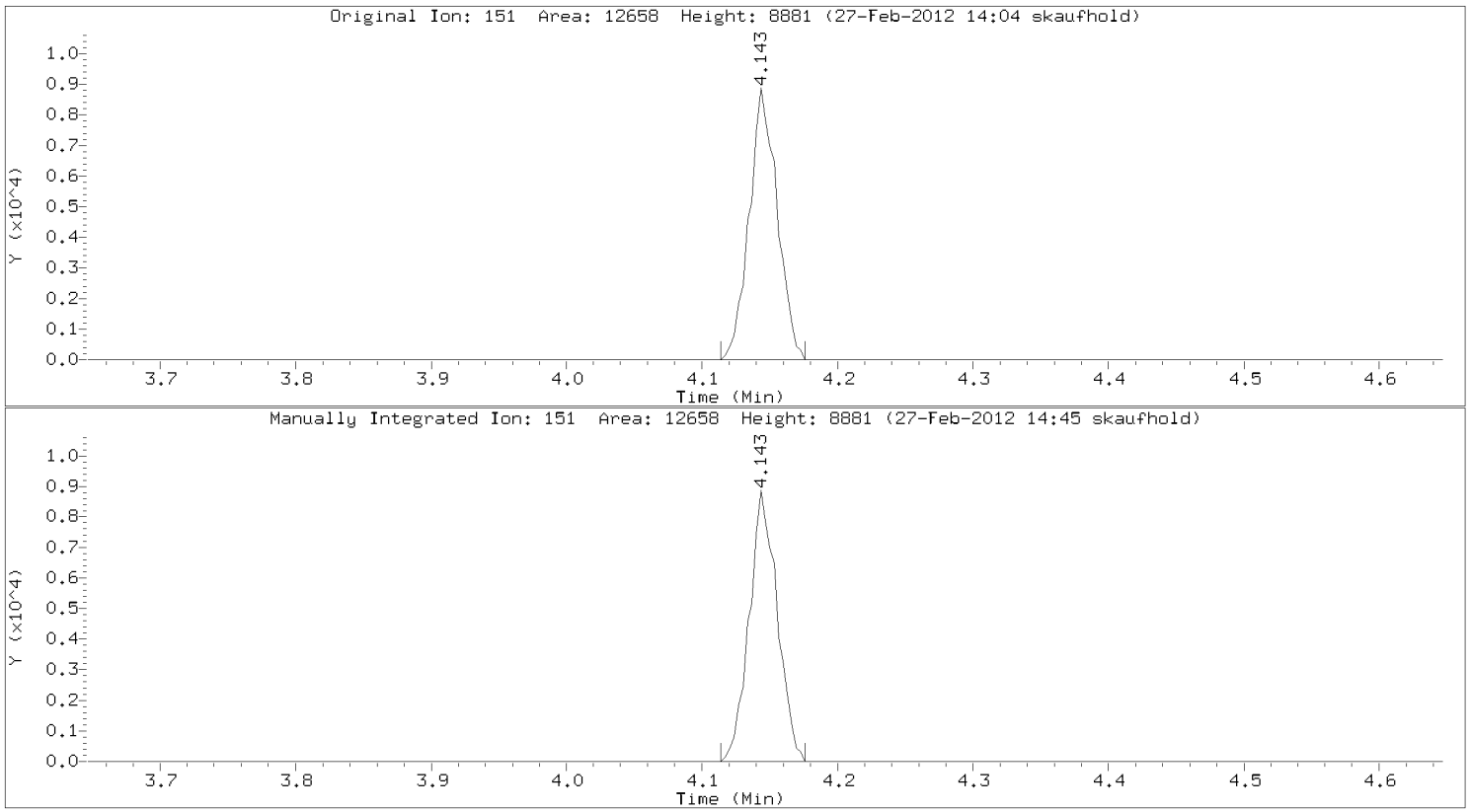


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Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Freon 113
CAS Number: 76-13-1

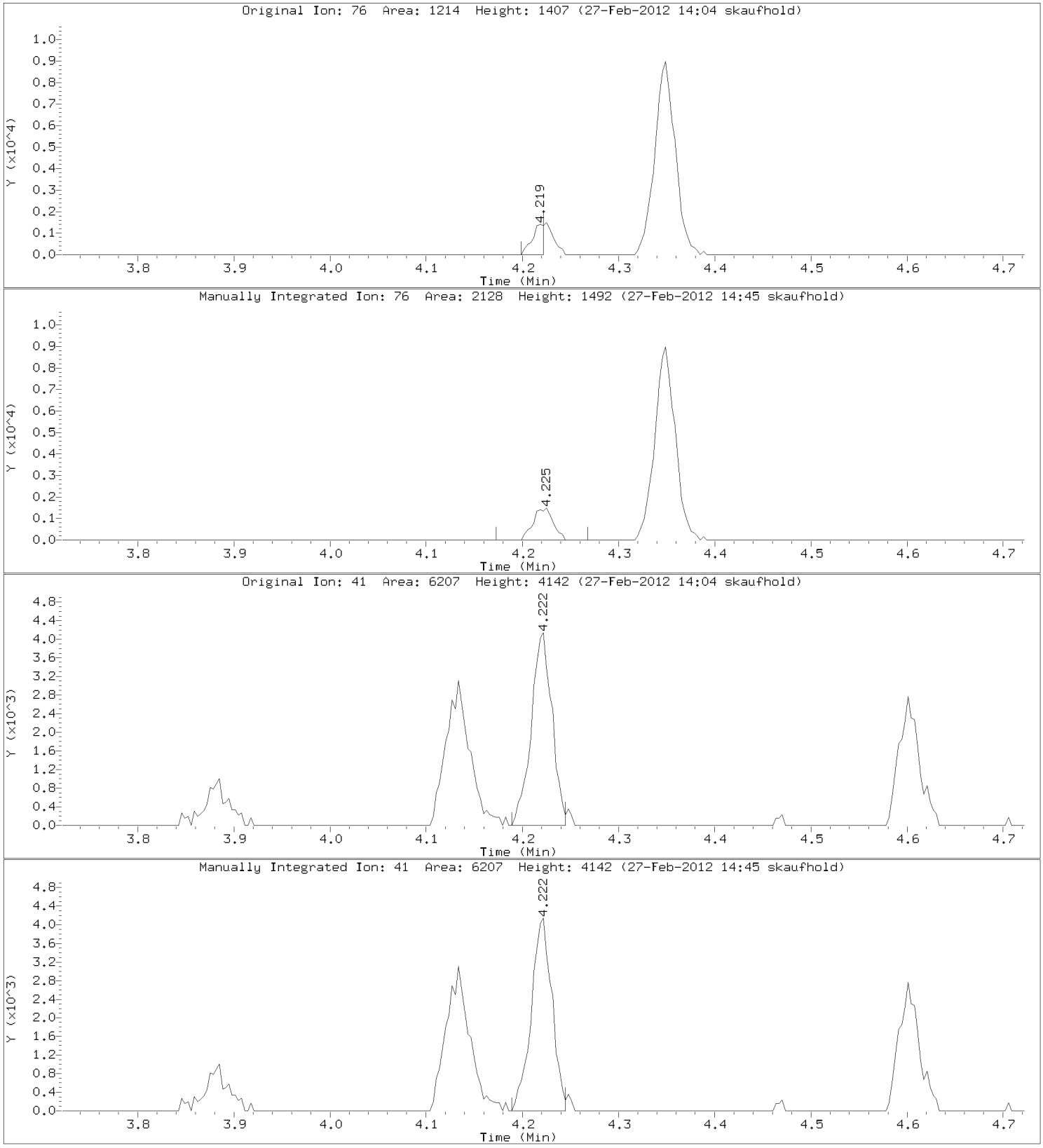


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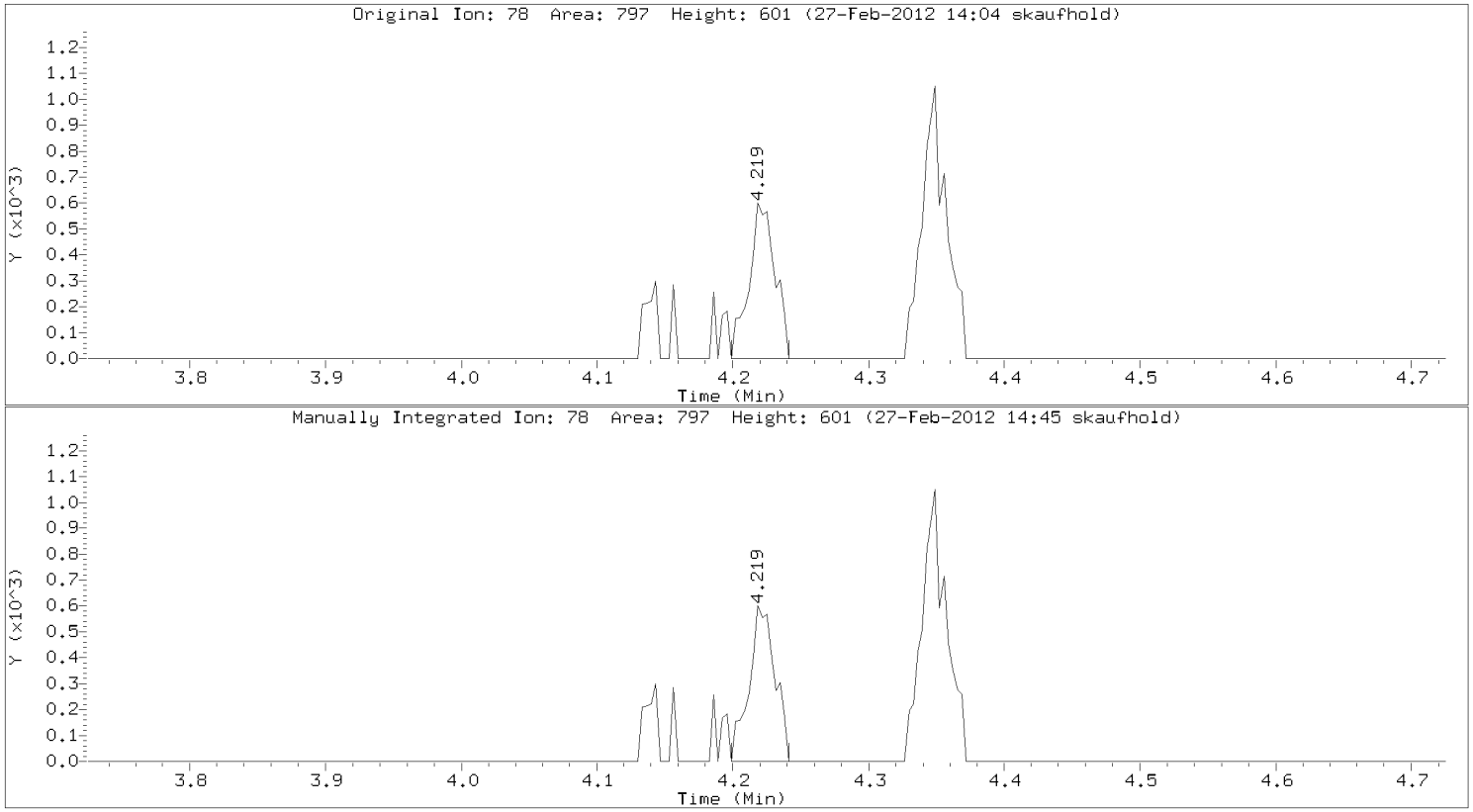


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Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Allyl Chloride
CAS Number: 107-05-1

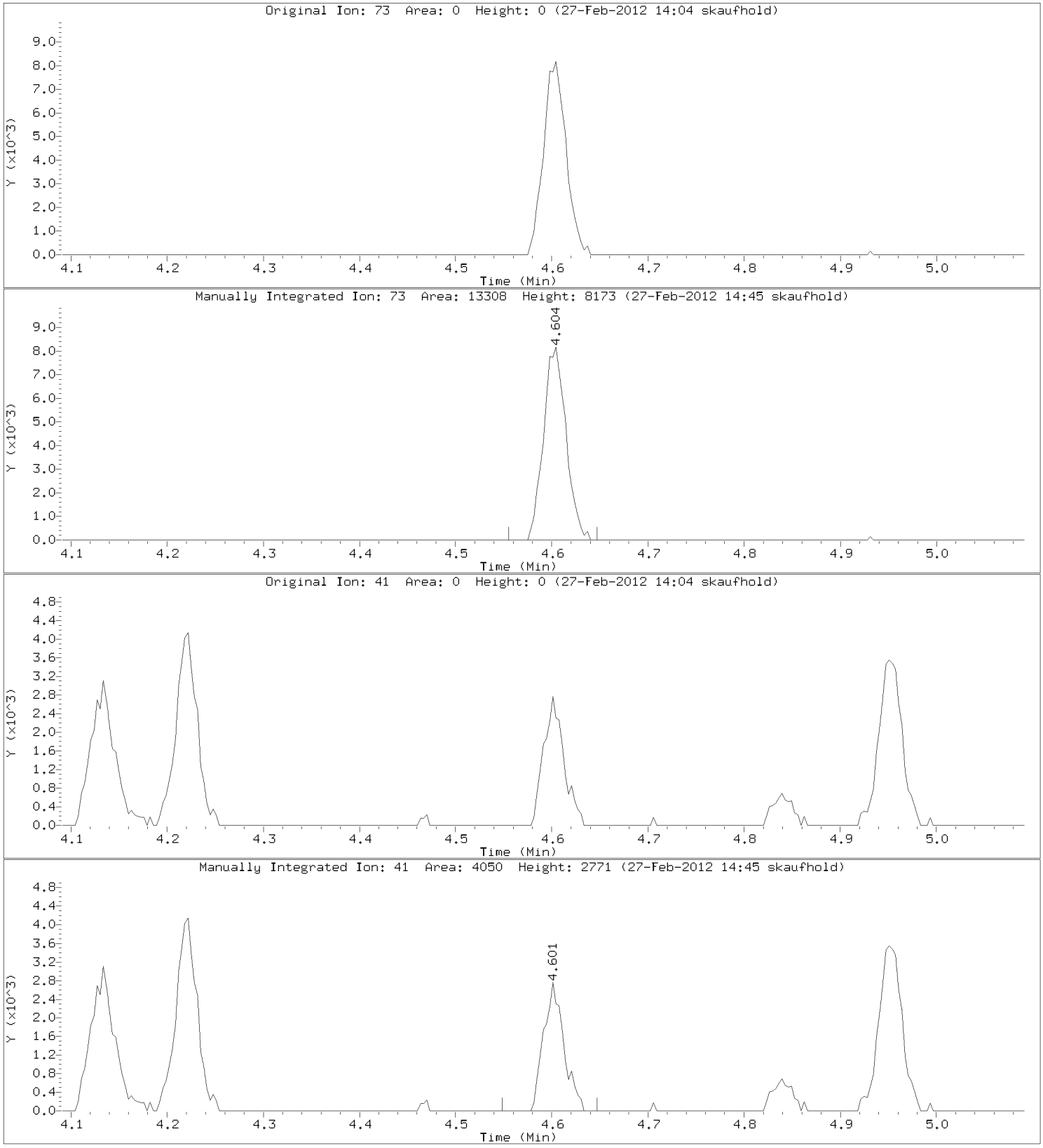


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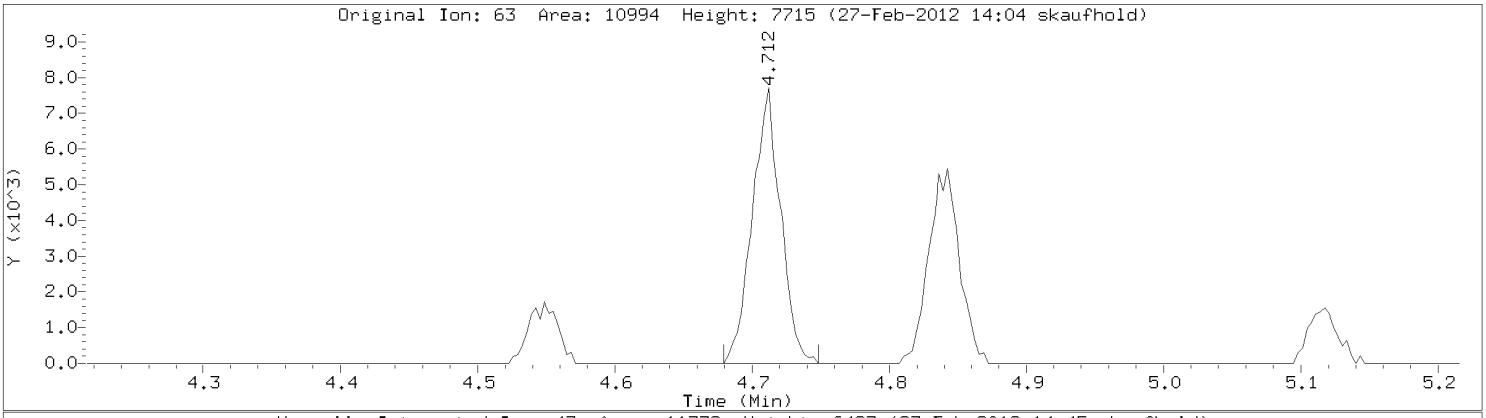
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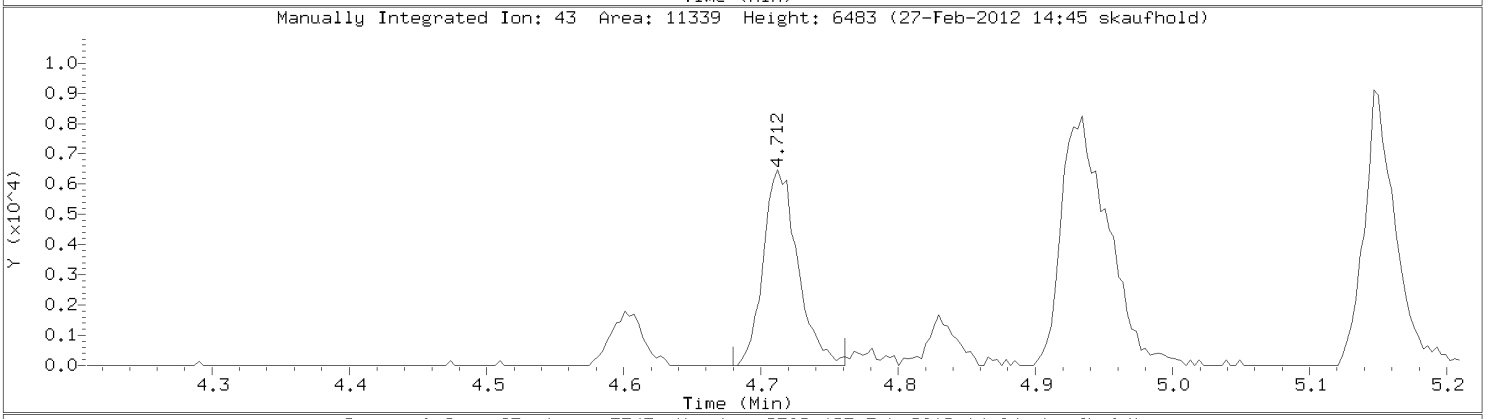
Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4

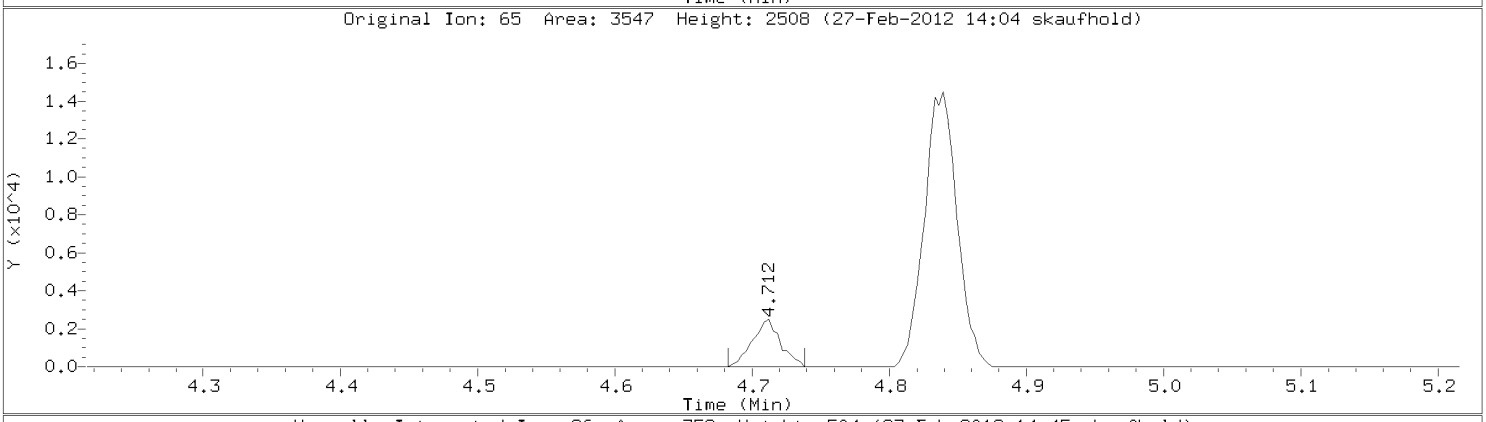


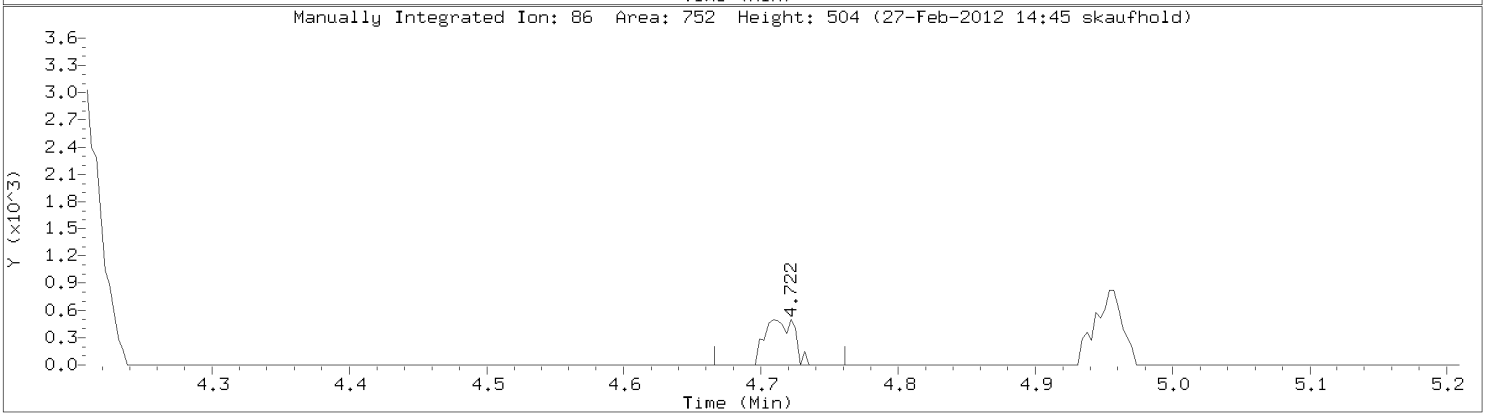
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Vinyl Acetate
CAS Number: 108-05-4



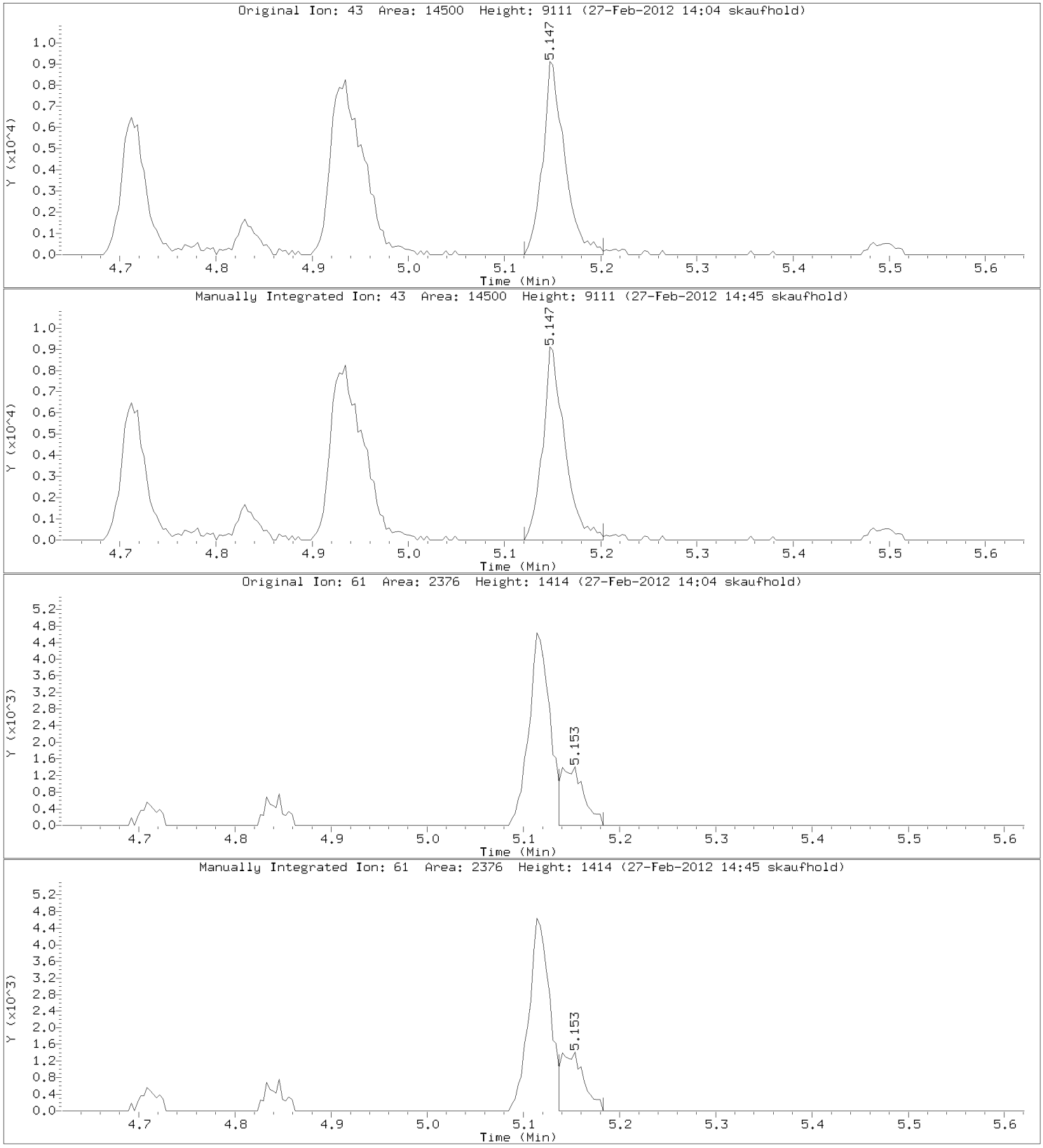




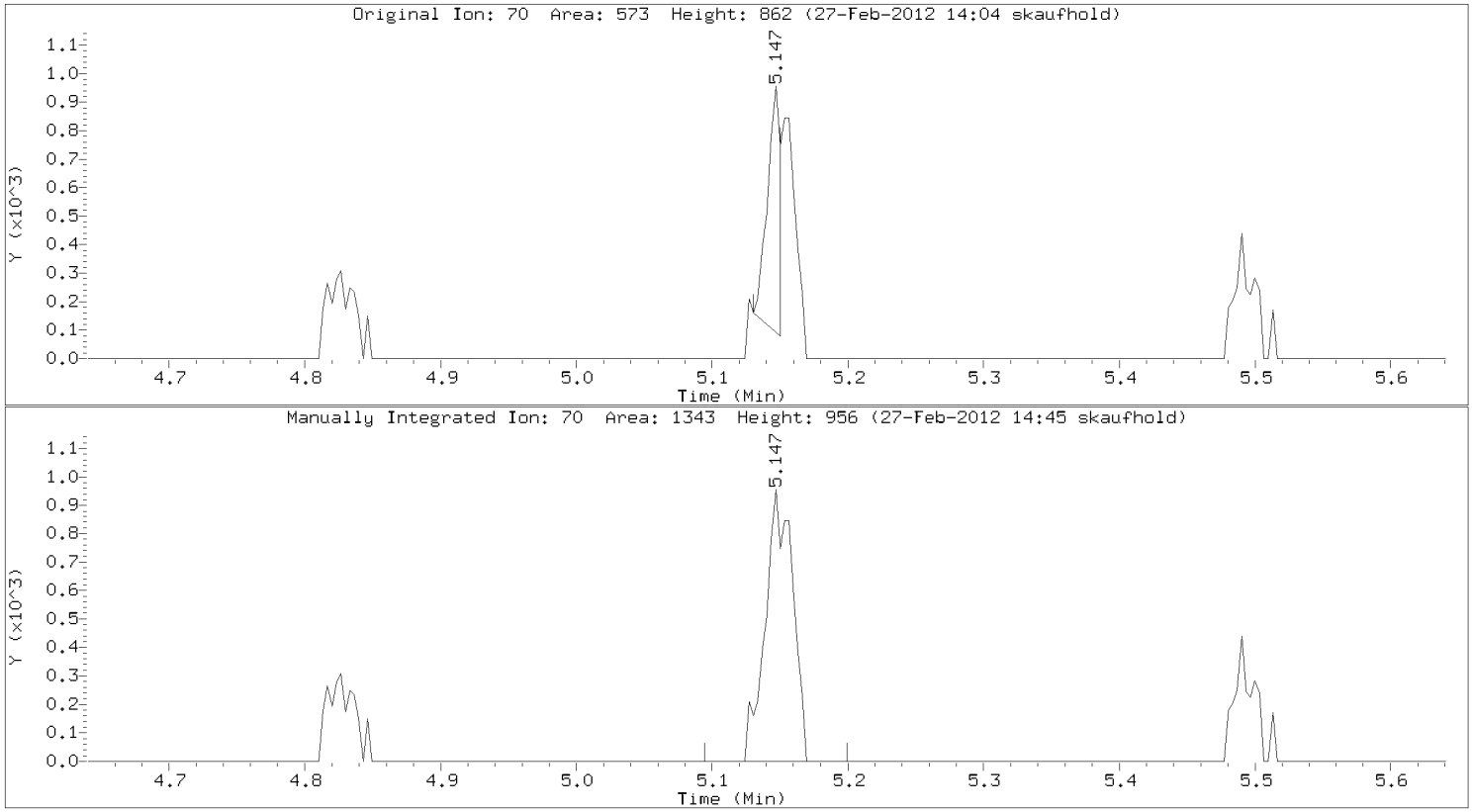


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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Ethyl Acetate
CAS Number: 141-78-6

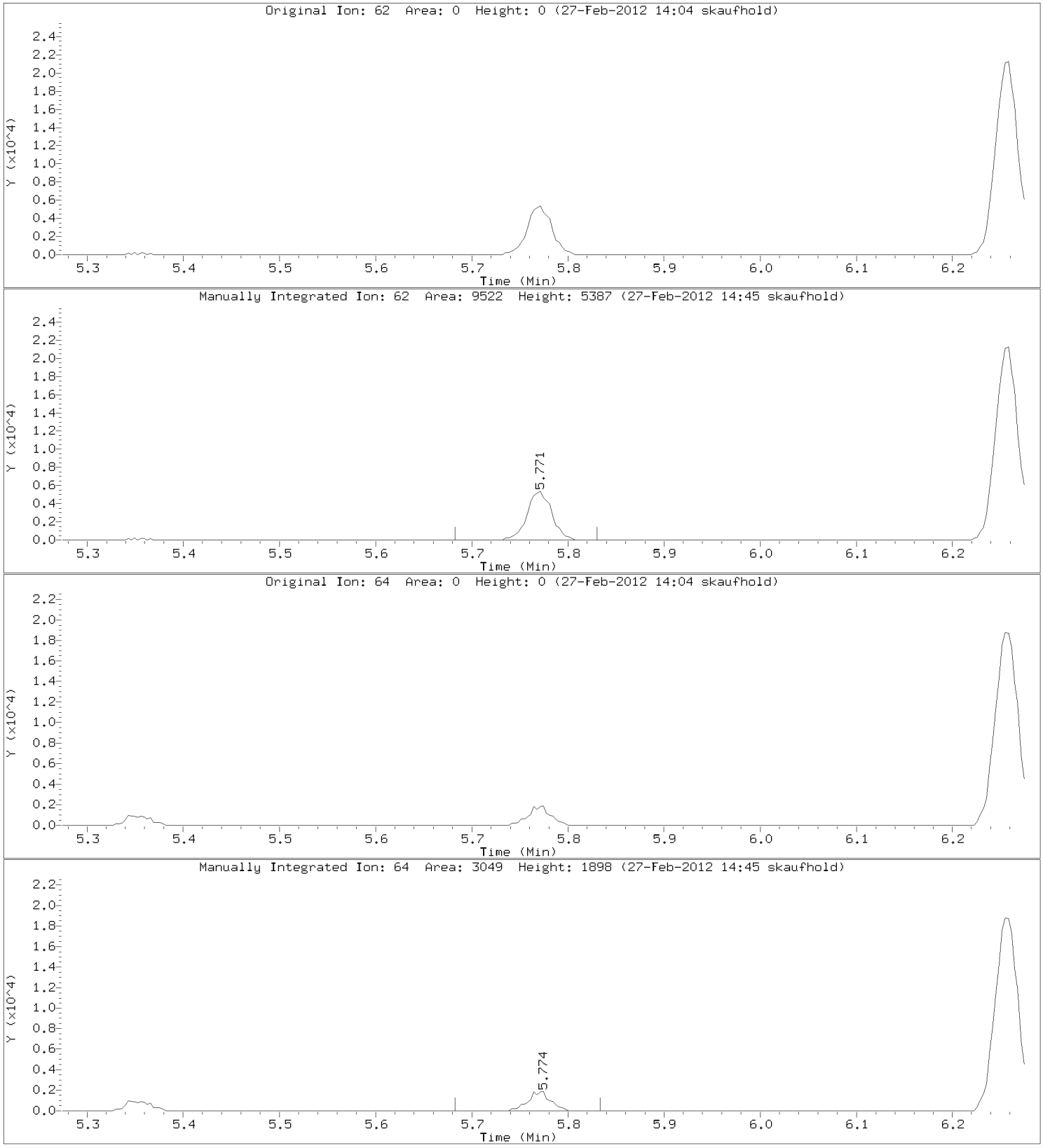


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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2



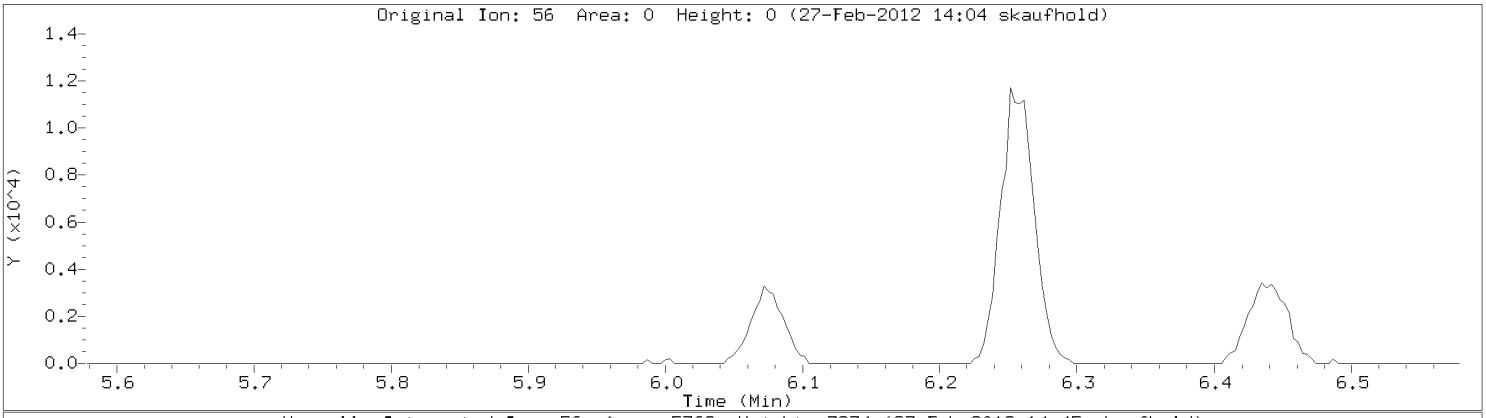
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

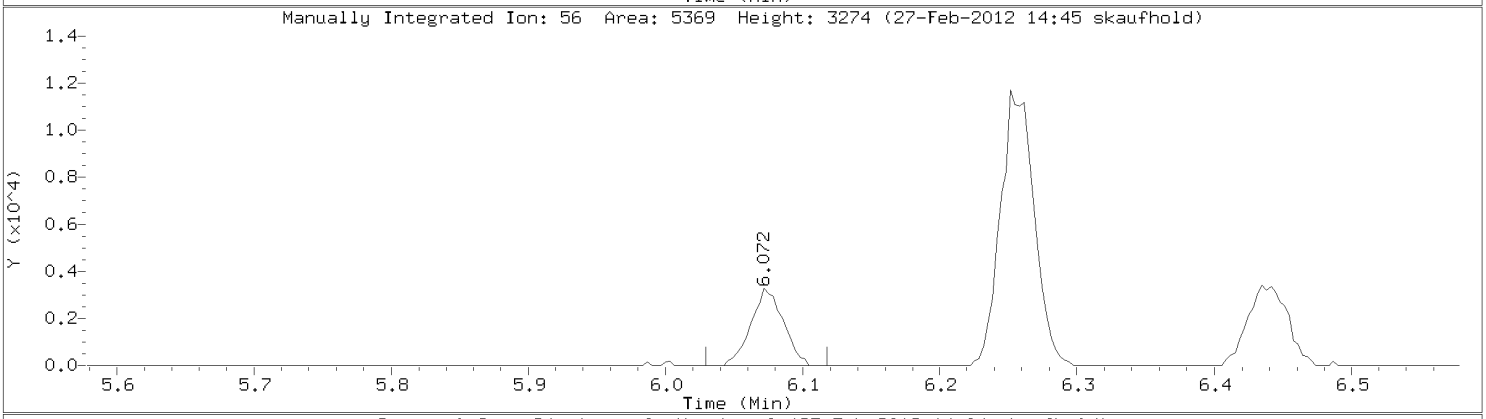
Compound: 1,2-Dichloroethane
CAS Number: 107-06-2

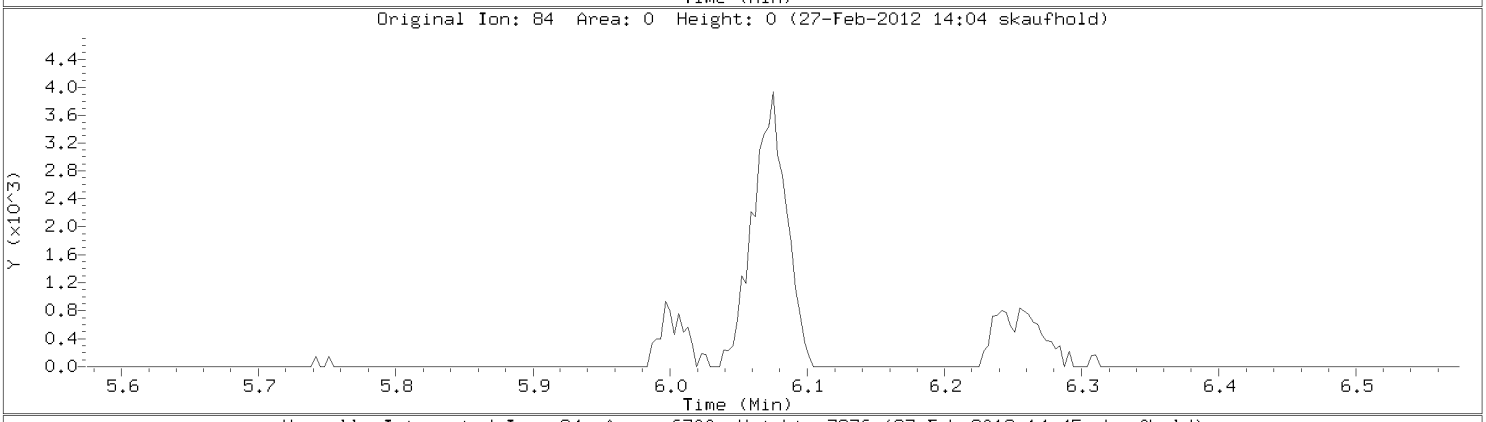


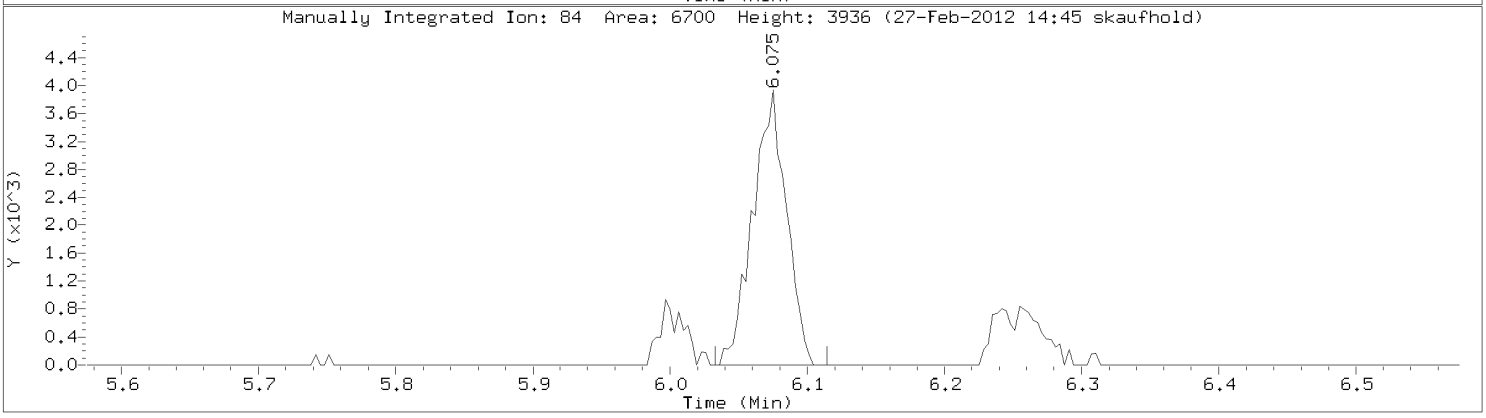
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Cyclohexane
CAS Number: 110-82-7

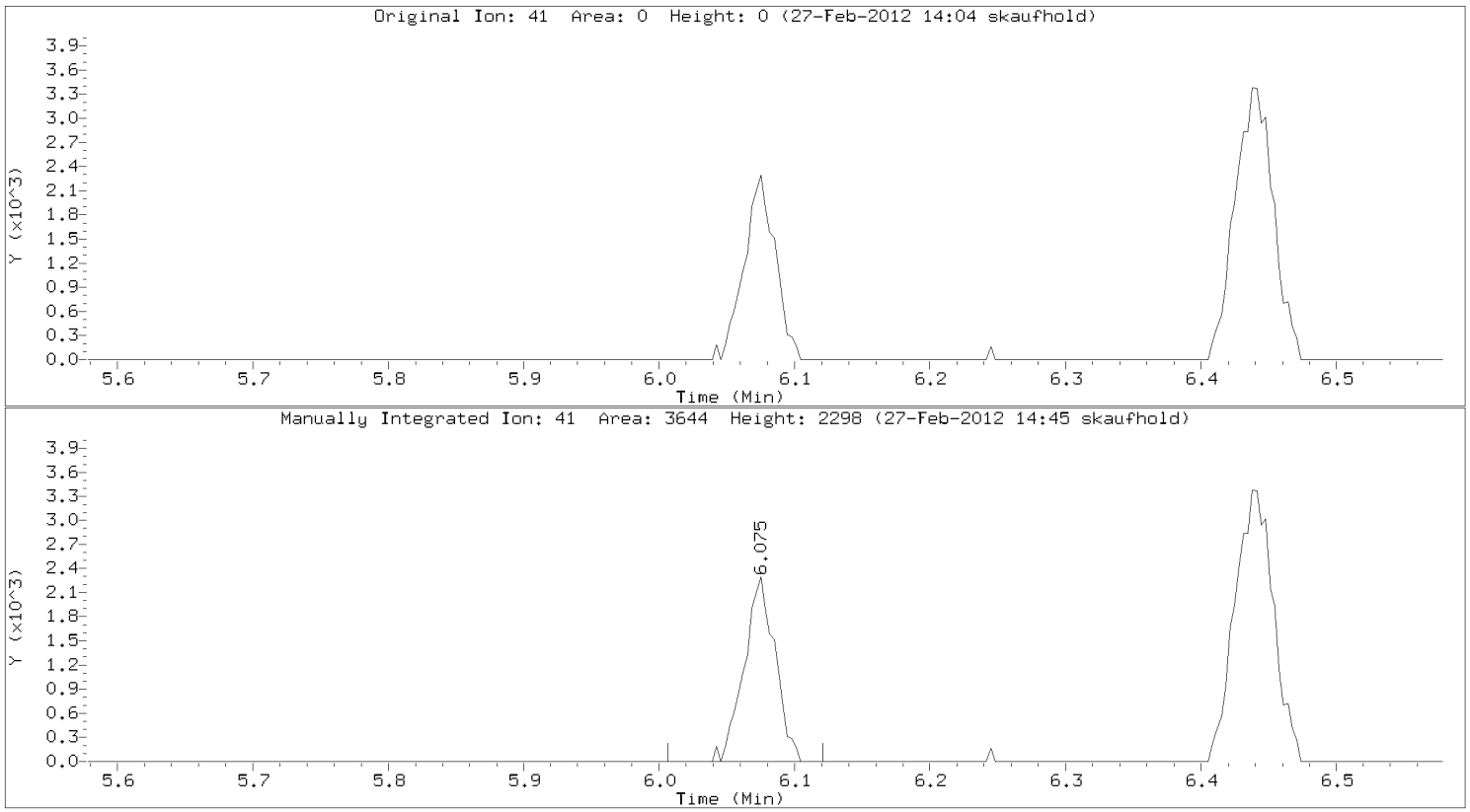






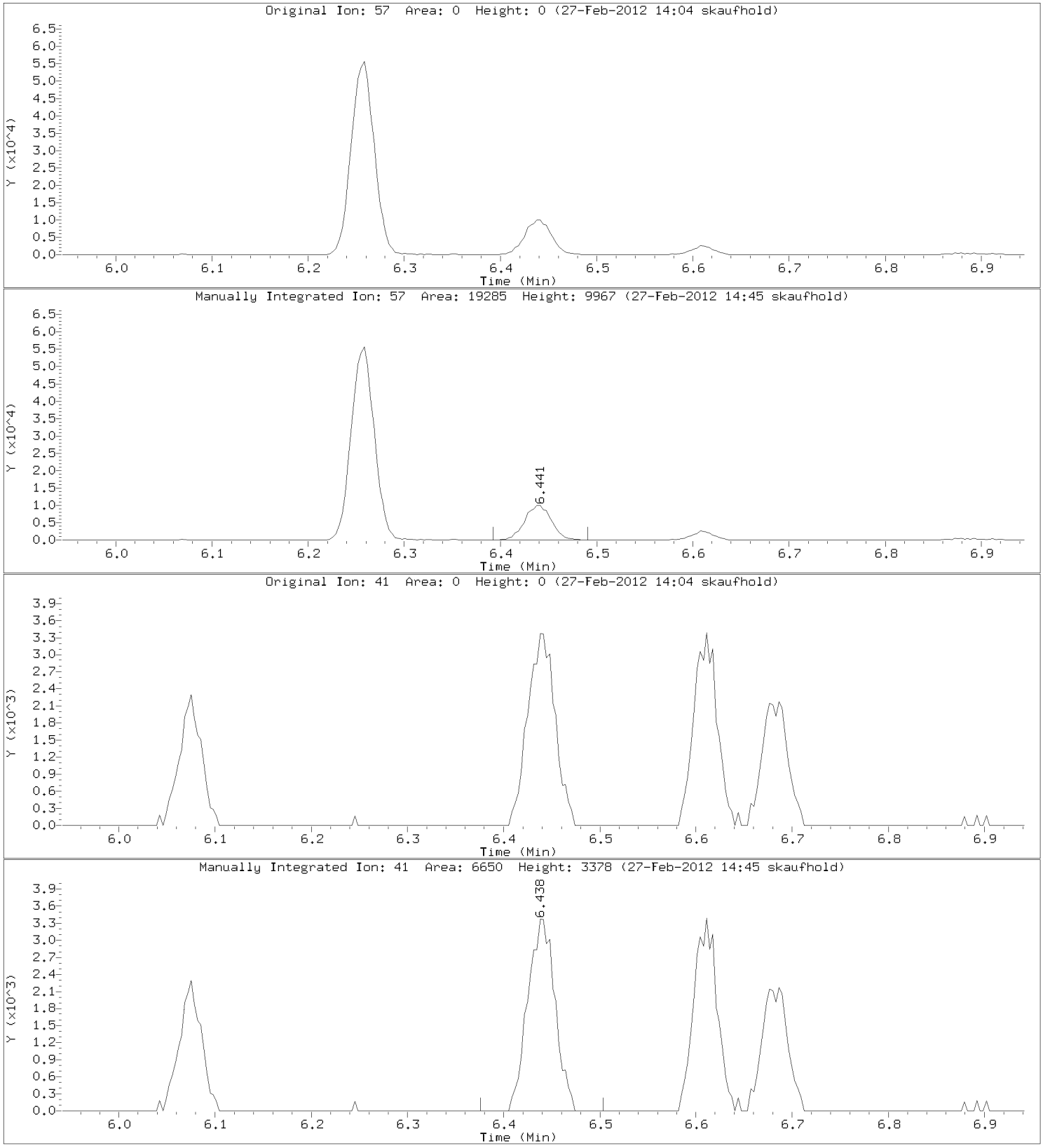


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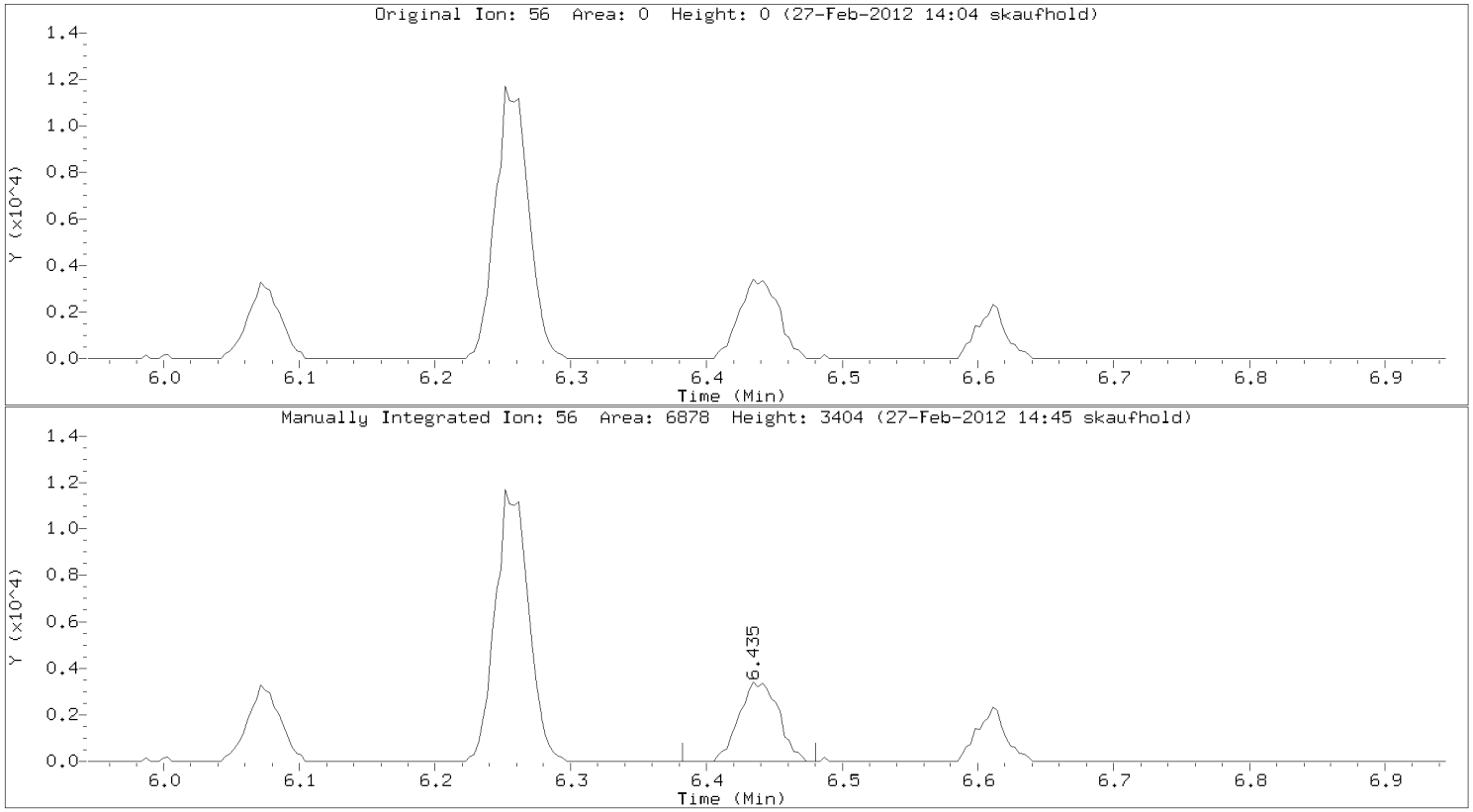


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Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

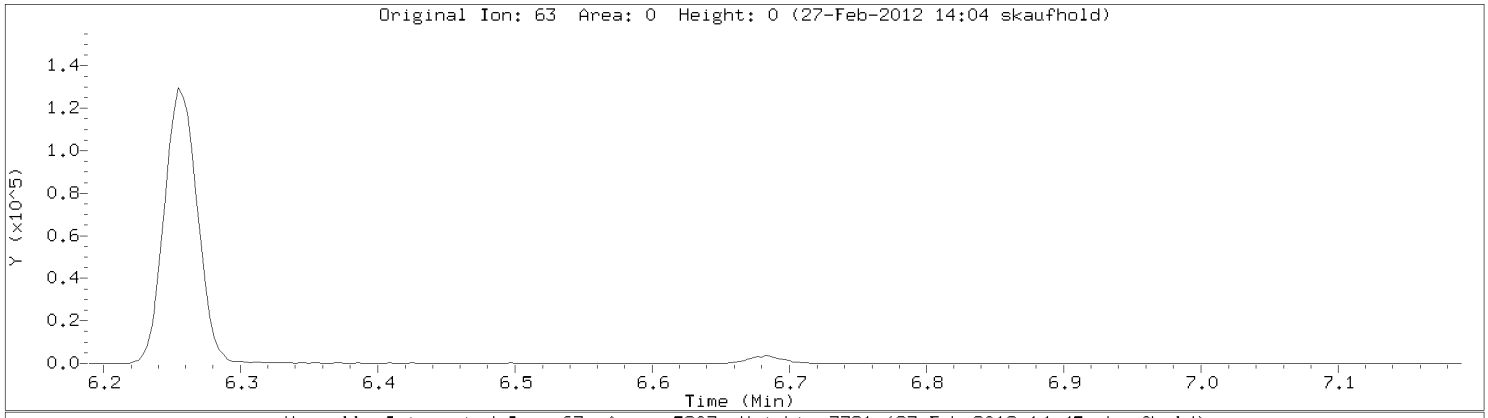


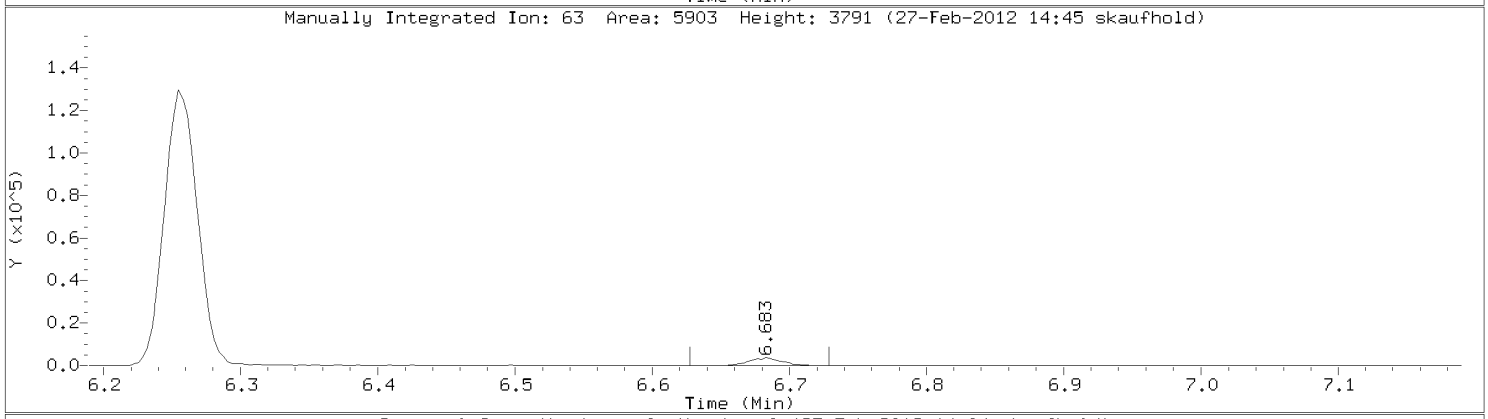
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Lab Sample ID: ICAL 2

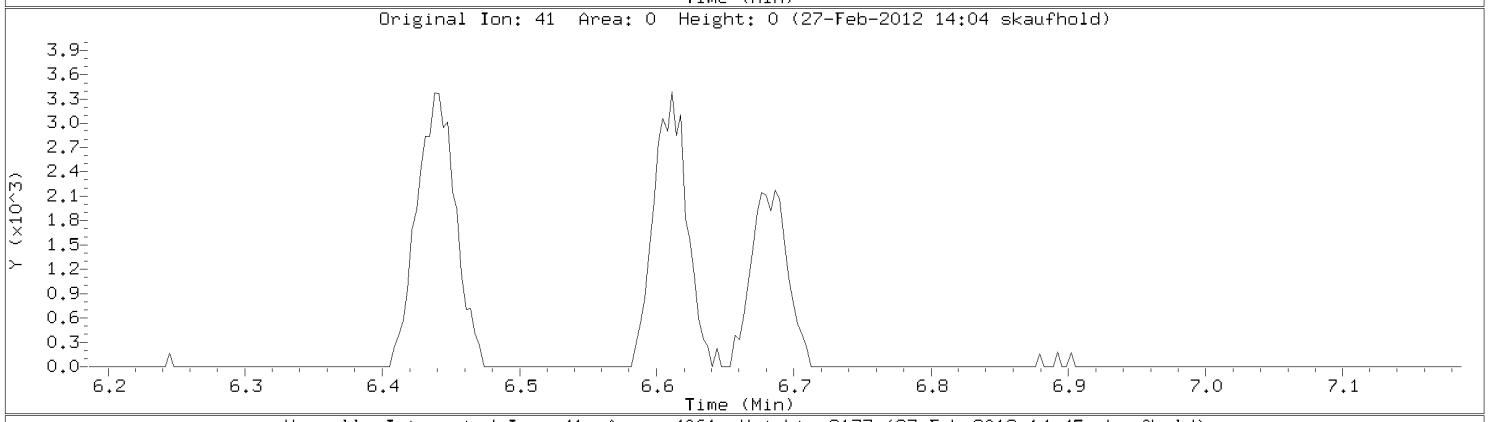


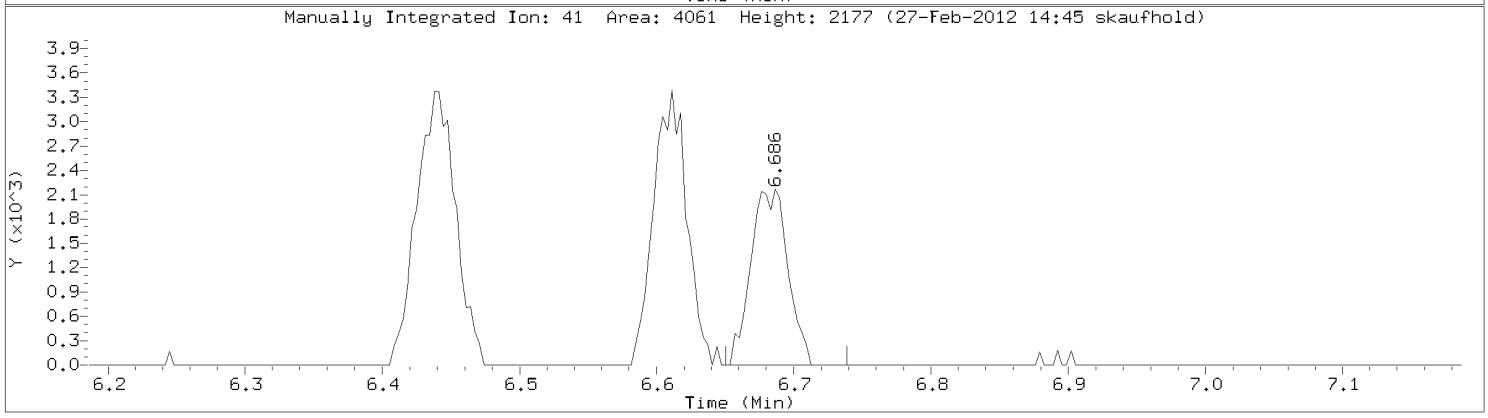
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

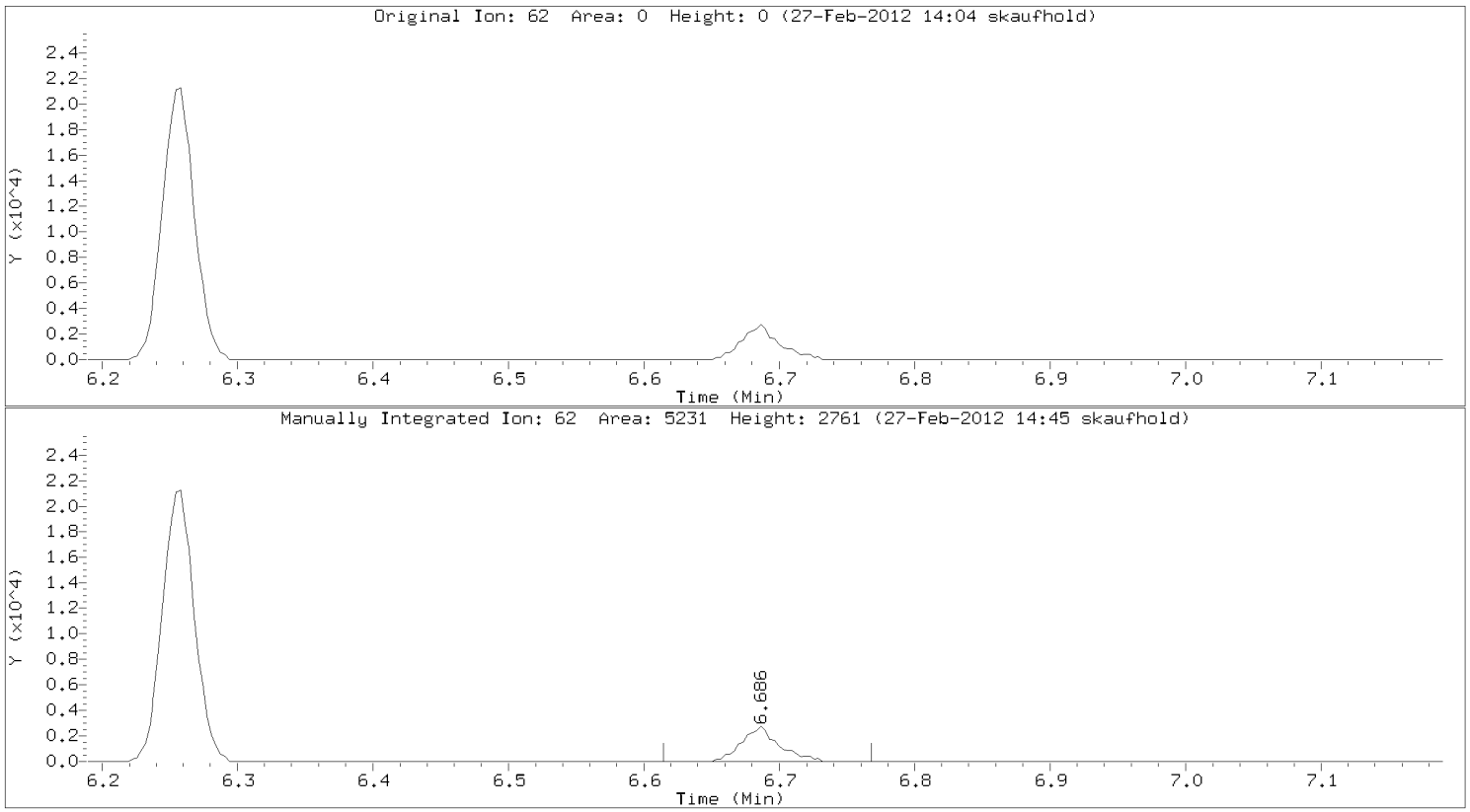






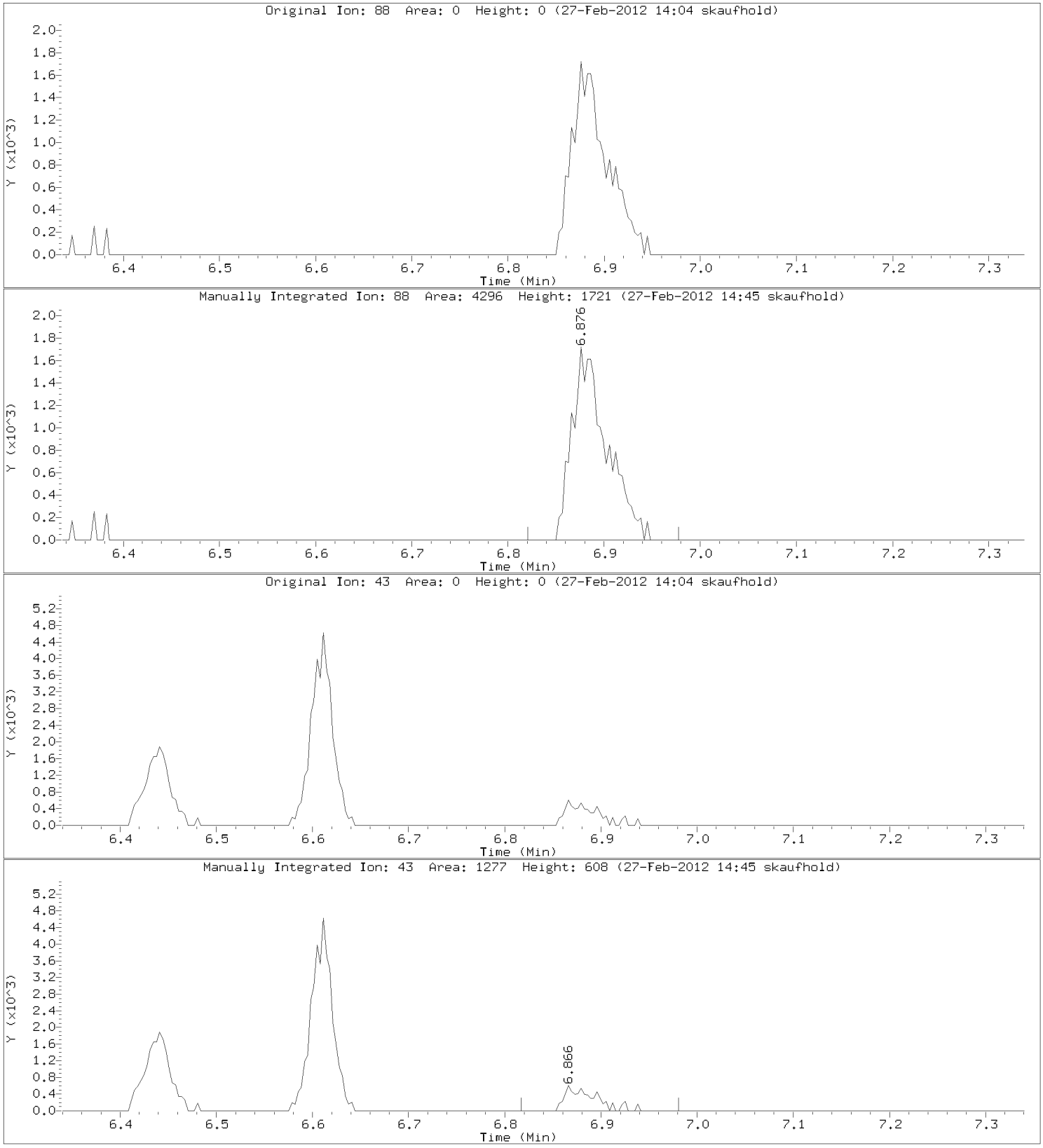


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Lab Sample ID: ICAL 2



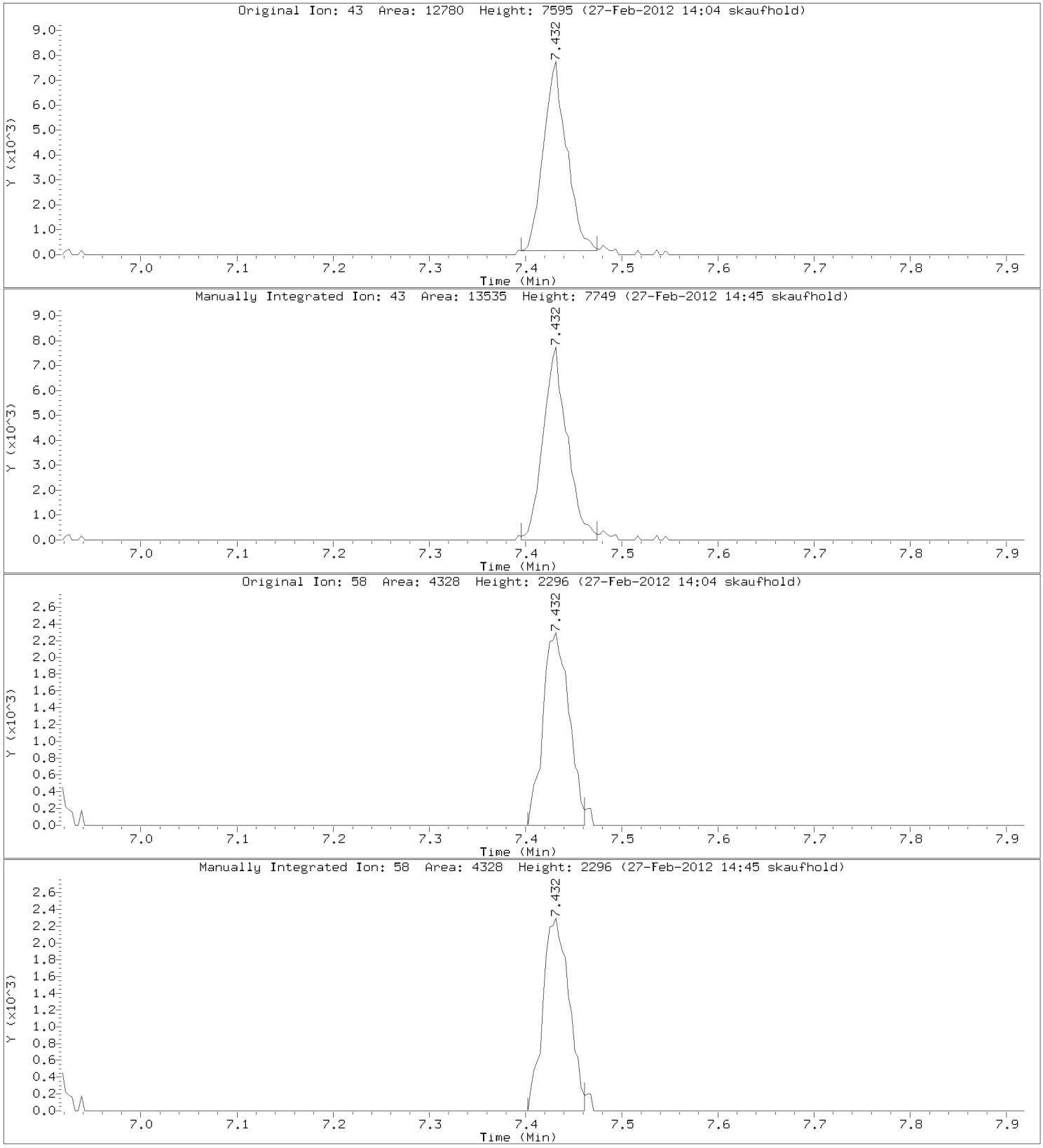
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,4-Dioxane
CAS Number: 123-91-1

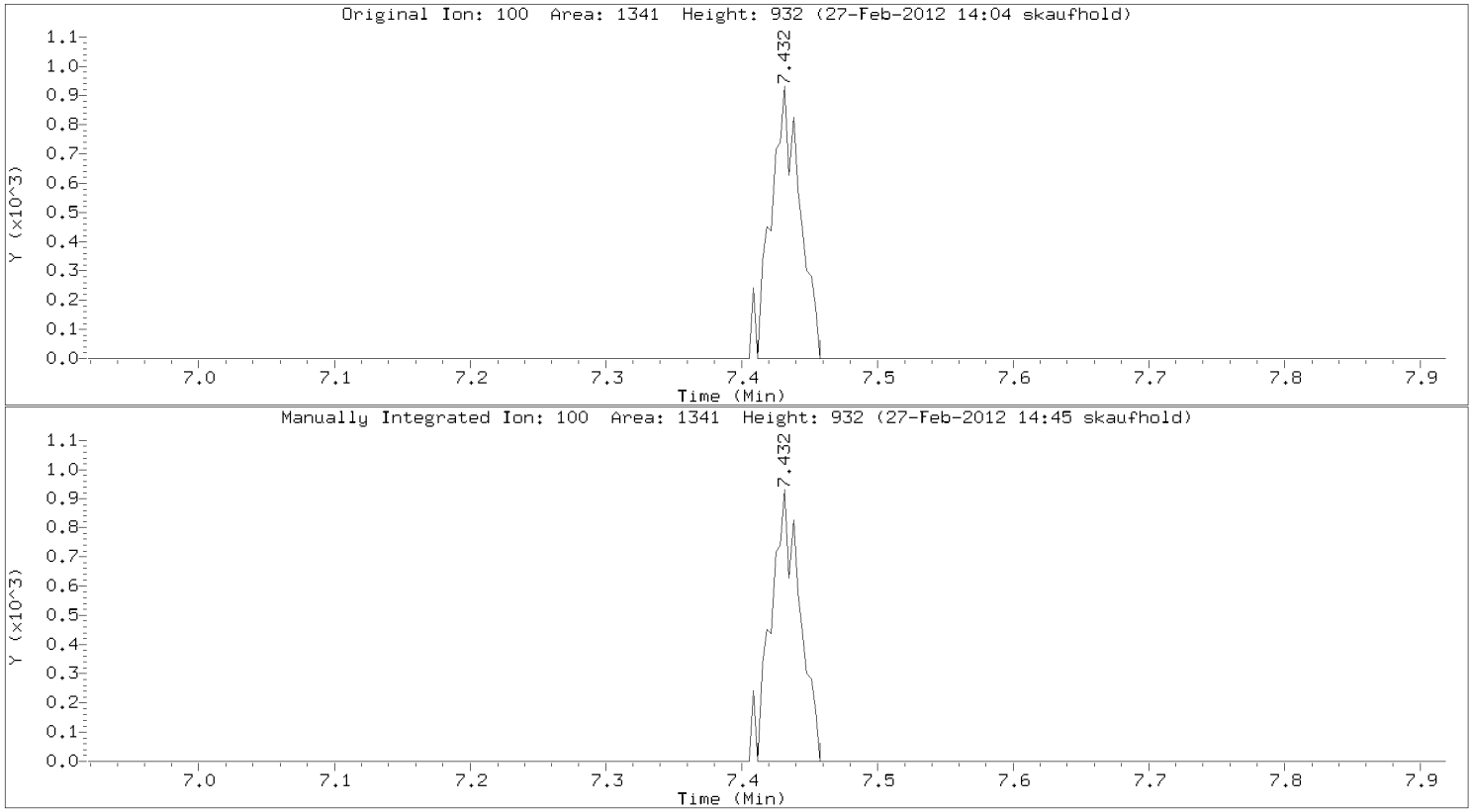


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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Methyl Isobutyl Ketone
CAS Number: 108-10-1

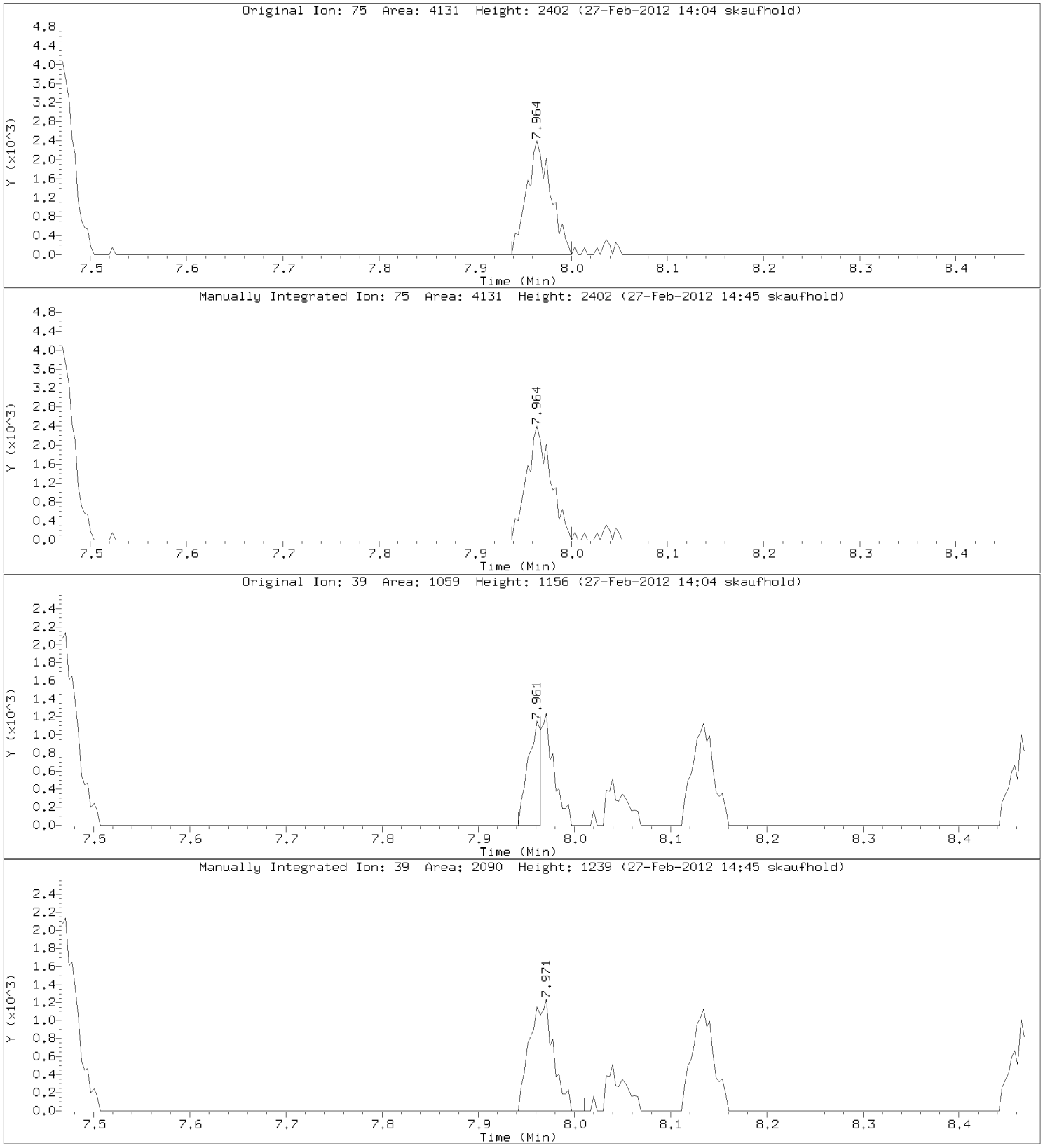


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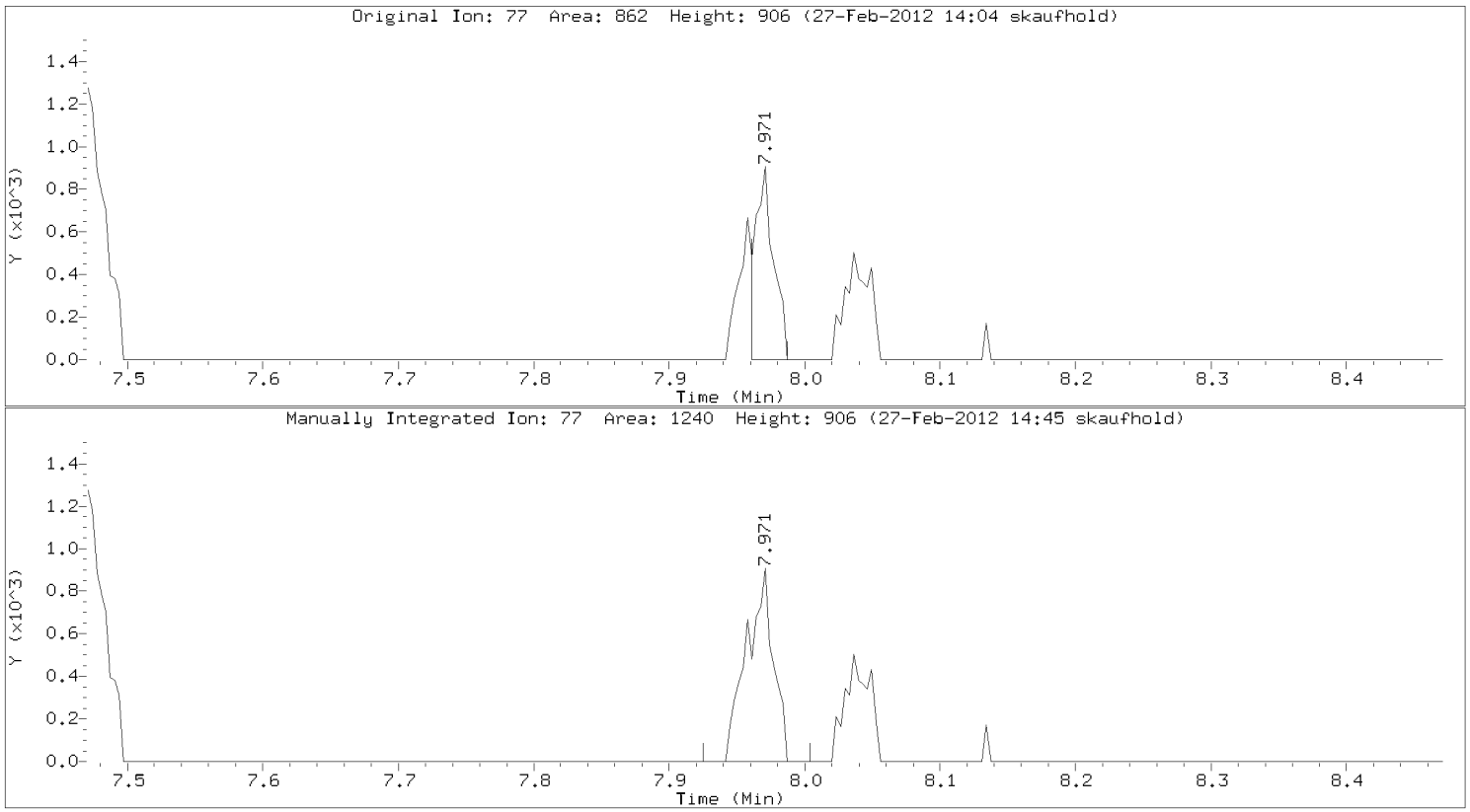


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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

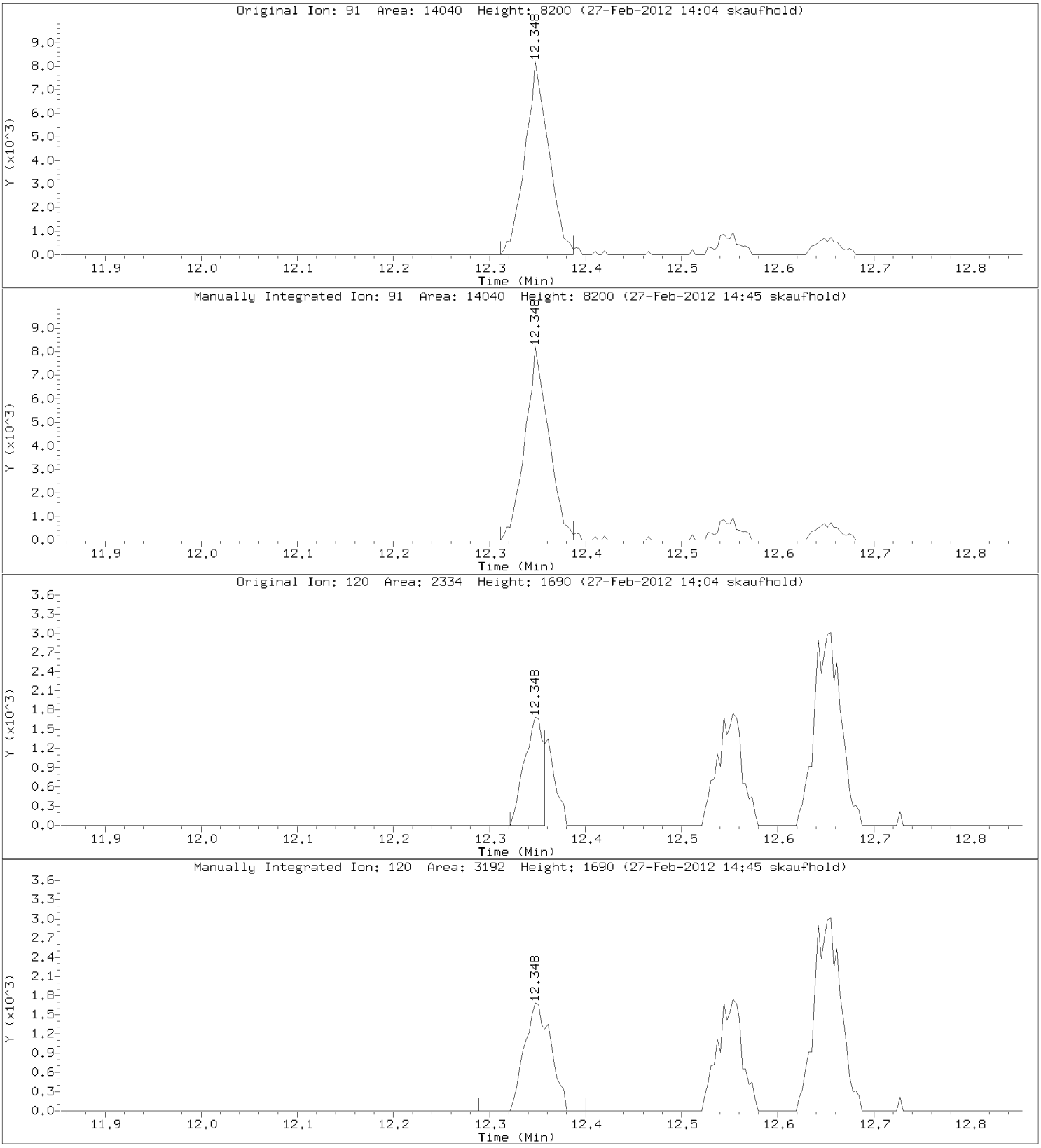


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Instrument: 10airD.i
Lab Sample ID: ICAL 2



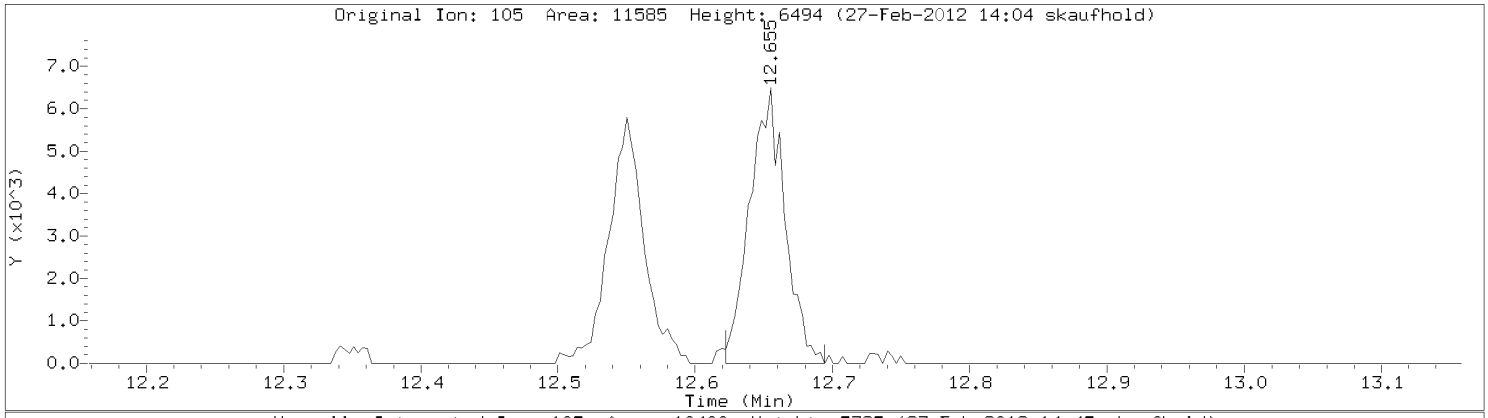
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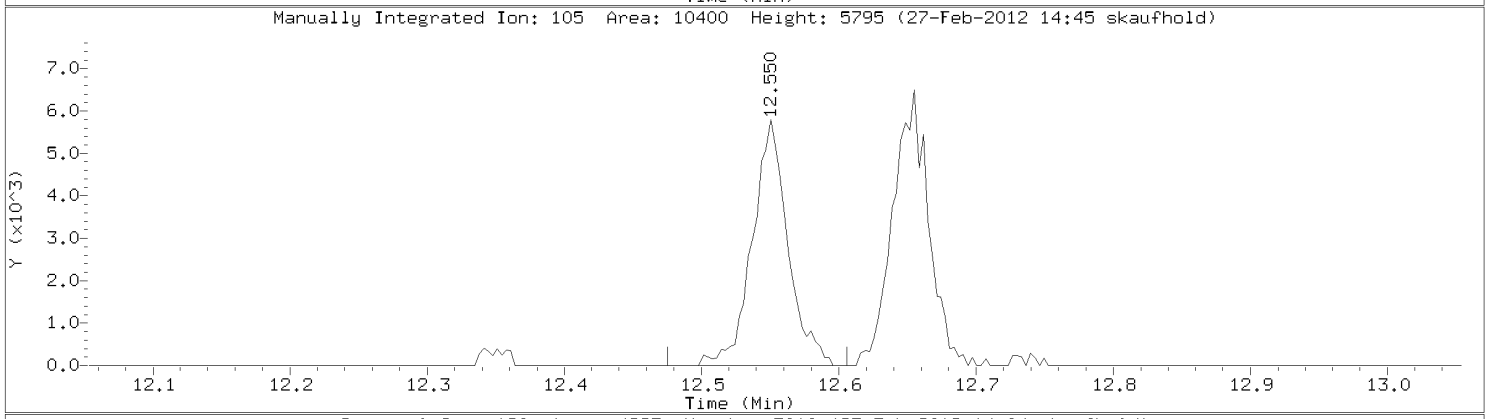
Compound: N-Propylbenzene
CAS Number: 103-65-1

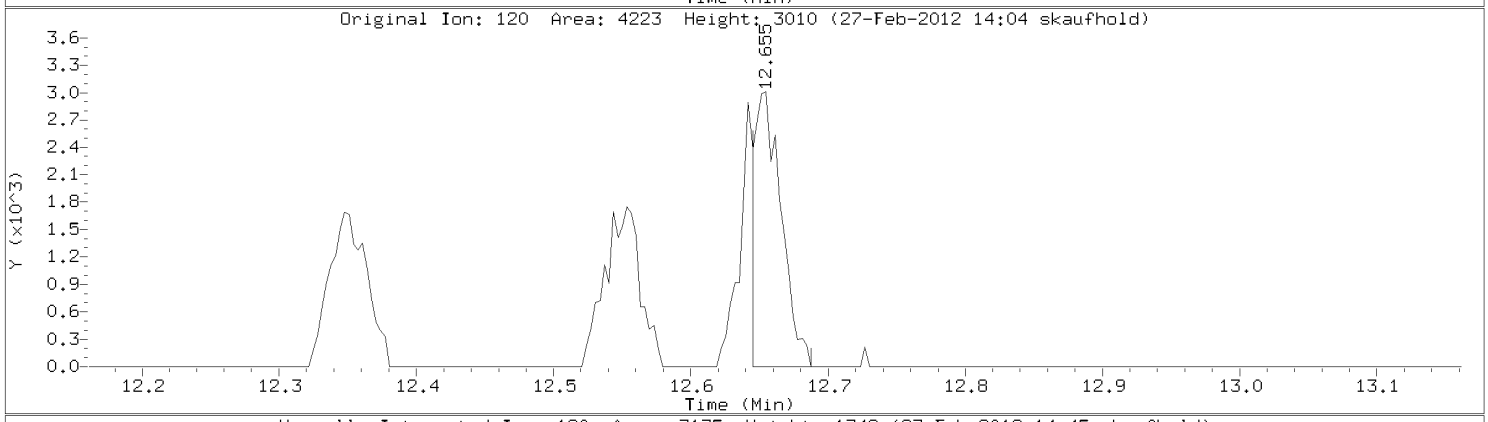


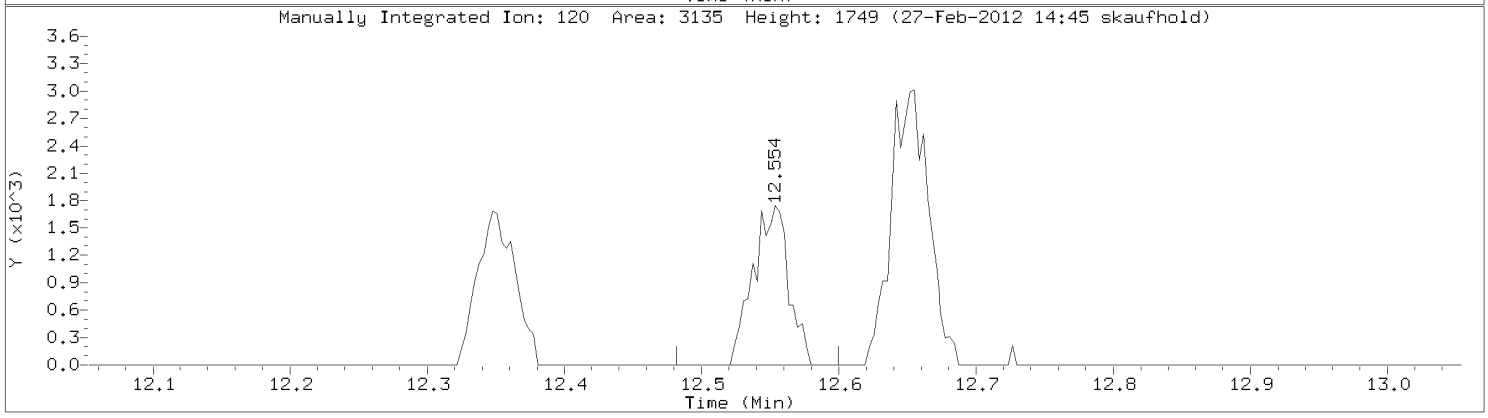
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

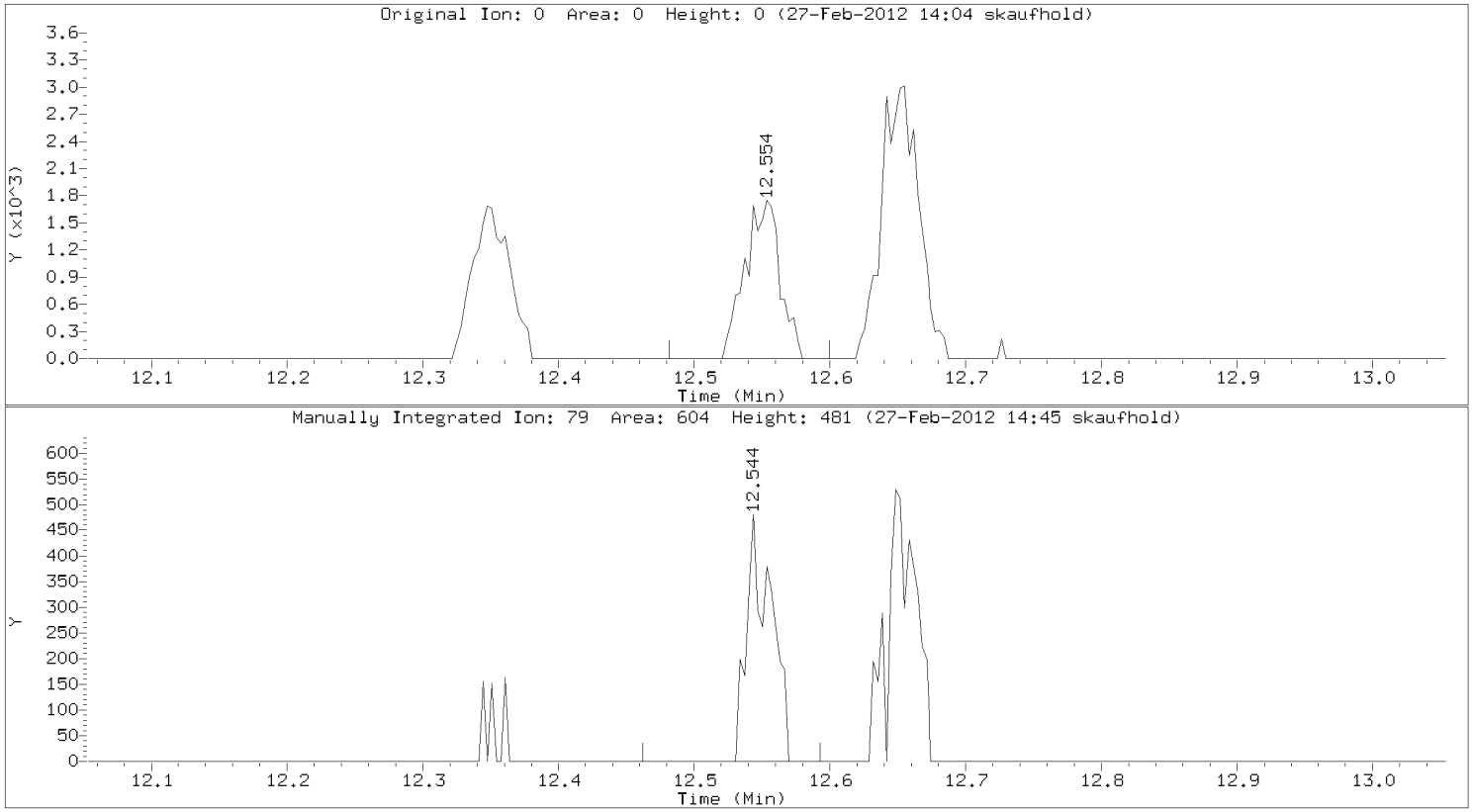






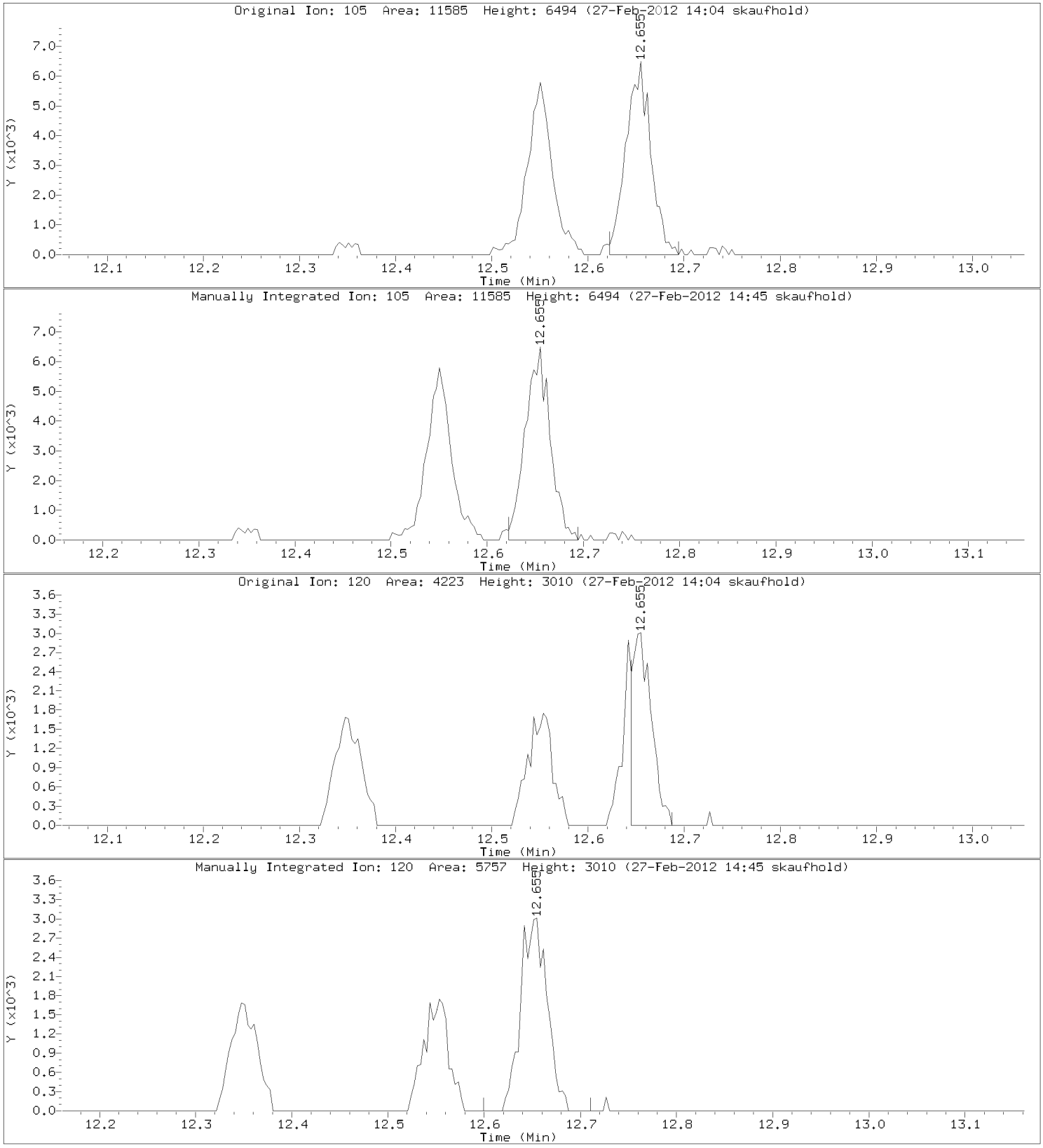


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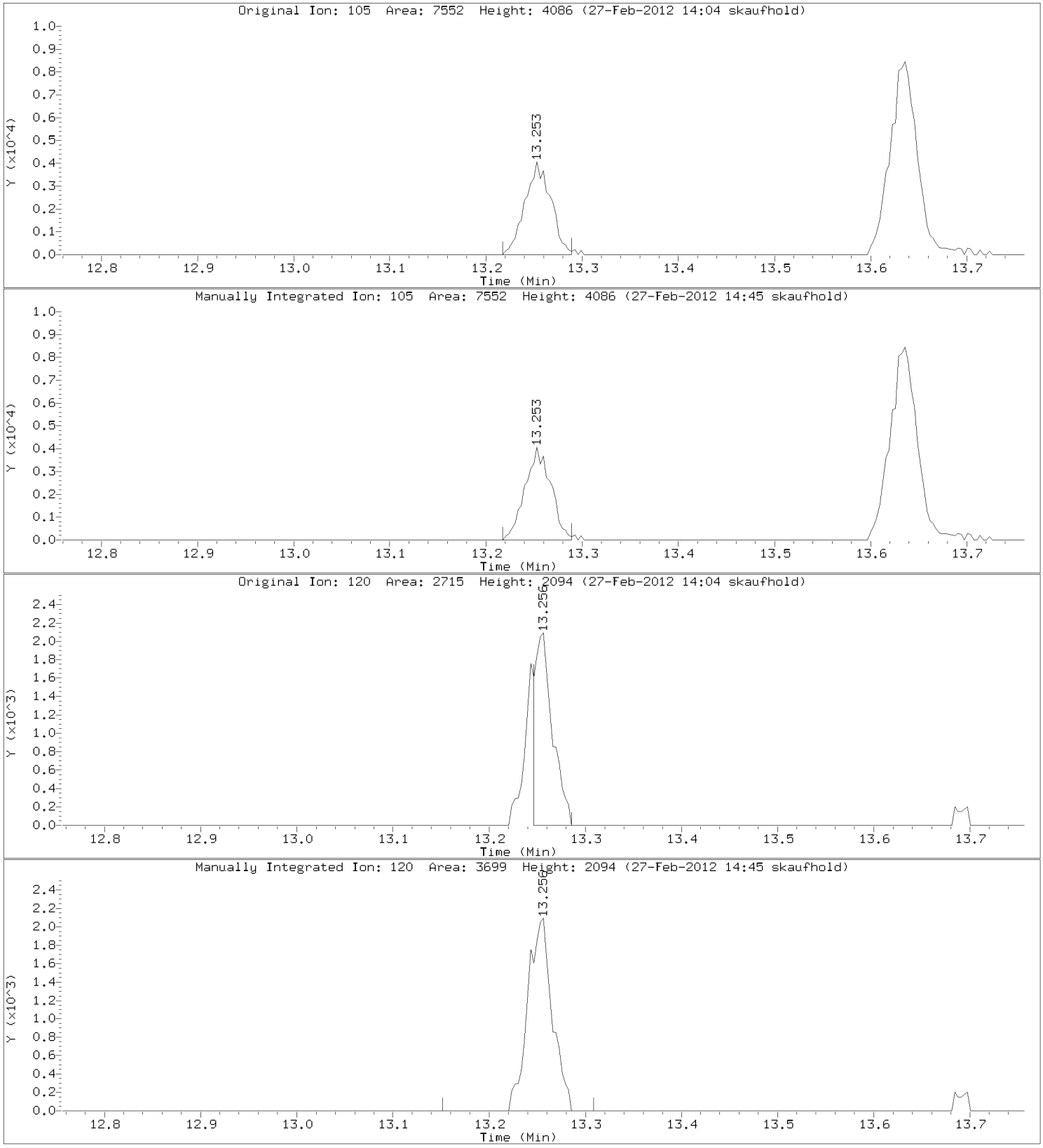
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



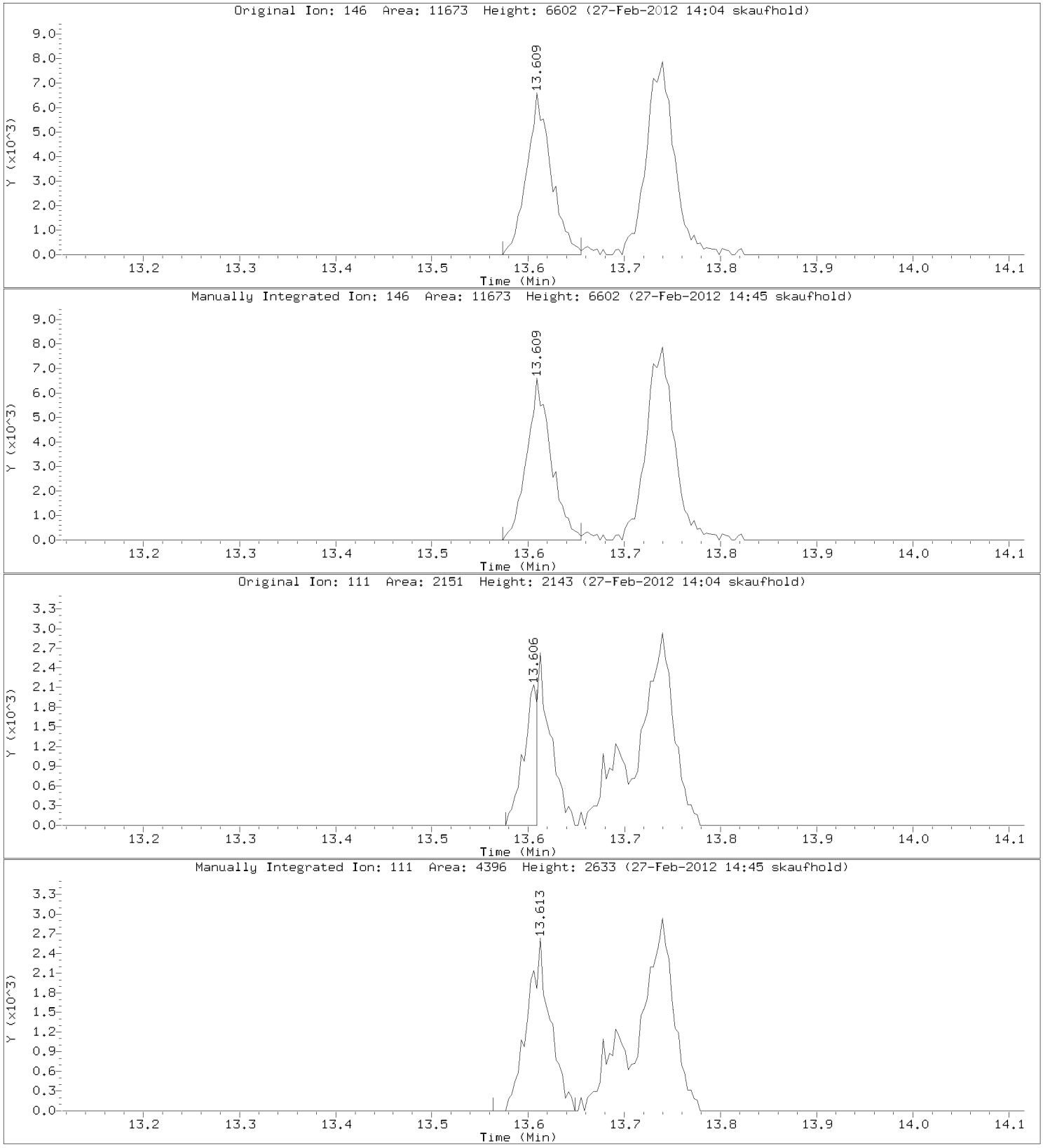
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6

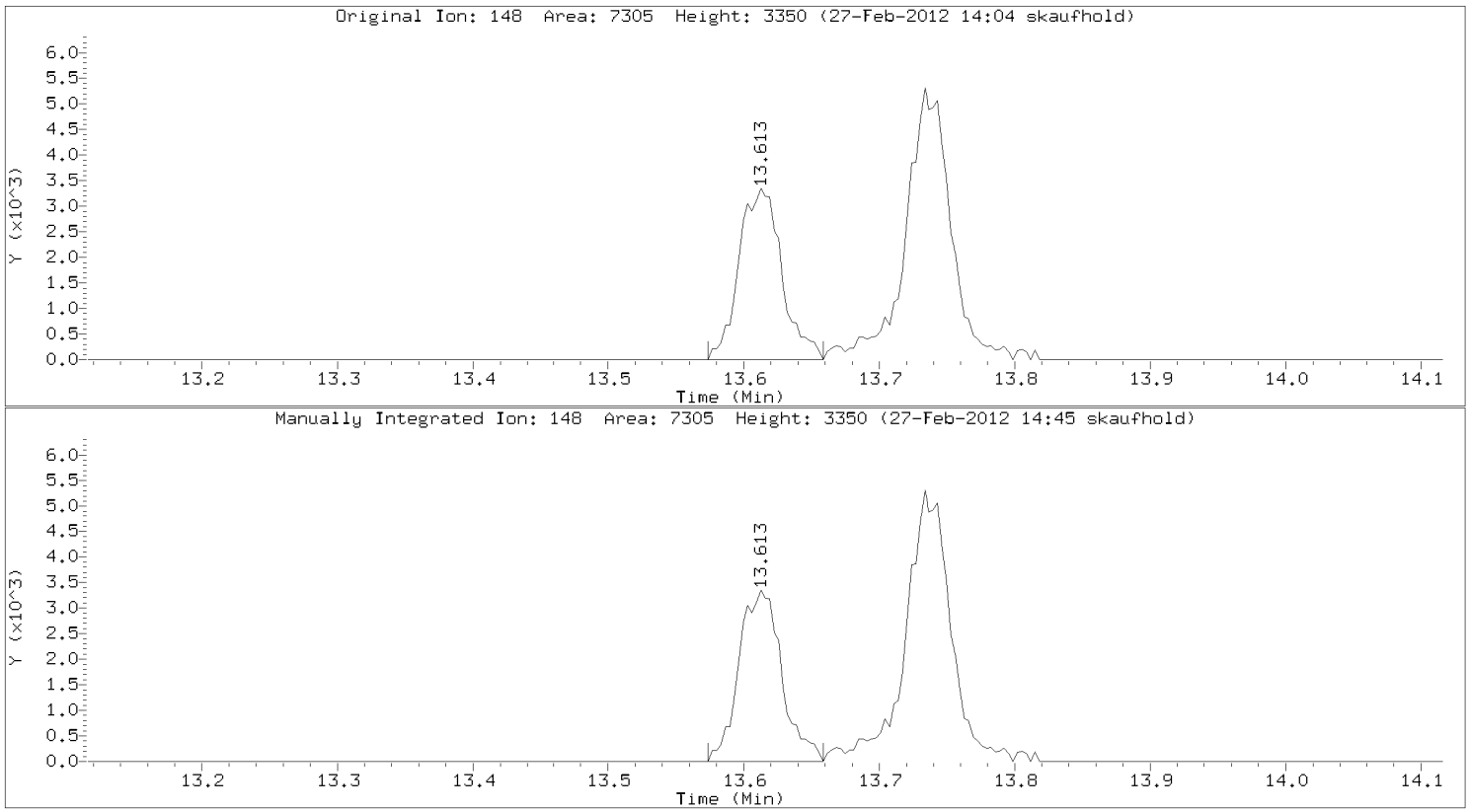


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05806.D
Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

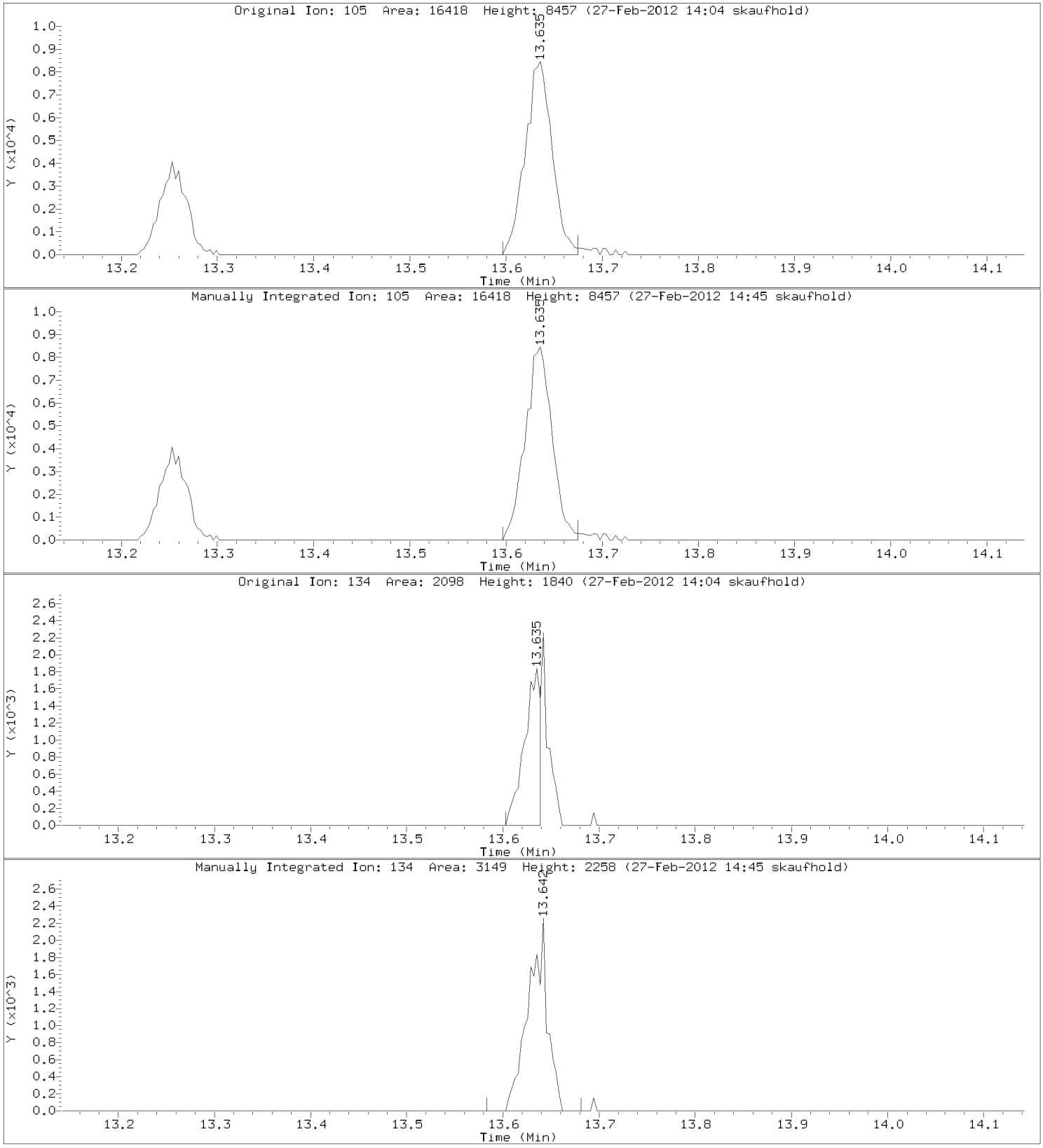


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Instrument: 10airD.i
Lab Sample ID: ICAL 2



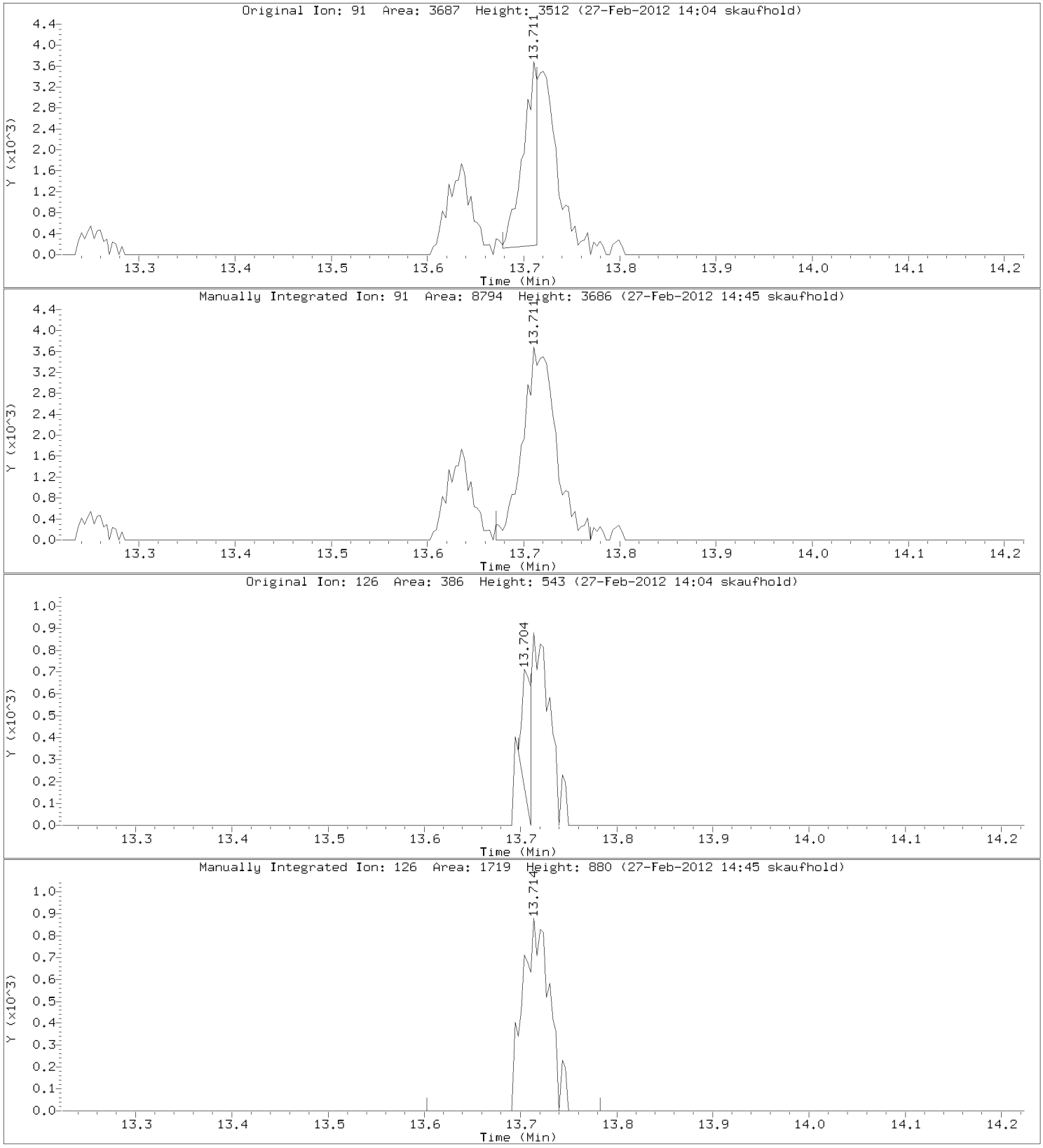
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Sec- Butylbenzene
CAS Number: 135-98-8



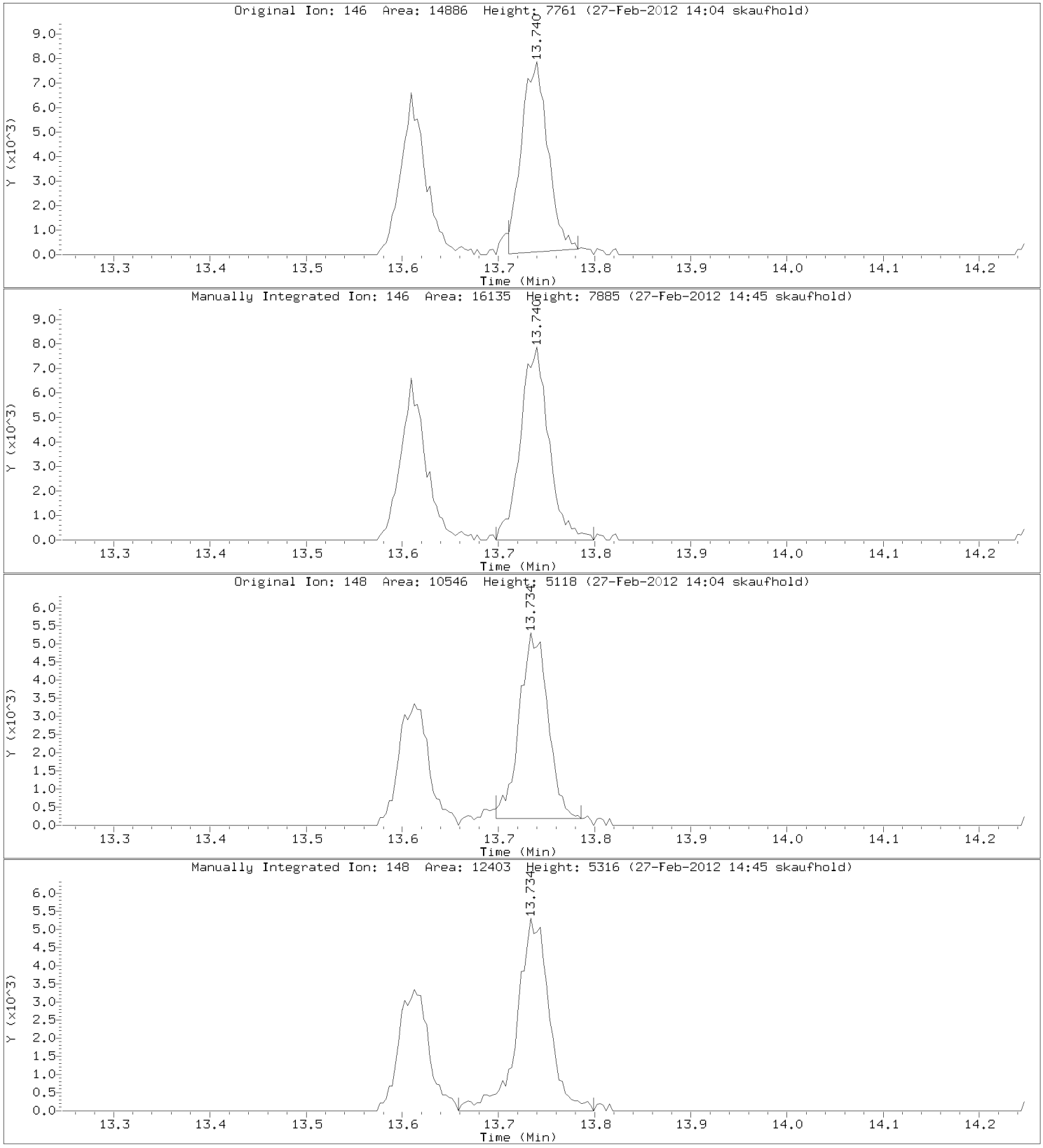
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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: Benzyl Chloride
CAS Number: 100-44-7

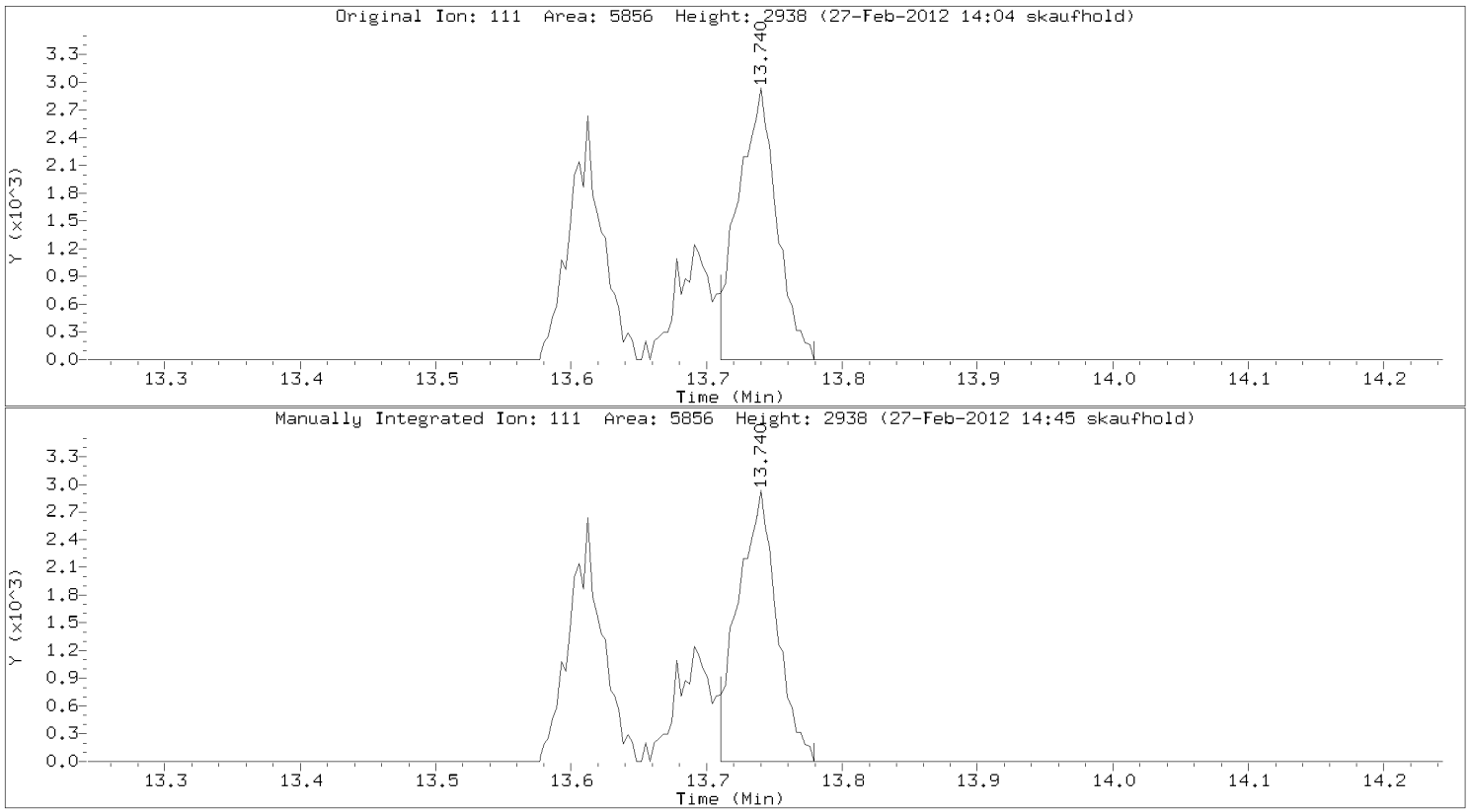


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05806.D
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Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

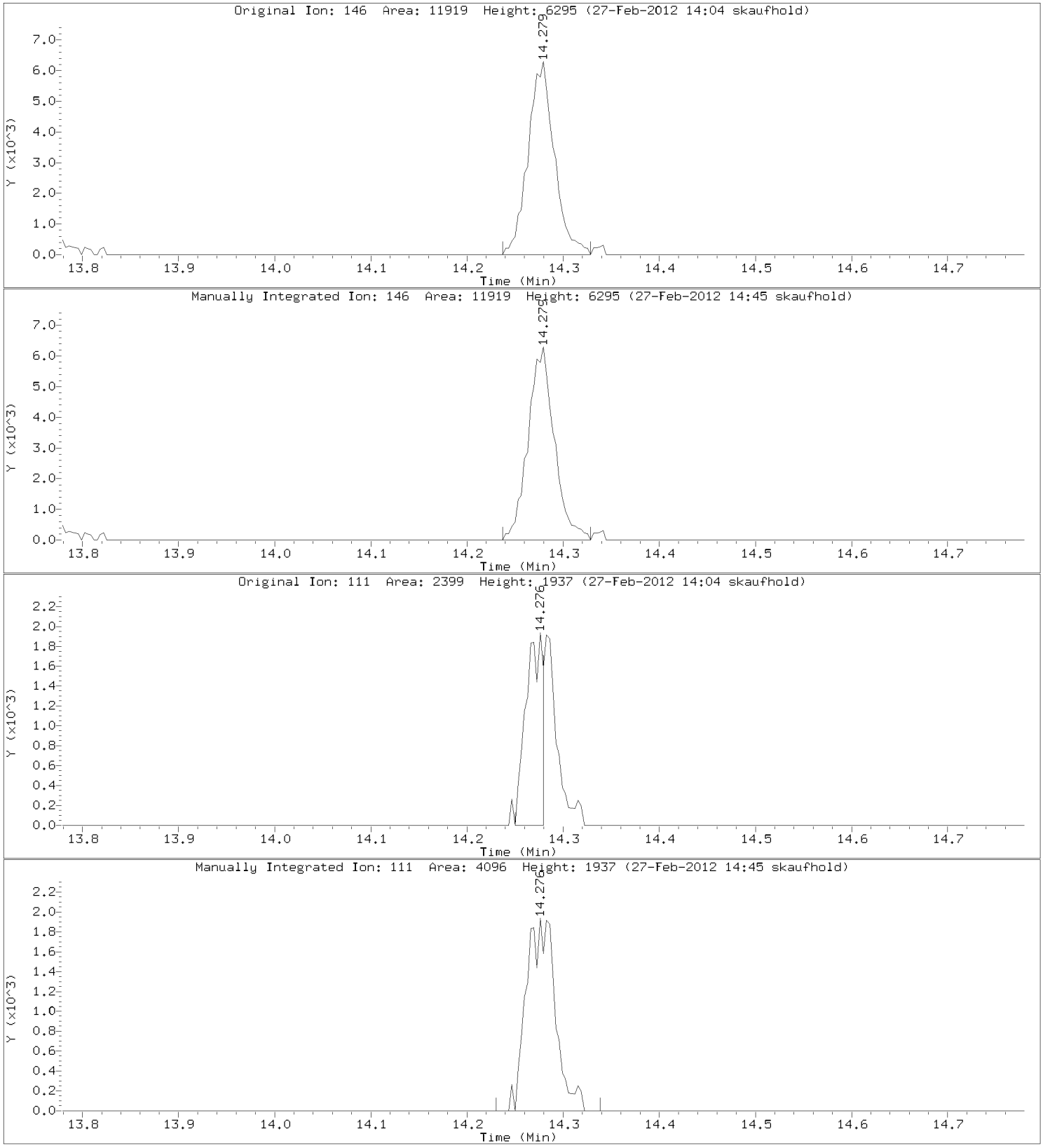


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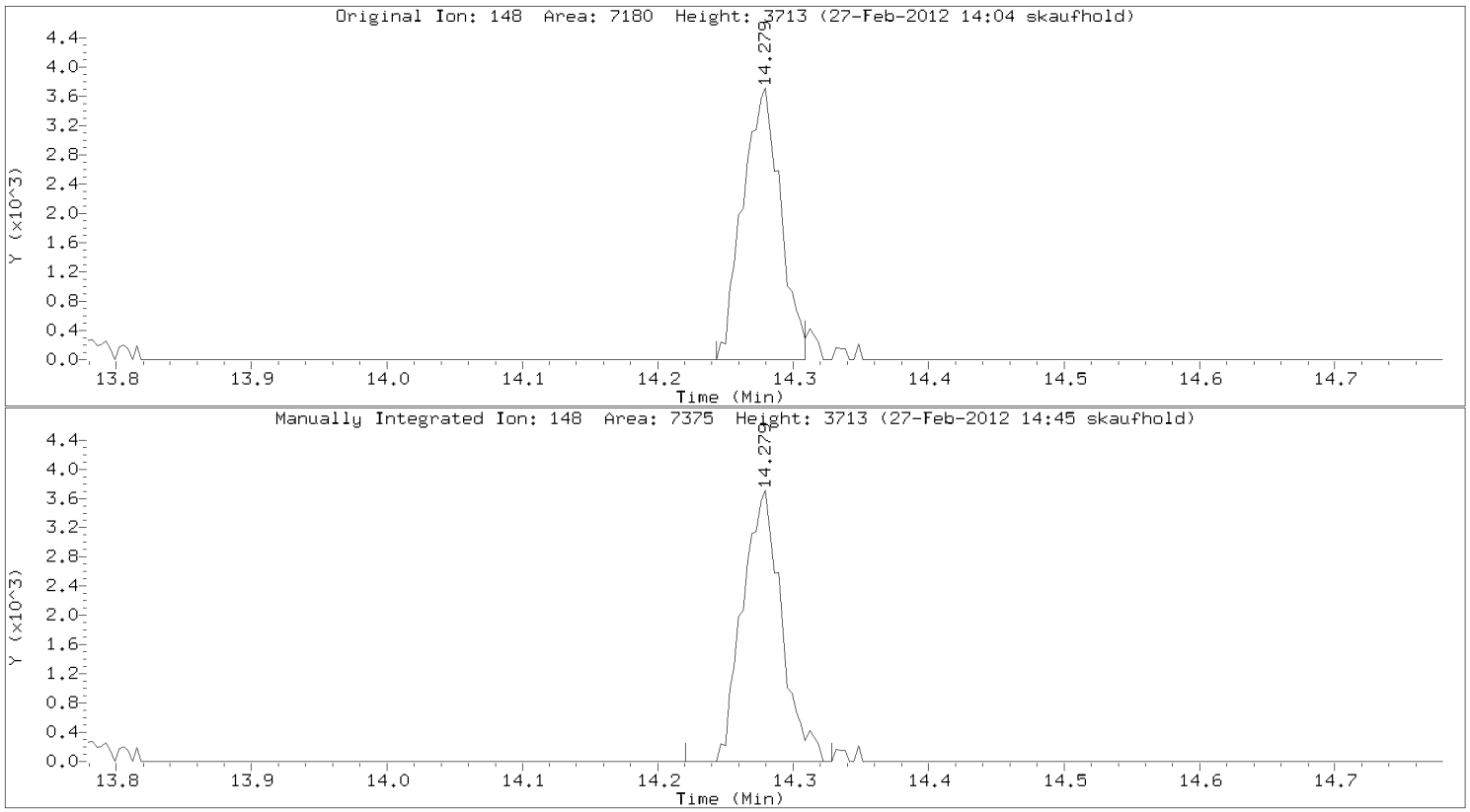


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Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2

Compound: 1,2-Dichlorobenzene
CAS Number: 95-50-1



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05806.D
Injection Date: 27-FEB-2012 12:47
Instrument: 10airD.i
Lab Sample ID: ICAL 2



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Lab Smp Id: ICAL 3
Inj Date : 27-FEB-2012 13:17
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 14:45 10airD.i Quant Type: ISTD
Cal Date : 27-FEB-2012 12:47 Cal File: 05806.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Propylene	41	3.058	3.058	(0.489)	5662	0.50000	0.394
2	Dichlorodifluoromethane	85	3.087	3.087	(0.493)	40658	0.50000	0.427
3	Dichlorotetrafluoroethane	85	3.185	3.185	(0.509)	37851	0.50000	0.471
4	Chloromethane	50	3.192	3.192	(0.510)	15871	0.50000	0.474
5	Vinyl chloride	62	3.280	3.280	(0.524)	12212	0.50000	0.466
6	1,3-Butadiene	54	3.323	3.323	(0.531)	7612	0.50000	0.414
7	Bromomethane	94	3.479	3.479	(0.556)	11577	0.50000	0.467
8	Chloroethane	64	3.542	3.542	(0.566)	4747	0.50000	0.444(M)
9	Ethanol	31	3.594	3.594	(0.574)	9632	0.50000	0.424(M)
10	Vinyl Bromide	106	3.682	3.682	(0.588)	14163	0.50000	0.447
11	Acrolein	56	3.793	3.793	(0.606)	3444	0.50000	0.400
12	Trichlorofluoromethane	101	3.797	3.797	(0.607)	45096	0.50000	0.471
13	Acetone	43	3.846	3.846	(0.615)	34654	0.50000	0.460
14	Isopropyl Alcohol	45	3.875	3.875	(0.619)	28382	0.50000	0.423(M)
15	1,1-Dichloroethene	61	4.087	4.087	(0.653)	24461	0.50000	0.479
16	Acrylonitrile	53	4.104	4.104	(0.656)	9226	0.50000	0.432(M)
17	Tert Butyl Alcohol	59	4.127	4.127	(0.659)	37165	0.50000	0.489(M)
18	Freon 113	101	4.143	4.143	(0.662)	32829	0.50000	0.474
19	Methylene chloride	49	4.205	4.205	(0.672)	17855	0.50000	0.408
20	Allyl Chloride	76	4.221	4.221	(0.675)	5207	0.50000	0.423(M)
21	Carbon Disulfide	76	4.349	4.349	(0.695)	28485	0.50000	0.323
22	trans-1,2-dichloroethene	96	4.545	4.545	(0.726)	15037	0.50000	0.455
23	Methyl Tert Butyl Ether	73	4.597	4.597	(0.735)	30405	0.50000	0.412(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Report Date: 27-Feb-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Vinyl Acetate	43	4.712	4.712	(0.753)	25514	0.50000	0.412(M)
	25 1,1-Dichloroethane	63	4.708	4.708	(0.752)	25798	0.50000	0.472
$	26 Hexane-d14(S)	66	4.833	4.833	(0.772)	327674	10.0000	10.2
	27 Methyl Ethyl Ketone	72	4.927	4.927	(0.787)	8012	0.50000	0.422(Q)
	28 n-Hexane	57	4.954	4.954	(0.792)	19311	0.50000	0.473
	29 cis-1,2-Dichloroethene	96	5.114	5.114	(0.817)	12967	0.50000	0.435
	30 Ethyl Acetate	43	5.146	5.146	(0.822)	35063	0.50000	0.401(M)
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.258	5.258	(0.840)	34525	0.50000	0.469
	33 Tetrahydrofuran	42	5.483	5.483	(0.876)	10647	0.50000	0.388
	34 1,1,1-Trichloroethane	97	5.751	5.751	(0.919)	33108	0.50000	0.429
	35 1,2-Dichloroethane	62	5.768	5.768	(0.922)	22888	0.50000	0.428
	36 Benzene	78	6.045	6.045	(0.966)	36049	0.50000	0.435
	37 Carbon tetrachloride	117	6.068	6.068	(0.970)	38762	0.50000	0.437
	38 Cyclohexane	56	6.075	6.075	(0.971)	14598	0.50000	0.403(M)
*	39 1,4-Difluorobenzene	114	6.258	6.258	(1.000)	1354239	10.0000	
	40 2,2,4-Trimethylpentane	57	6.438	6.438	(1.029)	47674	0.50000	0.408
	41 Heptane	43	6.611	6.611	(1.056)	18858	0.50000	0.411
	42 1,2-Dichloropropane	63	6.683	6.683	(1.068)	13622	0.50000	0.460(M)
	43 Trichloroethene	130	6.706	6.706	(1.072)	21690	0.50000	0.420
	44 1,4-Dioxane	88	6.869	6.869	(1.098)	11349	0.50000	0.394(M)
	45 Bromodichloromethane	83	6.827	6.827	(1.091)	31068	0.50000	0.419
	46 Methyl Isobutyl Ketone	43	7.425	7.425	(1.186)	37095	0.50000	0.364
	47 cis-1,3-Dichloropropene	75	7.464	7.464	(1.193)	19048	0.50000	0.417
	48 trans-1,3-Dichloropropene	75	7.967	7.967	(1.273)	9889	0.50000	0.391(M)
$	49 Toluene-d8 (S)	98	8.042	8.042	(1.285)	1131926	10.0000	10.0
	50 Toluene	91	8.134	8.134	(1.300)	43051	0.50000	0.419
	51 1,1,2-Trichloroethane	97	8.141	8.141	(1.301)	17400	0.50000	0.445
	52 Methyl Butyl Ketone	43	8.461	8.461	(0.854)	42350	0.50000	0.420
	53 Dibromochloromethane	129	8.762	8.762	(0.885)	28232	0.50000	0.443
	54 1,2-Dibromoethane	107	9.036	9.036	(0.912)	22557	0.50000	0.432
	55 Tetrachloroethene	166	9.131	9.131	(0.922)	22954	0.50000	0.439
*	56 Chlorobenzene - d5	117	9.906	9.906	(1.000)	765288	10.0000	
	57 Chlorobenzene	112	9.955	9.955	(1.005)	36963	0.50000	0.430
	58 Ethyl Benzene	91	10.259	10.259	(1.036)	36031	0.50000	0.413
	59 m&p-Xylene	91	10.432	10.432	(1.053)	68295	1.00000	0.854
	60 2-Heptanone	43	10.703	10.703	(1.710)	71629	0.50000	0.423(A)
	61 Bromoform	173	10.883	10.883	(1.099)	26873	0.50000	0.433
	62 Styrene	104	10.929	10.929	(1.103)	28424	0.50000	0.420
	63 o-Xylene	91	11.007	11.007	(1.111)	34325	0.50000	0.433
	64 1,1,2,2-Tetrachloroethane	83	11.318	11.318	(1.143)	39303	0.50000	0.445
	65 Isopropylbenzene	105	11.684	11.684	(1.179)	58649	0.50000	0.434
	66 N-Propylbenzene	91	12.351	12.351	(1.247)	41745	0.50000	0.396(M)
	67 4-Ethyltoluene	105	12.550	12.550	(1.267)	35369	0.50000	0.402(M)
	68 1,3,5-Trimethylbenzene	105	12.655	12.655	(1.277)	37843	0.50000	0.426
	69 1,2,4-Trimethylbenzene	105	13.256	13.256	(1.338)	24796	0.50000	0.385
	70 1,3-Dichlorobenzene	146	13.612	13.612	(1.374)	30475	0.50000	0.425
	71 Sec- Butylbenzene	105	13.635	13.635	(1.376)	57250	0.50000	0.409
$	72 1,4-dichlorobenzene-d4 (S)	150	13.691	13.691	(1.382)	339003	10.0000	9.88
	73 Benzyl Chloride	91	13.717	13.717	(1.385)	20358	0.50000	0.414(M)
	74 1,4-Dichlorobenzene	146	13.736	13.736	(1.387)	37626	0.50000	0.430(M)
	75 1,2-Dichlorobenzene	146	14.276	14.276	(1.441)	28313	0.50000	0.416
	76 N-Butylbenzene	91	14.554	14.554	(1.469)	39367	0.50000	0.394
	77 1,2,4-Trichlorobenzene	180	16.894	16.894	(1.705)	27372	0.50000	0.426

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Report Date: 27-Feb-2012 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78 Naphthalene	128	17.074	17.074	(1.724)	67130	0.50000	0.426
79 Hexachlorobutadiene	225	17.443	17.443	(1.761)	19138	0.50000	0.480

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05807.D
Lab Smp Id: ICAL 3
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

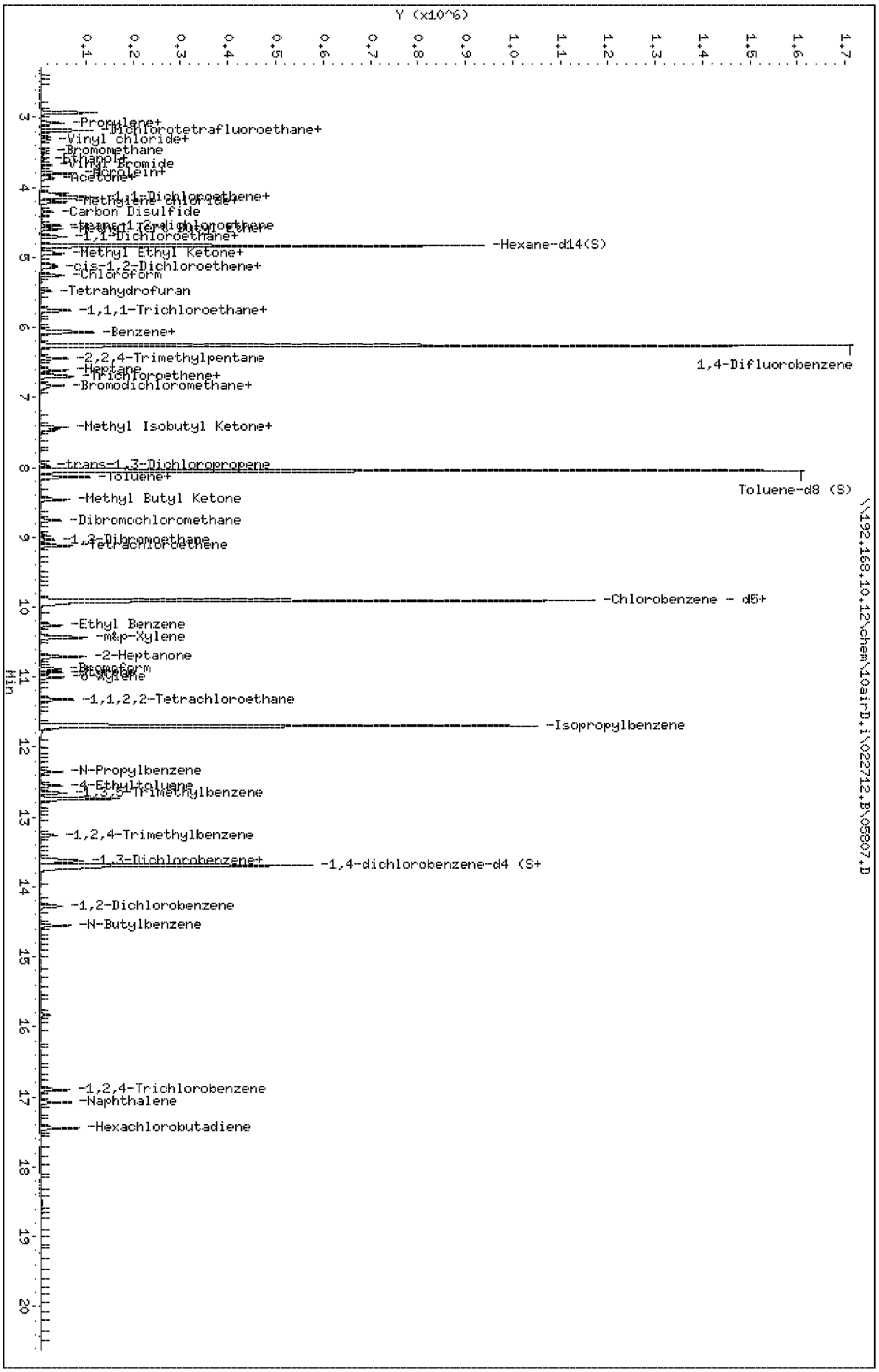
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1354239	3.53
56 Chlorobenzene - d	717767	430660	1004874	765288	6.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	-0.05
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

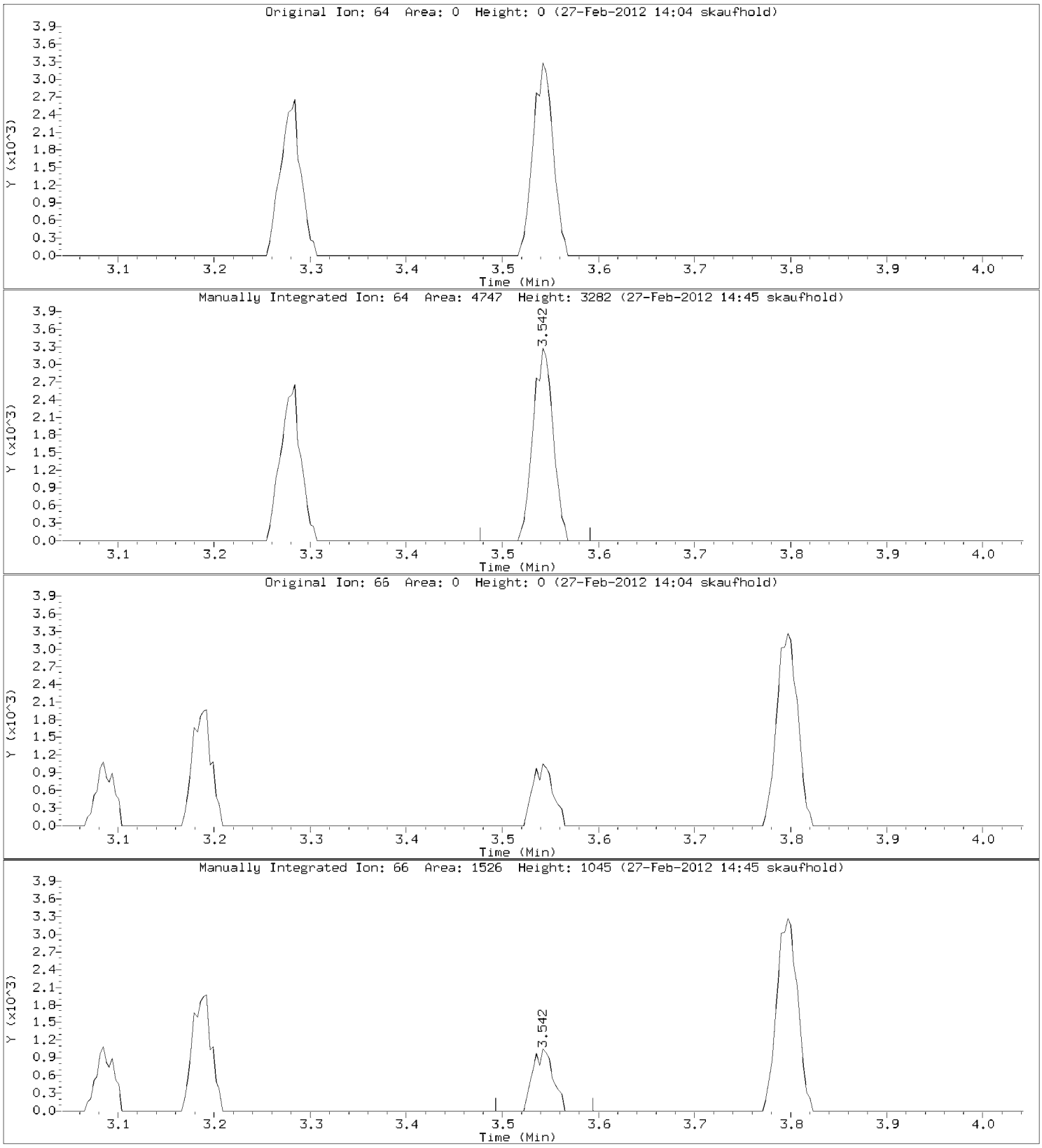
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05807.D
Date : 27-FEB-2012 13:17
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32

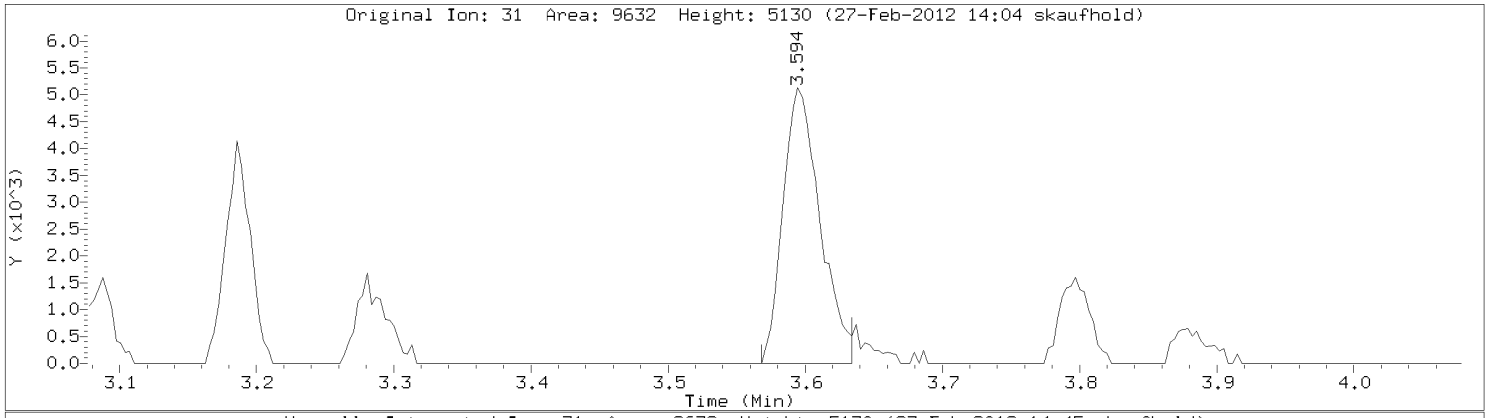
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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

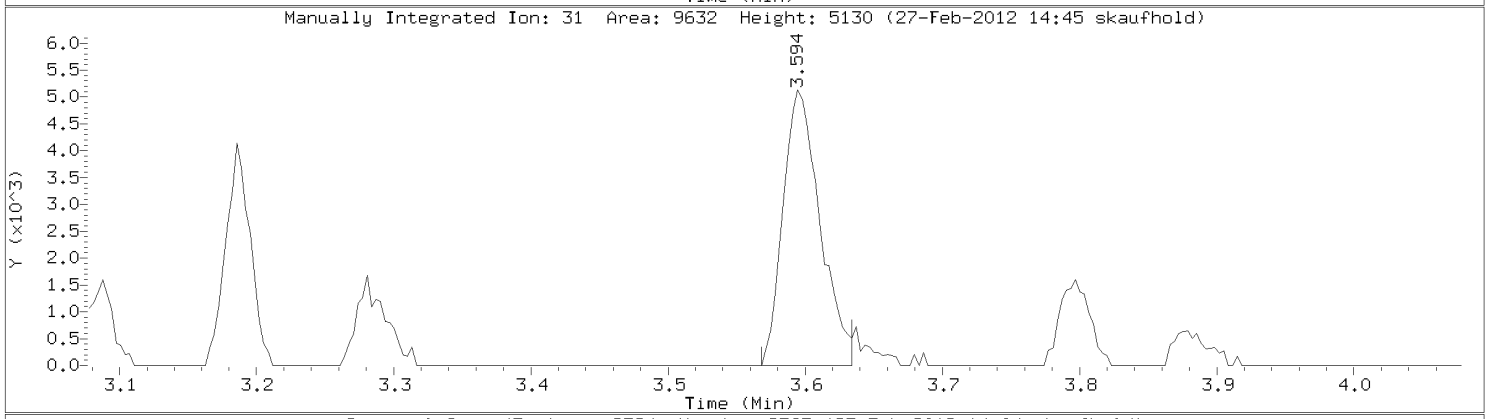
Compound: Chloroethane
CAS Number: 75-00-3

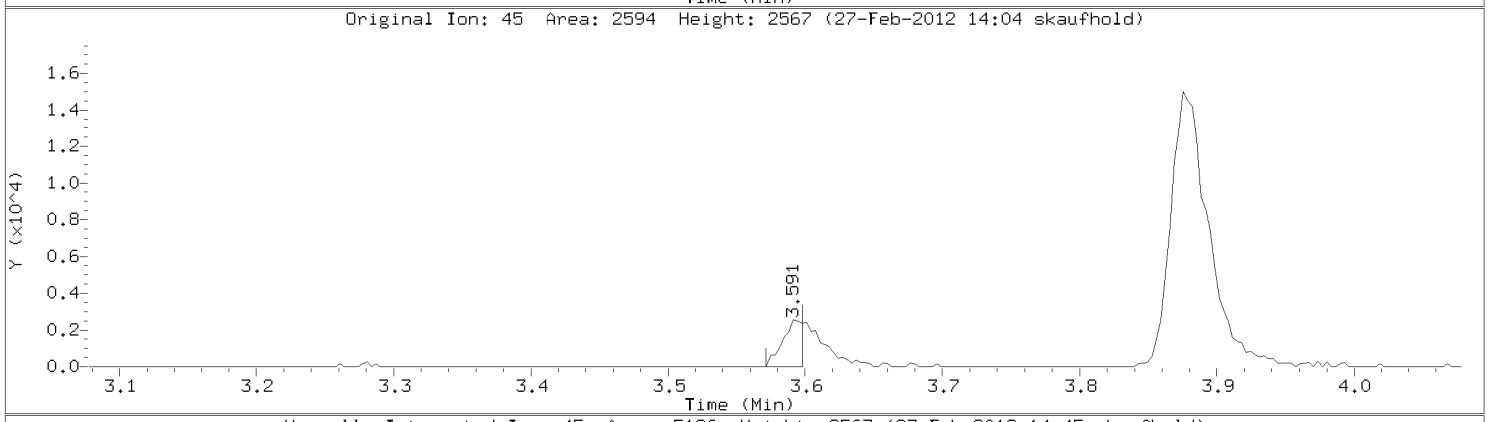


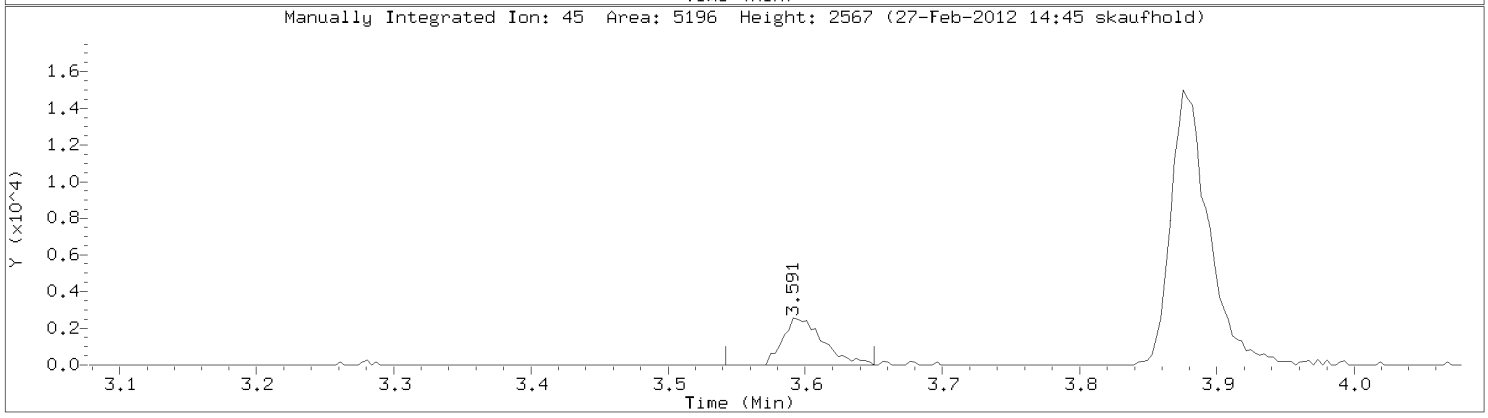
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Ethanol
CAS Number: 64-17-5



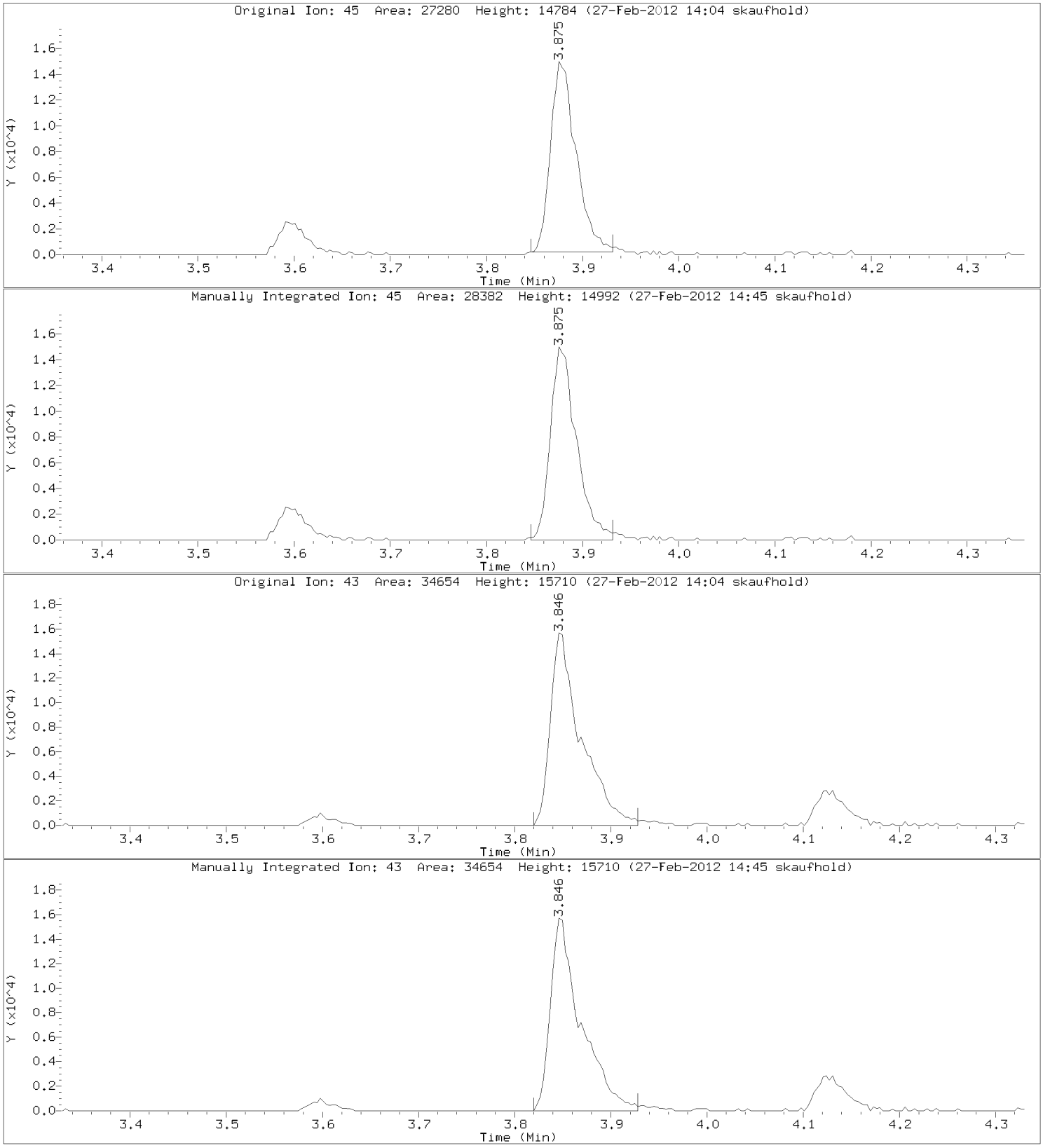






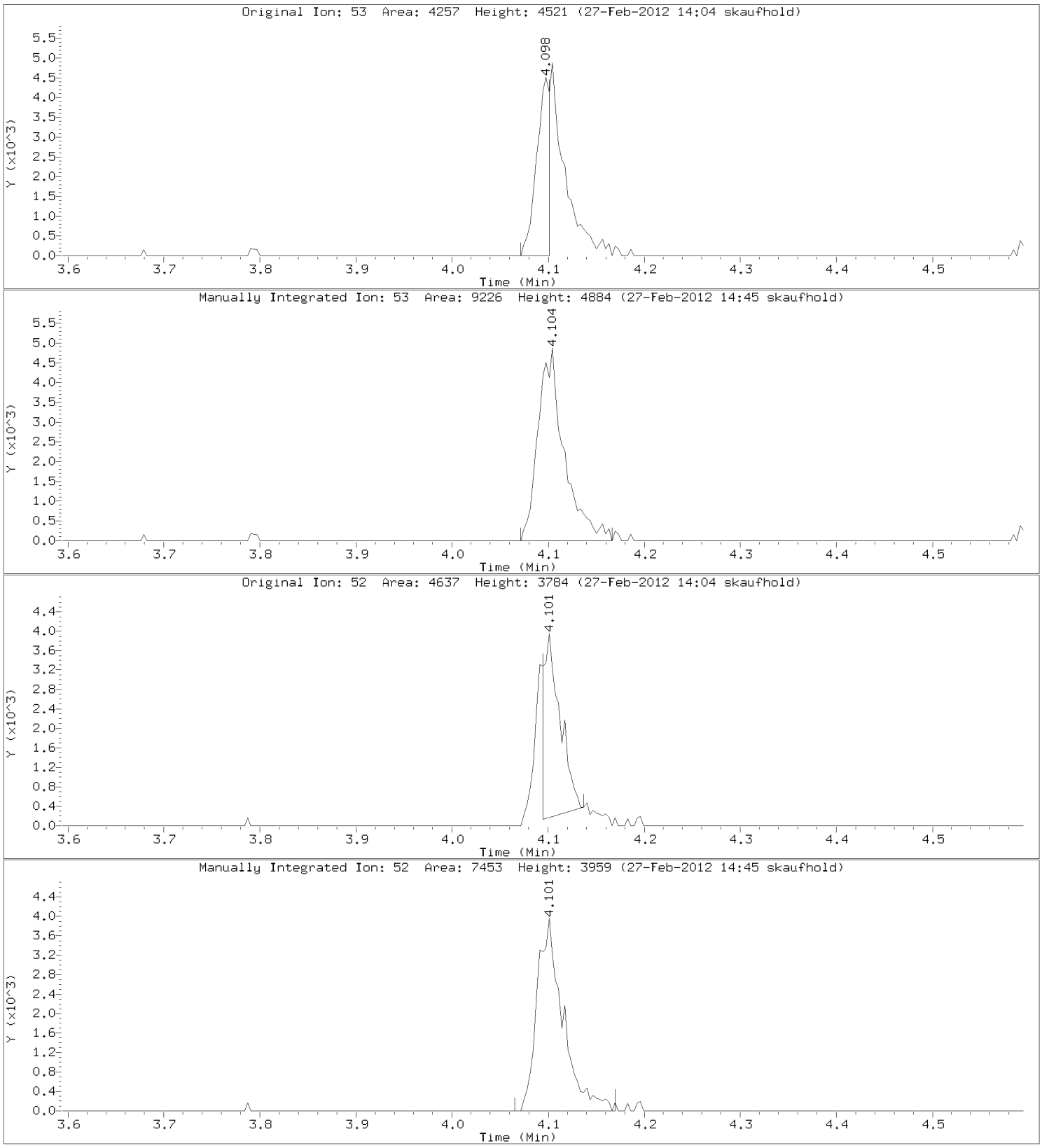
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



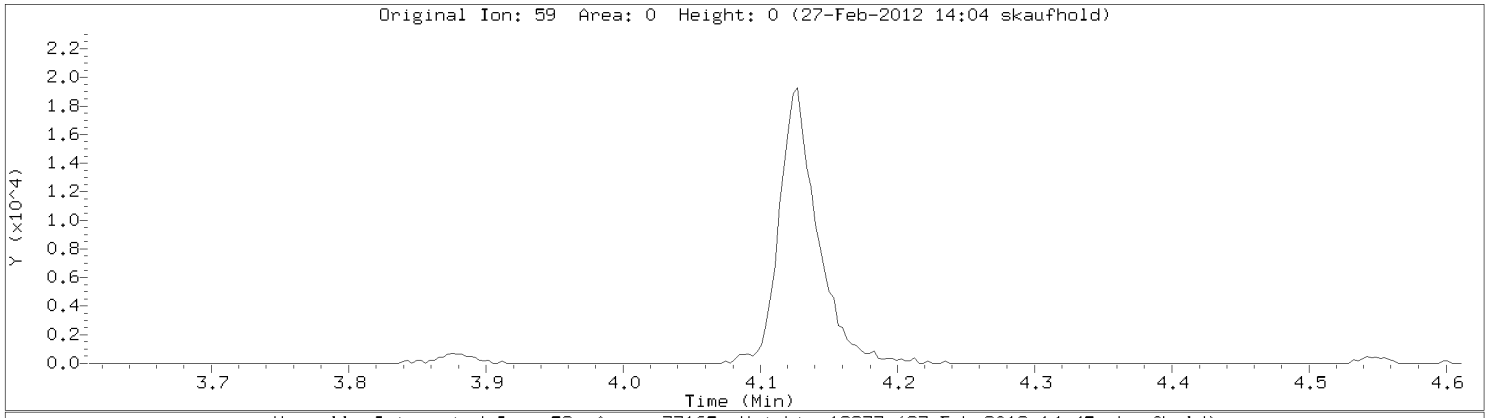
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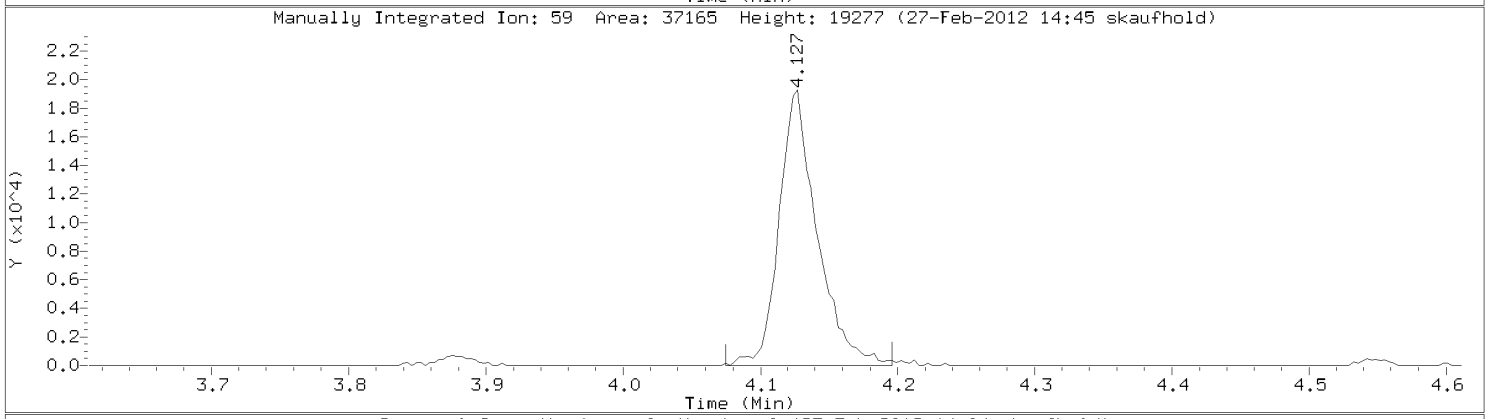
Compound: Acrylonitrile
CAS Number: 107-13-1

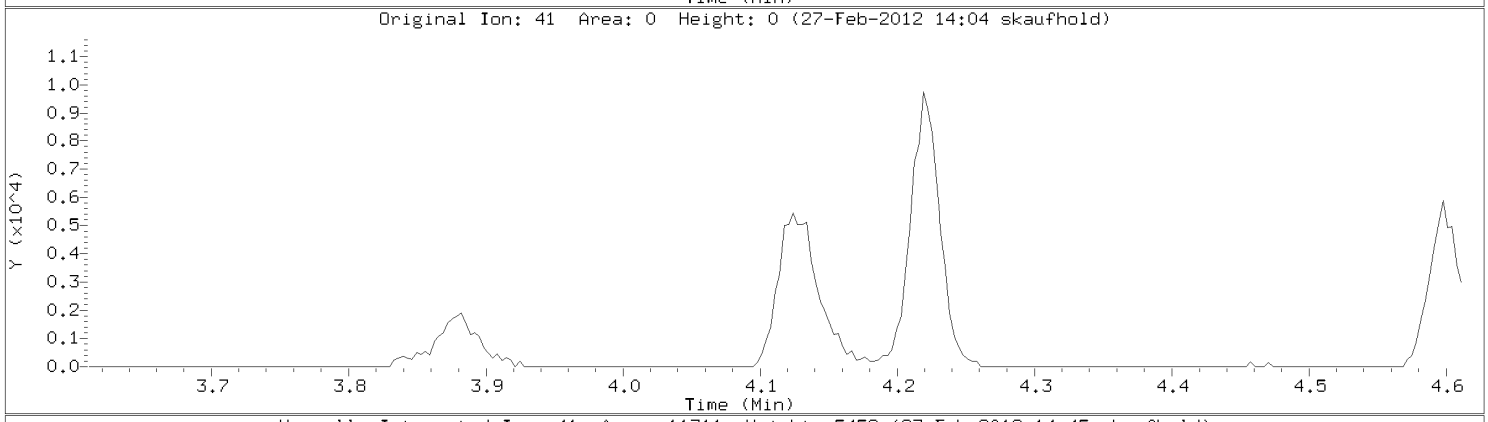


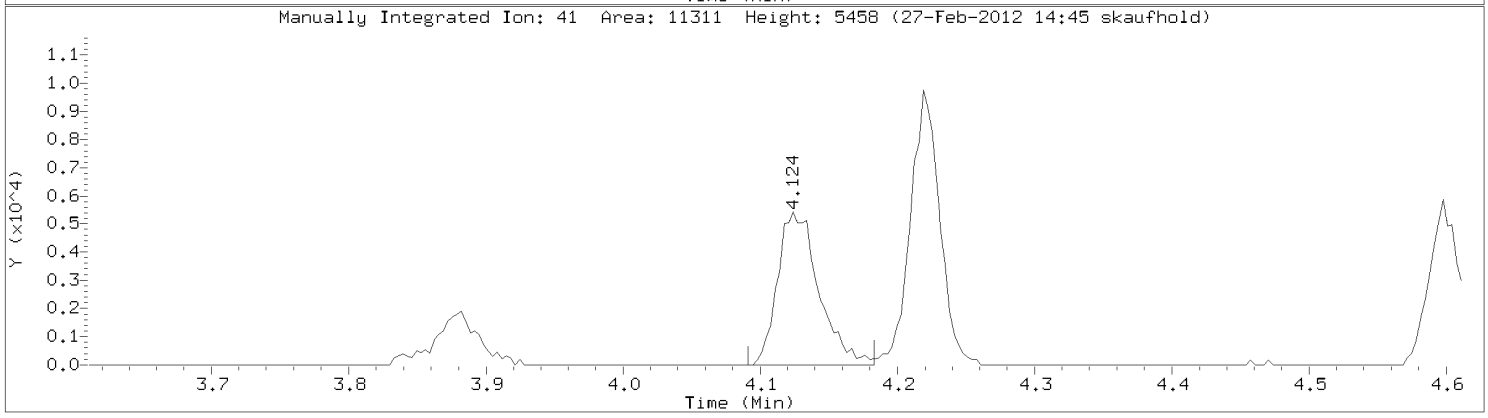
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



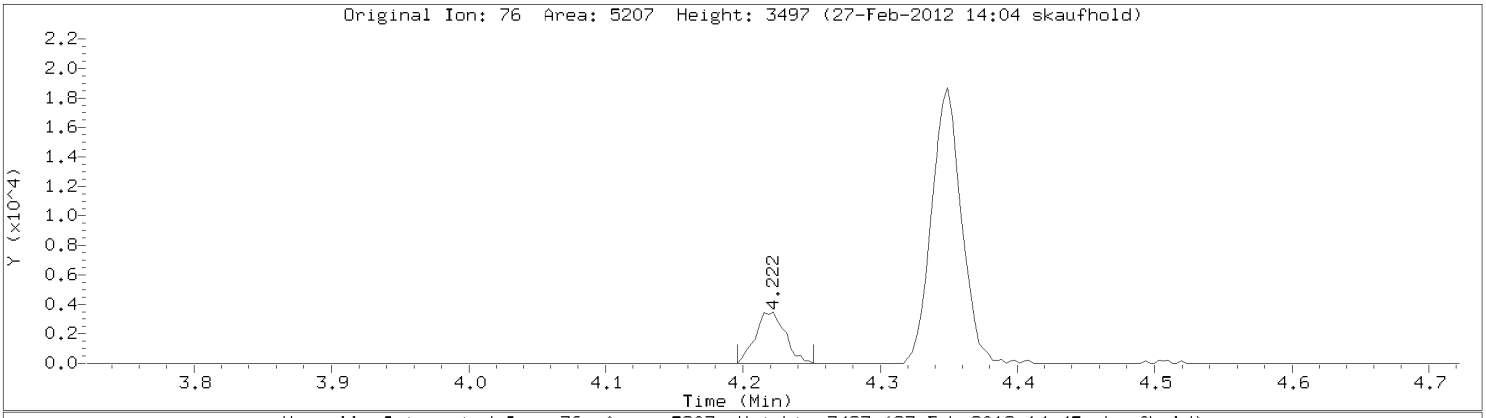


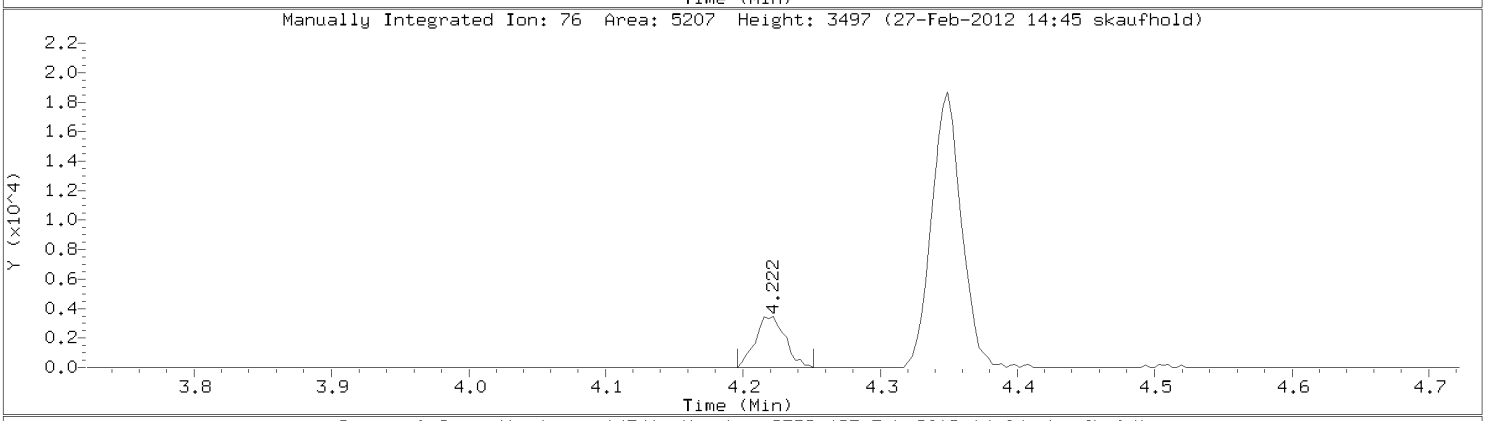


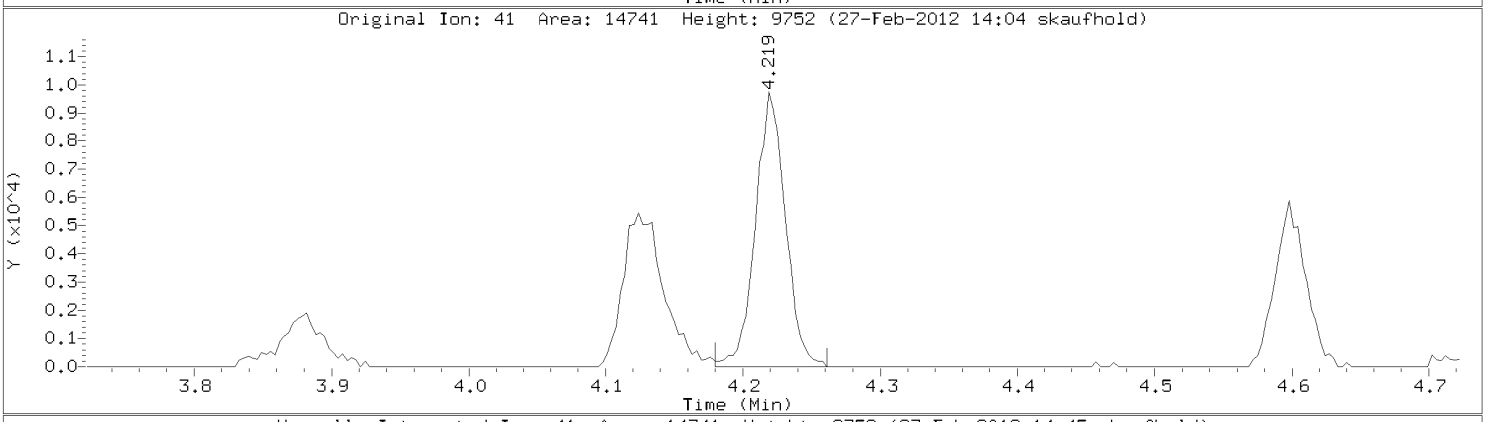


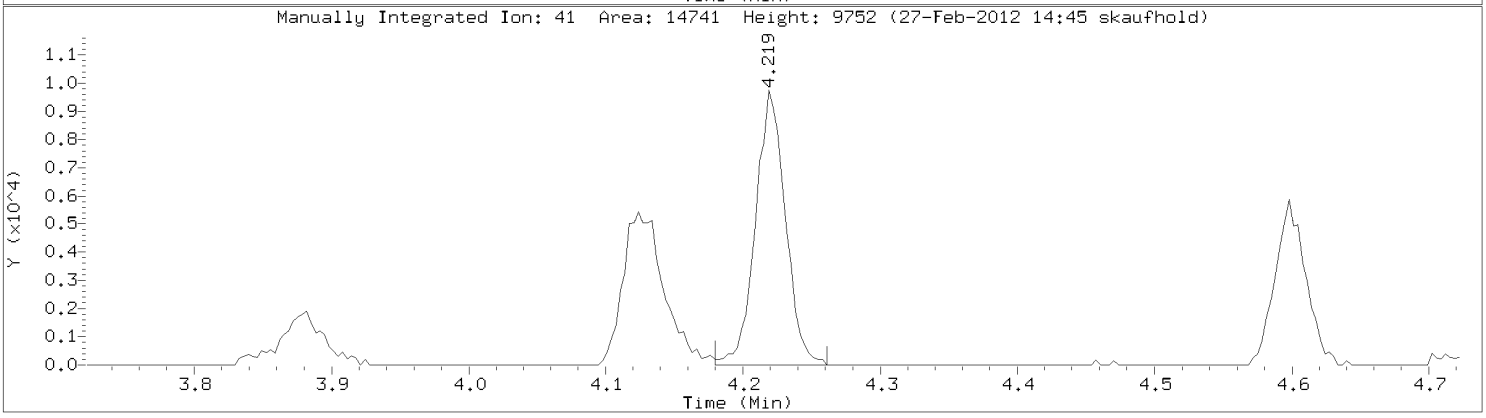
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Allyl Chloride
CAS Number: 107-05-1

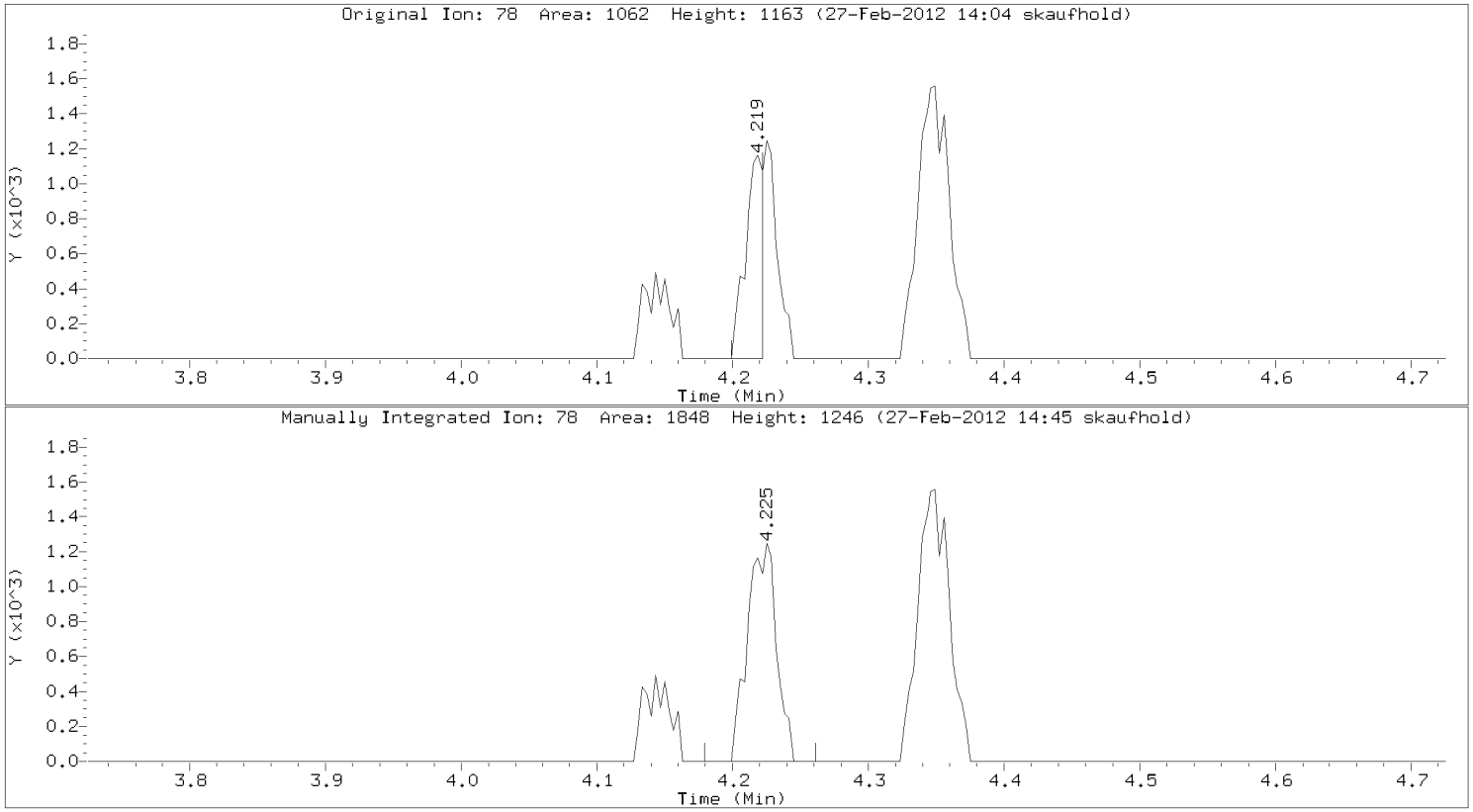






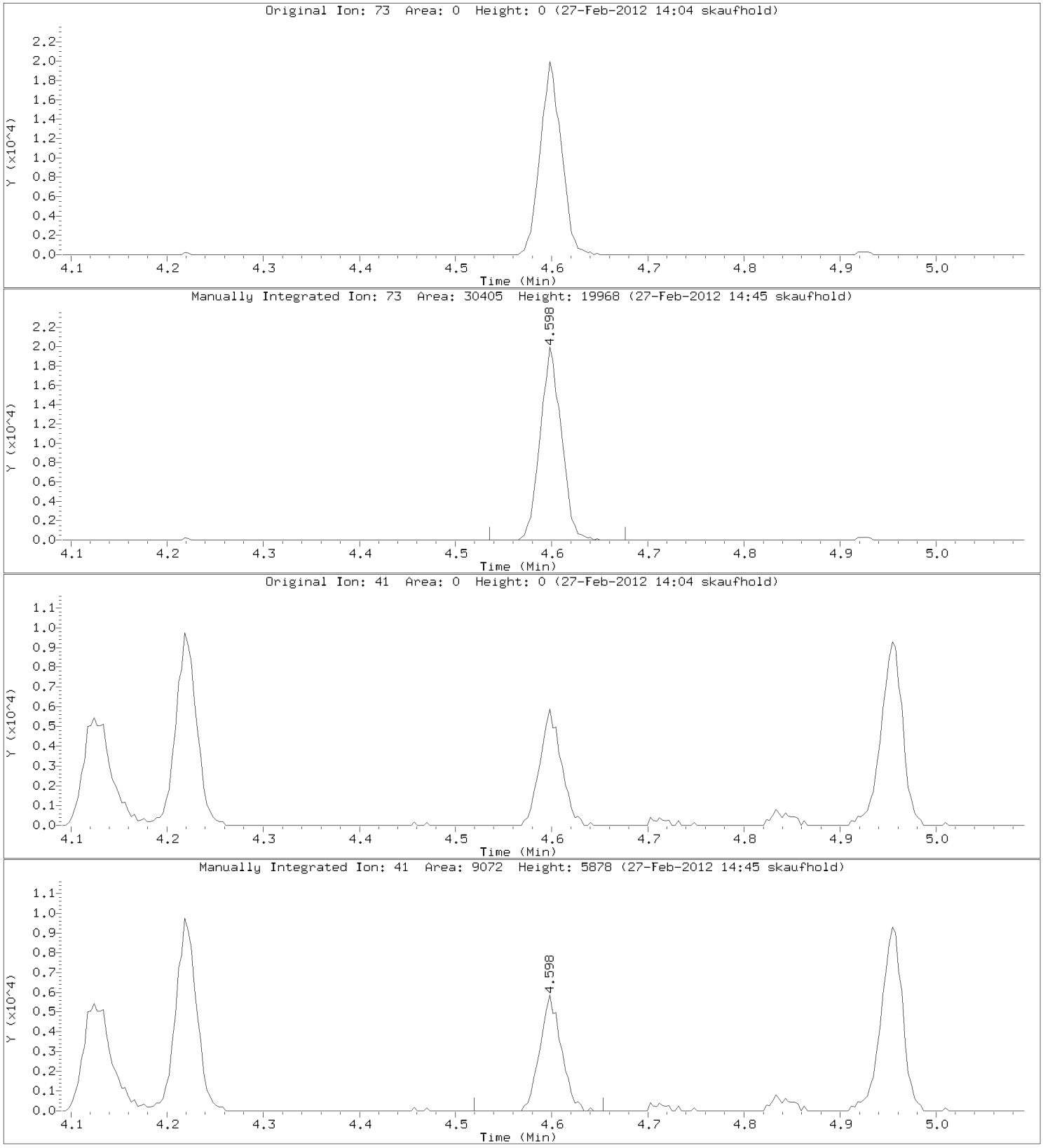


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Lab Sample ID: ICAL 3



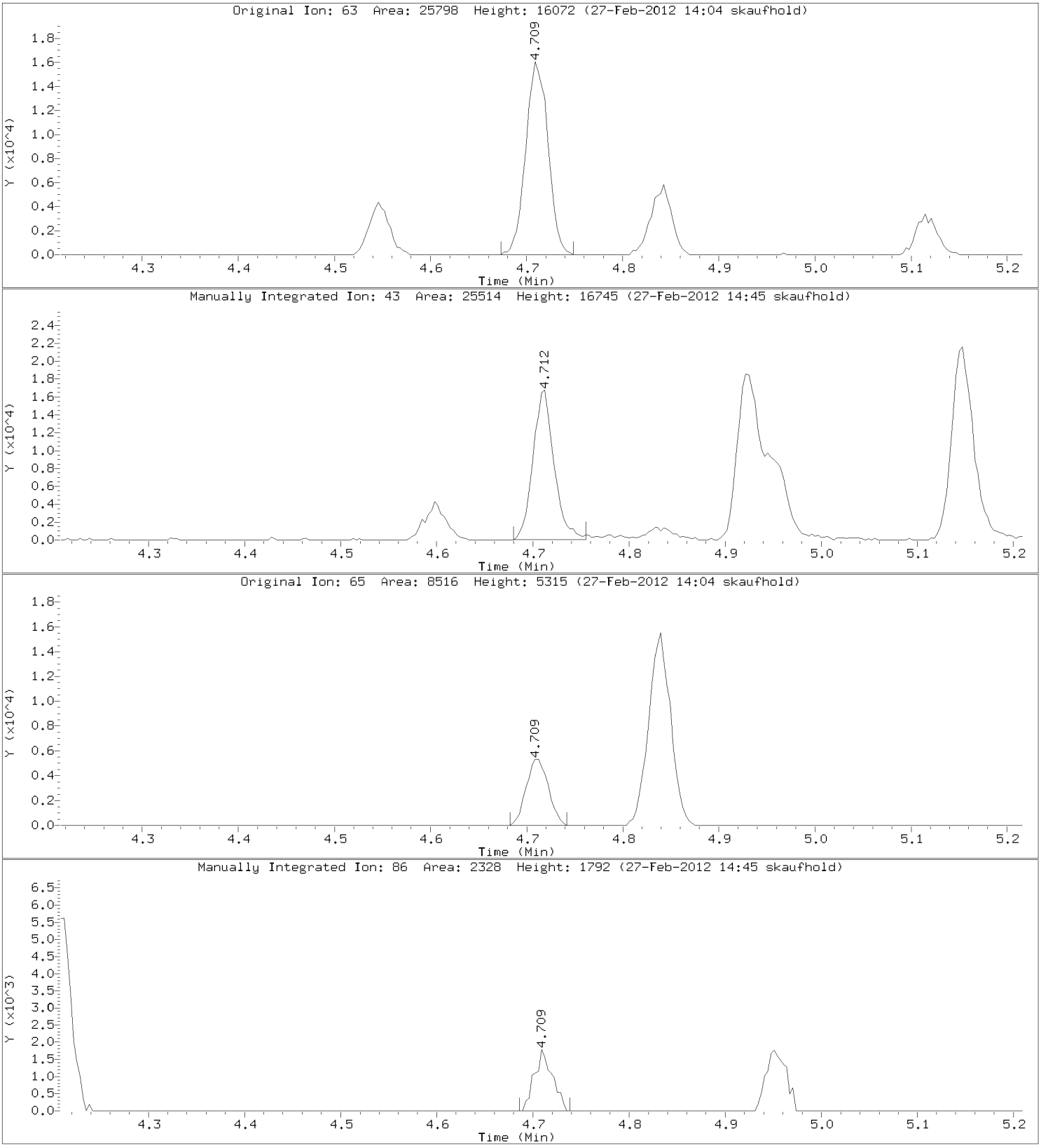
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



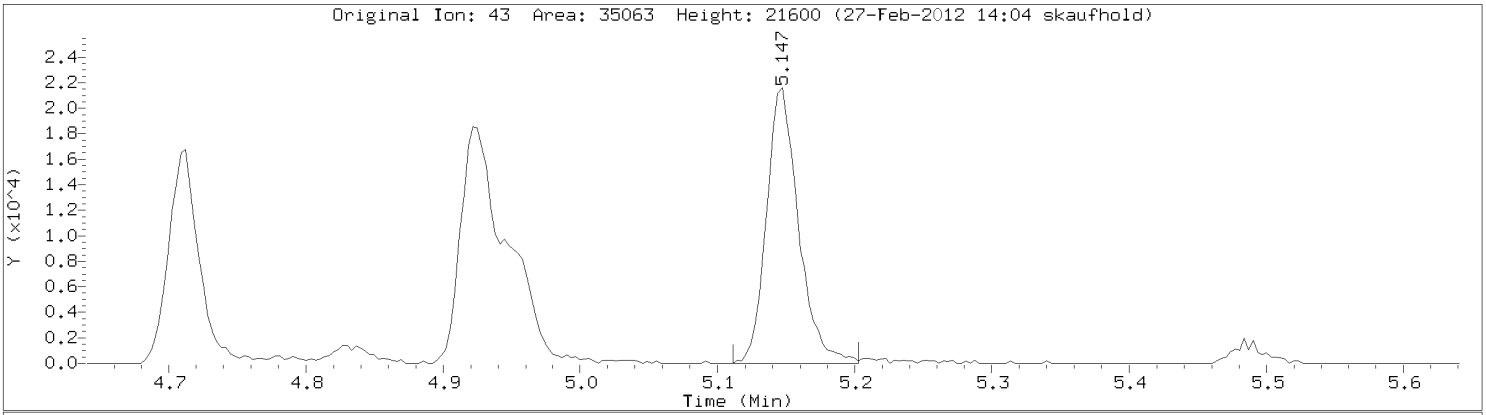
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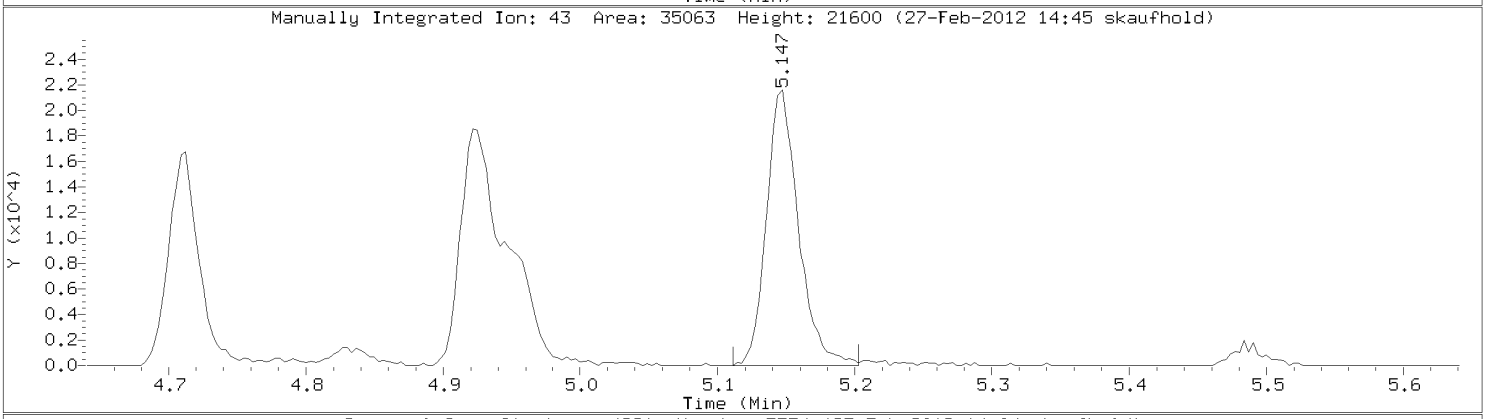
Compound: Vinyl Acetate
CAS Number: 108-05-4

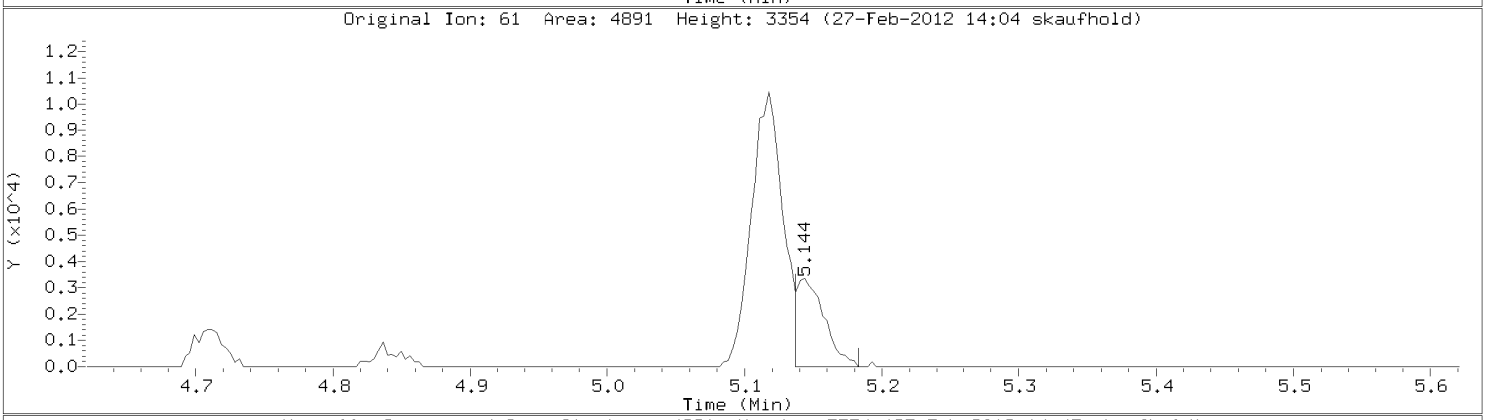


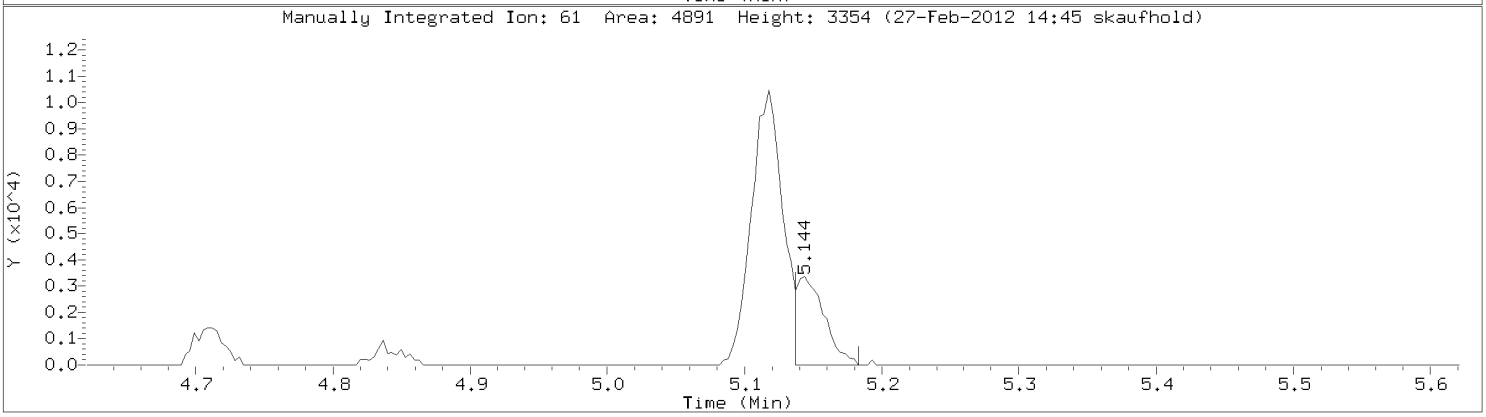
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Ethyl Acetate
CAS Number: 141-78-6

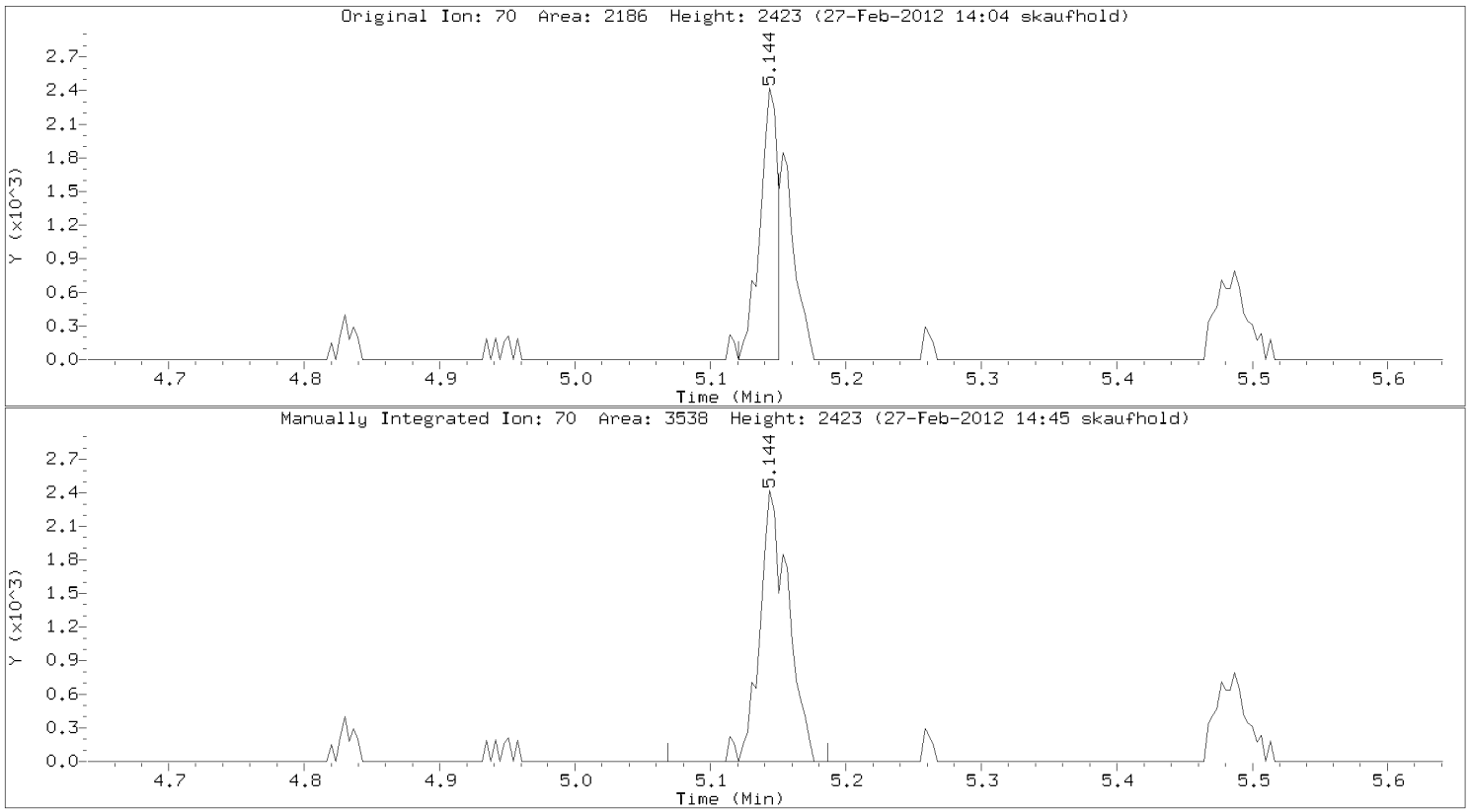






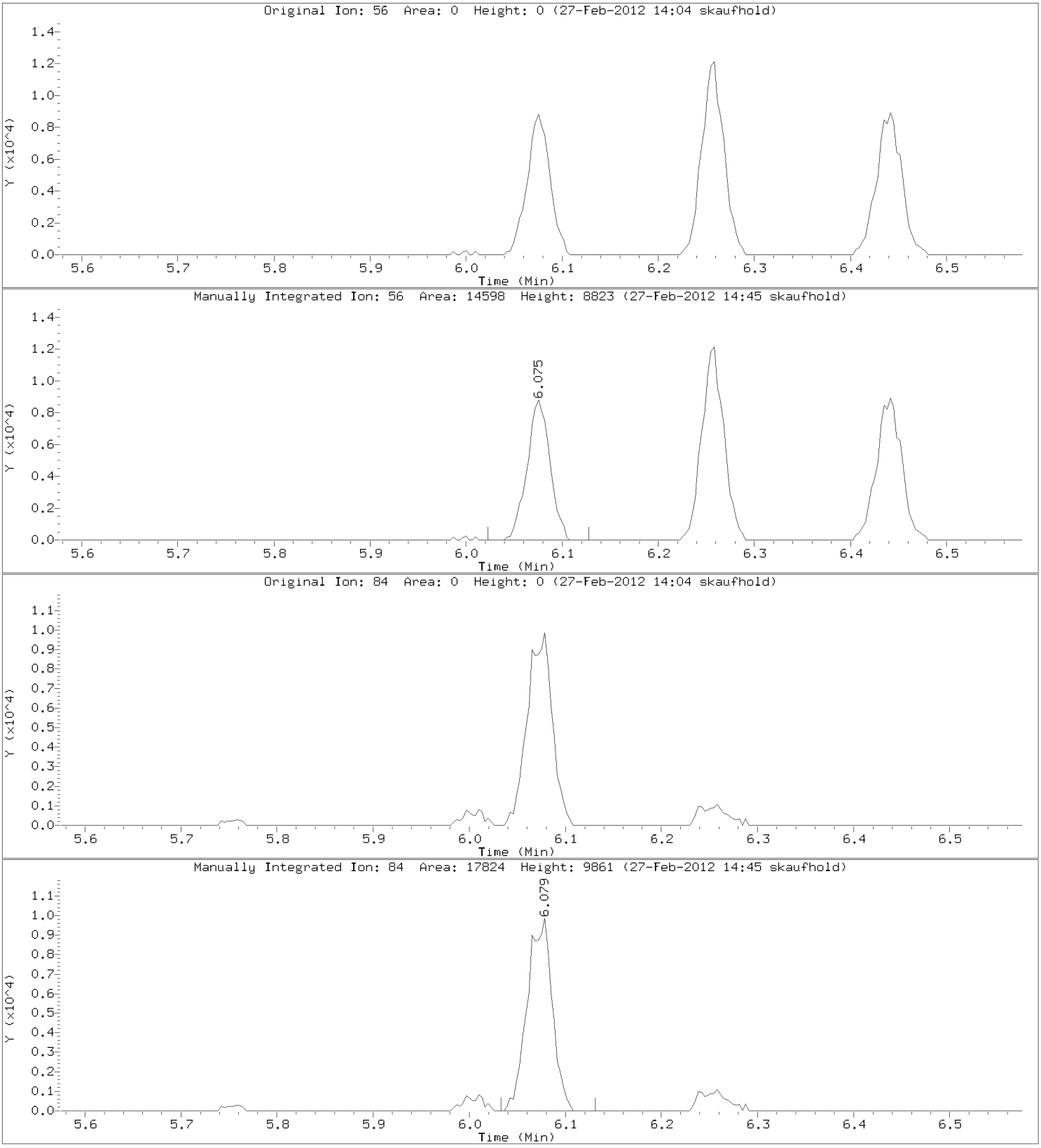


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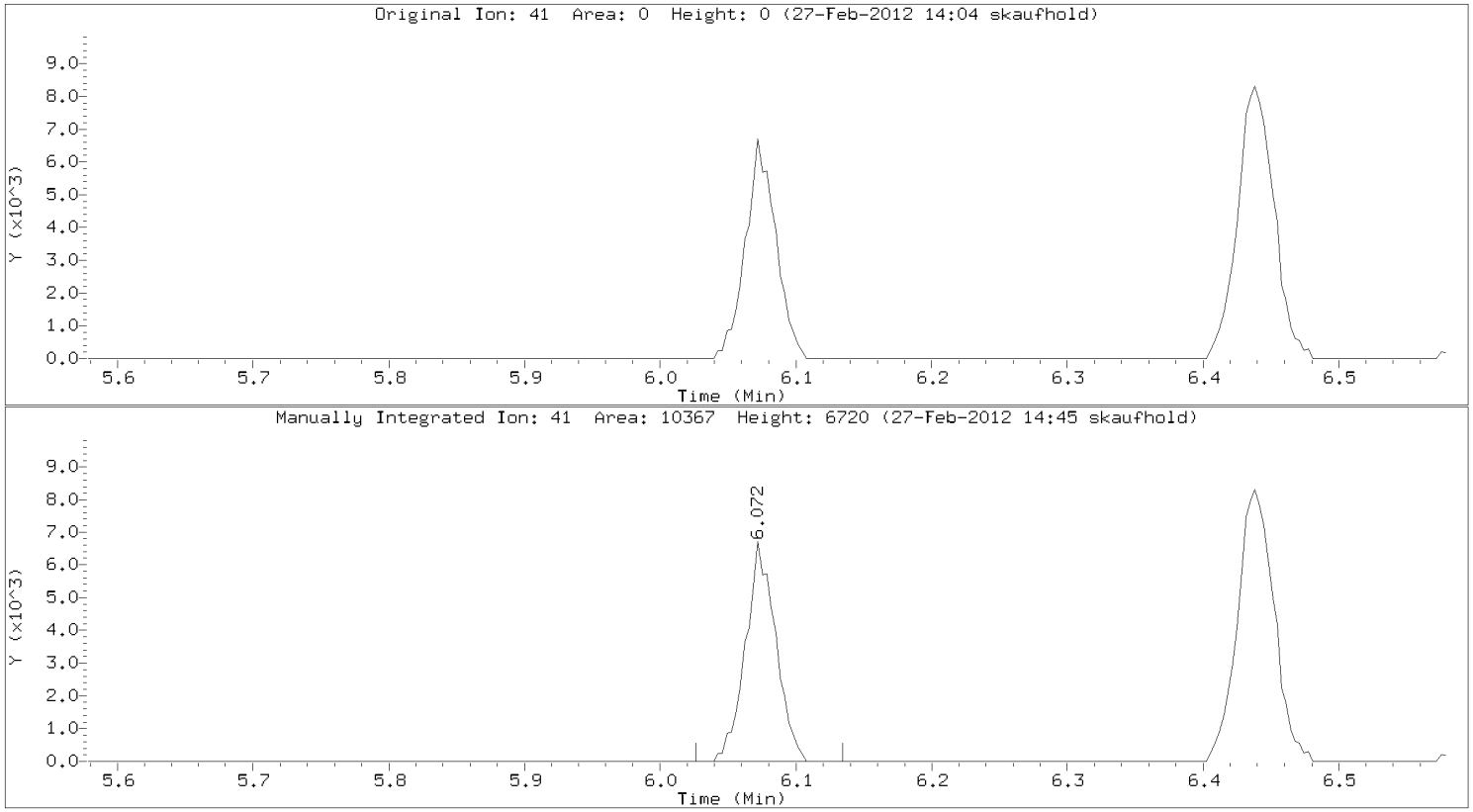


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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: Cyclohexane
CAS Number: 110-82-7

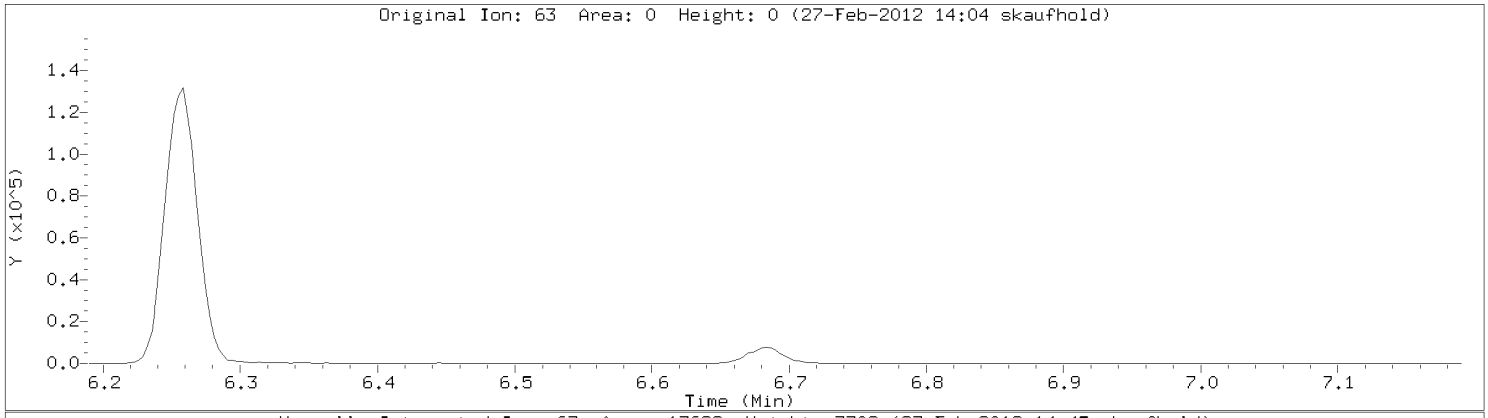


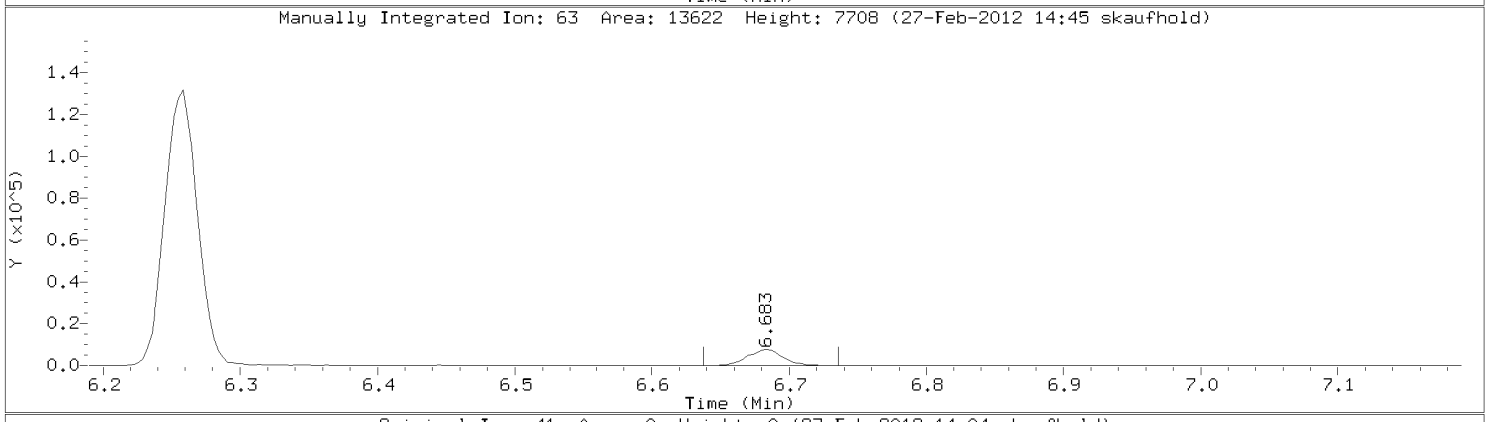
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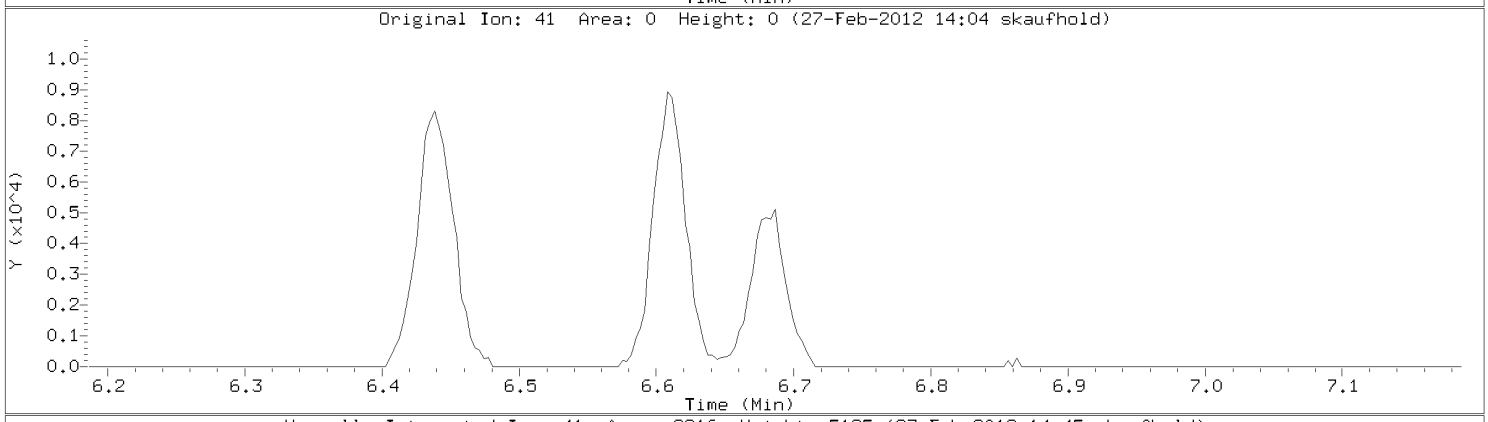


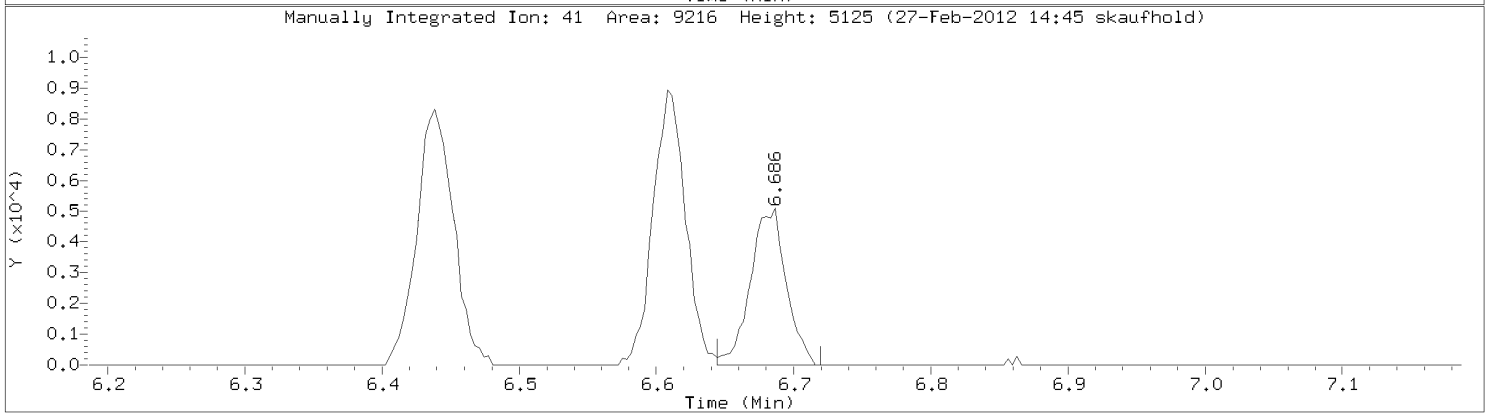
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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

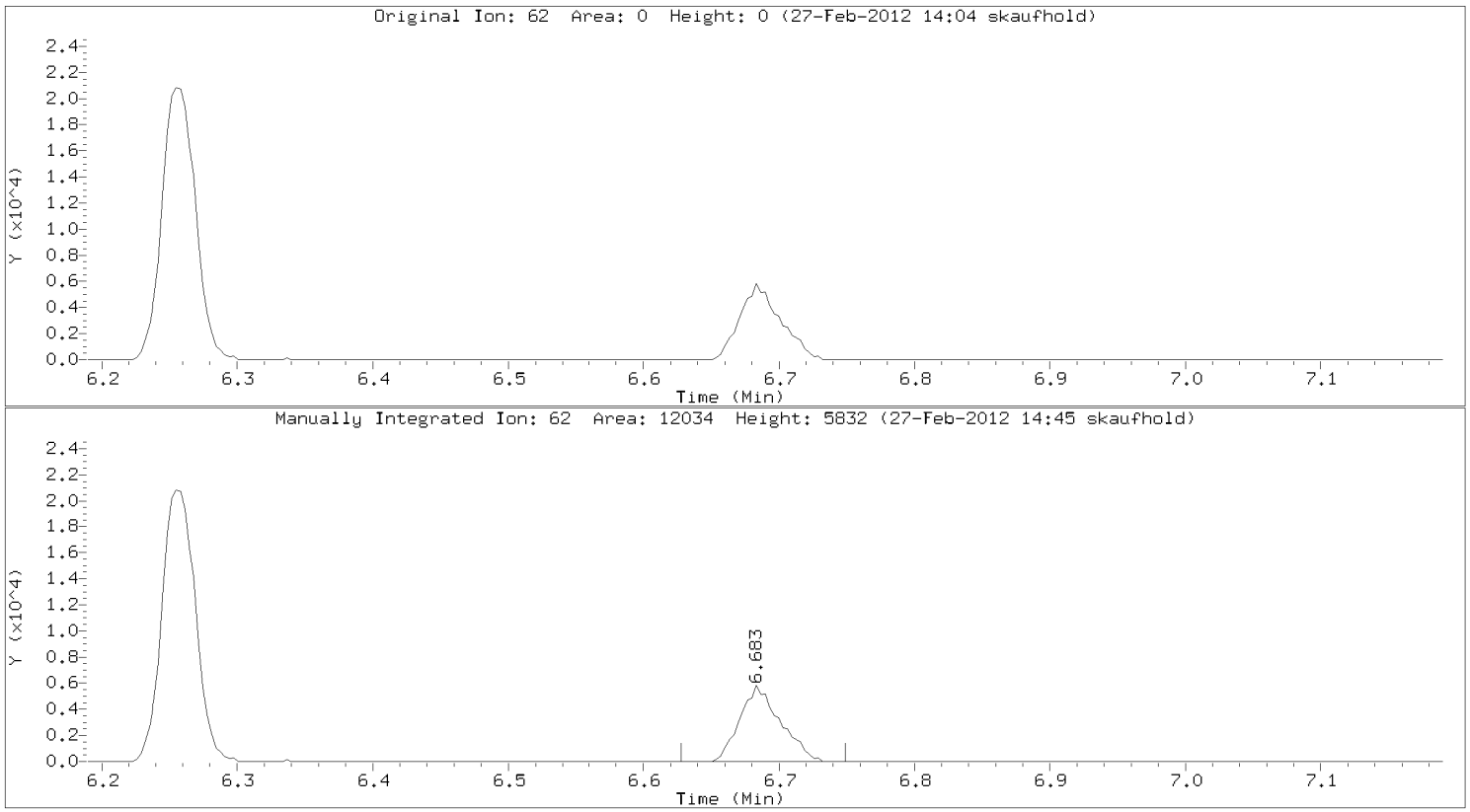






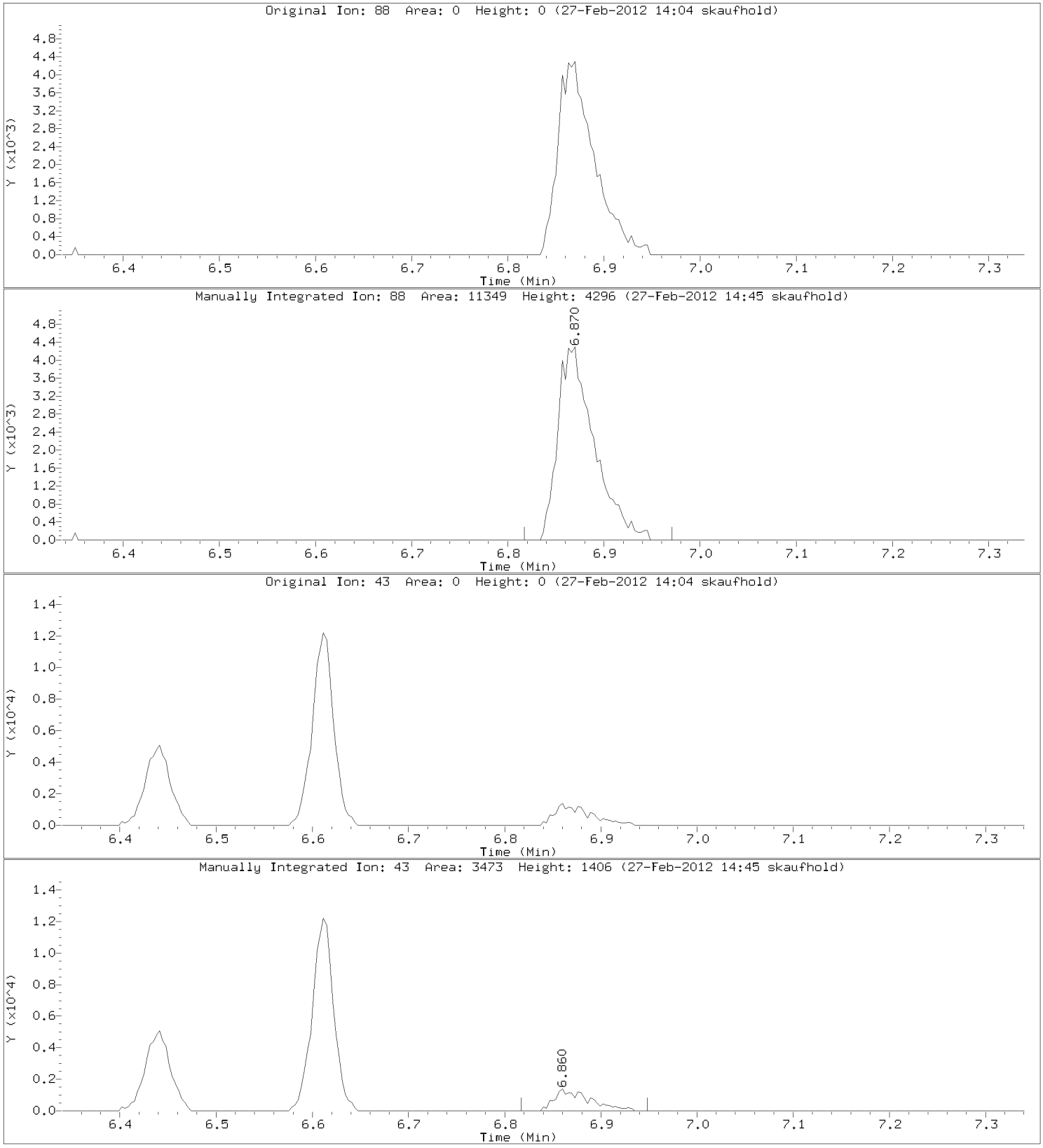


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Instrument: 10airD.i
Lab Sample ID: ICAL 3



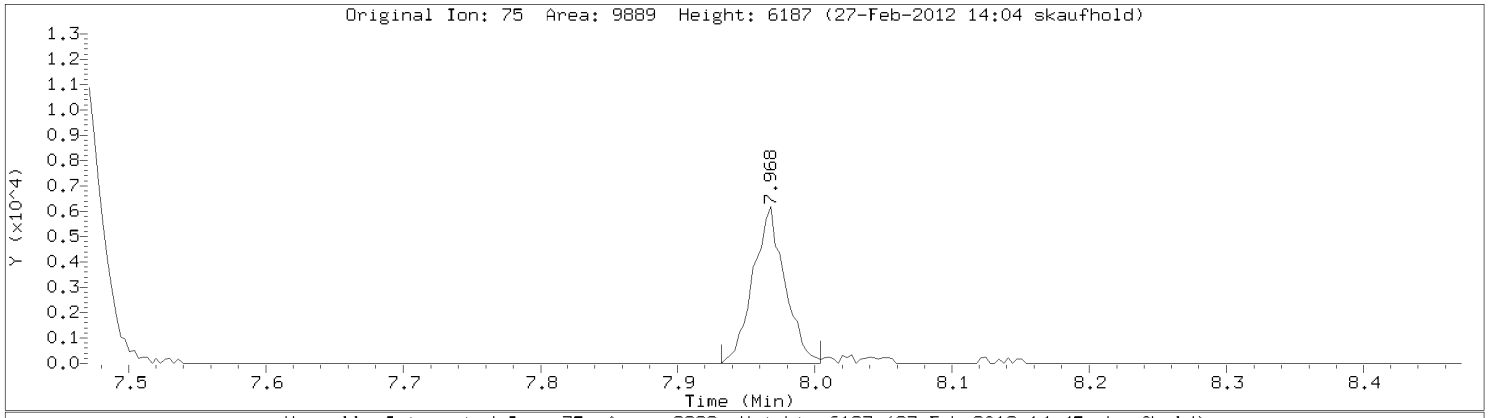
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Instrument: 10airD.i
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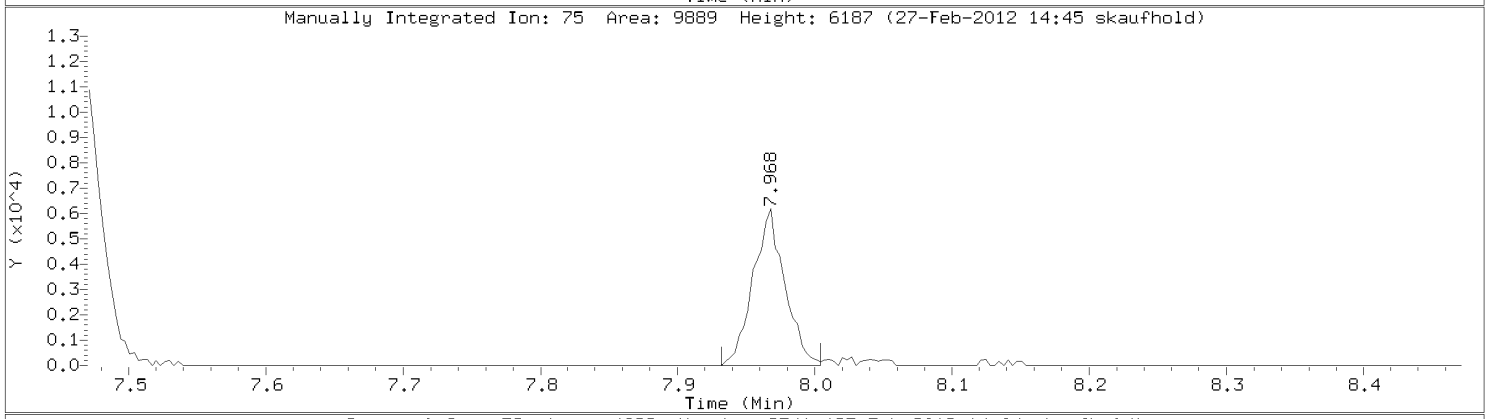
Compound: 1,4-Dioxane
CAS Number: 123-91-1

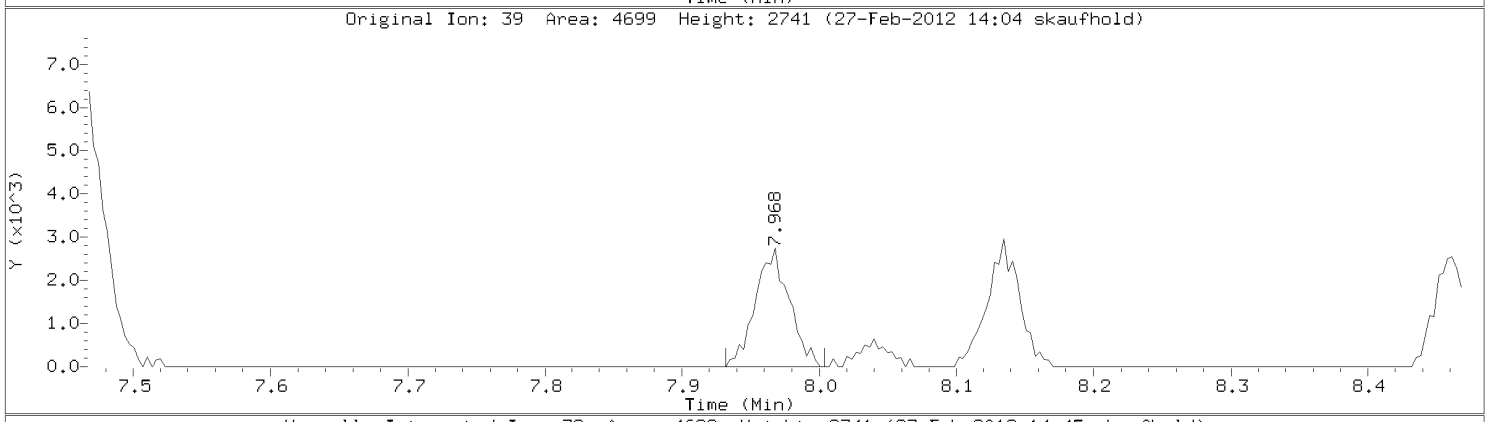


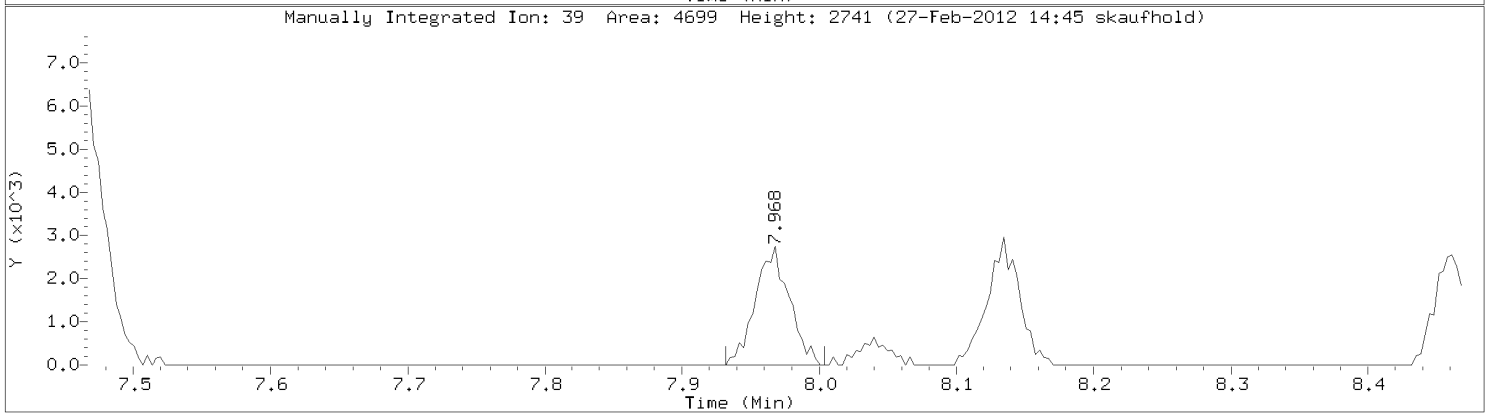
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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

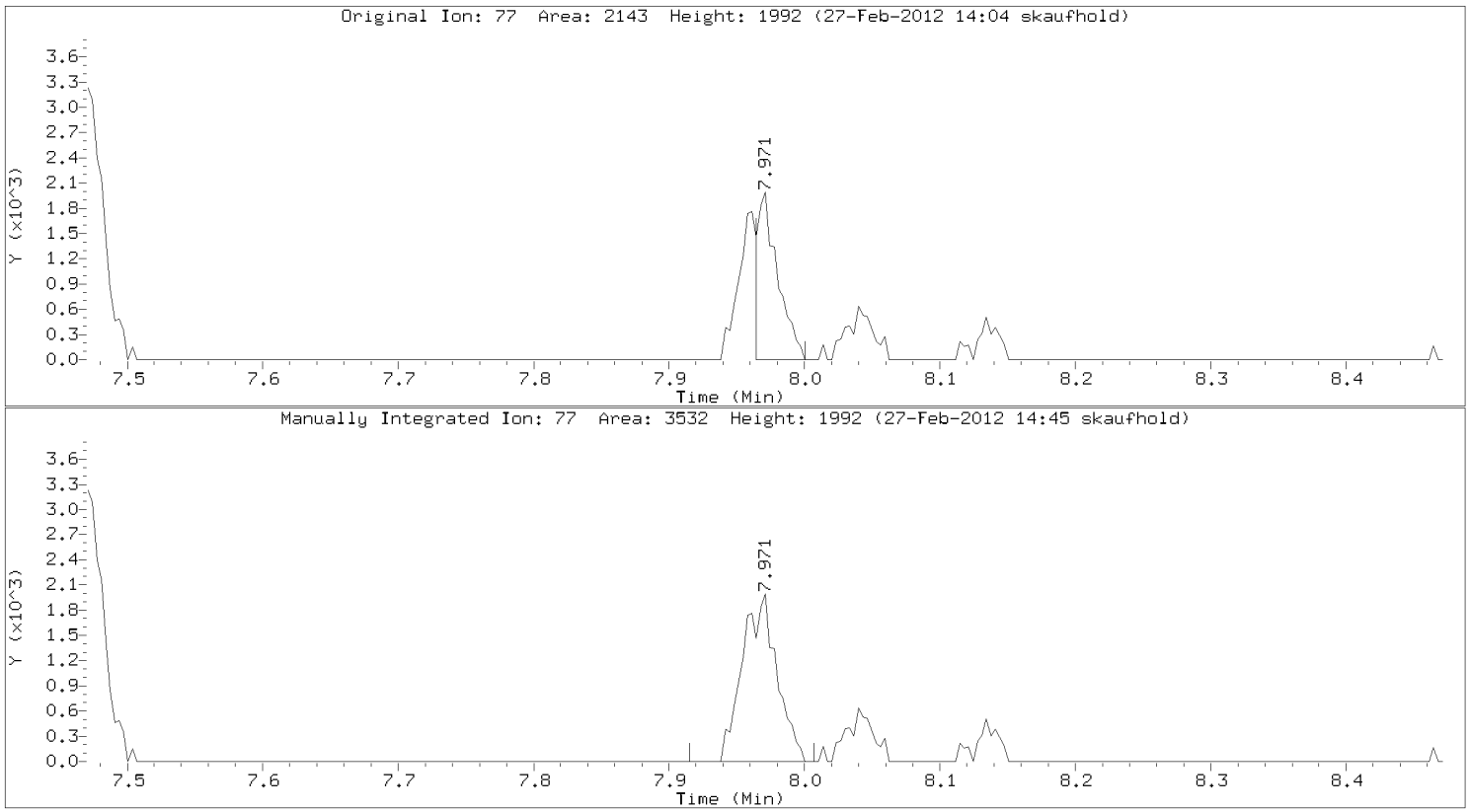






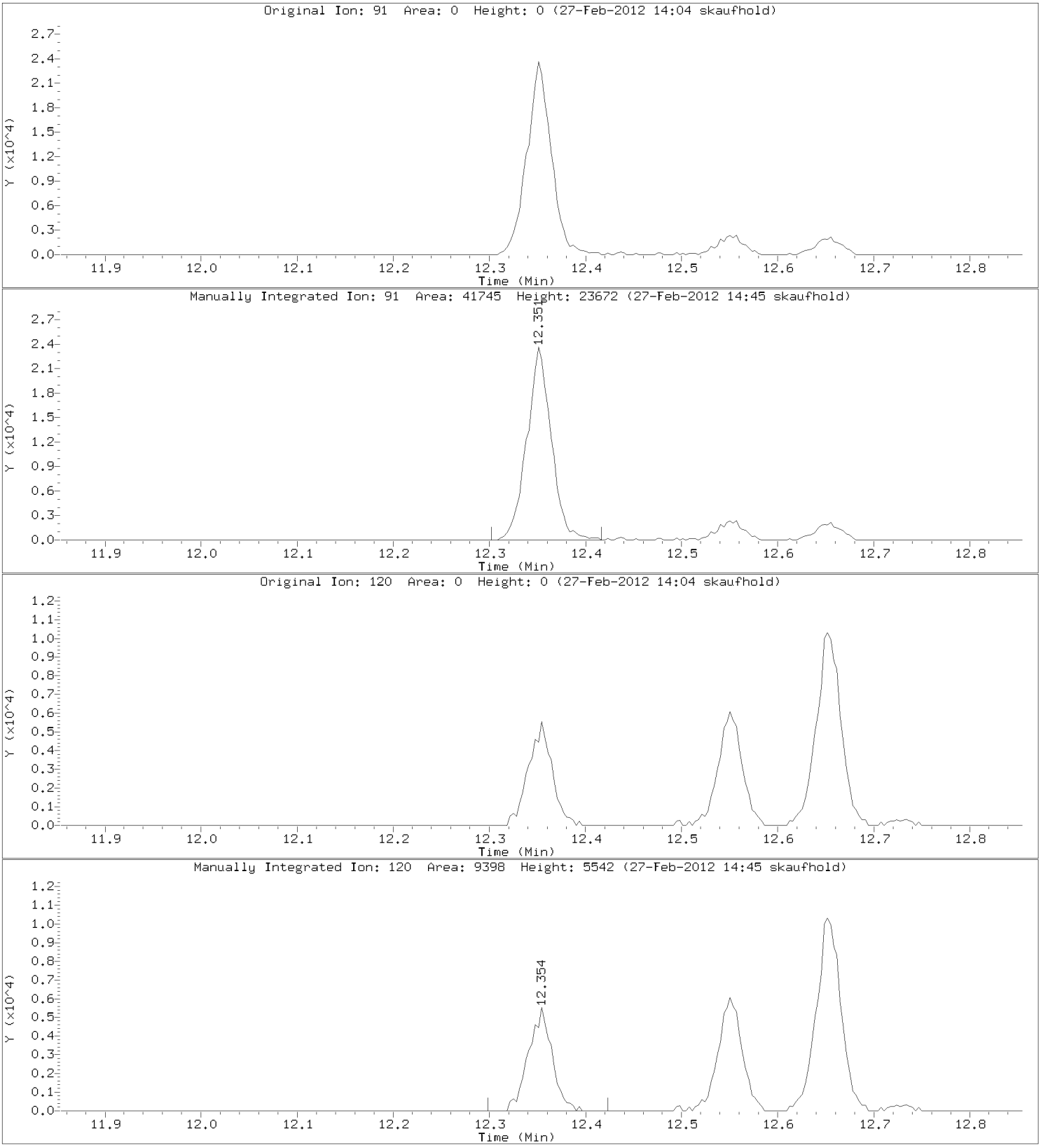


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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3



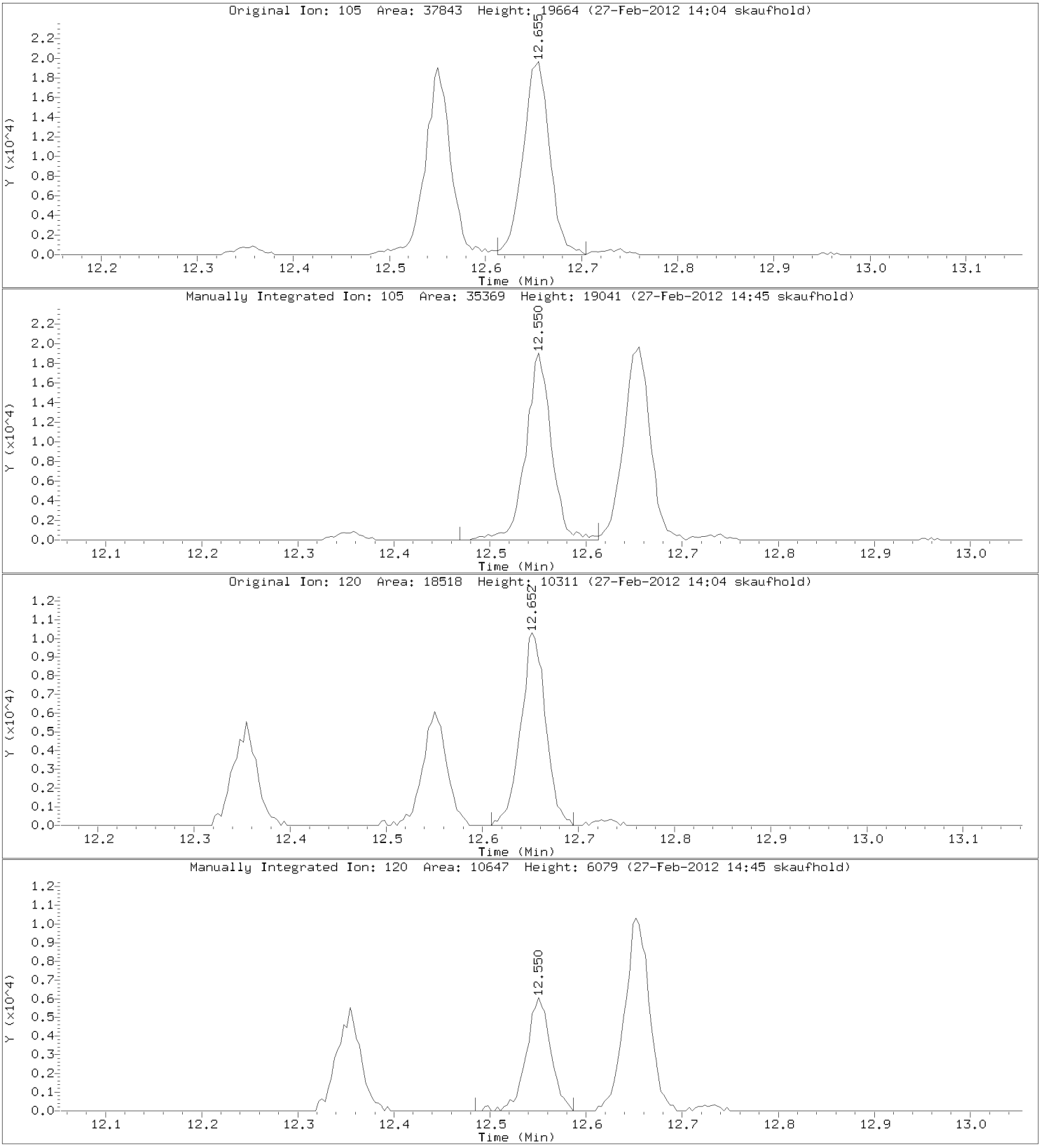
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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: N-Propylbenzene
CAS Number: 103-65-1

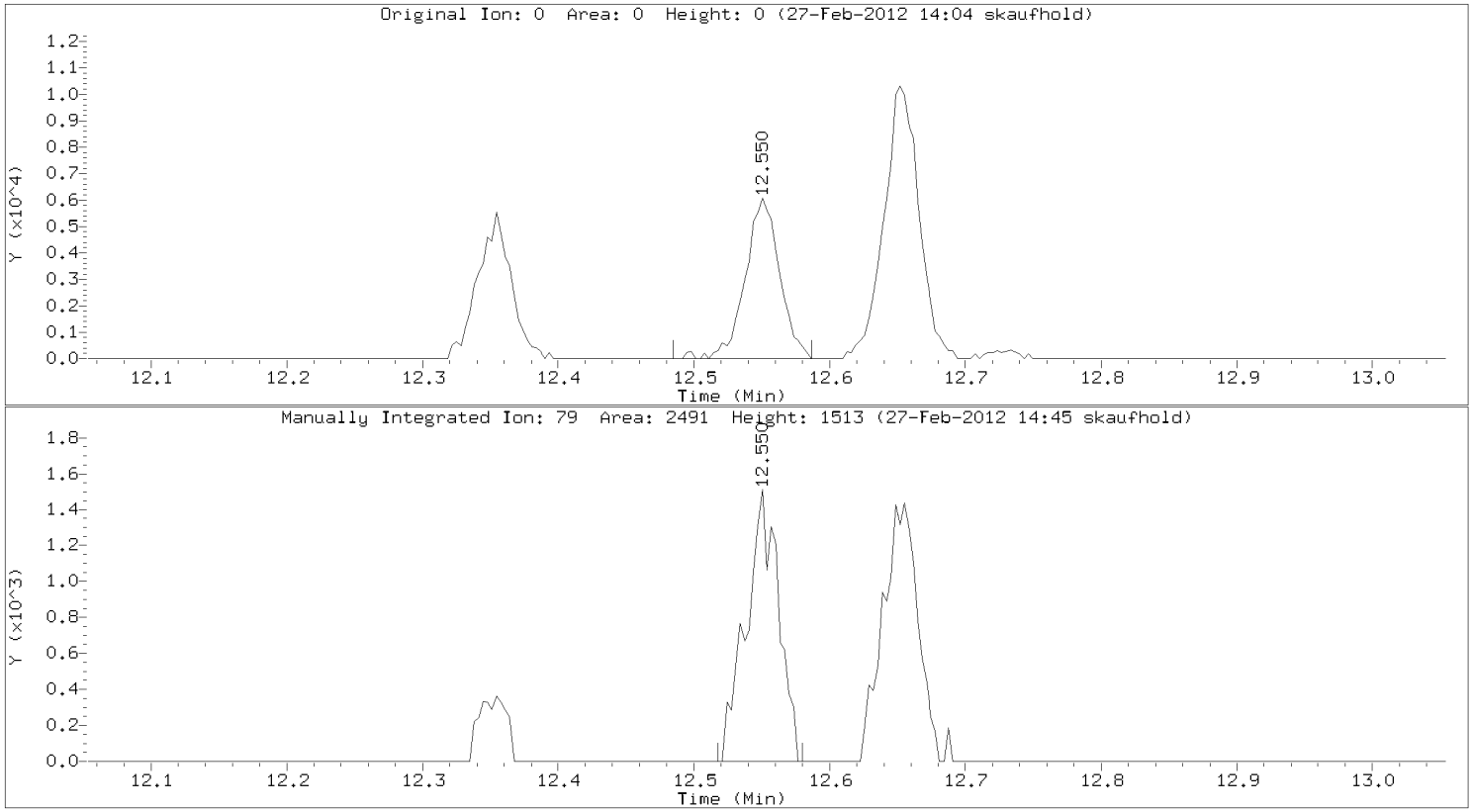


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05807.D
Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

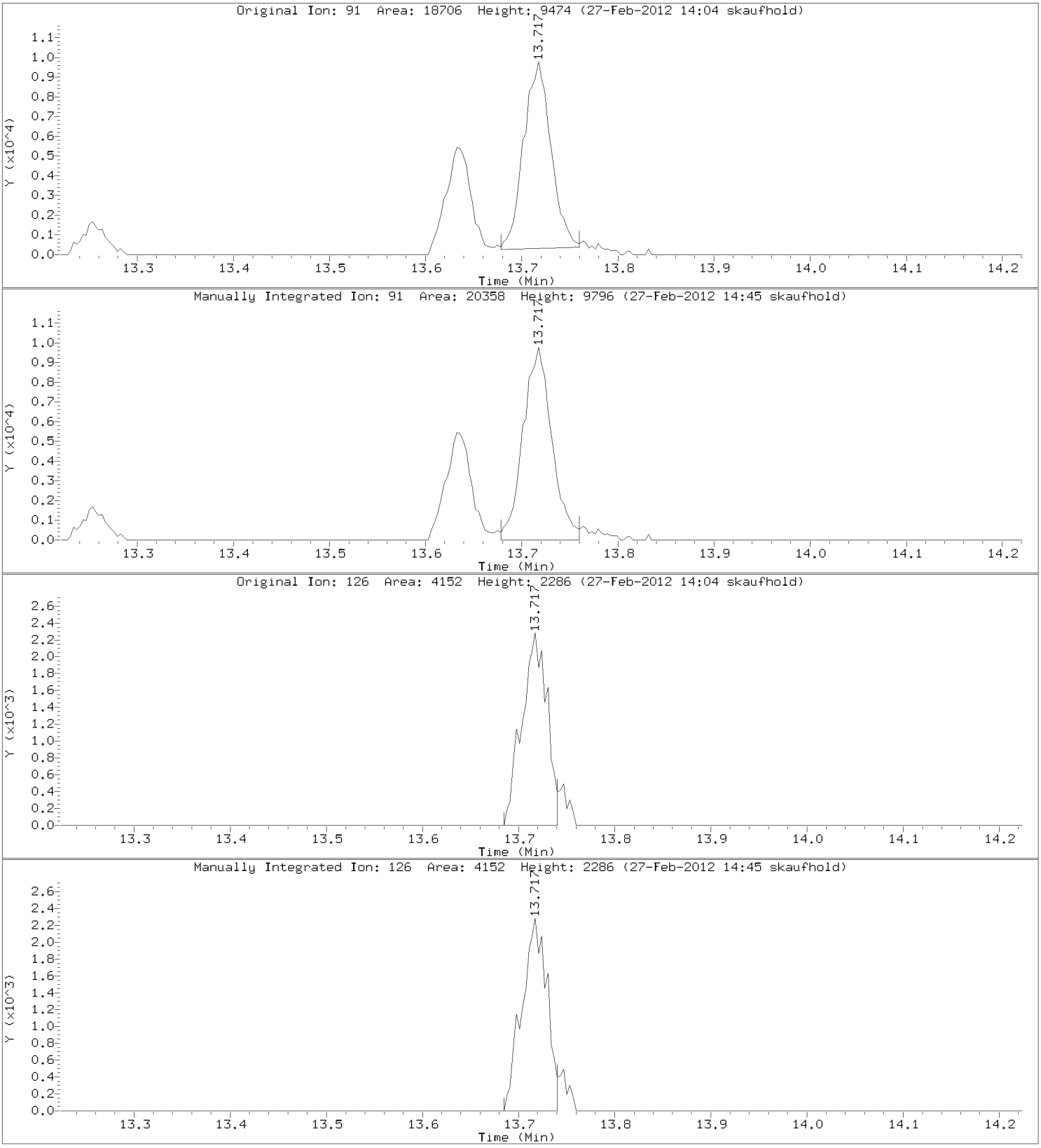


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Instrument: 10airD.i
Lab Sample ID: ICAL 3



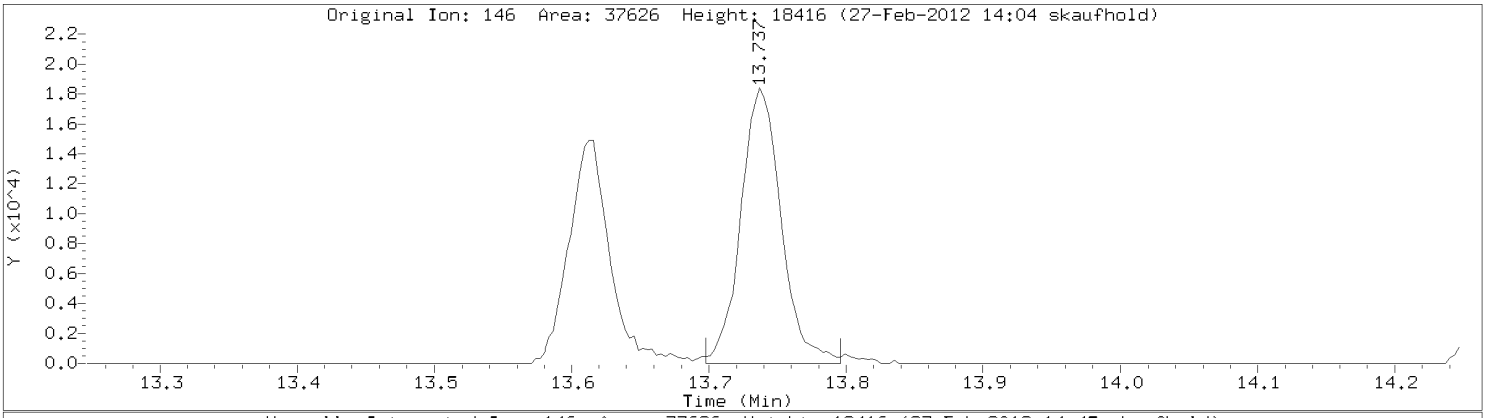
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Instrument: 10airD.i
Lab Sample ID: ICAL 3

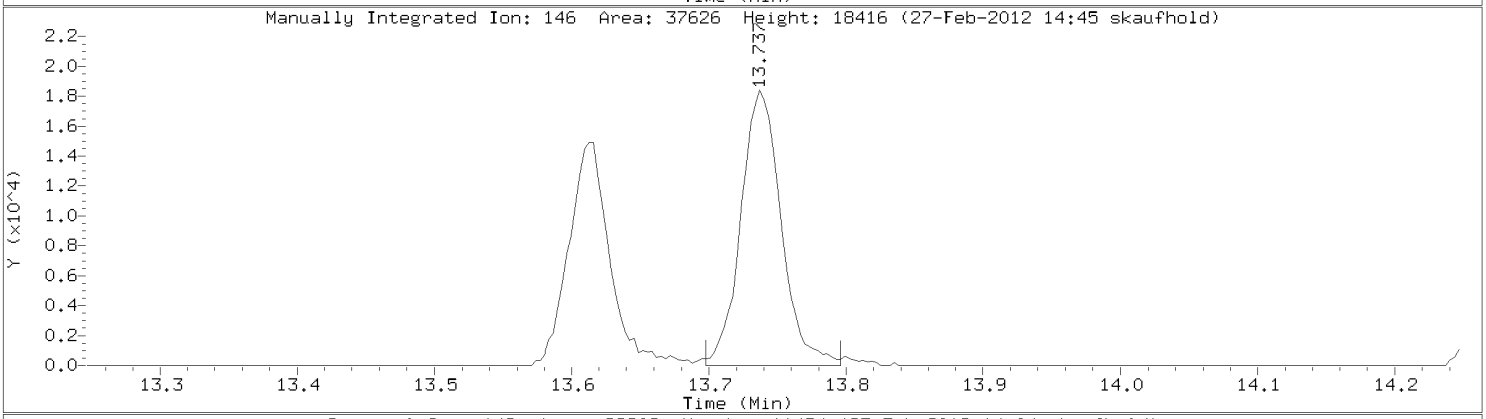
Compound: Benzyl Chloride
CAS Number: 100-44-7

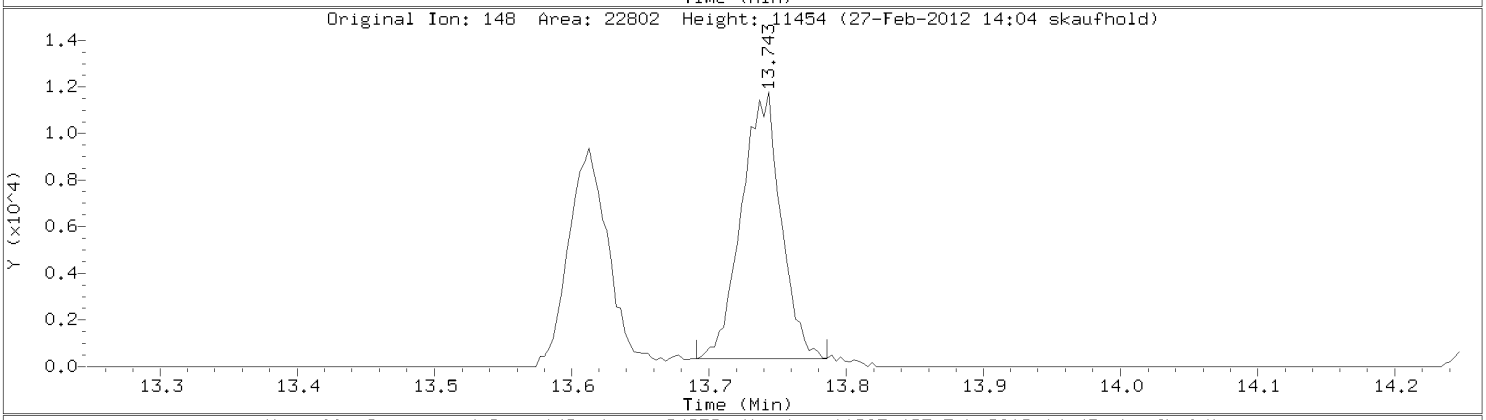


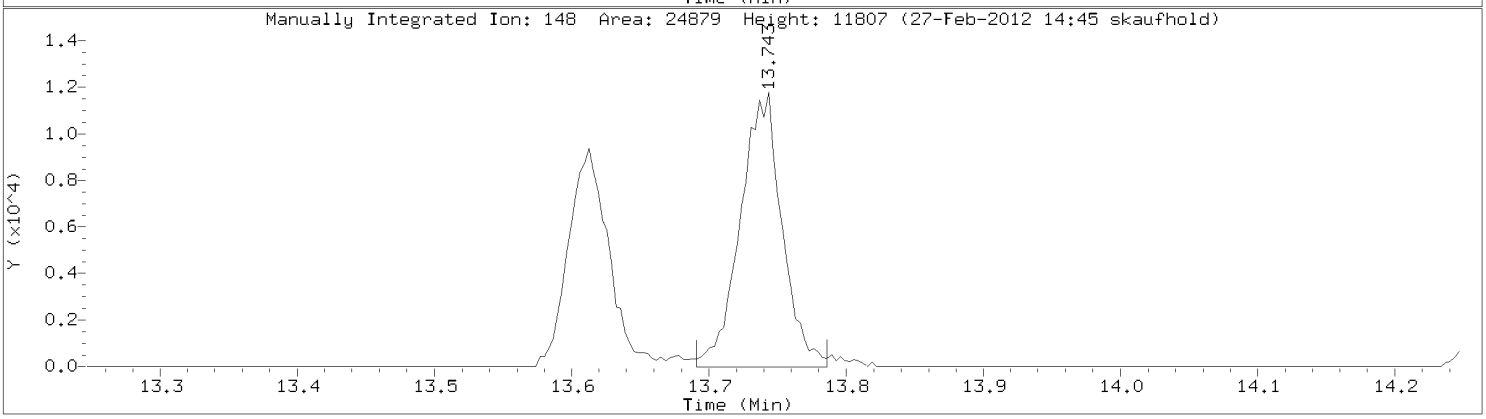
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Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

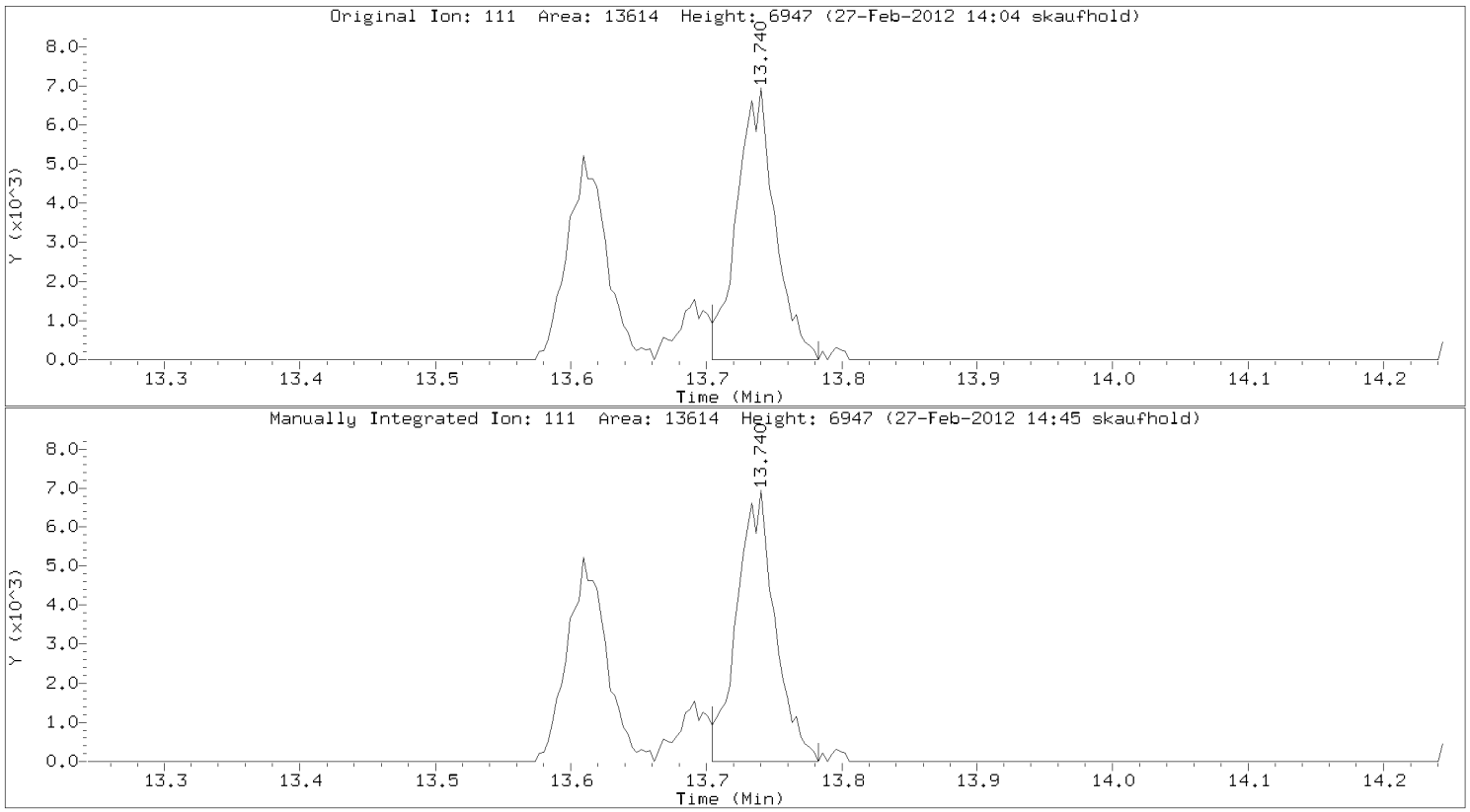








Data File: \\192.168.10.12\chem\10airD.i\022712.B/05807.D
Injection Date: 27-FEB-2012 13:17
Instrument: 10airD.i
Lab Sample ID: ICAL 3



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Report Date: 27-Feb-2012 14:45

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Lab Smp Id: ICAL 4
Inj Date : 27-FEB-2012 13:46
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 14:45 10airD.i Quant Type: ISTD
Cal Date : 27-FEB-2012 13:17 Cal File: 05807.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Propylene	41	3.058	3.058	(0.489)	16880	1.00000	0.964
2	Dichlorodifluoromethane	85	3.084	3.084	(0.493)	109517	1.00000	1.16
3	Dichlorotetrafluoroethane	85	3.185	3.185	(0.509)	99423	1.00000	1.19
4	Chloromethane	50	3.189	3.189	(0.510)	42795	1.00000	1.24
5	Vinyl chloride	62	3.277	3.277	(0.524)	33058	1.00000	1.22
6	1,3-Butadiene	54	3.326	3.326	(0.531)	21587	1.00000	1.11
7	Bromomethane	94	3.483	3.483	(0.557)	30189	1.00000	1.18
8	Chloroethane	64	3.542	3.542	(0.566)	14015	1.00000	1.27(M)
9	Ethanol	31	3.581	3.581	(0.572)	25621	1.00000	1.53
10	Vinyl Bromide	106	3.682	3.682	(0.588)	38641	1.00000	1.18
11	Acrolein	56	3.790	3.790	(0.606)	11212	1.00000	1.26(M)
12	Trichlorofluoromethane	101	3.796	3.796	(0.607)	118351	1.00000	1.19
13	Acetone	43	3.836	3.836	(0.613)	87490	1.00000	1.12
14	Isopropyl Alcohol	45	3.865	3.865	(0.618)	78601	1.00000	1.56
15	1,1-Dichloroethene	61	4.091	4.091	(0.654)	65386	1.00000	1.24
16	Acrylonitrile	53	4.097	4.097	(0.655)	25617	1.00000	1.28
17	Tert Butyl Alcohol	59	4.114	4.114	(0.657)	89722	1.00000	1.57(M)
18	Freon 113	101	4.146	4.146	(0.663)	84321	1.00000	1.18
19	Methylene chloride	49	4.205	4.205	(0.672)	45639	1.00000	1.18
20	Allyl Chloride	76	4.221	4.221	(0.675)	14624	1.00000	1.09(M)
21	Carbon Disulfide	76	4.349	4.349	(0.695)	70184	1.00000	0.769
22	trans-1,2-dichloroethene	96	4.545	4.545	(0.726)	40633	1.00000	1.19
23	Methyl Tert Butyl Ether	73	4.594	4.594	(0.734)	88427	1.00000	1.23(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Report Date: 27-Feb-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Vinyl Acetate	43	4.708	4.708	(0.752)	75332	1.00000	1.09(M)
	25 1,1-Dichloroethane	63	4.712	4.712	(0.753)	68621	1.00000	1.21
$	26 Hexane-d14(S)	66	4.833	4.833	(0.772)	324161	10.0000	9.76
	27 Methyl Ethyl Ketone	72	4.914	4.914	(0.785)	22336	1.00000	1.45(Q)
	28 n-Hexane	57	4.954	4.954	(0.792)	47209	1.00000	1.12(Q)
	29 cis-1,2-Dichloroethene	96	5.117	5.117	(0.818)	36929	1.00000	1.20(Q)
	30 Ethyl Acetate	43	5.140	5.140	(0.821)	105592	1.00000	1.44(Q)
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.261	5.261	(0.841)	90320	1.00000	1.18
	33 Tetrahydrofuran	42	5.473	5.473	(0.875)	35501	1.00000	1.15
	34 1,1,1-Trichloroethane	97	5.754	5.754	(0.920)	90295	1.00000	1.12
	35 1,2-Dichloroethane	62	5.771	5.771	(0.922)	63077	1.00000	1.14
	36 Benzene	78	6.045	6.045	(0.966)	104090	1.00000	1.21
	37 Carbon tetrachloride	117	6.068	6.068	(0.970)	103553	1.00000	1.10
	38 Cyclohexane	56	6.075	6.075	(0.971)	45975	1.00000	1.11
*	39 1,4-Difluorobenzene	114	6.258	6.258	(1.000)	1402614	10.0000	
	40 2,2,4-Trimethylpentane	57	6.438	6.438	(1.029)	143957	1.00000	1.10
	41 Heptane	43	6.611	6.611	(1.056)	57549	1.00000	1.09
	42 1,2-Dichloropropane	63	6.683	6.683	(1.068)	37820	1.00000	1.23(M)
	43 Trichloroethene	130	6.709	6.709	(1.072)	59973	1.00000	1.03
	44 1,4-Dioxane	88	6.846	6.846	(1.094)	35476	1.00000	1.72(M)
	45 Bromodichloromethane	83	6.830	6.830	(1.091)	88290	1.00000	1.08
	46 Methyl Isobutyl Ketone	43	7.415	7.415	(1.185)	126646	1.00000	1.73
	47 cis-1,3-Dichloropropene	75	7.467	7.467	(1.193)	56460	1.00000	1.03
	48 trans-1,3-Dichloropropene	75	7.967	7.967	(1.273)	36001	1.00000	0.882
$	49 Toluene-d8 (S)	98	8.042	8.042	(1.285)	1247735	10.0000	10.7
	50 Toluene	91	8.134	8.134	(1.300)	121704	1.00000	1.04
	51 1,1,2-Trichloroethane	97	8.144	8.144	(1.301)	48625	1.00000	1.20
	52 Methyl Butyl Ketone	43	8.451	8.451	(0.853)	142936	1.00000	1.74
	53 Dibromochloromethane	129	8.762	8.762	(0.885)	81916	1.00000	0.862
	54 1,2-Dibromoethane	107	9.036	9.036	(0.912)	67699	1.00000	0.887
	55 Tetrachloroethene	166	9.124	9.124	(0.921)	66694	1.00000	0.868
*	56 Chlorobenzene - d5	117	9.906	9.906	(1.000)	911024	10.0000	
	57 Chlorobenzene	112	9.955	9.955	(1.005)	101375	1.00000	0.990
	58 Ethyl Benzene	91	10.255	10.255	(1.035)	130615	1.00000	0.884
	59 m&p-Xylene	91	10.429	10.429	(1.053)	230226	2.00000	1.85
	60 2-Heptanone	43	10.700	10.700	(1.710)	228446	1.00000	2.40(A)
	61 Bromoform	173	10.880	10.880	(1.098)	82722	1.00000	0.856
	62 Styrene	104	10.929	10.929	(1.103)	99363	1.00000	0.903
	63 o-Xylene	91	11.004	11.004	(1.111)	109671	1.00000	0.948
	64 1,1,2,2-Tetrachloroethane	83	11.321	11.321	(1.143)	114227	1.00000	1.07
	65 Isopropylbenzene	105	11.684	11.684	(1.179)	178282	1.00000	0.934
	66 N-Propylbenzene	91	12.351	12.351	(1.247)	171018	1.00000	0.922(M)
	67 4-Ethyltoluene	105	12.547	12.547	(1.267)	139868	1.00000	0.940(M)
	68 1,3,5-Trimethylbenzene	105	12.651	12.651	(1.277)	131458	1.00000	0.920
	69 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.338)	115735	1.00000	0.909
	70 1,3-Dichlorobenzene	146	13.612	13.612	(1.374)	97432	1.00000	0.856
	71 Sec- Butylbenzene	105	13.635	13.635	(1.376)	216505	1.00000	0.998
$	72 1,4-dichlorobenzene-d4 (S)	150	13.691	13.691	(1.382)	489321	10.0000	12.0
	73 Benzyl Chloride	91	13.717	13.717	(1.385)	68859	1.00000	0.744(M)
	74 1,4-Dichlorobenzene	146	13.736	13.736	(1.387)	110092	1.00000	0.902
	75 1,2-Dichlorobenzene	146	14.276	14.276	(1.441)	92582	1.00000	0.887
	76 N-Butylbenzene	91	14.547	14.547	(1.469)	158474	1.00000	1.05
	77 1,2,4-Trichlorobenzene	180	16.894	16.894	(1.705)	80029	1.00000	1.35

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Report Date: 27-Feb-2012 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78 Naphthalene	128	17.077	17.077	(1.724)	203141	1.00000	1.67
79 Hexachlorobutadiene	225	17.446	17.446	(1.761)	50453	1.00000	1.23

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Report Date: 27-Feb-2012 14:45

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05808.D
Lab Smp Id: ICAL 4
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

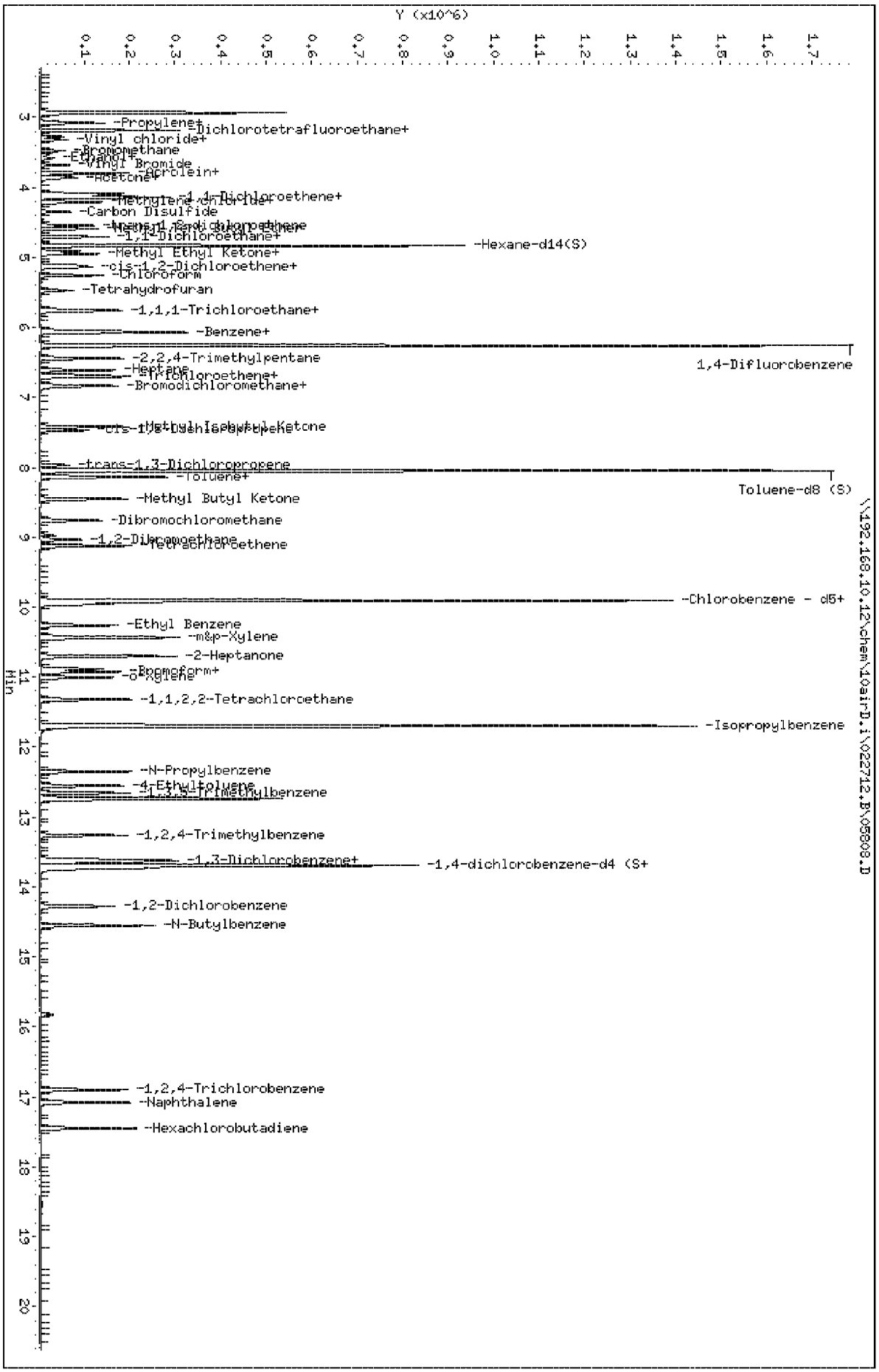
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1402614	7.23
56 Chlorobenzene - d	717767	430660	1004874	911024	26.92

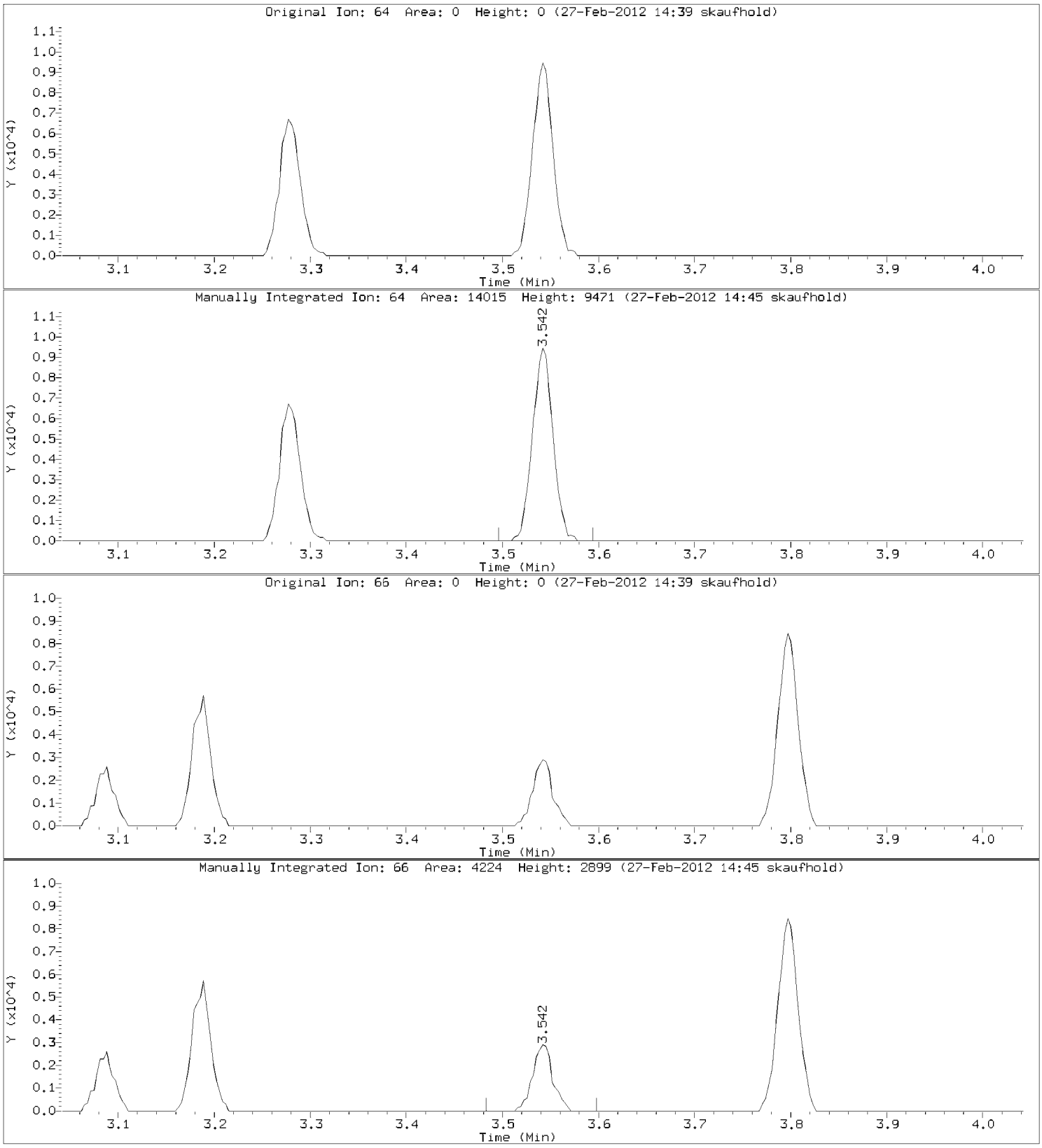
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	-0.05
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: \\192.168.10.12\chem\10airD.i\022712.B\05808.D
Date : 27-FEB-2012 13:46
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32
\\192.168.10.12\chem\10airD.i\022712.B\05808.D
Y (x10^6)
Min
-Propylene+
-Dichlorotetrafluoroethane+
-Vinyl chloride+
-Bromomethane
-Ethanol+
-Vinyl Bromide
-Acrolein+
-Acetone+
-Methylene Chloride
-1,1-Dichloroethene+
-Carbon Disulfide
-trans-1,2-Dichloroethene
-1,1-Dichloroethane+
-Hexane-d14(S)
-Methyl Ethyl Ketone+
-cis-1,2-Dichloroethene+
-Chloroform
-Tetrahydrofuran
-1,1,1-Trichloroethane+
-Benzene+
-2,2,4-Trimethylpentane
1,4-Difluorobenzene
-Heptane
-Trichloroethene+
-Bromodichloromethane+
-cis-1,3-Dichloropropene
-Methyl Isobutyl Ketone
-trans-1,3-Dichloropropene
-Toluene+
Toluene-d8 (S)
-Methyl Butyl Ketone
-Dibromochloromethane
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
-m&p-Xylene
-2-Heptanone
-Bromoform+
-o-Xylene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-N-Propylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene+
-1,4-dichlorobenzene-d4 (S+
-1,2-Dichlorobenzene
-N-Butylbenzene
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene

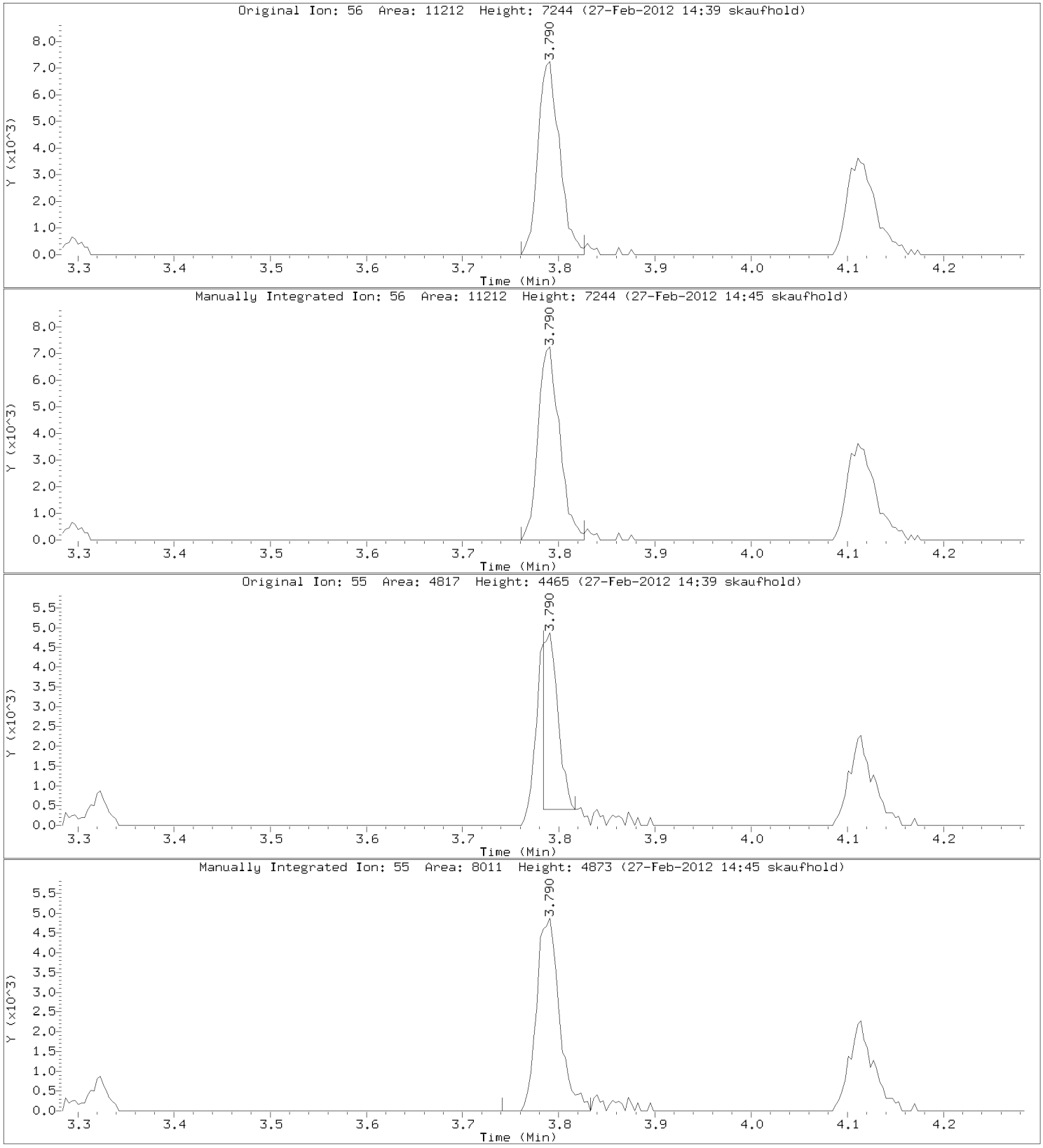
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05808.D
Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: Chloroethane
CAS Number: 75-00-3



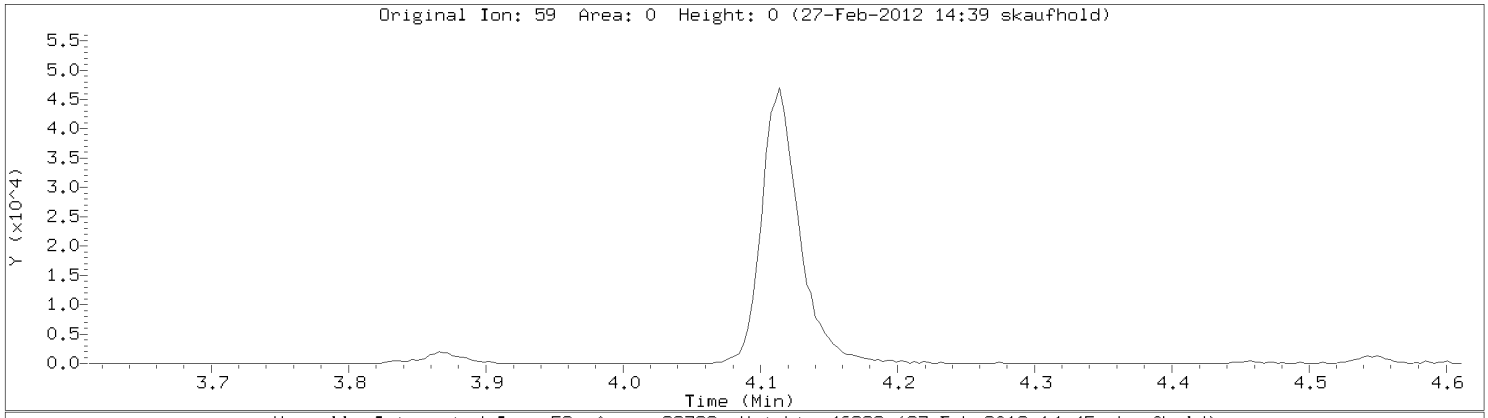
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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

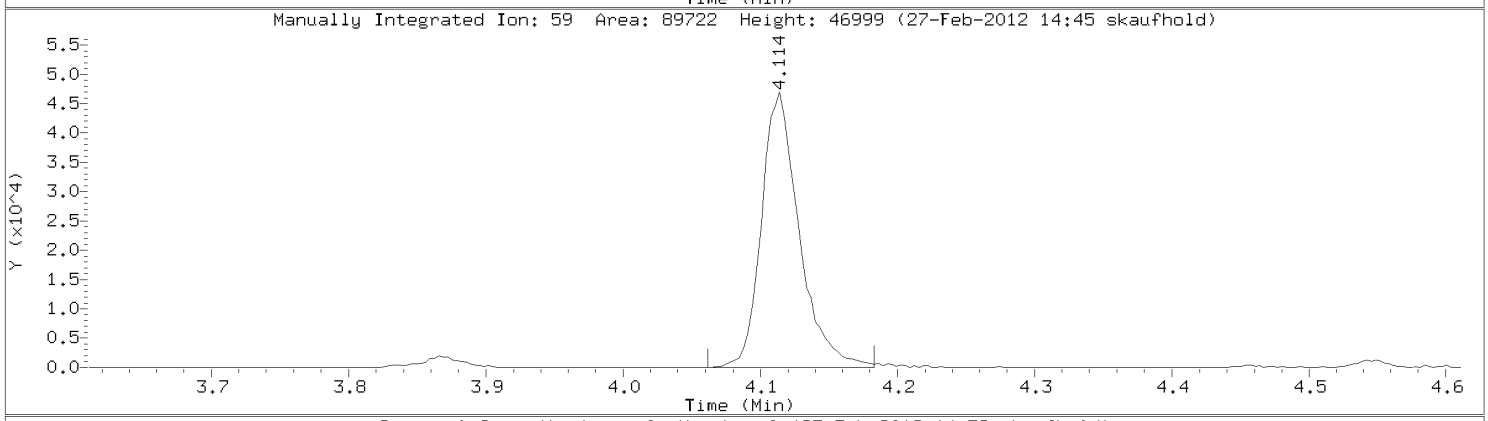
Compound: Acrolein
CAS Number: 107-02-08

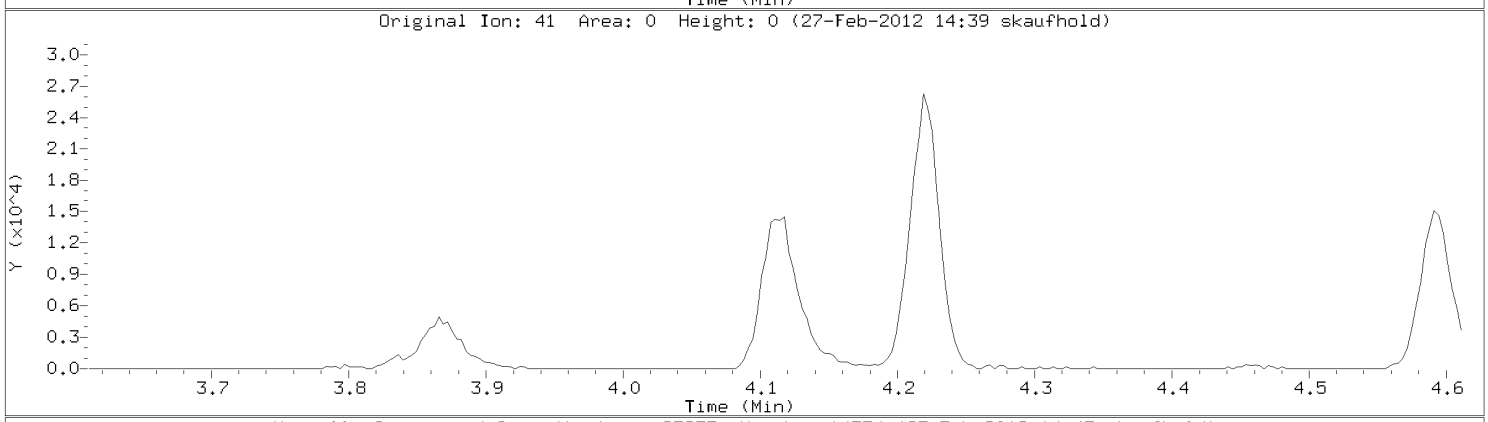


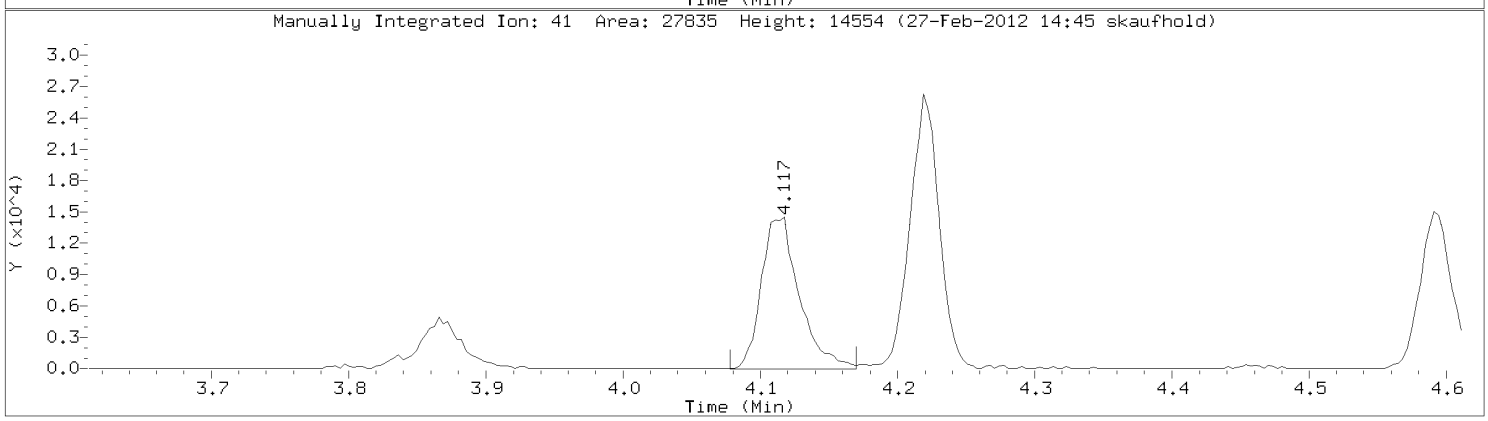
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05808.D
Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



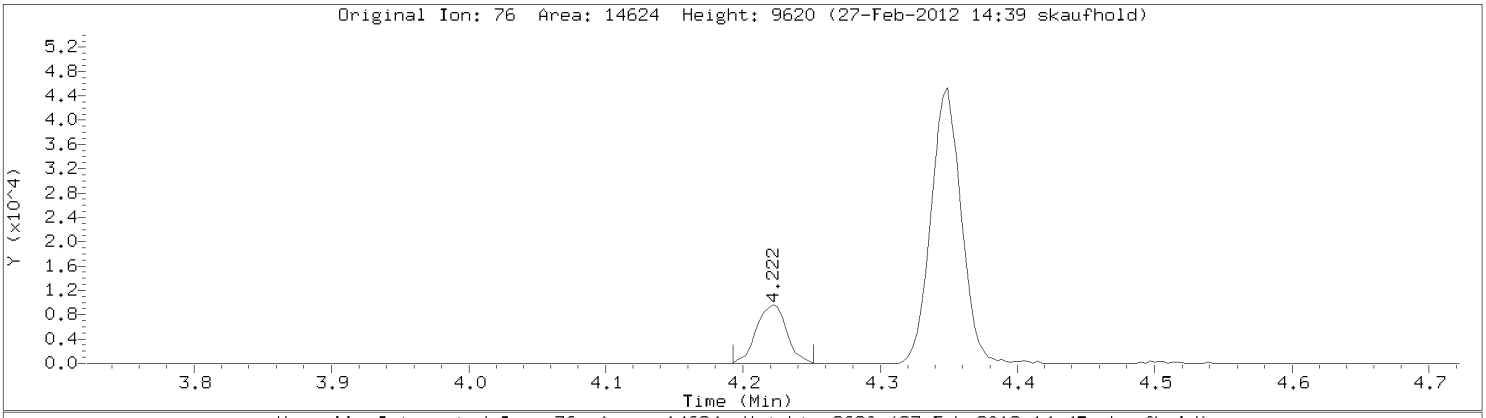


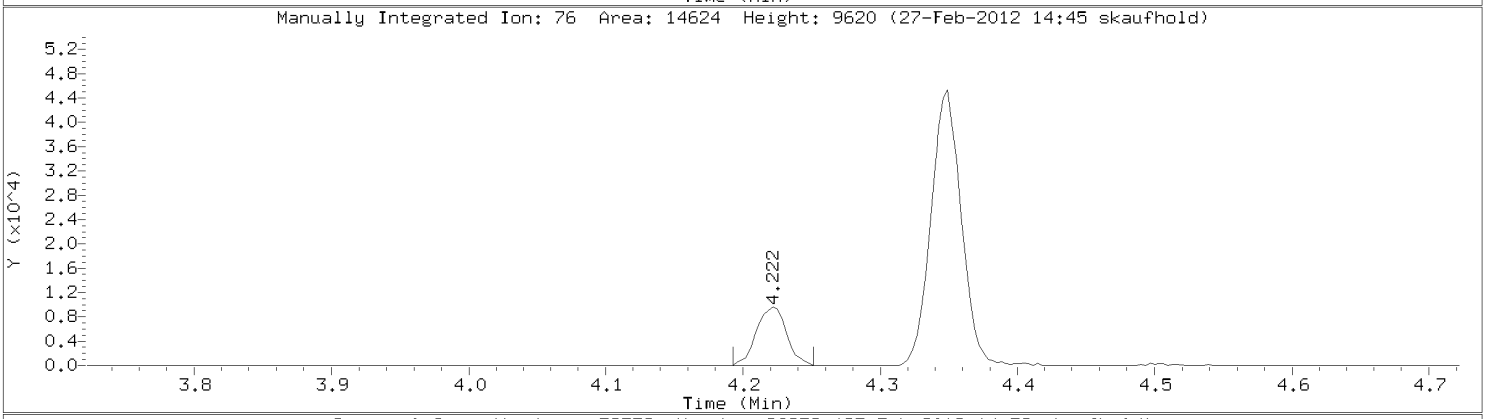


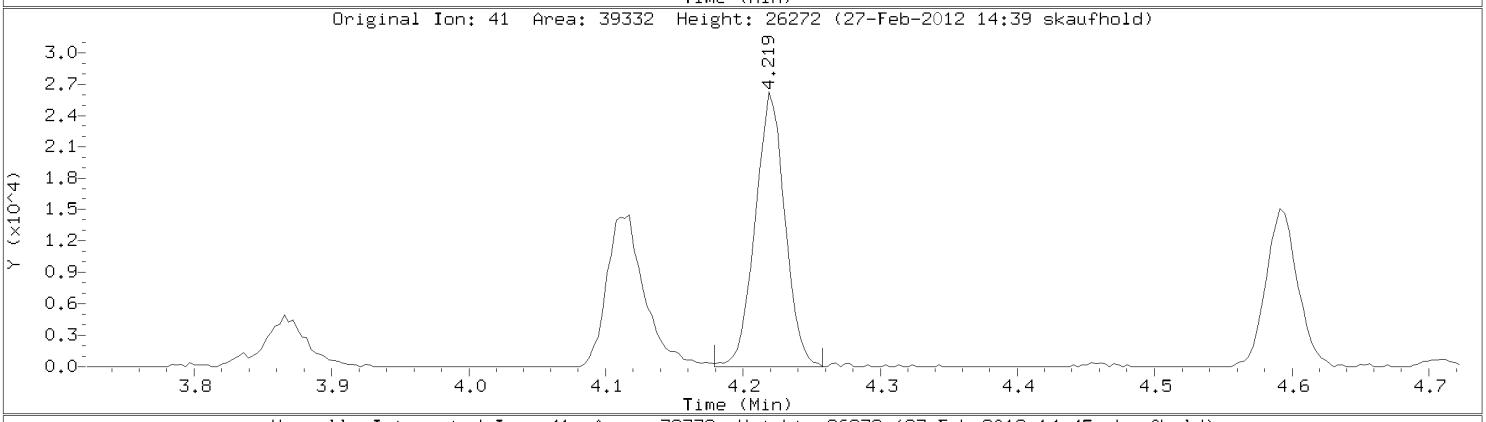


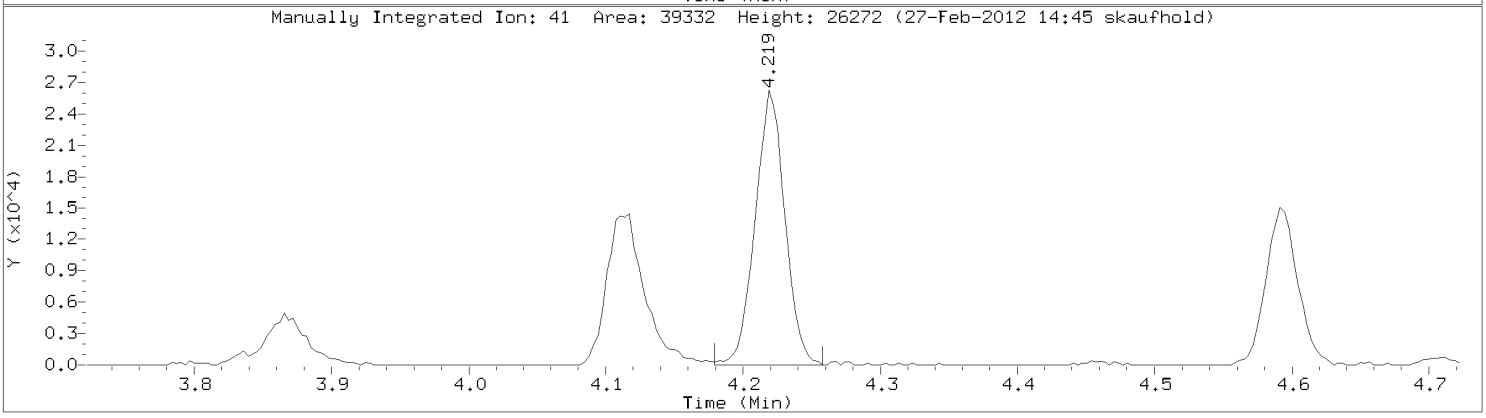
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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: Allyl Chloride
CAS Number: 107-05-1

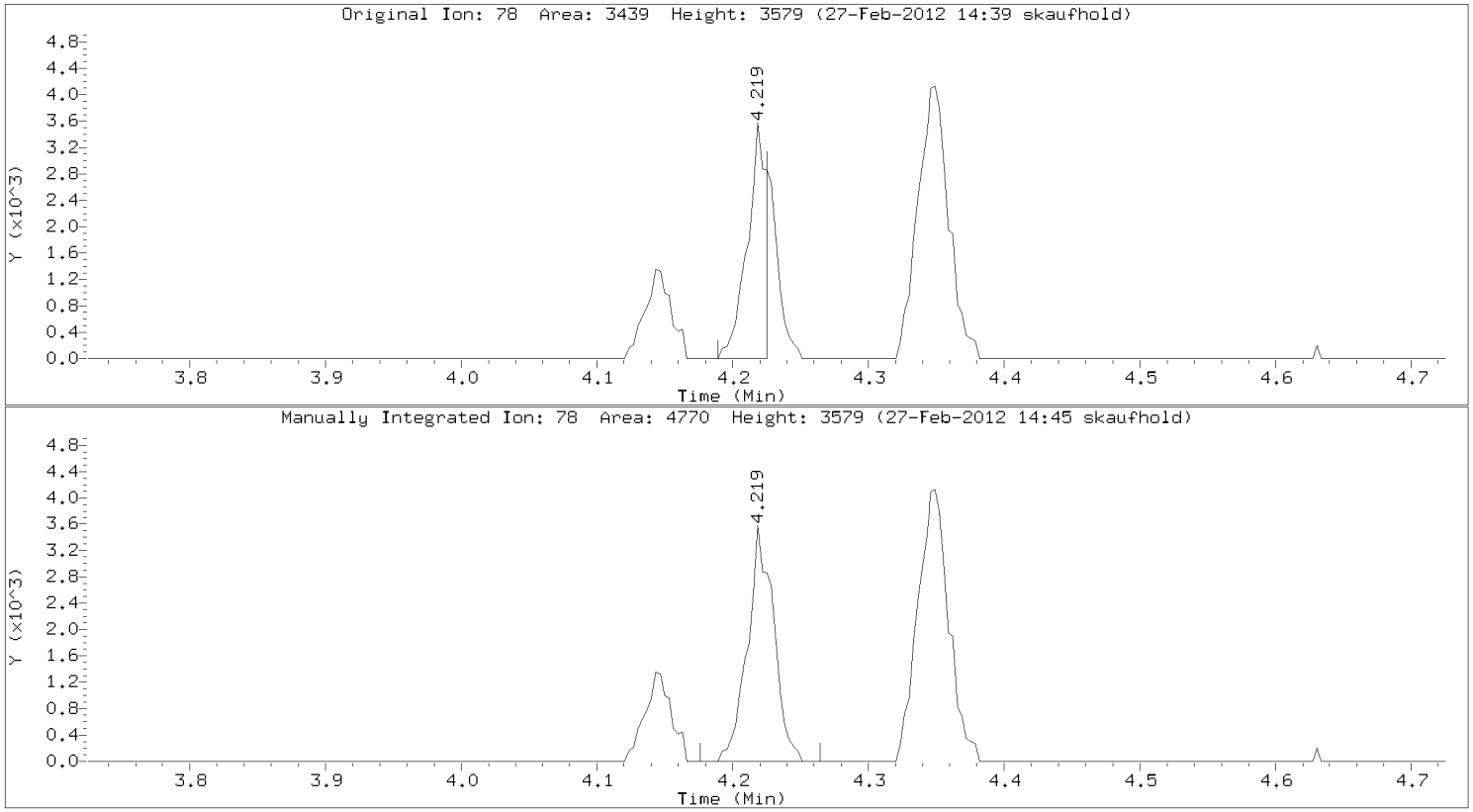






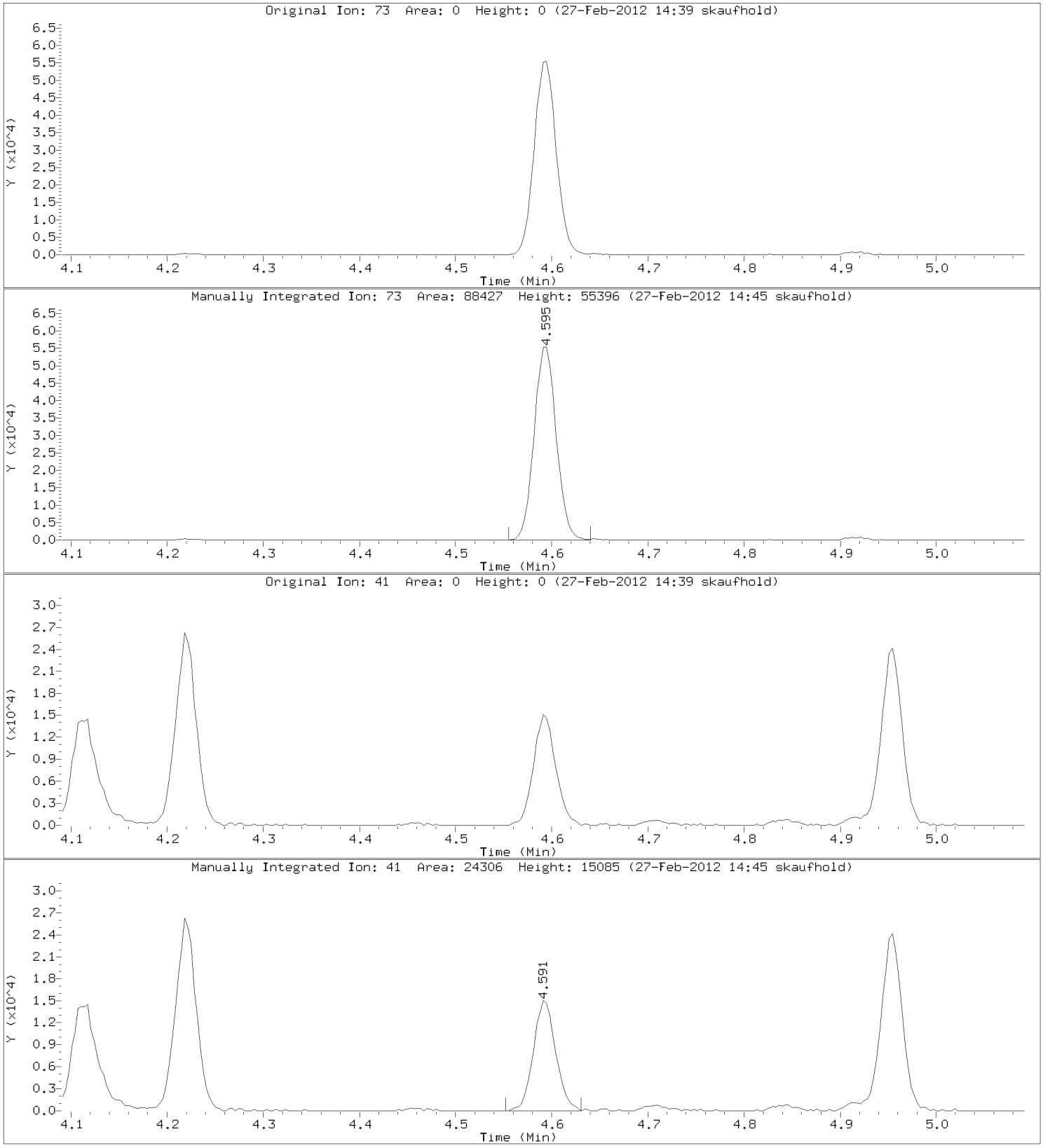


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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4



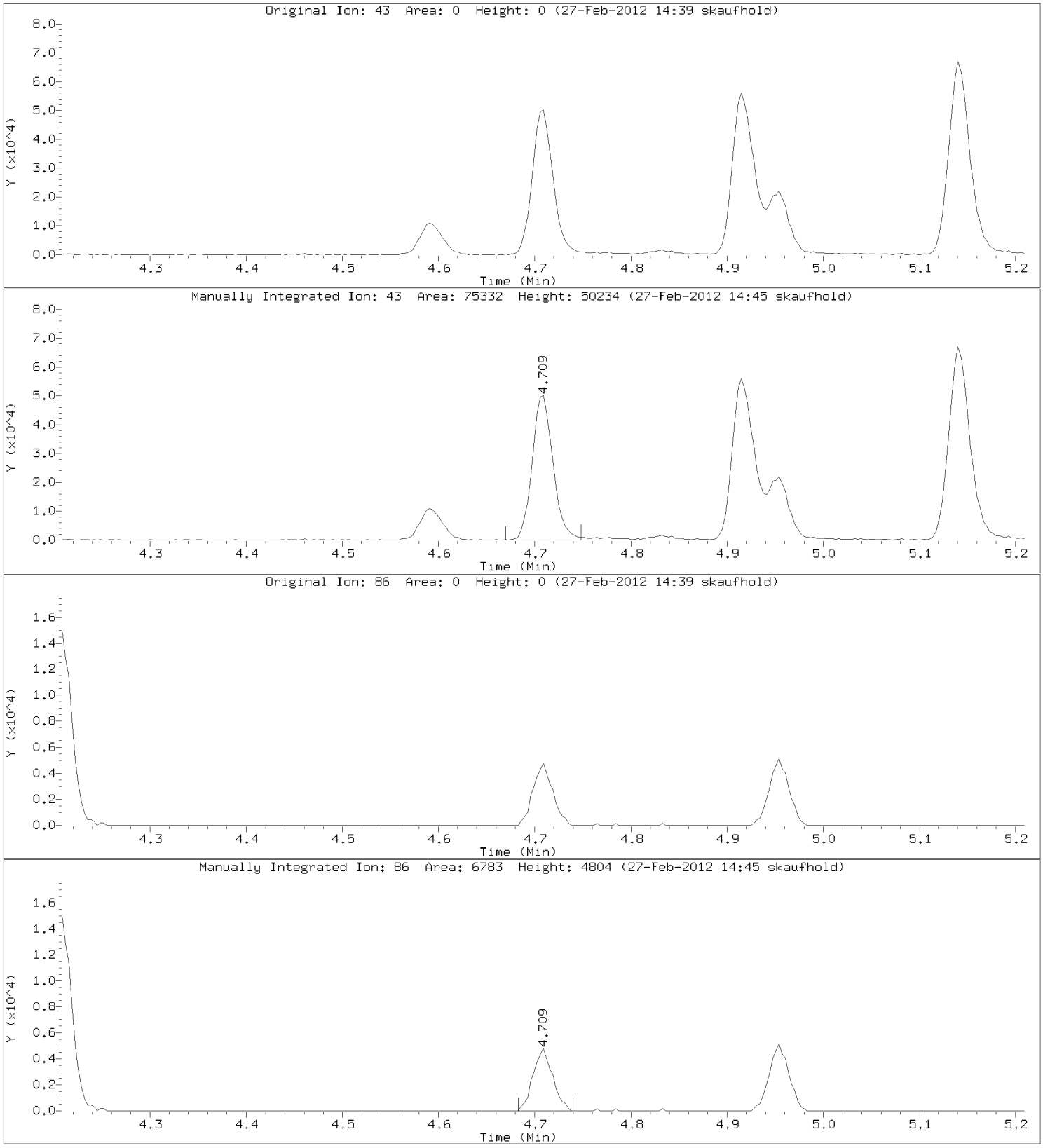
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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



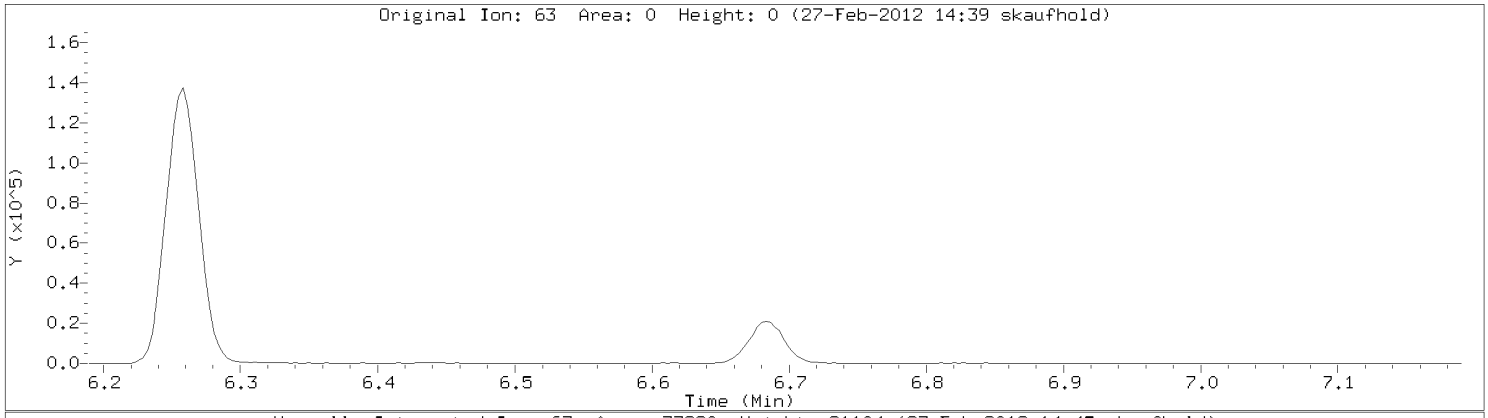
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Instrument: 10airD.i
Lab Sample ID: ICAL 4

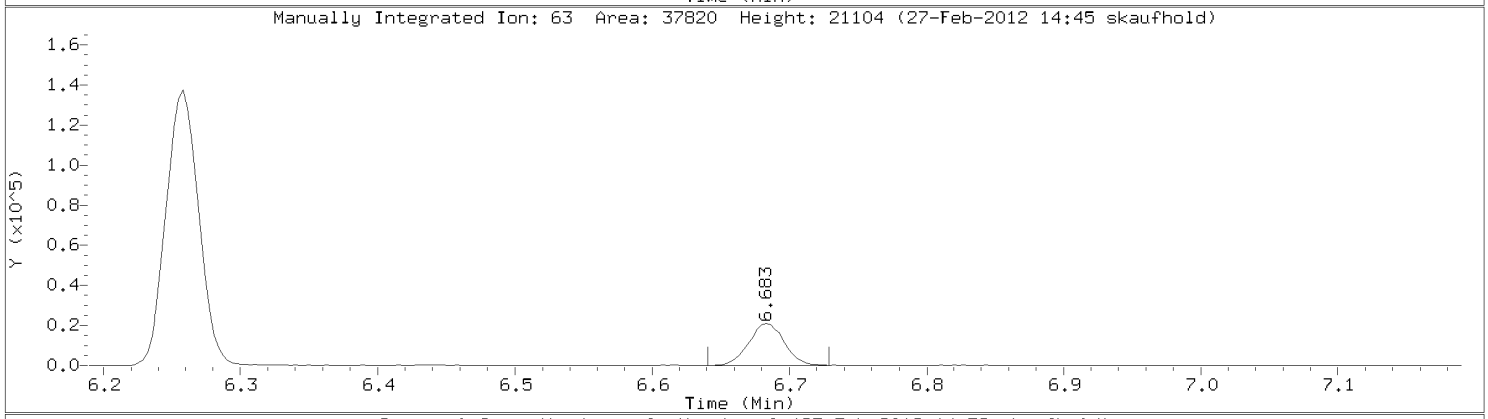
Compound: Vinyl Acetate
CAS Number: 108-05-4

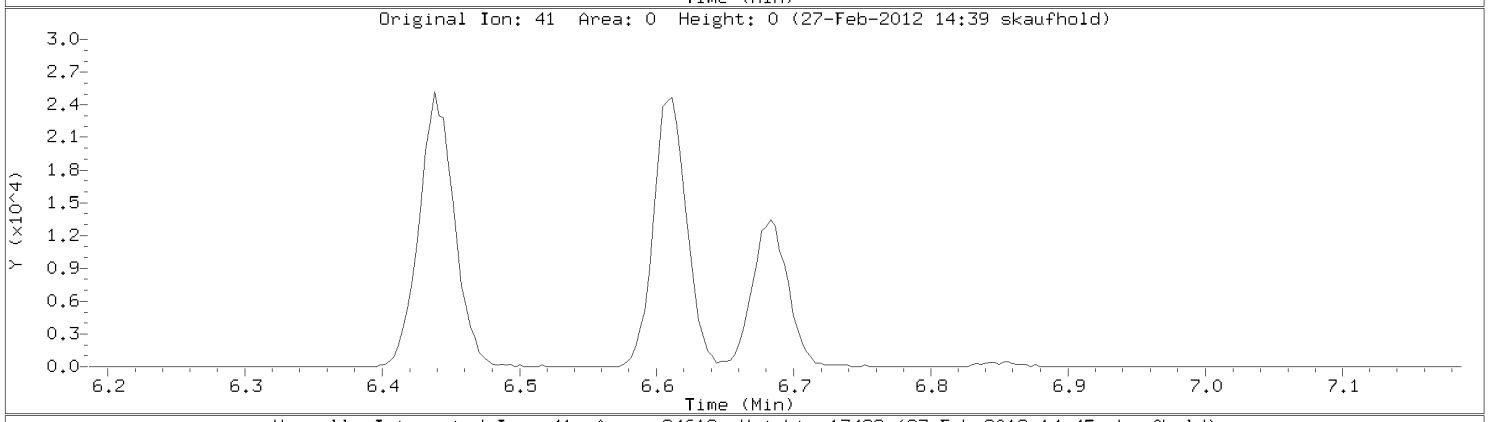


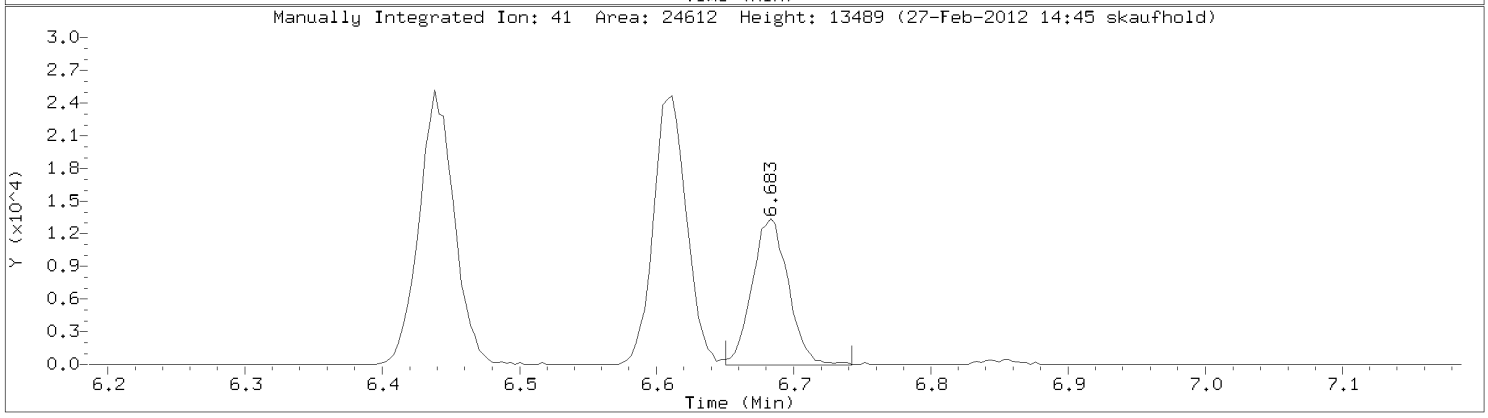
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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

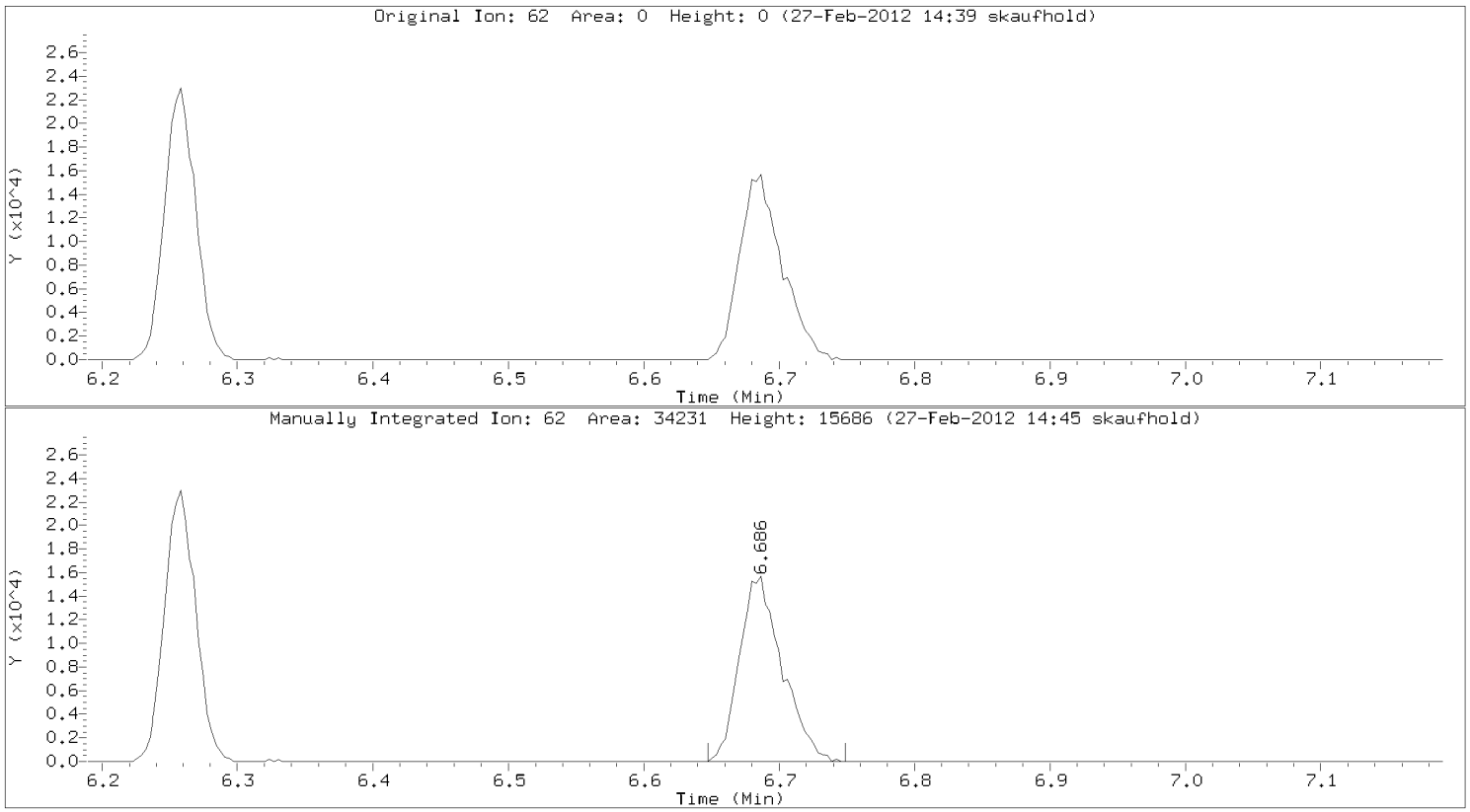






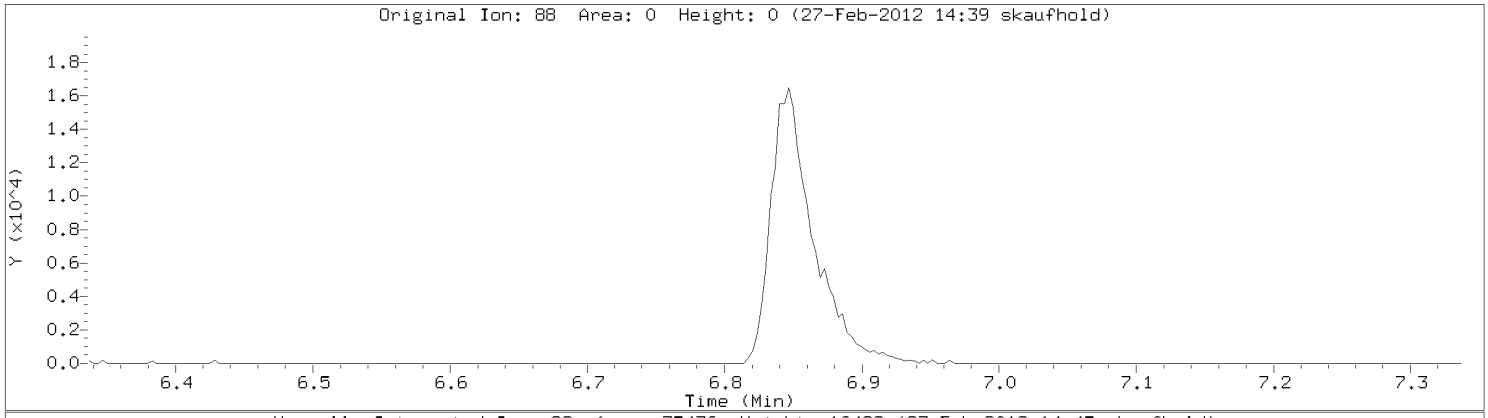


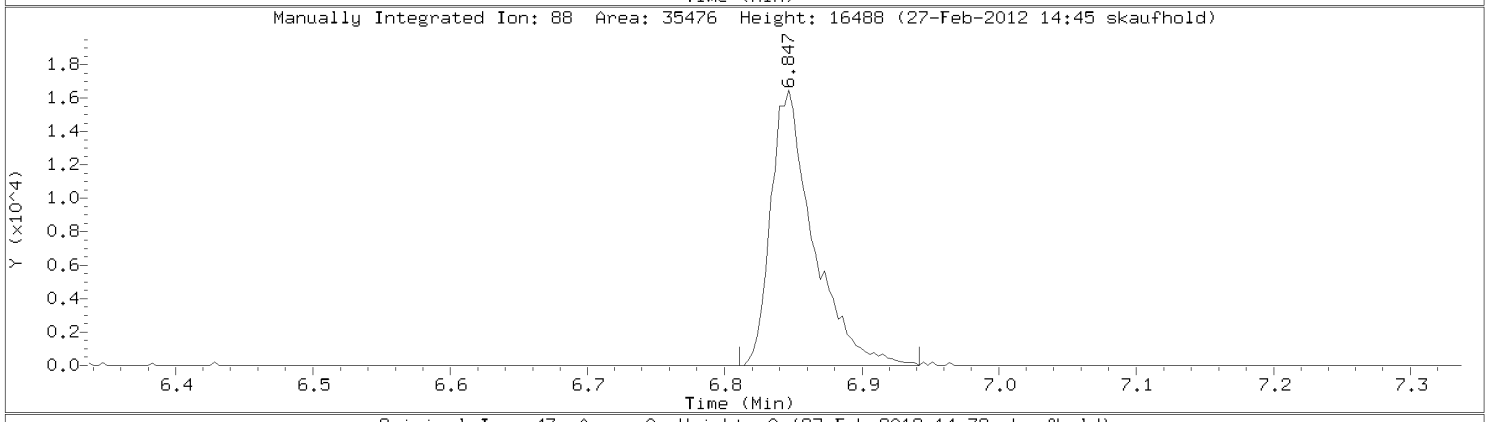
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Instrument: 10airD.i
Lab Sample ID: ICAL 4

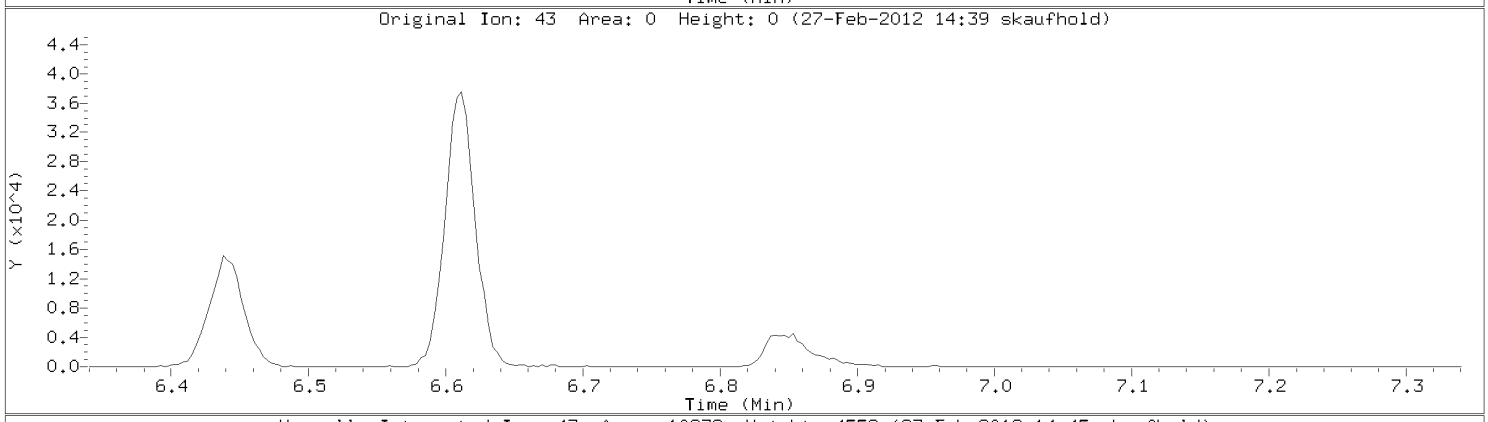


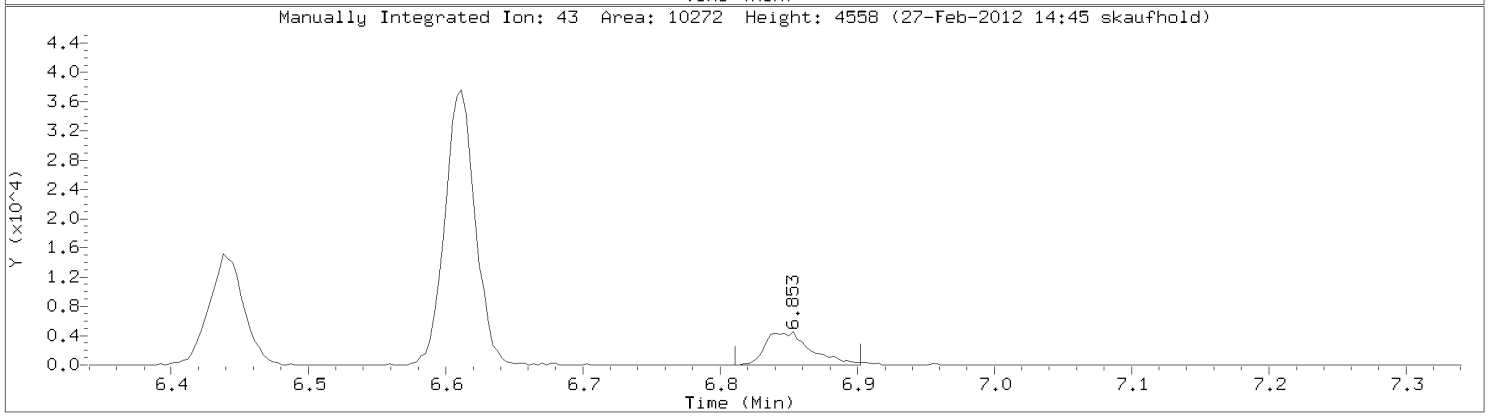
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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: 1,4-Dioxane
CAS Number: 123-91-1



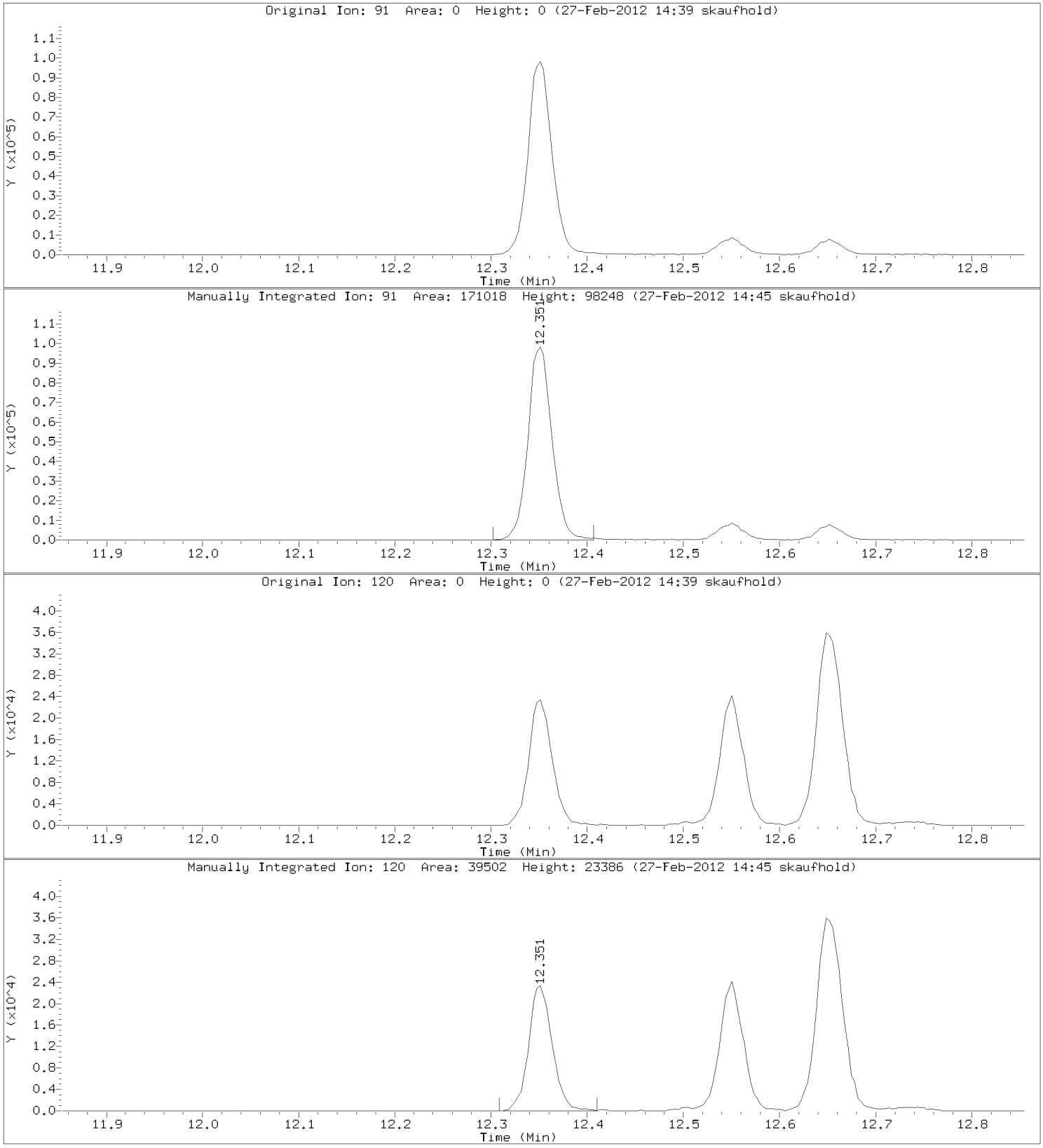






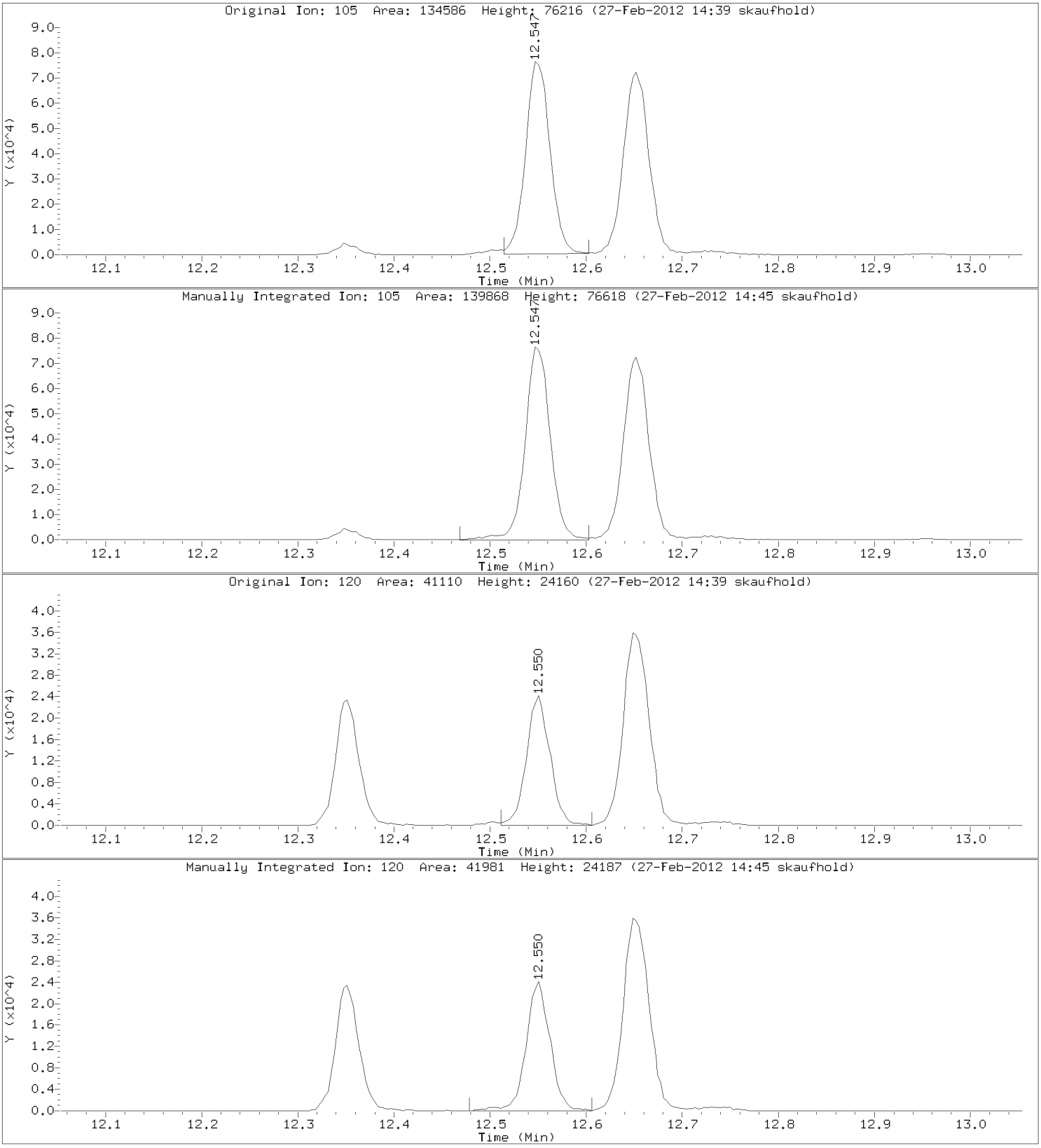
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05808.D
Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: N-Propylbenzene
CAS Number: 103-65-1

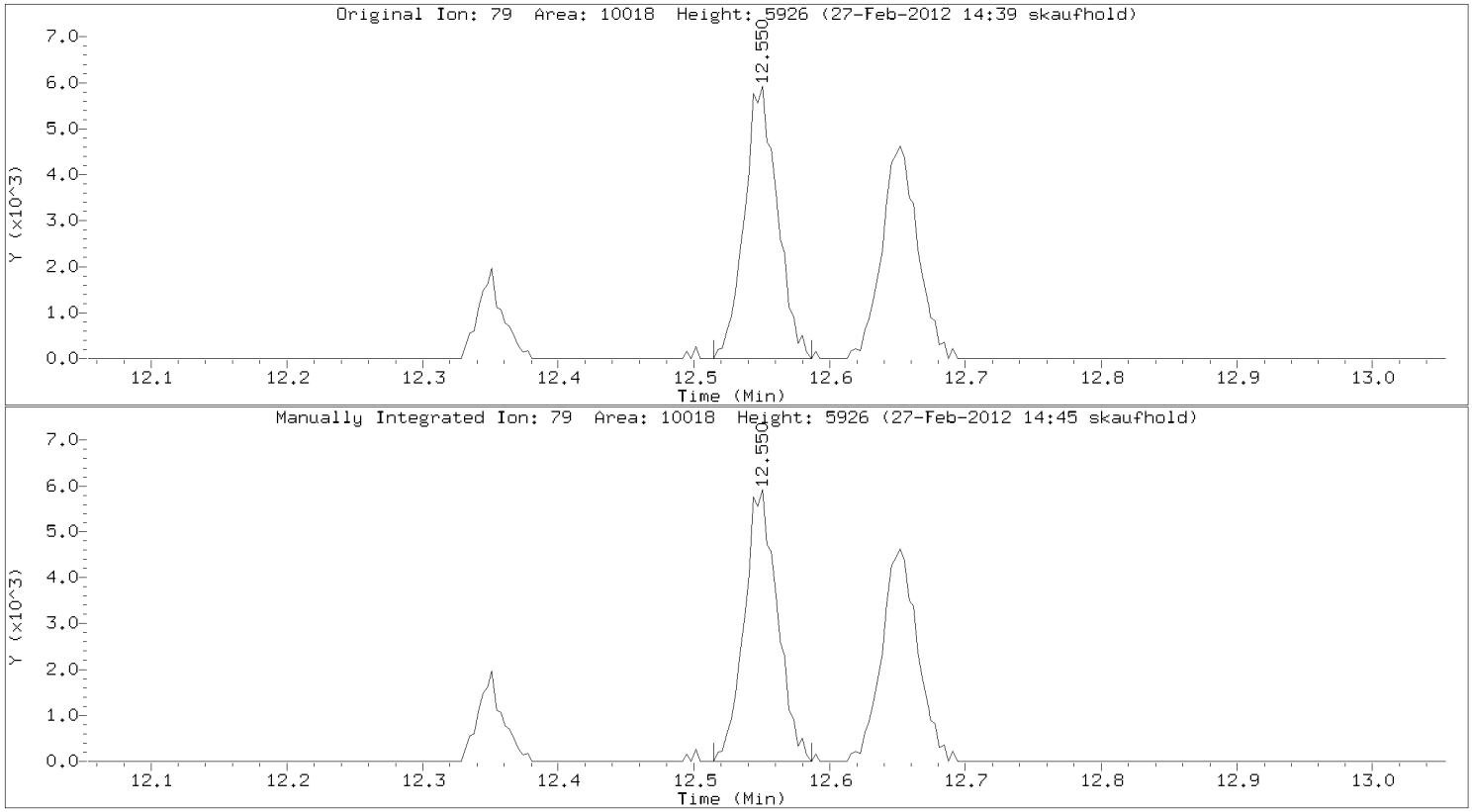


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05808.D
Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

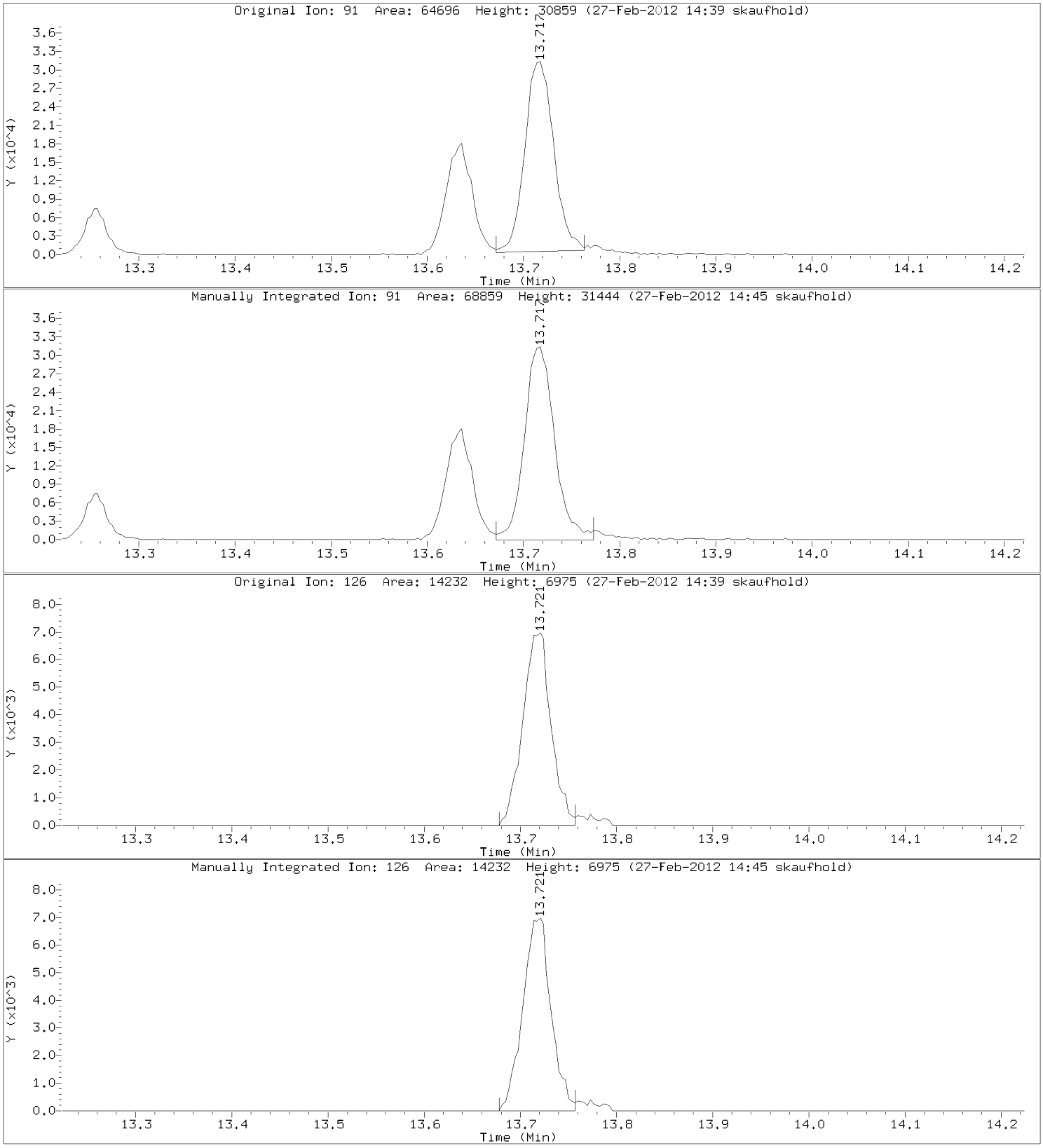


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Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05808.D
Injection Date: 27-FEB-2012 13:46
Instrument: 10airD.i
Lab Sample ID: ICAL 4

Compound: Benzyl Chloride
CAS Number: 100-44-7



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05809.D
Report Date: 27-Feb-2012 14:45

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TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05809.D
Lab Smp Id: ICAL 5
Inj Date : 27-FEB-2012 14:16
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 14:39 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 14:16 Cal File: 05809.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Propylene	41	3.058	3.058	(0.488)	178550	10.0000	10.0
2	Dichlorodifluoromethane	85	3.084	3.084	(0.493)	856801	10.0000	9.98
3	Dichlorotetrafluoroethane	85	3.185	3.185	(0.509)	774417	10.0000	9.97
4	Chloromethane	50	3.189	3.189	(0.509)	318673	10.0000	9.86
5	Vinyl chloride	62	3.277	3.277	(0.523)	272628	10.0000	10.8
6	1,3-Butadiene	54	3.323	3.323	(0.531)	183688	10.0000	9.99
7	Bromomethane	94	3.483	3.483	(0.556)	246101	10.0000	10.3
8	Chloroethane	64	3.542	3.542	(0.566)	109063	10.0000	10.6(M)
9	Ethanol	31	3.577	3.577	(0.571)	134478	10.0000	9.92
10	Vinyl Bromide	106	3.682	3.682	(0.588)	338467	10.0000	11.1
11	Acrolein	56	3.783	3.783	(0.604)	91320	10.0000	11.0
12	Trichlorofluoromethane	101	3.796	3.796	(0.606)	930812	10.0000	10.1
13	Acetone	43	3.829	3.829	(0.612)	480461	10.0000	6.60
14	Isopropyl Alcohol	45	3.859	3.859	(0.616)	409929	10.0000	9.91
15	1,1-Dichloroethene	61	4.091	4.091	(0.653)	530702	10.0000	10.8
16	Acrylonitrile	53	4.094	4.094	(0.654)	176879	10.0000	9.97
17	Tert Butyl Alcohol	59	4.110	4.110	(0.657)	453208	10.0000	9.90(M)
18	Freon 113	101	4.146	4.146	(0.662)	673172	10.0000	10.1
19	Methylene chloride	49	4.208	4.208	(0.672)	330541	10.0000	9.98
20	Allyl Chloride	76	4.221	4.221	(0.674)	128077	10.0000	9.99
21	Carbon Disulfide	76	4.349	4.349	(0.695)	597097	10.0000	7.02
22	trans-1,2-dichloroethene	96	4.548	4.548	(0.726)	343401	10.0000	10.8
23	Methyl Tert Butyl Ether	73	4.591	4.591	(0.733)	651235	10.0000	9.98(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05809.D
Report Date: 27-Feb-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Vinyl Acetate	43	4.708	4.708	(0.752)	670078	10.0000	9.99
	25 1,1-Dichloroethane	63	4.715	4.715	(0.753)	541263	10.0000	10.2
$	26 Hexane-d14(S)	66	4.836	4.836	(0.772)	314650	10.0000	10.2
	27 Methyl Ethyl Ketone	72	4.914	4.914	(0.785)	129164	10.0000	9.94(M)
	28 n-Hexane	57	4.957	4.957	(0.792)	389837	10.0000	9.88(M)
	29 cis-1,2-Dichloroethene	96	5.120	5.120	(0.818)	333248	10.0000	11.6
	30 Ethyl Acetate	43	5.140	5.140	(0.821)	628209	10.0000	9.94
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.264	5.264	(0.841)	751788	10.0000	10.6
	33 Tetrahydrofuran	42	5.463	5.463	(0.873)	297321	10.0000	9.99
	34 1,1,1-Trichloroethane	97	5.758	5.758	(0.920)	758229	10.0000	9.99
	35 1,2-Dichloroethane	62	5.774	5.774	(0.922)	518095	10.0000	9.99
	36 Benzene	78	6.052	6.052	(0.967)	917804	10.0000	11.5
	37 Carbon tetrachloride	117	6.071	6.071	(0.970)	888450	10.0000	9.99
	38 Cyclohexane	56	6.078	6.078	(0.971)	402133	10.0000	9.99
*	39 1,4-Difluorobenzene	114	6.261	6.261	(1.000)	1308008	10.0000	
	40 2,2,4-Trimethylpentane	57	6.444	6.444	(1.029)	1257988	10.0000	9.99
	41 Heptane	43	6.614	6.614	(1.056)	517945	10.0000	9.99
	42 1,2-Dichloropropane	63	6.689	6.689	(1.068)	316557	10.0000	11.0(M)
	43 Trichloroethene	130	6.712	6.712	(1.072)	566112	10.0000	10.0
	44 1,4-Dioxane	88	6.836	6.836	(1.092)	169107	10.0000	9.87(M)
	45 Bromodichloromethane	83	6.833	6.833	(1.091)	791903	10.0000	9.99
	46 Methyl Isobutyl Ketone	43	7.418	7.418	(1.185)	607420	10.0000	9.87
	47 cis-1,3-Dichloropropene	75	7.470	7.470	(1.193)	555557	10.0000	10.0
	48 trans-1,3-Dichloropropene	75	7.971	7.971	(1.273)	479505	10.0000	10.0
$	49 Toluene-d8 (S)	98	8.046	8.046	(1.285)	1083155	10.0000	9.96
	50 Toluene	91	8.140	8.140	(1.300)	1155656	10.0000	10.0
	51 1,1,2-Trichloroethane	97	8.147	8.147	(1.301)	412299	10.0000	10.9
	52 Methyl Butyl Ketone	43	8.454	8.454	(0.853)	562967	10.0000	9.87
	53 Dibromochloromethane	129	8.768	8.768	(0.885)	895636	10.0000	10.0
	54 1,2-Dibromoethane	107	9.039	9.039	(0.912)	697784	10.0000	10.0
	55 Tetrachloroethene	166	9.128	9.128	(0.921)	713732	10.0000	10.0
*	56 Chlorobenzene - d5	117	9.909	9.909	(1.000)	717767	10.0000	
	57 Chlorobenzene	112	9.961	9.961	(1.005)	1033007	10.0000	12.8
	58 Ethyl Benzene	91	10.262	10.262	(1.036)	1441925	10.0000	10.0
	59 m&p-Xylene	91	10.435	10.435	(1.053)	2316512	20.0000	20.0
	60 2-Heptanone	43	10.706	10.706	(1.710)	736538	10.0000	9.62(A)
	61 Bromoform	173	10.889	10.889	(1.099)	928302	10.0000	10.0
	62 Styrene	104	10.932	10.932	(1.103)	1052684	10.0000	10.0
	63 o-Xylene	91	11.010	11.010	(1.111)	1041337	10.0000	10.0
	64 1,1,2,2-Tetrachloroethane	83	11.324	11.324	(1.143)	850484	10.0000	10.0
	65 Isopropylbenzene	105	11.690	11.690	(1.180)	1691458	10.0000	10.0
	66 N-Propylbenzene	91	12.354	12.354	(1.247)	1786001	10.0000	10.0
	67 4-Ethyltoluene	105	12.553	12.553	(1.267)	1408448	10.0000	10.0(M)
	68 1,3,5-Trimethylbenzene	105	12.658	12.658	(1.277)	1354102	10.0000	10.0
	69 1,2,4-Trimethylbenzene	105	13.259	13.259	(1.338)	1269903	10.0000	10.0
	70 1,3-Dichlorobenzene	146	13.615	13.615	(1.374)	1100276	10.0000	10.0
	71 Sec- Butylbenzene	105	13.638	13.638	(1.376)	1957232	10.0000	10.0
$	72 1,4-dichlorobenzene-d4 (S)	150	13.697	13.697	(1.382)	335545	10.0000	10.4
	73 Benzyl Chloride	91	13.720	13.720	(1.385)	1042094	10.0000	10.0
	74 1,4-Dichlorobenzene	146	13.746	13.746	(1.387)	1080286	10.0000	10.0
	75 1,2-Dichlorobenzene	146	14.279	14.279	(1.441)	971673	10.0000	10.0
	76 N-Butylbenzene	91	14.554	14.554	(1.469)	1331719	10.0000	10.0
	77 1,2,4-Trichlorobenzene	180	16.897	16.897	(1.705)	411811	10.0000	9.96

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05809.D
Report Date: 27-Feb-2012 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78 Naphthalene	128	17.077	17.077	(1.723)	802466	10.0000	9.88
79 Hexachlorobutadiene	225	17.446	17.446	(1.761)	293849	10.0000	9.97

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05809.D
Report Date: 27-Feb-2012 14:45

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05809.D
Lab Smp Id: ICAL 5
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

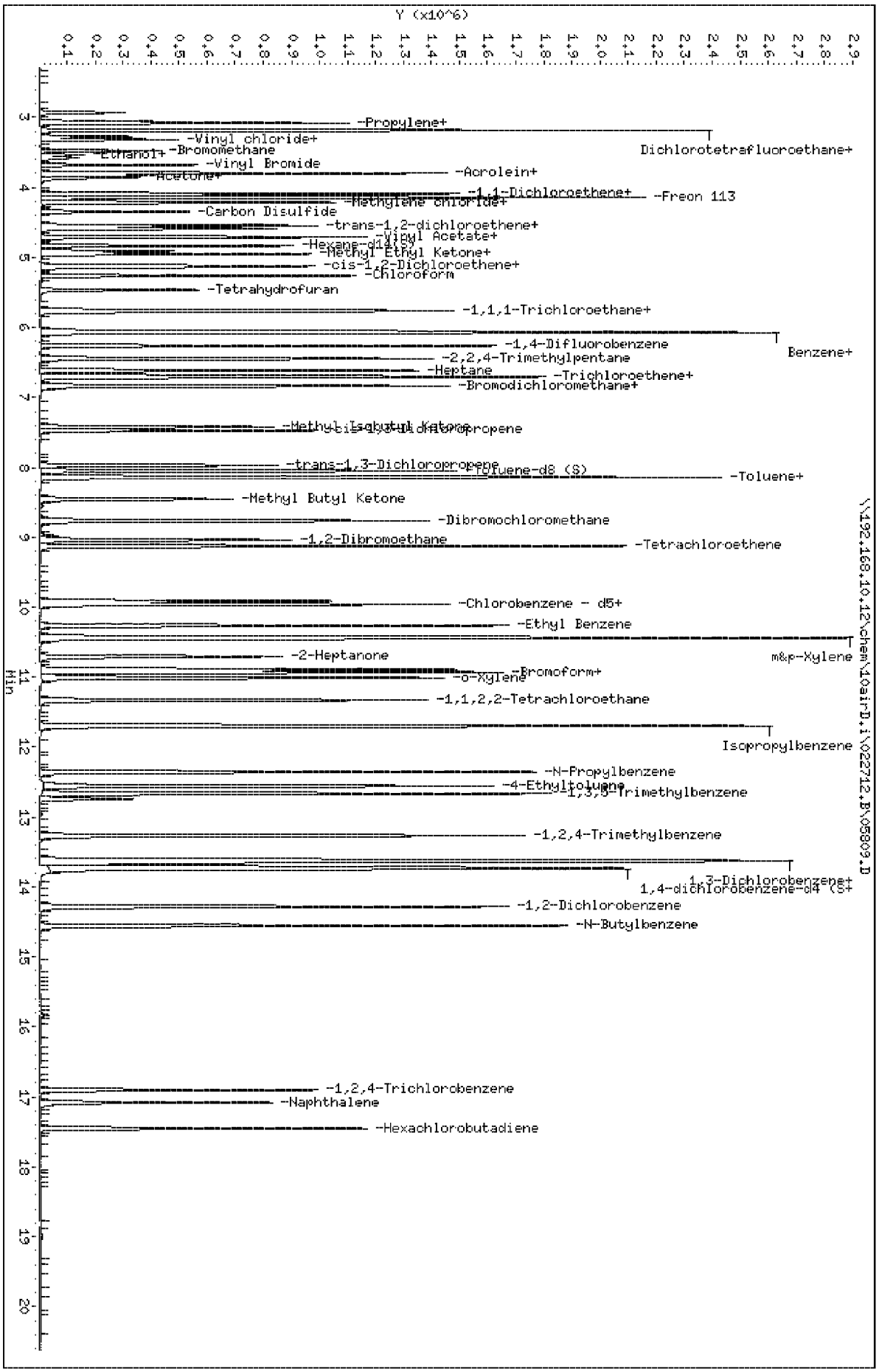
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1308008	0.00
56 Chlorobenzene - d	717767	430660	1004874	717767	0.00

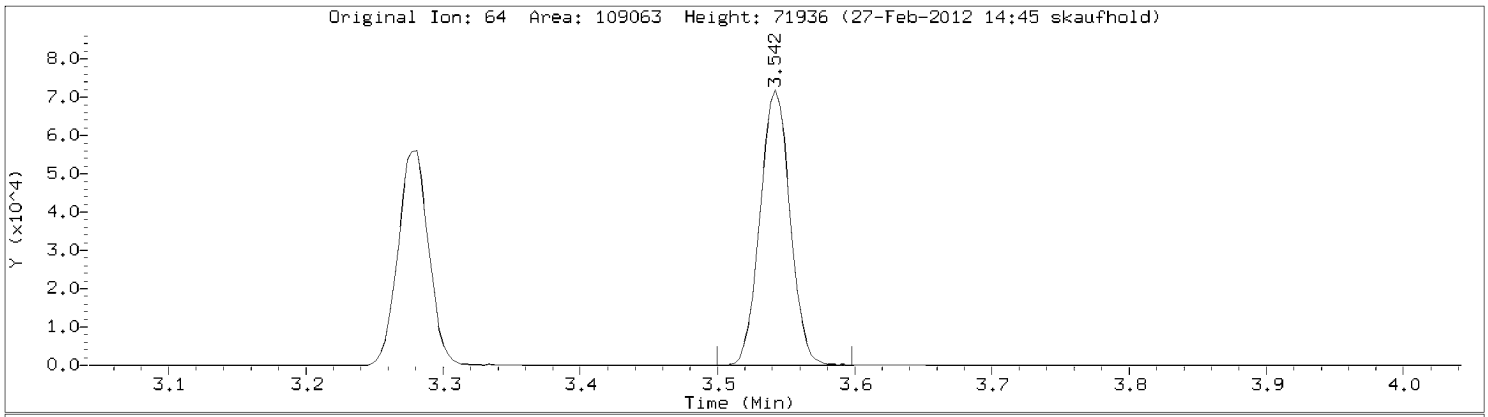
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	0.00
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	0.00

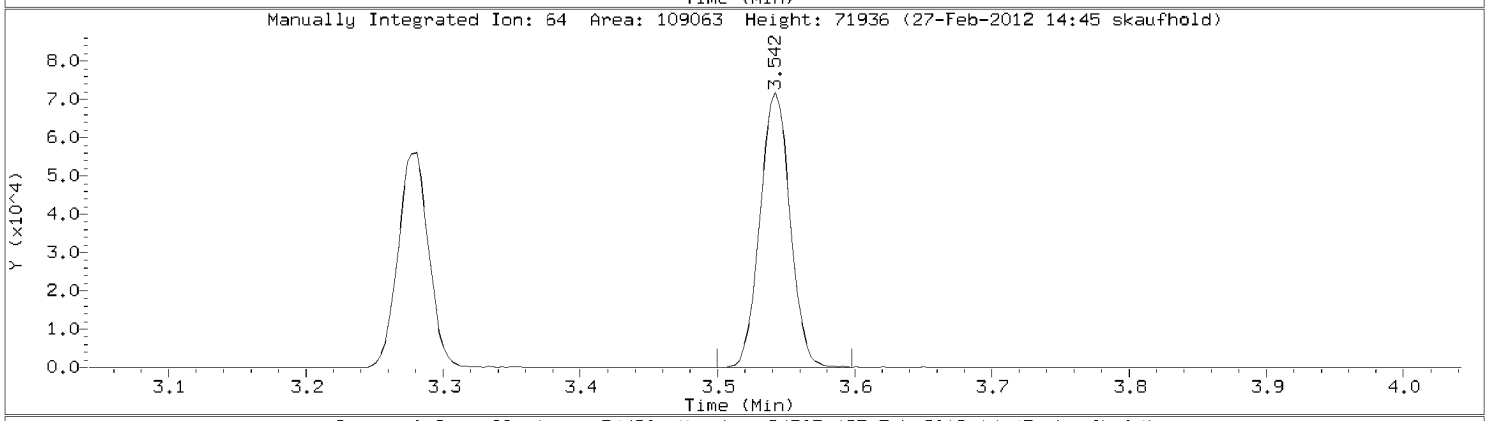
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

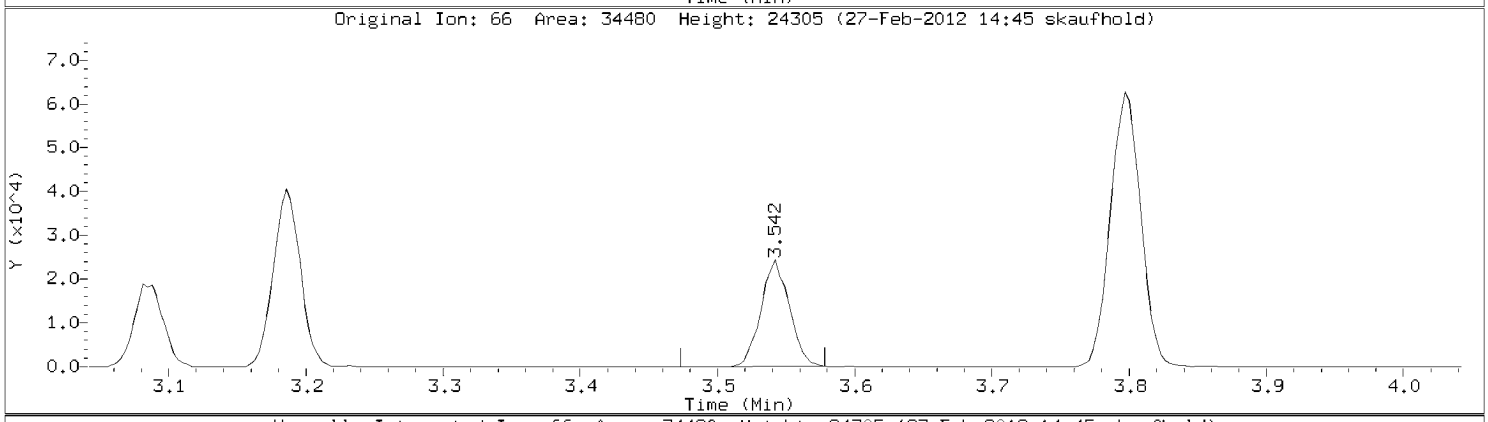

Y (x10^6)
Data File: \\192.168.10.12\chem\10air.i\022712.b\05809.D
Date : 27-FEB-2012 14:16
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10air.i
Operator: SK4
Column diameter: 0.32
\\192.168.10.12\chem\10air.i\022712.b\05809.D
Min
-Propylene+
-Vinyl chloride+
-Bromomethane
Ethanol+
-Vinyl Bromide
Acetone+
-Acrolein+
-1,1-Dichloroethene+
-Freon 113
-Methylene chloride+
-Carbon Disulfide
-trans-1,2-dichloroethene+
-Vinyl Acetate+
-Hexane-d14 (S)
-Methyl Ethyl Ketone+
-cis-1,2-Dichloroethene+
-Chloroform
-Tetrahydrofuran
-1,1,1-Trichloroethane+
-1,4-Difluorobenzene
-2,2,4-Trimethylpentane
-Heptane
-Trichloroethene+
-Bromodichloromethane+
-Methyl Isobutyl Ketone
-cis-1,3-Dichloropropene
-trans-1,3-Dichloropropene
-Toluene-d8 (S)
-Toluene+
-Methyl Butyl Ketone
-Dibromochloromethane
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
-2-Heptanone
m&p-Xylene
-Bromoform+
-o-Xylene
-1,1,2,2-Tetrachloroethane
Dichlorotetrafluoroethane+
Benzene+
Isopropylbenzene
-N-Propylbenzene
-4-Ethyltoluene
1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
1,3-Dichlorobenzene+
1,4-dichlorobenzene-d4 (S+
-1,2-Dichlorobenzene
-N-Butylbenzene
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene

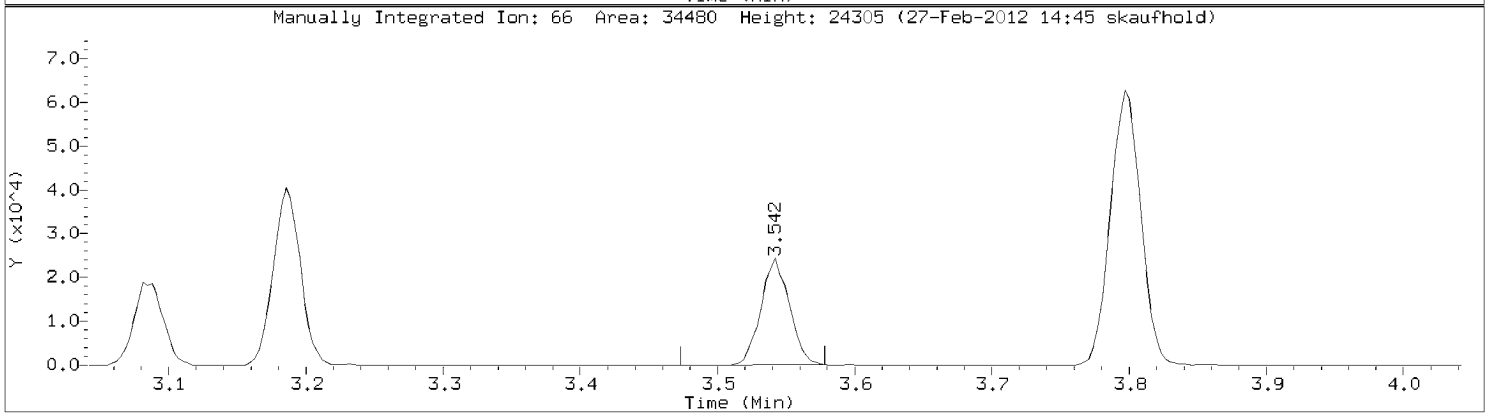
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Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: Chloroethane
CAS Number: 75-00-3



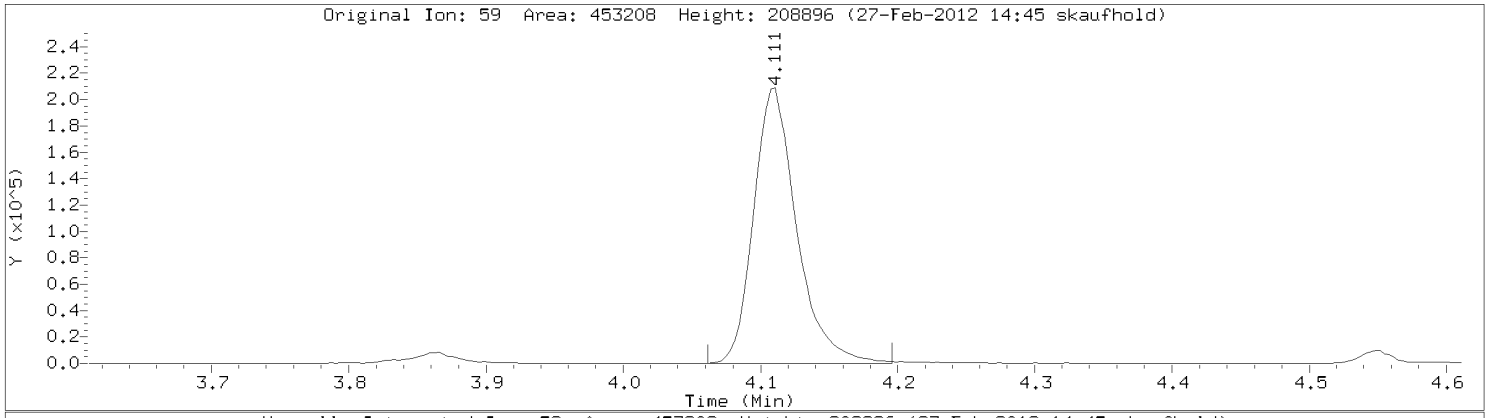


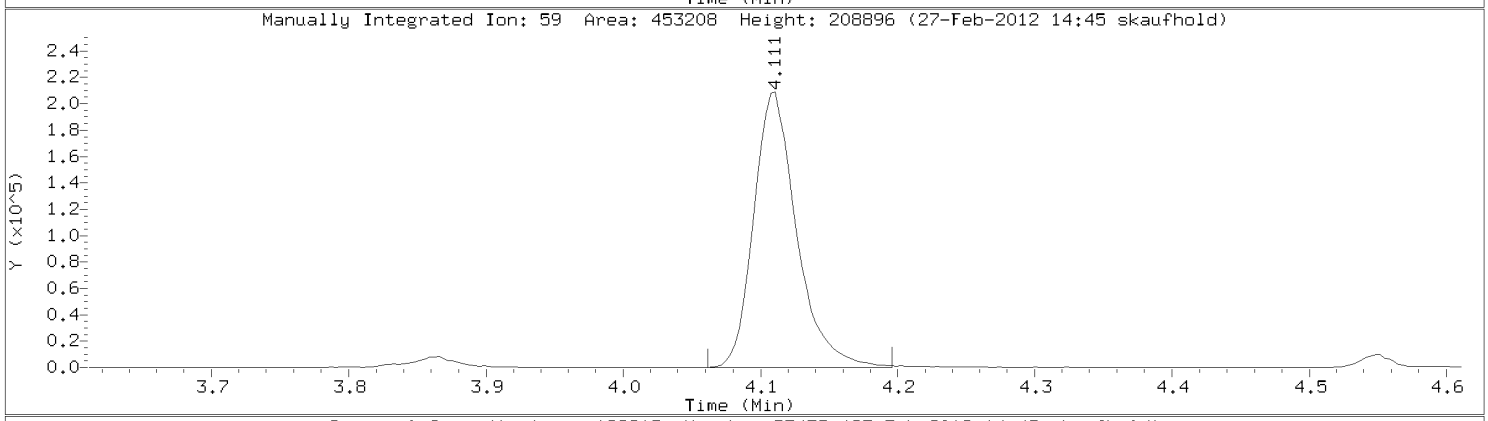


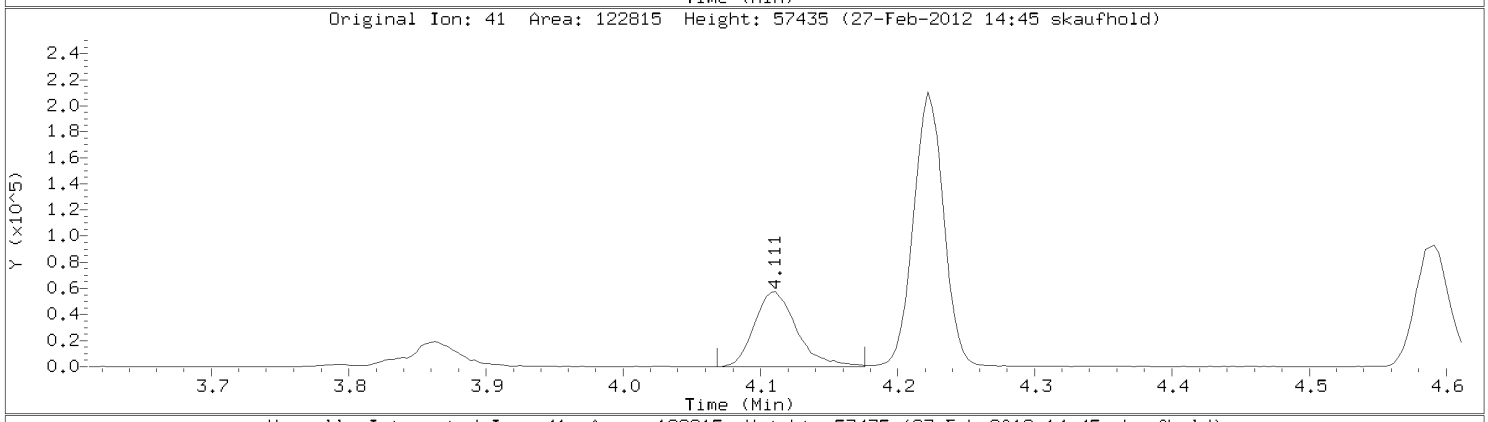


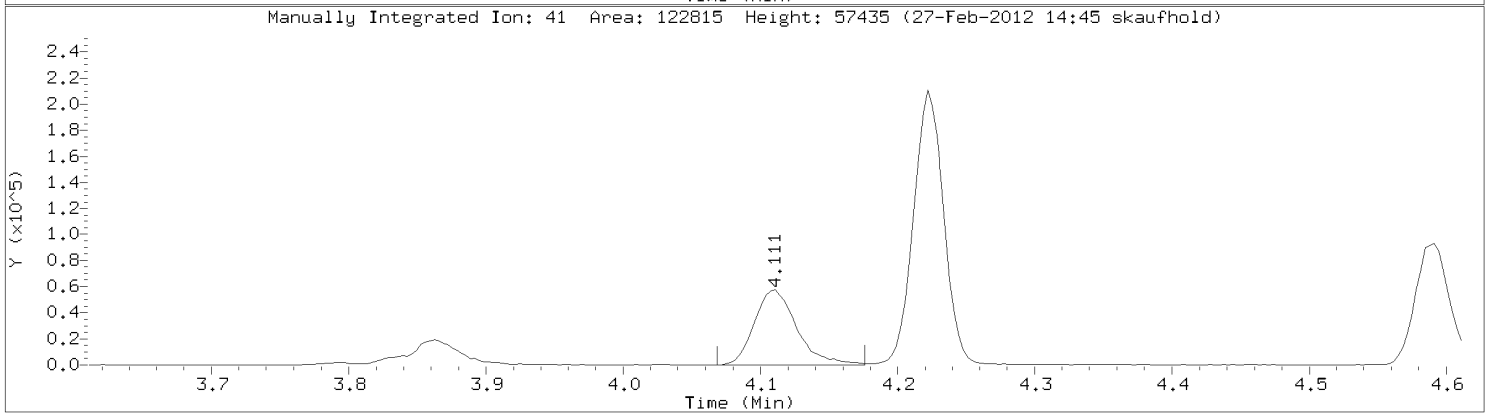
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Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



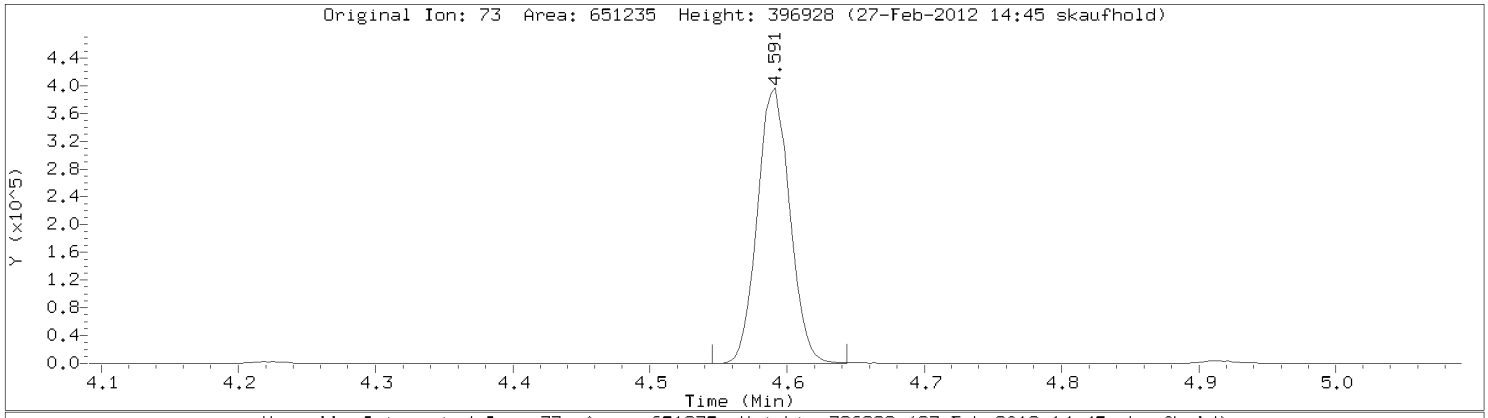


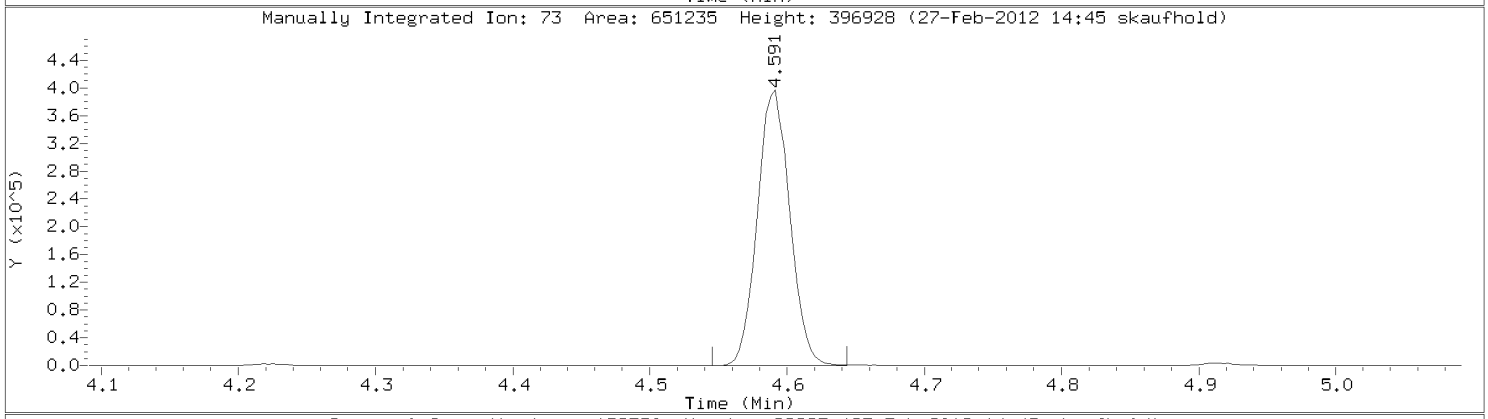


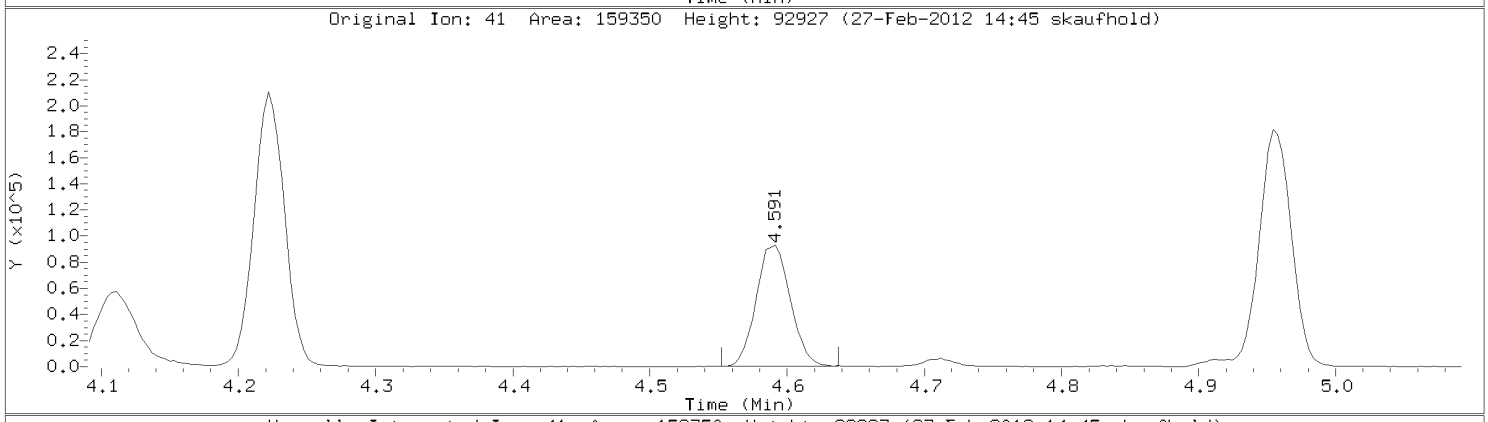


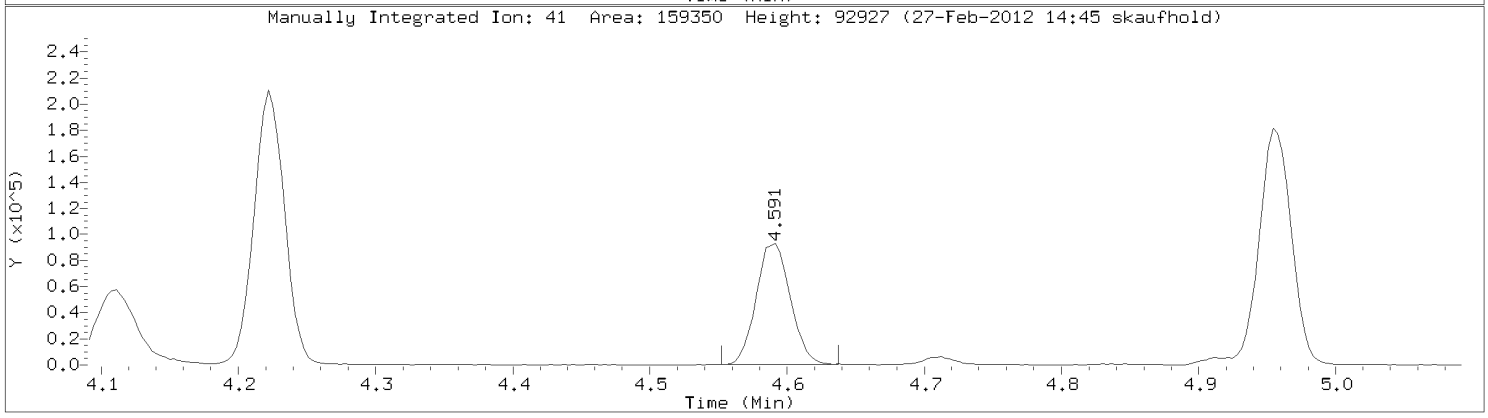
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Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



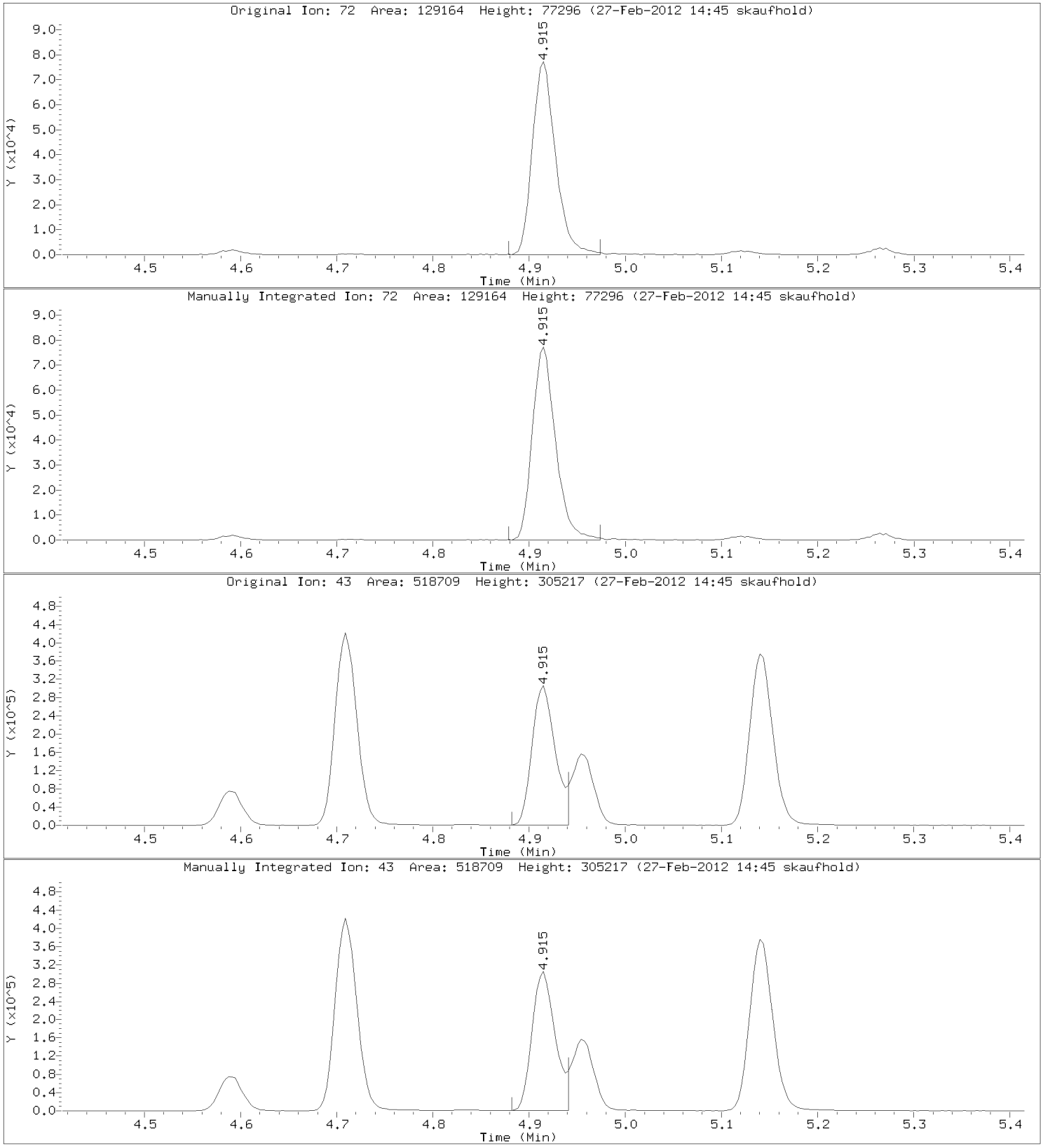






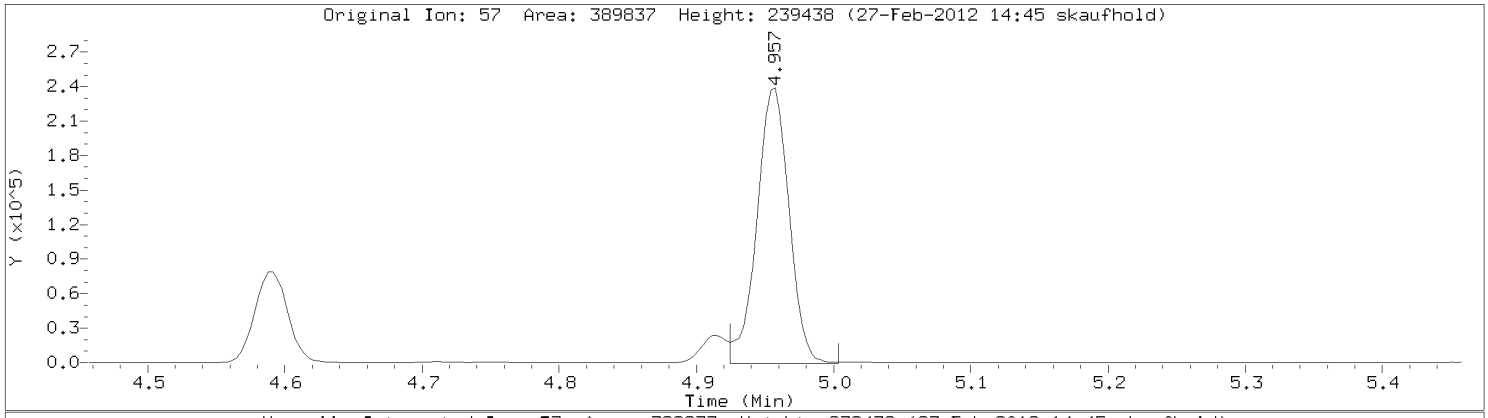
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Lab Sample ID: ICAL 5

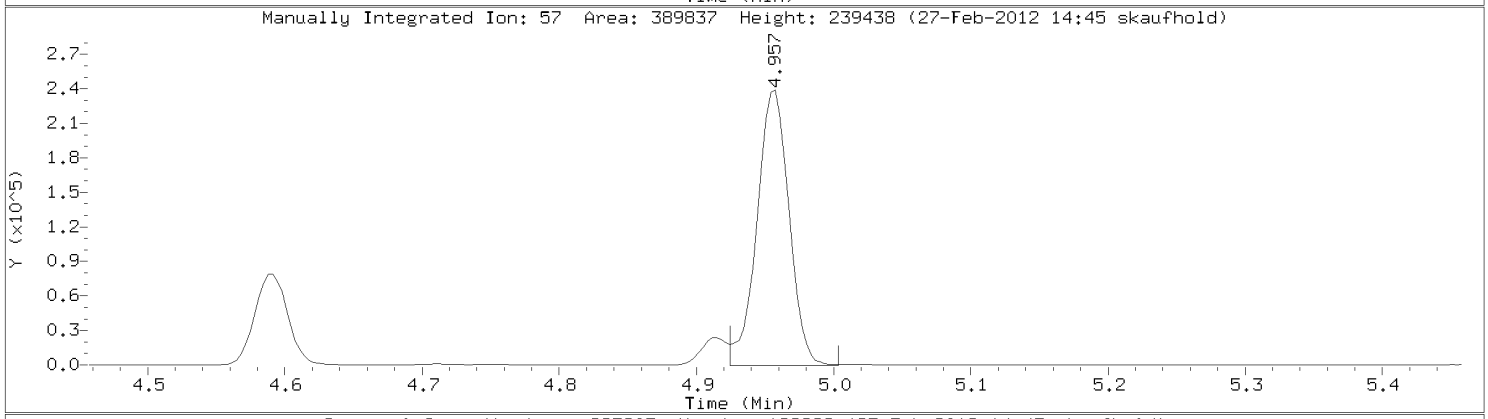
Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

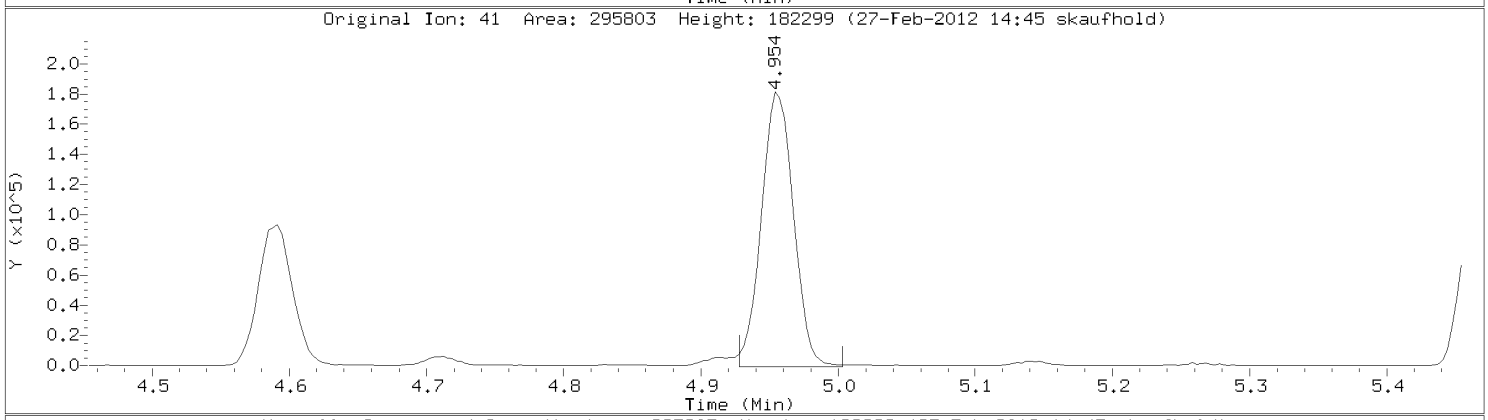


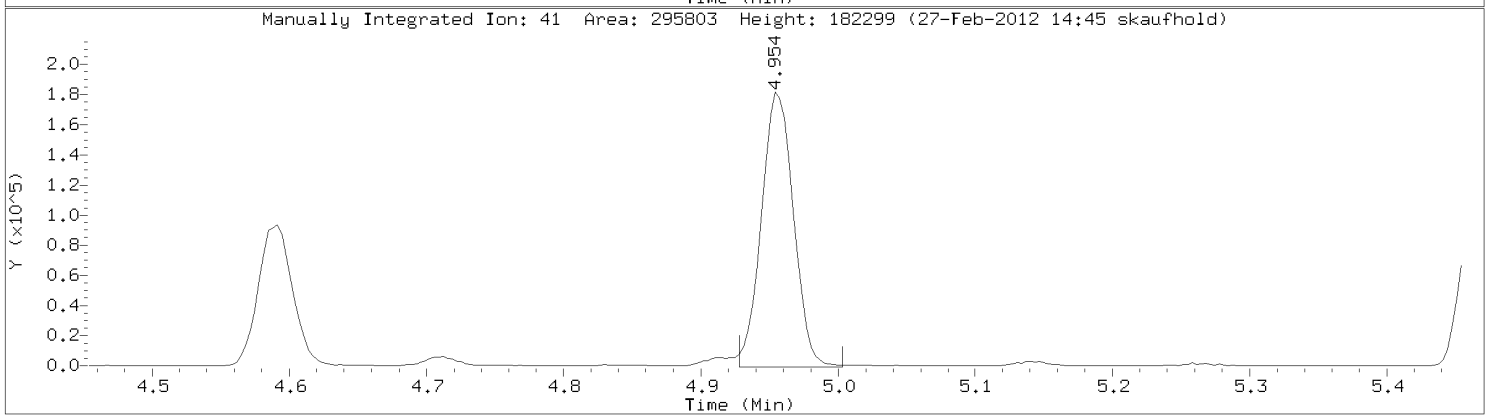
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Injection Date: 27-FEB-2012 14:16
Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: n-Hexane
CAS Number: 110-54-3

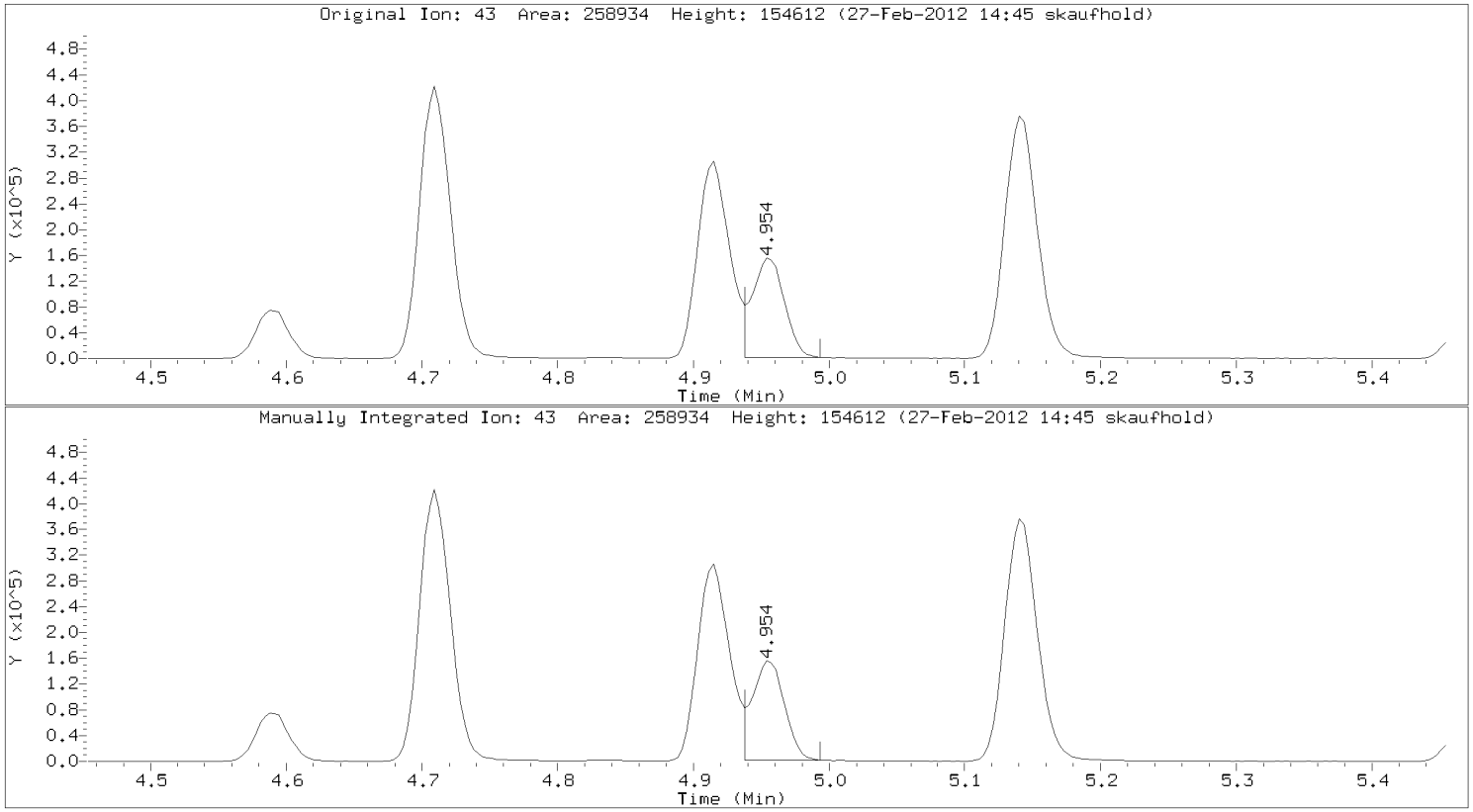






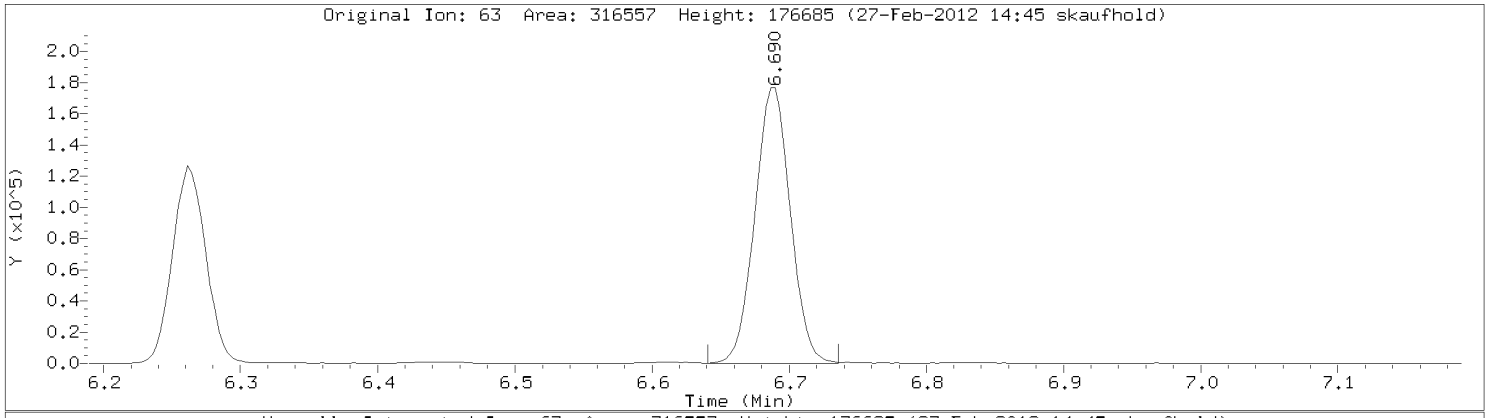


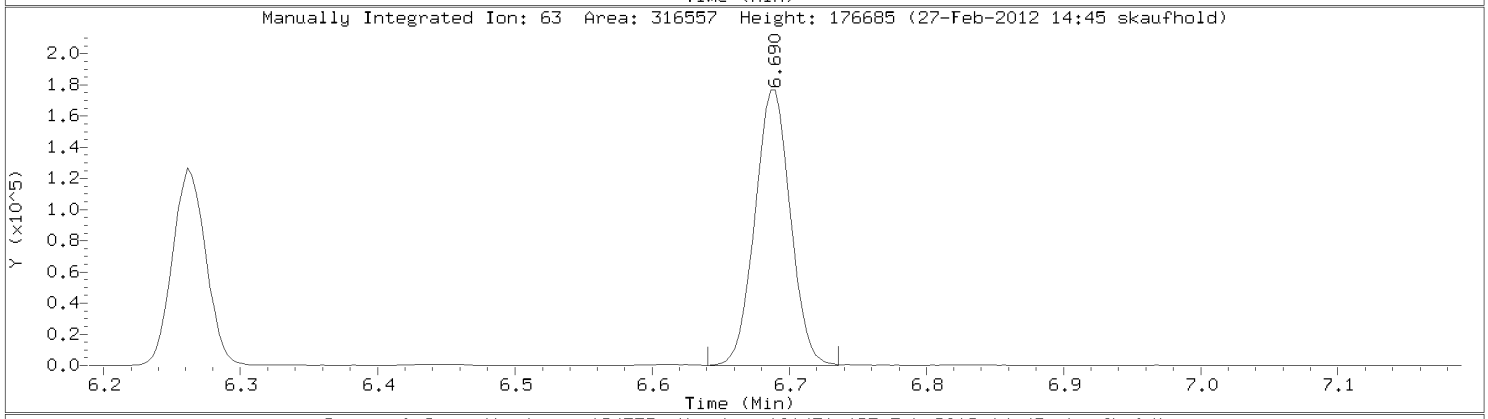
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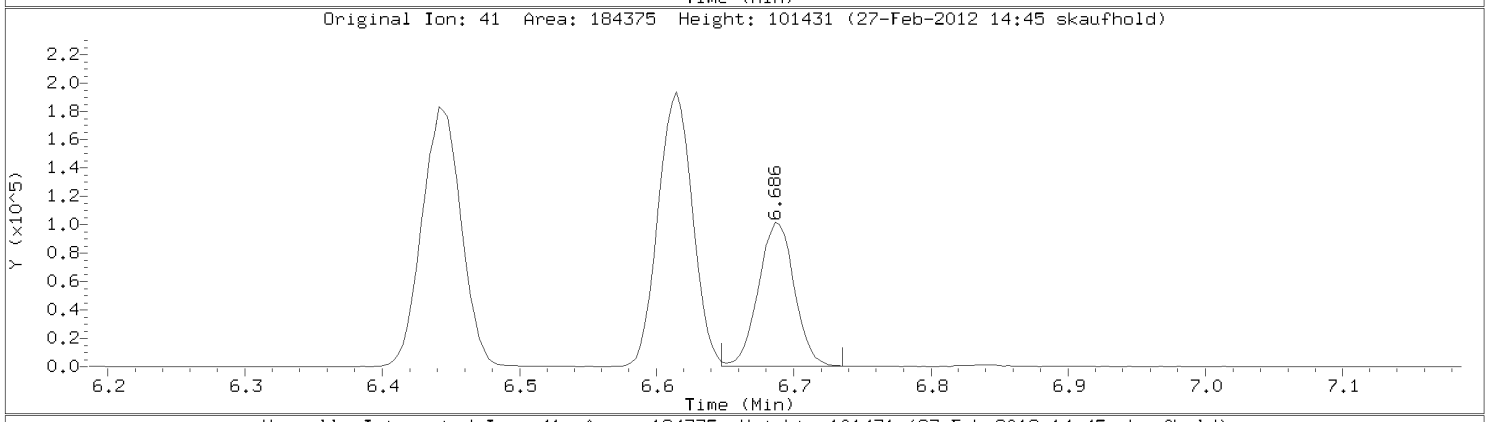


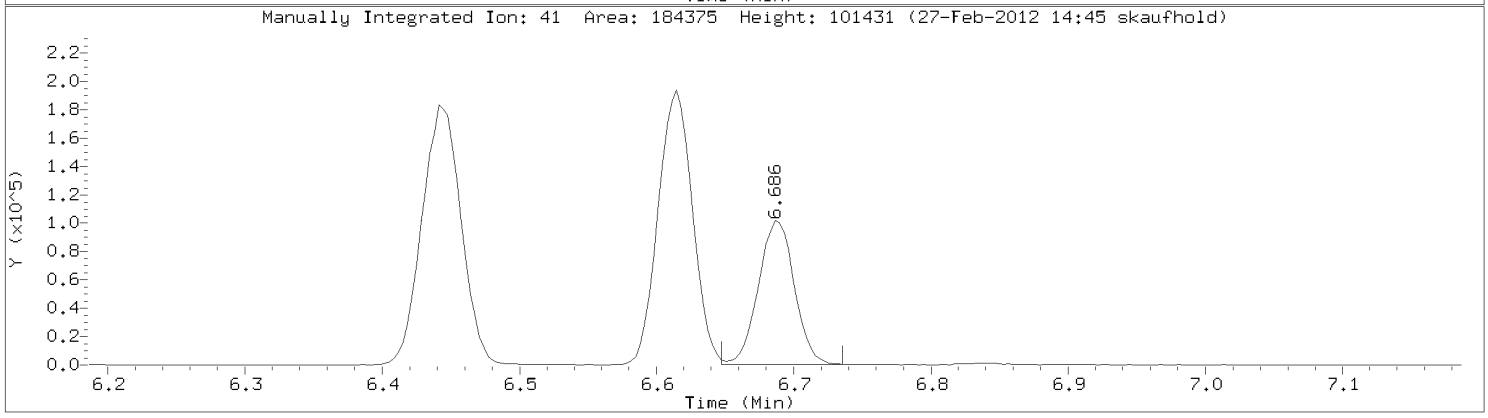
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Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

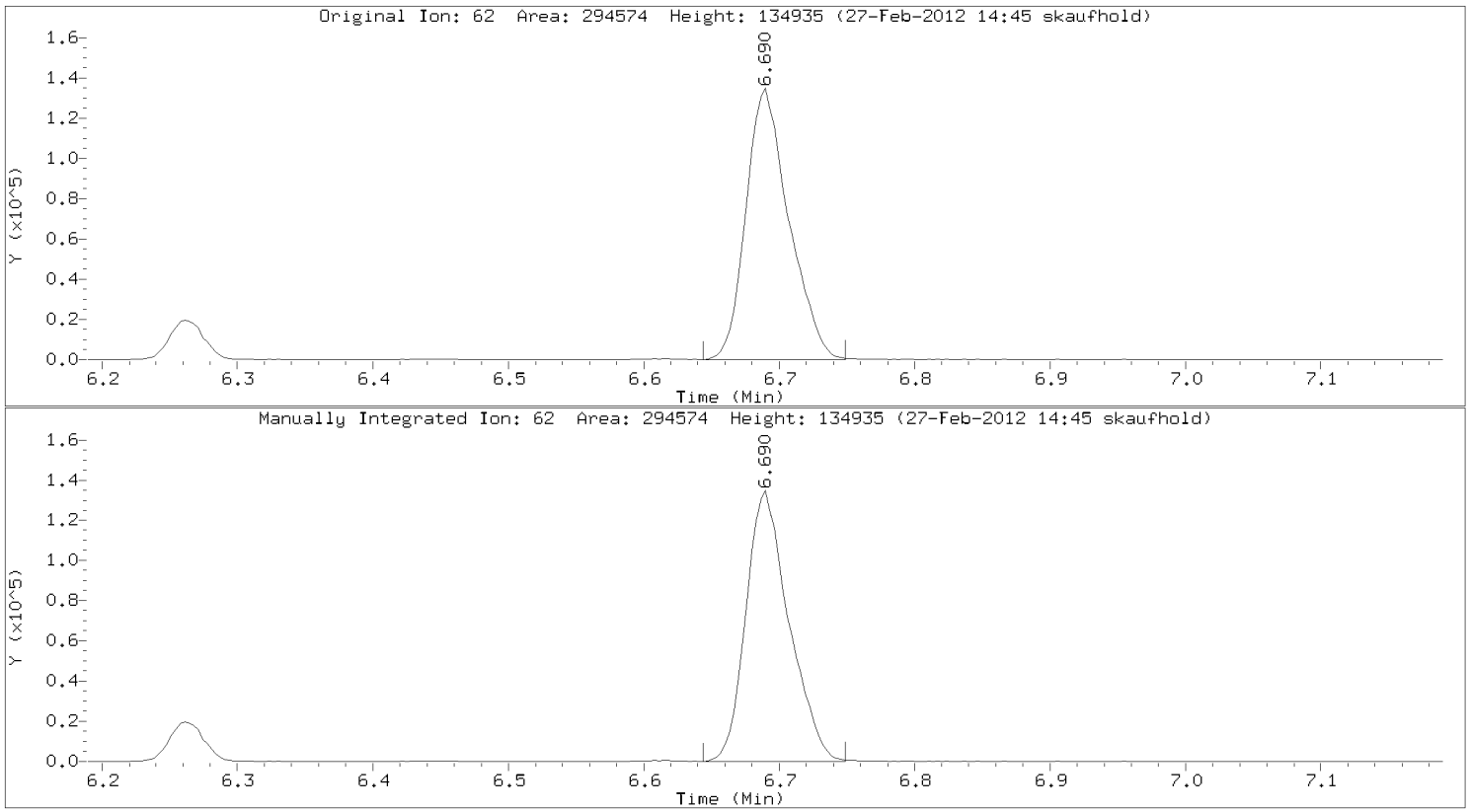






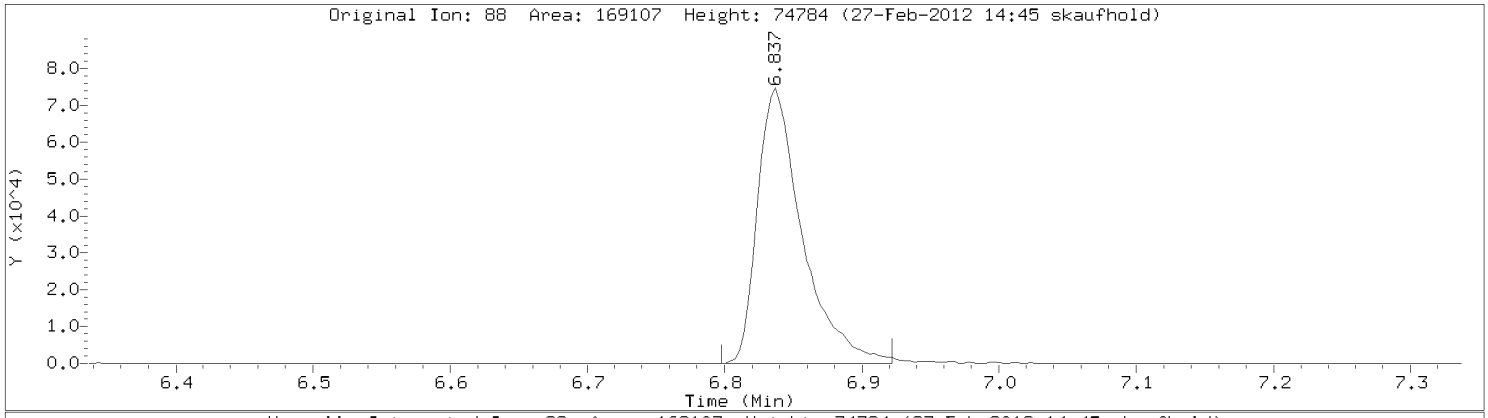


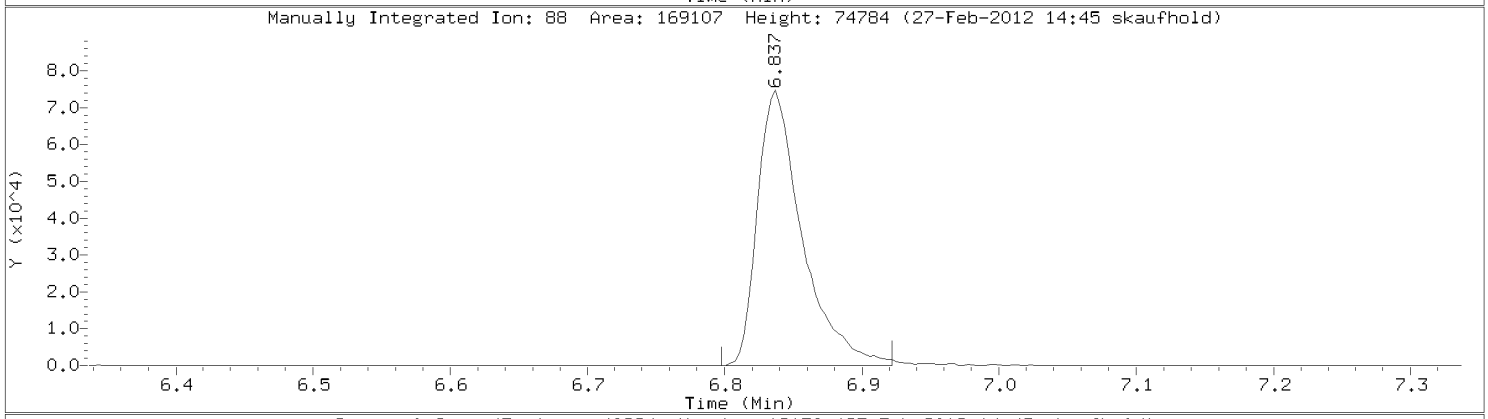
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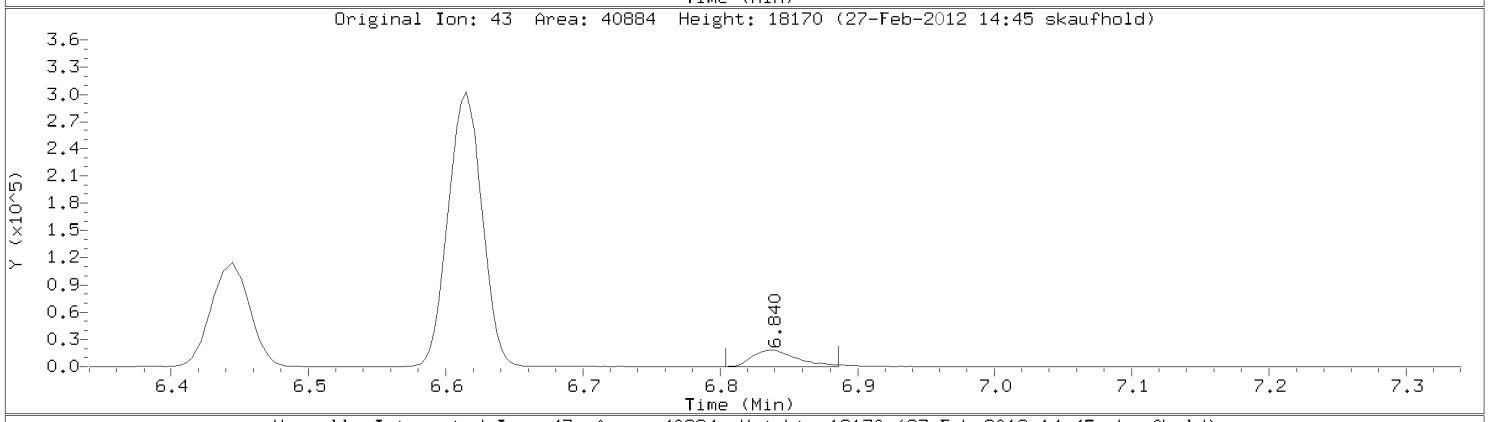


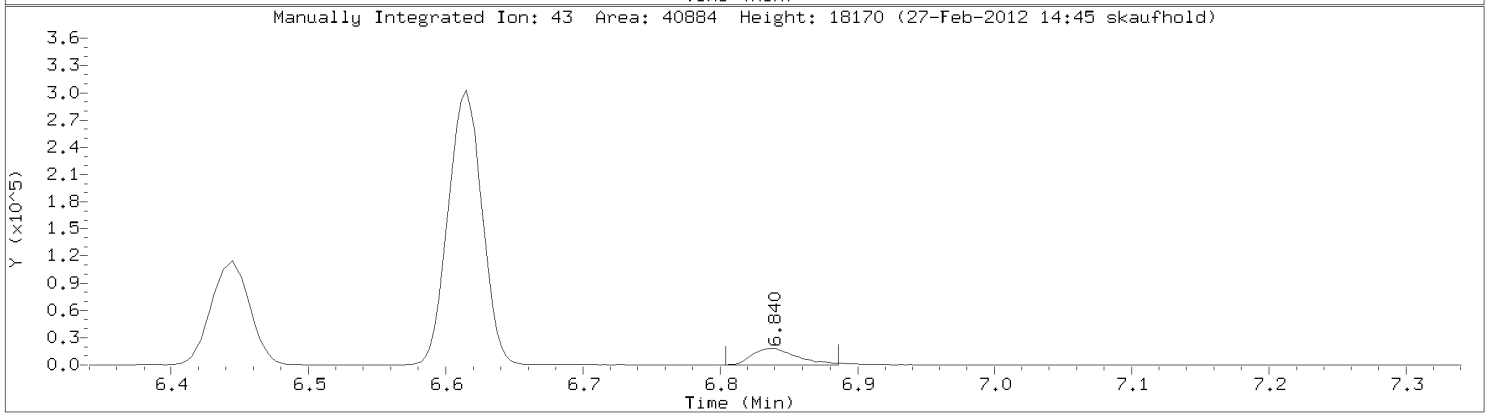
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Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: 1,4-Dioxane
CAS Number: 123-91-1



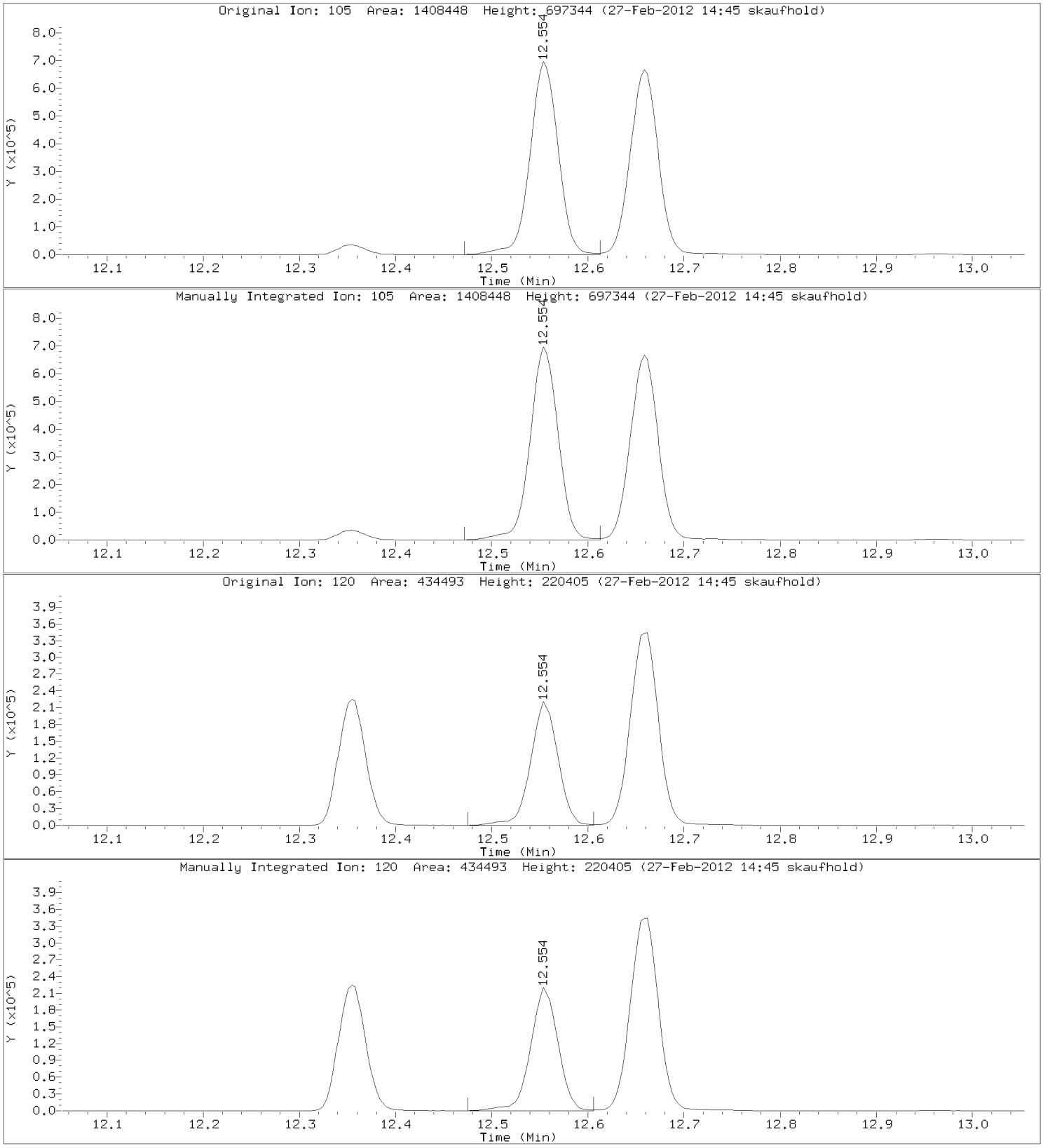




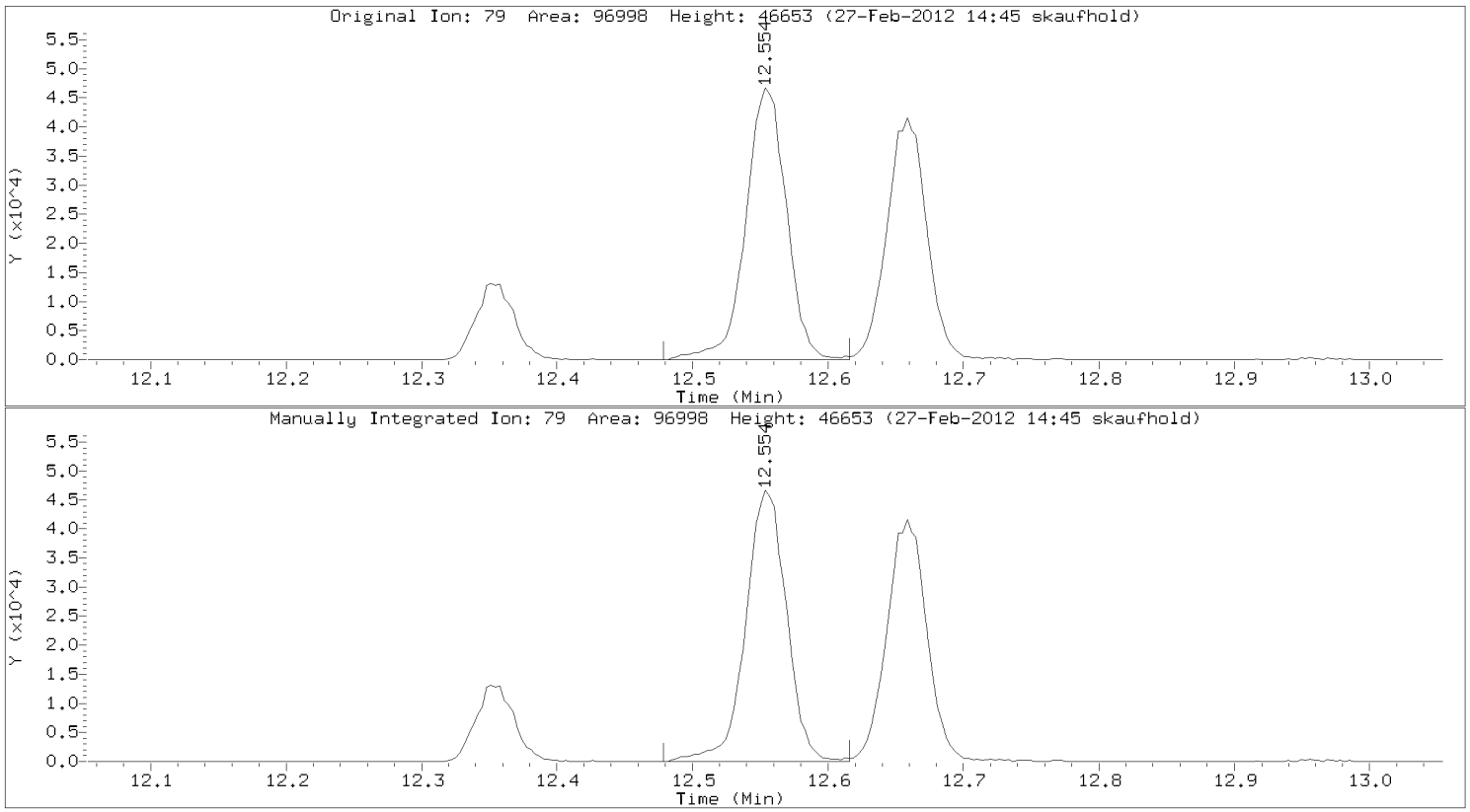


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Injection Date: 27-FEB-2012 14:16
Instrument: 10airD.i
Lab Sample ID: ICAL 5

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05809.D
Injection Date: 27-FEB-2012 14:16
Instrument: 10airD.i
Lab Sample ID: ICAL 5



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Report Date: 27-Feb-2012 15:21

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Lab Smp Id: ICAL 6
Inj Date : 27-FEB-2012 14:45
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 15:17 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 14:45 Cal File: 05810.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Propylene	41	3.054	3.054	(0.487)	357491	20.0000	19.9
2	Dichlorodifluoromethane	85	3.084	3.084	(0.492)	1686439	20.0000	19.9
3	Dichlorotetrafluoroethane	85	3.185	3.185	(0.508)	1489122	20.0000	19.0
4	Chloromethane	50	3.185	3.185	(0.508)	578860	20.0000	17.9
5	Vinyl chloride	62	3.277	3.277	(0.523)	531644	20.0000	20.5
6	1,3-Butadiene	54	3.322	3.322	(0.530)	358786	20.0000	19.8
7	Bromomethane	94	3.483	3.483	(0.556)	485274	20.0000	19.9
8	Chloroethane	64	3.541	3.541	(0.565)	214160	20.0000	20.3(M)
9	Ethanol	31	3.577	3.577	(0.571)	277944	20.0000	20.1(M)
10	Vinyl Bromide	106	3.682	3.682	(0.588)	672444	20.0000	21.3
11	Acrolein	56	3.783	3.783	(0.604)	184625	20.0000	21.4
12	Trichlorofluoromethane	101	3.796	3.796	(0.606)	1765988	20.0000	18.9
13	Acetone	43	3.829	3.829	(0.611)	879052	20.0000	12.7
14	Isopropyl Alcohol	45	3.862	3.862	(0.616)	553768	20.0000	17.6
15	1,1-Dichloroethene	61	4.091	4.091	(0.653)	997901	20.0000	19.8
16	Acrylonitrile	53	4.097	4.097	(0.654)	336747	20.0000	19.7
17	Tert Butyl Alcohol	59	4.117	4.117	(0.657)	155469	20.0000	3.12(M)
18	Freon 113	101	4.146	4.146	(0.662)	1311411	20.0000	19.4
19	Methylene chloride	49	4.208	4.208	(0.671)	628874	20.0000	19.7
20	Allyl Chloride	76	4.225	4.225	(0.674)	251047	20.0000	19.8
21	Carbon Disulfide	76	4.349	4.349	(0.694)	1183131	20.0000	14.4
22	trans-1,2-dichloroethene	96	4.551	4.551	(0.726)	681453	20.0000	20.8
23	Methyl Tert Butyl Ether	73	4.591	4.591	(0.732)	1326575	20.0000	20.0(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Report Date: 27-Feb-2012 15:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Vinyl Acetate	43	4.712	4.712	(0.752)	1316531	20.0000	19.8
	25 1,1-Dichloroethane	63	4.718	4.718	(0.753)	1049829	20.0000	19.6
$	26 Hexane-d14(S)	66	4.836	4.836	(0.772)	324306	10.0000	10.2
	27 Methyl Ethyl Ketone	72	4.914	4.914	(0.784)	263036	20.0000	20.0(M)
	28 n-Hexane	57	4.957	4.957	(0.791)	767897	20.0000	19.2(M)
	29 cis-1,2-Dichloroethene	96	5.123	5.123	(0.817)	672979	20.0000	22.4
	30 Ethyl Acetate	43	5.143	5.143	(0.821)	1248529	20.0000	19.9
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.267	5.267	(0.840)	1474748	20.0000	20.3
	33 Tetrahydrofuran	42	5.463	5.463	(0.872)	606727	20.0000	20.0
	34 1,1,1-Trichloroethane	97	5.761	5.761	(0.919)	1497962	20.0000	19.9
	35 1,2-Dichloroethane	62	5.780	5.780	(0.922)	999266	20.0000	19.8
	36 Benzene	78	6.055	6.055	(0.966)	1818303	20.0000	21.8
	37 Carbon tetrachloride	117	6.075	6.075	(0.969)	1703112	20.0000	19.7
	38 Cyclohexane	56	6.081	6.081	(0.970)	732153	20.0000	19.5
*	39 1,4-Difluorobenzene	114	6.267	6.267	(1.000)	1334379	10.0000	
	40 2,2,4-Trimethylpentane	57	6.444	6.444	(1.028)	2501872	20.0000	19.9
	41 Heptane	43	6.617	6.617	(1.056)	1002847	20.0000	19.8
	42 1,2-Dichloropropane	63	6.692	6.692	(1.068)	630490	20.0000	21.3(M)
	43 Trichloroethene	130	6.715	6.715	(1.071)	1170315	20.0000	20.0
	44 1,4-Dioxane	88	6.836	6.836	(1.091)	347494	20.0000	20.2(M)
	45 Bromodichloromethane	83	6.839	6.839	(1.091)	1579737	20.0000	19.9
	46 Methyl Isobutyl Ketone	43	7.421	7.421	(1.184)	1246378	20.0000	20.0
	47 cis-1,3-Dichloropropene	75	7.477	7.477	(1.193)	1154659	20.0000	20.0
	48 trans-1,3-Dichloropropene	75	7.974	7.974	(1.272)	1023845	20.0000	20.1
$	49 Toluene-d8 (S)	98	8.052	8.052	(1.285)	1116298	10.0000	10.0
	50 Toluene	91	8.144	8.144	(1.299)	2406454	20.0000	20.1
	51 1,1,2-Trichloroethane	97	8.153	8.153	(1.301)	837155	20.0000	21.4
	52 Methyl Butyl Ketone	43	8.457	8.457	(0.853)	1138278	20.0000	19.8
	53 Dibromochloromethane	129	8.774	8.774	(0.885)	1896973	20.0000	20.0
	54 1,2-Dibromoethane	107	9.046	9.046	(0.912)	1477621	20.0000	20.0
	55 Tetrachloroethene	166	9.131	9.131	(0.921)	1519991	20.0000	20.0
*	56 Chlorobenzene - d5	117	9.915	9.915	(1.000)	756174	10.0000	
	57 Chlorobenzene	112	9.964	9.964	(1.005)	2183624	20.0000	24.5
	58 Ethyl Benzene	91	10.268	10.268	(1.036)	3032659	20.0000	20.0
	59 m&p-Xylene	91	10.442	10.442	(1.053)	4717002	40.0000	39.7(A)
	60 2-Heptanone	43	10.716	10.716	(1.710)	416451	20.0000	5.09(A)
	61 Bromoform	173	10.896	10.896	(1.099)	1983934	20.0000	20.0
	62 Styrene	104	10.938	10.938	(1.103)	2278860	20.0000	20.1
	63 o-Xylene	91	11.017	11.017	(1.111)	2174053	20.0000	19.9
	64 1,1,2,2-Tetrachloroethane	83	11.334	11.334	(1.143)	1759122	20.0000	19.9
	65 Isopropylbenzene	105	11.693	11.693	(1.179)	3538545	20.0000	20.0
	66 N-Propylbenzene	91	12.360	12.360	(1.247)	3732404	20.0000	19.9
	67 4-Ethyltoluene	105	12.560	12.560	(1.267)	2989996	20.0000	20.0(M)
	68 1,3,5-Trimethylbenzene	105	12.667	12.667	(1.278)	2865662	20.0000	20.0
	69 1,2,4-Trimethylbenzene	105	13.266	13.266	(1.338)	2706349	20.0000	20.0
	70 1,3-Dichlorobenzene	146	13.622	13.622	(1.374)	2383585	20.0000	20.1
	71 Sec- Butylbenzene	105	13.645	13.645	(1.376)	4057013	20.0000	19.9
$	72 1,4-dichlorobenzene-d4 (S)	150	13.707	13.707	(1.382)	370395	10.0000	10.8
	73 Benzyl Chloride	91	13.730	13.730	(1.385)	2267616	20.0000	20.1
	74 1,4-Dichlorobenzene	146	13.756	13.756	(1.387)	2348249	20.0000	20.1
	75 1,2-Dichlorobenzene	146	14.285	14.285	(1.441)	2109906	20.0000	20.1
	76 N-Butylbenzene	91	14.557	14.557	(1.468)	2787028	20.0000	20.0
	77 1,2,4-Trichlorobenzene	180	16.900	16.900	(1.704)	592244	20.0000	17.8

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Report Date: 27-Feb-2012 15:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78 Naphthalene	128	17.080	17.080	(1.723)	1123150	20.0000	17.6
79 Hexachlorobutadiene	225	17.449	17.449	(1.760)	449005	20.0000	18.3

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Report Date: 27-Feb-2012 15:21

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05810.D
Lab Smp Id: ICAL 6
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

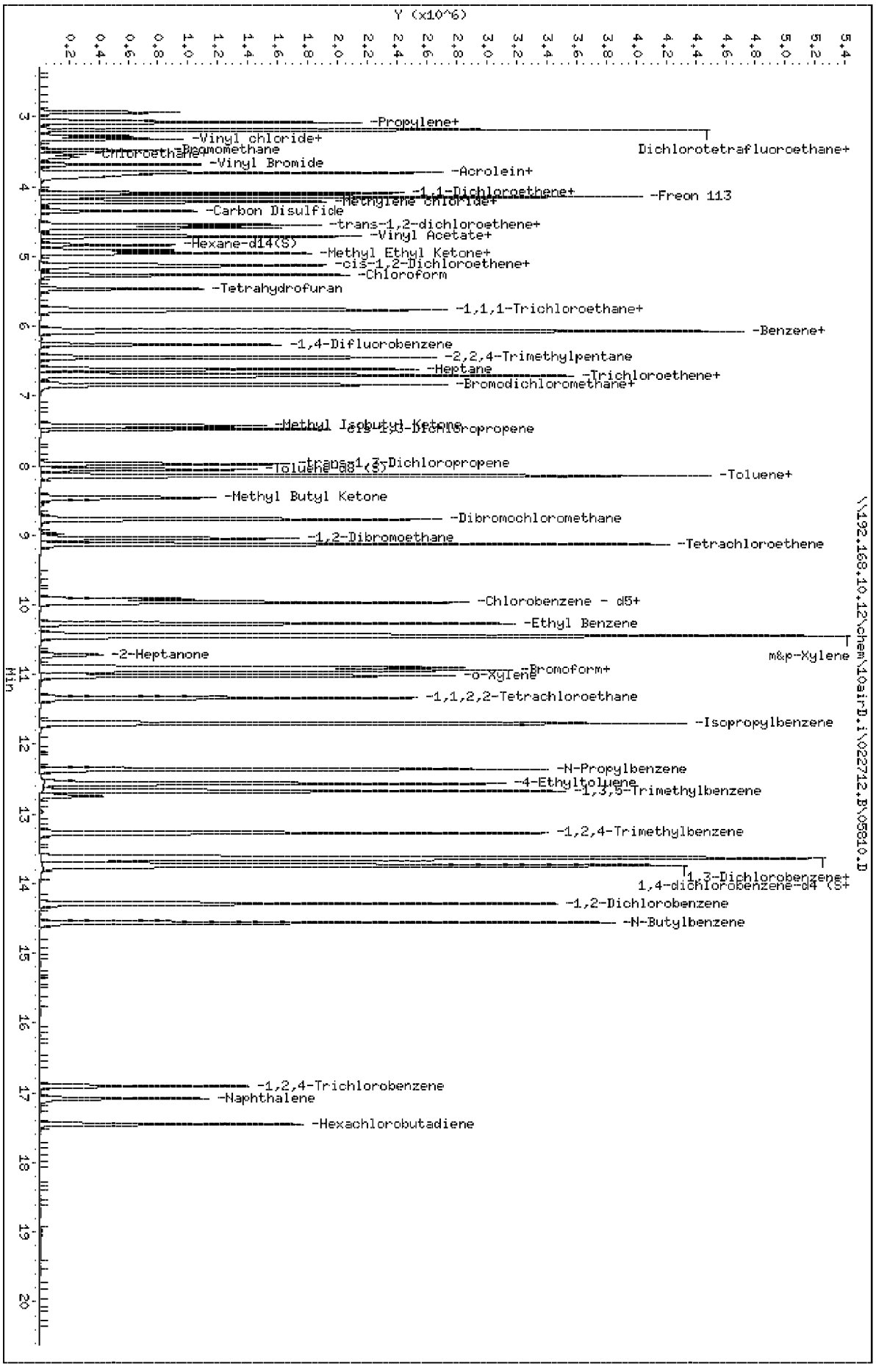
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1334379	2.02
56 Chlorobenzene - d	717767	430660	1004874	756174	5.35

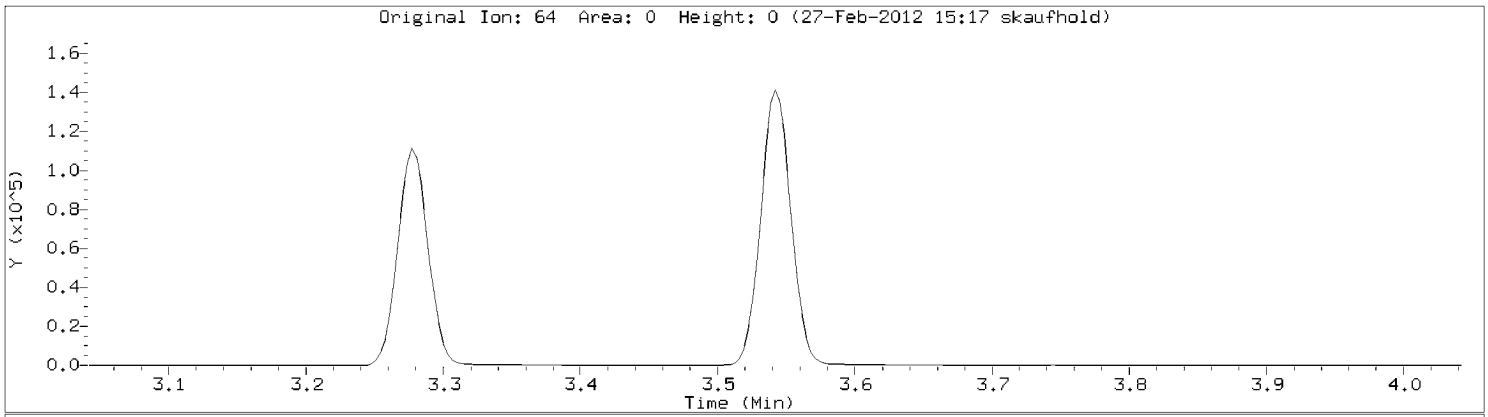
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.27	0.10
56 Chlorobenzene - d	9.91	9.58	10.24	9.92	0.06

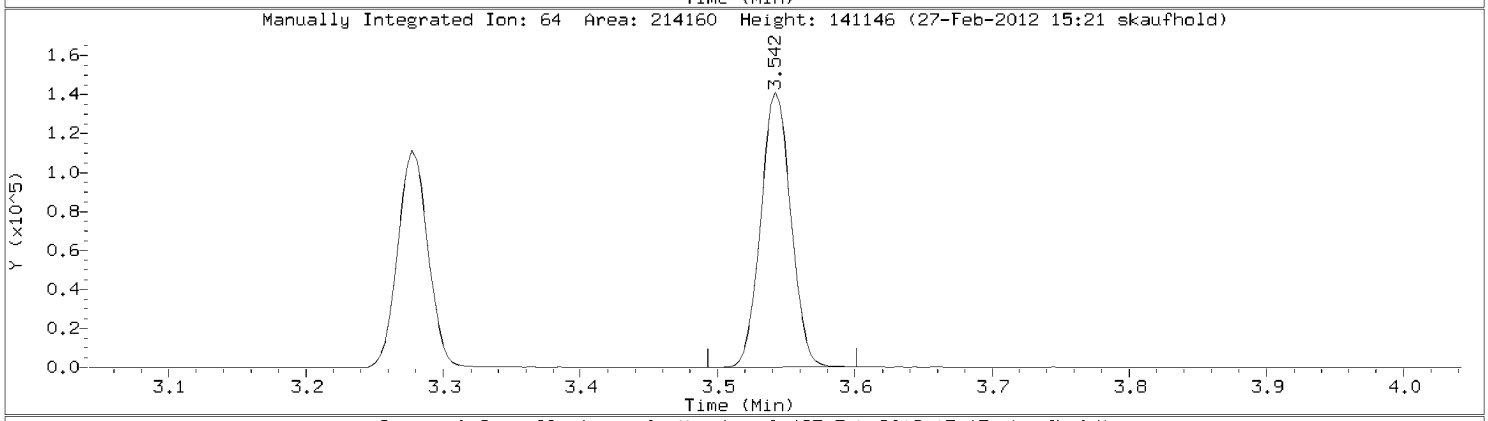
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

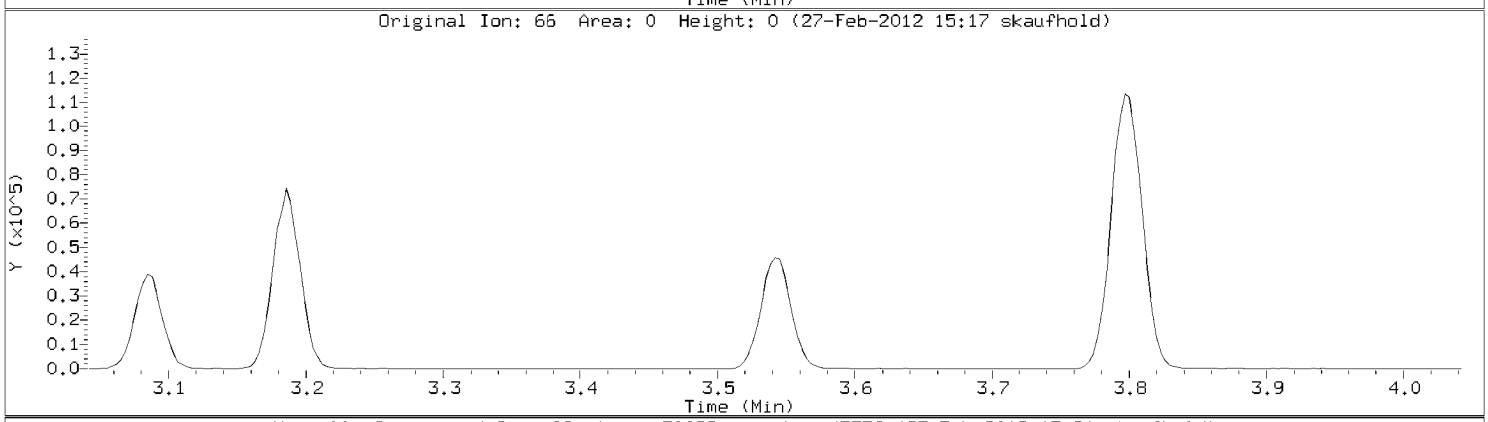

Y (x10^6)
Data File: \\192.168.10.12\chem\10airD.i\022712.B\05810.D
Date : 27-FEB-2012 14:45
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32
\\192.168.10.12\chem\10airD.i\022712.B\05810.D
Propylene+
Vinyl chloride+
Bromomethane
Chloroethane
Vinyl Bromide
Acrolein+
Dichlorotetrafluoroethane+
1,1-Dichloroethene+
Freon 113
Methylene chloride+
Carbon Disulfide
trans-1,2-dichloroethene+
Vinyl Acetate+
Hexane-d14(S)
Methyl Ethyl Ketone+
cis-1,2-Dichloroethene+
Chloroform
Tetrahydrofuran
1,1,1-Trichloroethane+
Benzene+
1,4-Difluorobenzene
2,2,4-Trimethylpentane
Heptane
Trichloroethene+
Bromodichloromethane+
Methyl Isobutyl Ketone
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Toluene-d8 (S)
Toluene+
Methyl Butyl Ketone
Dibromochloromethane
1,2-Dibromoethane
Tetrachloroethene
Chlorobenzene - d5+
Ethyl Benzene
m&p-Xylene
2-Heptanone
Bromoform+
o-Xylene
1,1,2,2-Tetrachloroethane
Isopropylbenzene
N-Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene+
1,4-dichlorobenzene-d4 (S+
1,2-Dichlorobenzene
N-Butylbenzene
1,2,4-Trichlorobenzene
Naphthalene
Hexachlorobutadiene
Min

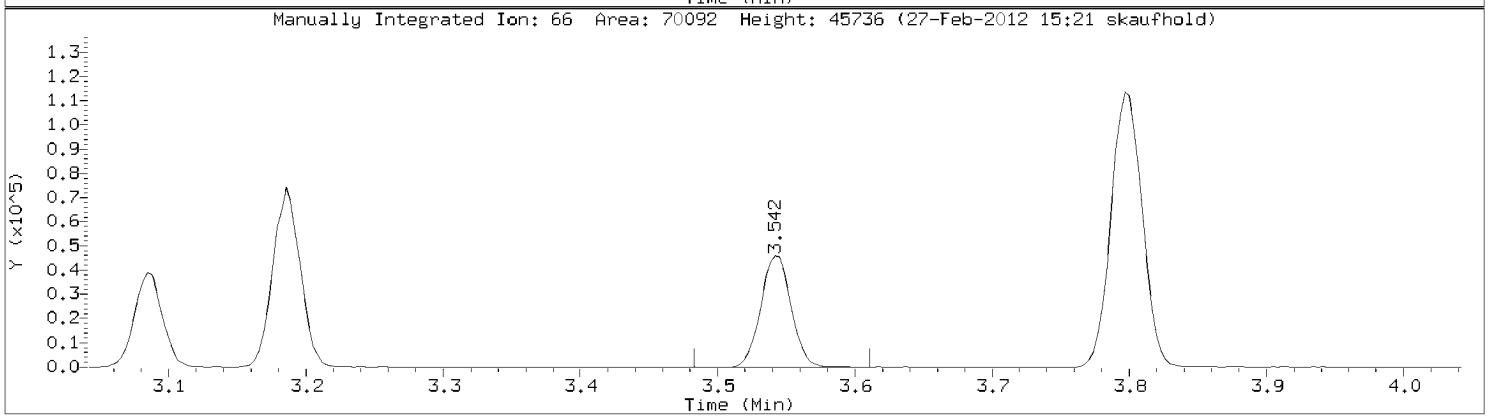
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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: Chloroethane
CAS Number: 75-00-3



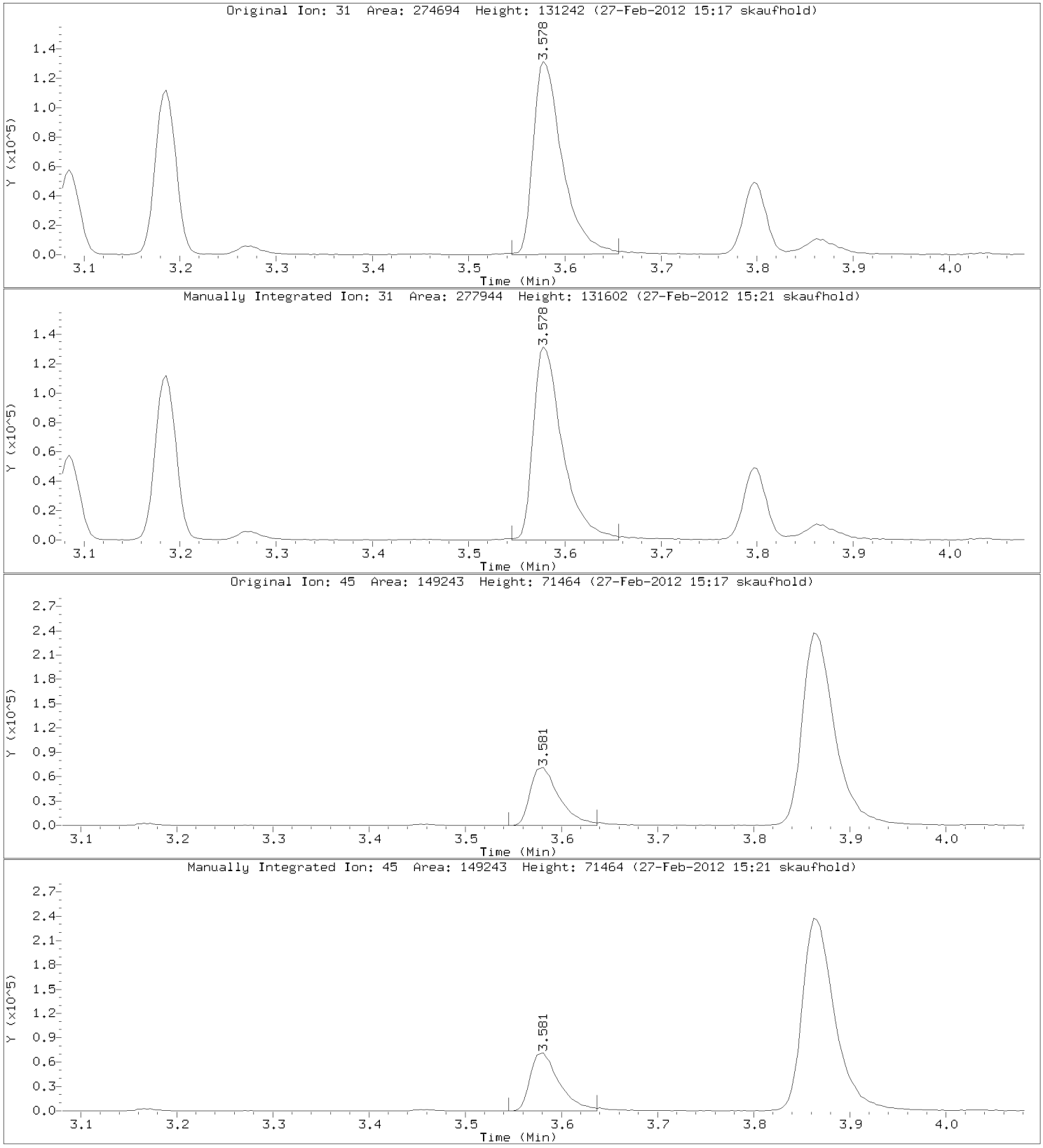






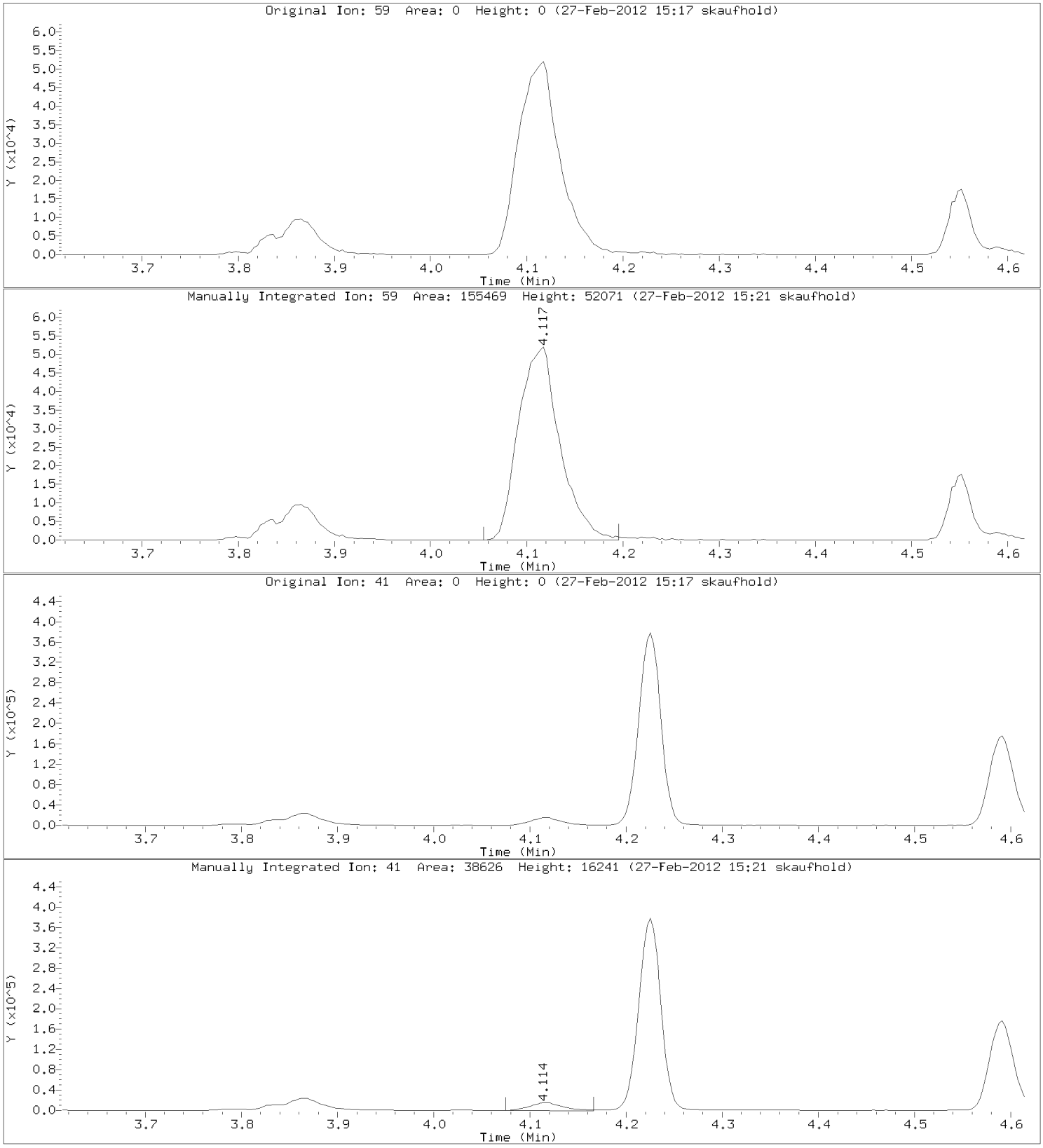
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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: Ethanol
CAS Number: 64-17-5



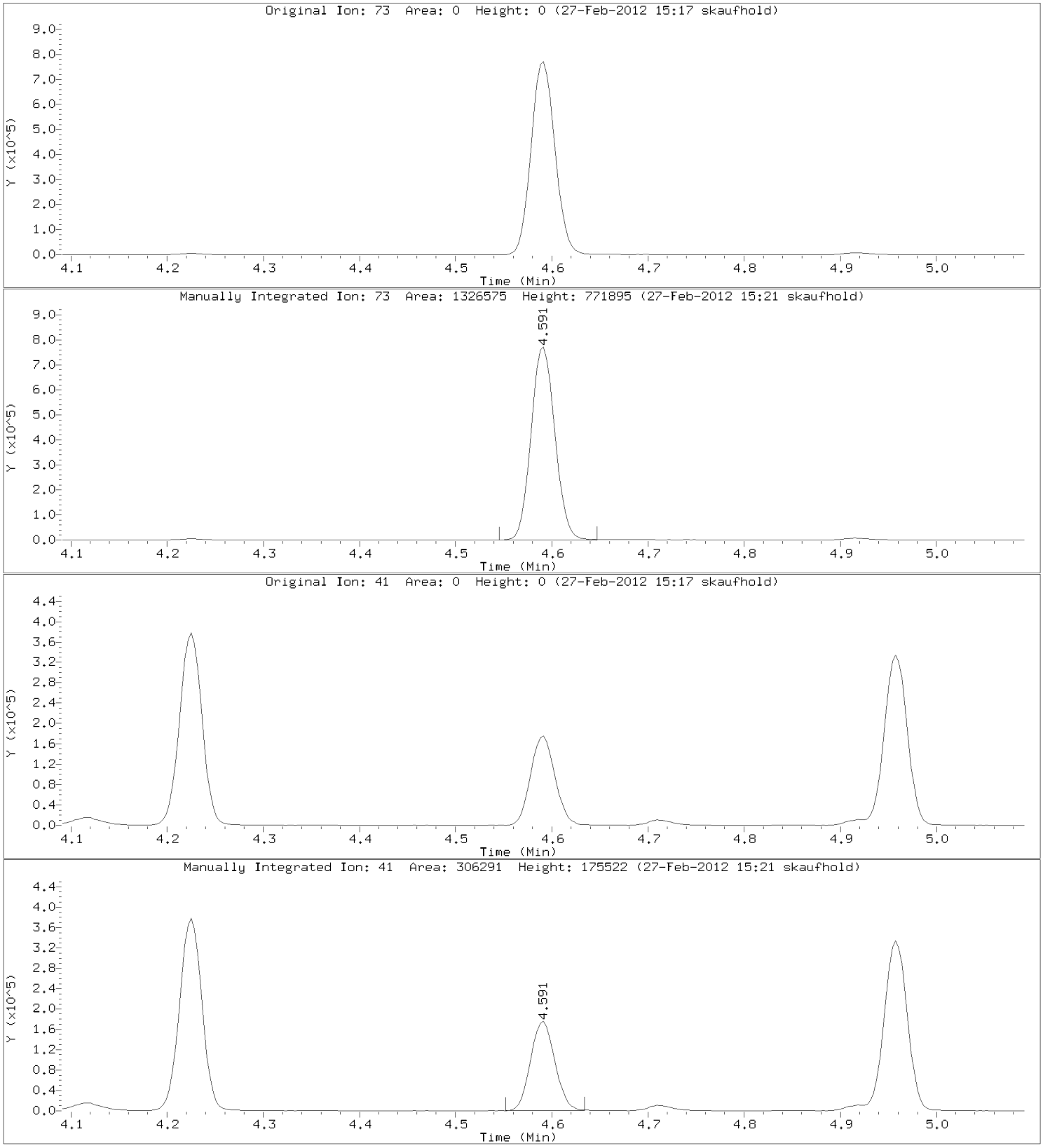
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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



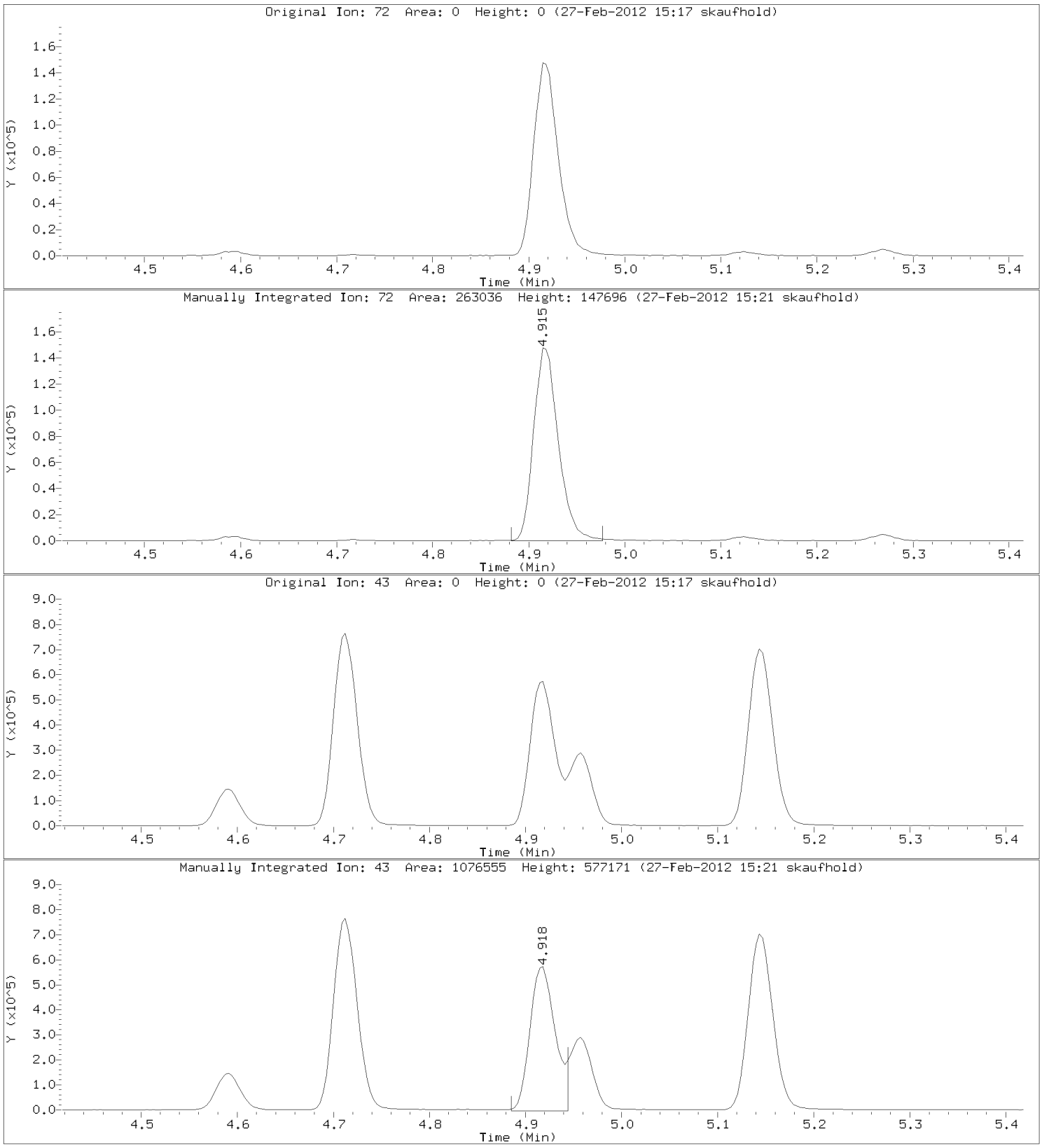
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Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



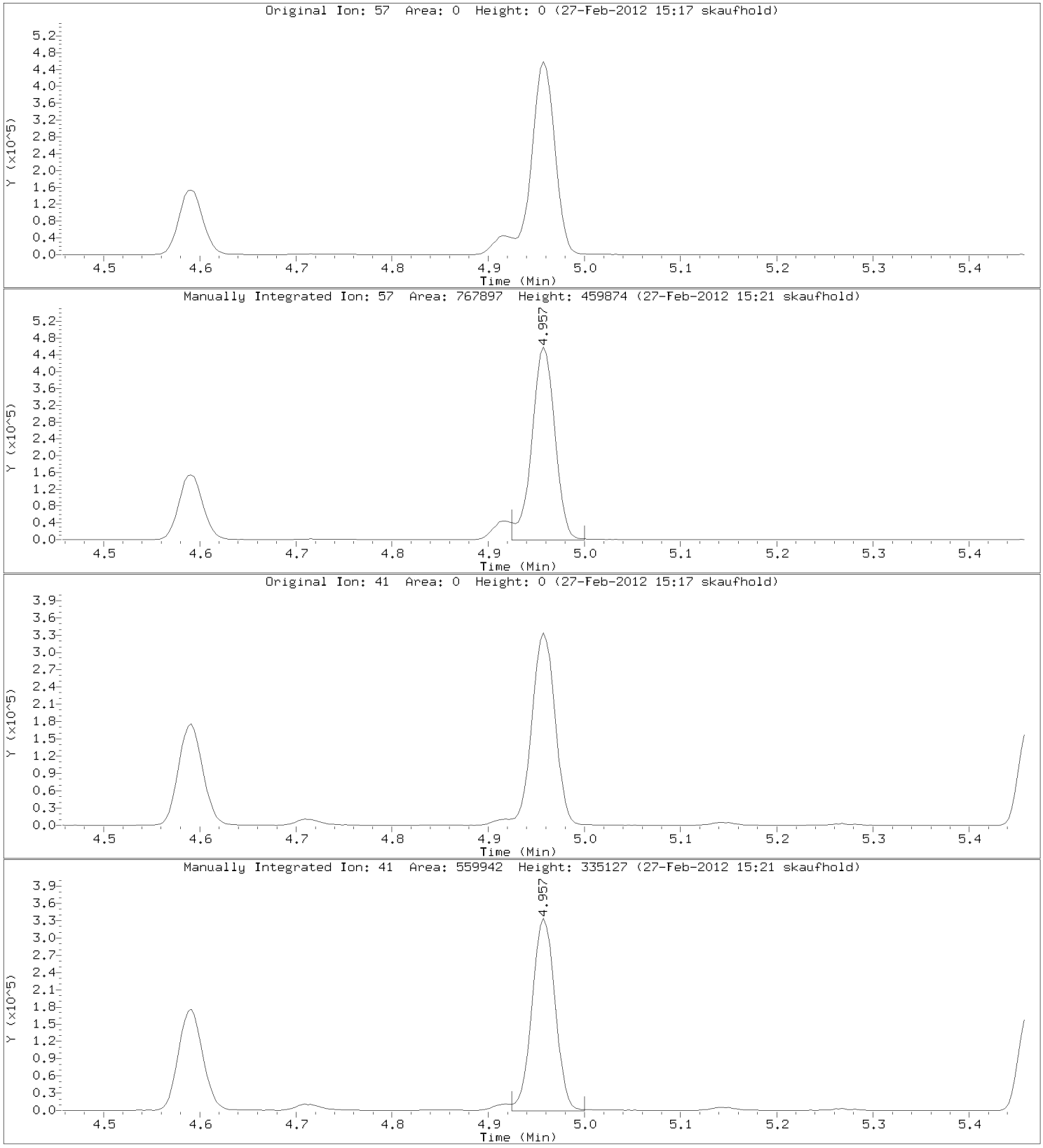
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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

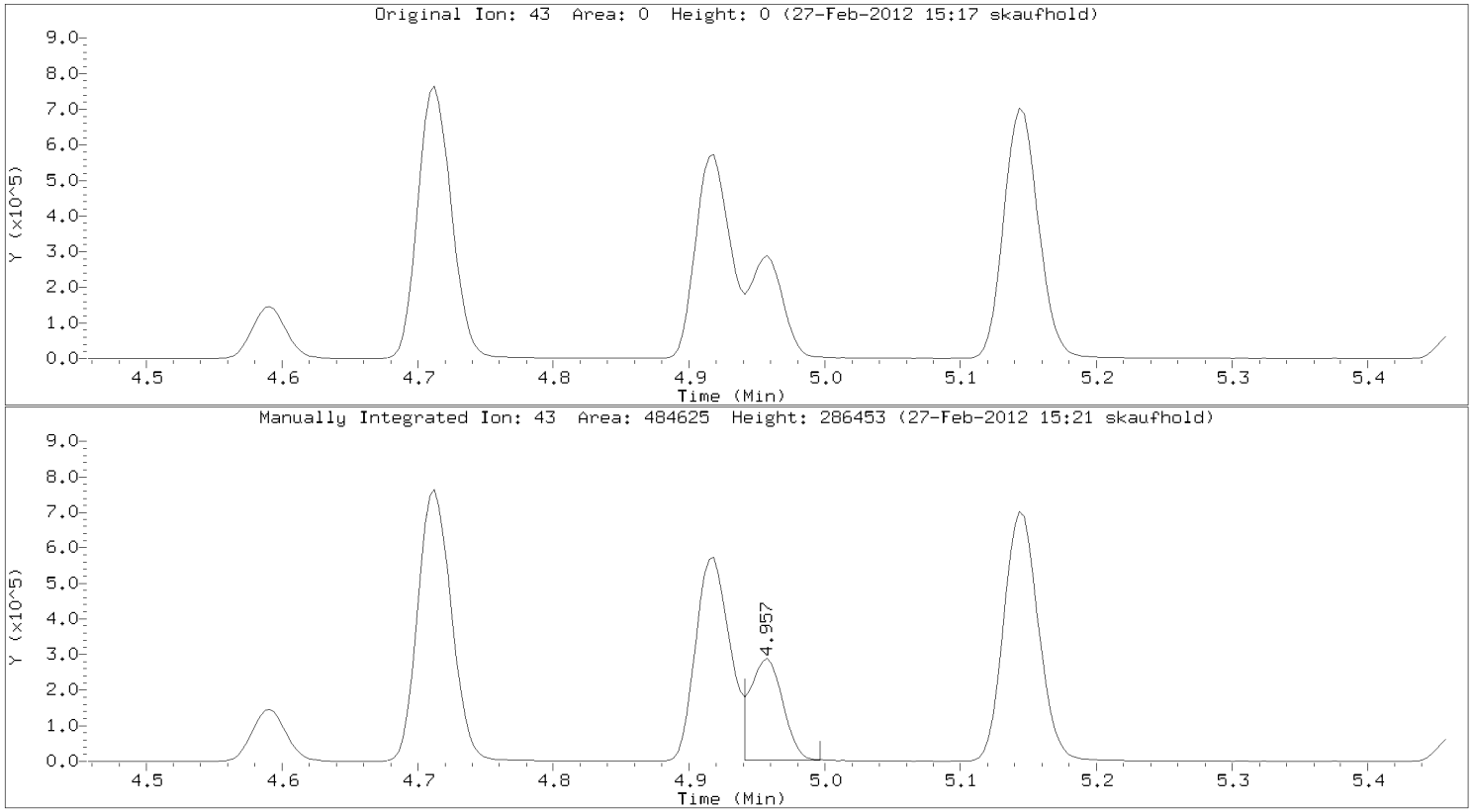


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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: n-Hexane
CAS Number: 110-54-3

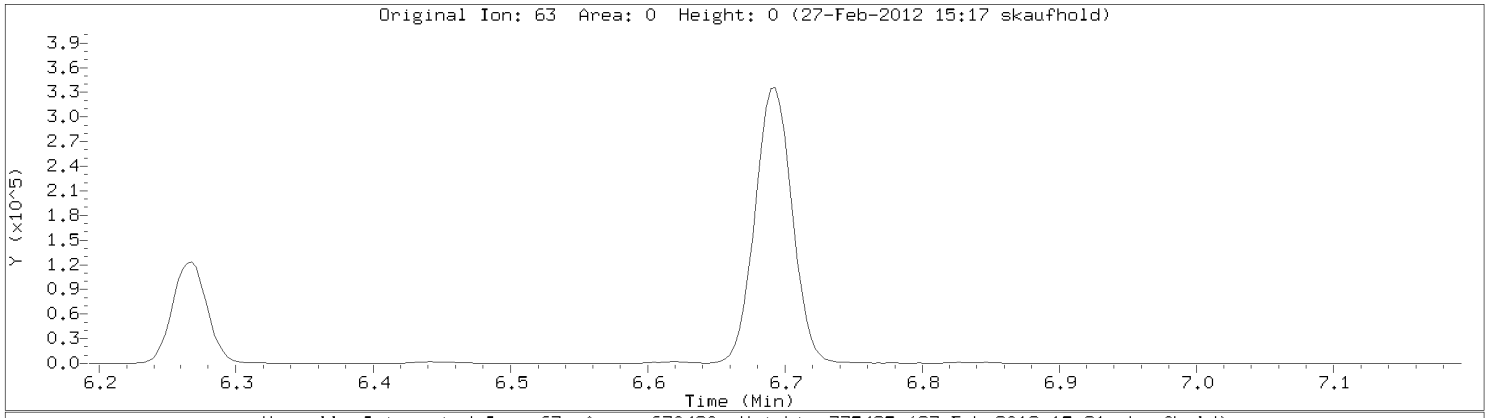


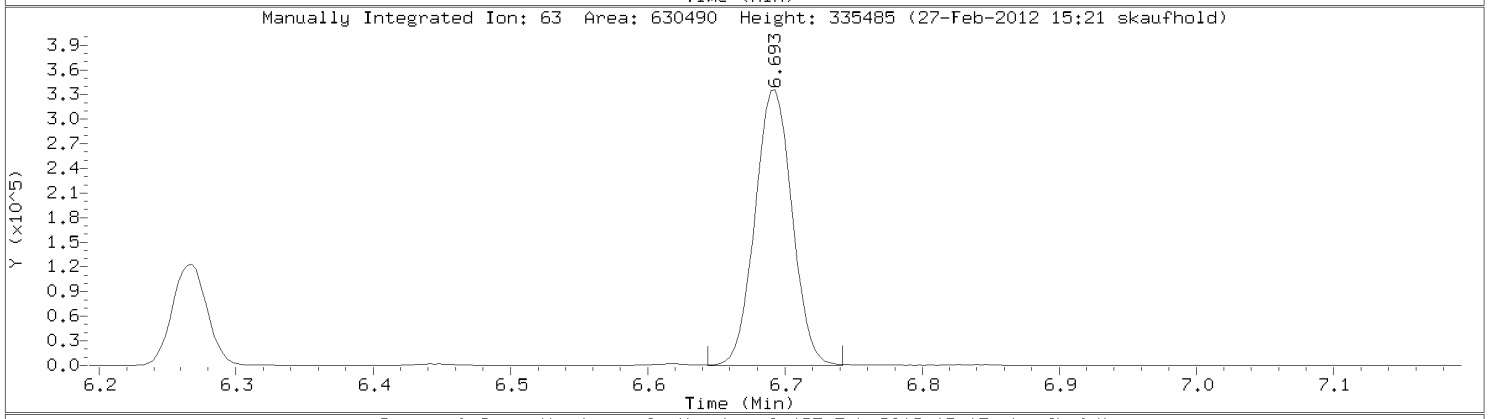
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Instrument: 10airD.i
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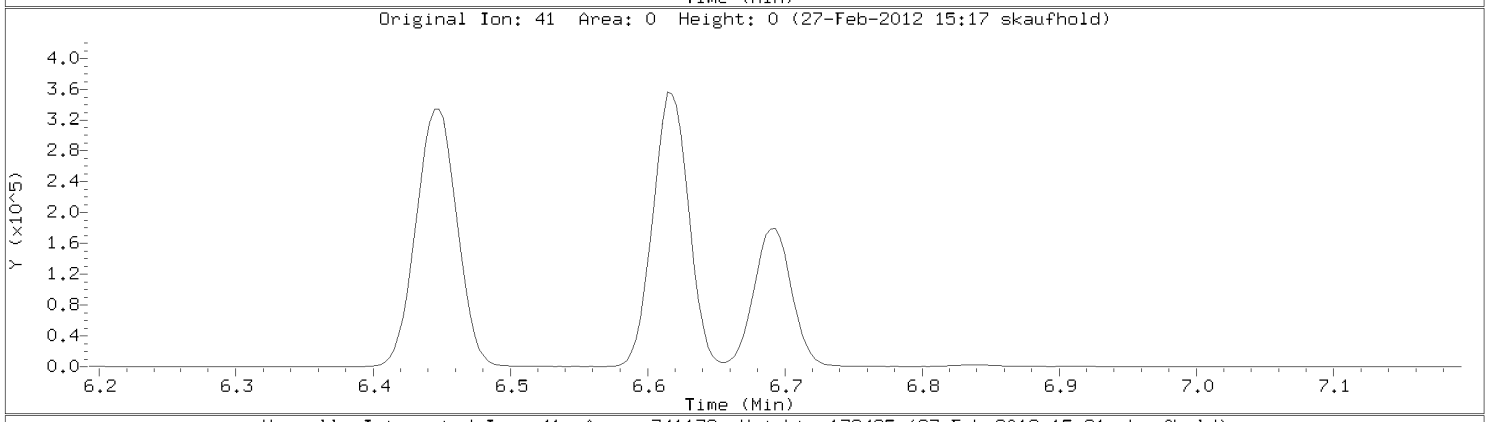


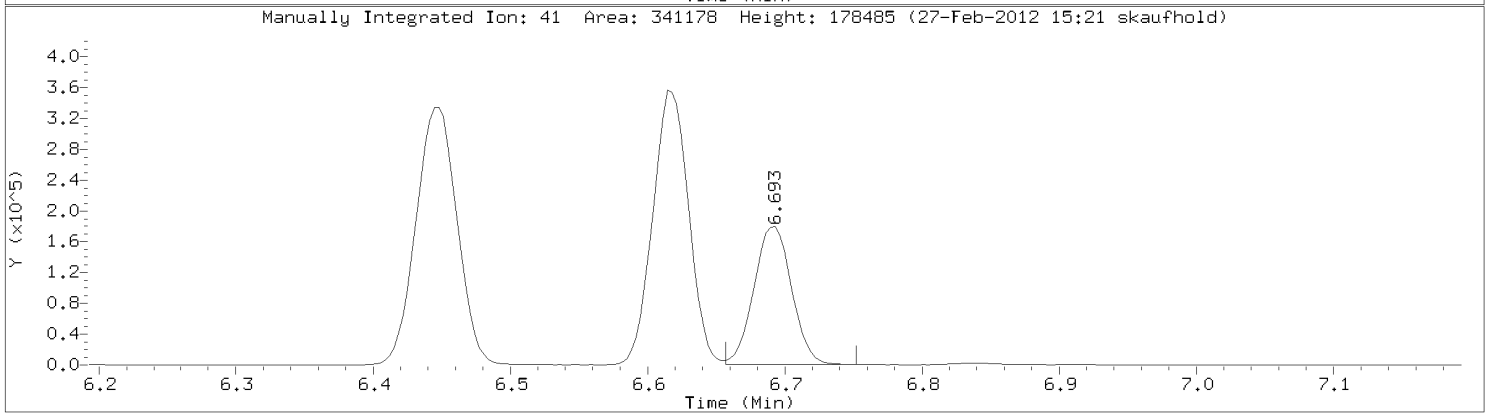
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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

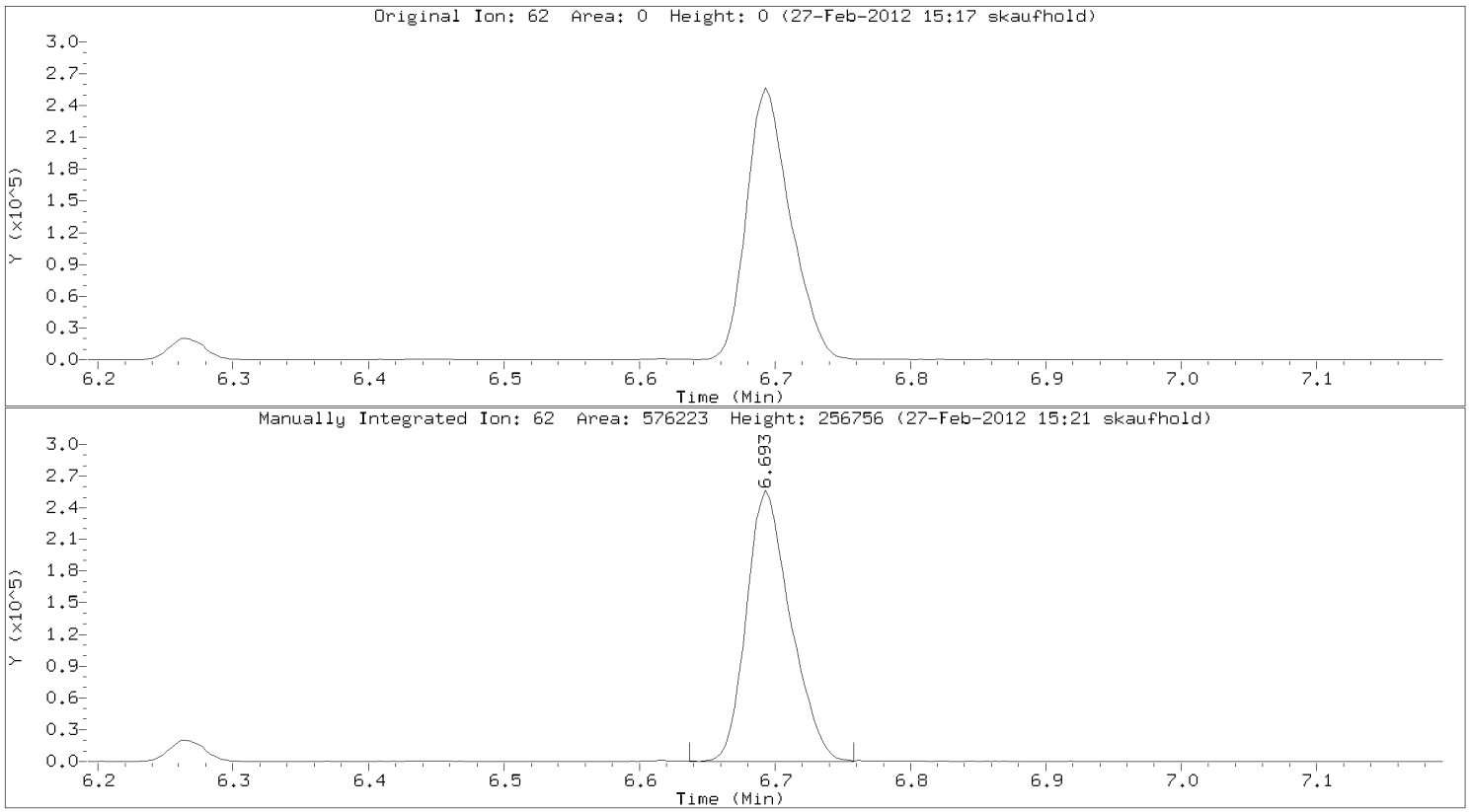






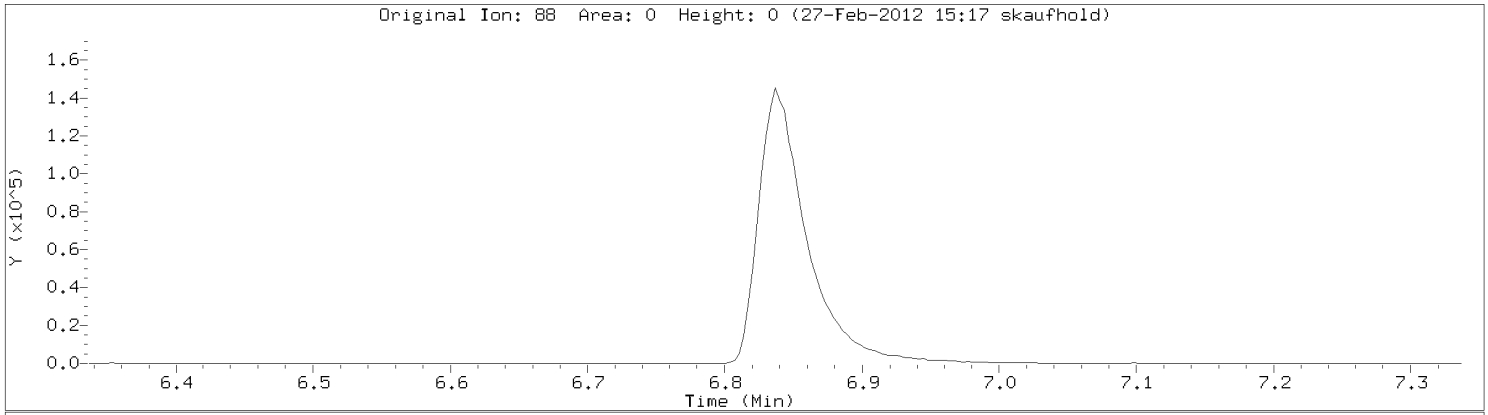


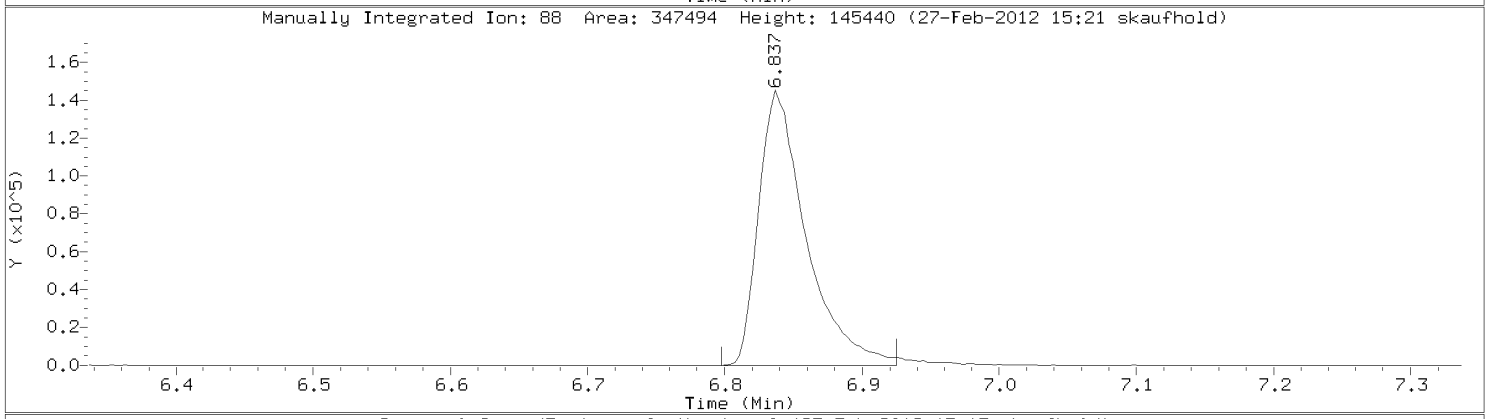
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Instrument: 10airD.i
Lab Sample ID: ICAL 6

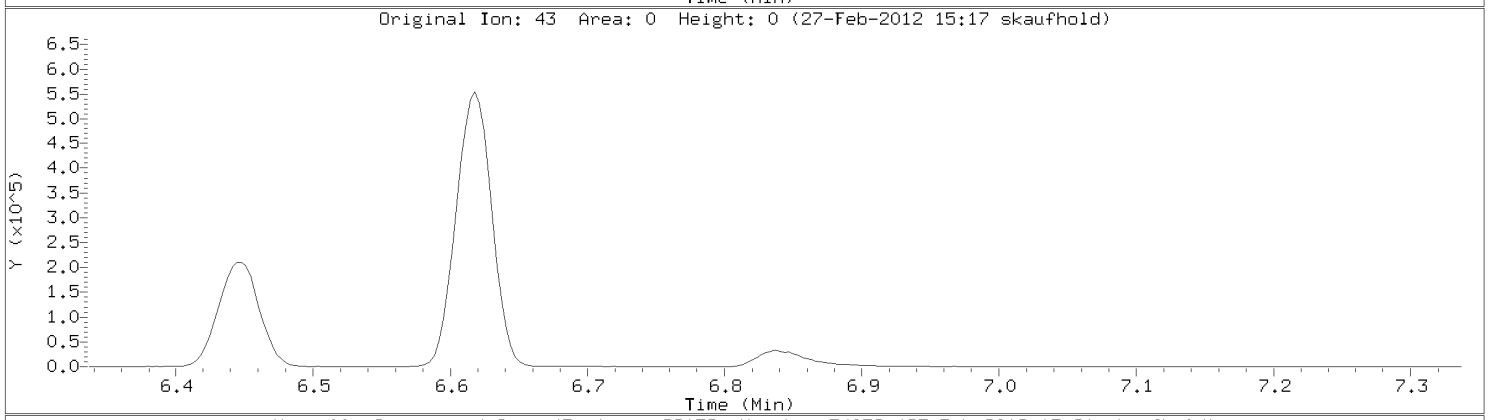


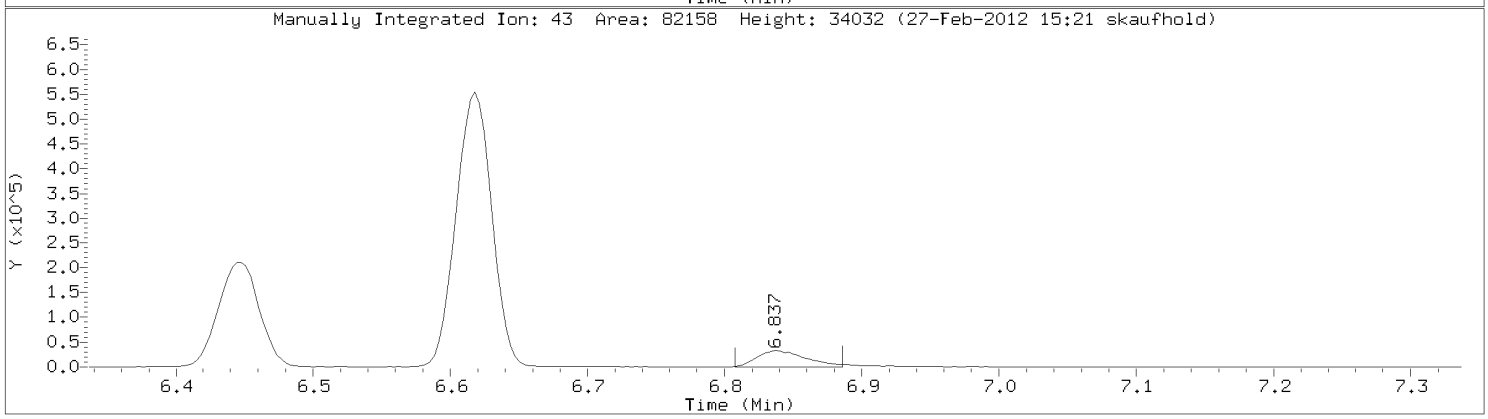
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Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: 1,4-Dioxane
CAS Number: 123-91-1



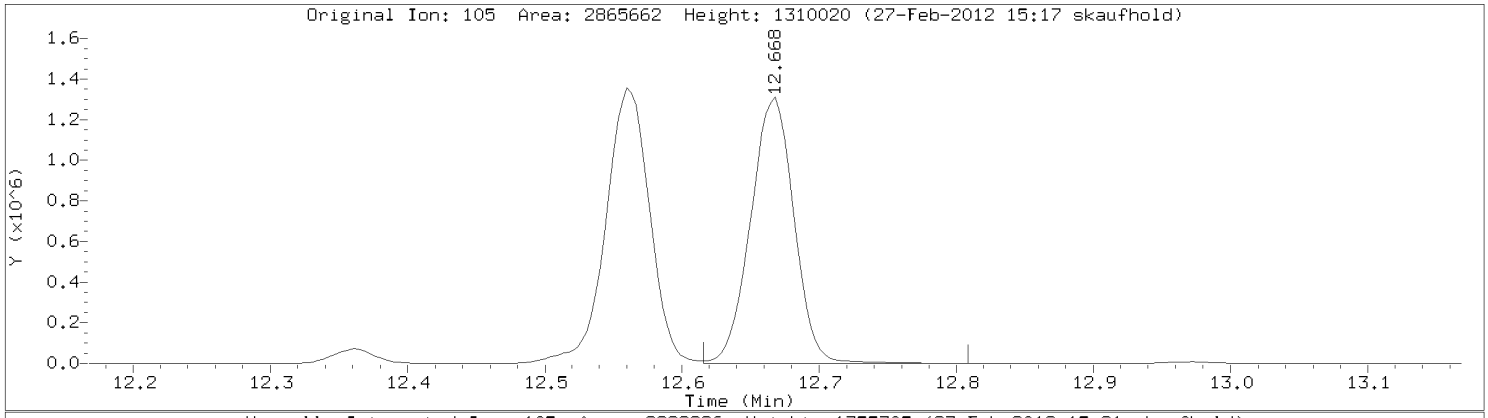


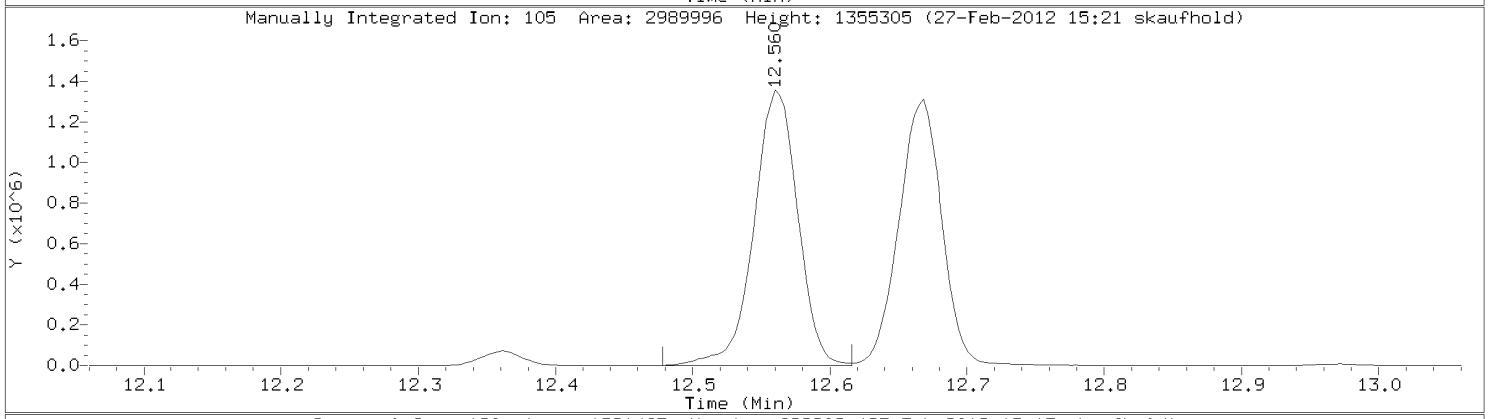


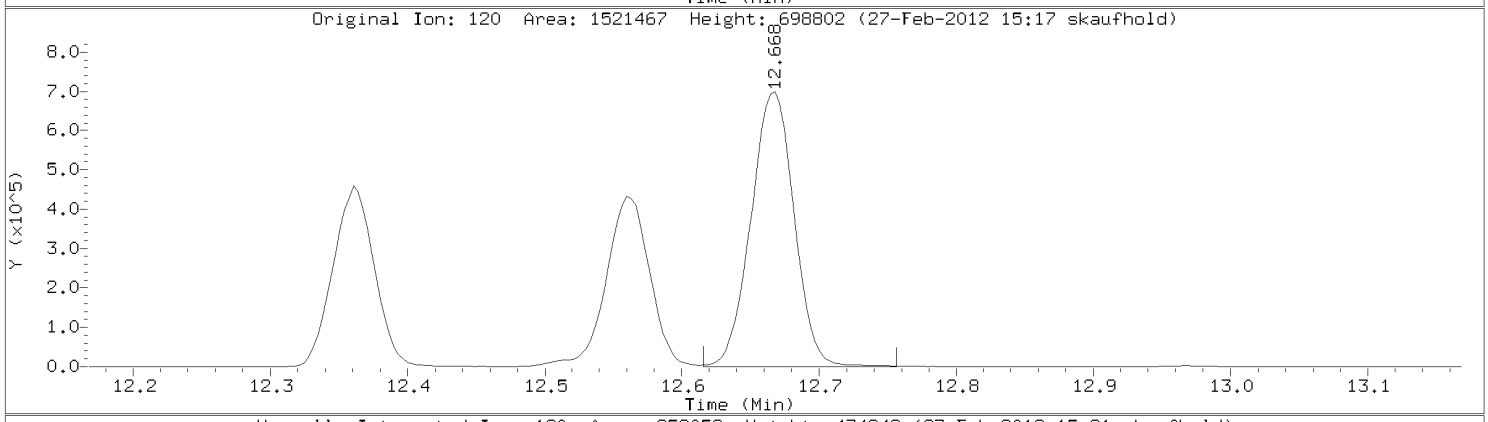


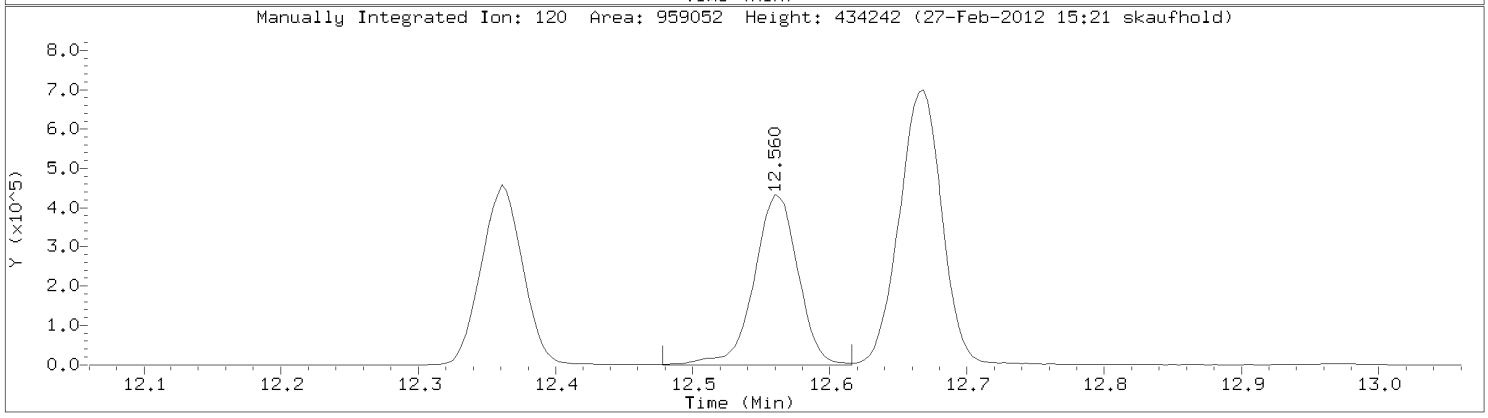
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05810.D
Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

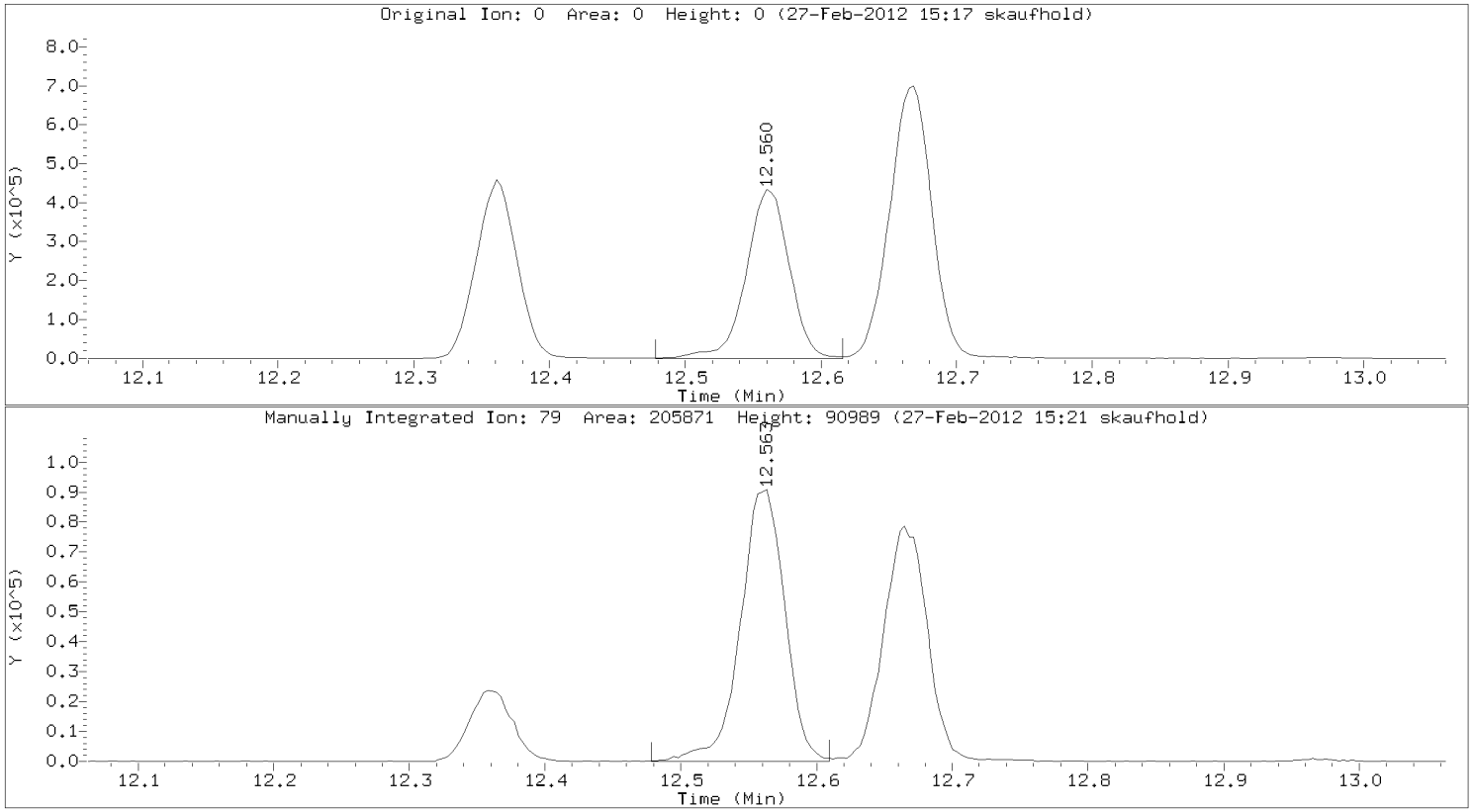








Data File: \\192.168.10.12\chem\10airD.i\022712.B/05810.D
Injection Date: 27-FEB-2012 14:45
Instrument: 10airD.i
Lab Sample ID: ICAL 6



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05811.D
Report Date: 27-Feb-2012 15:49

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05811.D
Lab Smp Id: ICAL 7
Inj Date : 27-FEB-2012 15:15
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 27-Feb-2012 15:46 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 15:15 Cal File: 05811.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Propylene	41	3.055	3.055	(0.487)	548066	30.0000	30.0
2 Dichlorodifluoromethane	85	3.084	3.084	(0.492)	2505873	30.0000	29.6
3 Dichlorotetrafluoroethane	85	3.185	3.185	(0.508)	2132015	30.0000	27.1
4 Chloromethane	50	3.185	3.185	(0.508)	807243	30.0000	25.2
5 Vinyl chloride	62	3.277	3.277	(0.523)	804373	30.0000	30.3(A)
6 1,3-Butadiene	54	3.323	3.323	(0.530)	542193	30.0000	29.8
7 Bromomethane	94	3.483	3.483	(0.556)	751827	30.0000	30.1(A)
8 Chloroethane	64	3.542	3.542	(0.565)	324641	30.0000	30.1(AM)
9 Ethanol	31	3.578	3.578	(0.571)	407121	30.0000	28.9(M)
10 Vinyl Bromide	106	3.682	3.682	(0.588)	1019539	30.0000	31.4(A)
11 Acrolein	56	3.783	3.783	(0.604)	269676	30.0000	30.6(A)
12 Trichlorofluoromethane	101	3.800	3.800	(0.606)	2520318	30.0000	26.9
13 Acetone	43	3.832	3.832	(0.612)	1189633	30.0000	18.0
14 Isopropyl Alcohol	45	3.868	3.868	(0.617)	391388	30.0000	12.0
15 1,1-Dichloroethene	61	4.094	4.094	(0.653)	1472436	30.0000	28.9
16 Acrylonitrile	53	4.101	4.101	(0.654)	484572	30.0000	29.2
17 Tert Butyl Alcohol	59	4.110	4.110	(0.656)	161226	30.0000	3.17(M)
18 Freon 113	101	4.150	4.150	(0.662)	1901488	30.0000	27.8
19 Methylene chloride	49	4.212	4.212	(0.672)	918012	30.0000	29.4
20 Allyl Chloride	76	4.228	4.228	(0.675)	378333	30.0000	29.8
21 Carbon Disulfide	76	4.349	4.349	(0.694)	1784701	30.0000	22.2
22 trans-1,2-dichloroethene	96	4.552	4.552	(0.726)	1035200	30.0000	30.8(A)
23 Methyl Tert Butyl Ether	73	4.591	4.591	(0.732)	1990864	30.0000	29.8(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05811.D
Report Date: 27-Feb-2012 15:49

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)
	24	Vinyl Acetate	43	4.712	4.712	(0.752)	1856058	30.0000	27.4
	25	1,1-Dichloroethane	63	4.718	4.718	(0.753)	1501917	30.0000	27.8
$	26	Hexane-d14(S)	66	4.836	4.836	(0.772)	326334	10.0000	10.1
	27	Methyl Ethyl Ketone	72	4.921	4.921	(0.785)	396622	30.0000	29.9(M)
	28	n-Hexane	57	4.957	4.957	(0.791)	1118588	30.0000	27.8(M)
	29	cis-1,2-Dichloroethene	96	5.124	5.124	(0.817)	1024021	30.0000	32.8(A)
	30	Ethyl Acetate	43	5.146	5.146	(0.821)	1830276	30.0000	29.5(M)
	31	Bromochloromethane	49	Compound Not Detected.					
	32	Chloroform	83	5.271	5.271	(0.841)	2183135	30.0000	29.5
	33	Tetrahydrofuran	42	5.467	5.467	(0.872)	903878	30.0000	29.7
	34	1,1,1-Trichloroethane	97	5.764	5.764	(0.920)	2225765	30.0000	29.6
	35	1,2-Dichloroethane	62	5.784	5.784	(0.923)	1443064	30.0000	29.3
	36	Benzene	78	6.055	6.055	(0.966)	2666845	30.0000	31.2(A)
	37	Carbon tetrachloride	117	6.078	6.078	(0.970)	2419464	30.0000	27.5
	38	Cyclohexane	56	6.081	6.081	(0.970)	1007331	30.0000	26.3
*	39	1,4-Difluorobenzene	114	6.268	6.268	(1.000)	1362216	10.0000	
	40	2,2,4-Trimethylpentane	57	6.447	6.447	(1.029)	3665483	30.0000	29.5
	41	Heptane	43	6.617	6.617	(1.056)	1419570	30.0000	29.0
	42	1,2-Dichloropropane	63	6.696	6.696	(1.068)	910209	30.0000	30.1(AM)
	43	Trichloroethene	130	6.719	6.719	(1.072)	1761435	30.0000	29.8
	44	1,4-Dioxane	88	6.840	6.840	(1.091)	522734	30.0000	29.8(M)
	45	Bromodichloromethane	83	6.840	6.840	(1.091)	2308948	30.0000	29.4
	46	Methyl Isobutyl Ketone	43	7.428	7.428	(1.185)	1748959	30.0000	27.6
	47	cis-1,3-Dichloropropene	75	7.480	7.480	(1.193)	1731273	30.0000	29.8
	48	trans-1,3-Dichloropropene	75	7.977	7.977	(1.273)	1569214	30.0000	30.0(A)
$	49	Toluene-d8 (S)	98	8.056	8.056	(1.285)	1134845	10.0000	10.0
	50	Toluene	91	8.144	8.144	(1.299)	3572231	30.0000	29.7
	51	1,1,2-Trichloroethane	97	8.160	8.160	(1.302)	1252739	30.0000	31.2(A)
	52	Methyl Butyl Ketone	43	8.464	8.464	(0.853)	1230369	30.0000	21.0
	53	Dibromochloromethane	129	8.778	8.778	(0.885)	2860381	30.0000	29.8
	54	1,2-Dibromoethane	107	9.053	9.053	(0.913)	2233613	30.0000	29.8
	55	Tetrachloroethene	166	9.134	9.134	(0.921)	2327364	30.0000	30.0
*	56	Chlorobenzene - d5	117	9.919	9.919	(1.000)	773095	10.0000	
	57	Chlorobenzene	112	9.968	9.968	(1.005)	3353422	30.0000	35.7(A)
	58	Ethyl Benzene	91	10.272	10.272	(1.036)	4607541	30.0000	29.8
	59	m&p-Xylene	91	10.445	10.445	(1.053)	6853212	60.0000	58.6(A)
	60	2-Heptanone	43	10.729	10.729	(1.712)	340205	30.0000	3.97(A)
	61	Bromoform	173	10.899	10.899	(1.099)	3039214	30.0000	30.0
	62	Styrene	104	10.945	10.945	(1.103)	3457215	30.0000	29.9
	63	o-Xylene	91	11.020	11.020	(1.111)	3291140	30.0000	29.8
	64	1,1,2,2-Tetrachloroethane	83	11.341	11.341	(1.143)	2653664	30.0000	29.8
	65	Isopropylbenzene	105	11.700	11.700	(1.180)	5319432	30.0000	29.8
	66	N-Propylbenzene	91	12.364	12.364	(1.246)	5698165	30.0000	29.9
	67	4-Ethyltoluene	105	12.566	12.566	(1.267)	4589734	30.0000	30.0(M)
	68	1,3,5-Trimethylbenzene	105	12.671	12.671	(1.277)	4326133	30.0000	29.8
	69	1,2,4-Trimethylbenzene	105	13.272	13.272	(1.338)	4138446	30.0000	29.9
	70	1,3-Dichlorobenzene	146	13.629	13.629	(1.374)	3593499	30.0000	29.8
	71	Sec- Butylbenzene	105	13.651	13.651	(1.376)	5902110	30.0000	29.4
$	72	1,4-dichlorobenzene-d4 (S)	150	13.710	13.710	(1.382)	383845	10.0000	10.8
	73	Benzyl Chloride	91	13.736	13.736	(1.385)	3370350	30.0000	29.7
	74	1,4-Dichlorobenzene	146	13.763	13.763	(1.388)	3561769	30.0000	29.9
	75	1,2-Dichlorobenzene	146	14.289	14.289	(1.441)	3240994	30.0000	30.0(A)
	76	N-Butylbenzene	91	14.563	14.563	(1.468)	4107824	30.0000	29.5
	77	1,2,4-Trichlorobenzene	180	16.894	16.894	(1.703)	974321	30.0000	29.1

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05811.D
Report Date: 27-Feb-2012 15:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78 Naphthalene	128	17.074	17.074	(1.721)	1817845	30.0000	28.4
79 Hexachlorobutadiene	225	17.440	17.440	(1.758)	838507	30.0000	31.0(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05811.D
Report Date: 27-Feb-2012 15:49

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05811.D
Lab Smp Id: ICAL 7
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

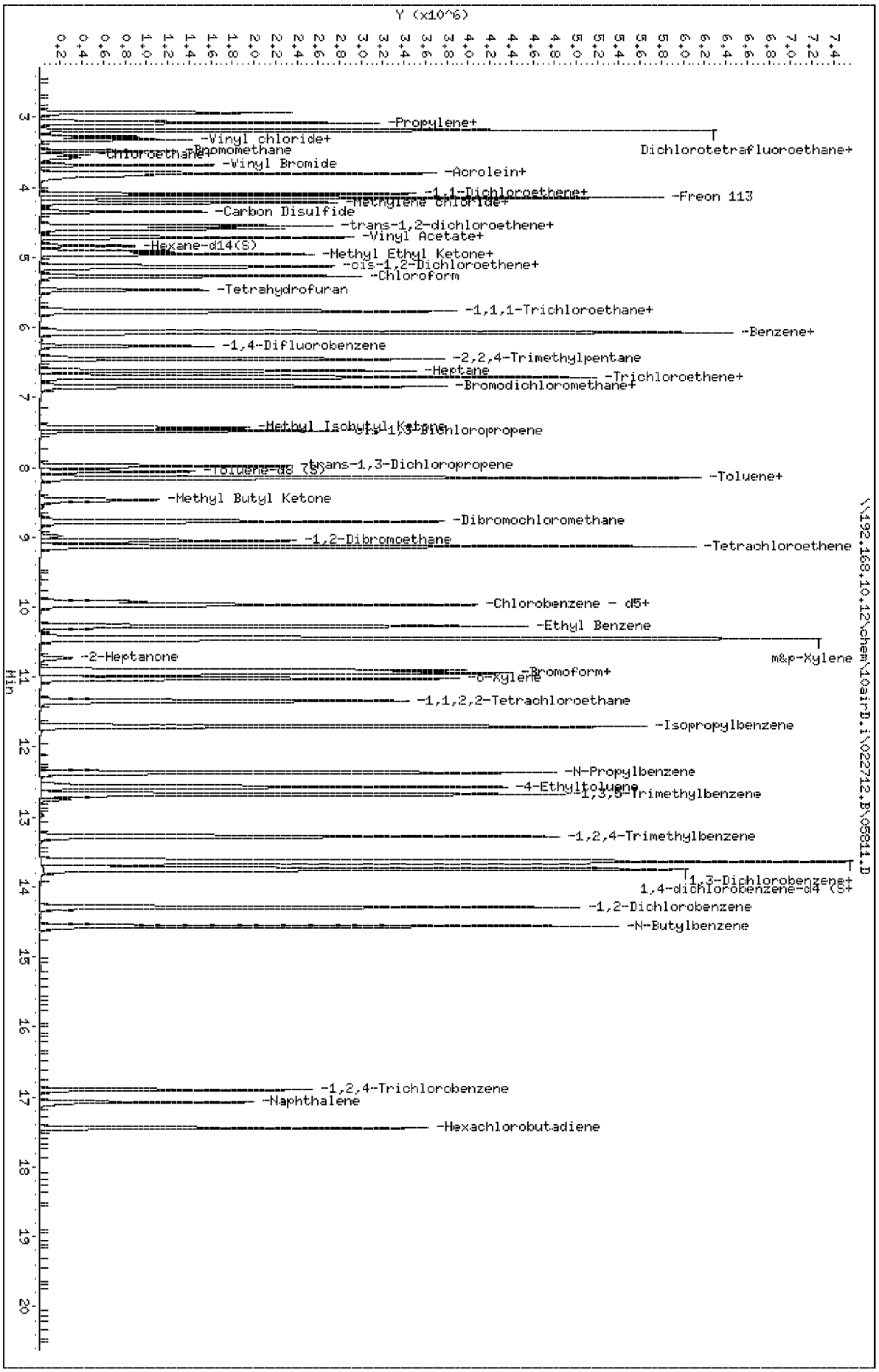
Calibration Date: 27-FEB-2012
Calibration Time: 14:16
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1362216	4.14
56 Chlorobenzene - d	717767	430660	1004874	773095	7.71

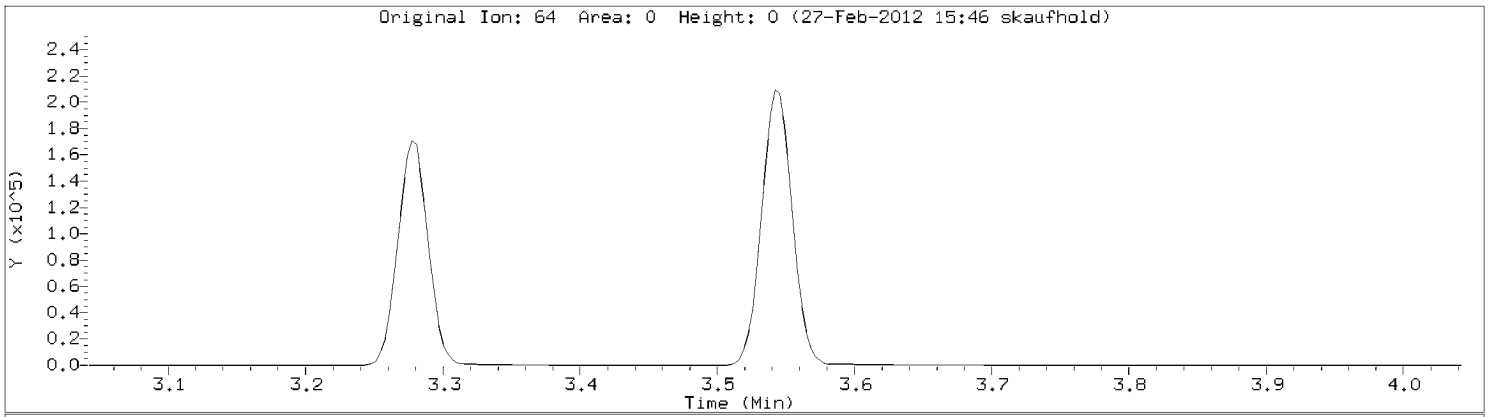
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.27	0.11
56 Chlorobenzene - d	9.91	9.58	10.24	9.92	0.10

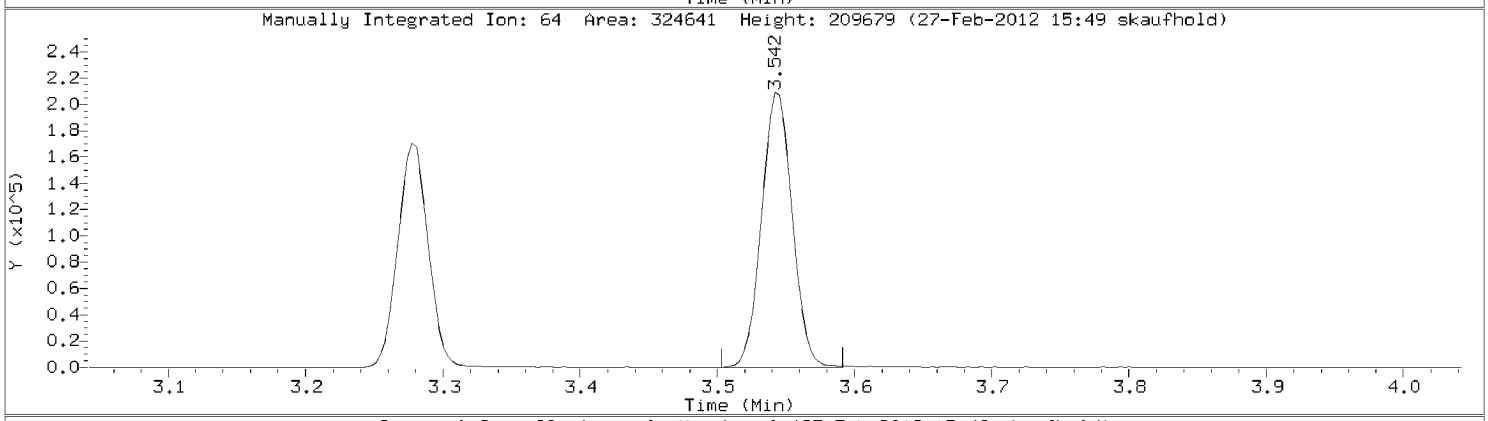
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

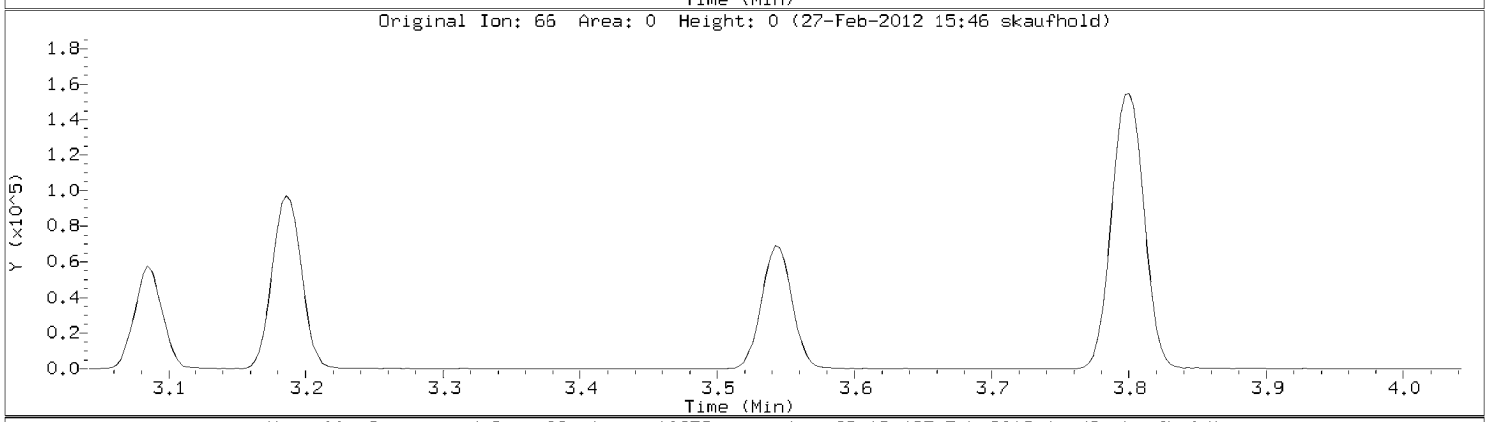

Y (x10^6)
Data File: \\192.168.10.12\chem\10airD.i\022712.B\05014.D
Date : 27-FEB-2012 15:15
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32
\\192.168.10.12\chem\10airD.i\022712.B\05014.D
Propylene+
Vinyl chloride+
Bromomethane
Chloroethane
Vinyl Bromide
Acrolein+
Dichlorotetrafluoroethane+
1,1-Dichloroethene+
Freon 113
Methylene chloride+
Carbon Disulfide
trans-1,2-dichloroethene+
Vinyl Acetate+
Hexane-d14(S)
Methyl Ethyl Ketone+
cis-1,2-Dichloroethene+
Chloroform
Tetrahydrofuran
1,1,1-Trichloroethane+
Benzene+
1,4-Difluorobenzene
2,2,4-Trimethylpentane
Heptane
Trichloroethene+
Bromodichloromethane+
Methyl Isobutyl Ketone
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Toluene-d8 (S)
Toluene+
Methyl Butyl Ketone
Dibromochloromethane
1,2-Dibromoethane
Tetrachloroethene
Chlorobenzene - d5+
Ethyl Benzene
m&p-Xylene
2-Heptanone
Bromoform+
o-Xylene
1,1,2,2-Tetrachloroethane
Isopropylbenzene
N-Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene+
1,4-dichlorobenzene-d4 (S+
1,2-Dichlorobenzene
N-Butylbenzene
1,2,4-Trichlorobenzene
Naphthalene
Hexachlorobutadiene
Min

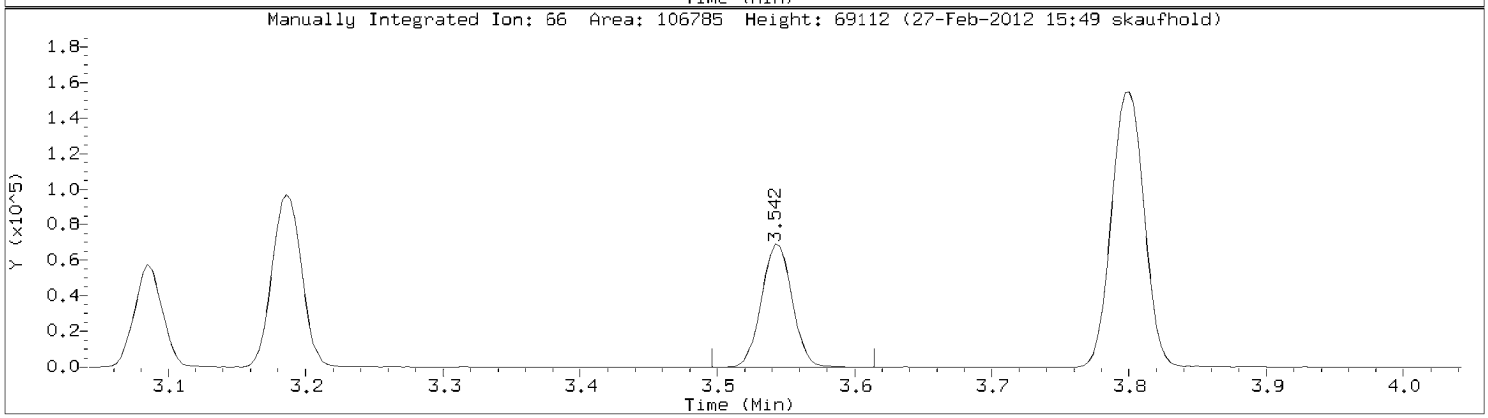
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: Chloroethane
CAS Number: 75-00-3



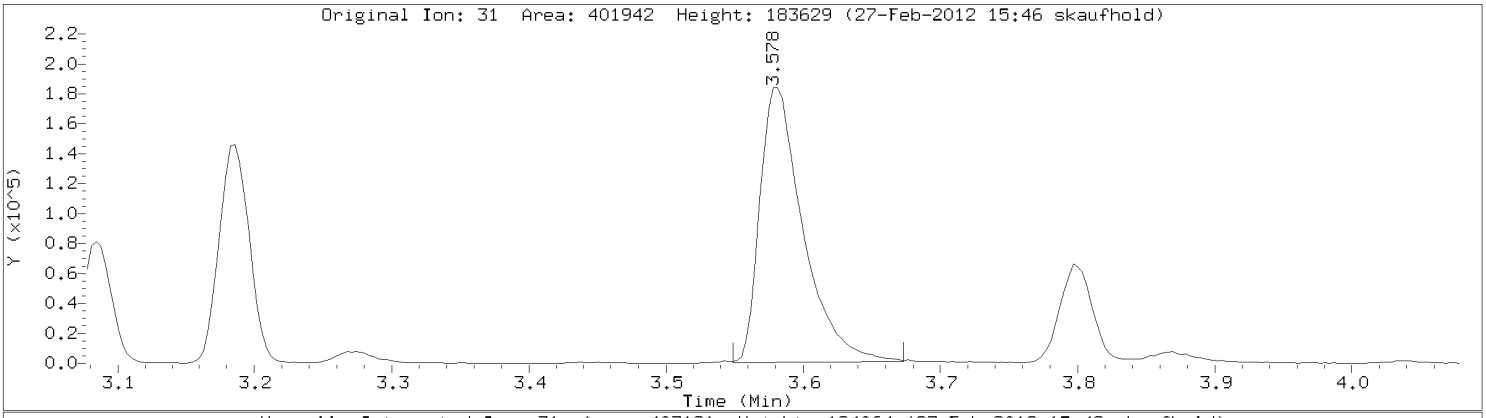


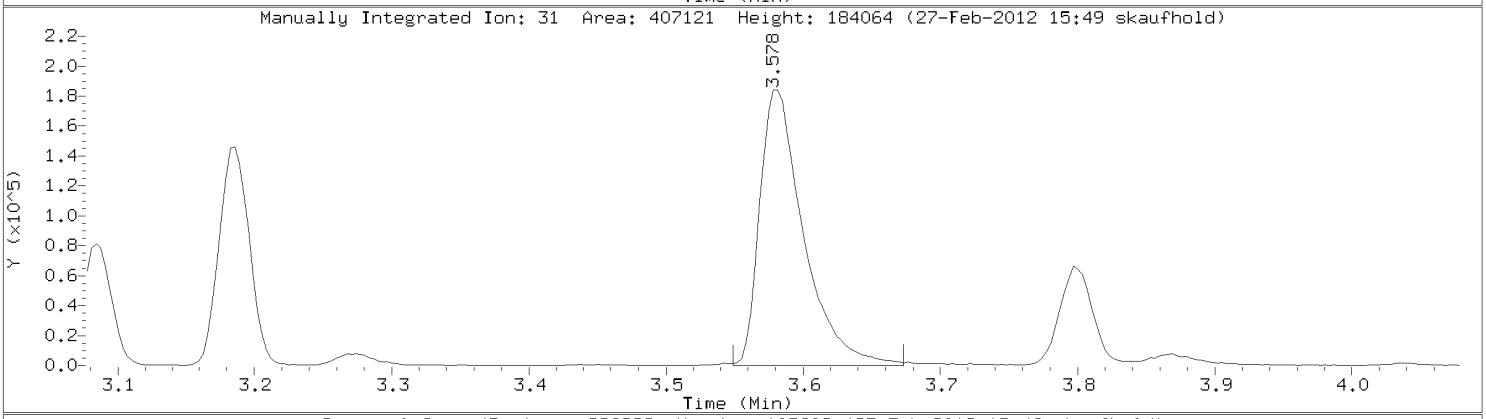


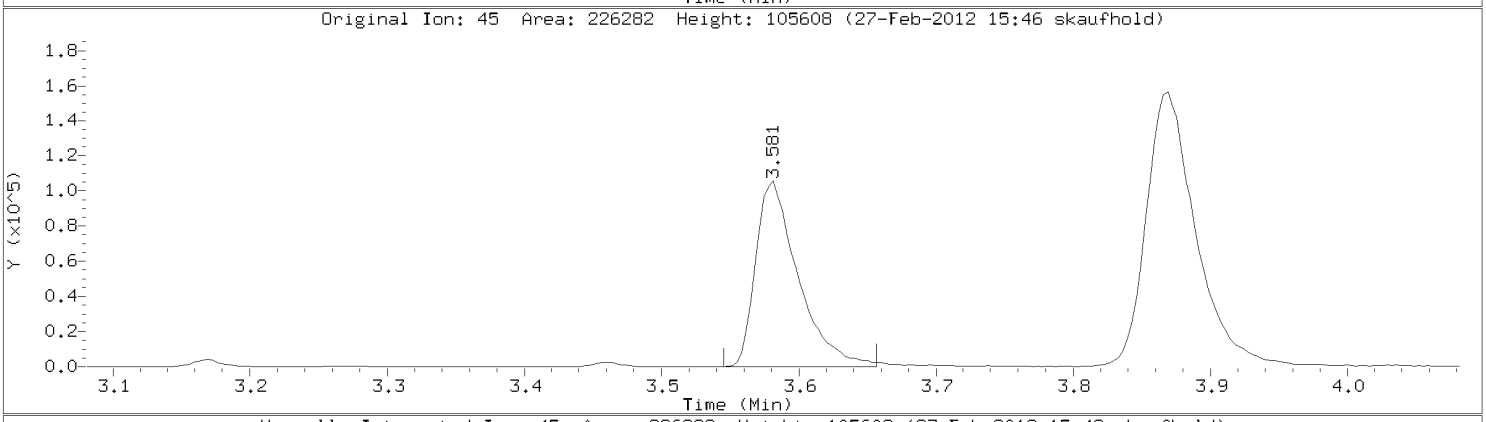


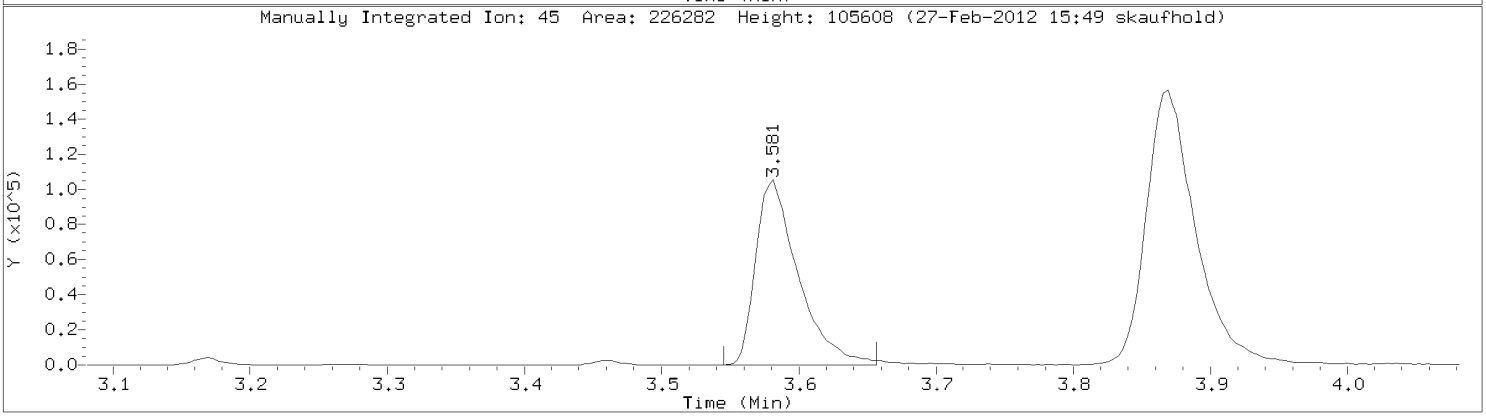
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: Ethanol
CAS Number: 64-17-5



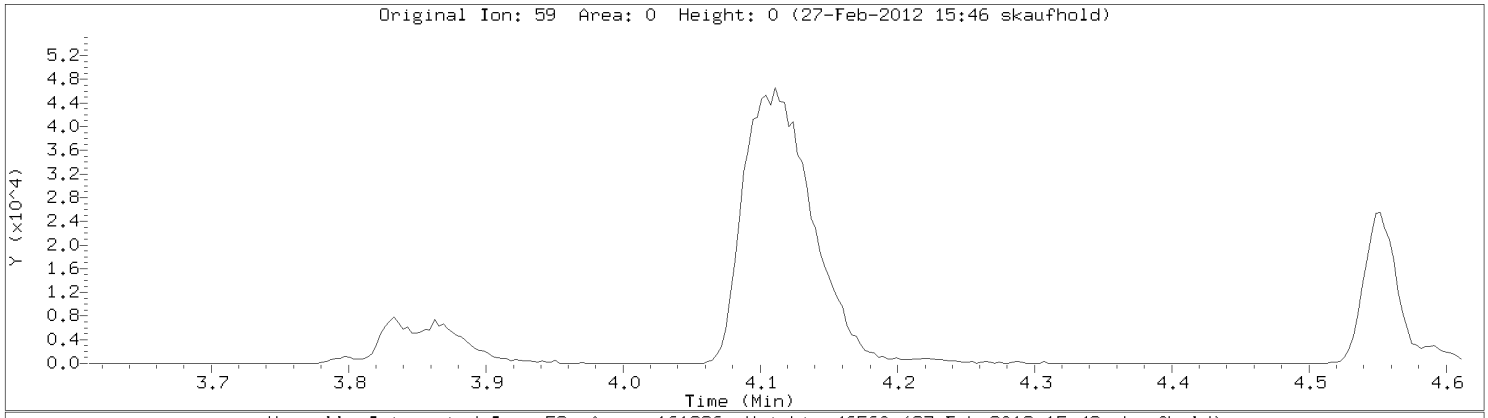


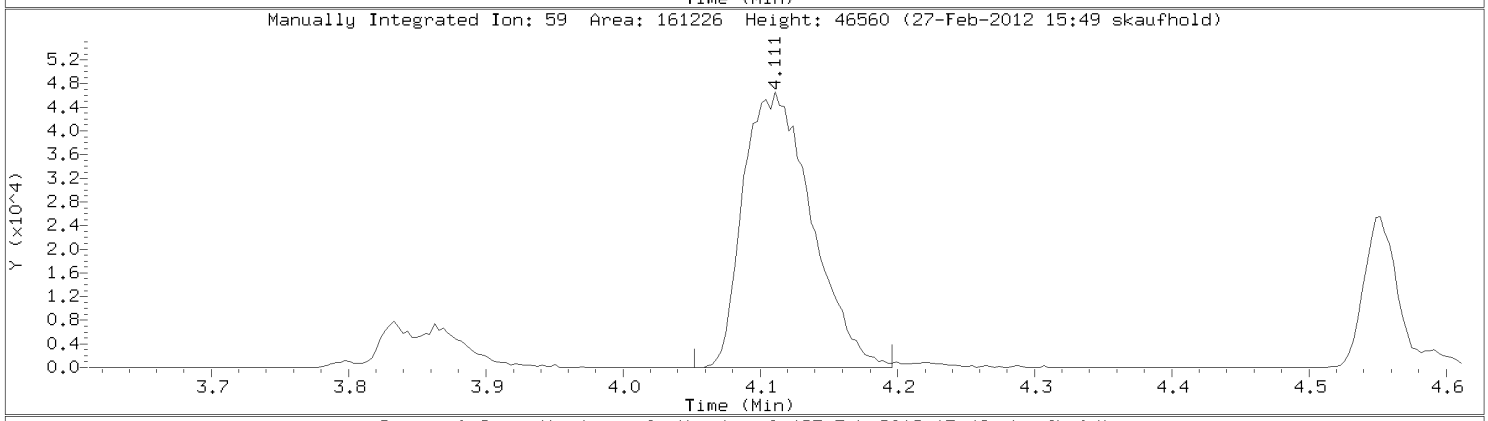


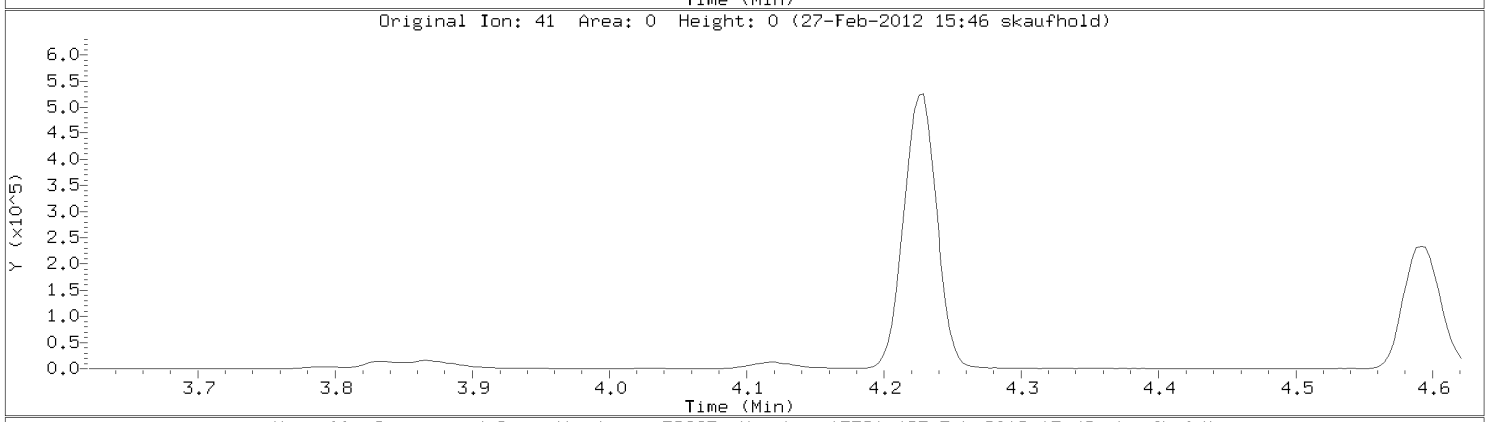


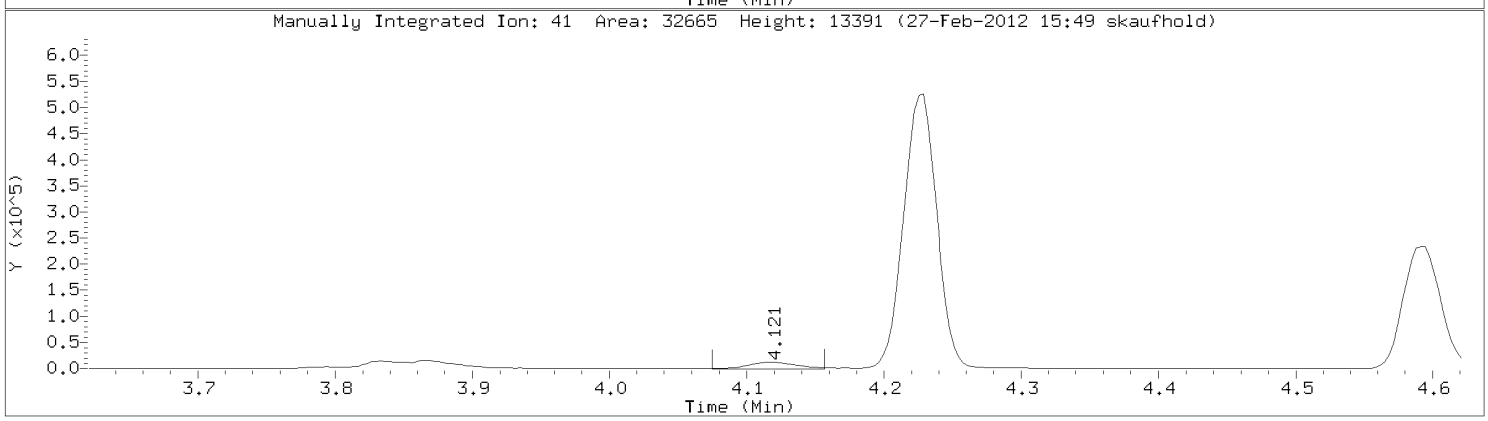
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



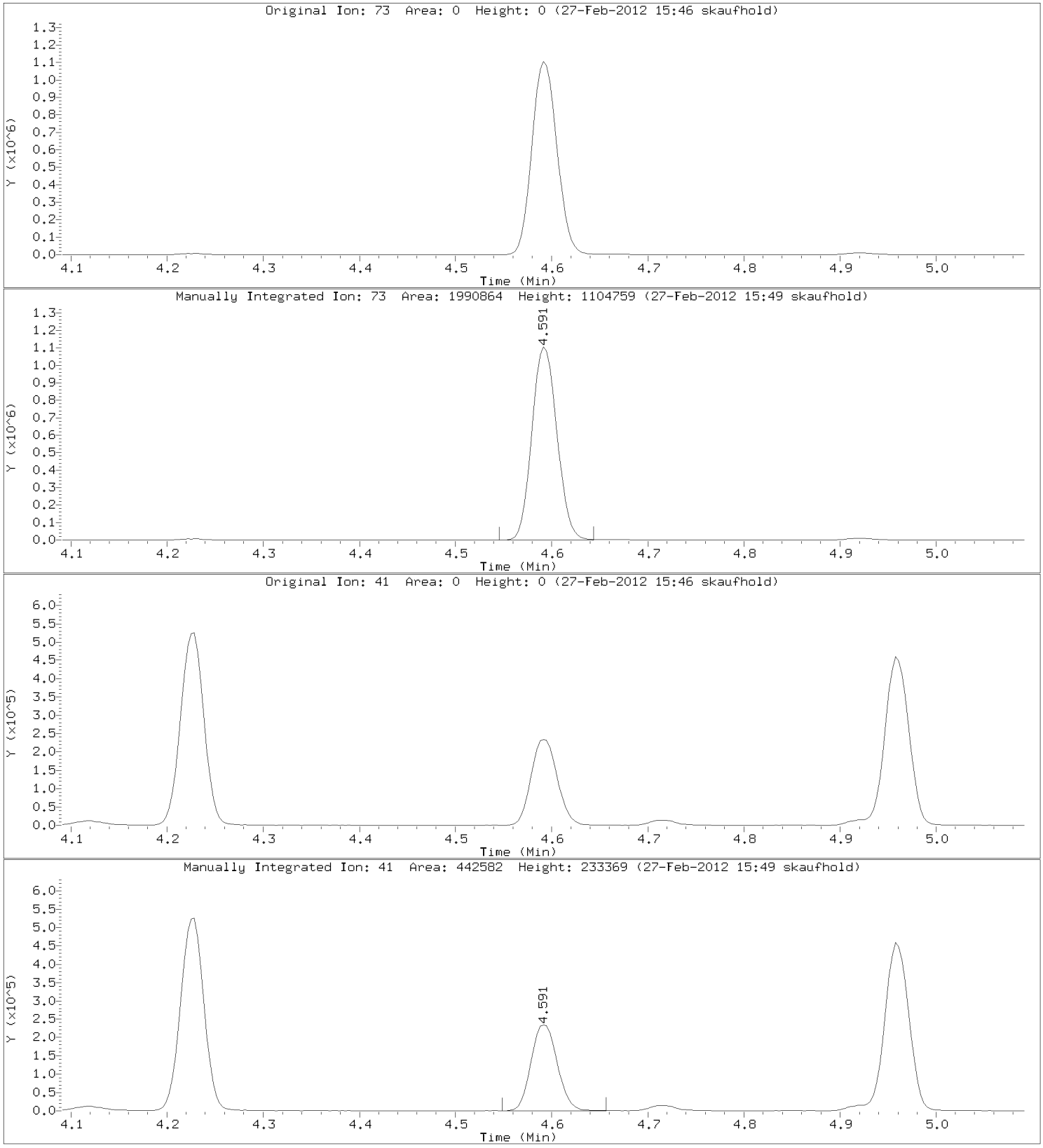






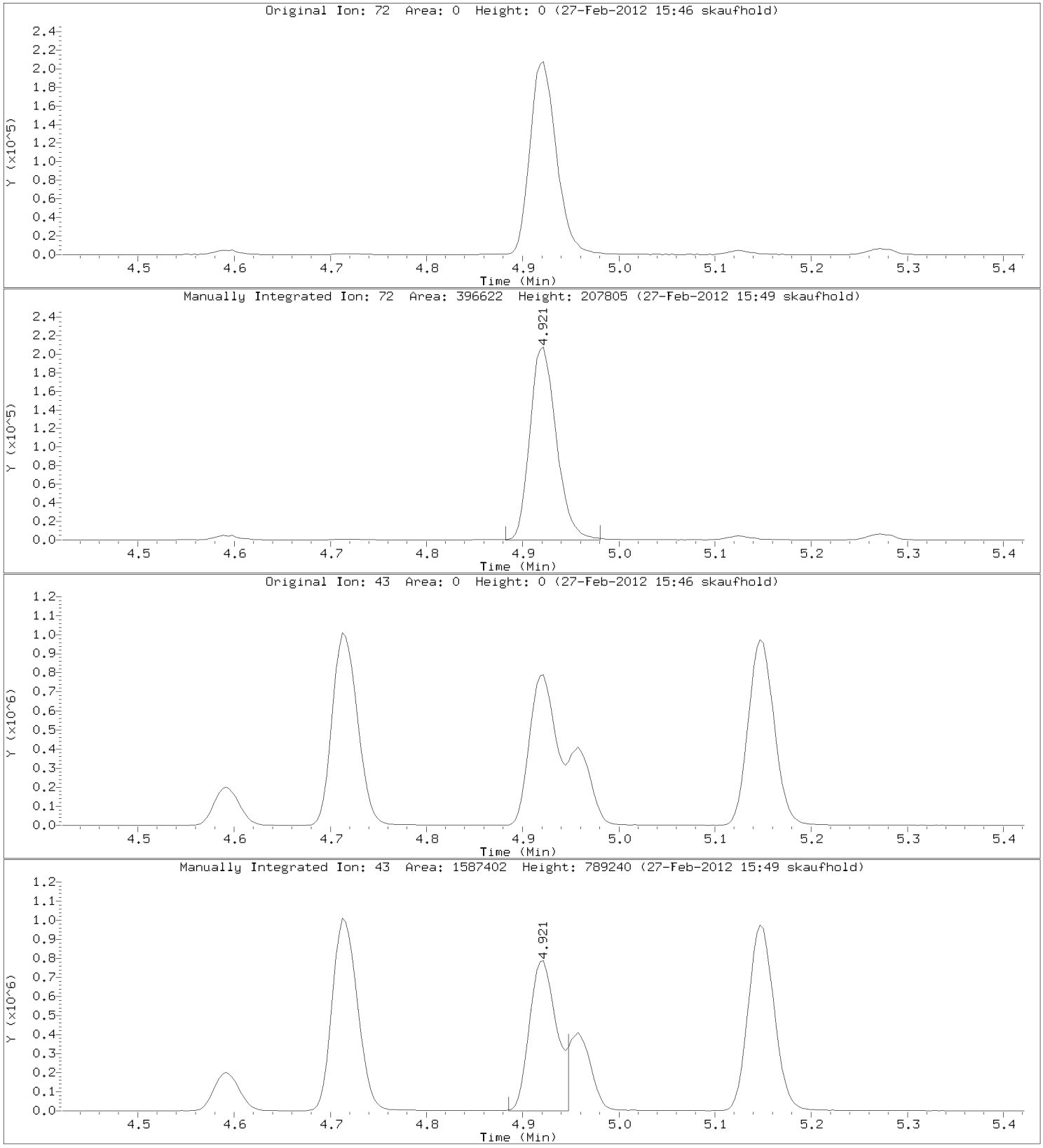
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



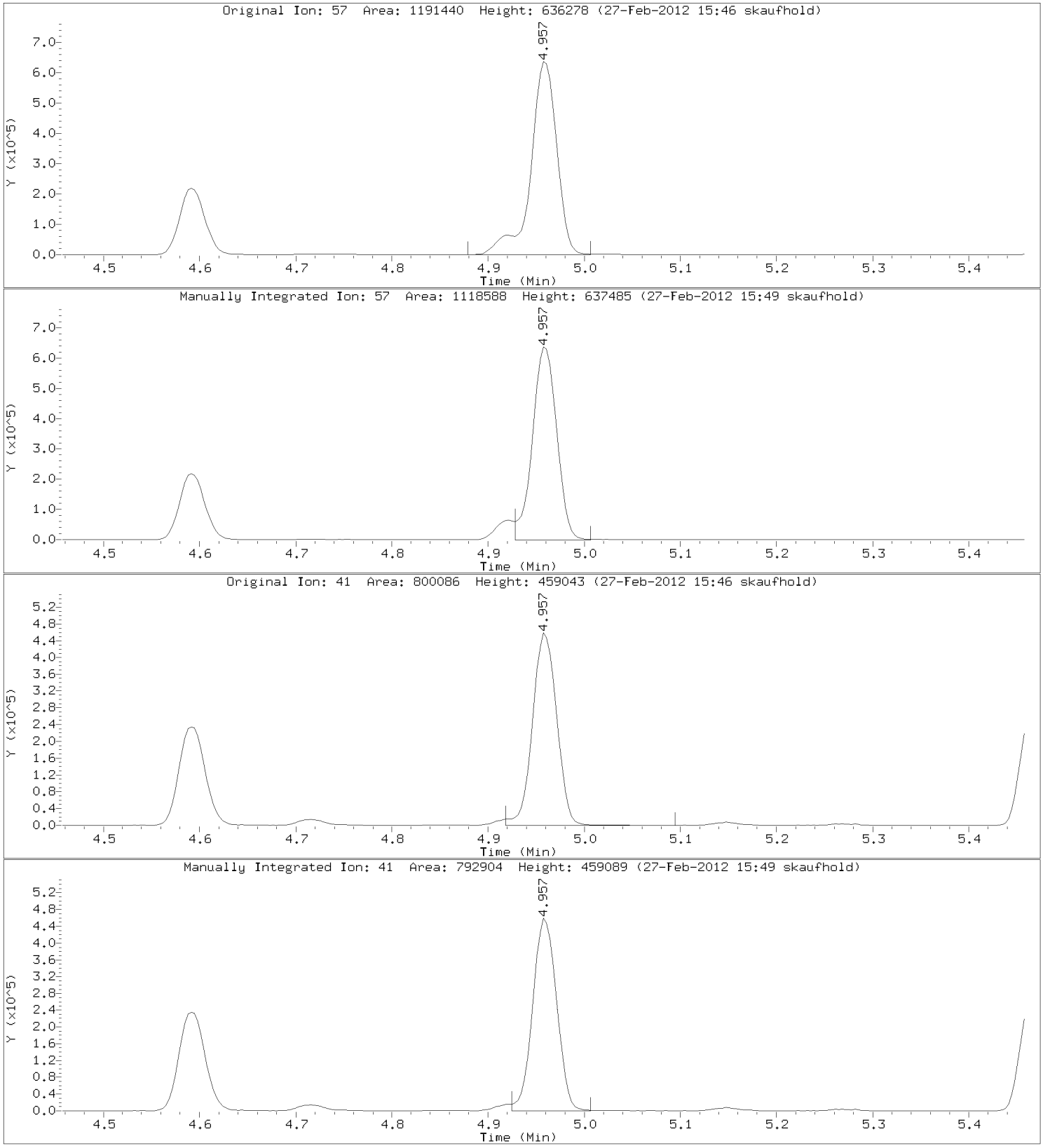
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

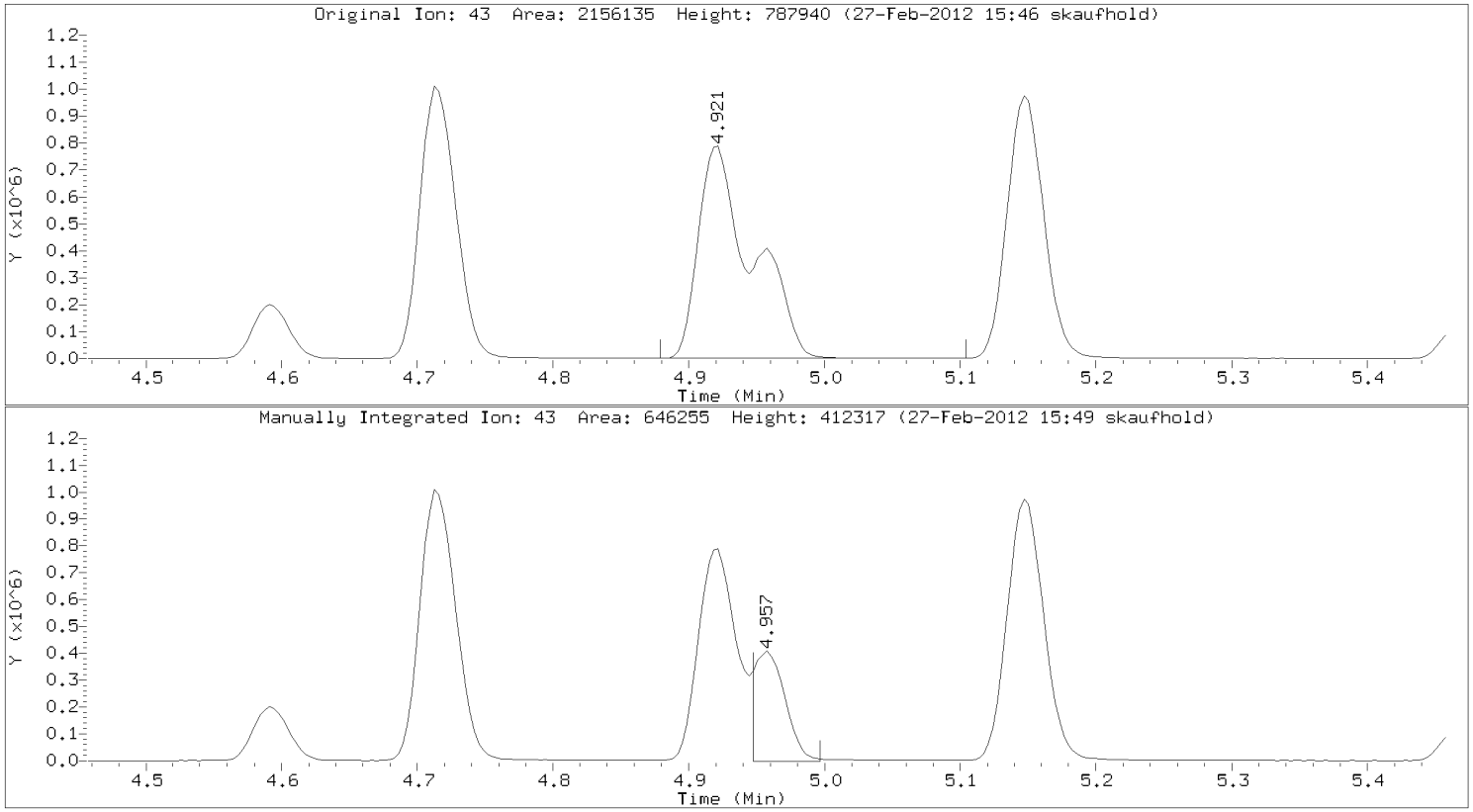


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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: n-Hexane
CAS Number: 110-54-3

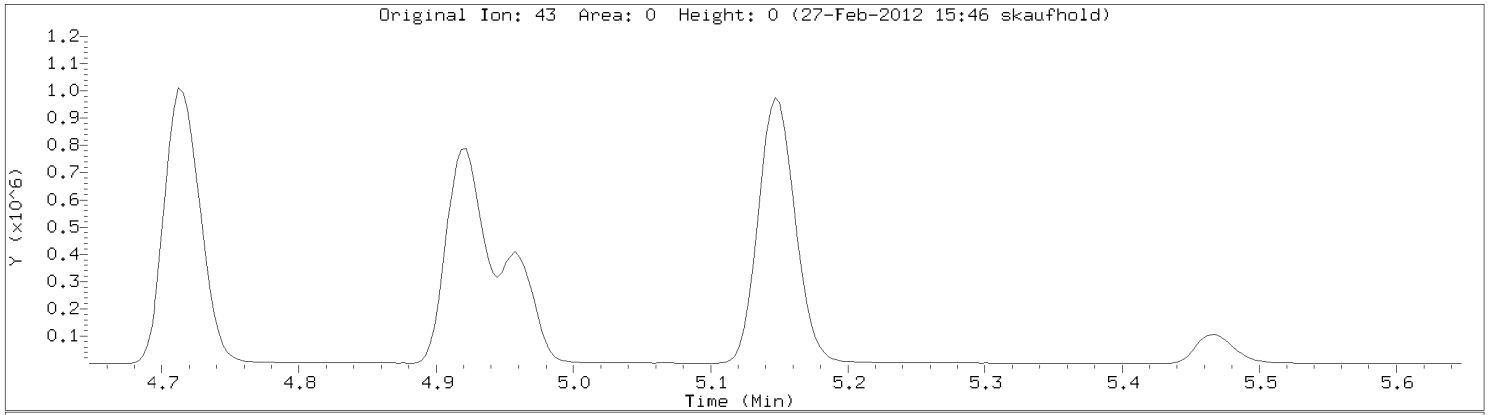


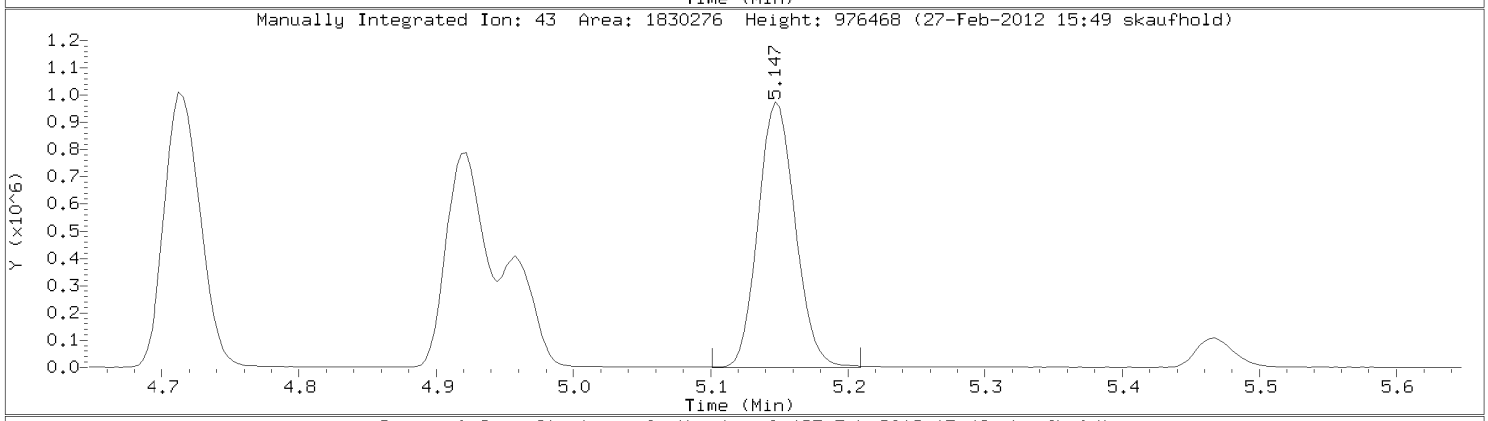
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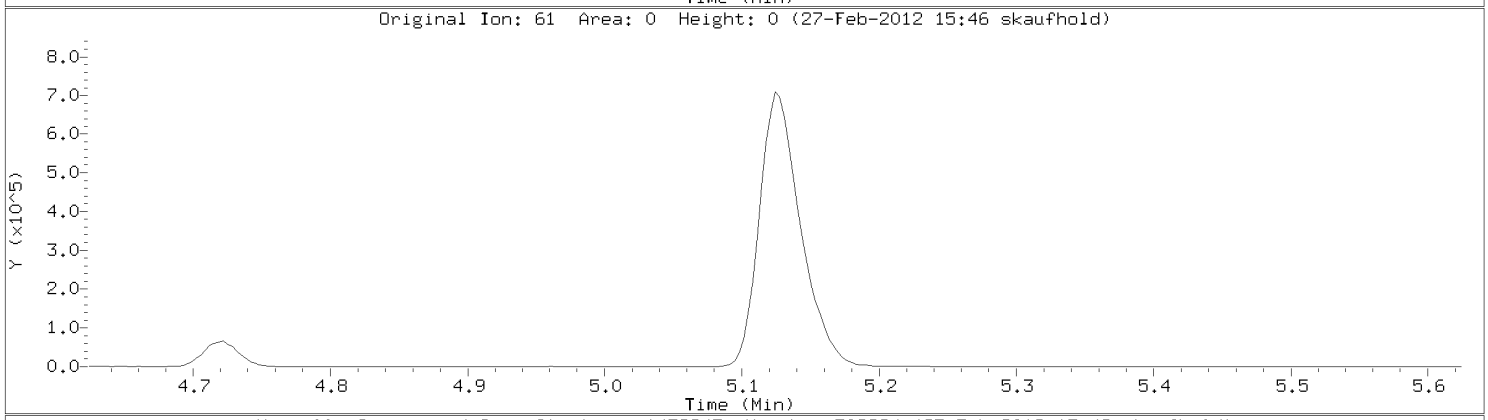


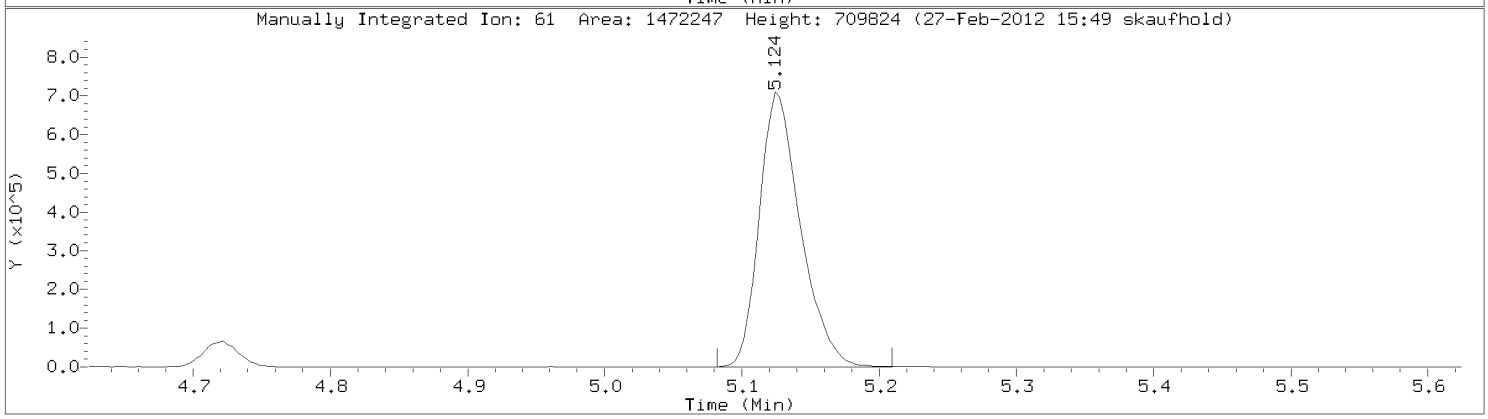
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: Ethyl Acetate
CAS Number: 141-78-6

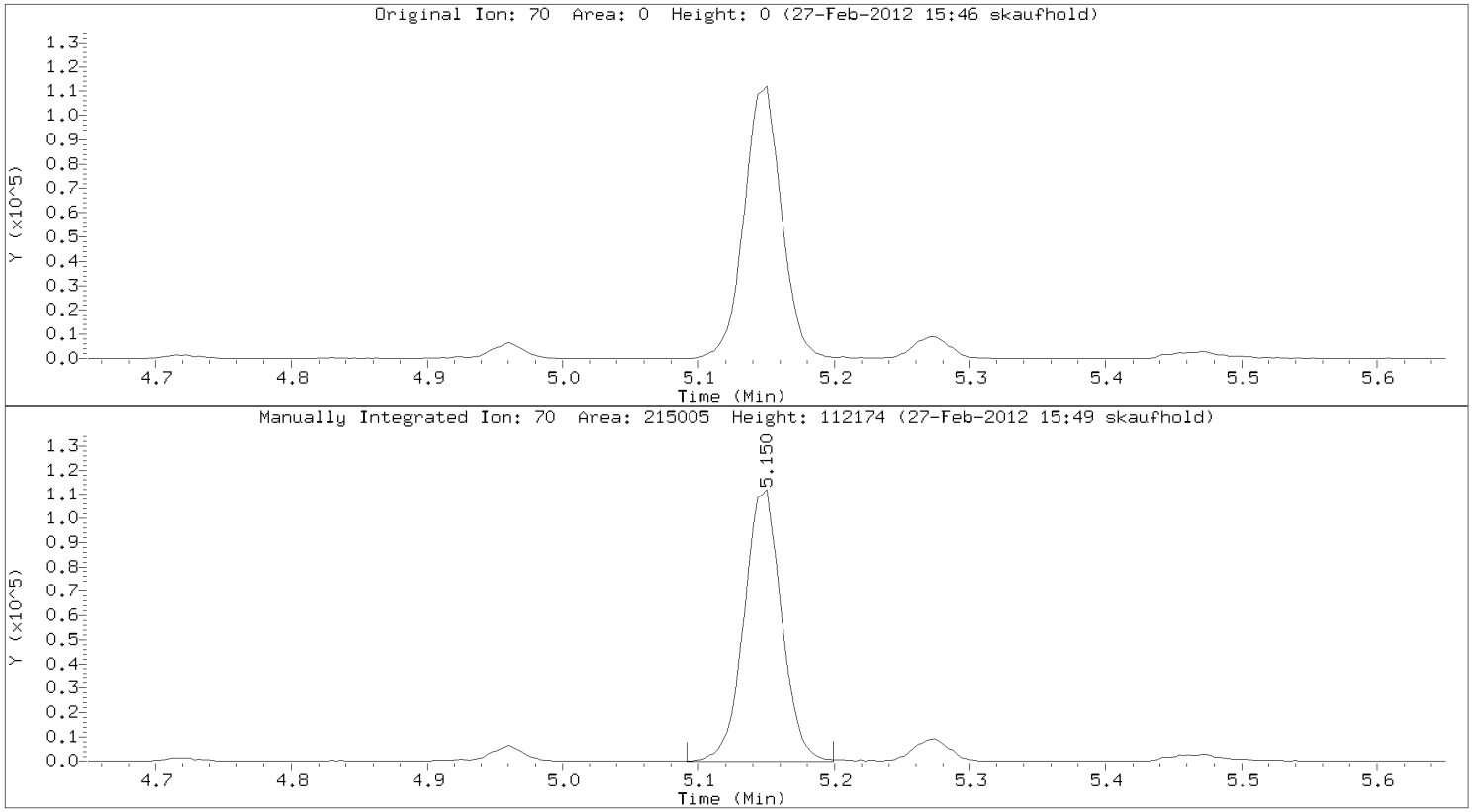






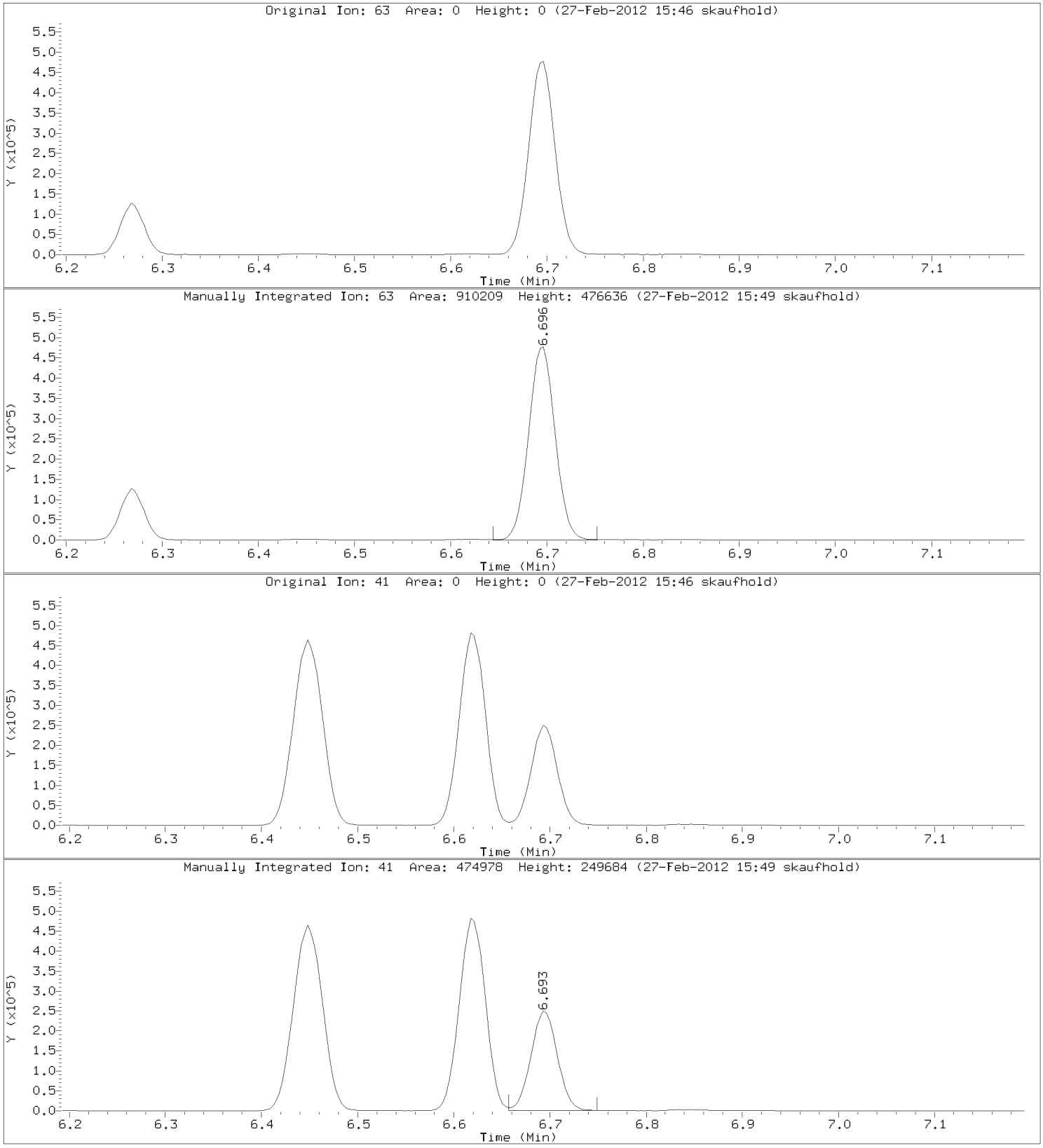


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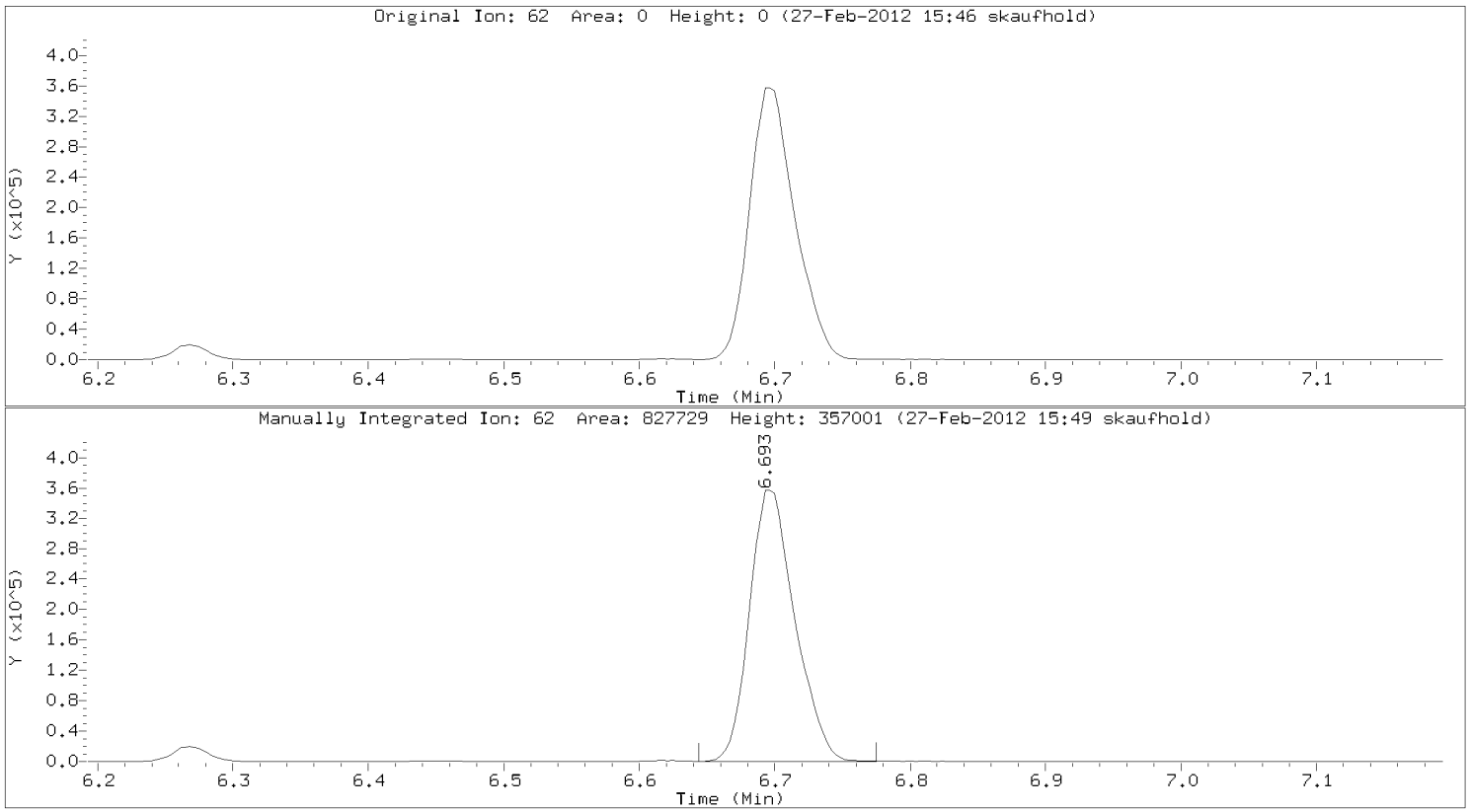


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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

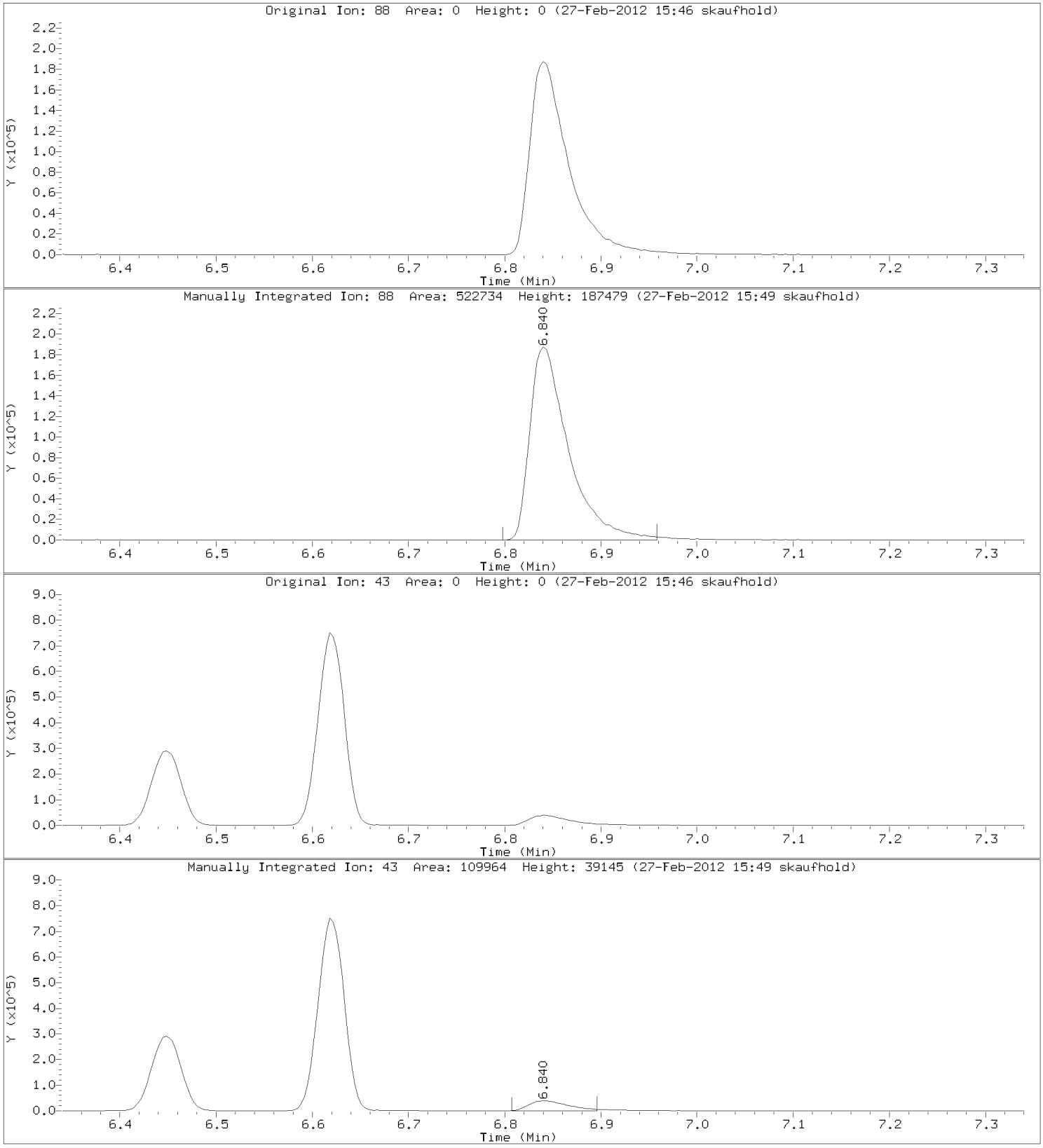


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Instrument: 10airD.i
Lab Sample ID: ICAL 7



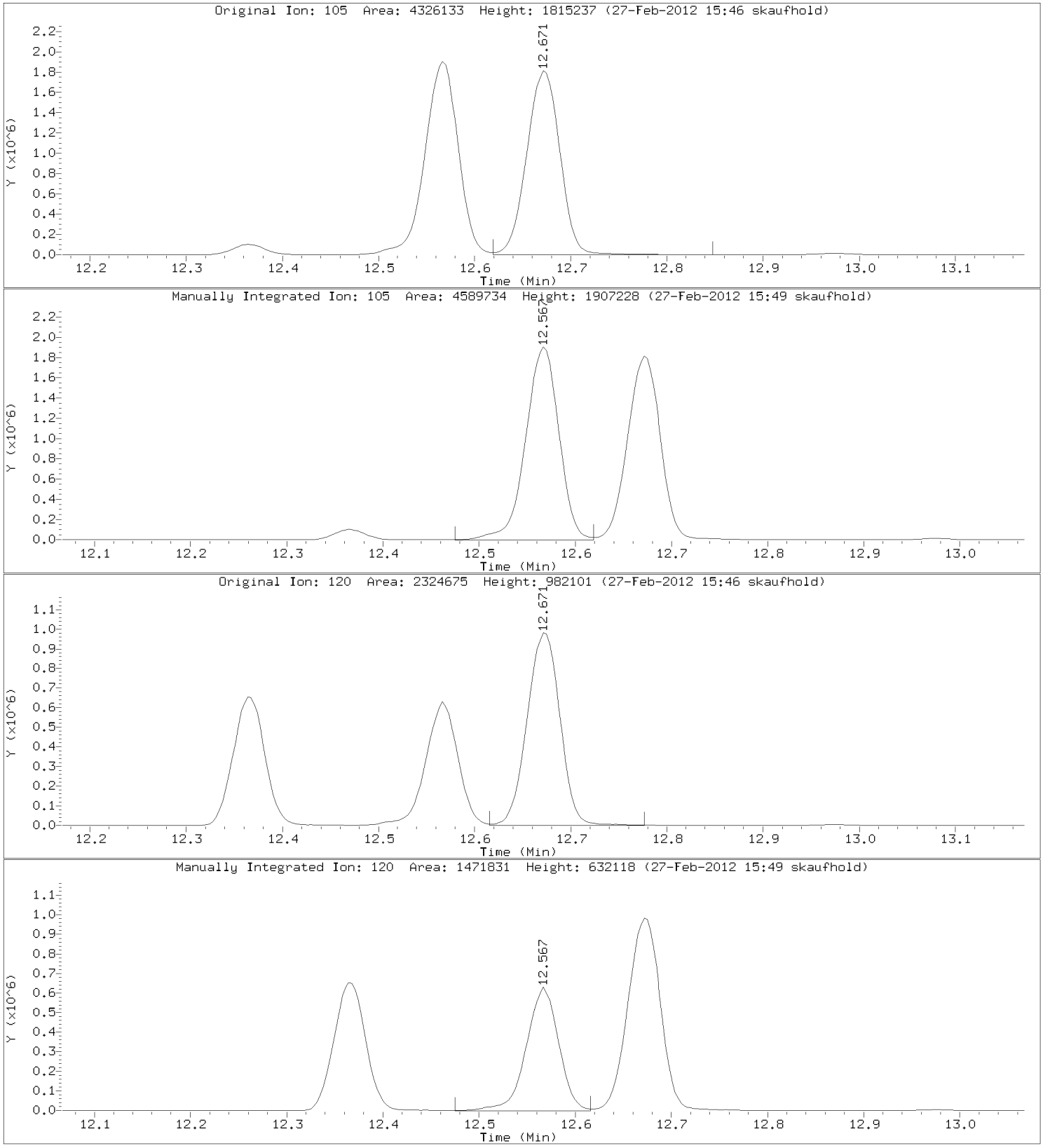
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Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: 1,4-Dioxane
CAS Number: 123-91-1

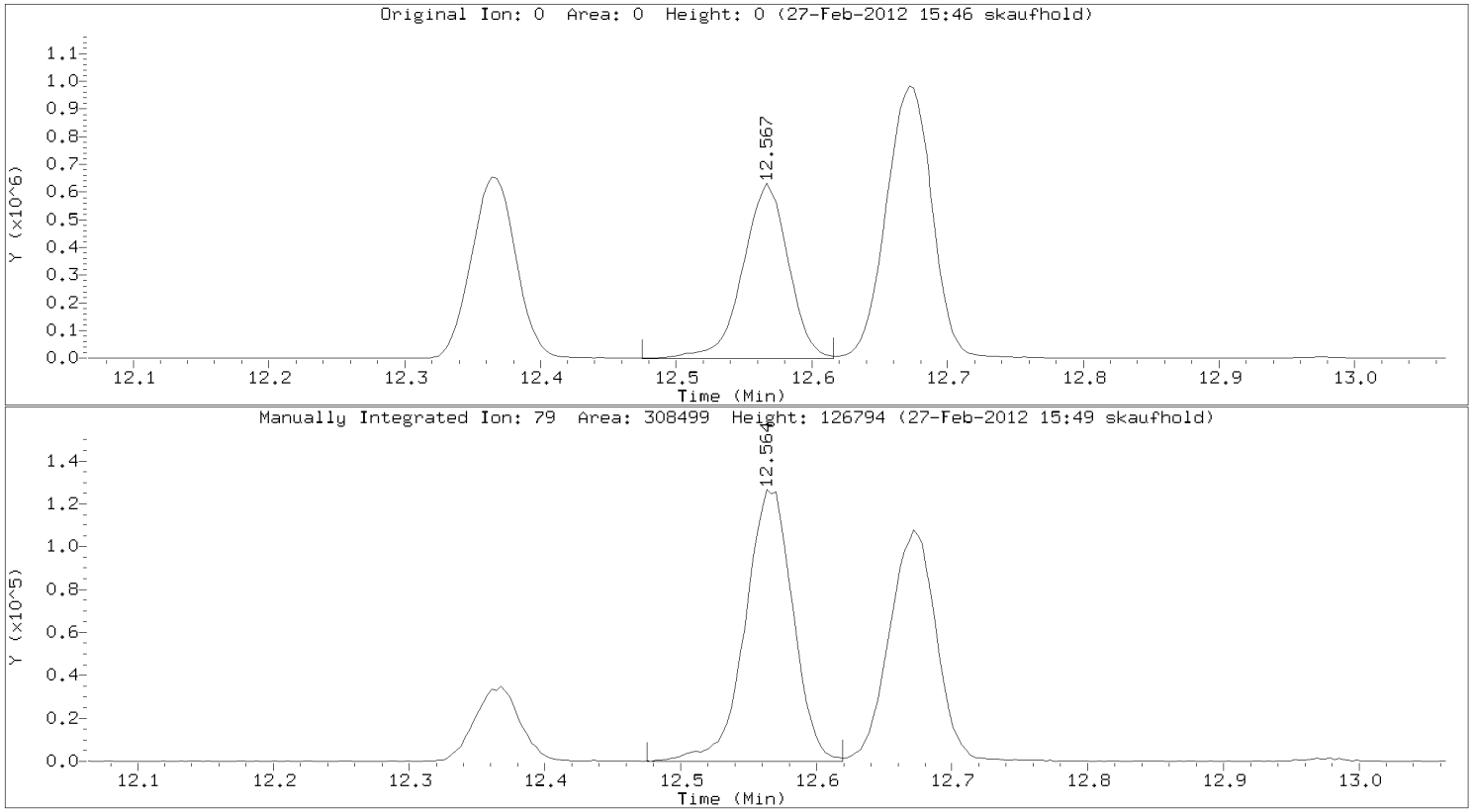


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05811.D
Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05811.D
Injection Date: 27-FEB-2012 15:15
Instrument: 10airD.i
Lab Sample ID: ICAL 7



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05812.D
Report Date: 28-Feb-2012 08:23

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05812.D
Lab Smp Id: SSV
Inj Date : 27-FEB-2012 17:40
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 28-Feb-2012 08:22 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 15:15 Cal File: 05811.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Propylene	41	3.058	3.055	(0.488)	204240	11.1847	11.2
2	Dichlorodifluoromethane	85	3.087	3.084	(0.493)	918781	10.7505	10.8
3	Dichlorotetrafluoroethane	85	3.185	3.186	(0.509)	839839	10.6493	10.6
4	Chloromethane	50	3.189	3.186	(0.509)	309825	9.64321	9.64
5	Vinyl chloride	62	3.280	3.277	(0.524)	297561	11.2008	11.2
6	1,3-Butadiene	54	3.323	3.323	(0.531)	199175	10.8705	10.9
7	Bromomethane	94	3.486	3.483	(0.557)	348168	13.9452	13.9
8	Chloroethane	64	3.542	3.542	(0.566)	144210	13.3565	13.4(M)
9	Ethanol	31	3.577	3.578	(0.571)	193098	13.5623	13.6
10	Vinyl Bromide	106	3.685	3.683	(0.589)	373293	11.4705	11.5
11	Acrolein	56	3.783	3.784	(0.604)	90106	10.2090	10.2
12	Trichlorofluoromethane	101	3.796	3.800	(0.606)	923035	9.84800	9.85
13	Acetone	43	3.829	3.833	(0.612)	530022	10.5282	10.5
14	Isopropyl Alcohol	45	3.859	3.869	(0.616)	463713	8.07234	8.07(Q)
15	1,1-Dichloroethene	61	4.091	4.094	(0.653)	485535	9.50878	9.51
16	Acrylonitrile	53	4.094	4.101	(0.654)	199329	11.8087	11.8
17	Tert Butyl Alcohol	59	4.107	4.111	(0.656)	501055	7.17601	7.18(M)
18	Freon 113	101	4.146	4.150	(0.662)	777791	11.3681	11.4
19	Methylene chloride	49	4.208	4.211	(0.672)	368094	11.5653	11.6
20	Allyl Chloride	76	4.225	4.229	(0.675)	137968	10.7912	10.8
21	Carbon Disulfide	76	4.349	4.349	(0.695)	950358	15.7890	15.8(R)
22	trans-1,2-dichloroethene	96	4.548	4.552	(0.726)	370424	10.9991	11.0
23	Methyl Tert Butyl Ether	73	4.588	4.591	(0.733)	763013	11.3543	11.4(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05812.D
Report Date: 28-Feb-2012 08:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Vinyl Acetate	43	4.708	4.712	(0.752)	704434	10.3864	10.4
	25 1,1-Dichloroethane	63	4.715	4.719	(0.753)	564010	10.4140	10.4
$	26 Hexane-d14(S)	66	4.836	4.836	(0.772)	321974	9.91554	9.92
	27 Methyl Ethyl Ketone	72	4.911	4.921	(0.784)	145531	10.8160	10.8(M)
	28 n-Hexane	57	4.954	4.957	(0.791)	420482	10.4320	10.4(M)
	29 cis-1,2-Dichloroethene	96	5.120	5.124	(0.818)	381777	12.2252	12.2
	30 Ethyl Acetate	43	5.140	5.147	(0.821)	632151	10.0002	10.0
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.264	5.271	(0.841)	753919	10.1718	10.2
	33 Tetrahydrofuran	42	5.463	5.467	(0.873)	316386	10.3718	10.4
	34 1,1,1-Trichloroethane	97	5.758	5.765	(0.920)	794523	10.4900	10.5
	35 1,2-Dichloroethane	62	5.774	5.784	(0.922)	494530	9.87289	9.87
	36 Benzene	78	6.049	6.056	(0.966)	972273	11.3549	11.4
	37 Carbon tetrachloride	117	6.071	6.079	(0.970)	885010	10.0077	10.0
	38 Cyclohexane	56	6.075	6.082	(0.970)	428943	11.1429	11.1
*	39 1,4-Difluorobenzene	114	6.261	6.268	(1.000)	1363688	10.0000	
	40 2,2,4-Trimethylpentane	57	6.441	6.448	(1.029)	1397369	11.1642	11.2
	41 Heptane	43	6.614	6.618	(1.056)	512925	10.3550	10.4
	42 1,2-Dichloropropane	63	6.686	6.696	(1.068)	348324	11.5115	11.5(M)
	43 Trichloroethene	130	6.709	6.719	(1.072)	602157	10.2070	10.2
	44 1,4-Dioxane	88	6.833	6.840	(1.091)	218236	12.2953	12.3(M)
	45 Bromodichloromethane	83	6.833	6.840	(1.091)	816348	10.3399	10.3
	46 Methyl Isobutyl Ketone	43	7.415	7.429	(1.184)	640051	9.94617	9.95
	47 cis-1,3-Dichloropropene	75	7.470	7.481	(1.193)	540077	9.32793	9.33
	48 trans-1,3-Dichloropropene	75	7.967	7.978	(1.272)	568035	11.0164	11.0
$	49 Toluene-d8 (S)	98	8.046	8.055	(1.285)	1092768	9.62601	9.63
	50 Toluene	91	8.134	8.144	(1.299)	1254418	10.4314	10.4
	51 1,1,2-Trichloroethane	97	8.144	8.161	(1.301)	472234	11.7385	11.7
	52 Methyl Butyl Ketone	43	8.451	8.465	(0.853)	627985	10.9140	10.9
	53 Dibromochloromethane	129	8.765	8.778	(0.885)	1040338	11.2755	11.3
	54 1,2-Dibromoethane	107	9.036	9.053	(0.912)	794022	11.0262	11.0
	55 Tetrachloroethene	166	9.128	9.135	(0.921)	804287	10.7991	10.8
*	56 Chlorobenzene - d5	117	9.909	9.919	(1.000)	747629	10.0000	
	57 Chlorobenzene	112	9.958	9.968	(1.005)	1122966	12.3562	12.4
	58 Ethyl Benzene	91	10.259	10.272	(1.035)	1576650	10.6565	10.6
	59 m&p-Xylene	91	10.435	10.445	(1.053)	1226517	10.8173	10.8
	60 2-Heptanone	43	10.719	10.730	(1.712)	19091	0.20015	0.200(AM)
	61 Bromoform	173	10.883	10.900	(1.098)	977392	10.0793	10.1
	62 Styrene	104	10.929	10.946	(1.103)	1018592	9.22713	9.23
	63 o-Xylene	91	11.007	11.021	(1.111)	1256182	11.8137	11.8
	64 1,1,2,2-Tetrachloroethane	83	11.321	11.341	(1.142)	858650	9.93100	9.93
	65 Isopropylbenzene	105	11.687	11.701	(1.179)	1806616	10.4806	10.5
	66 N-Propylbenzene	91	12.351	12.364	(1.246)	2027696	11.0891	11.1(M)
	67 4-Ethyltoluene	105	12.553	12.567	(1.267)	1770166	12.0563	12.0
	68 1,3,5-Trimethylbenzene	105	12.654	12.671	(1.277)	1435362	10.3077	10.3
	69 1,2,4-Trimethylbenzene	105	13.256	13.273	(1.338)	1384136	10.4821	10.5
	70 1,3-Dichlorobenzene	146	13.615	13.629	(1.374)	1148430	9.96479	9.96
	71 Sec- Butylbenzene	105	13.635	13.652	(1.376)	2032843	10.4581	10.4
$	72 1,4-dichlorobenzene-d4 (S)	150	13.694	13.711	(1.382)	328820	9.53839	9.54
	73 Benzyl Chloride	91	13.720	13.737	(1.385)	1157239	10.6630	10.7
	74 1,4-Dichlorobenzene	146	13.743	13.763	(1.387)	1141565	9.99562	10.0
	75 1,2-Dichlorobenzene	146	14.276	14.289	(1.441)	1028338	9.97434	9.97
	76 N-Butylbenzene	91	14.550	14.564	(1.468)	1356414	10.0968	10.1
	77 1,2,4-Trichlorobenzene	180	16.897	16.893	(1.705)	377152	8.72956	8.73

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05812.D
Report Date: 28-Feb-2012 08:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78 Naphthalene	128	17.074	17.074	(1.723)	741942	5.25429	5.25(R)
79 Hexachlorobutadiene	225	17.446	17.440	(1.761)	308115	10.0404	10.0

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05812.D
Report Date: 28-Feb-2012 08:23

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05812.D
Lab Smp Id: SSV
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

Calibration Date: 27-FEB-2012
Calibration Time: 18:09
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1363688	4.26
56 Chlorobenzene - d	717767	430660	1004874	747629	4.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	0.00
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05812.D
Report Date: 28-Feb-2012 08:23

Pace Analytical Services

RECOVERY REPORT

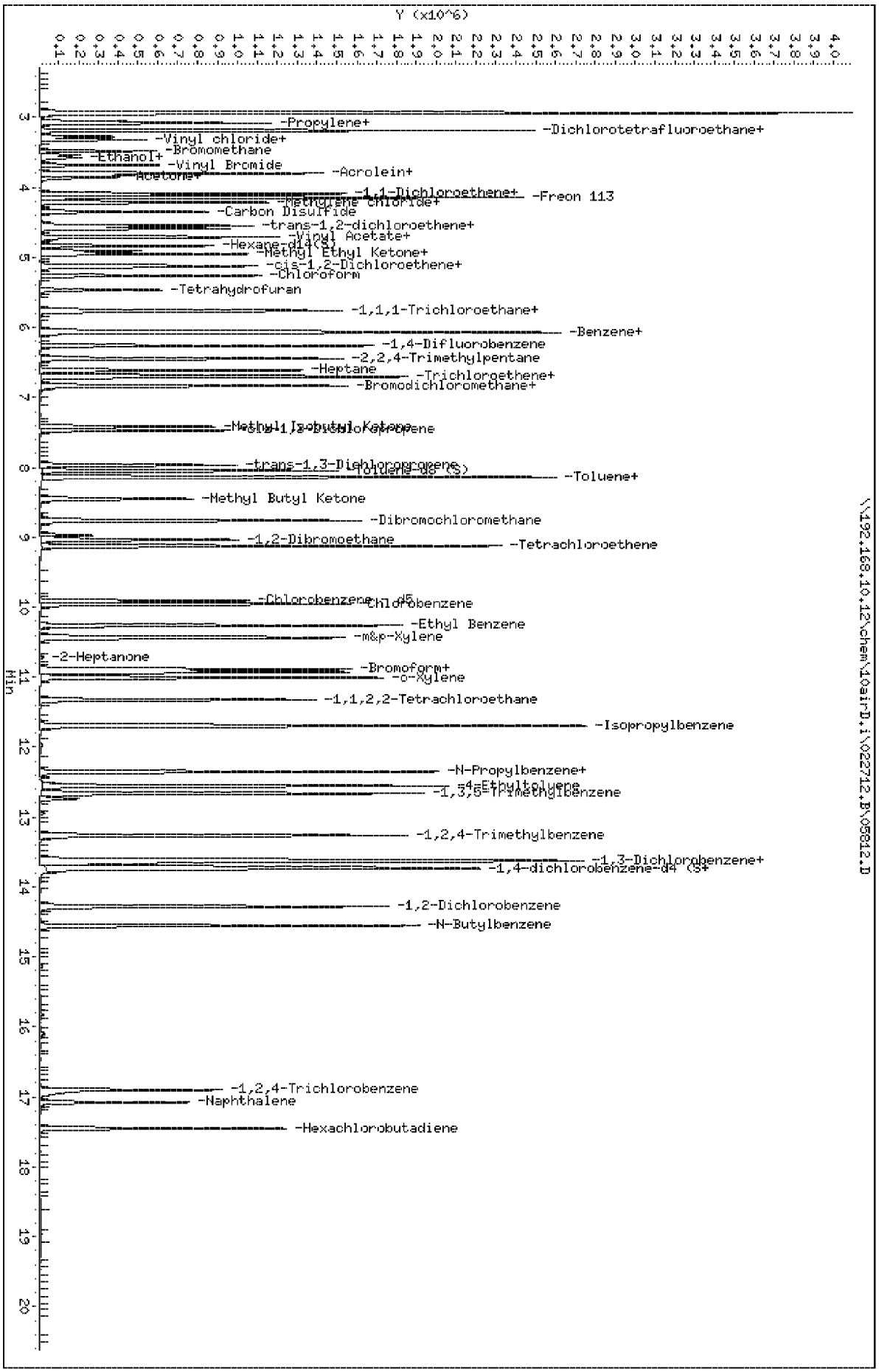
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Sample Matrix: GAS Fraction: VOA
Lab Smp Id: SSV
Level: LOW Operator: SK4
Data Type: MS DATA SampleType: LCS
SpikeList File: SSV.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info:

	SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
	1	Propylene	10.0	11.2	111.85	60-140
	2	Dichlorodifluorome	10.0	10.8	107.51	60-140
	3	Dichlorotetrafluor	10.0	10.6	106.49	60-140
	4	Chloromethane	10.0	9.64	96.43	60-140
	5	Vinyl chloride	10.0	11.2	112.01	60-140
	6	1,3-Butadiene	10.0	10.9	108.70	60-140
	7	Bromomethane	10.0	13.9	139.45	60-140
	8	Chloroethane	10.0	13.4	133.56	60-140
	9	Ethanol	10.0	13.6	135.62	60-140
	10	Vinyl Bromide	10.0	11.5	114.70	60-140
	12	Trichlorofluoromet	10.0	9.85	98.48	60-140
	13	Acetone	10.0	10.5	105.28	60-140
	14	Isopropyl Alcohol	10.0	8.07	80.72	60-140
	15	1,1-Dichloroethene	10.0	9.51	95.09	60-140
	18	Freon 113	10.0	11.4	113.68	60-140
	19	Methylene chloride	10.0	11.6	115.65	60-140
	21	Carbon Disulfide	10.0	15.8	157.89*	60-140
	22	trans-1,2-dichloro	10.0	11.0	109.99	60-140
	23	Methyl Tert Butyl	10.0	11.4	113.54	60-140
	25	1,1-Dichloroethane	10.0	10.4	104.14	60-140
	24	Vinyl Acetate	10.0	10.4	103.86	60-140
	27	Methyl Ethyl Keton	10.0	10.8	108.16	60-140
	28	n-Hexane	10.0	10.4	104.32	60-140
	29	cis-1,2-Dichloroet	10.0	12.2	122.25	60-140
	30	Ethyl Acetate	10.0	10.0	100.00	60-140
	32	Chloroform	10.0	10.2	101.72	60-140
	33	Tetrahydrofuran	10.0	10.4	103.72	60-140
	34	1,1,1-Trichloroeth	10.0	10.5	104.90	60-140
	35	1,2-Dichloroethane	10.0	9.87	98.73	60-140
	36	Benzene	10.0	11.4	113.55	60-140
	37	Carbon tetrachlori	10.0	10.0	100.08	60-140
	38	Cyclohexane	10.0	11.1	111.43	60-140
*	39	1,4-Difluorobenzen	0.000	10.0	0.00	0-0
	40	2,2,4-Trimethylpen	10.0	11.2	111.64	60-140
	41	Heptane	10.0	10.4	103.55	60-140
	42	1,2-Dichloropropan	10.0	11.5	115.12	60-140
	43	Trichloroethene	10.0	10.2	102.07	60-140
	45	Bromodichlorometha	10.0	10.3	103.40	60-140
	44	1,4-Dioxane	10.0	12.3	122.95	60-140
	46	Methyl Isobutyl Ke	10.0	9.95	99.46	60-140

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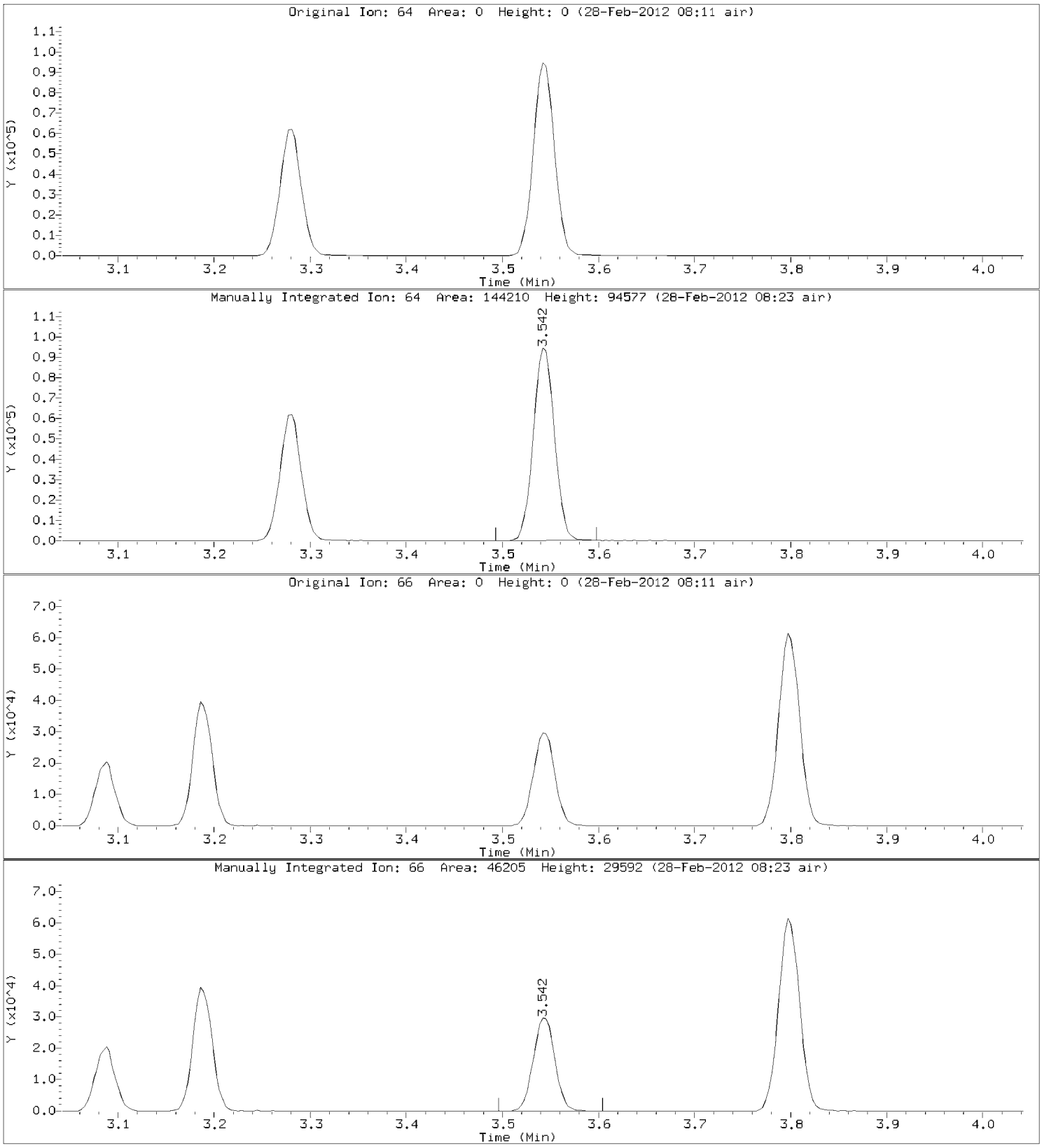
	SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
	47 cis-1,3-Dichloropr	10.0	9.33	93.28	60-140
	48 trans-1,3-Dichloro	10.0	11.0	110.16	60-140
	50 Toluene	10.0	10.4	104.31	60-140
	51 1,1,2-Trichloroeth	10.0	11.7	117.38	60-140
	52 Methyl Butyl Keton	10.0	10.9	109.14	60-140
	53 Dibromochlorometha	10.0	11.3	112.75	60-140
	54 1,2-Dibromoethane	10.0	11.0	110.26	60-140
	55 Tetrachloroethene	10.0	10.8	107.99	60-140
*	56 Chlorobenzene - d5	0.000	10.0	0.00	0-0
	57 Chlorobenzene	10.0	12.4	123.56	60-140
	58 Ethyl Benzene	10.0	10.6	106.56	60-140
	59 m&p-Xylene	10.0	10.8	108.17	60-140
	61 Bromoform	10.0	10.1	100.79	60-140
	62 Styrene	10.0	9.23	92.27	60-140
	63 o-Xylene	10.0	11.8	118.14	60-140
	64 1,1,2,2-Tetrachlor	10.0	9.93	99.31	60-140
	65 Isopropylbenzene	10.0	10.5	104.81	60-140
	66 N-Propylbenzene	10.0	11.1	110.89	60-140
	67 4-Ethyltoluene	10.0	12.0	120.56	60-140
	68 1,3,5-Trimethylben	10.0	10.3	103.08	60-140
	69 1,2,4-Trimethylben	10.0	10.5	104.82	60-140
	71 Sec- Butylbenzene	10.0	10.4	104.58	60-140
	70 1,3-Dichlorobenzen	10.0	9.96	99.65	60-140
	73 Benzyl Chloride	10.0	10.7	106.63	60-140
	74 1,4-Dichlorobenzen	10.0	10.0	99.96	60-140
	75 1,2-Dichlorobenzen	10.0	9.97	99.74	60-140
	76 N-Butylbenzene	10.0	10.1	100.97	60-140
	77 1,2,4-Trichloroben	10.0	8.73	87.30	60-140
	78 Naphthalene	10.0	5.25	52.54*	60-140
	79 Hexachlorobutadien	10.0	10.0	100.40	60-140

	SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
$	26 Hexane-d14(S)	10.0	9.92	99.16	70-130
$	49 Toluene-d8 (S)	10.0	9.63	96.26	70-130
$	72 1,4-dichlorobenzen	10.0	9.54	95.38	70-130


Y (x10^6)
Min
-Propylene+
-Dichlorotetrafluoroethane+
-Vinyl chloride+
-Bromomethane
-Ethanol+
-Vinyl Bromide
-Acrolein+
Acetone+
-1,1-Dichloroethene+
-Freon 113
-Methylene chloride+
-Carbon Disulfide
-trans-1,2-dichloroethene+
-Vinyl Acetate+
-Hexane-d14 (S)
-Methyl Ethyl Ketone+
-cis-1,2-Dichloroethene+
-Chloroform
-Tetrahydrofuran
-1,1,1-Trichloroethane+
-Benzene+
-1,4-Difluorobenzene
-2,2,4-Trimethylpentane
-Heptane
-Trichloroethene+
-Bromodichloromethane+
-Methyl Isobutyl Ketone
-trans-1,3-Dichloropropene
Toluene-d8 (S)
-Toluene+
-Methyl Butyl Ketone
-Dibromochloromethane
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene-d5
Chlorobenzene
-Ethyl Benzene
-m&p-Xylene
-2-Heptanone
-Bromoform+
-o-Xylene
-1,1,2,2-Tetrachloroethane
-Isopropylbenzene
-N-Propylbenzene+
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene+
-1,4-dichlorobenzene-d4 (S+
-1,2-Dichlorobenzene
-N-Butylbenzene
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene
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Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32

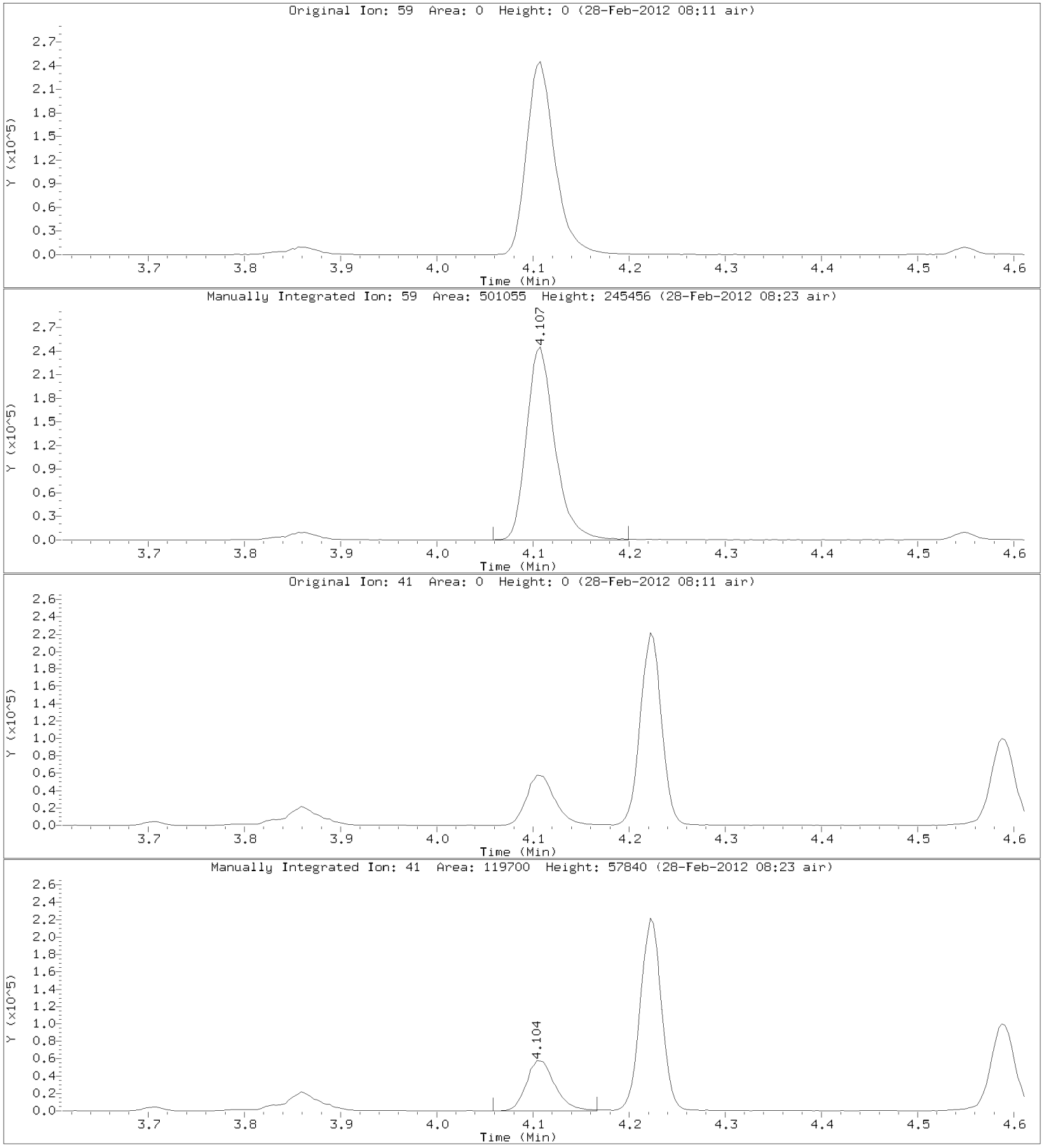
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Instrument: 10airD.i
Lab Sample ID: SSV

Compound: Chloroethane
CAS Number: 75-00-3



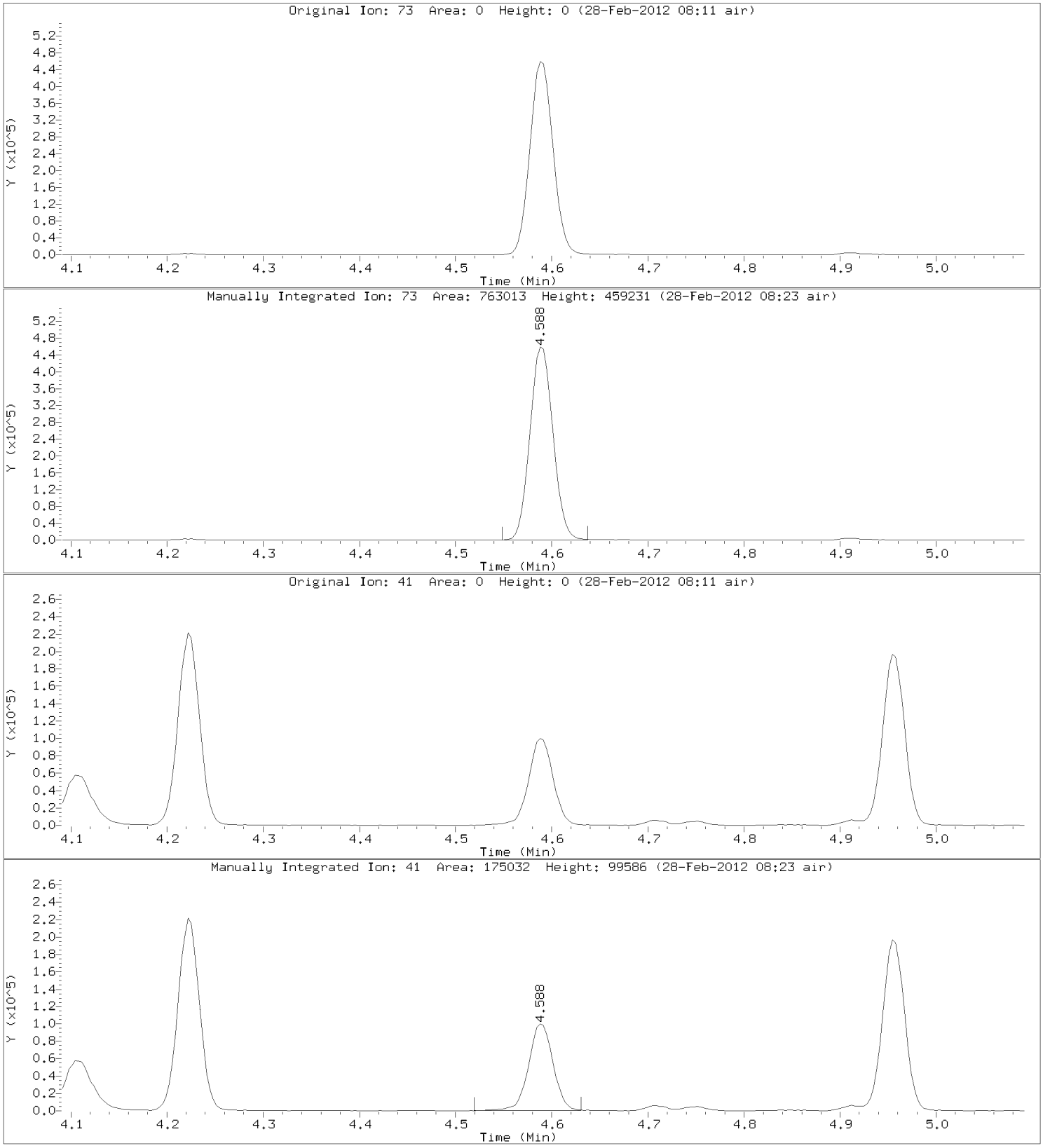
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Instrument: 10airD.i
Lab Sample ID: SSV

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



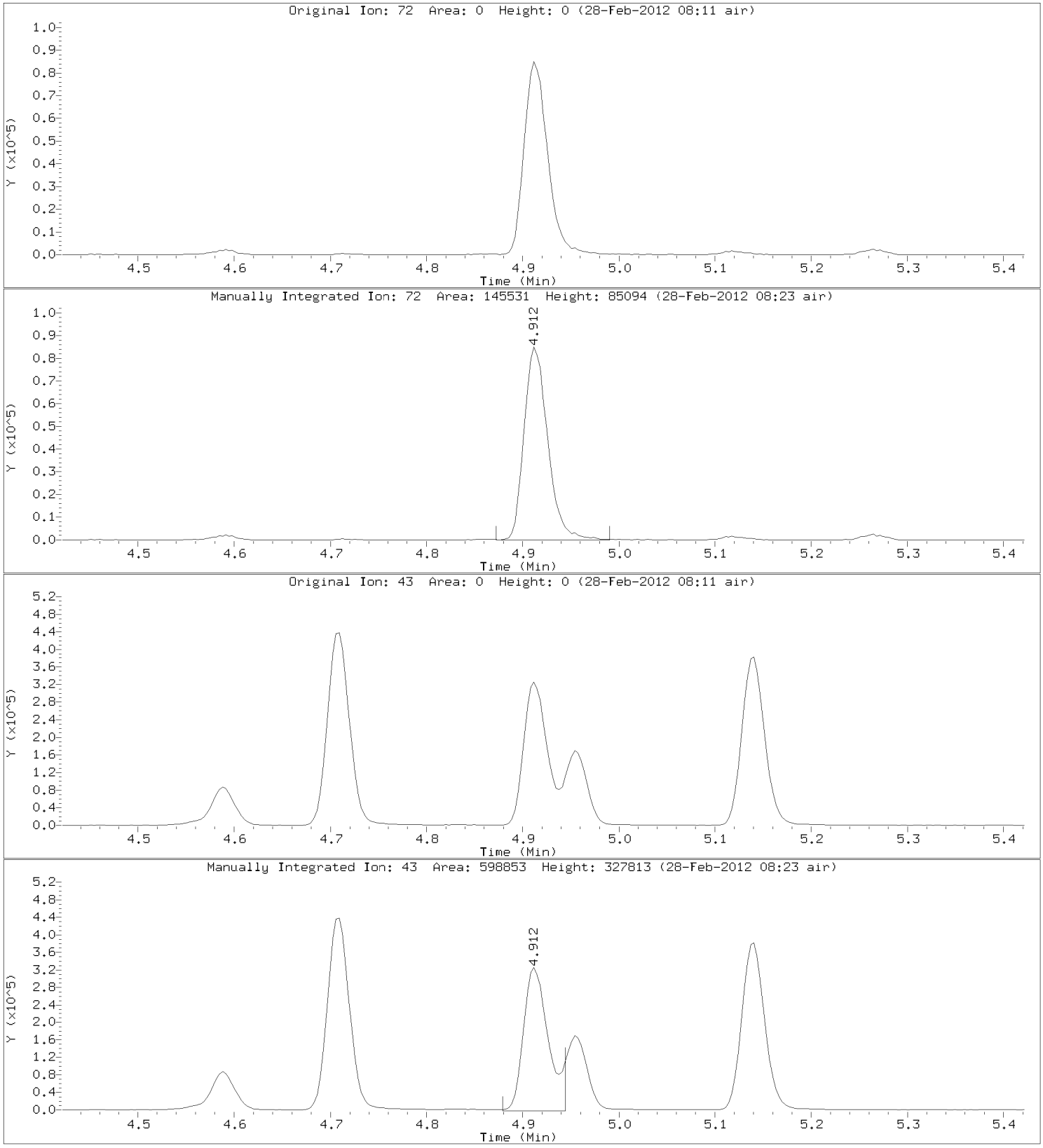
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Lab Sample ID: SSV

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



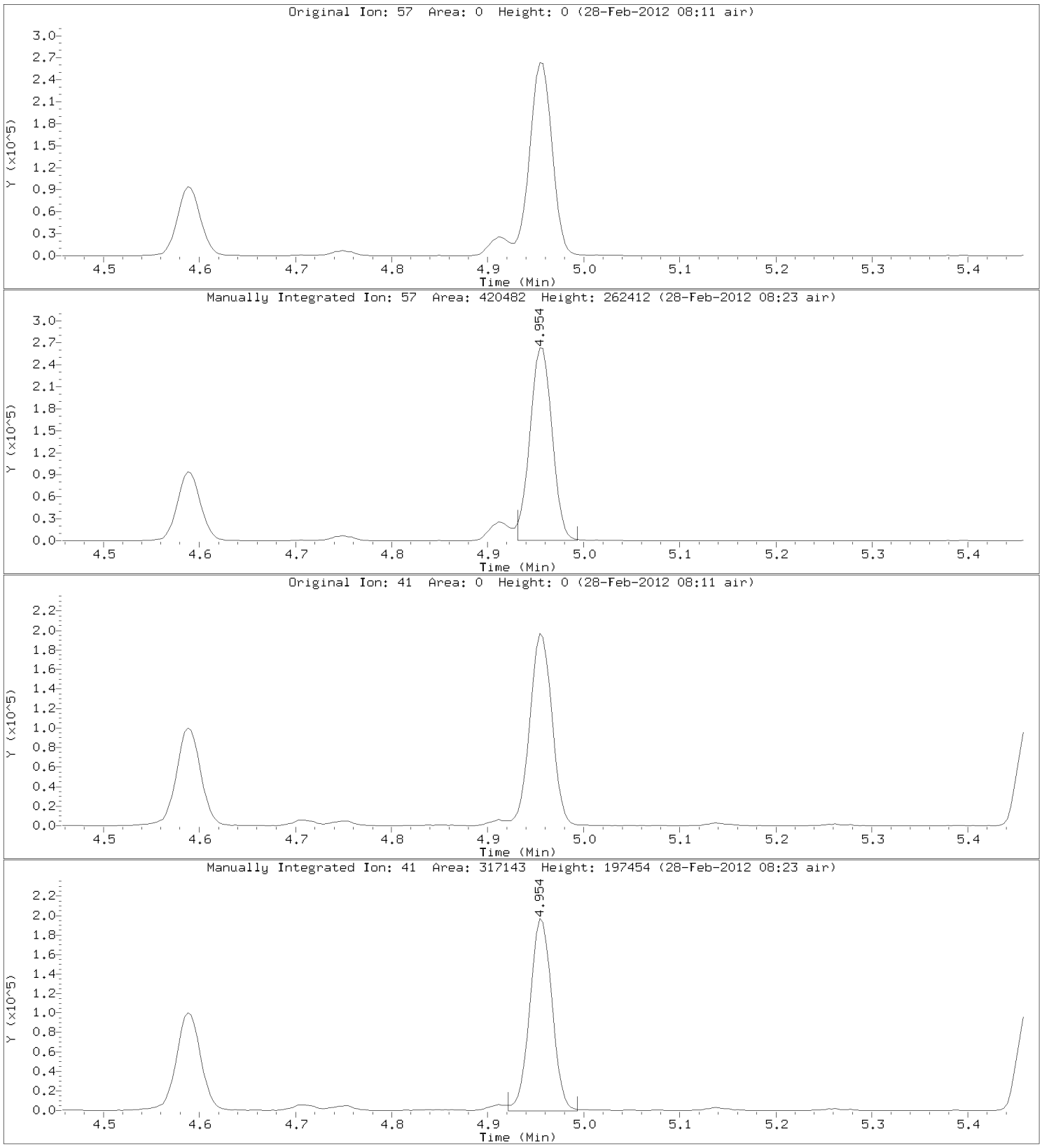
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Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

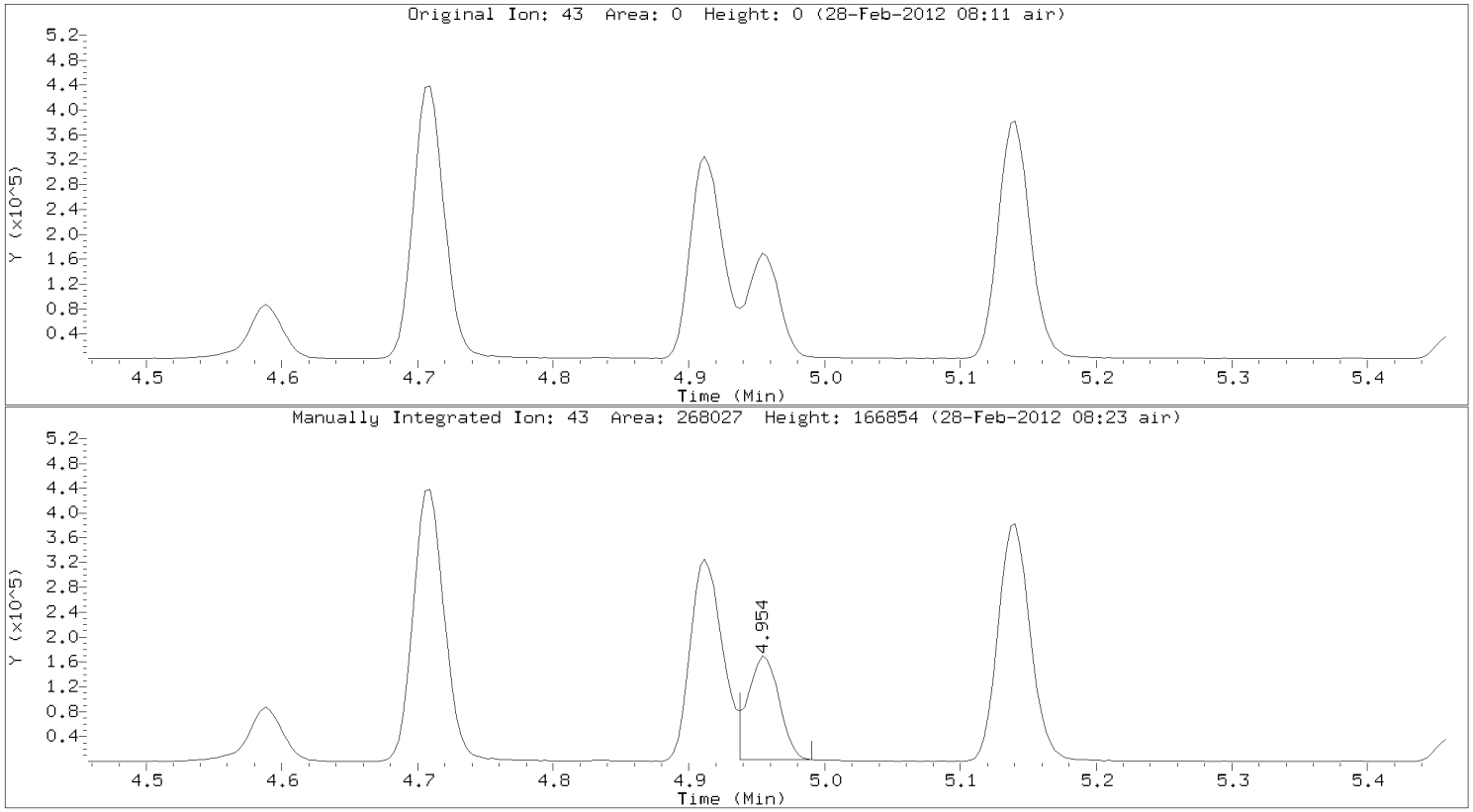


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Instrument: 10airD.i
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Compound: n-Hexane
CAS Number: 110-54-3

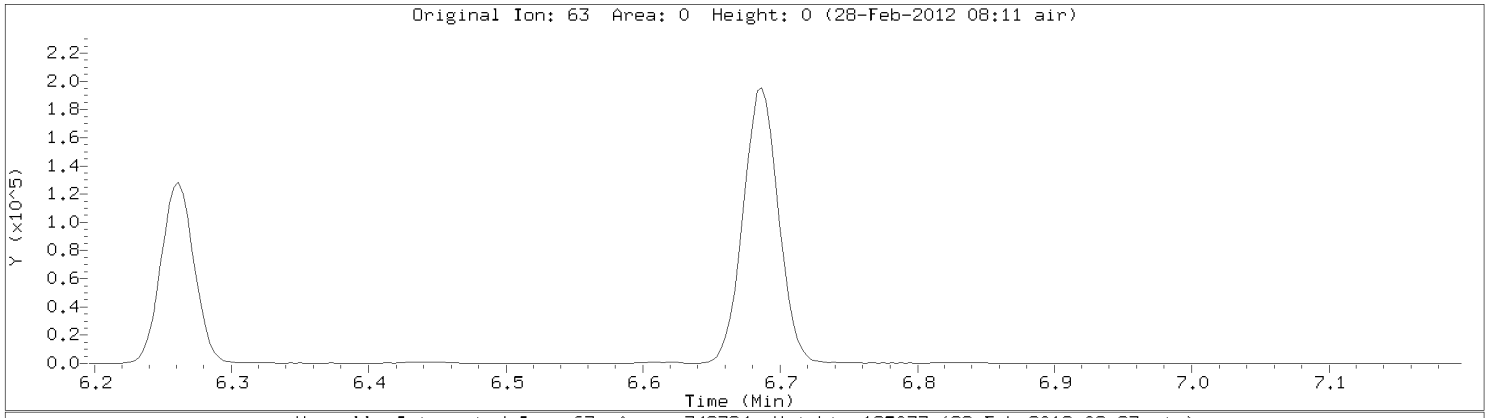


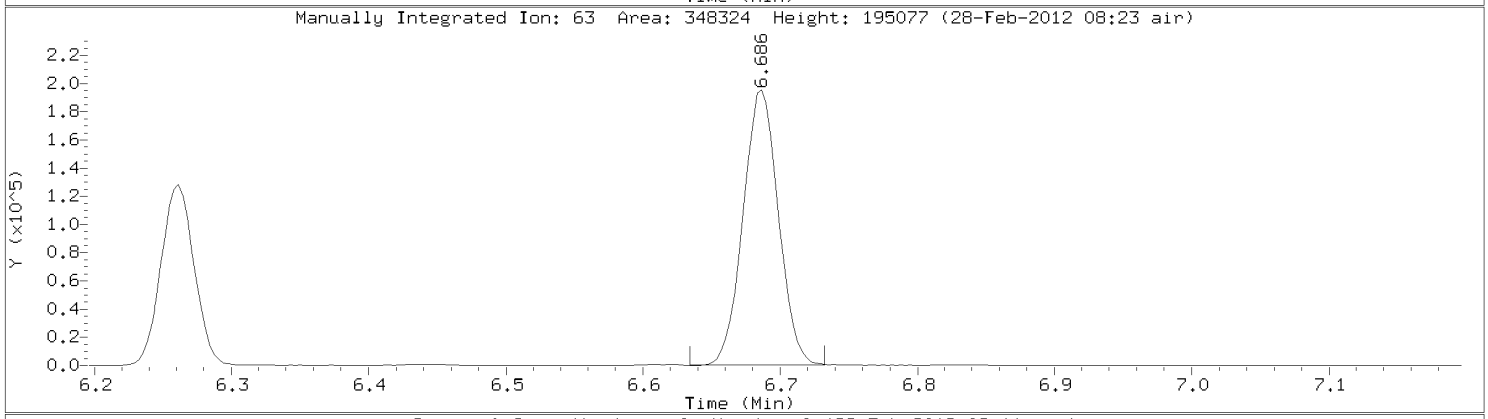
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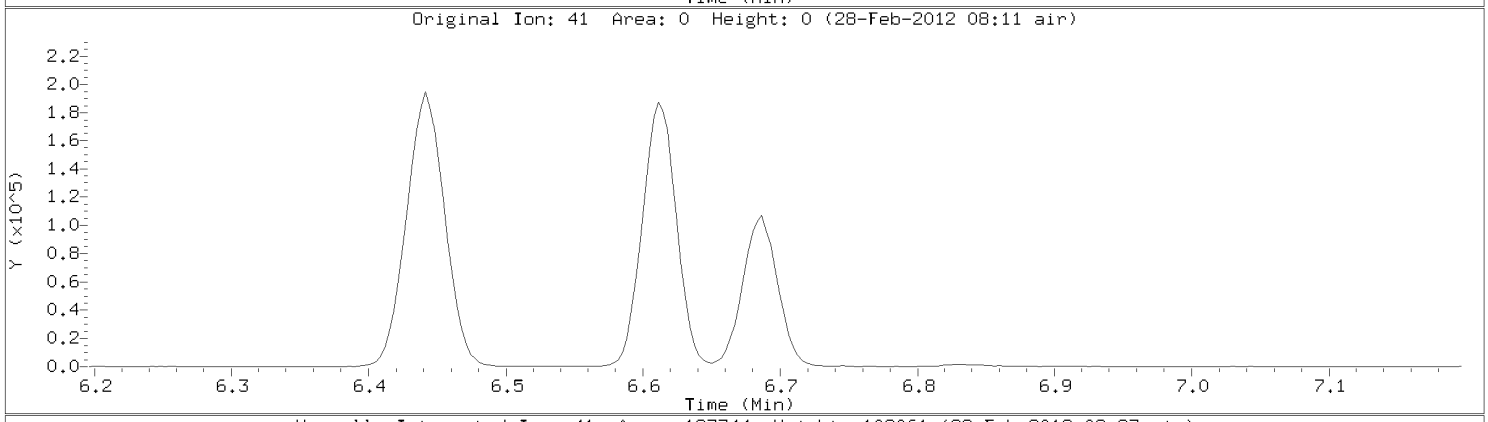


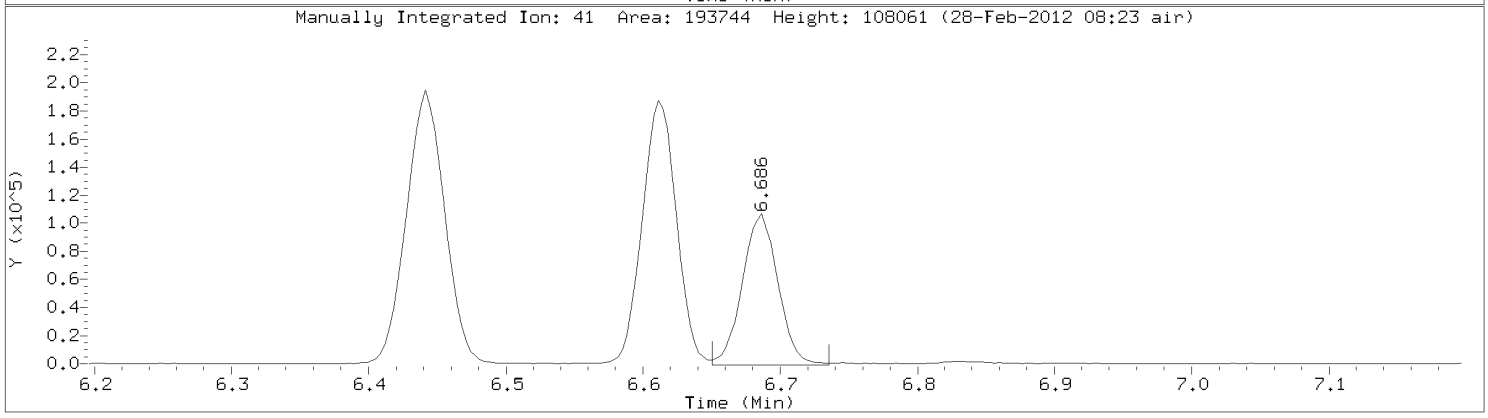
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Injection Date: 27-FEB-2012 17:40
Instrument: 10airD.i
Lab Sample ID: SSV

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

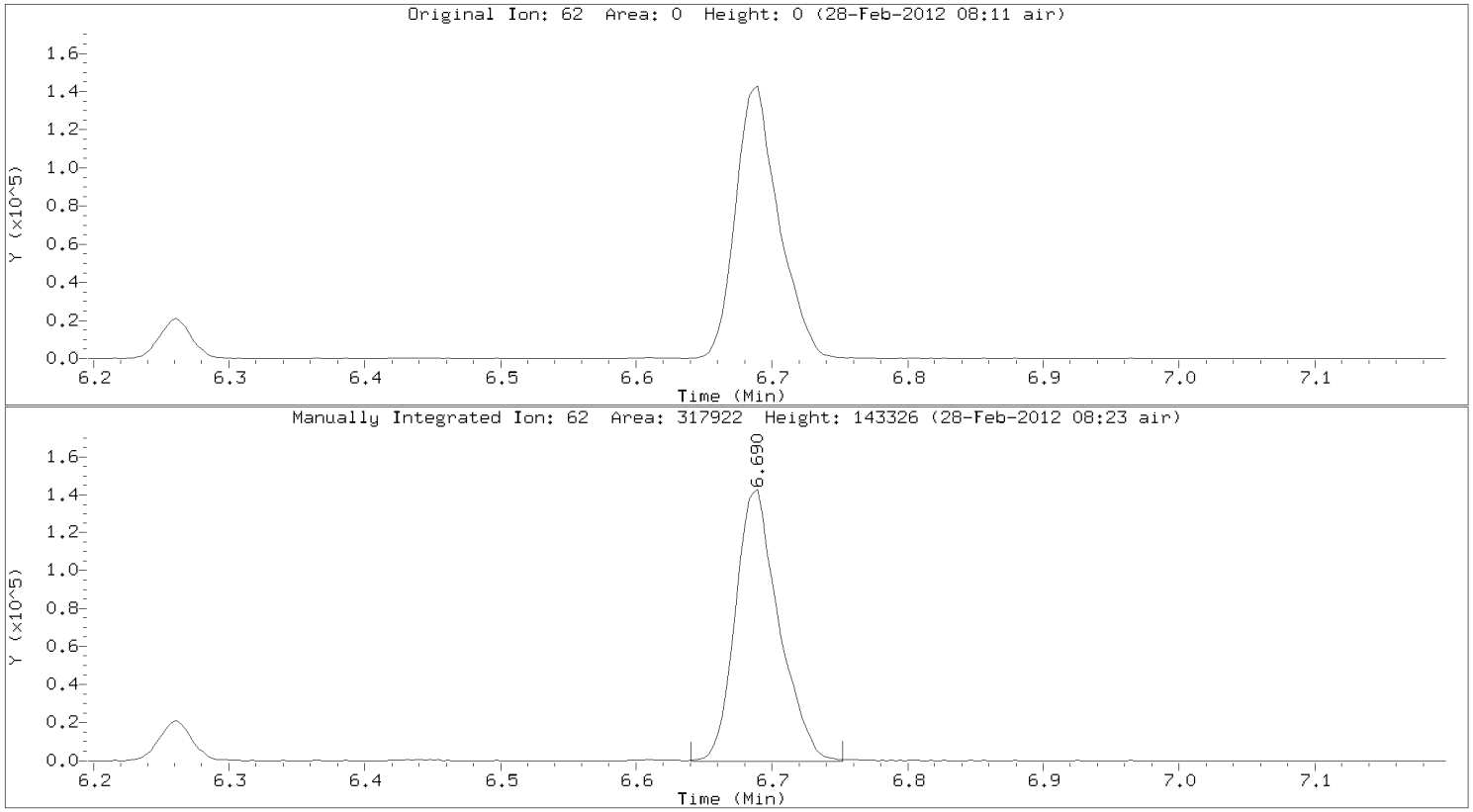






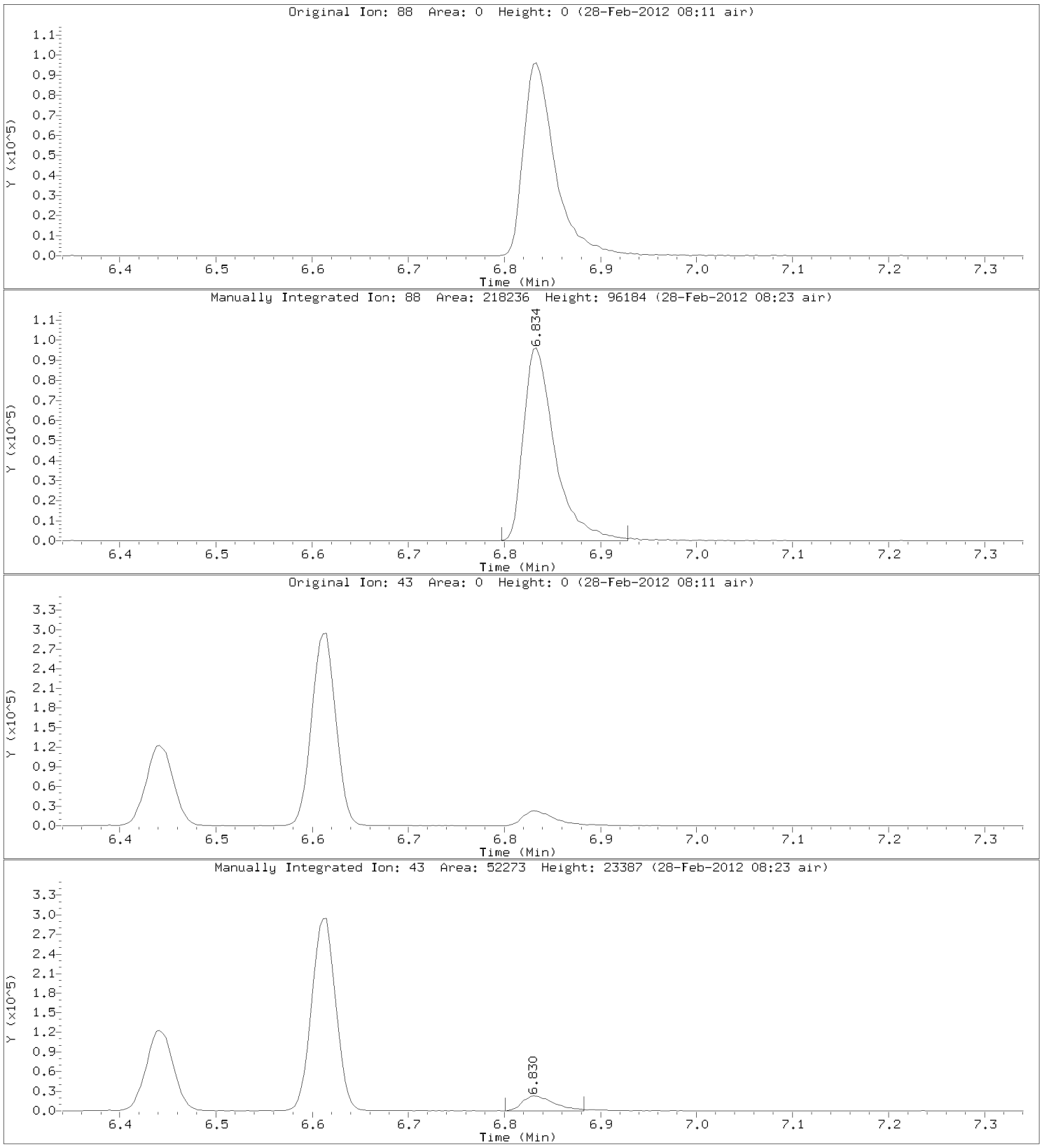


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Lab Sample ID: SSV



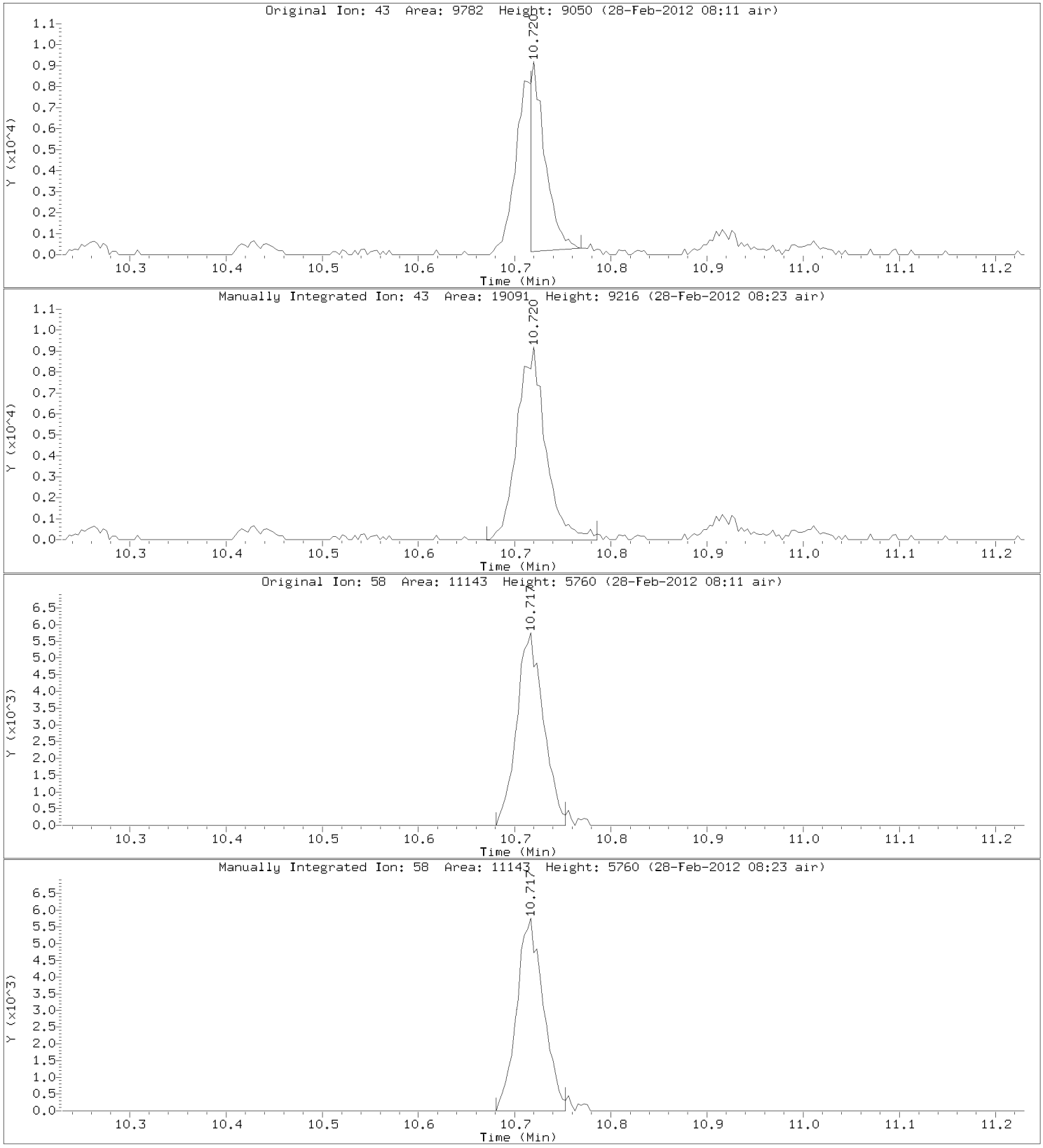
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Instrument: 10airD.i
Lab Sample ID: SSV

Compound: 1,4-Dioxane
CAS Number: 123-91-1



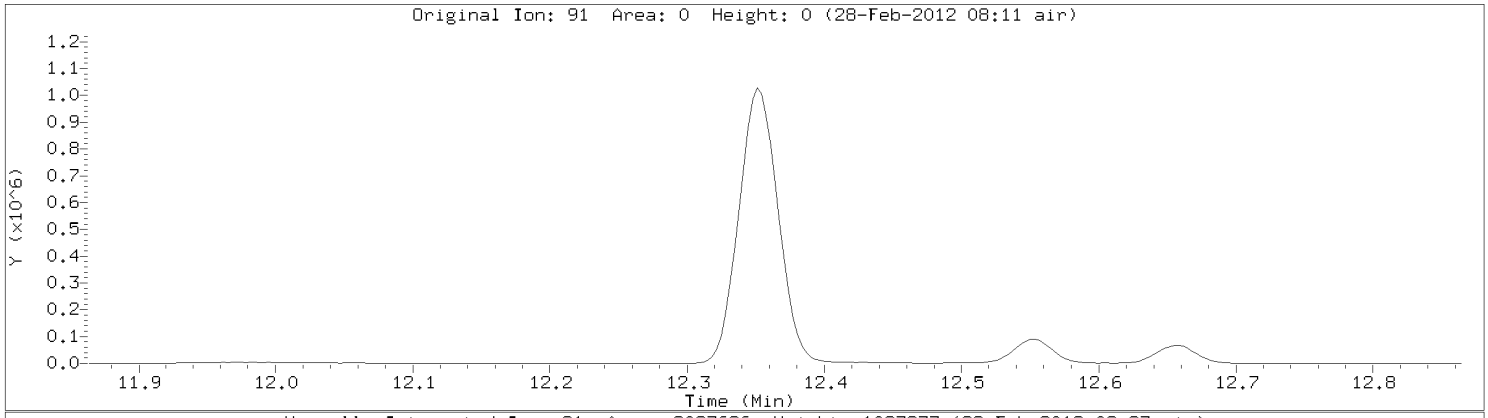
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Injection Date: 27-FEB-2012 17:40
Instrument: 10airD.i
Lab Sample ID: SSV

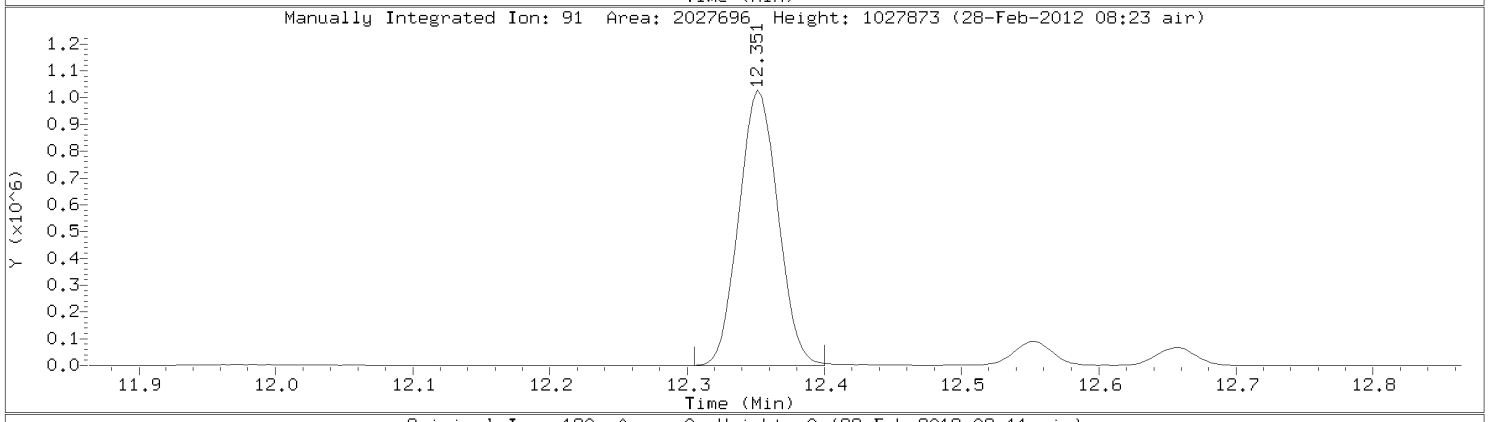
Compound: 2-Heptanone
CAS Number: 110-43-0

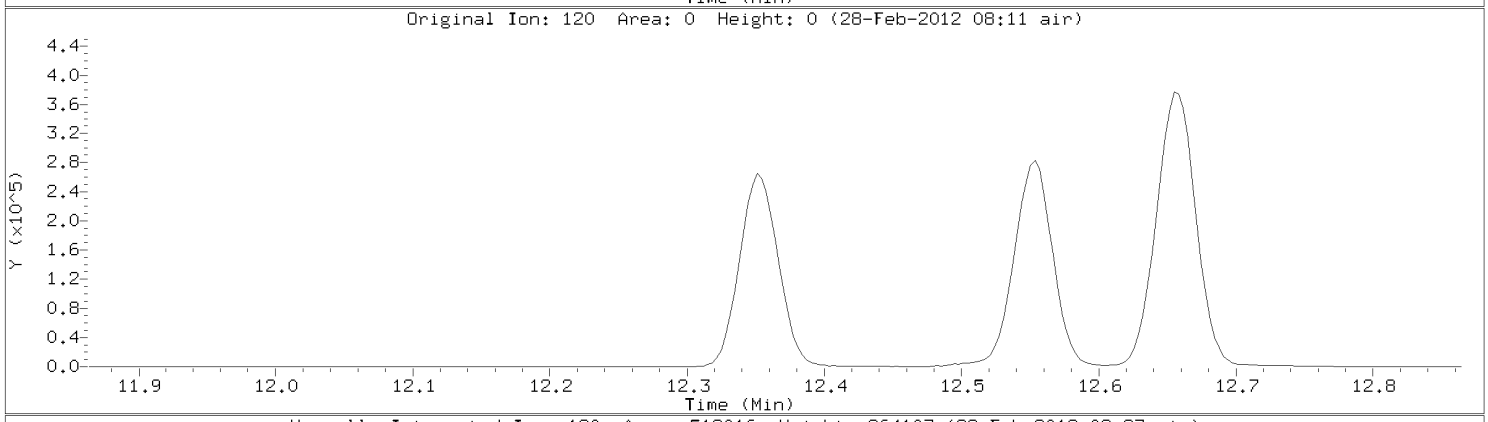


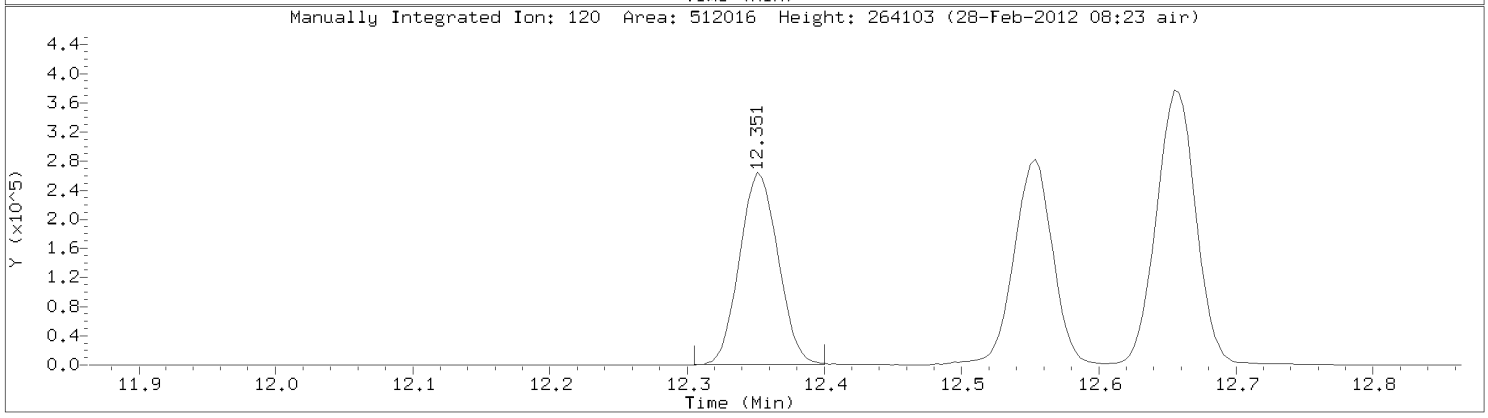
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05812.D
Injection Date: 27-FEB-2012 17:40
Instrument: 10airD.i
Lab Sample ID: SSV

Compound: N-Propylbenzene
CAS Number: 103-65-1









5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10183444
Lab File ID: 04501.D BFB Injection Date: 02/14/2012
Instrument ID: 10AIRB BFB Injection Time: 13:02
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	16.54	
75	30.00 - 66.00% of mass 95	45.29	
96	5.00 - 9.00% of mass 95	7.00	
173	Less than 2.00% of mass 174	0.50	(0.55)
174	50.00 - 120.00% of mass 95	92.11	
175	4.00 - 9.00% of mass 174	6.10	(6.62)
176	93.00 - 101.00% of mass 174	86.43	(93.83)
177	5.00 - 9.00% of mass 176	5.25	(6.07)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	ICAL18137-59-15	ICAL18137-59-	04502.D	02/14/2012	13:59
2	ICAL28137-59-15	ICAL28137-59-	04503.D	02/14/2012	14:30
3	ICAL38137-59-15	ICAL38137-59-	04504.D	02/14/2012	15:01
4	ICAL48137-59-15	ICAL48137-59-	04505.D	02/14/2012	15:33
5	ICAL58137-59-18	ICAL58137-59-	04506.D	02/14/2012	16:04
6	ICAL68137-59-18	ICAL68137-59-	04507.D	02/14/2012	16:35
7	ICAL78137-59-18	ICAL78137-59-	04508.D	02/14/2012	17:08
8	SSV8137-52-17 (LCS)	SSV8137-52-17	04509.D	02/14/2012	17:39

Data File: \\192.168.10.12\chem\10airB.i\021412.b\04501.D

Page 1

Date : 14-FEB-2012 13:02

Client ID: BFB

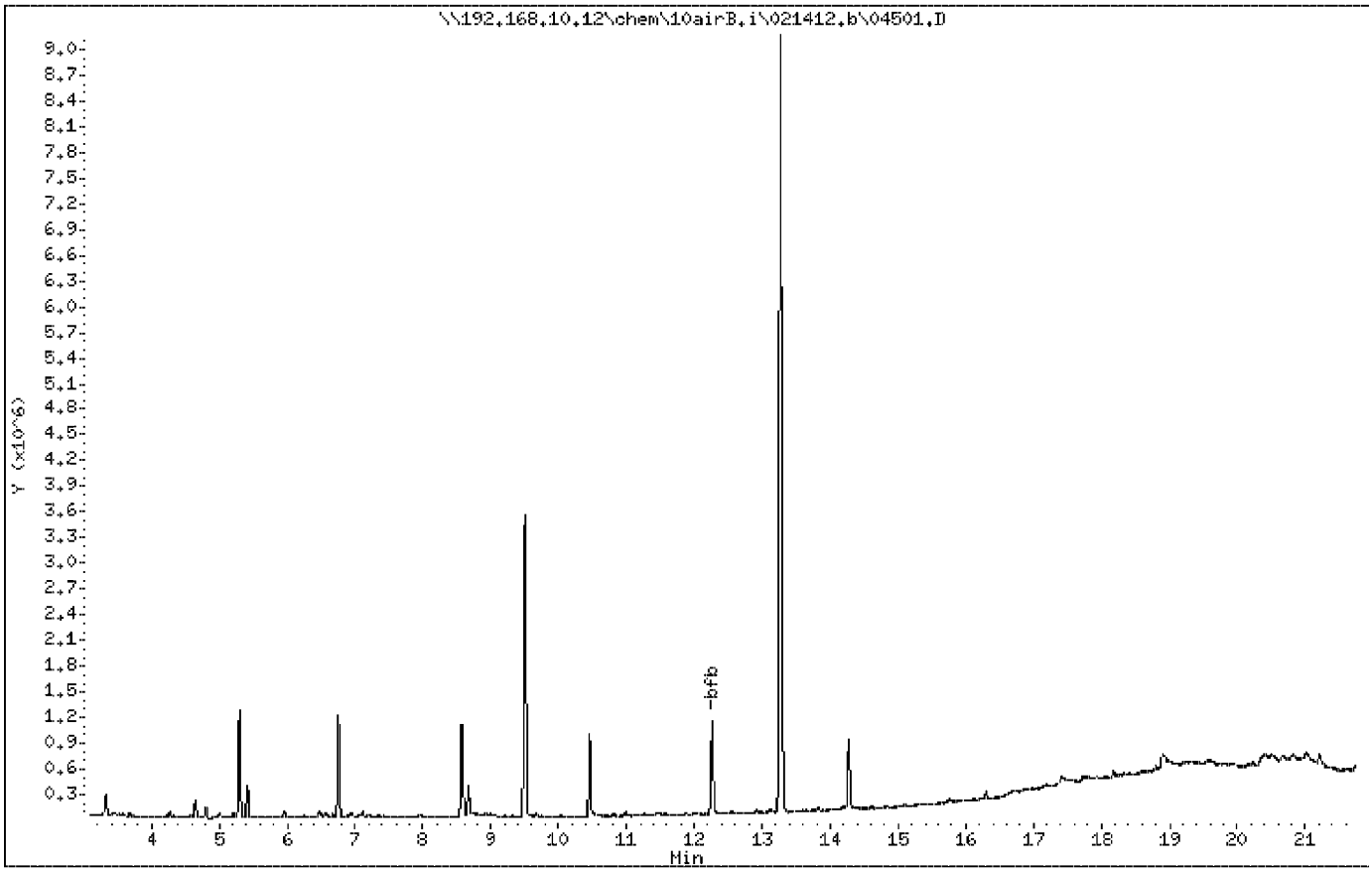
Instrument: 10airB.i

Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\021412.b\04501.D

Date : 14-FEB-2012 13:02

Client ID: BFB

Instrument: 10airB.i

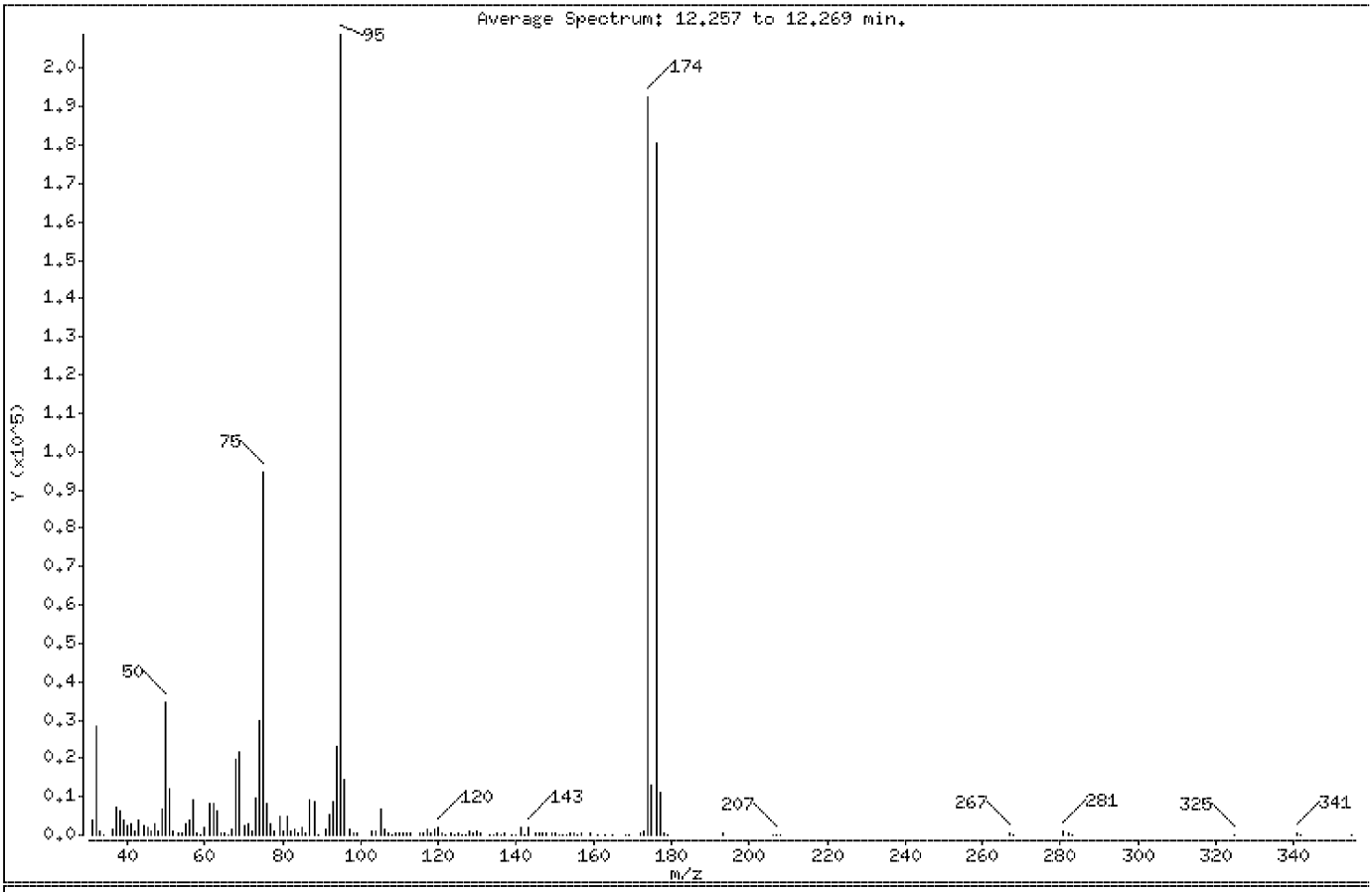
Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.54
75	30.00 - 66.00% of mass 95	45.29
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.50 (0.55)
174	50.00 - 120.00% of mass 95	92.11
175	4.00 - 9.00% of mass 174	6.10 (6.62)
176	93.00 - 101.00% of mass 174	86.43 (93.83)
177	5.00 - 9.00% of mass 176	5.25 (6.07)

Date : 14-FEB-2012 13:02

Client ID: BFB Instrument: 10airB.i

Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 04501.D
Spectrum: Average Spectrum: 12.257 to 12.269 min.
Location of Maximum: 95.00
Number of points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	3938	69.00	21808	110.00	288	151.00	179
32.00	28296	70.00	2515	111.00	555	152.00	144
33.00	747	71.00	2792	112.00	286	153.00	187
34.00	78	72.00	1028	113.00	379	154.00	306
36.00	1228	73.00	9467	115.00	401	155.00	718
37.00	7086	74.00	30000	116.00	680	156.00	57
38.00	6401	75.00	94592	117.00	1263	157.00	303
39.00	3774	76.00	8291	118.00	686	159.00	344
40.00	2482	77.00	2709	119.00	1211	161.00	233
41.00	2679	78.00	1095	120.00	1916	163.00	238
42.00	797	79.00	4709	121.00	387	165.00	125
43.00	3692	80.00	1106	122.00	157	168.00	60
44.00	2172	81.00	4763	123.00	244	169.00	136
45.00	1754	82.00	1111	124.00	160	172.00	640
46.00	861	83.00	1420	125.00	335	173.00	1053
47.00	2799	84.00	622	126.00	237	174.00	192384
48.00	939	85.00	1752	127.00	109	175.00	12741
49.00	6545	86.00	404	128.00	864	176.00	180480
50.00	34536	87.00	8974	129.00	412	177.00	10957
51.00	11850	88.00	8447	130.00	768	178.00	336
52.00	736	89.00	76	131.00	271	179.00	73
53.00	495	91.00	1253	133.00	170	193.00	244
54.00	313	92.00	5423	134.00	59	206.00	156
55.00	3045	93.00	8720	135.00	539	207.00	213
56.00	3669	94.00	23192	136.00	111	208.00	59
57.00	9274	95.00	208832	137.00	460	267.00	273
58.00	572	96.00	14617	139.00	132	268.00	77
59.00	120	97.00	1372	140.00	145	281.00	747
60.00	1850	98.00	331	141.00	1783	282.00	254
61.00	8231	99.00	291	142.00	185	283.00	123
62.00	7985	103.00	804	143.00	2070	325.00	63
63.00	6143	104.00	853	145.00	300	341.00	274
64.00	647	105.00	6769	146.00	305	342.00	125
65.00	646	106.00	1213	147.00	350	355.00	105
66.00	182	107.00	427	148.00	474		

Date : 14-FEB-2012 13:02

Client ID: BFB Instrument: 10airB.i

Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 04501.D
Spectrum: Average Spectrum: 12.257 to 12.269 min.
Location of Maximum: 95.00
Number of points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
67.00	1435	108.00	77	149.00	368		
68.00	19672	109.00	669	150.00	292		

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10183444
Lab File ID: 05801BFB.D BFB Injection Date: 02/27/2012
Instrument ID: 10AIRD BFB Injection Time: 07:22
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	16.92	
75	30.00 - 66.00% of mass 95	42.48	
96	5.00 - 9.00% of mass 95	6.78	
173	Less than 2.00% of mass 174	0.50	(0.48)
174	50.00 - 120.00% of mass 95	104.39	
175	4.00 - 9.00% of mass 174	7.40	(7.09)
176	93.00 - 101.00% of mass 174	100.38	(96.16)
177	5.00 - 9.00% of mass 176	6.61	(6.58)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	ICAL1	ICAL1	05805.D	02/27/2012	12:18
2	ICAL2	ICAL2	05806.D	02/27/2012	12:47
3	ICAL3	ICAL3	05807.D	02/27/2012	13:17
4	ICAL4	ICAL4	05808.D	02/27/2012	13:46
5	ICAL5	ICAL5	05809.D	02/27/2012	14:16
6	ICAL6	ICAL6	05810.D	02/27/2012	14:45
7	ICAL7	ICAL7	05811.D	02/27/2012	15:15
8	SSV (LCS)	SSV	05812.D	02/27/2012	17:40
9	LCS for HBN 199413 [AIR/	1146107	05813LL.D	02/27/2012	18:09
10	LCS (LCS)	LCS	05813.D	02/27/2012	18:09
11	BLANK for HBN 199413 [AI	1146106	05815LL.D	02/27/2012	19:08
12	BLANK (BLK)	BLANK	05815.D	02/27/2012	19:08
13	S-5	5058707005	05820.D	02/27/2012	21:36
14	S-5(1142707DUP)	1146413-DUP	05821.D	02/27/2012	22:06

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05801BFB.D

Date : 27-FEB-2012 07:22

Client ID: BFB

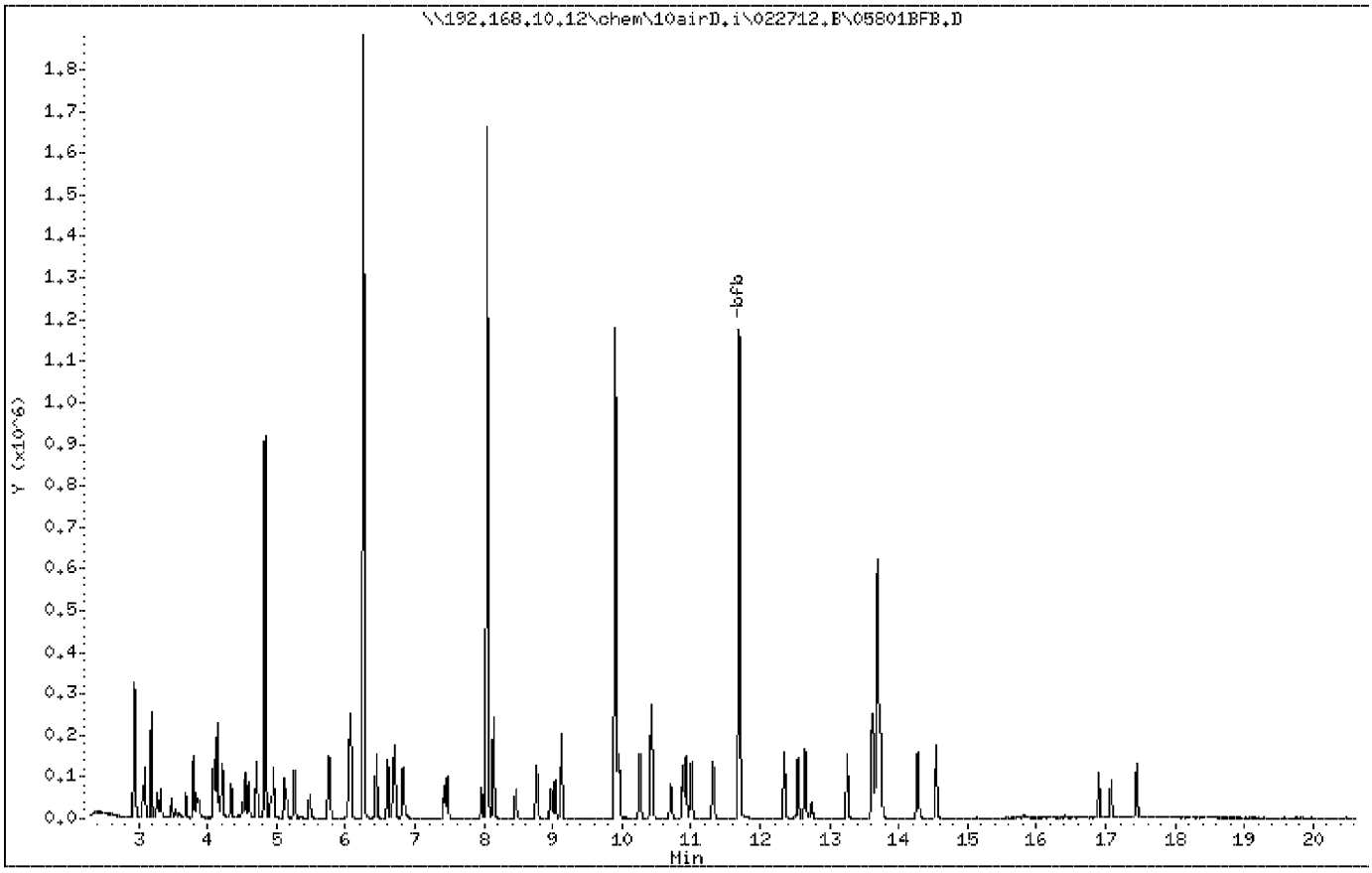
Instrument: 10airD.i

Sample Info:

Operator: SK4

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05801BFB.D

Date : 27-FEB-2012 07:22

Client ID: BFB

Instrument: 10airD.i

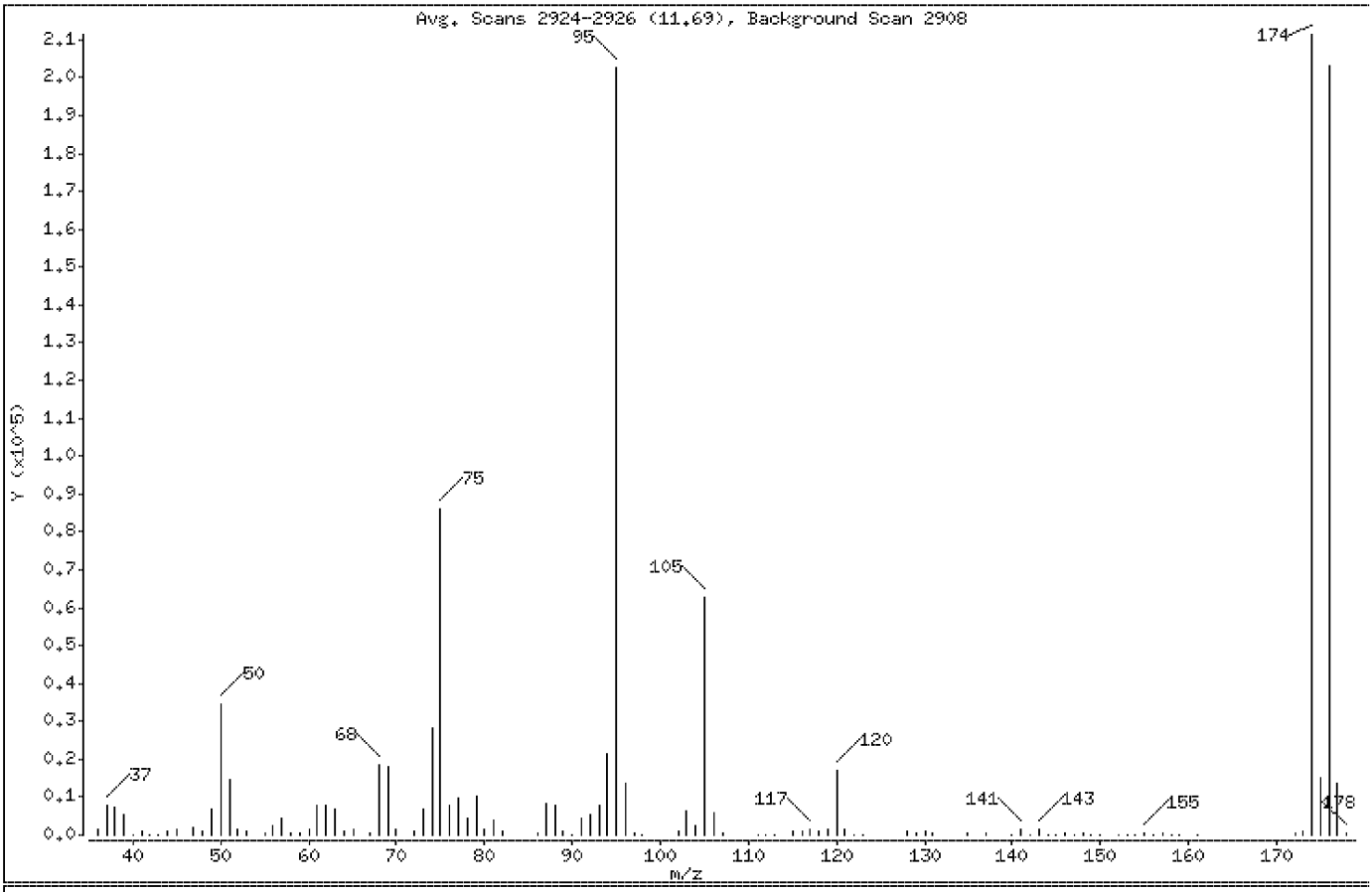
Sample Info:

Operator: SK4

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.92
75	30.00 - 66.00% of mass 95	42.48
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.50 (0.48)
174	50.00 - 120.00% of mass 95	104.39
175	4.00 - 9.00% of mass 174	7.40 (7.09)
176	93.00 - 101.00% of mass 174	100.38 (96.16)
177	5.00 - 9.00% of mass 176	6.61 (6.58)

Date : 27-FEB-2012 07:22

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: SK4

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 05801BFB.D
Spectrum: Avg. Scans 2924-2926 (11.69), Background Scan 2908
Location of Maximum: 174.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1297	65.00	1459	97.00	385	141.00	1639
37.00	7733	67.00	575	98.00	58	142.00	57
38.00	7439	68.00	18480	102.00	804	143.00	1553
39.00	5357	69.00	18016	103.00	6165	144.00	141
40.00	212	70.00	1231	104.00	2265	145.00	108
41.00	1152	72.00	773	105.00	62896	146.00	355
42.00	77	73.00	6870	106.00	6017	147.00	128
43.00	91	74.00	28184	107.00	345	148.00	471
44.00	753	75.00	86016	111.00	50	149.00	51
45.00	1582	76.00	7666	112.00	113	150.00	136
47.00	1831	77.00	9568	113.00	115	152.00	53
48.00	950	78.00	4403	115.00	993	153.00	227
49.00	6735	79.00	10207	116.00	827	154.00	89
50.00	34272	80.00	1493	117.00	1614	155.00	552
51.00	14556	81.00	3915	118.00	1027	156.00	56
52.00	1506	82.00	896	119.00	1317	157.00	330
53.00	790	86.00	426	120.00	17168	158.00	67
55.00	532	87.00	8225	121.00	1479	159.00	166
56.00	2306	88.00	7639	122.00	50	161.00	218
57.00	4536	89.00	741	123.00	54	172.00	311
58.00	527	90.00	125	128.00	885	173.00	1020
59.00	377	91.00	4357	129.00	381	174.00	211392
60.00	1494	92.00	5134	130.00	802	175.00	14988
61.00	7614	93.00	8018	131.00	368	176.00	203264
62.00	7544	94.00	21216	135.00	296	177.00	13378
63.00	6922	95.00	202496	137.00	278	178.00	393
64.00	761	96.00	13730	140.00	51		

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

TUNE8137-61-8

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10183444
Lab File ID: 05401.D BFB Injection Date: 02/23/2012
Instrument ID: 10AIRB BFB Injection Time: 10:58
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	19.03	
75	30.00 - 66.00% of mass 95	47.95	
96	5.00 - 9.00% of mass 95	6.75	
173	Less than 2.00% of mass 174	0.66	(0.75)
174	50.00 - 120.00% of mass 95	87.98	
175	4.00 - 9.00% of mass 174	6.02	(6.84)
176	93.00 - 101.00% of mass 174	86.64	(98.48)
177	5.00 - 9.00% of mass 176	5.53	(6.38)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 199117 [AIR/	1144379	05402A.D	02/23/2012	11:29
2	CCV8137-59-18	CCV8137-59-18	05402.D	02/23/2012	11:29
3	BLANK for HBN 199117 [AI	1144378	05404A.D	02/23/2012	12:56
4	S-1	5058707001	05405.D	02/23/2012	14:02
5	S-1(1142702DUP)	1144380-DUP	05406.D	02/23/2012	14:33
6	S-2	5058707002	05407.D	02/23/2012	15:06
7	S-3	5058707003	05408.D	02/23/2012	15:37
8	S-4	5058707004	05409.D	02/23/2012	16:08
9	S-5	5058707005	05410.D	02/23/2012	16:42

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05401.D

Page 1

Date : 23-FEB-2012 10:58

Client ID: BFB

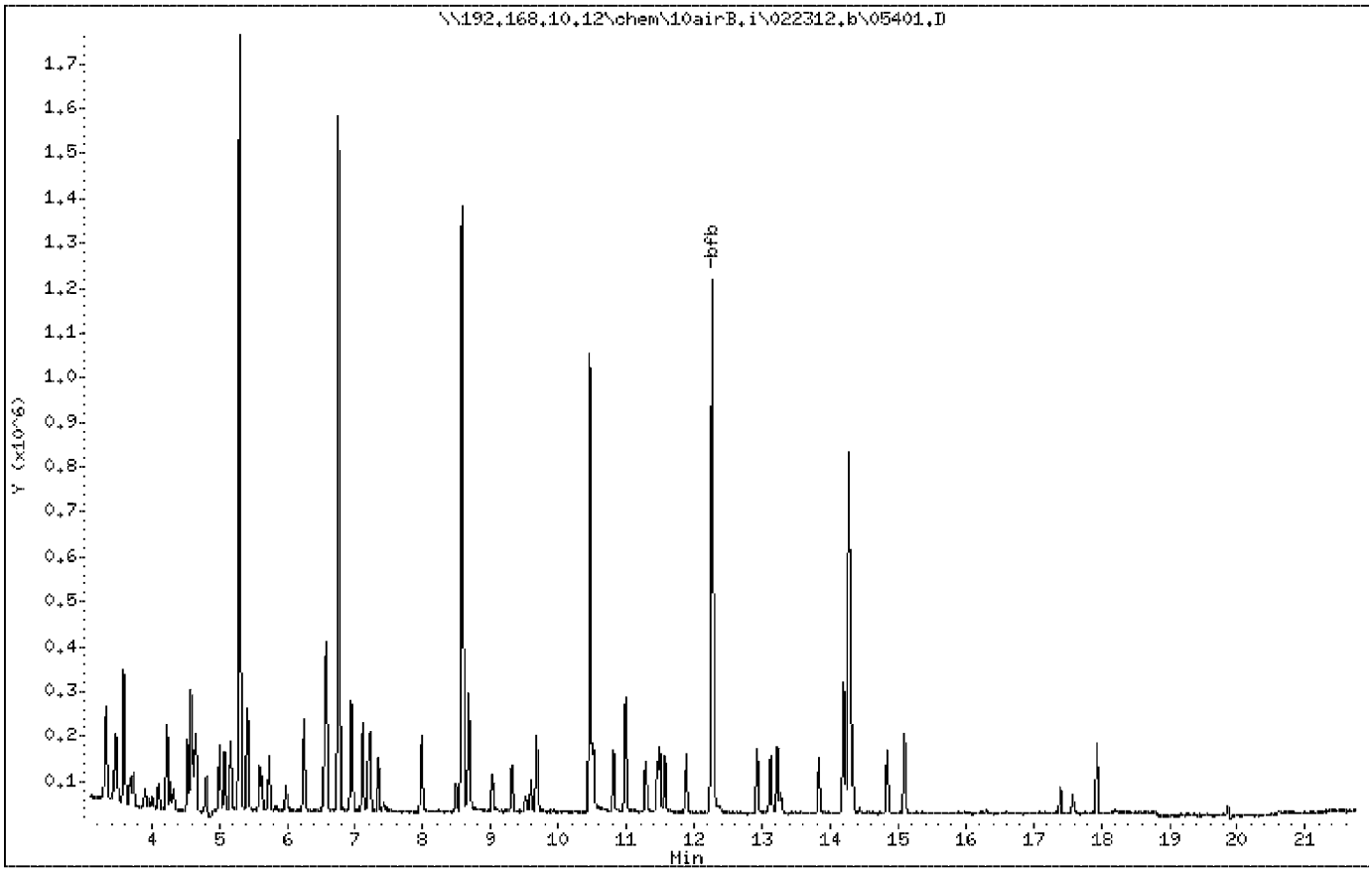
Instrument: 10airB.i

Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05401.D

Date : 23-FEB-2012 10:58

Client ID: BFB

Instrument: 10airB.i

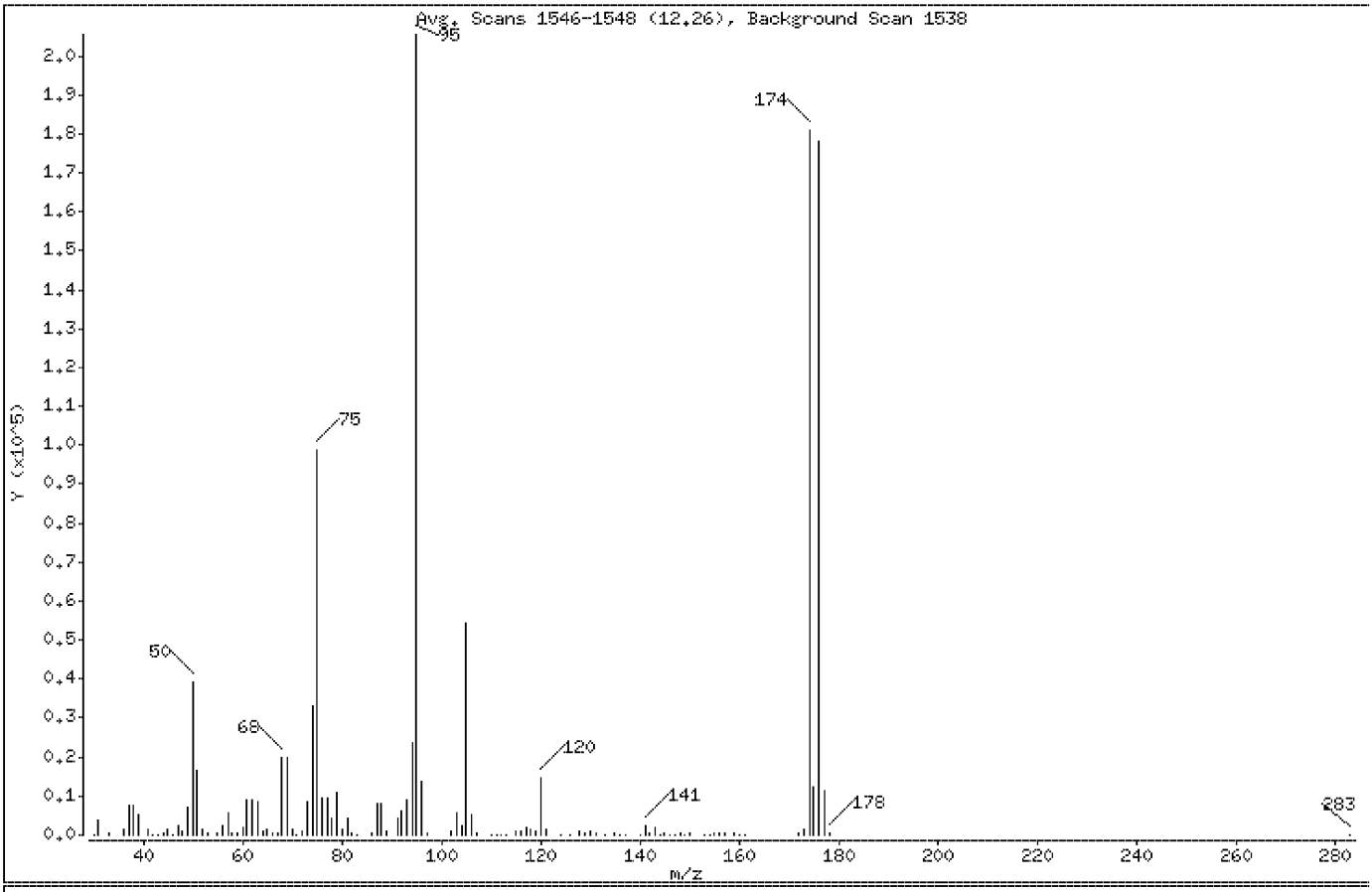
Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.03
75	30.00 - 66.00% of mass 95	47.95
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.66 (0.75)
174	50.00 - 120.00% of mass 95	87.98
175	4.00 - 9.00% of mass 174	6.02 (6.84)
176	93.00 - 101.00% of mass 174	86.64 (98.48)
177	5.00 - 9.00% of mass 176	5.53 (6.38)

Date : 23-FEB-2012 10:58

Client ID: BFB Instrument: 10airB.i

Sample Info: Tune 8137-61-8

Operator: RTP

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 05401.D
Spectrum: Avg. Scans 1546-1548 (12.26), Background Scan 1538
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	50	64.00	977	96.00	13874	140.00	72
31.00	3768	65.00	1554	97.00	528	141.00	2283
33.00	705	66.00	274	102.00	799	142.00	288
36.00	1190	67.00	524	103.00	5857	143.00	2084
37.00	7402	68.00	19768	104.00	2522	144.00	52
38.00	7477	69.00	19680	105.00	54520	145.00	313
39.00	5165	70.00	1268	106.00	5176	146.00	83
41.00	1291	71.00	53	107.00	374	147.00	65
42.00	78	72.00	1136	110.00	120	148.00	693
43.00	146	73.00	8413	111.00	122	149.00	215
44.00	671	74.00	33088	112.00	78	150.00	261
45.00	1474	75.00	98512	113.00	155	153.00	67
46.00	62	76.00	9481	115.00	974	154.00	59
47.00	2401	77.00	9405	116.00	762	155.00	496
48.00	896	78.00	4139	117.00	2038	156.00	265
49.00	7253	79.00	10774	118.00	1257	157.00	327
50.00	39096	80.00	1616	119.00	1117	159.00	295
51.00	16512	81.00	4035	120.00	14538	160.00	102
52.00	1450	82.00	694	121.00	1470	161.00	175
53.00	585	83.00	78	124.00	132	172.00	547
55.00	420	86.00	267	126.00	92	173.00	1359
56.00	2501	87.00	8135	128.00	888	174.00	180736
57.00	5643	88.00	7833	129.00	362	175.00	12366
58.00	573	89.00	868	130.00	831	176.00	177984
59.00	502	91.00	4175	131.00	318	177.00	11359
60.00	1782	92.00	6133	133.00	58	178.00	339
61.00	8811	93.00	8879	135.00	340	283.00	51
62.00	8822	94.00	23608	136.00	60		
63.00	8585	95.00	205440	137.00	134		

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402.D
Report Date: 23-Feb-2012 13:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 23-FEB-2012 11:29
Lab File ID: 05402.D Init. Cal. Date(s): 14-FEB-2012 14-FEB-2012
Analysis Type: AIR Init. Cal. Times: 13:59 17:08
Lab Sample ID: CCV 8137-59-18 Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
5 Vinyl chloride	0.37200	0.39538	0.39538	0.010	6.28484	30.00000	Averaged	
8 Chloroethane	0.15390	0.15658	0.15658	0.010	1.74279	30.00000	Averaged	
13 1,1-Dichloroethene	0.59058	0.68480	0.68480	0.010	15.95382	30.00000	Averaged	
17 trans-1,2-dichloroethene	10.00000	9.68043	0.42902	0.010	-3.19574	30.00000	Linear	
18 Methyl Tert Butyl Ether	1.00619	1.06550	1.06550	0.010	5.89391	30.00000	Averaged	
20 1,1-Dichloroethane	10.00000	11.68237	0.73110	0.010	16.82373	30.00000	Linear	
$ 21 Hexane-d14(S)	0.41894	0.44211	0.44211	0.010	5.53119	30.00000	Averaged	
24 cis-1,2-Dichloroethene	0.42911	0.39630	0.39630	0.010	-7.64483	30.00000	Averaged	
29 1,1,1-Trichloroethane	0.89931	0.94928	0.94928	0.010	5.55729	30.00000	Averaged	
30 1,2-Dichloroethane	0.52264	0.61803	0.61803	0.010	18.25145	30.00000	Averaged	
31 Benzene	1.18687	1.14198	1.14198	0.010	-3.78209	30.00000	Averaged	
38 Trichloroethene	0.55932	0.51894	0.51894	0.010	-7.22066	30.00000	Averaged	
$ 43 Toluene-d8 (S)	0.79795	0.90381	0.90381	0.010	13.26749	30.00000	Averaged	
44 Toluene	1.37043	1.39800	1.39800	0.010	2.01206	30.00000	Averaged	
49 Tetrachloroethene	1.44812	1.30341	1.30341	0.010	-9.99310	30.00000	Averaged	
52 Ethyl Benzene	2.48993	2.93304	2.93304	0.010	17.79612	30.00000	Averaged	
53 m&p-Xylene	2.12826	2.42196	2.42196	0.010	13.80040	30.00000	Averaged	
57 o-Xylene	1.84488	2.32134	2.32134	0.010	25.82653	30.00000	Averaged	
60 n-Propylbenzene	2.77656	3.91154	3.91154	0.010	40.87715	30.00000	Averaged	<-
$ 66 1,4-dichlorobenzene-d4 (S)	0.63810	0.79485	0.79485	0.010	24.56560	30.00000	Averaged	

Average %D / Drift Results.
Calculated Average %D/Drift = 12.30104
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402.D
Report Date: 23-Feb-2012 13:33

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05402.D
Lab Smp Id: CCV 8137-59-18
Inj Date : 23-FEB-2012 11:29
Operator : RTP Inst ID: 10airB.i
Smp Info : CCV 8137-59-18
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10RPROVOST2

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	472838	10.0000	10.6
	8 Chloroethane	64	3.965	3.959	(0.587)	187258	10.0000	10.2(M)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	818962	10.0000	11.6
	17 trans-1,2-dichloroethene	96	5.009	5.004	(0.742)	513068	10.0000	9.68
	18 Methyl Tert Butyl Ether	73	5.057	5.051	(0.749)	1274241	10.0000	10.6(M)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	874327	10.0000	11.7
$	21 Hexane-d14(S)	66	5.300	5.301	(0.785)	528730	10.0000	10.6
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	473944	10.0000	9.24
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.925)	1135260	10.0000	10.6
	30 1,2-Dichloroethane	62	6.262	6.268	(0.927)	739113	10.0000	11.8
	31 Benzene	78	6.553	6.553	(0.970)	1365711	10.0000	9.62
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1195914	10.0000	
	38 Trichloroethene	130	7.217	7.224	(1.069)	620604	10.0000	9.28
$	43 Toluene-d8 (S)	98	8.576	8.577	(1.270)	1080885	10.0000	11.3
	44 Toluene	91	8.671	8.672	(1.284)	1671892	10.0000	10.2
	49 Tetrachloroethene	166	9.674	9.681	(0.925)	880113	10.0000	9.00
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	675238	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.033)	1980500	10.0000	11.8
	53 m&p-Xylene	91	10.986	10.993	(1.050)	3270805	20.0000	22.8
	57 o-Xylene	91	11.568	11.574	(1.105)	1567459	10.0000	12.6
	60 N-Propylbenzene	91	12.921	12.922	(1.235)	2641218	10.0000	14.1(A)
$	66 1,4-dichlorobenzene-d4 (S)	150	14.274	14.275	(1.364)	536714	10.0000	12.4

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402.D
Report Date: 23-Feb-2012 13:33

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402.D
Report Date: 23-Feb-2012 13:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05402.D
Lab Smp Id: CCV 8137-59-18
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info:

Calibration Date: 22-FEB-2012
Calibration Time: 12:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

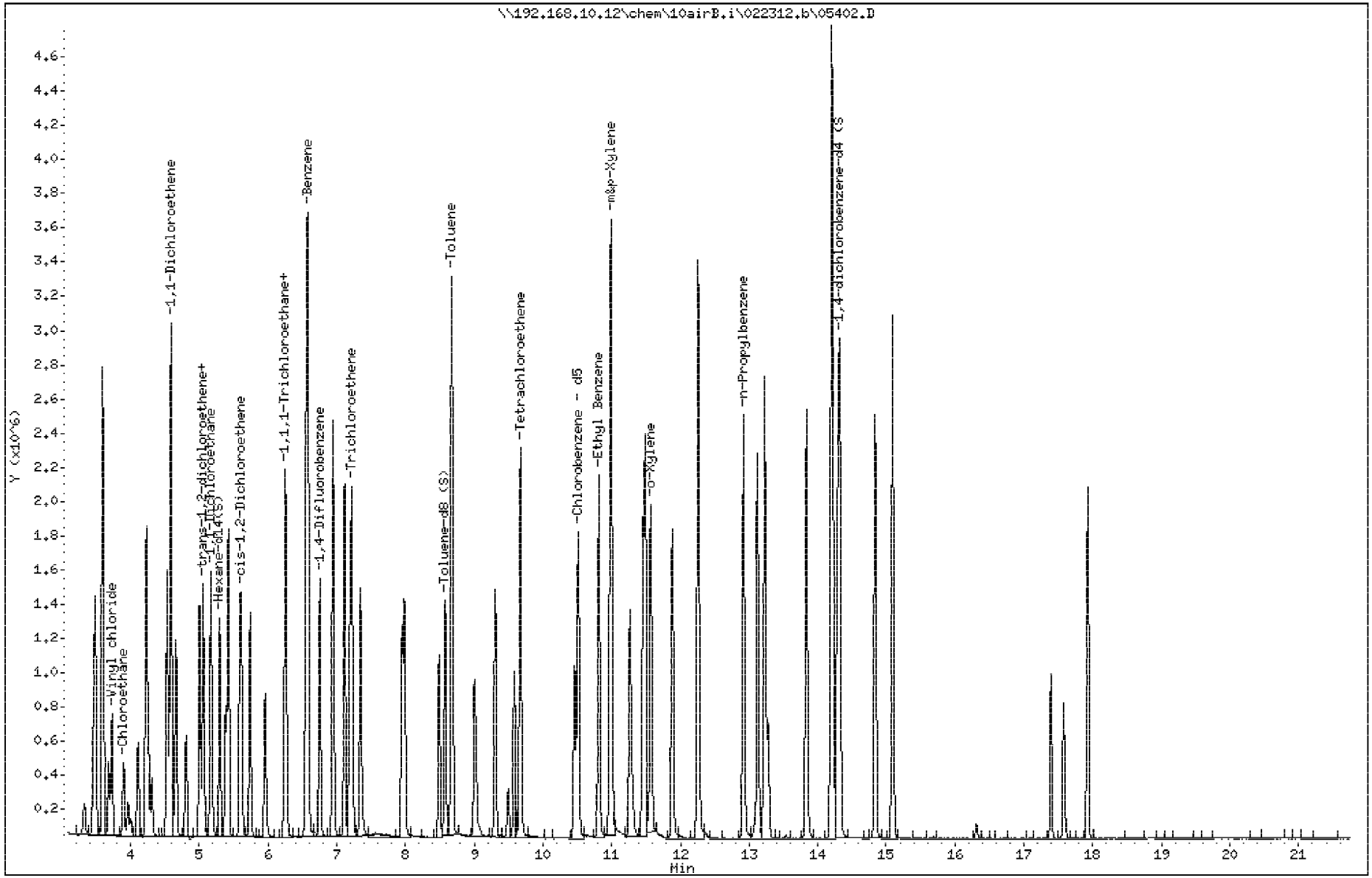
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1195914	-30.11
50 Chlorobenzene - d	907290	544374	1270206	675238	-25.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

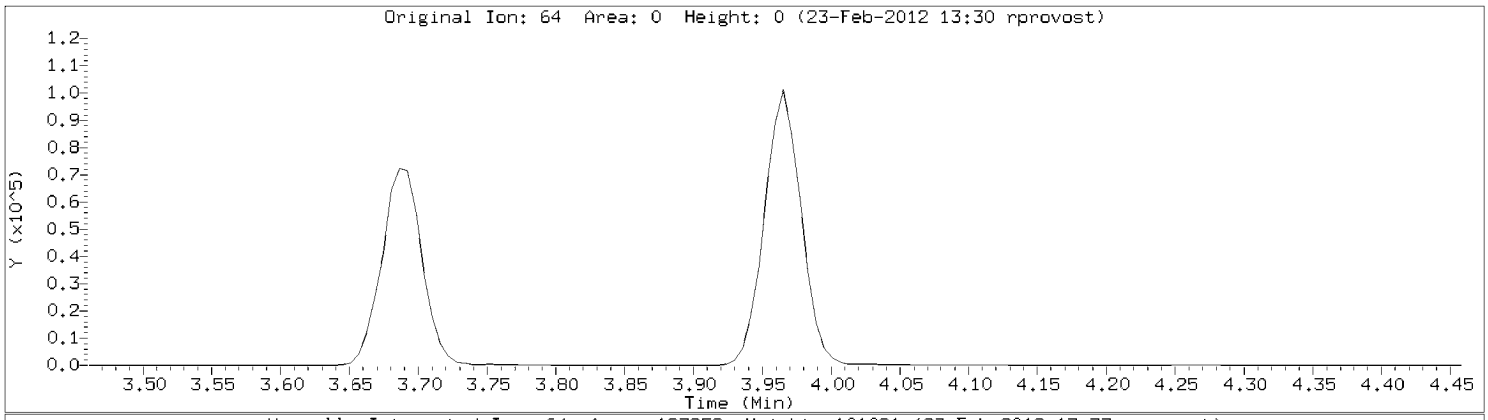
Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402.D
Date : 23-FEB-2012 11:29
Client ID:
Sample Info: CCV 8137-59-18

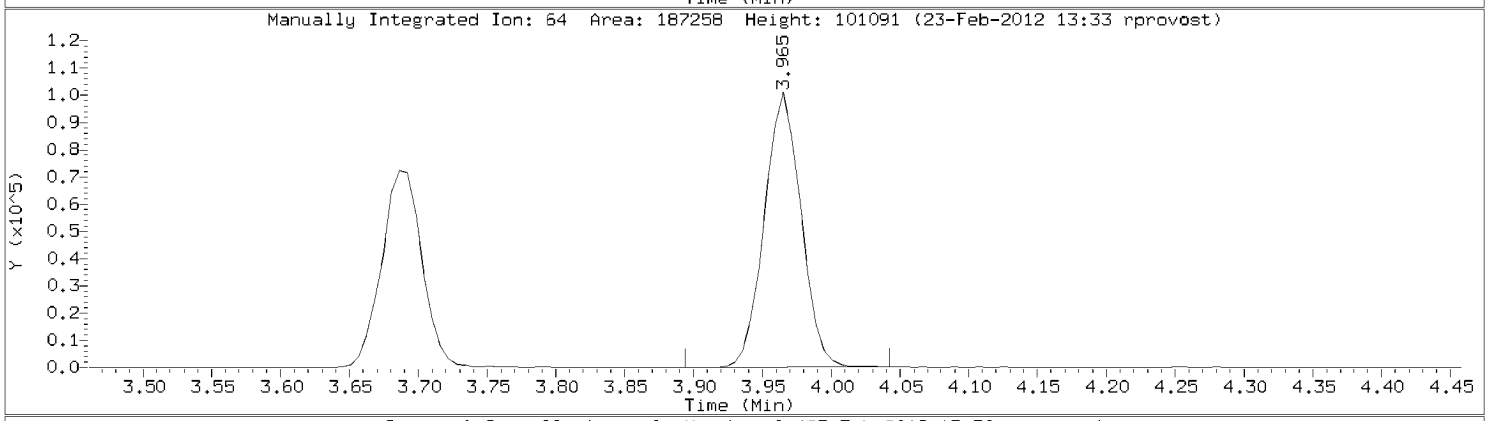
Instrument: 10airB.i
Operator: RTP
Column phase: J&W DB-5
Column diameter: 0.32

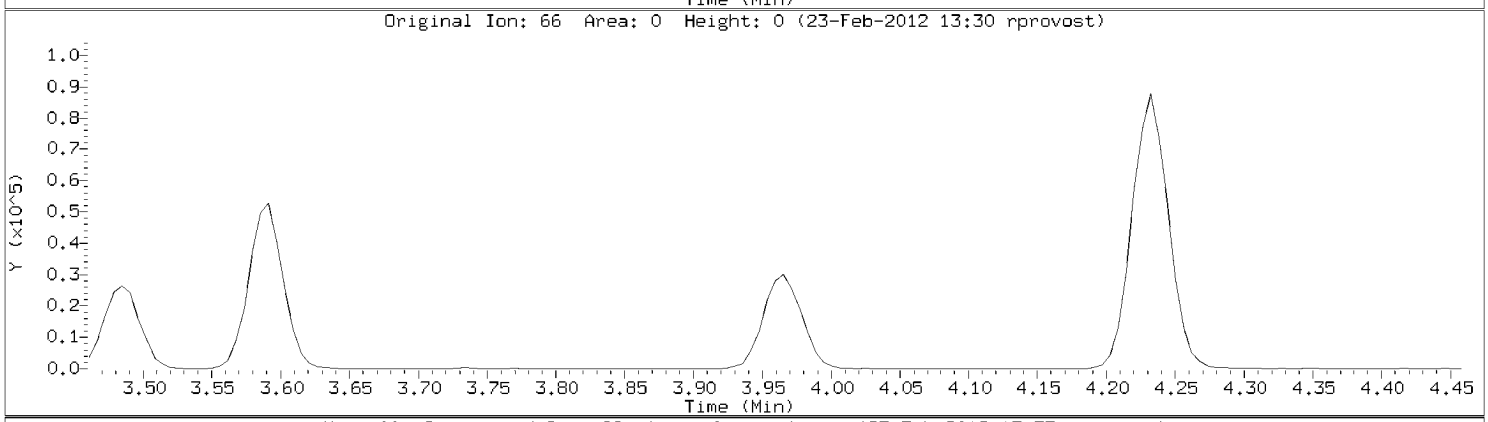


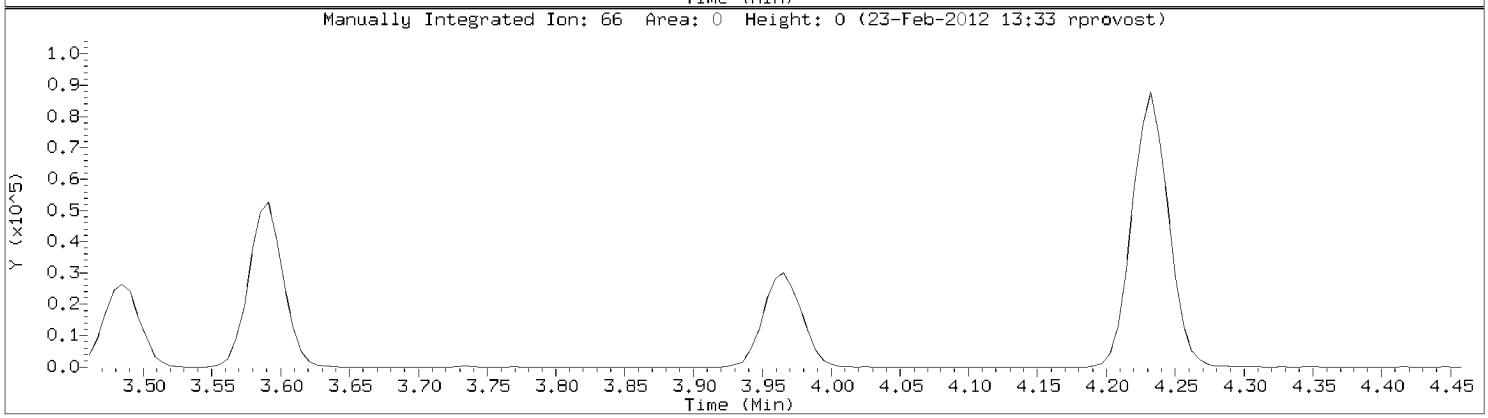
Data File: \\192.168.10.12\chem\10airB.i\022312.b/05402.D
Injection Date: 23-FEB-2012 11:29
Instrument: 10airB.i
Lab Sample ID: CCV 8137-59-18

Compound: Chloroethane
CAS Number: 75-00-3



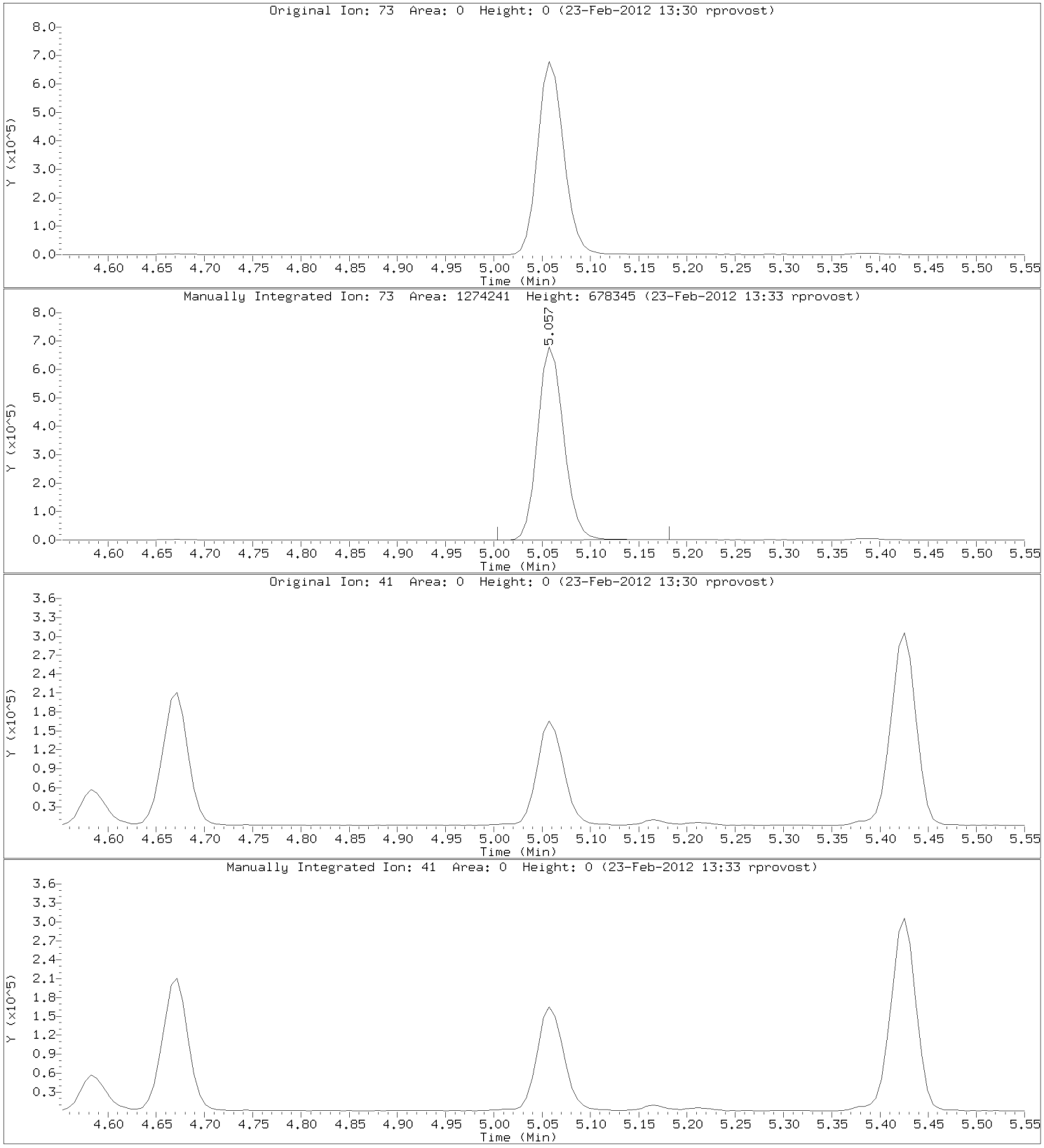






Data File: \\192.168.10.12\chem\10airB.i\022312.b/05402.D
Injection Date: 23-FEB-2012 11:29
Instrument: 10airB.i
Lab Sample ID: CCV 8137-59-18

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05404a.D
Report Date: 24-Feb-2012 08:31

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05404a.D
Lab Smp Id: 1144378
Inj Date : 23-FEB-2012 12:56
Operator : RTP Inst ID: 10airB.i
Smp Info : Blank
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	Compound Not Detected.					
	8 Chloroethane	64	Compound Not Detected.					
	13 1,1-Dichloroethene	61	Compound Not Detected.					
	17 trans-1,2-dichloroethene	96	Compound Not Detected.					
	18 Methyl Tert Butyl Ether	73	Compound Not Detected.					
	20 1,1-Dichloroethane	63	Compound Not Detected.					
$	21 Hexane-d14(S)	66	5.300	5.301	(0.785)	525103	10.0047	10.0
	24 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,2-Dichloroethane	62	Compound Not Detected.					
	31 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	6.755	6.761	(1.000)	1252812	10.0000	
	38 Trichloroethene	130	Compound Not Detected.					
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1094613	10.9497	10.9
	44 Toluene	91	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	659973	10.0000	
	52 Ethyl Benzene	91	Compound Not Detected.					
	53 m&p-Xylene	91	Compound Not Detected.					
	57 o-Xylene	91	Compound Not Detected.					
	60 N-Propylbenzene	91	Compound Not Detected.					
$	66 1,4-dichlorobenzene-d4 (S)	150	14.269	14.275	(1.364)	324662	7.70934	7.71

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05404a.D
Report Date: 24-Feb-2012 08:31

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05404a.D
Lab Smp Id: 1144378
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

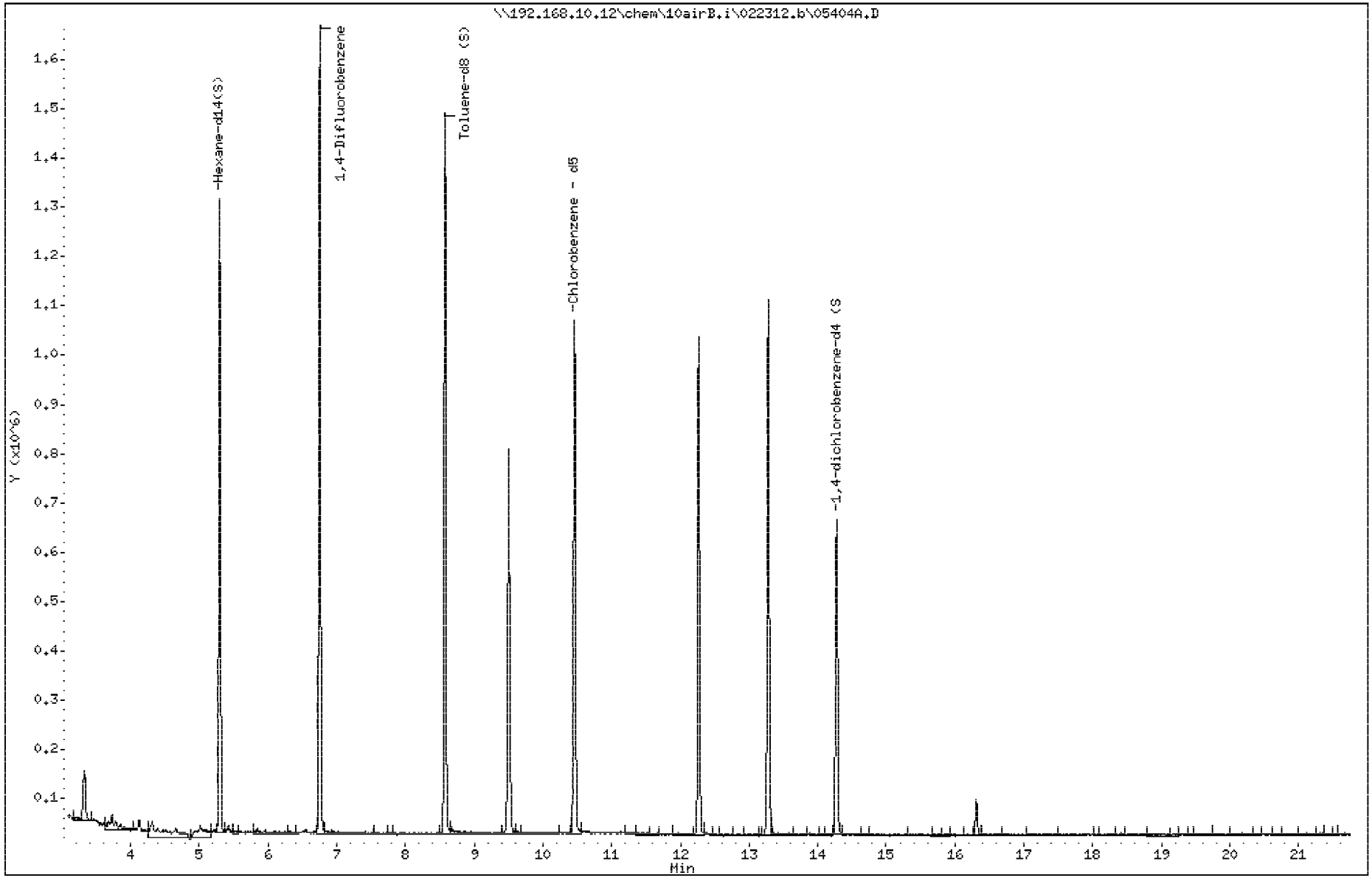
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1252812	-26.79
50 Chlorobenzene - d	907290	544374	1270206	659973	-27.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05404A.D
Date : 23-FEB-2012 12:56
Client ID:
Sample Info: Blank

Instrument: 10airB.i
Operator: RTP
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\022312.b/05404a.D
Injection Date: 23-FEB-2012 12:56
Instrument: 10airB.i
Lab Sample ID: 1144378
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05815LL.D
Report Date: 29-Feb-2012 14:10

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05815LL.D
Lab Smp Id: 1146106
Inj Date : 27-FEB-2012 19:08
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info : 14340
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 28-Feb-2012 08:35 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 15:15 Cal File: 05811.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Dichlorotetrafluoroethane	85	Compound Not Detected.					
4 Chloromethane	50	Compound Not Detected.					
5 Vinyl chloride	62	Compound Not Detected.					
6 1,3-Butadiene	54	Compound Not Detected.					
7 Bromomethane	94	Compound Not Detected.					
8 Chloroethane	64	Compound Not Detected.					
9 Ethanol	31	Compound Not Detected.					
10 Vinyl Bromide	106	Compound Not Detected.					
11 Acrolein	56	Compound Not Detected.					
12 Trichlorofluoromethane	101	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					
14 Isopropyl Alcohol	45	Compound Not Detected.					
15 1,1-Dichloroethene	61	Compound Not Detected.					
16 Acrylonitrile	53	Compound Not Detected.					
17 Tert Butyl Alcohol	59	Compound Not Detected.					
18 Freon 113	101	Compound Not Detected.					
19 Methylene chloride	49	Compound Not Detected.					
20 Allyl Chloride	76	Compound Not Detected.					
21 Carbon Disulfide	76	Compound Not Detected.					
22 trans-1,2-dichloroethene	96	Compound Not Detected.					
23 Methyl Tert Butyl Ether	73	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05815LL.D
Report Date: 29-Feb-2012 14:10

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24	Vinyl Acetate	43	Compound Not Detected.					
	25	1,1-Dichloroethane	63	Compound Not Detected.					
$	26	Hexane-d14(S)	66	4.829	4.836	(0.772)	301699	11.0323	11.0
	27	Methyl Ethyl Ketone	72	Compound Not Detected.					
	28	n-Hexane	57	Compound Not Detected.					
	29	cis-1,2-Dichloroethene	96	Compound Not Detected.					
	30	Ethyl Acetate	43	Compound Not Detected.					
	31	Bromochloromethane	49	Compound Not Detected.					
	32	Chloroform	83	Compound Not Detected.					
	33	Tetrahydrofuran	42	Compound Not Detected.					
	34	1,1,1-Trichloroethane	97	Compound Not Detected.					
	35	1,2-Dichloroethane	62	Compound Not Detected.					
	36	Benzene	78	Compound Not Detected.					
	37	Carbon tetrachloride	117	Compound Not Detected.					
	38	Cyclohexane	56	Compound Not Detected.					
*	39	1,4-Difluorobenzene	114	6.254	6.268	(1.000)	1148464	10.0000	
	40	2,2,4-Trimethylpentane	57	Compound Not Detected.					
	41	Heptane	43	Compound Not Detected.					
	42	1,2-Dichloropropane	63	Compound Not Detected.					
	43	Trichloroethene	130	Compound Not Detected.					
	44	1,4-Dioxane	88	Compound Not Detected.					
	45	Bromodichloromethane	83	Compound Not Detected.					
	46	Methyl Isobutyl Ketone	43	Compound Not Detected.					
	47	cis-1,3-Dichloropropene	75	Compound Not Detected.					
	48	trans-1,3-Dichloropropene	75	Compound Not Detected.					
$	49	Toluene-d8 (S)	98	8.042	8.055	(1.286)	909699	9.51511	9.52
	50	Toluene	91	Compound Not Detected.					
	51	1,1,2-Trichloroethane	97	Compound Not Detected.					
	52	Methyl Butyl Ketone	43	Compound Not Detected.					
	53	Dibromochloromethane	129	Compound Not Detected.					
	54	1,2-Dibromoethane	107	Compound Not Detected.					
	55	Tetrachloroethene	166	Compound Not Detected.					
*	56	Chlorobenzene - d5	117	9.905	9.919	(1.000)	582569	10.0000	
	57	Chlorobenzene	112	Compound Not Detected.					
	58	Ethyl Benzene	91	Compound Not Detected.					
	59	m&p-Xylene	91	Compound Not Detected.					
	60	2-Heptanone	43	Compound Not Detected.					
	61	Bromoform	173	Compound Not Detected.					
	62	Styrene	104	Compound Not Detected.					
	63	o-Xylene	91	Compound Not Detected.					
	64	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	65	Isopropylbenzene	105	Compound Not Detected.					
	66	N-Propylbenzene	91	Compound Not Detected.					
	67	4-Ethyltoluene	105	Compound Not Detected.					
	68	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	69	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	70	1,3-Dichlorobenzene	146	Compound Not Detected.					
	71	Sec- Butylbenzene	105	Compound Not Detected.					
$	72	1,4-dichlorobenzene-d4 (S)	150	13.691	13.711	(1.382)	169793	6.32085	6.32(R)
	73	Benzyl Chloride	91	Compound Not Detected.					
	74	1,4-Dichlorobenzene	146	Compound Not Detected.					
	75	1,2-Dichlorobenzene	146	Compound Not Detected.					
	76	N-Butylbenzene	91	Compound Not Detected.					
	77	1,2,4-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05815LL.D
Report Date: 29-Feb-2012 14:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78 Naphthalene	128	Compound Not Detected.					
79 Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05815LL.D
Report Date: 29-Feb-2012 14:10

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05815LL.D
Lab Smp Id: 1146106
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info: 14340

Calibration Date: 27-FEB-2012
Calibration Time: 18:09
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1148464	-12.20
56 Chlorobenzene - d	717767	430660	1004874	582569	-18.84

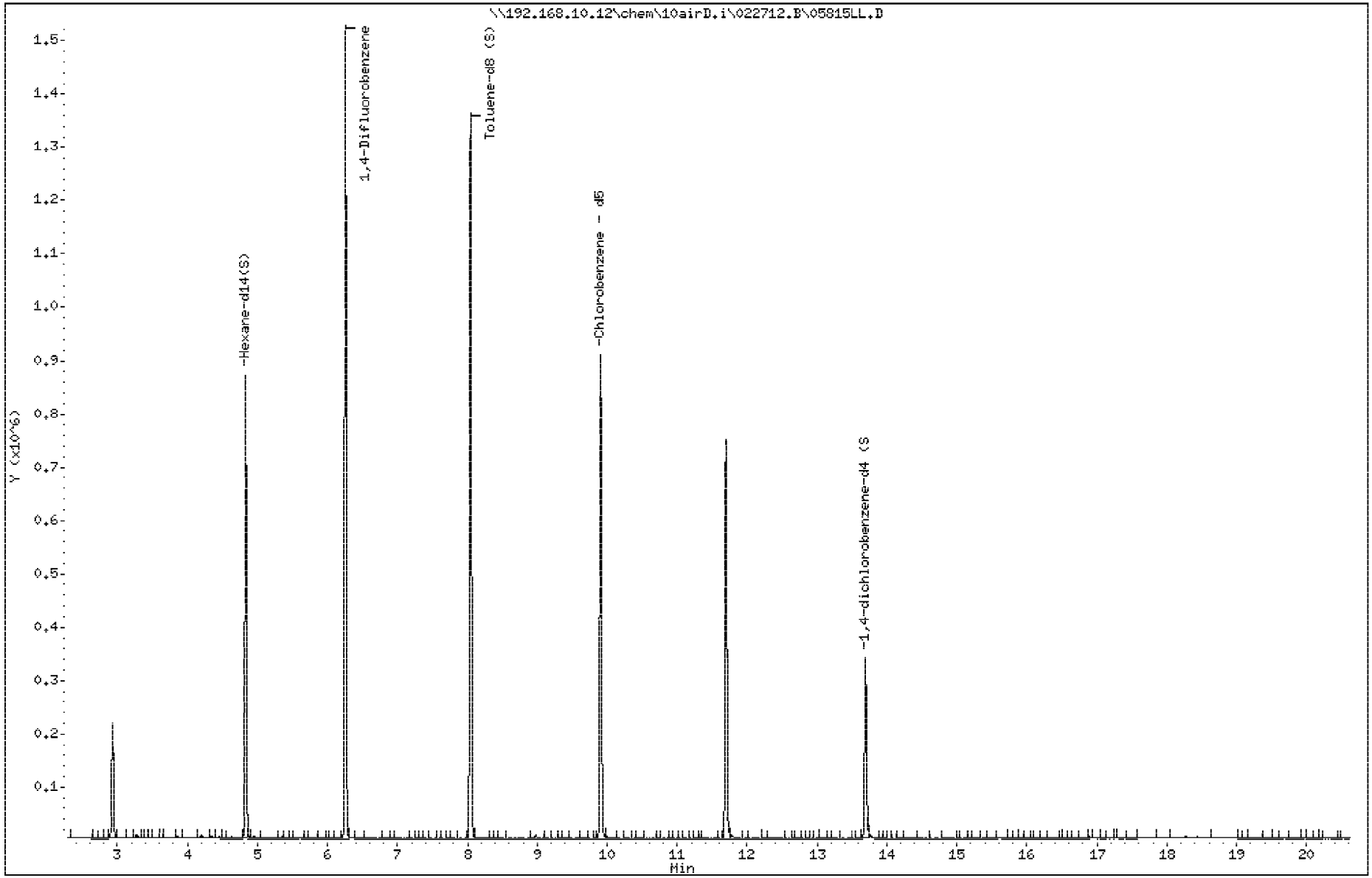
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.25	-0.11
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05815LL.D
Date : 27-FEB-2012 19:08
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32

Column phase: J&W DB-5



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05815LL.D
Injection Date: 27-FEB-2012 19:08
Instrument: 10airD.i
Lab Sample ID: 1146106
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402a.D
Report Date: 24-Feb-2012 08:31

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05402a.D
Lab Smp Id: 1144379
Inj Date : 23-FEB-2012 11:29
Operator : RTP Inst ID: 10airB.i
Smp Info : CCV 8137-59-18
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	3.686	3.686	(0.546)	472838	10.6285	10.6
	8 Chloroethane	64	3.965	3.959	(0.587)	187258	10.1743	10.2(M)
	13 1,1-Dichloroethene	61	4.535	4.535	(0.671)	818962	11.5954	11.6
	17 trans-1,2-dichloroethene	96	5.009	5.004	(0.742)	513068	9.68043	9.68
	18 Methyl Tert Butyl Ether	73	5.057	5.051	(0.749)	1274241	10.5894	10.6(M)
	20 1,1-Dichloroethane	63	5.176	5.176	(0.766)	874327	11.6824	11.7
$	21 Hexane-d14(S)	66	5.300	5.301	(0.785)	528730	10.5531	10.6
	24 cis-1,2-Dichloroethene	96	5.591	5.591	(0.828)	473944	9.23552	9.24
	29 1,1,1-Trichloroethane	97	6.250	6.250	(0.925)	1135260	10.5557	10.6
	30 1,2-Dichloroethane	62	6.262	6.268	(0.927)	739113	11.8251	11.8
	31 Benzene	78	6.553	6.553	(0.970)	1365711	9.62179	9.62
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1195914	10.0000	
	38 Trichloroethene	130	7.217	7.224	(1.069)	620604	9.27793	9.28
$	43 Toluene-d8 (S)	98	8.576	8.577	(1.270)	1080885	11.3267	11.3
	44 Toluene	91	8.671	8.672	(1.284)	1671892	10.2012	10.2
	49 Tetrachloroethene	166	9.674	9.681	(0.925)	880113	9.00069	9.00
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	675238	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.033)	1980500	11.7796	11.8
	53 m&p-Xylene	91	10.986	10.993	(1.050)	3270805	22.7601	22.8
	57 o-Xylene	91	11.568	11.574	(1.105)	1567459	12.5827	12.6
	60 N-Propylbenzene	91	12.921	12.922	(1.235)	2641218	14.0877	14.1(A)
$	66 1,4-dichlorobenzene-d4 (S)	150	14.274	14.275	(1.364)	536714	12.4566	12.4

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402a.D
Report Date: 24-Feb-2012 08:31

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402a.D
Report Date: 24-Feb-2012 08:31

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05402a.D
Lab Smp Id: 1144379
Analysis Type: VOA
Quant Type: ISTD
Operator: RTP
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

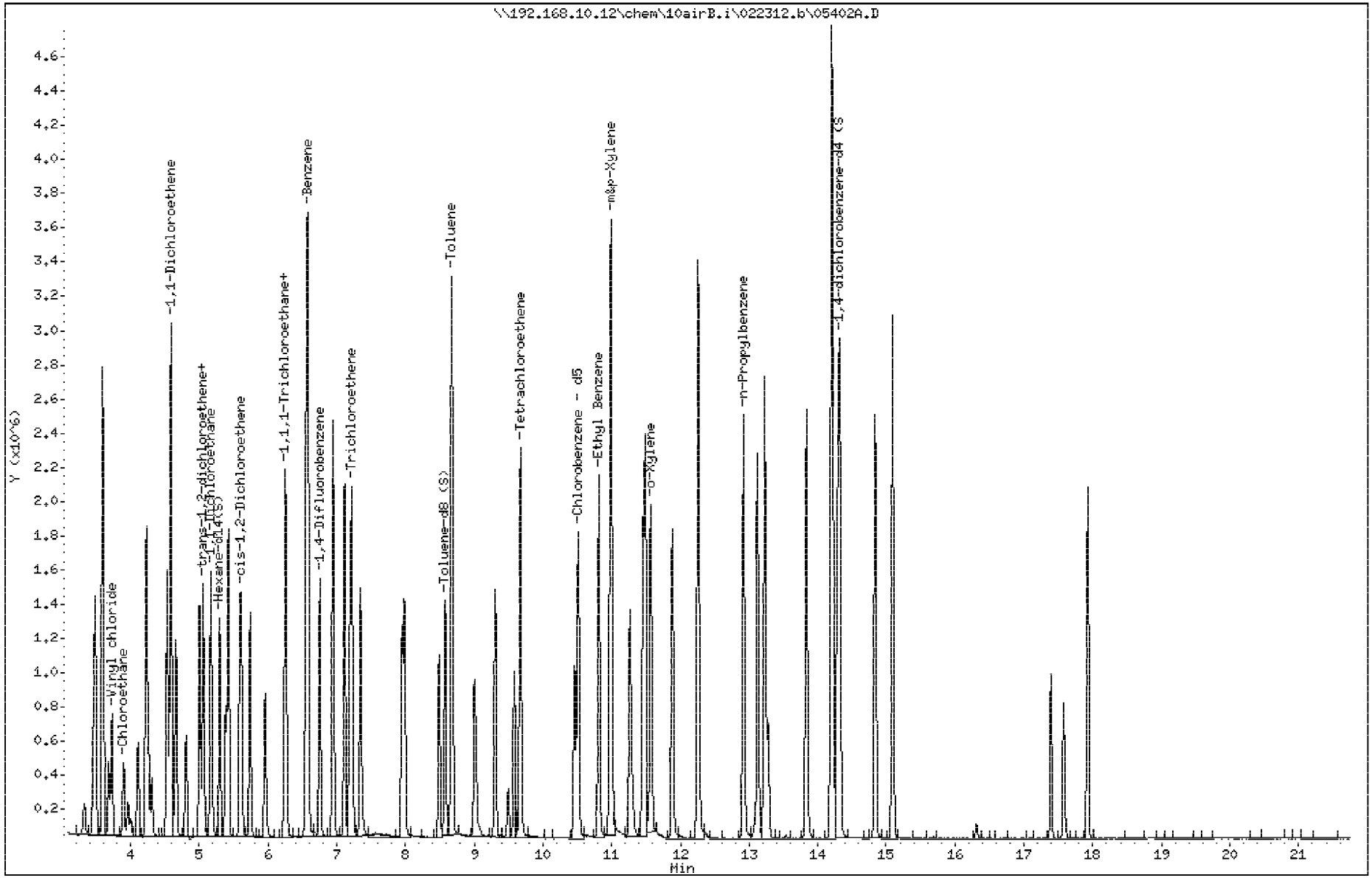
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1195914	-30.11
50 Chlorobenzene - d	907290	544374	1270206	675238	-25.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

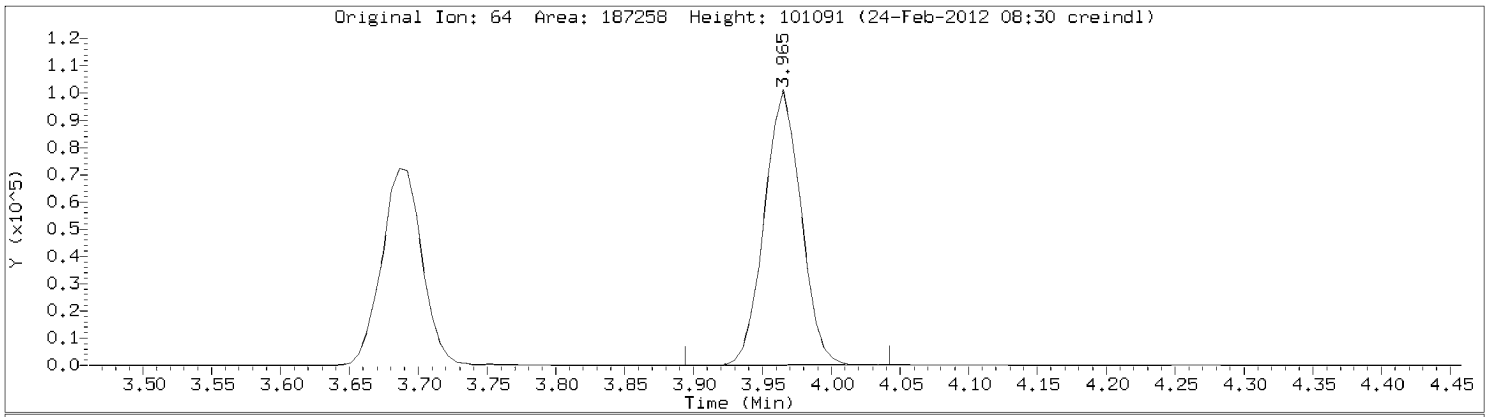
Data File: \\192.168.10.12\chem\10airB.i\022312.b\05402A.D
Date : 23-FEB-2012 11:29
Client ID:
Sample Info: CCV 8137-59-18

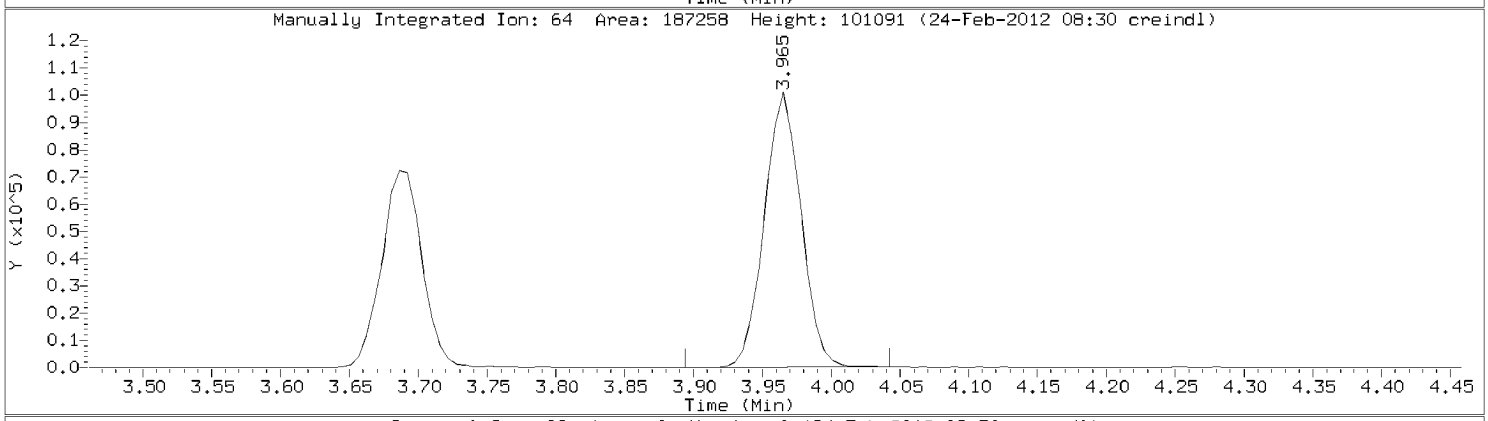
Instrument: 10airB.i
Operator: RTP
Column phase: J&W DB-5
Column diameter: 0.32

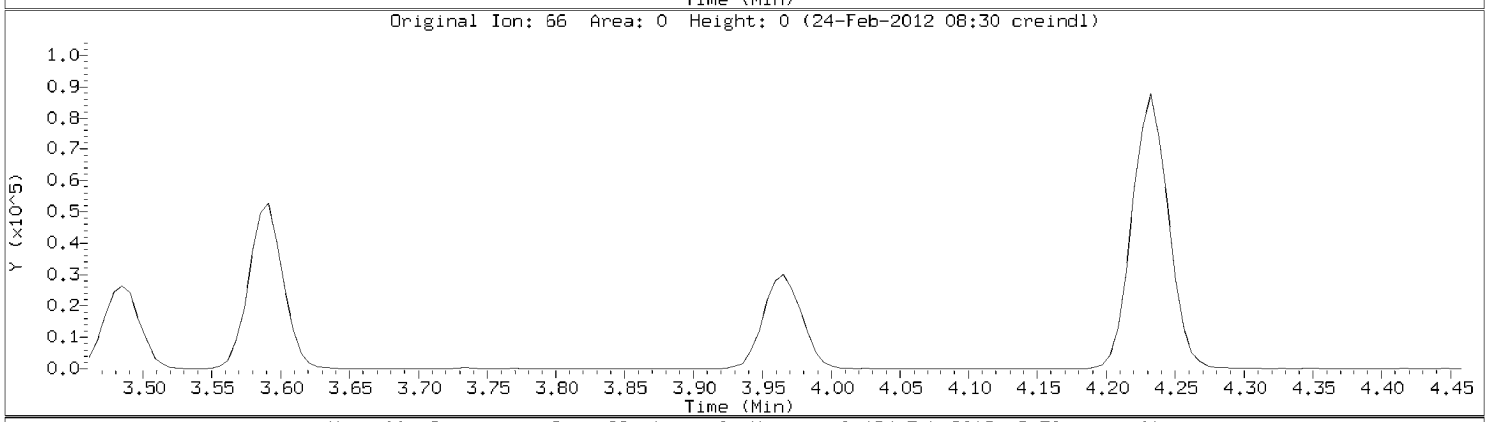


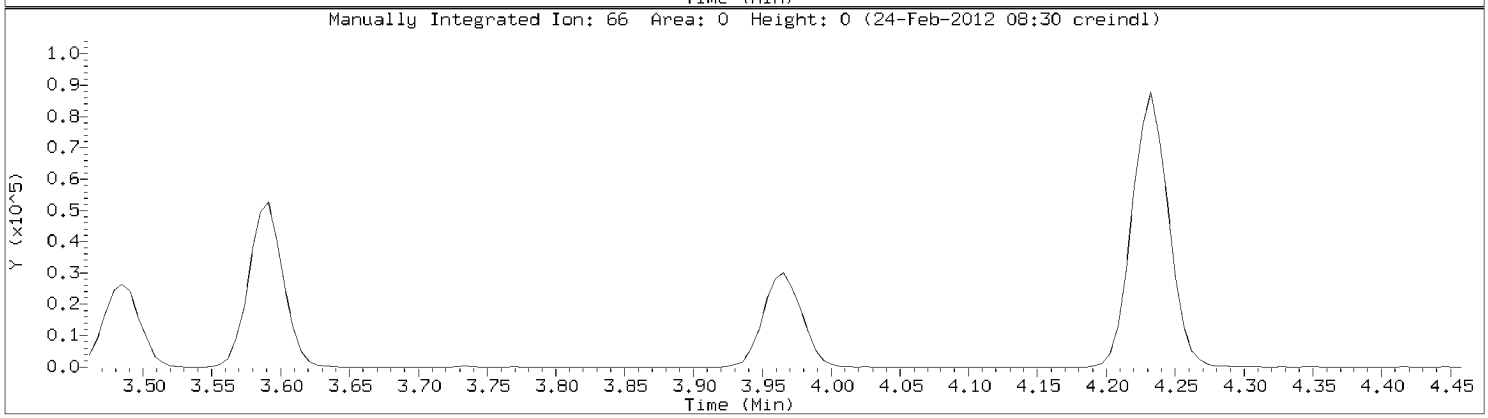
Data File: \\192.168.10.12\chem\10airB.i\022312.b/05402a.D
Injection Date: 23-FEB-2012 11:29
Instrument: 10airB.i
Lab Sample ID: 1144379

Compound: Chloroethane
CAS Number: 75-00-3



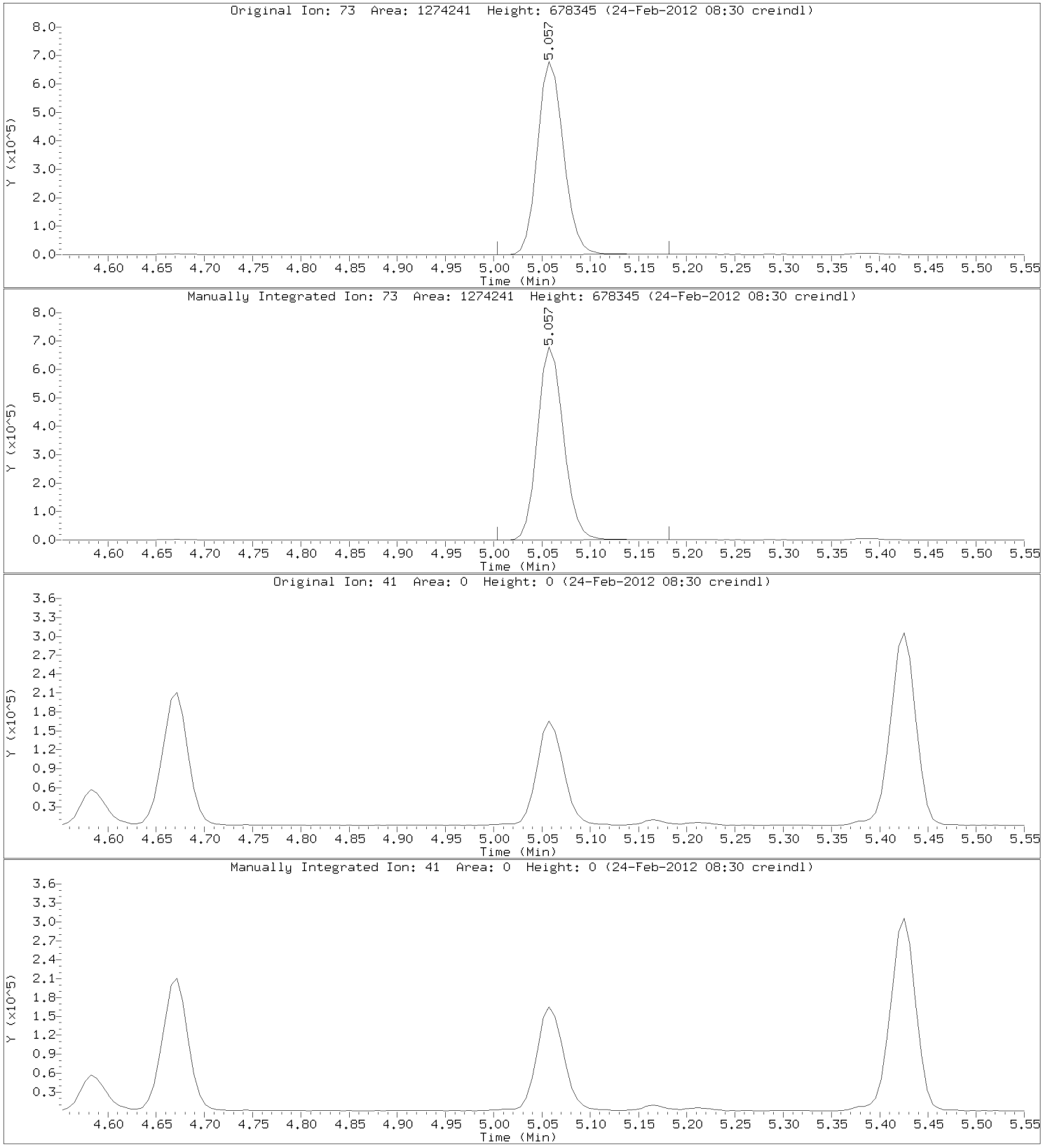






Data File: \\192.168.10.12\chem\10airB.i\022312.b/05402a.D
Injection Date: 23-FEB-2012 11:29
Instrument: 10airB.i
Lab Sample ID: 1144379

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05813LL.D
Report Date: 29-Feb-2012 14:10

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05813LL.D
Lab Smp Id: 1146107
Inj Date : 27-FEB-2012 18:09
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info : 14340
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 28-Feb-2012 08:35 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 15:15 Cal File: 05811.D
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Propylene	41	3.054	3.055	(0.488)	203529	11.0985	11.1
2	Dichlorodifluoromethane	85	3.084	3.084	(0.492)	955823	11.1419	11.1
3	Dichlorotetrafluoroethane	85	3.185	3.186	(0.509)	891213	11.2524	11.2
4	Chloromethane	50	3.185	3.186	(0.509)	359822	11.1515	11.2
5	Vinyl chloride	62	3.277	3.277	(0.523)	318351	11.9322	11.9
6	1,3-Butadiene	54	3.322	3.323	(0.530)	216330	11.7638	11.8
7	Bromomethane	94	3.483	3.483	(0.556)	286277	11.4173	11.4
8	Chloroethane	64	3.541	3.542	(0.565)	127433	11.7522	11.8(M)
9	Ethanol	31	3.577	3.578	(0.571)	161123	11.2258	11.2
10	Vinyl Bromide	106	3.682	3.683	(0.588)	394613	12.0738	12.1
11	Acrolein	56	3.783	3.784	(0.604)	112230	12.6613	12.7
12	Trichlorofluoromethane	101	3.796	3.800	(0.606)	1049726	11.1518	11.2
13	Acetone	43	3.829	3.833	(0.611)	557254	11.0348	11.0
14	Isopropyl Alcohol	45	3.859	3.869	(0.616)	493349	8.55155	8.55
15	1,1-Dichloroethene	61	4.091	4.094	(0.653)	599770	11.6958	11.7
16	Acrylonitrile	53	4.094	4.101	(0.654)	209851	12.3948	12.4
17	Tert Butyl Alcohol	59	4.107	4.111	(0.656)	538943	7.68565	7.68(M)
18	Freon 113	101	4.146	4.150	(0.662)	778296	11.3269	11.3
19	Methylene chloride	49	4.208	4.211	(0.672)	381595	11.9493	11.9
20	Allyl Chloride	76	4.221	4.229	(0.674)	151241	11.7858	11.8
21	Carbon Disulfide	76	4.349	4.349	(0.694)	689437	11.3634	11.4
22	trans-1,2-dichloroethene	96	4.548	4.552	(0.726)	402223	11.8922	11.9
23	Methyl Tert Butyl Ether	73	4.587	4.591	(0.732)	802001	11.8875	11.9(M)

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05813LL.D
Report Date: 29-Feb-2012 14:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Vinyl Acetate	43	4.708	4.712	(0.752)	793084	11.6442	11.6
	25 1,1-Dichloroethane	63	4.715	4.719	(0.753)	623741	11.4676	11.5
$	26 Hexane-d14(S)	66	4.833	4.836	(0.771)	322016	9.87446	9.87
	27 Methyl Ethyl Ketone	72	4.914	4.921	(0.785)	157553	11.6760	11.7(M)
	28 n-Hexane	57	4.954	4.957	(0.791)	446619	11.0331	11.0(M)
	29 cis-1,2-Dichloroethene	96	5.120	5.124	(0.817)	394558	12.5805	12.6
	30 Ethyl Acetate	43	5.140	5.147	(0.821)	744969	11.7837	11.8
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	5.264	5.271	(0.840)	865288	11.6245	11.6
	33 Tetrahydrofuran	42	5.463	5.467	(0.872)	356015	11.6237	11.6
	34 1,1,1-Trichloroethane	97	5.758	5.765	(0.919)	870261	11.4514	11.4
	35 1,2-Dichloroethane	62	5.777	5.784	(0.922)	594007	11.8514	11.8
	36 Benzene	78	6.052	6.056	(0.966)	1097170	12.7588	12.8
	37 Carbon tetrachloride	117	6.071	6.079	(0.969)	1020390	11.4990	11.5
	38 Cyclohexane	56	6.078	6.082	(0.970)	469461	12.1512	12.2
*	39 1,4-Difluorobenzene	114	6.264	6.268	(1.000)	1369540	10.0000	
	40 2,2,4-Trimethylpentane	57	6.441	6.448	(1.028)	1493199	11.8852	11.9
	41 Heptane	43	6.611	6.618	(1.055)	605158	12.1981	12.2
	42 1,2-Dichloropropane	63	6.686	6.696	(1.067)	374083	12.3100	12.3(M)
	43 Trichloroethene	130	6.712	6.719	(1.071)	670699	11.3171	11.3
	44 1,4-Dioxane	88	6.833	6.840	(1.091)	212412	11.9073	11.9(M)
	45 Bromodichloromethane	83	6.836	6.840	(1.091)	927813	11.7146	11.7
	46 Methyl Isobutyl Ketone	43	7.418	7.429	(1.184)	738532	11.4610	11.5
	47 cis-1,3-Dichloropropene	75	7.470	7.481	(1.193)	678826	11.6582	11.6
	48 trans-1,3-Dichloropropene	75	7.967	7.978	(1.272)	583245	11.2575	11.2
$	49 Toluene-d8 (S)	98	8.046	8.055	(1.284)	1123013	9.85017	9.85
	50 Toluene	91	8.137	8.144	(1.299)	1387907	11.4900	11.5
	51 1,1,2-Trichloroethane	97	8.147	8.161	(1.301)	486633	12.0447	12.0
	52 Methyl Butyl Ketone	43	8.451	8.465	(0.853)	674534	11.6042	11.6
	53 Dibromochloromethane	129	8.768	8.778	(0.885)	1067241	11.4265	11.4
	54 1,2-Dibromoethane	107	9.043	9.053	(0.912)	834807	11.4495	11.4
	55 Tetrachloroethene	166	9.131	9.135	(0.921)	854133	11.3236	11.3
*	56 Chlorobenzene - d5	117	9.912	9.919	(1.000)	756725	10.0000	
	57 Chlorobenzene	112	9.961	9.968	(1.005)	1244201	13.5257	13.5(R)
	58 Ethyl Benzene	91	10.262	10.272	(1.035)	1740131	11.6073	11.6
	59 m&p-Xylene	91	10.435	10.445	(1.053)	2778677	24.2677	24.3
	60 2-Heptanone	43	10.703	10.730	(1.709)	871968	9.10257	9.10(A)
	61 Bromoform	173	10.889	10.900	(1.099)	1109506	11.2838	11.3
	62 Styrene	104	10.932	10.946	(1.103)	1291947	11.5191	11.5
	63 o-Xylene	91	11.010	11.021	(1.111)	1257535	11.6851	11.7
	64 1,1,2,2-Tetrachloroethane	83	11.327	11.341	(1.143)	1025813	11.7323	11.7
	65 Isopropylbenzene	105	11.690	11.701	(1.179)	2045490	11.7182	11.7
	66 N-Propylbenzene	91	12.354	12.364	(1.246)	2148585	11.6025	11.6
	67 4-Ethyltoluene	105	12.553	12.567	(1.266)	1708893	11.5067	11.5(M)
	68 1,3,5-Trimethylbenzene	105	12.658	12.671	(1.277)	1633146	11.5717	11.6
	69 1,2,4-Trimethylbenzene	105	13.256	13.273	(1.337)	1516601	11.3311	11.3
	70 1,3-Dichlorobenzene	146	13.615	13.629	(1.374)	1349949	11.5469	11.5
	71 Sec- Butylbenzene	105	13.638	13.652	(1.376)	2376158	12.0786	12.1
$	72 1,4-dichlorobenzene-d4 (S)	150	13.700	13.711	(1.382)	346888	9.94155	9.94
	73 Benzyl Chloride	91	13.723	13.737	(1.384)	1295154	11.7695	11.8
	74 1,4-Dichlorobenzene	146	13.746	13.763	(1.387)	1325312	11.4471	11.4
	75 1,2-Dichlorobenzene	146	14.279	14.289	(1.441)	1188241	11.3611	11.4
	76 N-Butylbenzene	91	14.554	14.564	(1.468)	1605456	11.8047	11.8
	77 1,2,4-Trichlorobenzene	180	16.897	16.893	(1.705)	483075	11.1019	11.1

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05813LL.D
Report Date: 29-Feb-2012 14:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78 Naphthalene	128	17.074	17.074	(1.722)	912150	6.38203	6.38
79 Hexachlorobutadiene	225	17.443	17.440	(1.760)	370458	11.9526	12.0

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05813LL.D
Report Date: 29-Feb-2012 14:10

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05813LL.D
Lab Smp Id: 1146107
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info: 14340

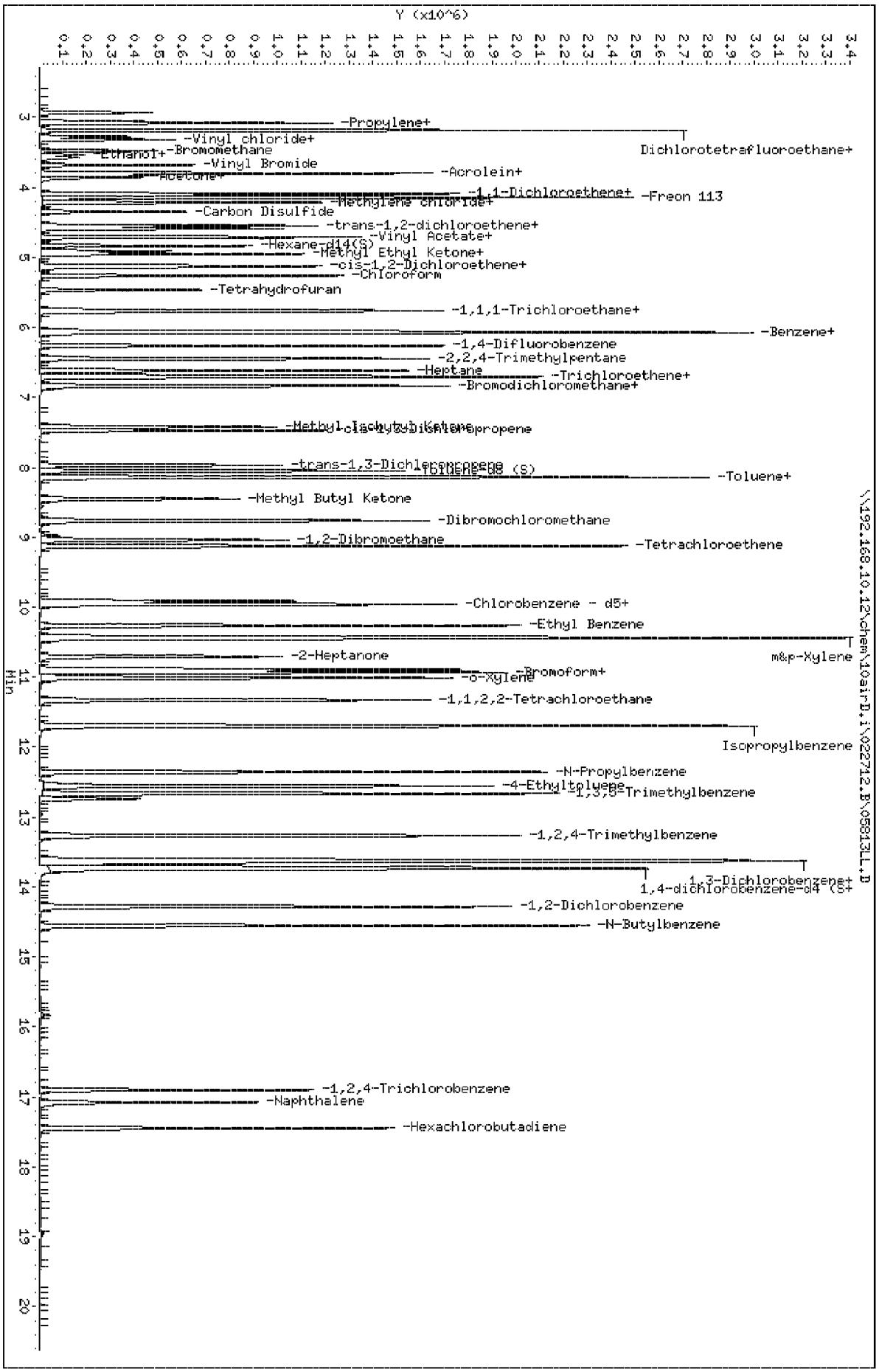
Calibration Date: 27-FEB-2012
Calibration Time: 18:09
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1369540	4.70
56 Chlorobenzene - d	717767	430660	1004874	756725	5.43

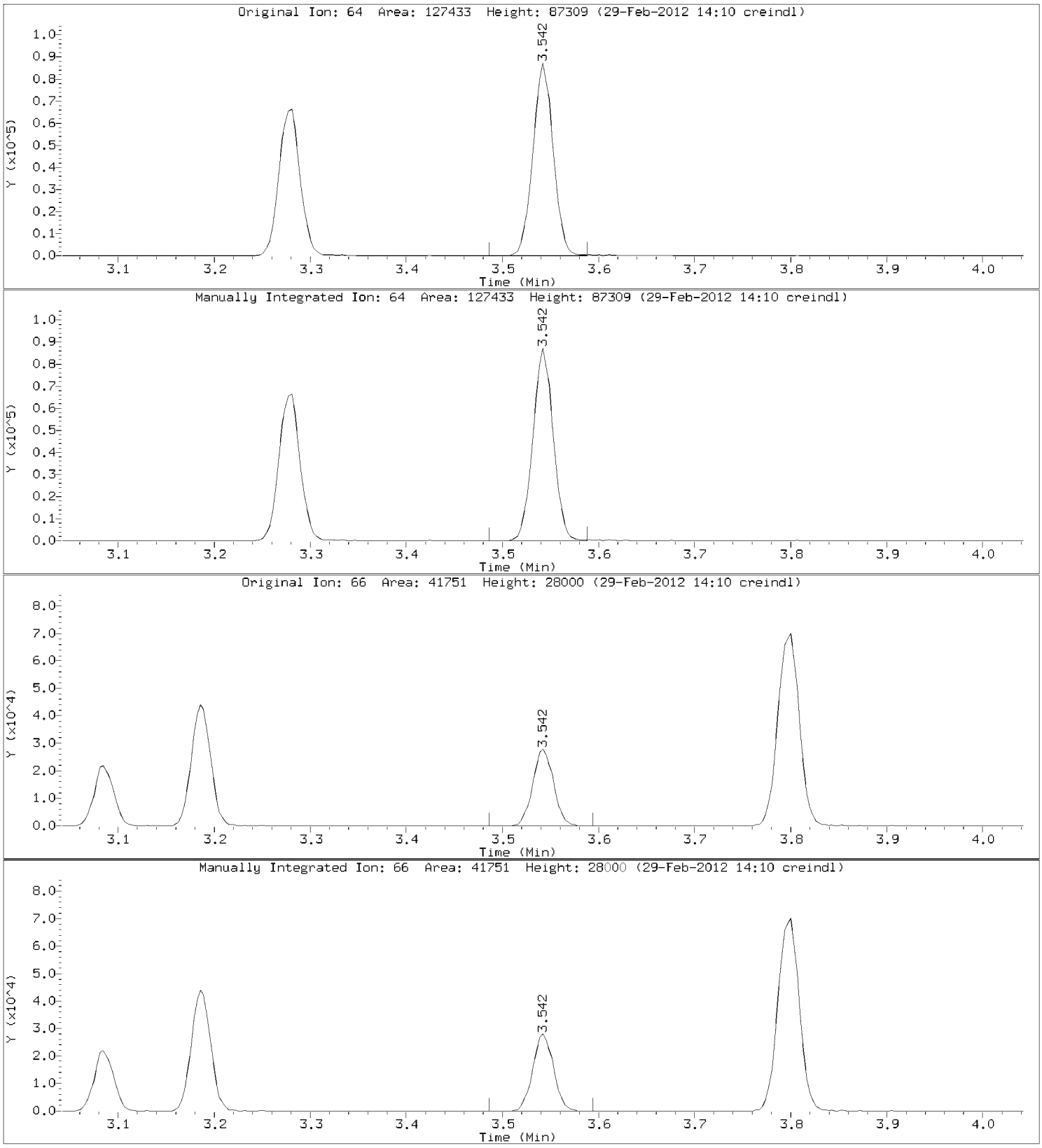
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	0.05
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Y (x10^6)
Data File: \\192.168.10.12\chem\10air.i\022712.b\0513ll.d
Date : 27-FEB-2012 18:09
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10air.i
Operator: SK4
Column diameter: 0.32
\\192.168.10.12\chem\10air.i\022712.b\0513ll.d
Min
-Propylene+
-Vinyl chloride+
-Bromomethane
Ethanol+
-Vinyl Bromide
Acetone+
-Acrolein+
-1,1-Dichloroethene+
-Freon 113
-Methylene chloride+
-Carbon Disulfide
-trans-1,2-dichloroethene+
-Vinyl Acetate+
-Hexane-d14(S)
-Methyl Ethyl Ketone+
-cis-1,2-Dichloroethene+
-Chloroform
-Tetrahydrofuran
-1,1,1-Trichloroethane+
-Benzene+
-1,4-Difluorobenzene
-2,2,4-Trimethylpentane
-Heptane
-Trichloroethene+
-Bromodichloromethane+
-Methyl Isobutyl Ketone
-trans-1,3-Dichloropropene
Toluene-d8 (S)
-Toluene+
-Methyl Butyl Ketone
-Dibromochloromethane
-1,2-Dibromoethane
-Tetrachloroethene
-Chlorobenzene - d5+
-Ethyl Benzene
m&p-Xylene
-2-Heptanone
-Bromoform+
-o-Xylene
-1,1,2,2-Tetrachloroethane
Isopropylbenzene
-N-Propylbenzene
-4-Ethyltoluene
1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
1,3-Dichlorobenzene+
1,4-dichlorobenzene-d4 (S+
-1,2-Dichlorobenzene
-N-Butylbenzene
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene

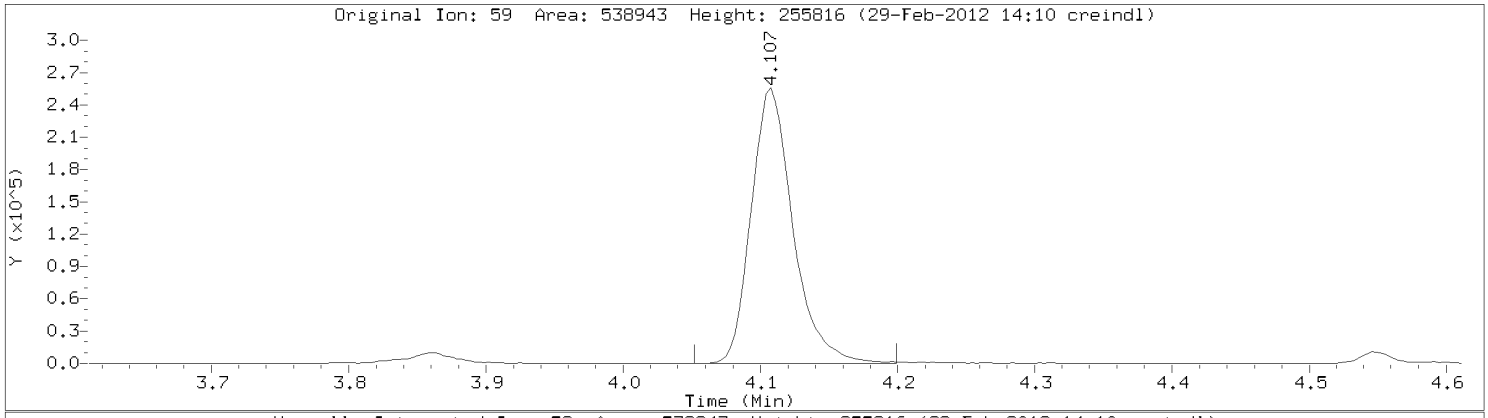
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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

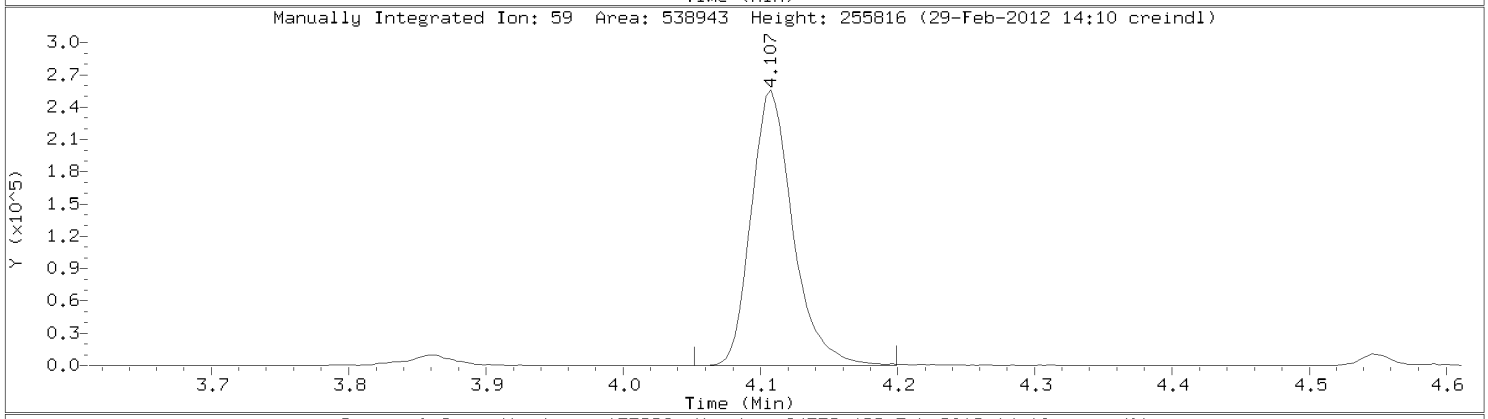
Compound: Chloroethane
CAS Number: 75-00-3

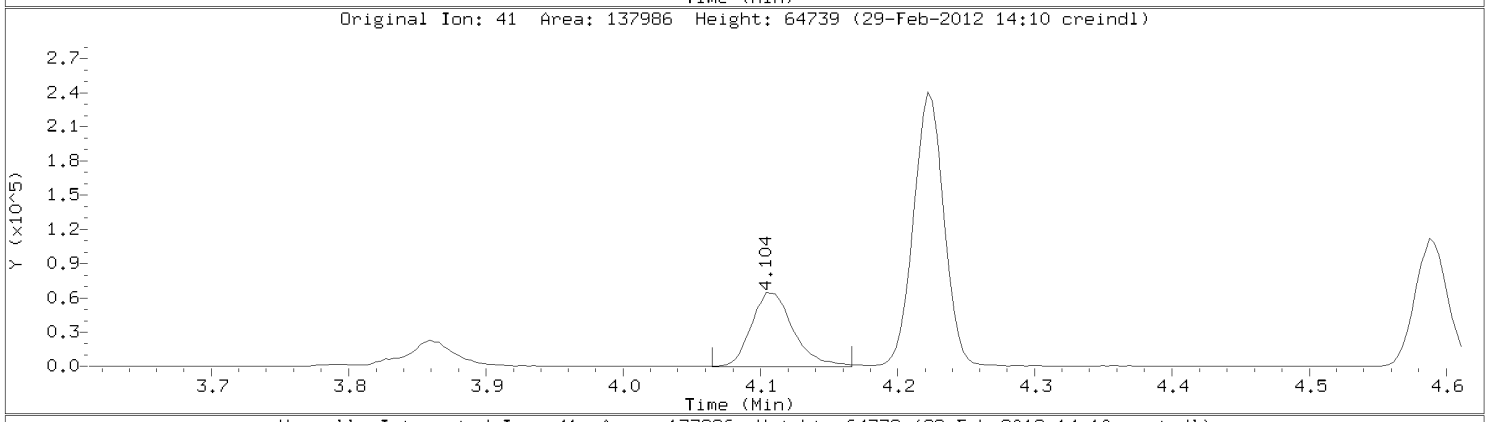


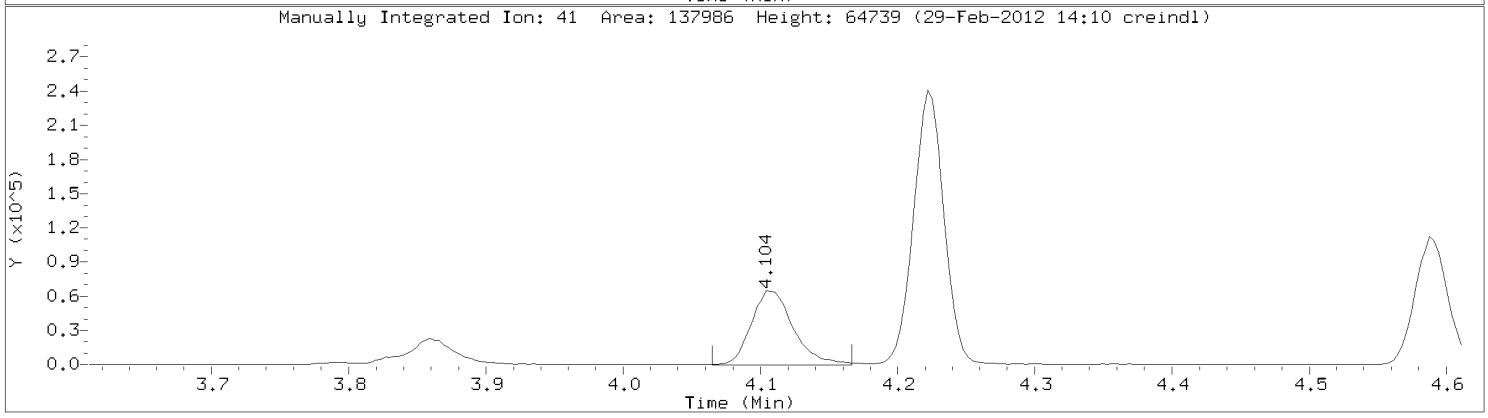
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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: Tert Butyl Alcohol
CAS Number: 75-65-0



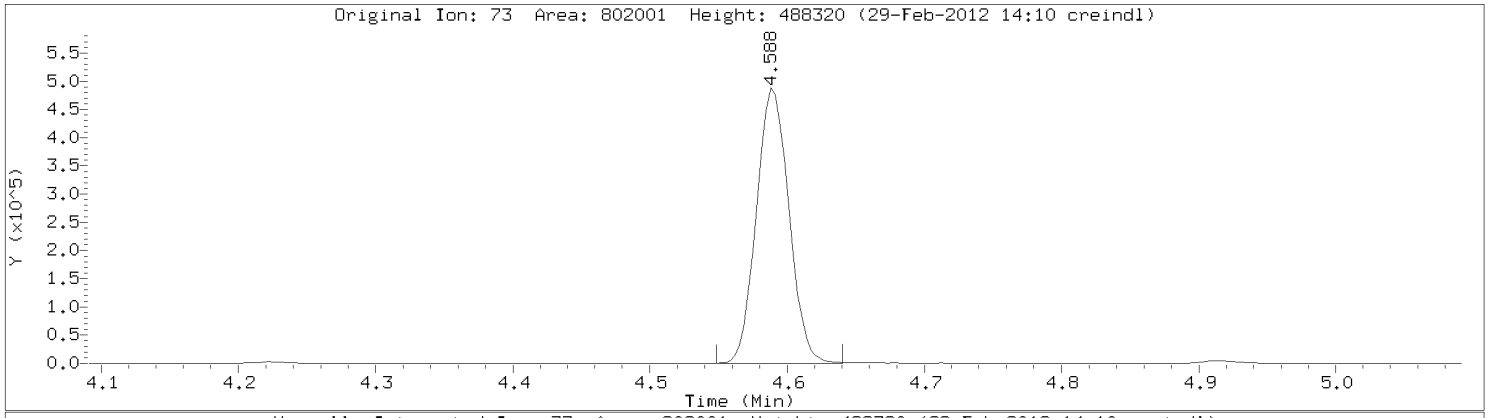


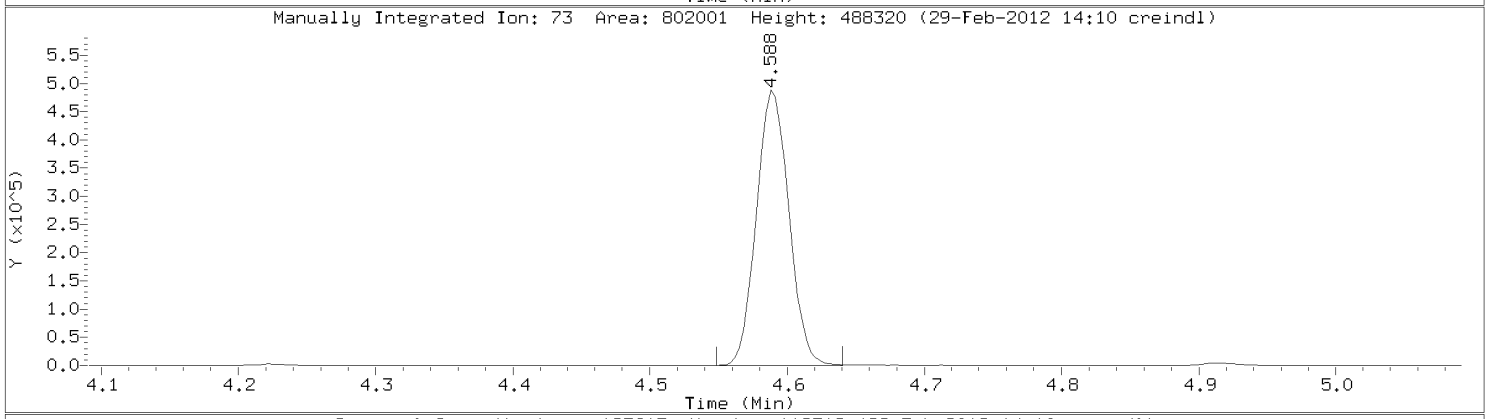


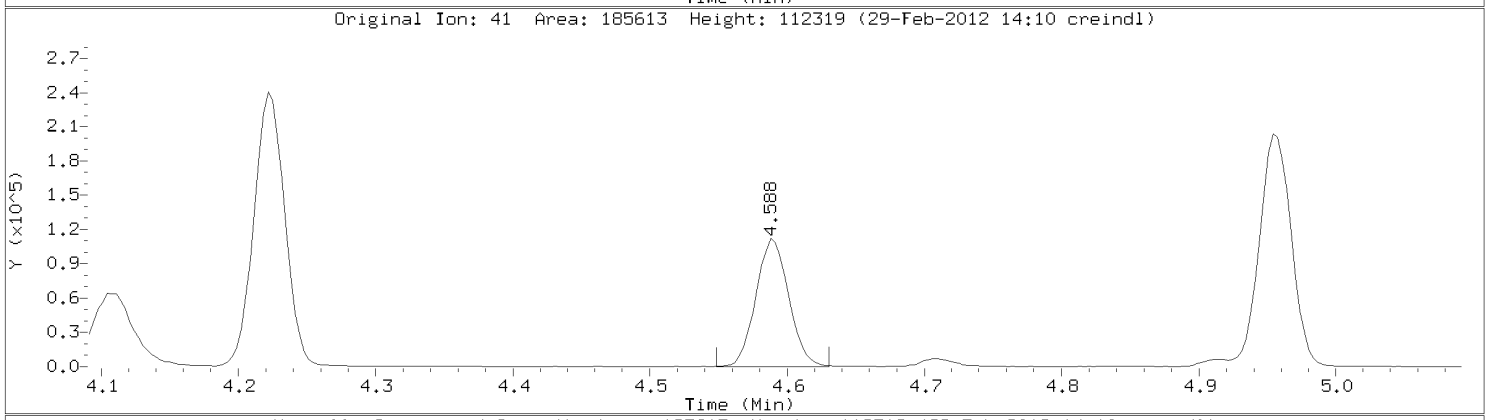


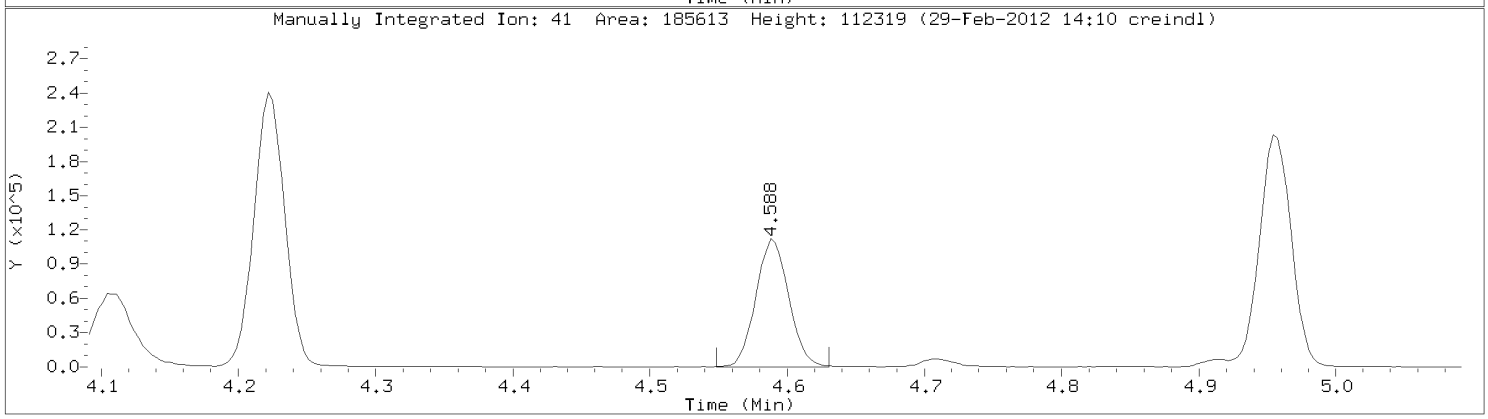
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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



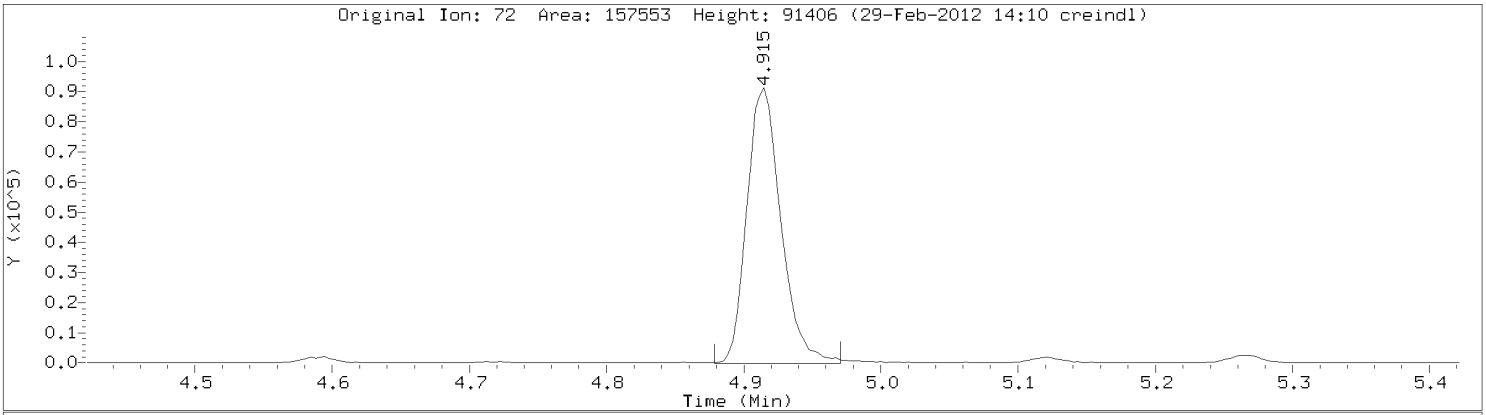


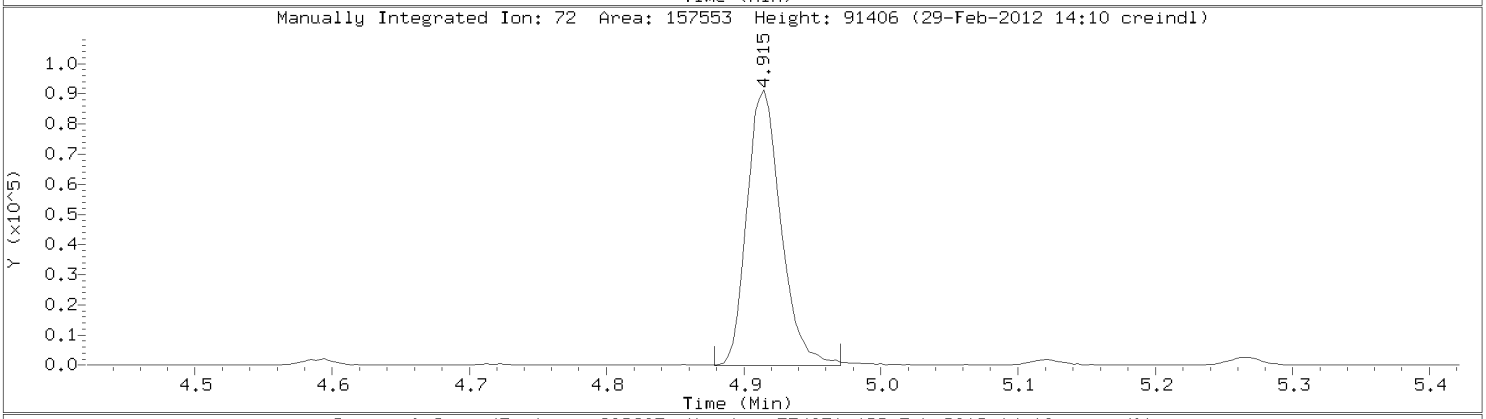


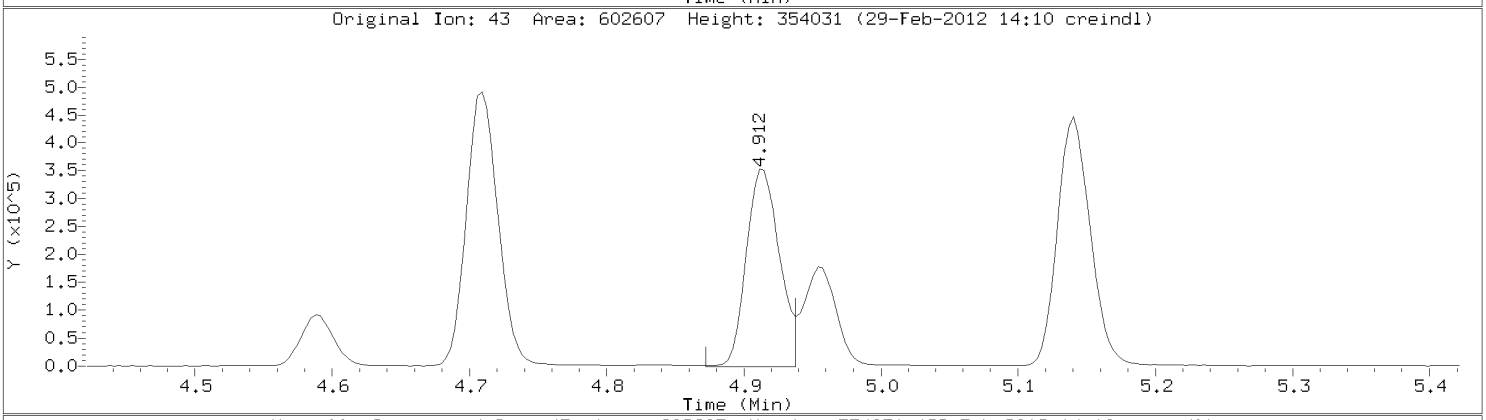


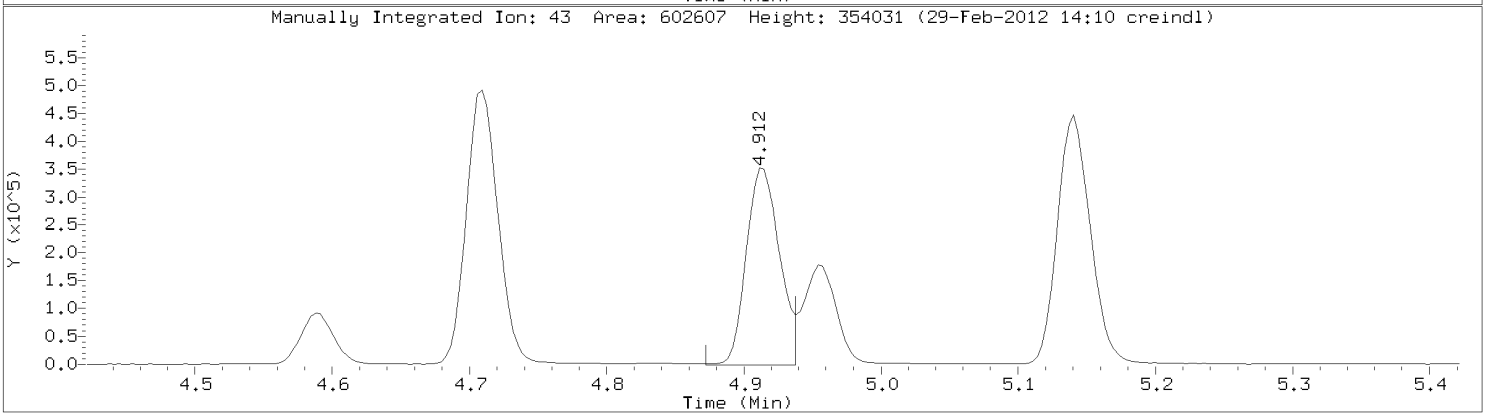
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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



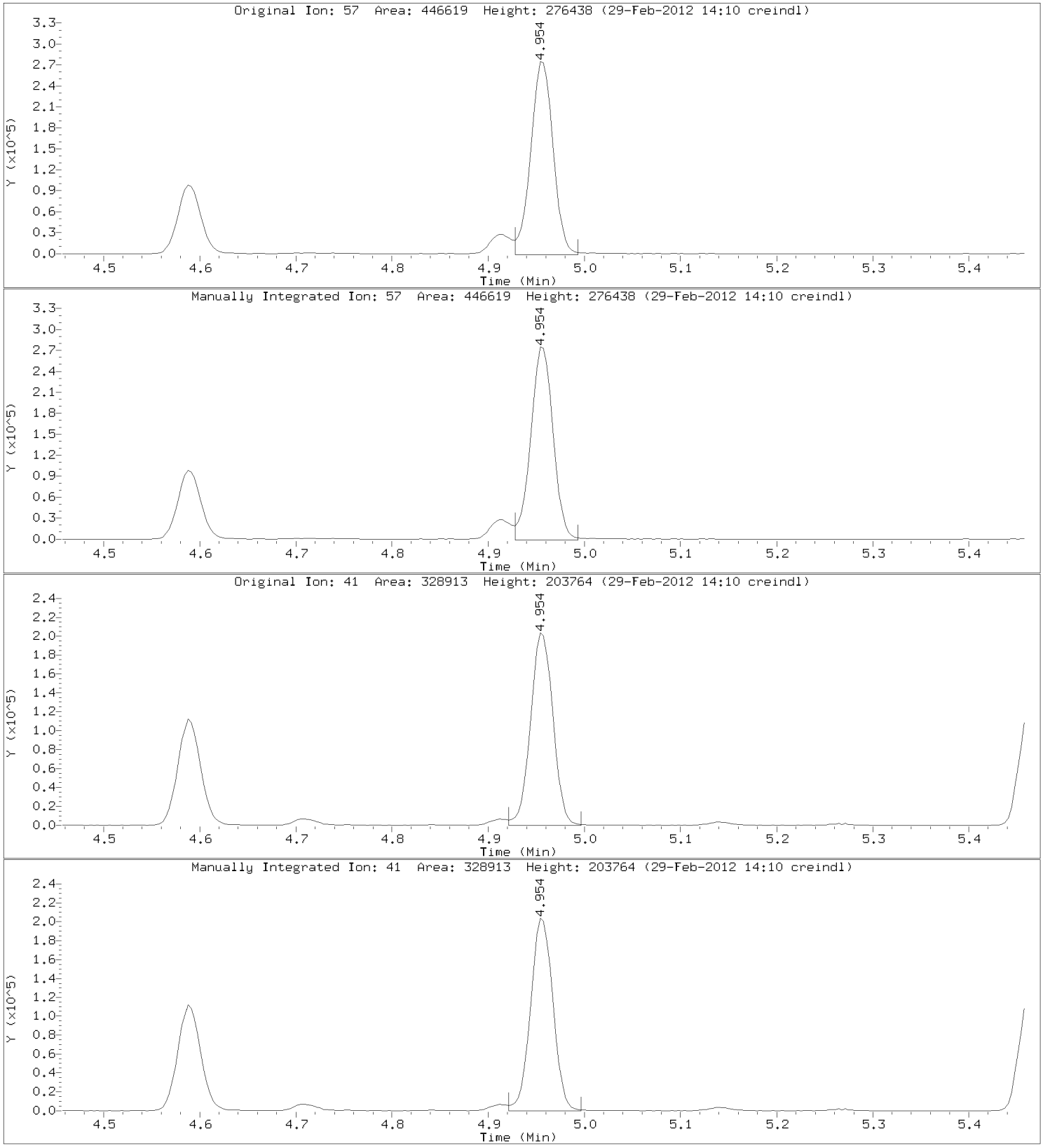




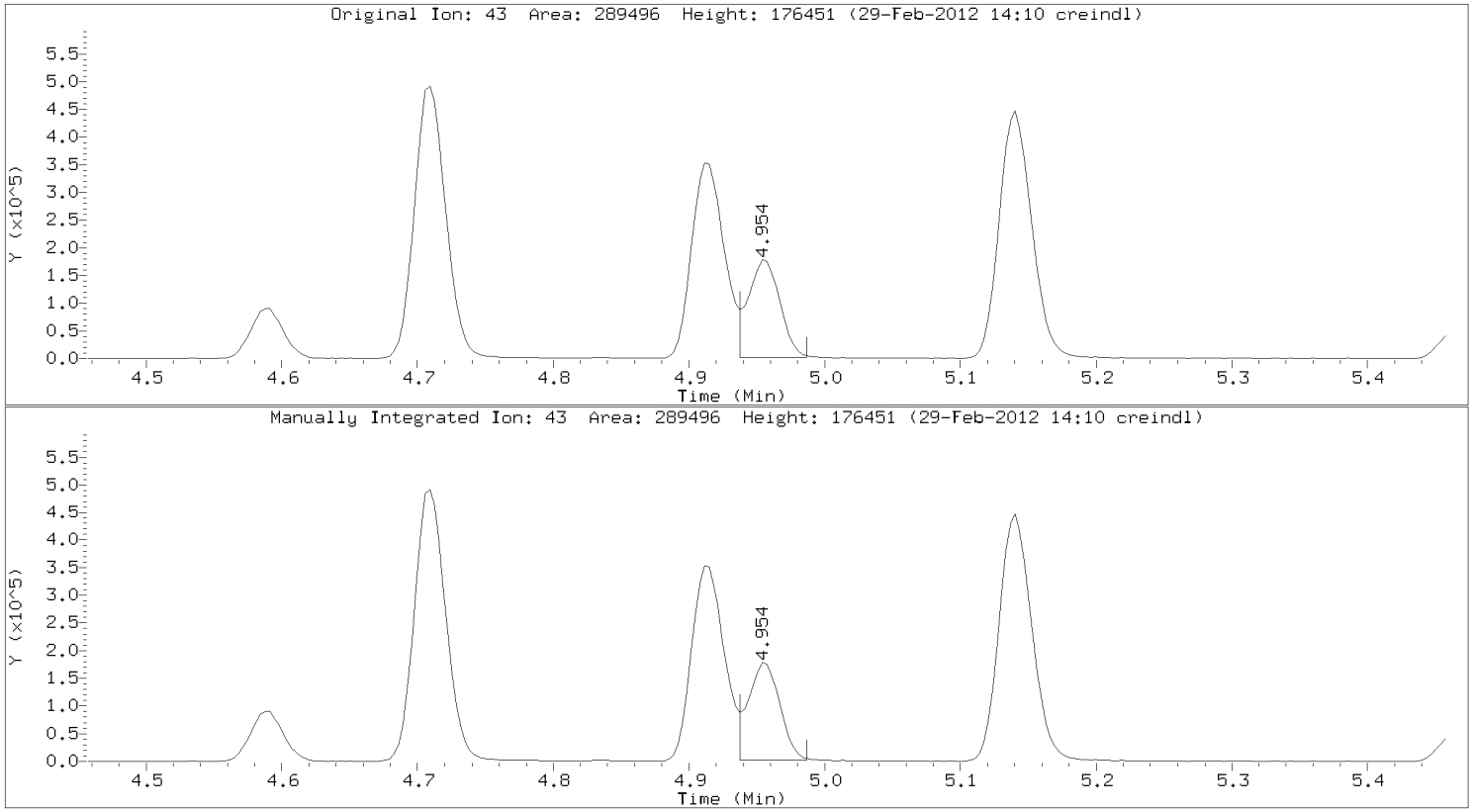


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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: n-Hexane
CAS Number: 110-54-3

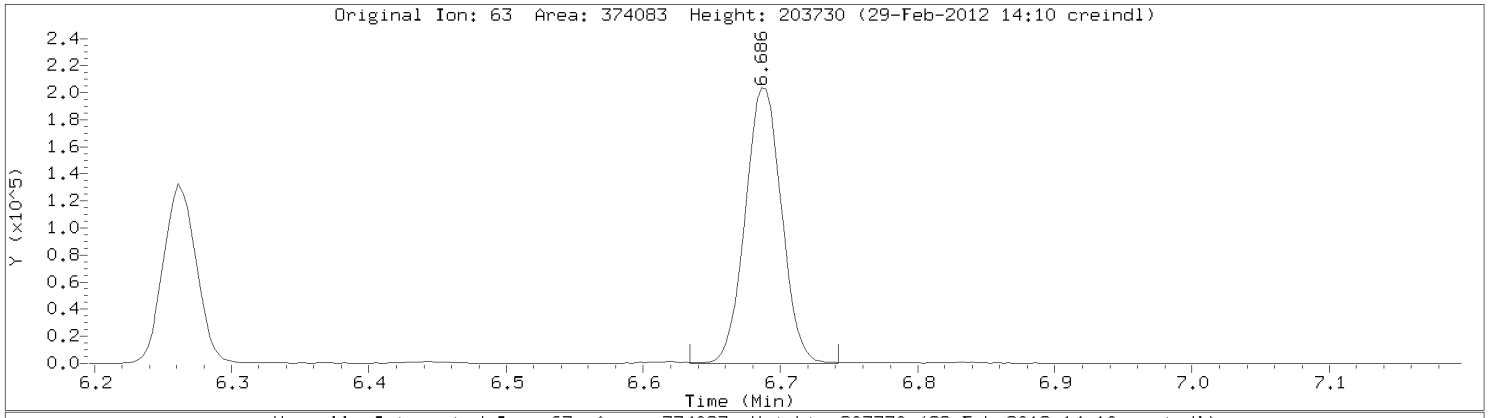


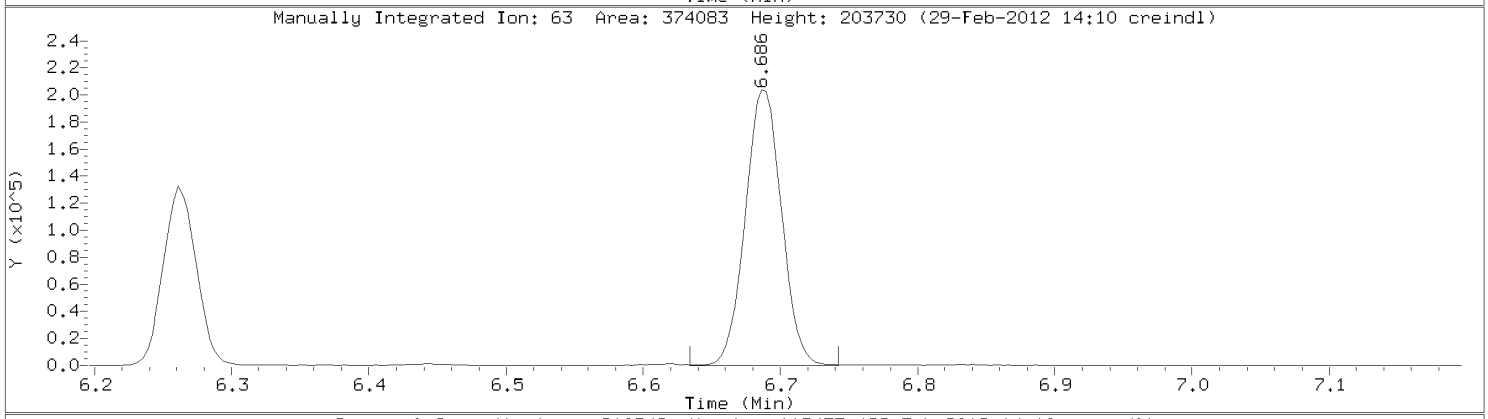
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Instrument: 10airD.i
Lab Sample ID: 1146107

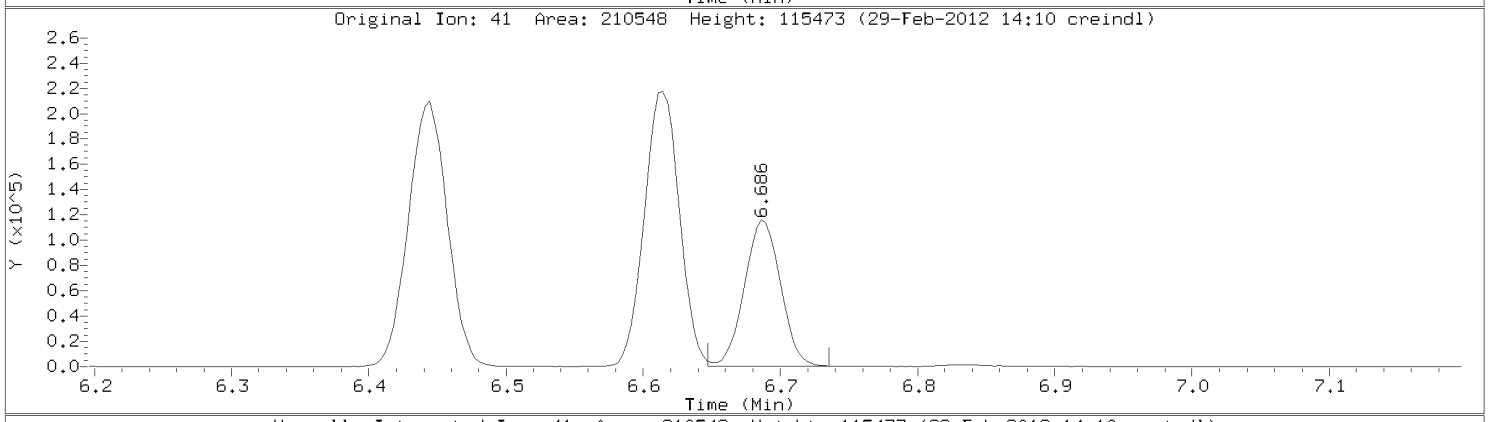


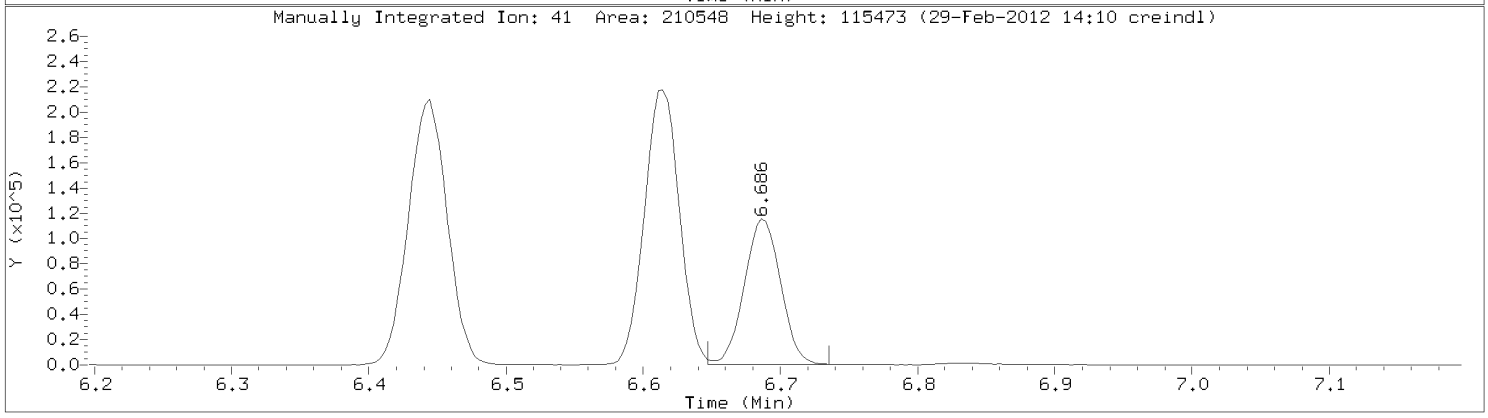
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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

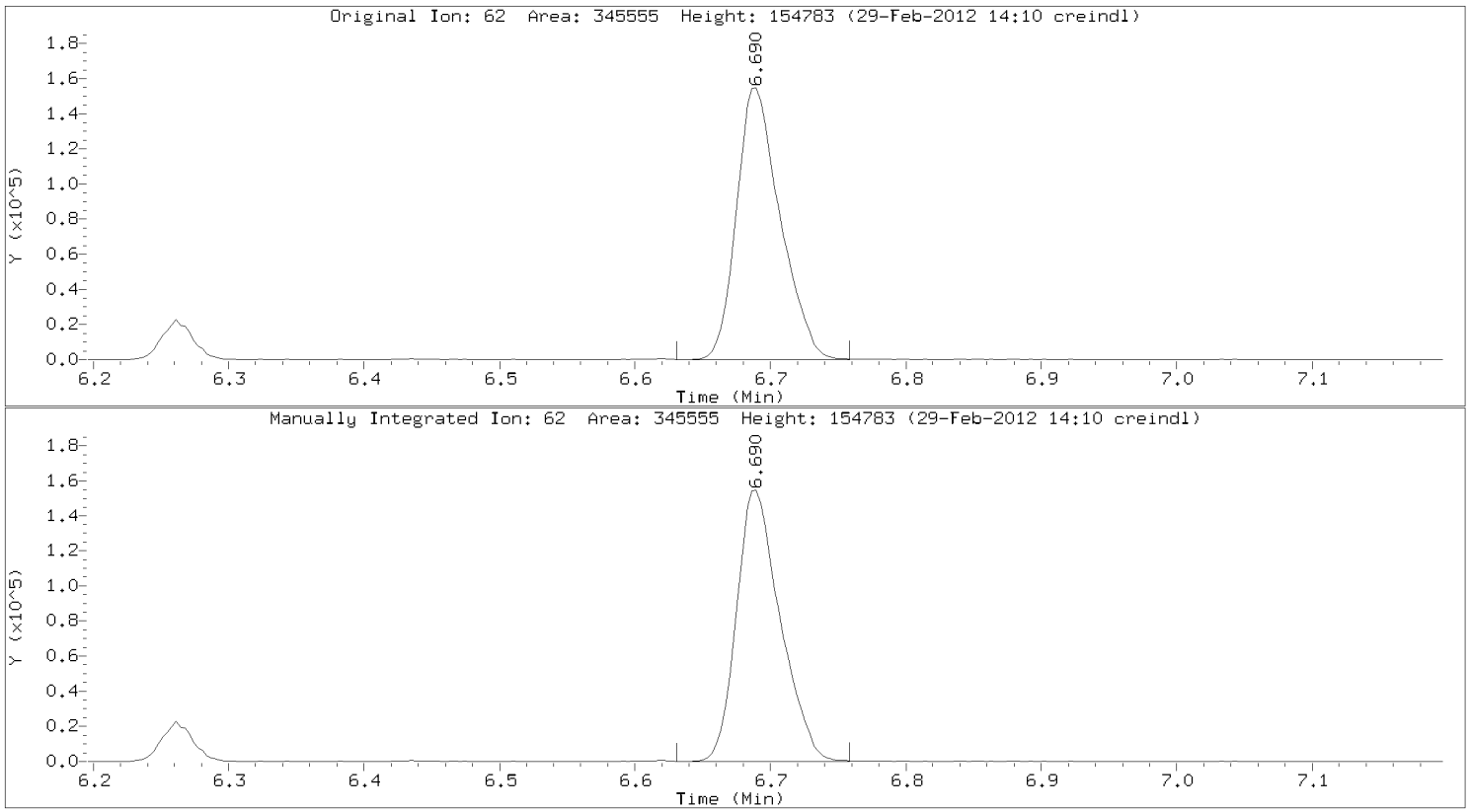






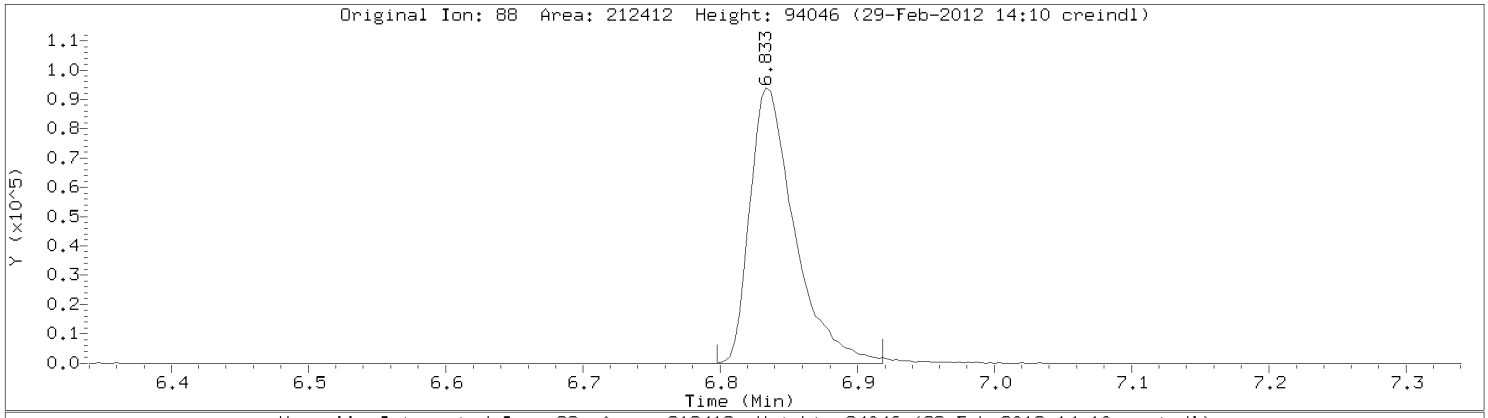


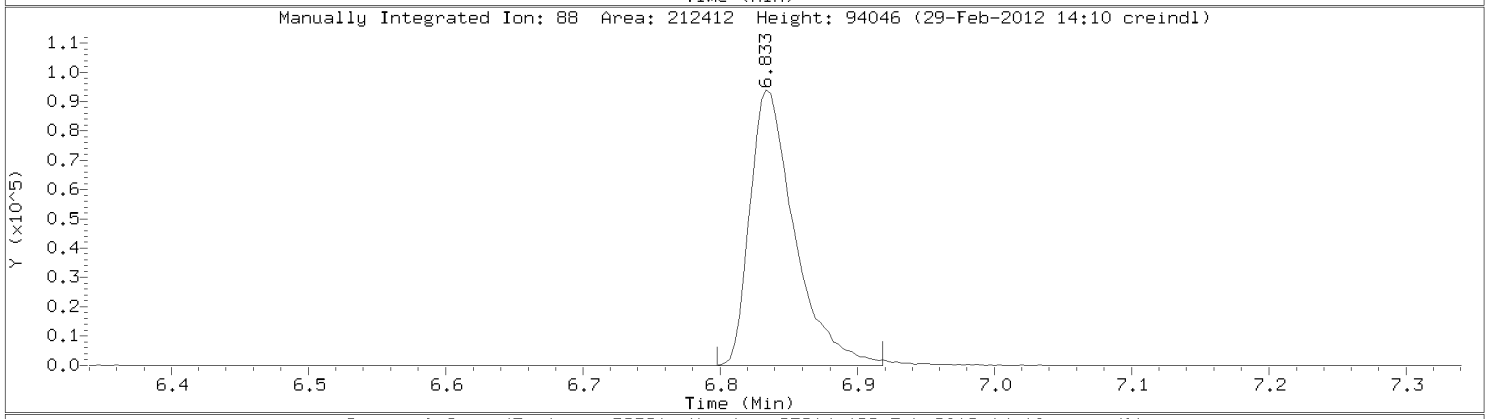
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Instrument: 10airD.i
Lab Sample ID: 1146107

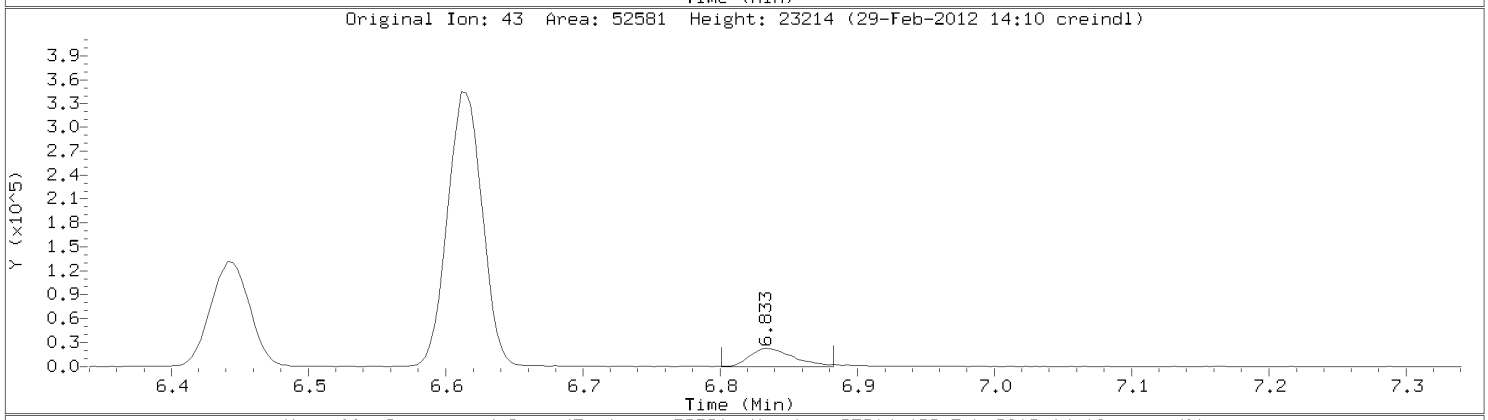


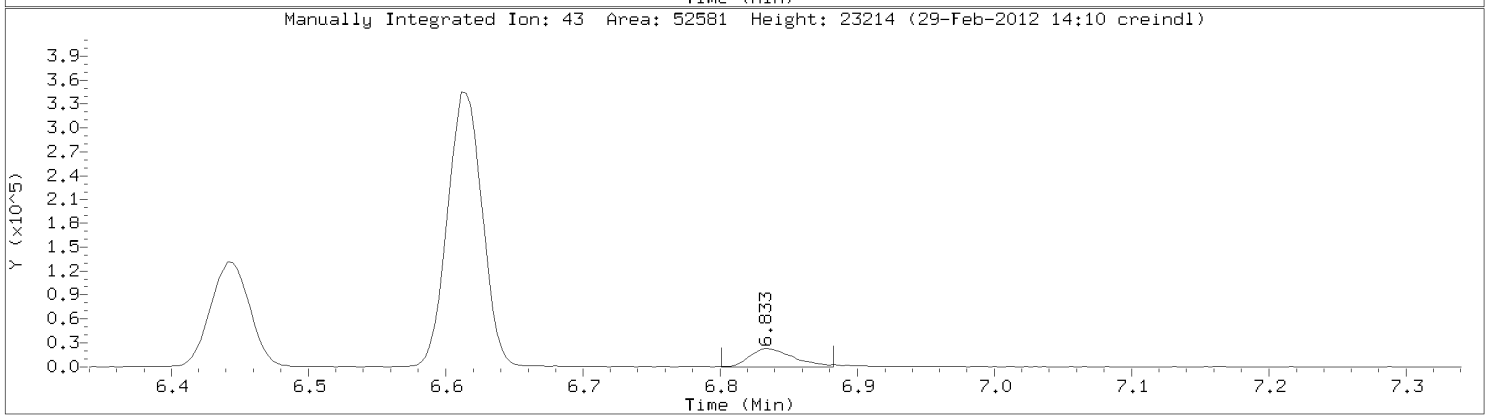
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Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: 1,4-Dioxane
CAS Number: 123-91-1



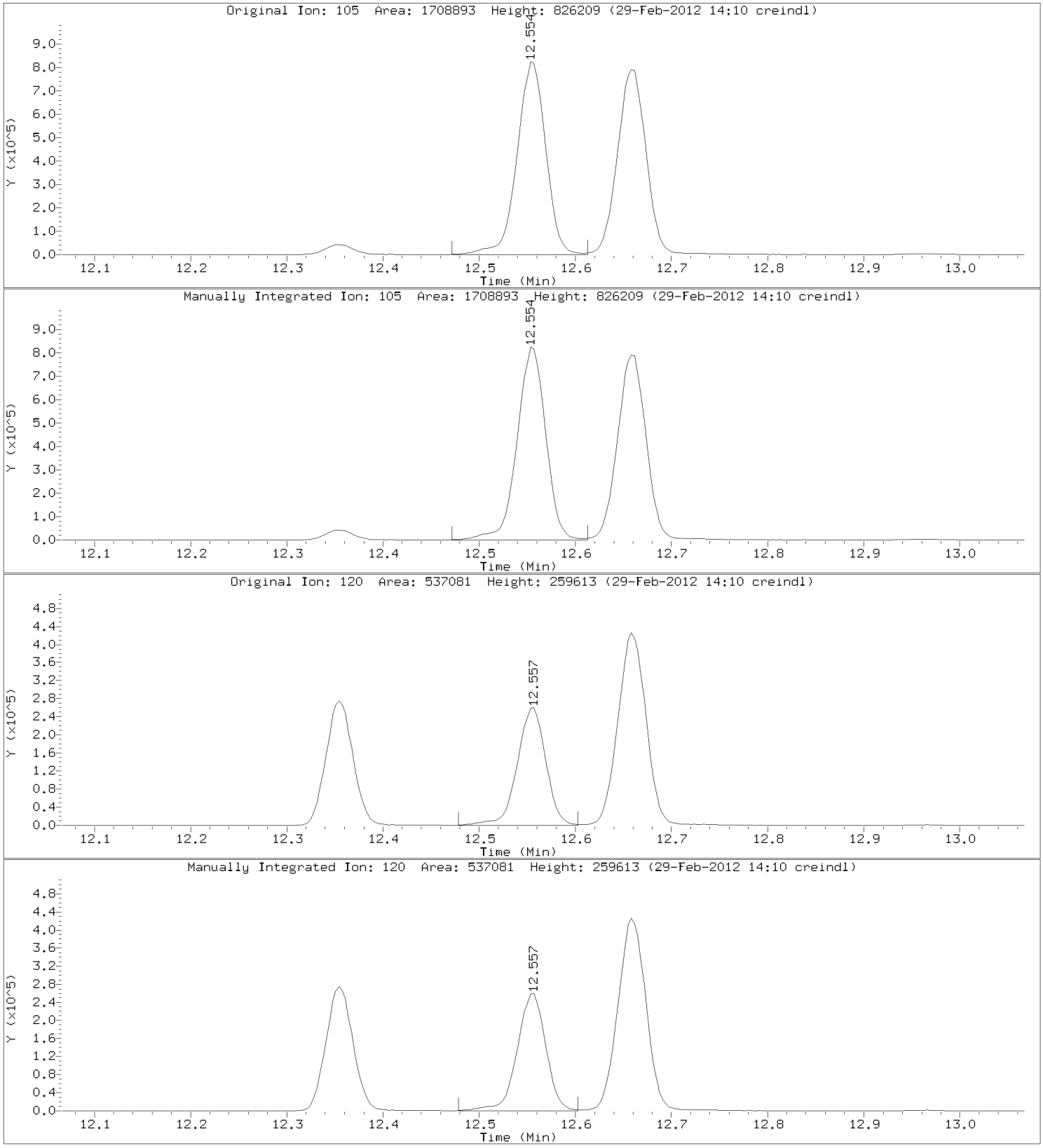




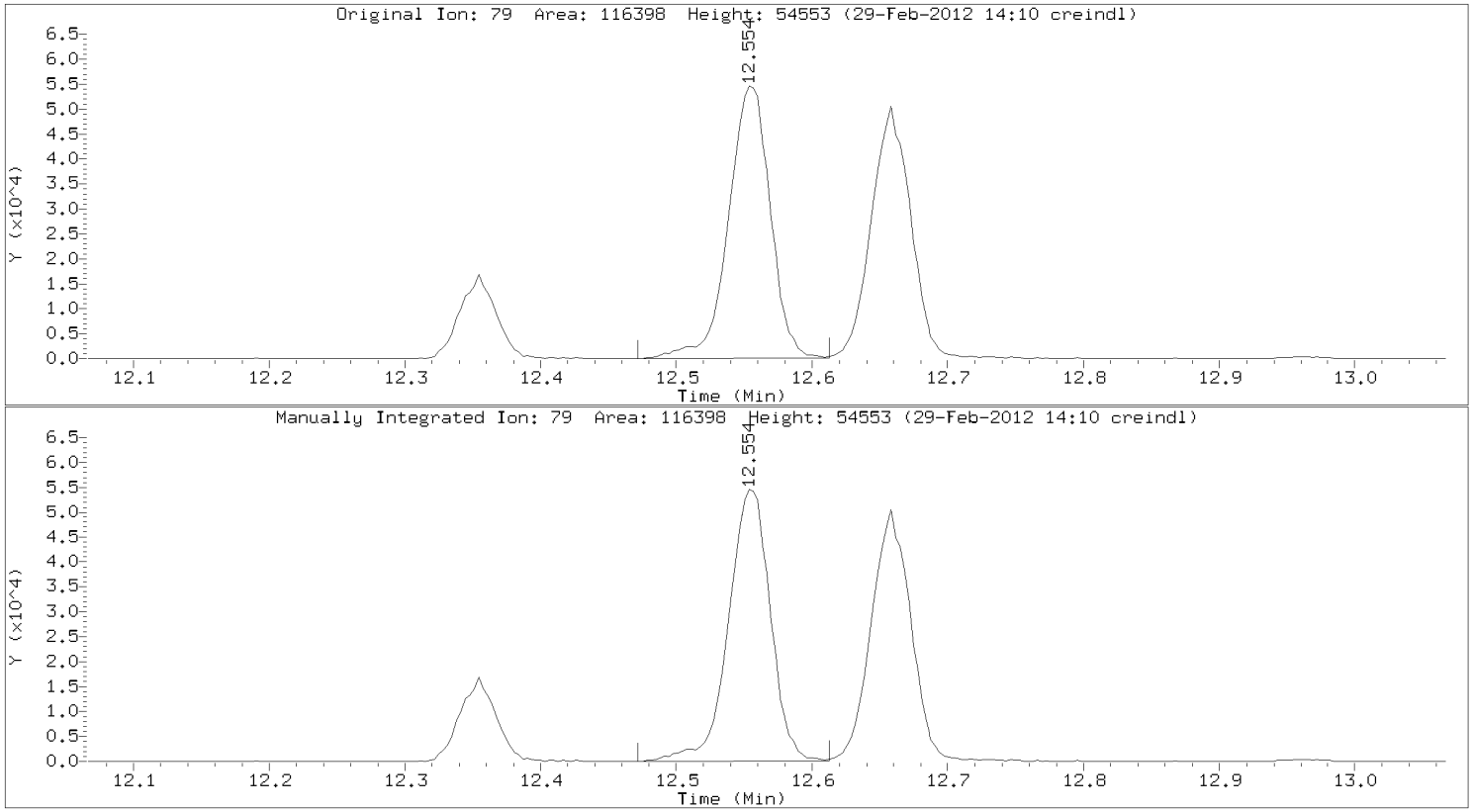


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05813LL.D
Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107

Compound: 4-Ethyltoluene
CAS Number: 622-96-8



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05813LL.D
Injection Date: 27-FEB-2012 18:09
Instrument: 10airD.i
Lab Sample ID: 1146107



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D
Report Date: 24-Feb-2012 08:31

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05406.D
Lab Smp Id: 1144380
Inj Date : 23-FEB-2012 14:33
Operator : CJR Inst ID: 10airB.i
Smp Info : 5058707001, dup 1.26x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 6 QC Sample: DUP
Dil Factor: 1.26000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.260	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	Compound Not Detected.					
	8 Chloroethane	64	Compound Not Detected.					
	13 1,1-Dichloroethene	61	Compound Not Detected.					
	17 trans-1,2-dichloroethene	96	Compound Not Detected.					
	18 Methyl Tert Butyl Ether	73	Compound Not Detected.					
	20 1,1-Dichloroethane	63	Compound Not Detected.					
$	21 Hexane-d14(S)	66	5.294	5.301	(0.784)	623145	10.0477	10.0
	24 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,2-Dichloroethane	62	Compound Not Detected.					
	31 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1480373	10.0000	
	38 Trichloroethene	130	Compound Not Detected.					
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1347487	11.4072	11.4
	44 Toluene	91	8.672	8.672	(1.284)	115211	0.56789	0.716(R)
	49 Tetrachloroethene	166	9.681	9.681	(0.925)	1515	0.01260	0.0159(aQR)
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	830544	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.033)	141031	0.68197	0.859(R)
	53 m&p-Xylene	91	10.980	10.993	(1.049)	462843	2.61847	3.30(R)
	57 o-Xylene	91	11.568	11.574	(1.105)	130990	0.85489	1.08(R)
	60 N-Propylbenzene	91	Compound Not Detected.					
$	66 1,4-dichlorobenzene-d4 (S)	150	14.269	14.275	(1.364)	527442	9.95232	9.95

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D
Report Date: 24-Feb-2012 08:31

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D
Report Date: 24-Feb-2012 08:31

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05406.D
Lab Smp Id: 1144380
Analysis Type: VOA
Quant Type: ISTD
Operator: CJR
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1480373	-13.49
50 Chlorobenzene - d	907290	544374	1270206	830544	-8.46

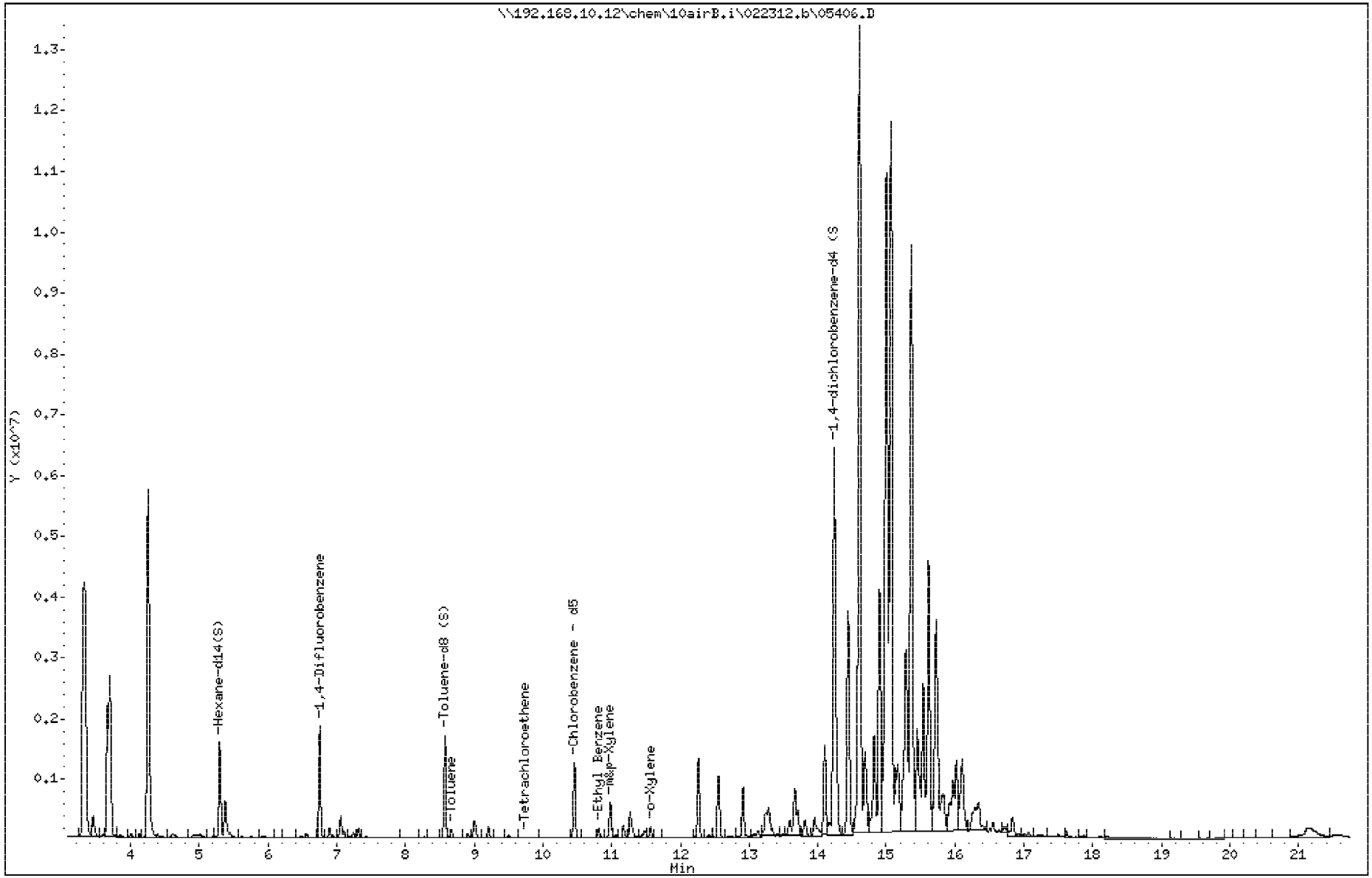
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D
Date : 23-FEB-2012 14:33
Client ID:
Sample Info: 5058707001, dup 1.26x

Instrument: 10airB.i
Operator: CJR
Column diameter: 0.32

Column phase: J&W DB-5



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D

Date : 23-FEB-2012 14:33

Client ID:

Instrument: 10airB.i

Sample Info: 5058707001, dup 1.26x

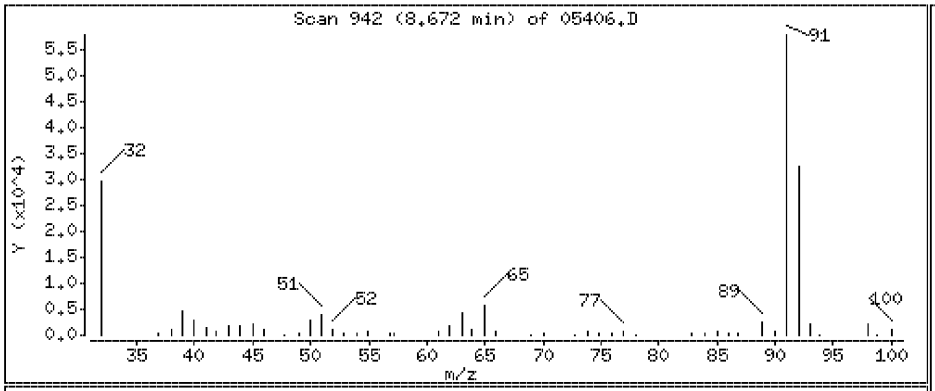
Operator: CJR

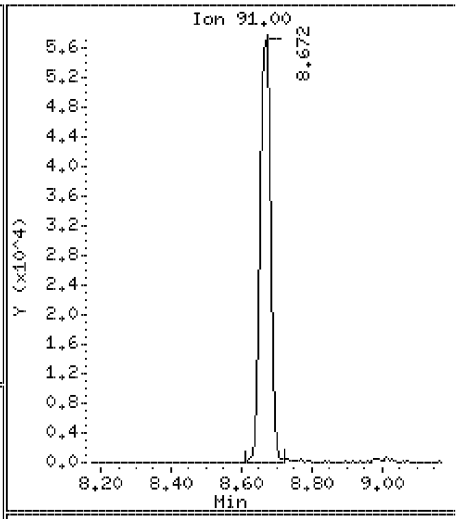
Column phase: J&W DB-5

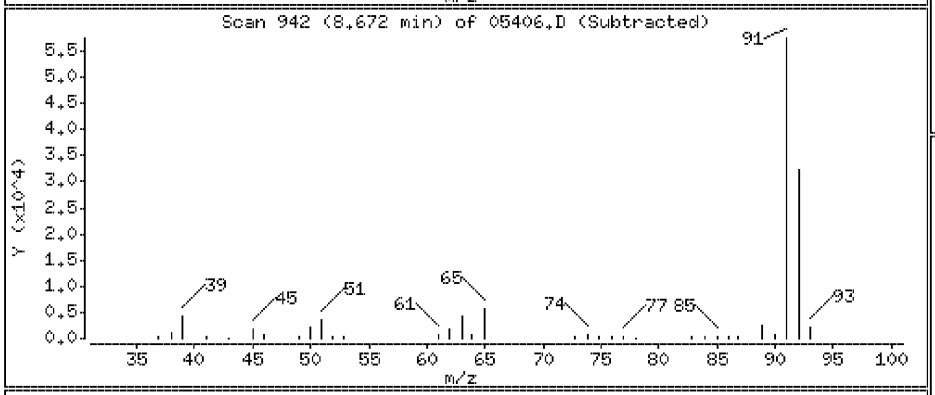
Column diameter: 0.32

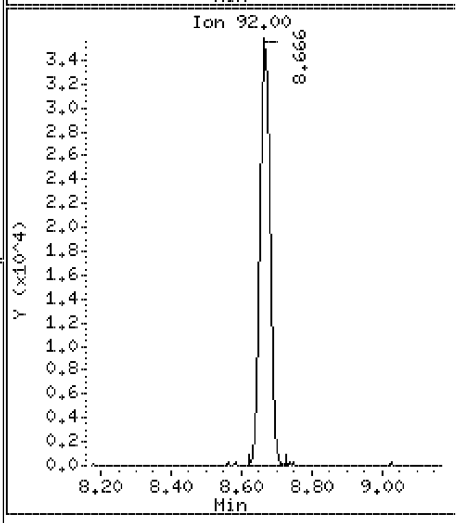
44 Toluene

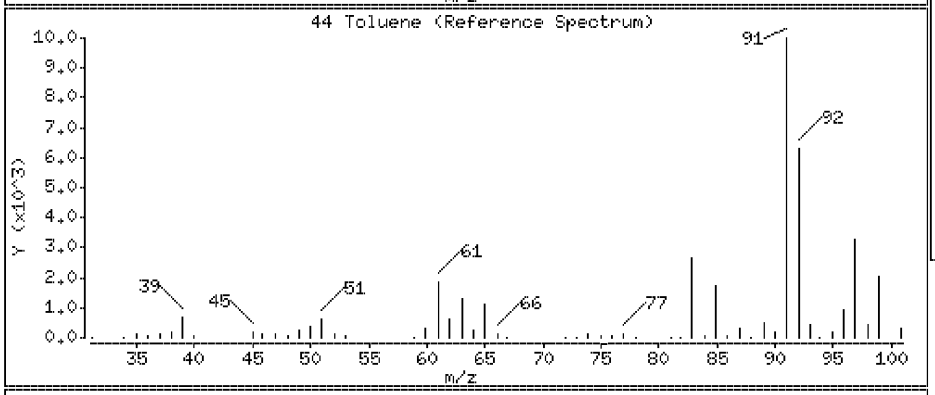
Concentration: 0.716 ppbv

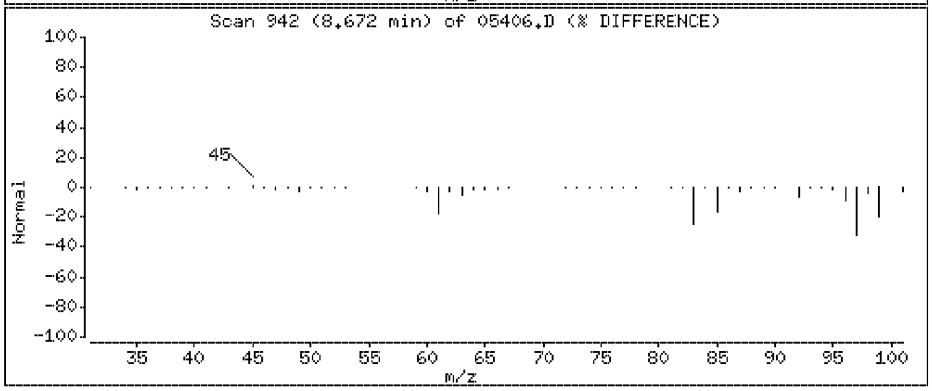












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D

Date : 23-FEB-2012 14:33

Client ID:

Instrument: 10airB.i

Sample Info: 5058707001, dup 1.26x

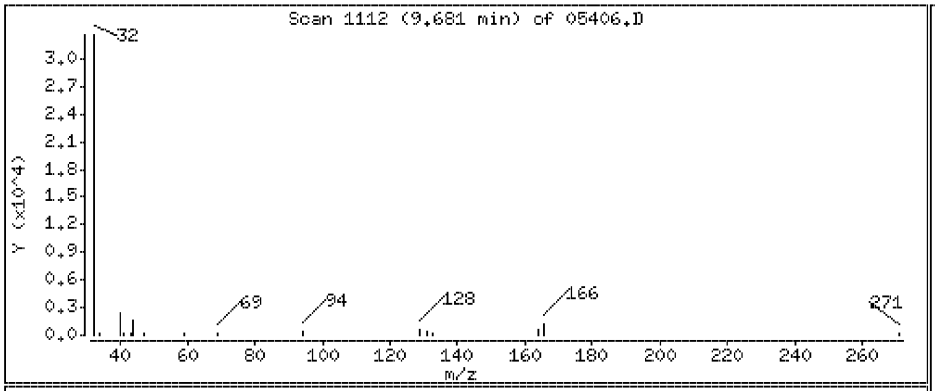
Operator: CJR

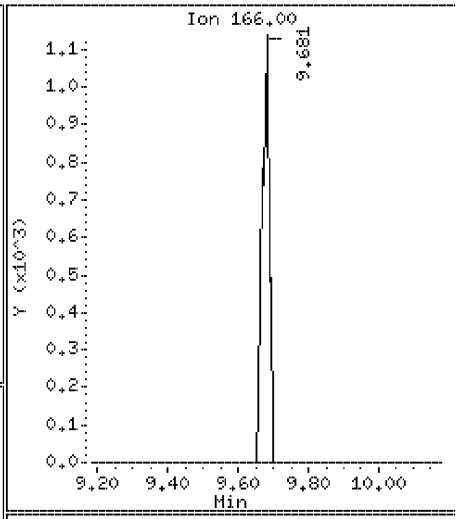
Column phase: J&W DB-5

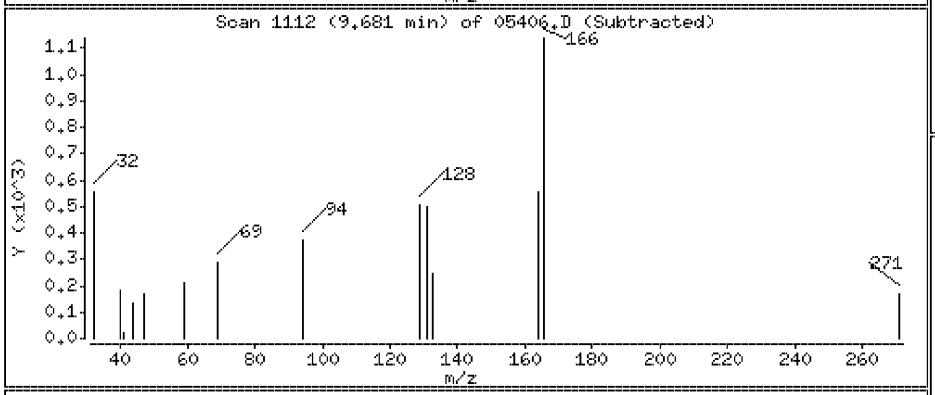
Column diameter: 0.32

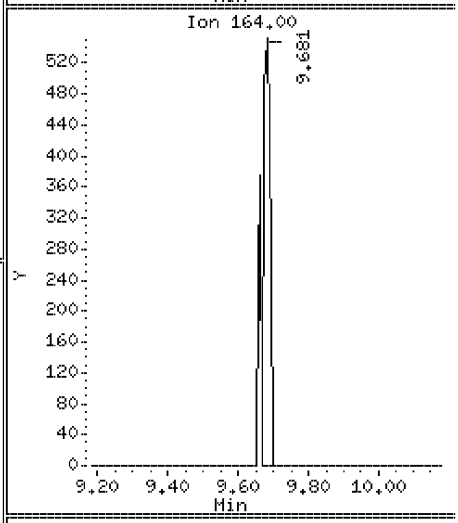
49 Tetrachloroethene

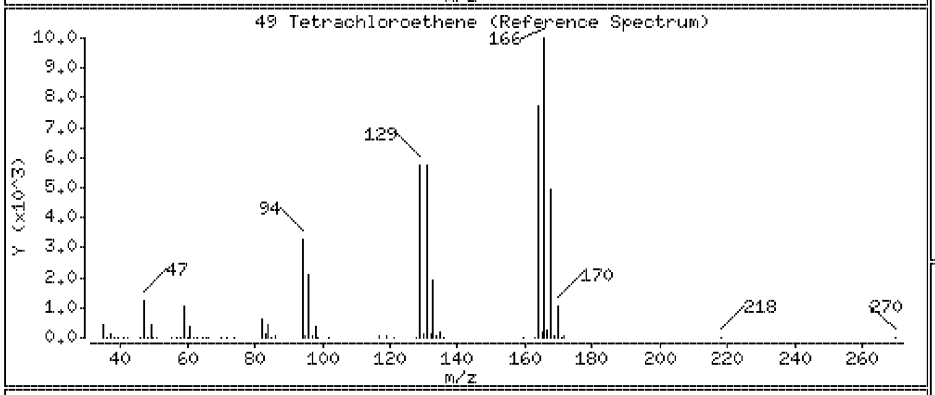
Concentration: 0.0159 ppbv

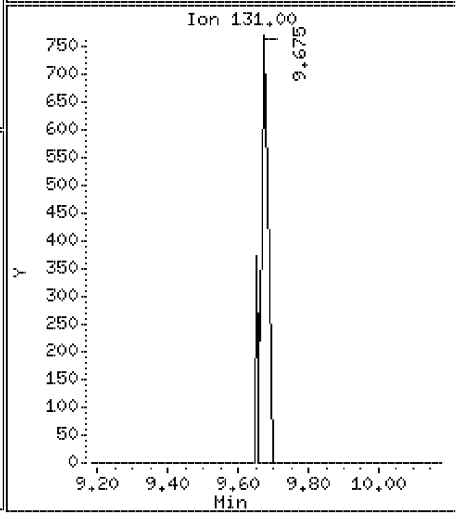


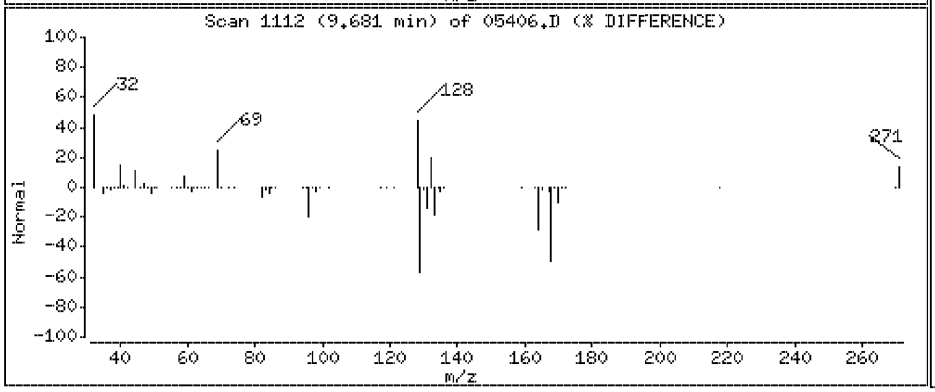












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D

Date : 23-FEB-2012 14:33

Client ID:

Instrument: 10airB.i

Sample Info: 5058707001, dup 1.26x

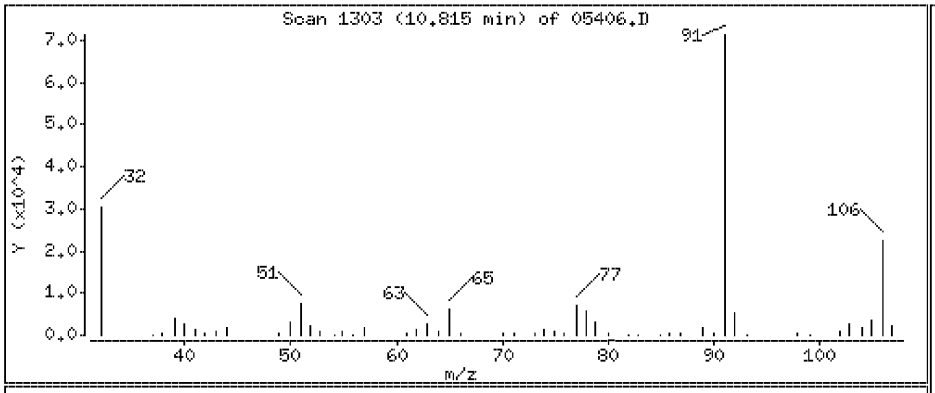
Operator: CJR

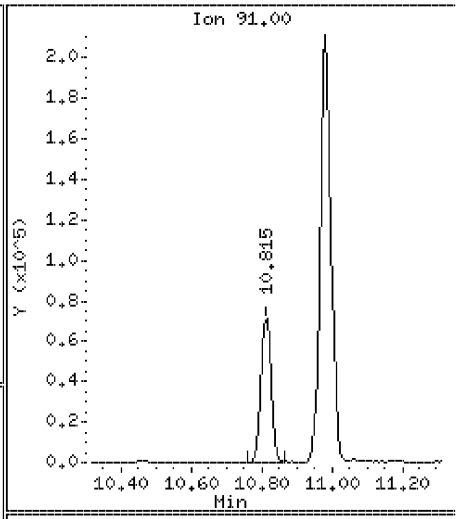
Column phase: J&W DB-5

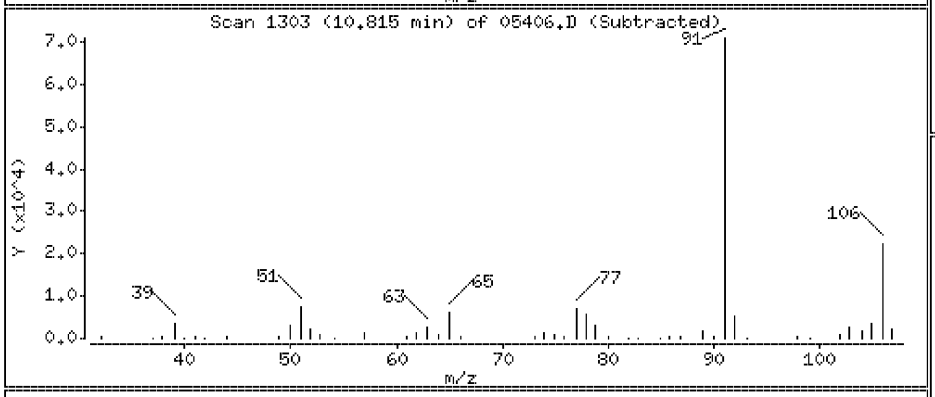
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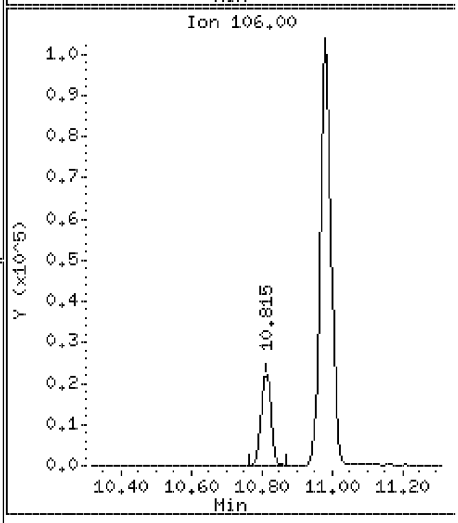
52 Ethyl Benzene

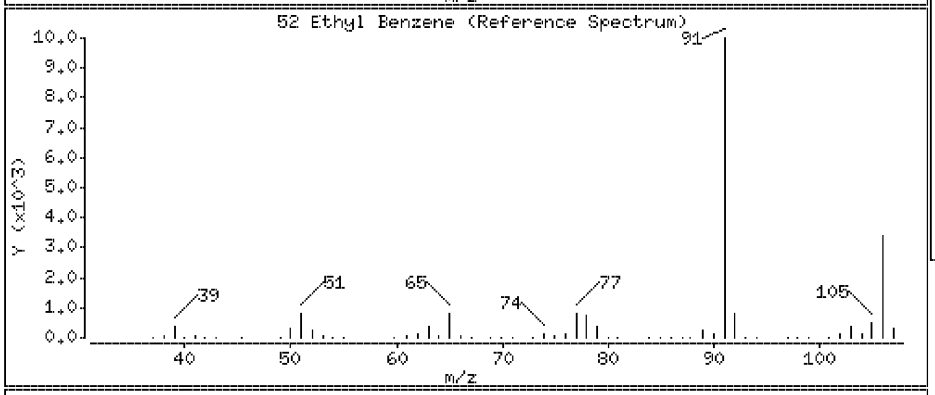
Concentration: 0.859 ppbv

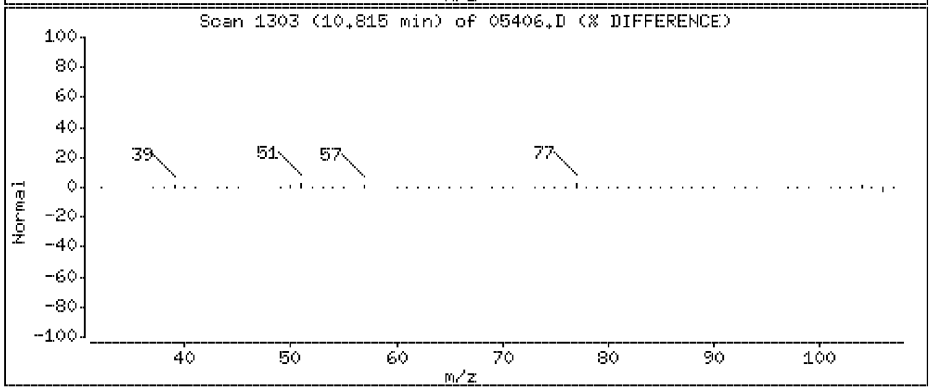












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D

Date : 23-FEB-2012 14:33

Client ID:

Instrument: 10airB.i

Sample Info: 5058707001, dup 1.26x

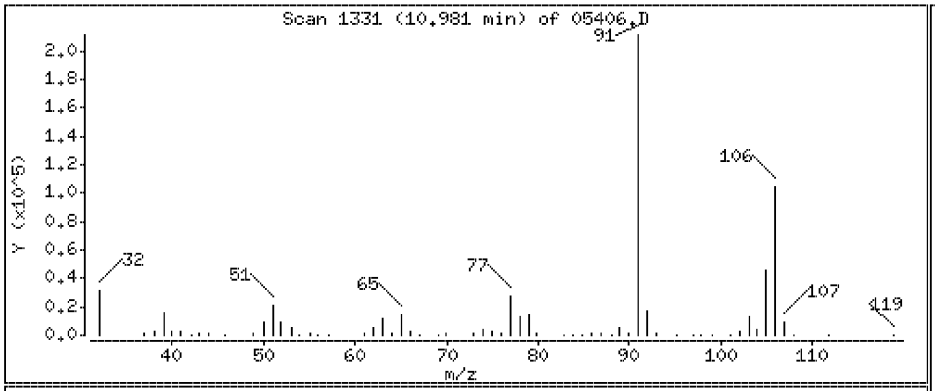
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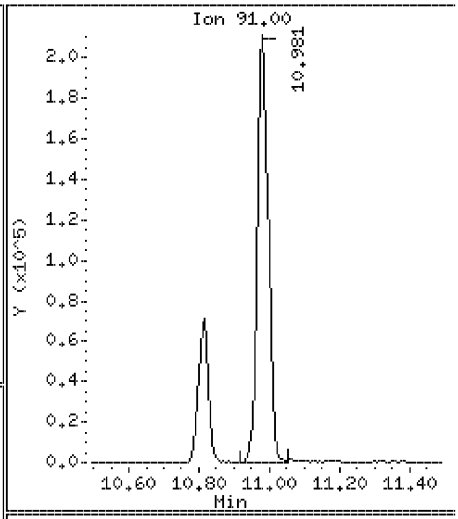
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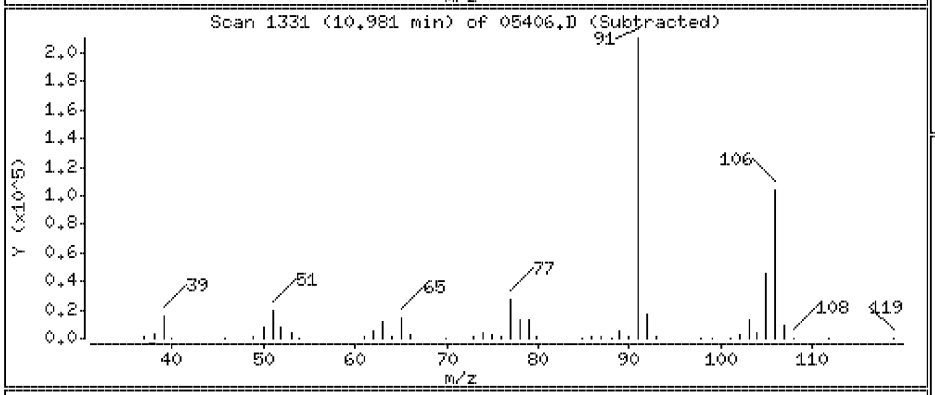
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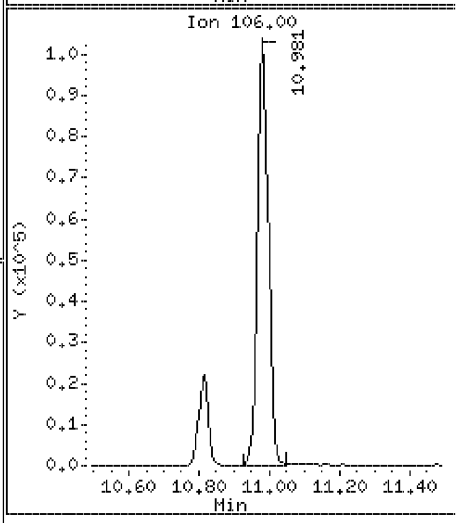
53 m&p-Xylene

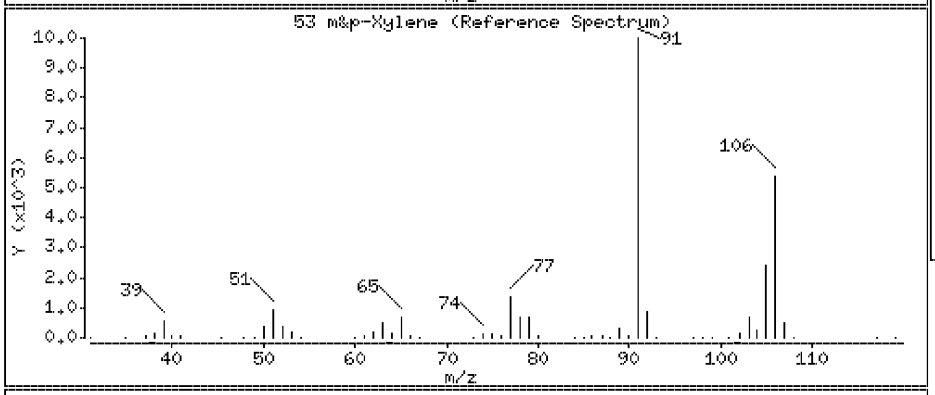
Concentration: 3.30 ppbv

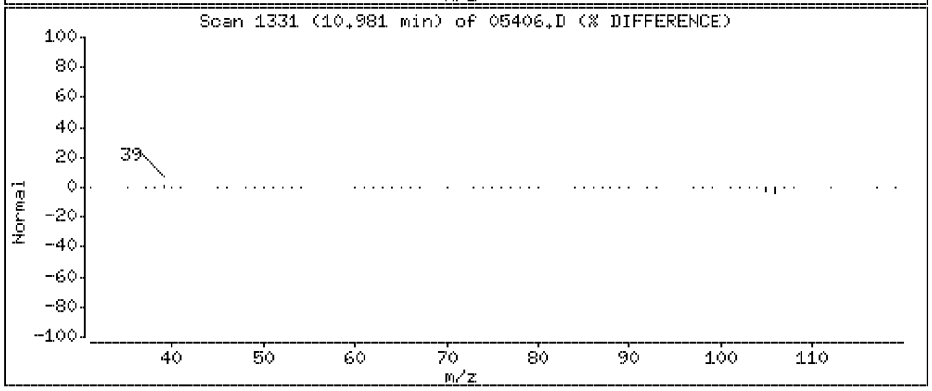












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05406.D

Date : 23-FEB-2012 14:33

Client ID:

Instrument: 10airB.i

Sample Info: 5058707001, dup 1.26x

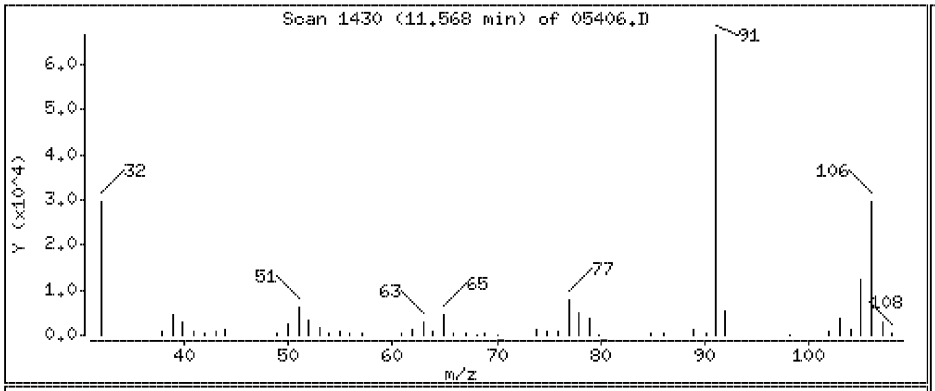
Operator: CJR

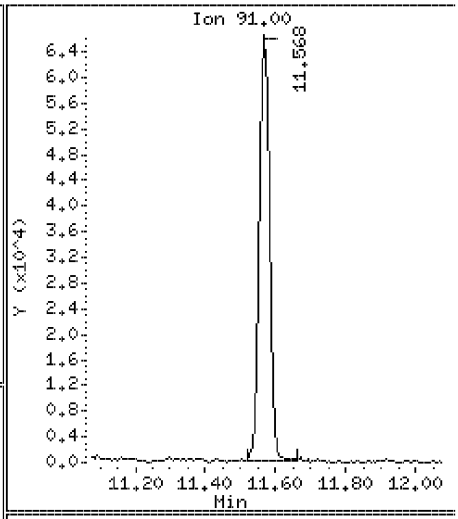
Column phase: J&W DB-5

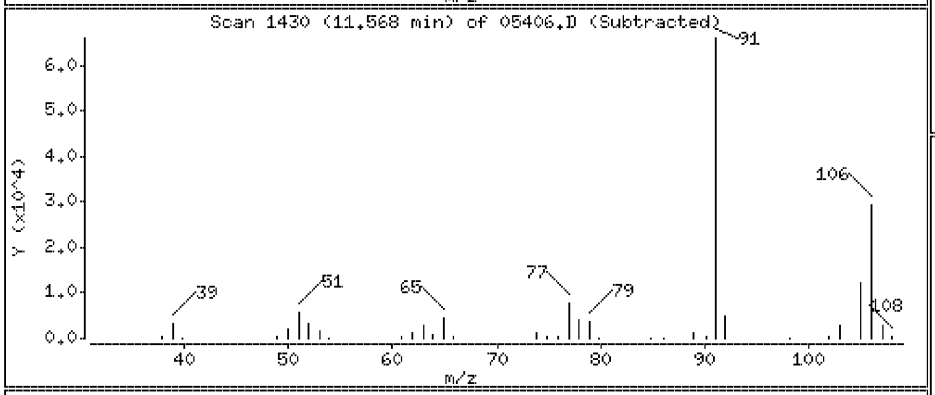
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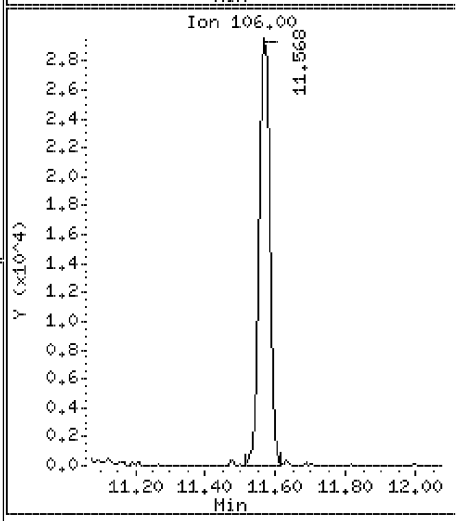
57 o-Xylene

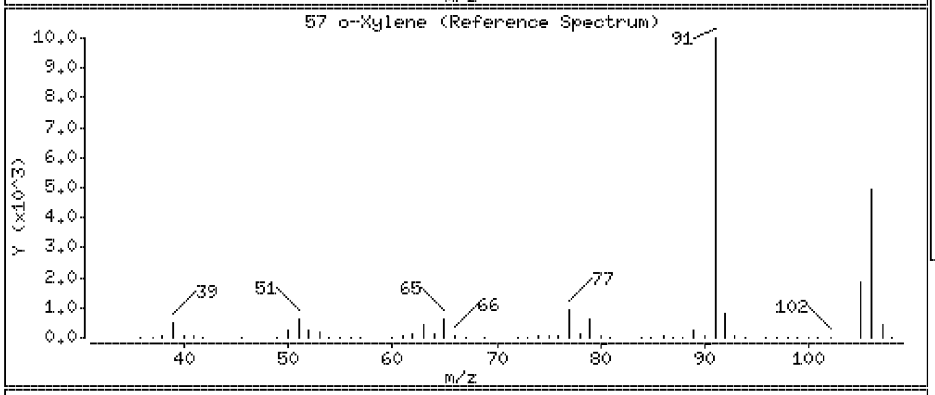
Concentration: 1.08 ppbv

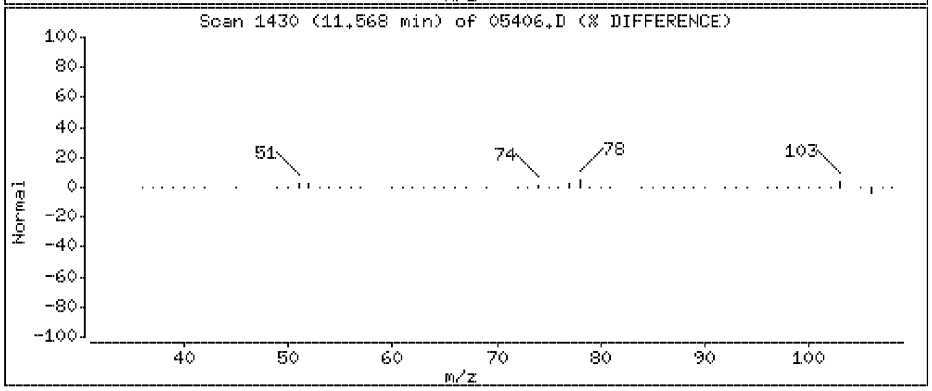












Data File: \\192.168.10.12\chem\10airB.i\022312.b/05406.D
Injection Date: 23-FEB-2012 14:33
Instrument: 10airB.i
Lab Sample ID: 1144380
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D
Report Date: 29-Feb-2012 14:10

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05821.D
Lab Smp Id: 1146413
Inj Date : 27-FEB-2012 22:06
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info : 14340
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 28-Feb-2012 08:35 skaufhold Quant Type: ISTD
Cal Date : 27-FEB-2012 15:15 Cal File: 05811.D
Als bottle: 21 QC Sample: DUP
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
1	Propylene	41	3.054	3.055	(0.488)	44817	2.40327	3.22(R)
2	Dichlorodifluoromethane	85	3.081	3.084	(0.492)	30274	0.18567	0.249(R)
3	Dichlorotetrafluoroethane	85	Compound Not Detected.					
4	Chloromethane	50	3.185	3.186	(0.509)	9413	0.28198	0.378(R)
5	Vinyl chloride	62	Compound Not Detected.					
6	1,3-Butadiene	54	Compound Not Detected.					
7	Bromomethane	94	Compound Not Detected.					
8	Chloroethane	64	Compound Not Detected.					
9	Ethanol	31	3.581	3.578	(0.572)	62339	4.04142	5.42(R)
10	Vinyl Bromide	106	Compound Not Detected.					
11	Acrolein	56	Compound Not Detected.					
12	Trichlorofluoromethane	101	3.796	3.800	(0.606)	15268	0.15678	0.210(R)
13	Acetone	43	3.826	3.833	(0.611)	4678972	91.5243	123(AR)
14	Isopropyl Alcohol	45	3.872	3.869	(0.618)	33621	0.56331	0.755(QR)
15	1,1-Dichloroethene	61	Compound Not Detected.					
16	Acrylonitrile	53	Compound Not Detected.					
17	Tert Butyl Alcohol	59	4.120	4.111	(0.658)	34913	0.48125	0.645(M)
18	Freon 113	101	Compound Not Detected.					
19	Methylene chloride	49	Compound Not Detected.					
20	Allyl Chloride	76	Compound Not Detected.					
21	Carbon Disulfide	76	Compound Not Detected.					
22	trans-1,2-dichloroethene	96	Compound Not Detected.					
23	Methyl Tert Butyl Ether	73	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D
Report Date: 29-Feb-2012 14:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Vinyl Acetate	43	Compound Not Detected.					
	25 1,1-Dichloroethane	63	Compound Not Detected.					
$	26 Hexane-d14(S)	66	4.833	4.836	(0.772)	335562	9.94610	9.95
	27 Methyl Ethyl Ketone	72	4.911	4.921	(0.784)	76558	5.37147	7.20(Q)
	28 n-Hexane	57	Compound Not Detected.					
	29 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	30 Ethyl Acetate	43	Compound Not Detected.					
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	Compound Not Detected.					
	33 Tetrahydrofuran	42	Compound Not Detected.					
	34 1,1,1-Trichloroethane	97	Compound Not Detected.					
	35 1,2-Dichloroethane	62	Compound Not Detected.					
	36 Benzene	78	6.049	6.056	(0.966)	19287	0.21679	0.290(R)
	37 Carbon tetrachloride	117	Compound Not Detected.					
	38 Cyclohexane	56	Compound Not Detected.					
*	39 1,4-Difluorobenzene	114	6.261	6.268	(1.000)	1416872	10.0000	
	40 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	41 Heptane	43	Compound Not Detected.					
	42 1,2-Dichloropropane	63	Compound Not Detected.					
	43 Trichloroethene	130	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Bromodichloromethane	83	Compound Not Detected.					
	46 Methyl Isobutyl Ketone	43	Compound Not Detected.					
	47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	48 trans-1,3-Dichloropropene	75	Compound Not Detected.					
$	49 Toluene-d8 (S)	98	8.042	8.055	(1.285)	1166980	9.89387	9.89
	50 Toluene	91	8.134	8.144	(1.299)	87209	0.71773	0.962(R)
	51 1,1,2-Trichloroethane	97	Compound Not Detected.					
	52 Methyl Butyl Ketone	43	8.454	8.465	(0.853)	44059	0.41859	0.561(RM)
	53 Dibromochloromethane	129	Compound Not Detected.					
	54 1,2-Dibromoethane	107	Compound Not Detected.					
	55 Tetrachloroethene	166	9.121	9.135	(0.921)	619	0.14814	0.198(QRM)
*	56 Chlorobenzene - d5	117	9.906	9.919	(1.000)	758094	10.0000	
	57 Chlorobenzene	112	Compound Not Detected.					
	58 Ethyl Benzene	91	10.255	10.272	(1.035)	85830	0.70603	0.946(R)
	59 m&p-Xylene	91	10.425	10.445	(1.052)	272938	2.33886	3.13(R)
	60 2-Heptanone	43	10.700	10.730	(1.709)	108574	1.09555	1.47(AR)
	61 Bromoform	173	Compound Not Detected.					
	62 Styrene	104	10.925	10.946	(1.103)	39978	0.52264	0.700(R)
	63 o-Xylene	91	11.004	11.021	(1.111)	79695	0.80661	1.08(R)
	64 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	65 Isopropylbenzene	105	11.687	11.701	(1.180)	6441	0.08313	0.111(R)
	66 N-Propylbenzene	91	Compound Not Detected.					
	67 4-Ethyltoluene	105	12.547	12.567	(1.267)	16001	0.27181	0.364(RM)
	68 1,3,5-Trimethylbenzene	105	12.648	12.671	(1.277)	9903	0.19315	0.259(RM)
	69 1,2,4-Trimethylbenzene	105	13.253	13.273	(1.338)	30023	0.41482	0.556(R)
	70 1,3-Dichlorobenzene	146	Compound Not Detected.					
	71 Sec- Butylbenzene	105	Compound Not Detected.					
$	72 1,4-dichlorobenzene-d4 (S)	150	13.691	13.711	(1.382)	306369	8.76445	8.76
	73 Benzyl Chloride	91	Compound Not Detected.					
	74 1,4-Dichlorobenzene	146	13.740	13.763	(1.387)	6487	0.17749	0.238(QRM)
	75 1,2-Dichlorobenzene	146	Compound Not Detected.					
	76 N-Butylbenzene	91	Compound Not Detected.					
	77 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D
Report Date: 29-Feb-2012 14:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78 Naphthalene	128	Compound Not Detected.					
79 Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D
Report Date: 29-Feb-2012 14:10

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05821.D
Lab Smp Id: 1146413
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info: 14340

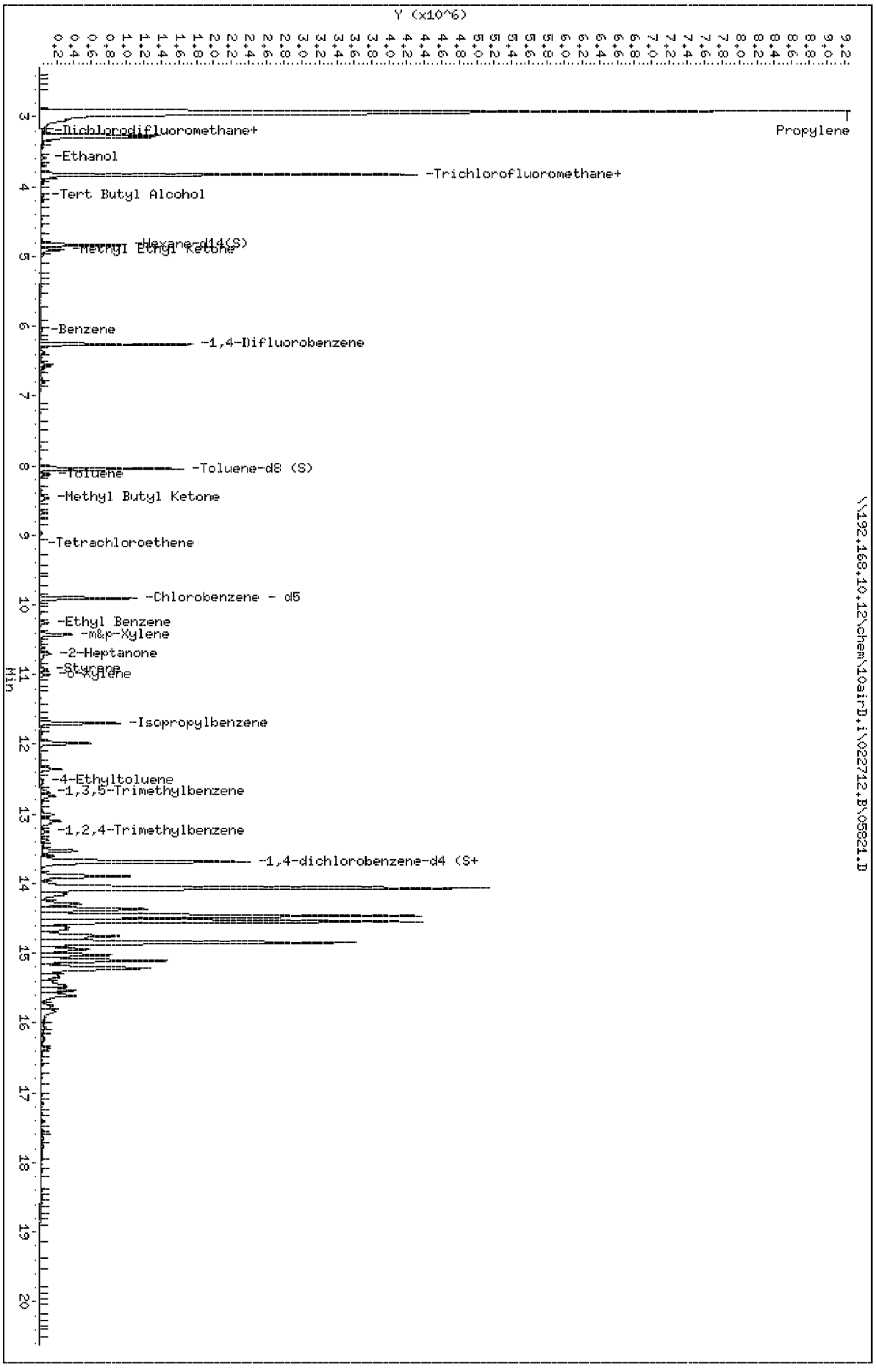
Calibration Date: 27-FEB-2012
Calibration Time: 18:09
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1416872	8.32
56 Chlorobenzene - d	717767	430660	1004874	758094	5.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	-0.00
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Y (x10^6)
Propylene
-Dichlorodifluoromethane+
-Ethanol
-Trichlorofluoromethane+
-Tert Butyl Alcohol
-Methyl Ethyl Ketone
Hexane-d14(S)
-Benzene
-1,4-Difluorobenzene
-Toluene
-Toluene-d8 (S)
-Methyl Butyl Ketone
-Tetrachloroethene
-Chlorobenzene - d5
-Ethyl Benzene
-m&p-Xylene
-2-Heptanone
-Styrene
-o-Xylene
-Isopropylbenzene
-4-Ethyltoluene
-1,3,5-Trimethylbenzene
-1,2,4-Trimethylbenzene
-1,4-dichlorobenzene-d4 (S+
Min
\\192.168.10.12\chem\10airD.i\022712.B\05824.D
Data File: \\192.168.10.12\chem\10airD.i\022712.B\05824.D
Date : 27-FEB-2012 22:06
Client ID:
Sample Info:
Column phase: J&W DB-5
Instrument: 10airD.i
Operator: SK4
Column diameter: 0.32

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Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

Sample Info:

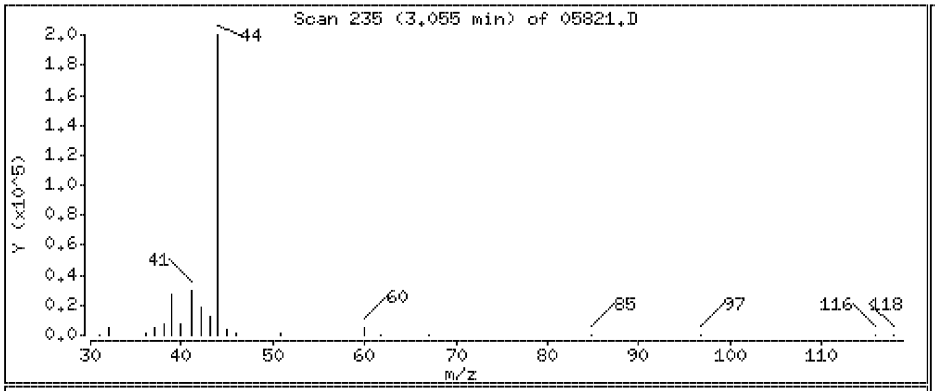
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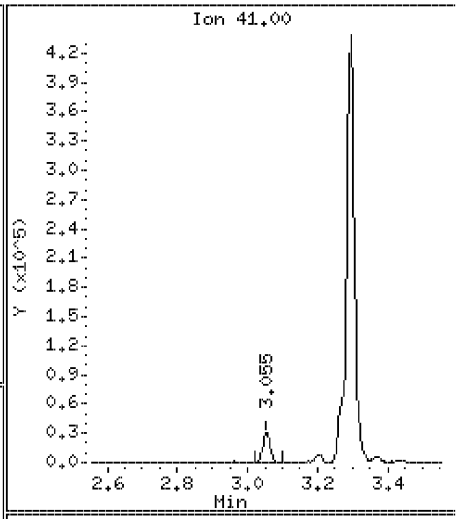
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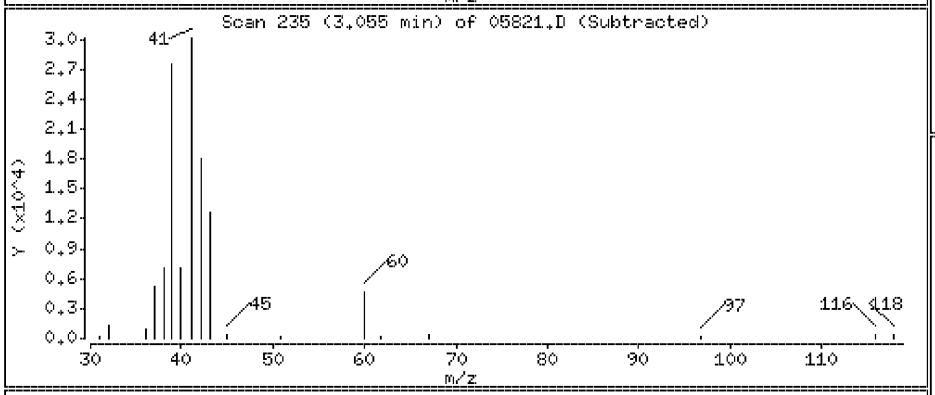
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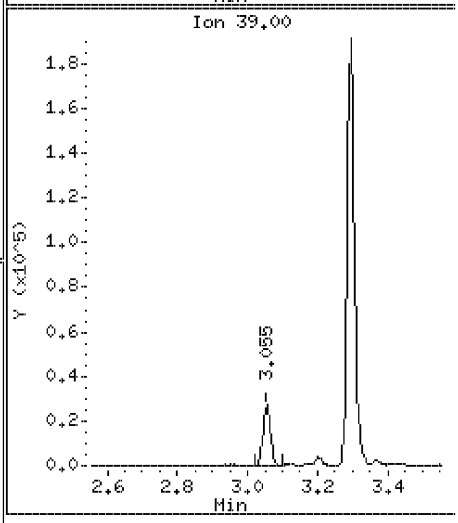
1 Propylene

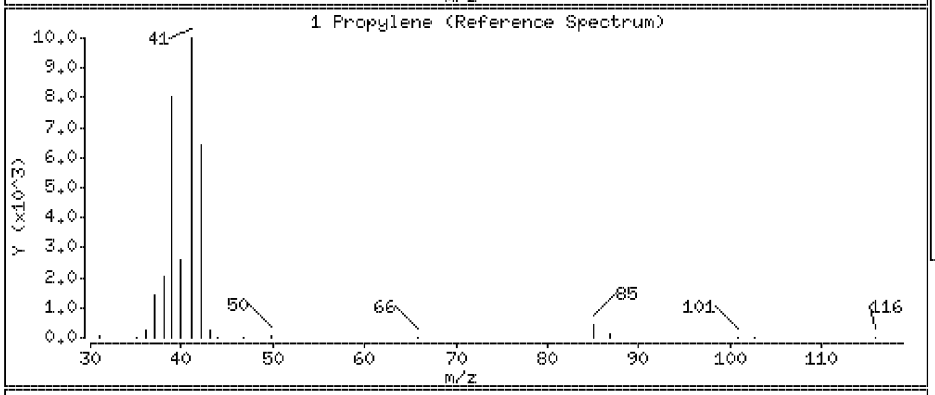
Concentration: 3.22 ppbv

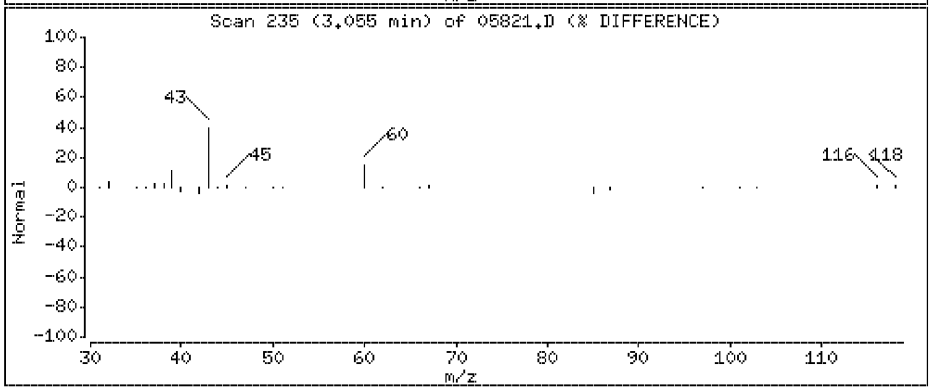












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

Sample Info:

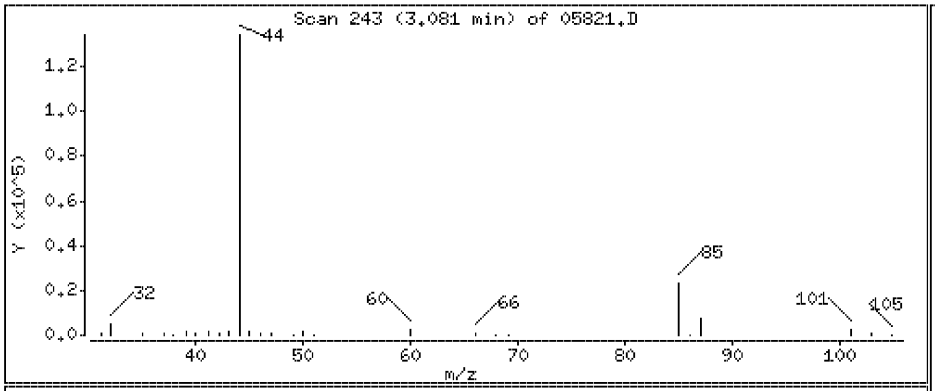
Operator: SK4

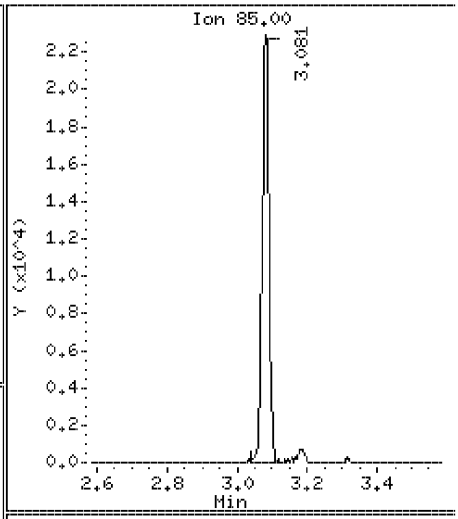
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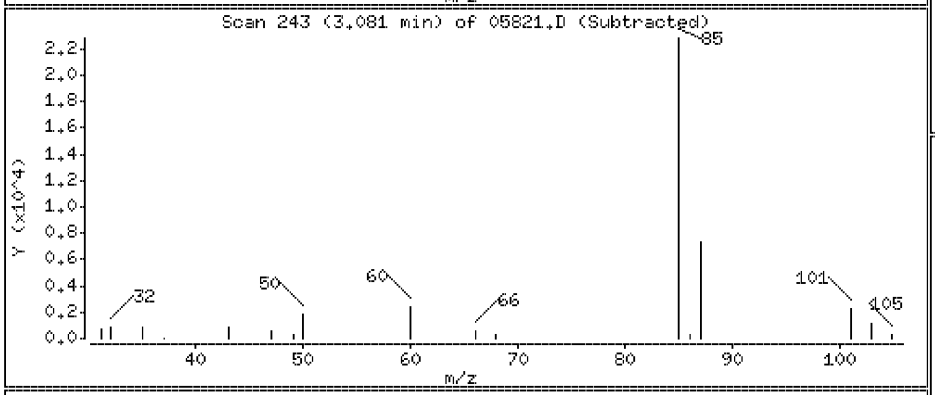
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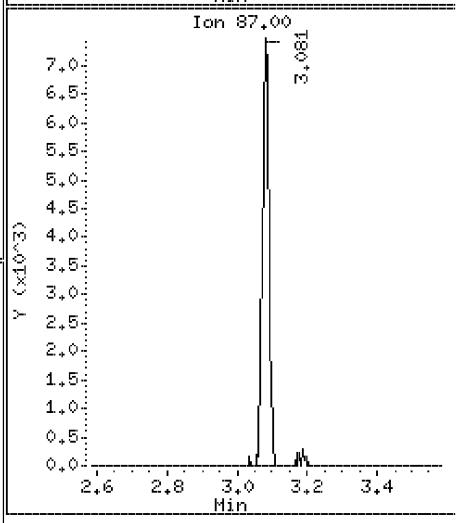
2 Dichlorodifluoromethane

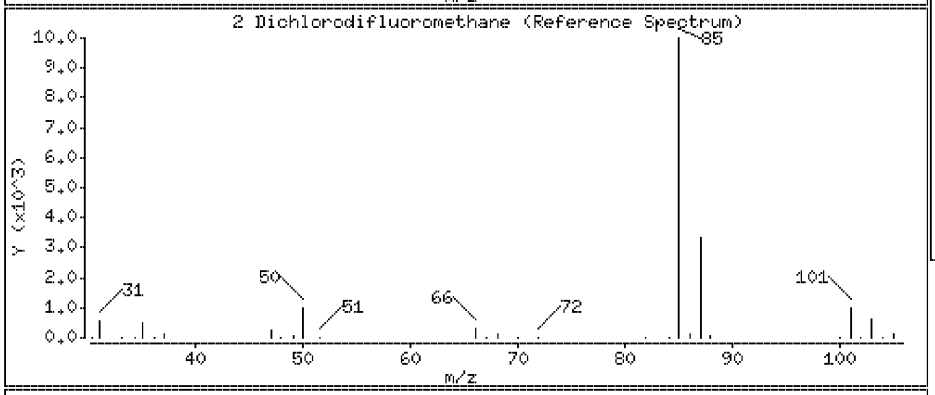
Concentration: 0.249 ppbv

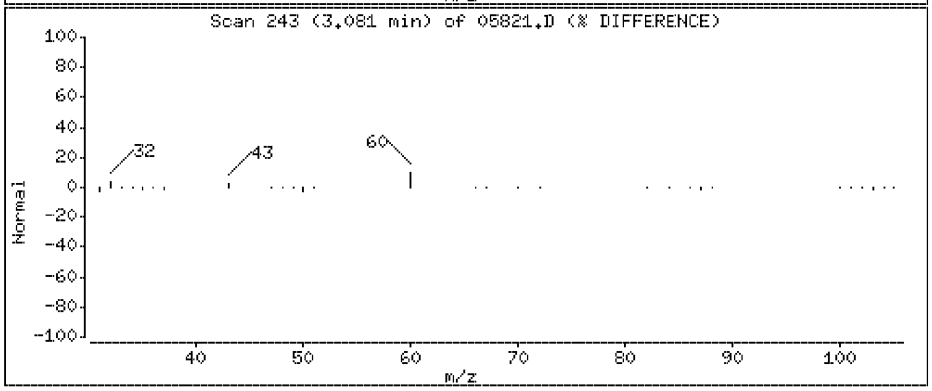












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Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

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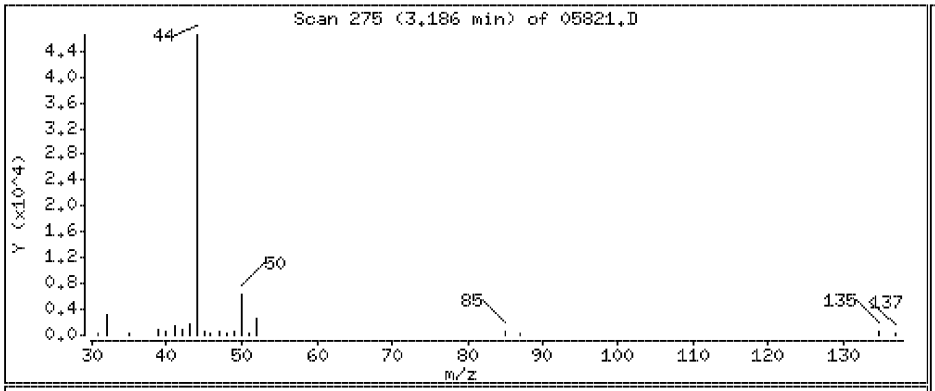
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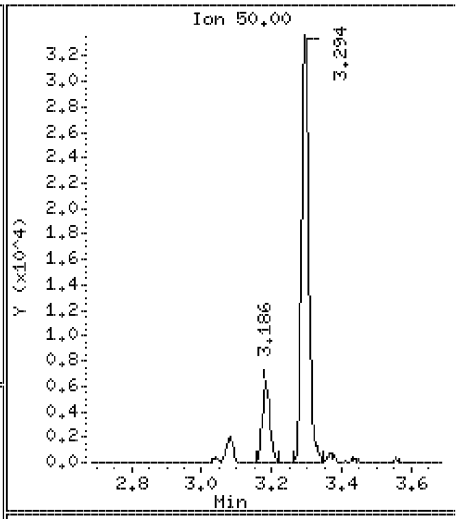
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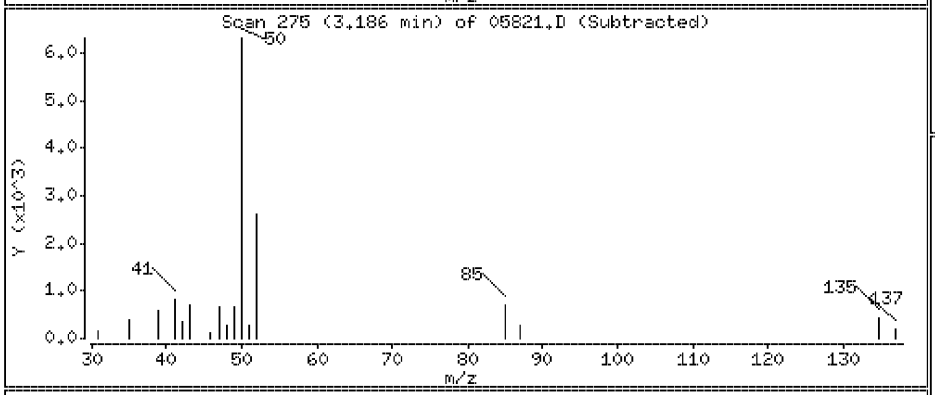
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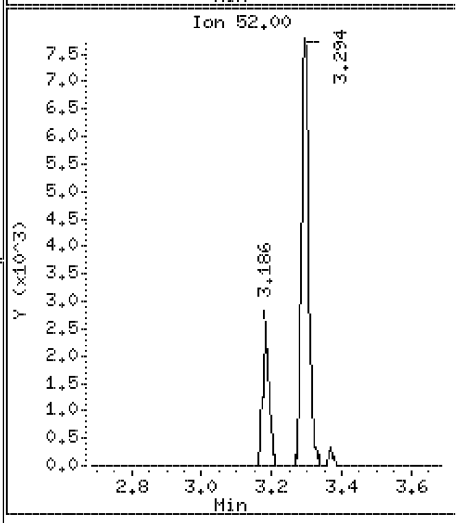
4 Chloromethane

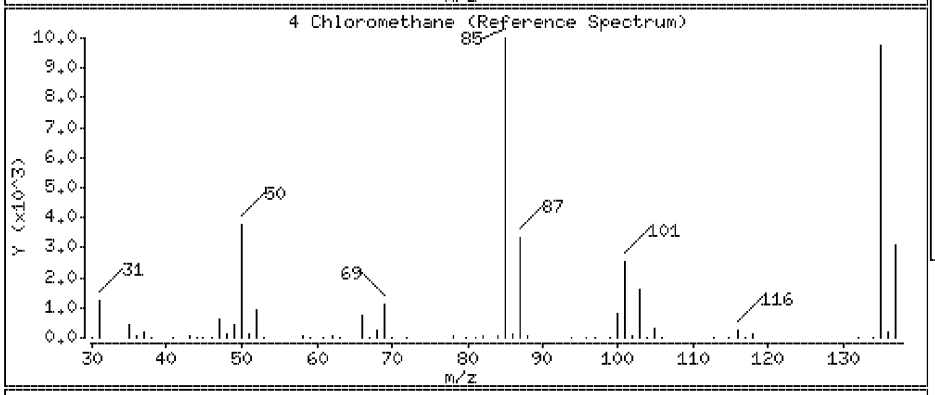
Concentration: 0.378 ppbv

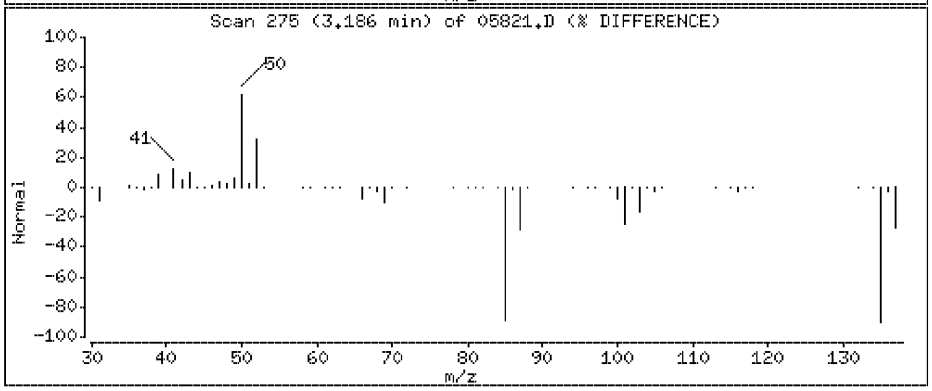












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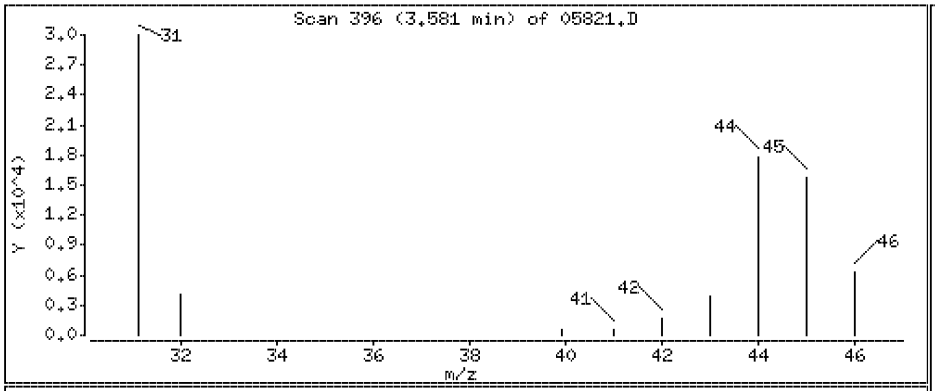
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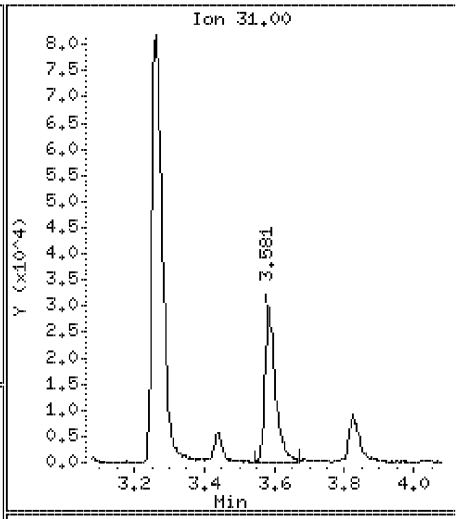
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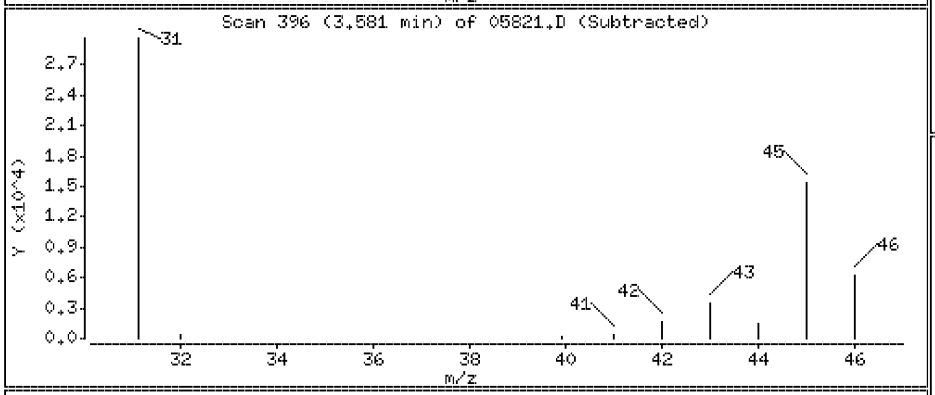
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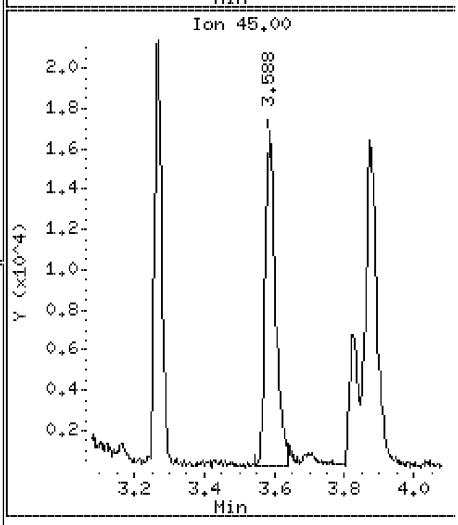
9 Ethanol

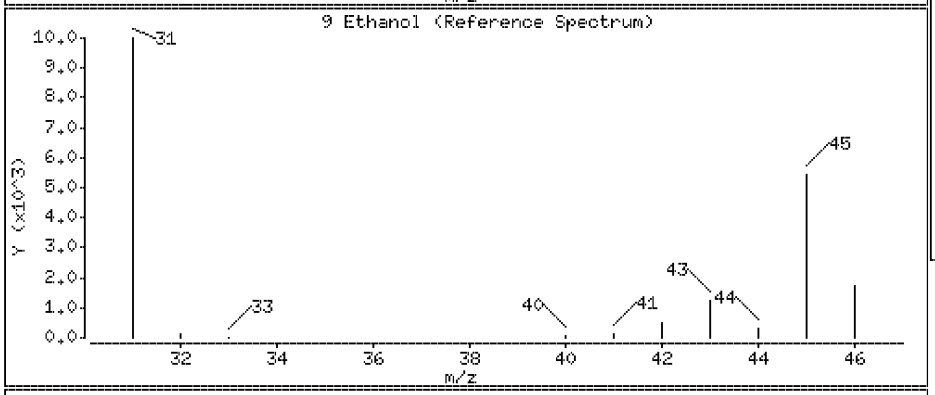
Concentration: 5.42 ppbv

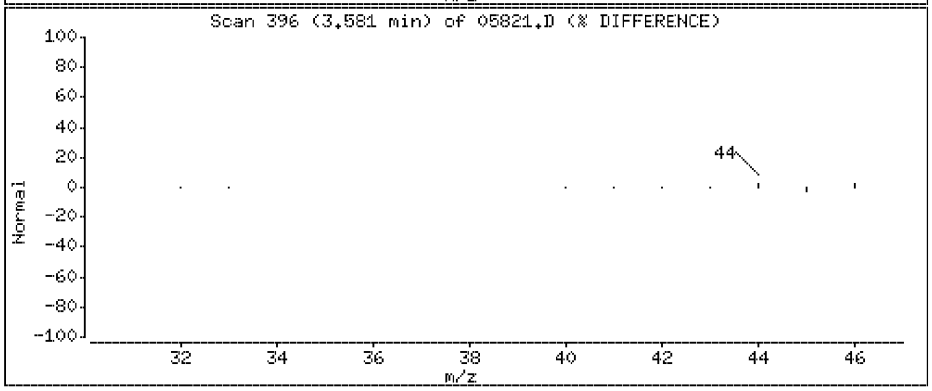












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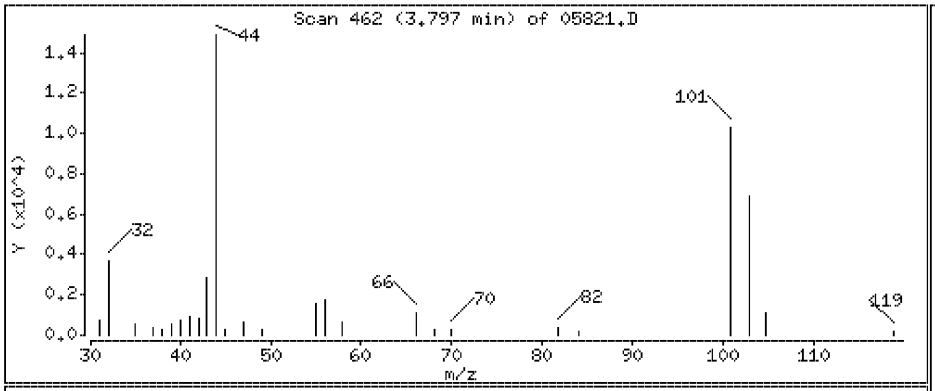
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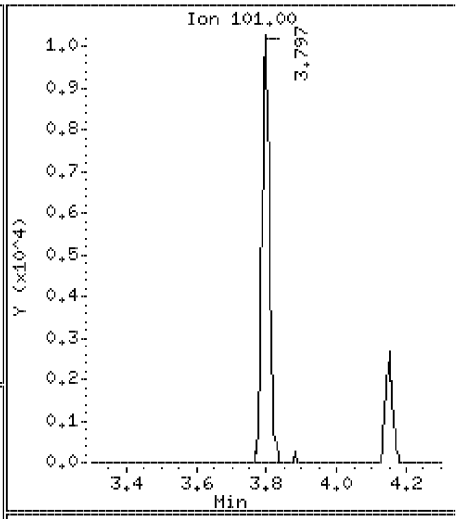
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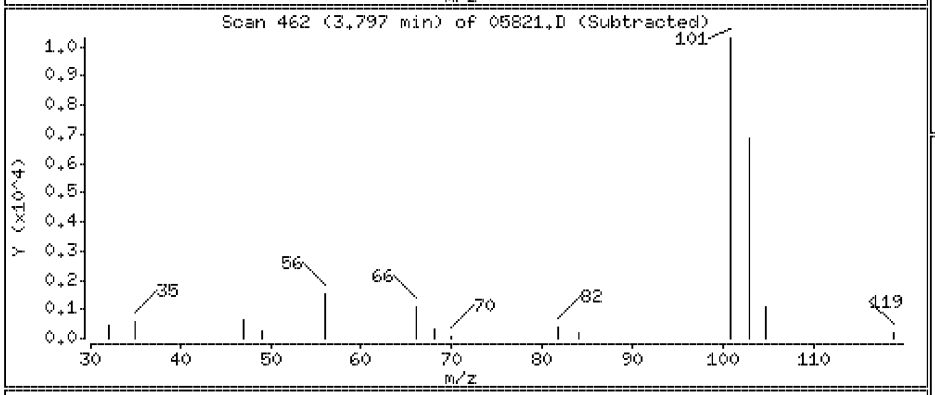
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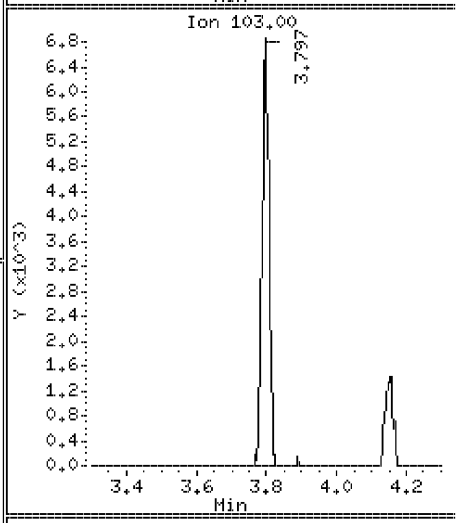
12 Trichlorofluoromethane

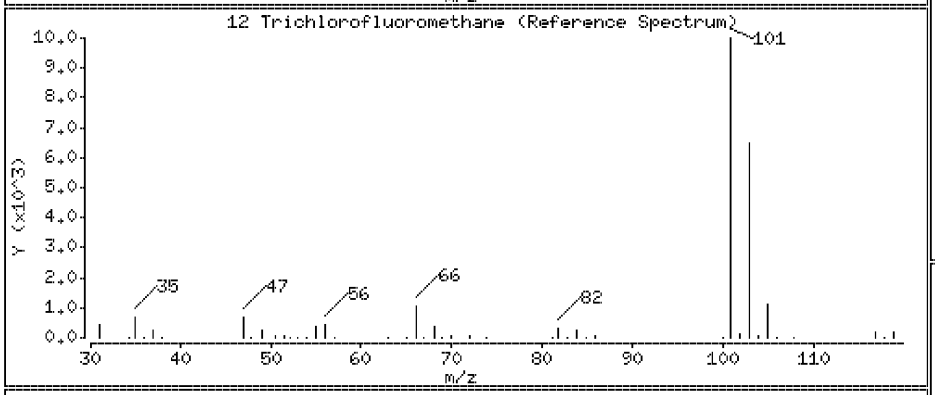
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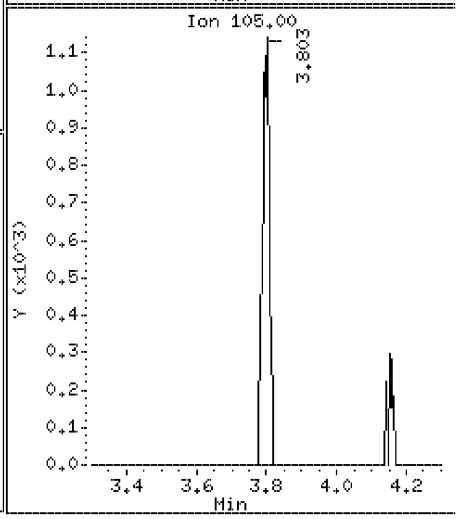


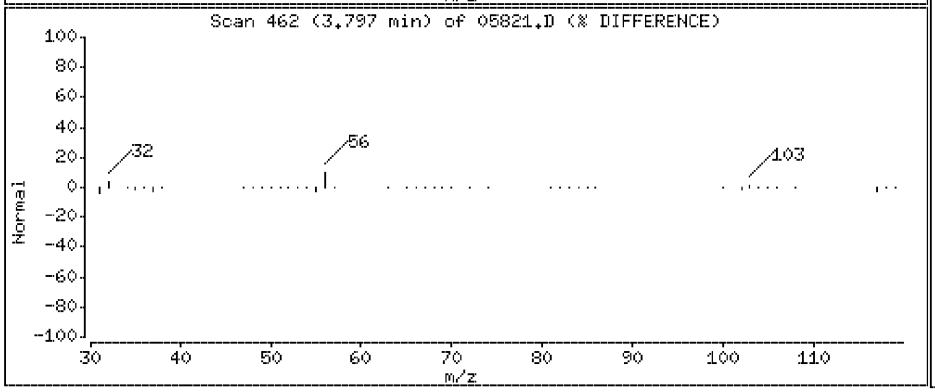












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Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

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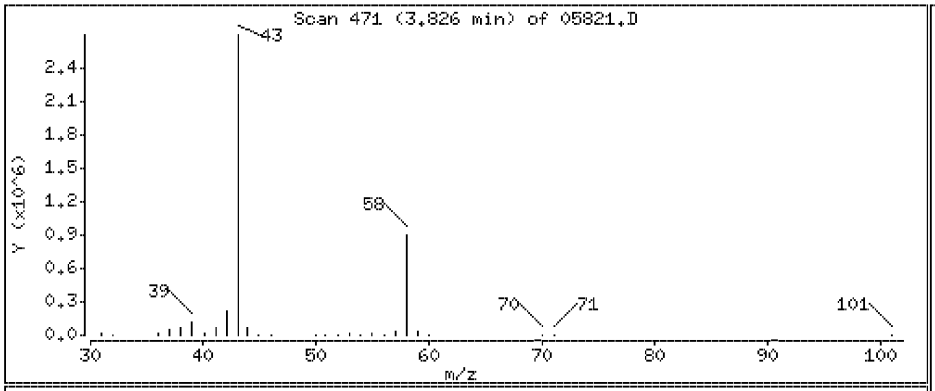
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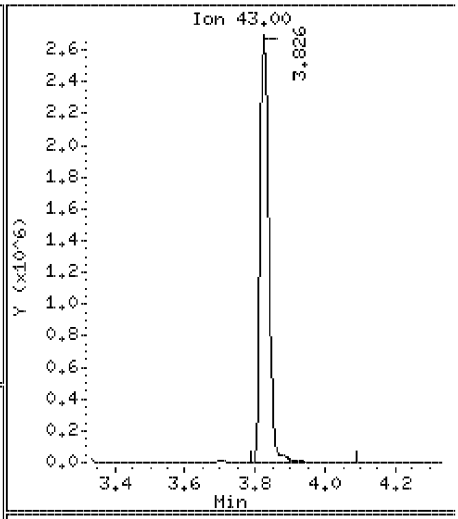
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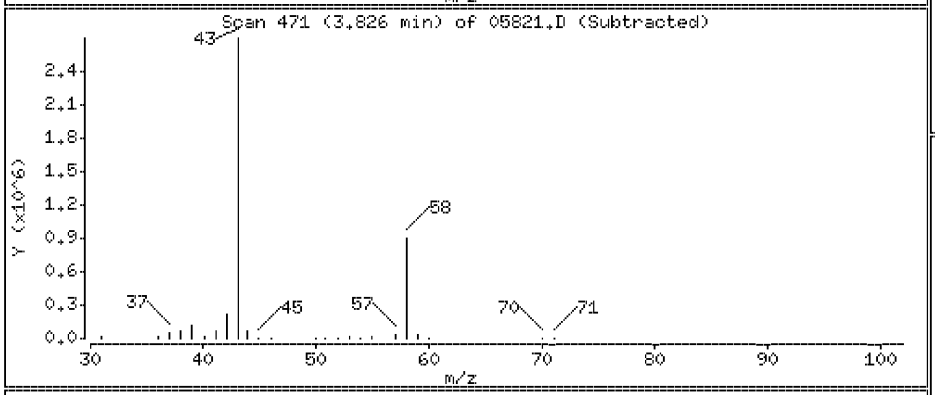
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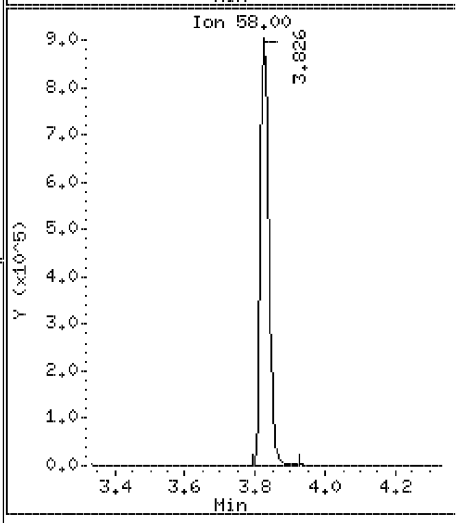
13 Acetone

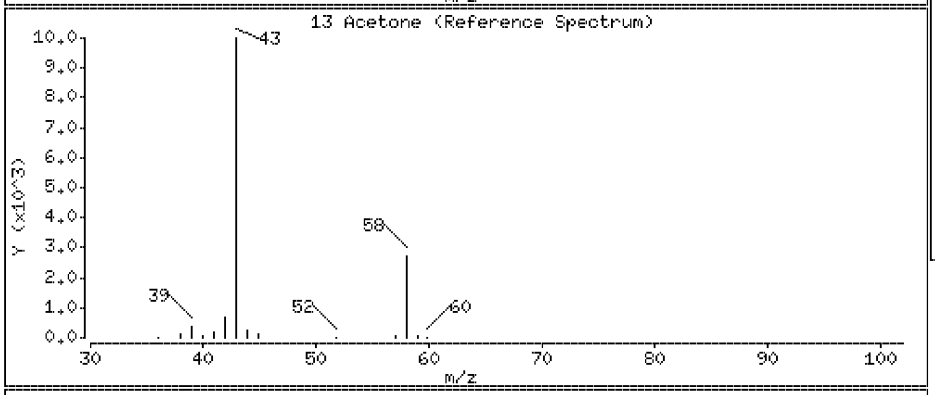
Concentration: 123 ppbv

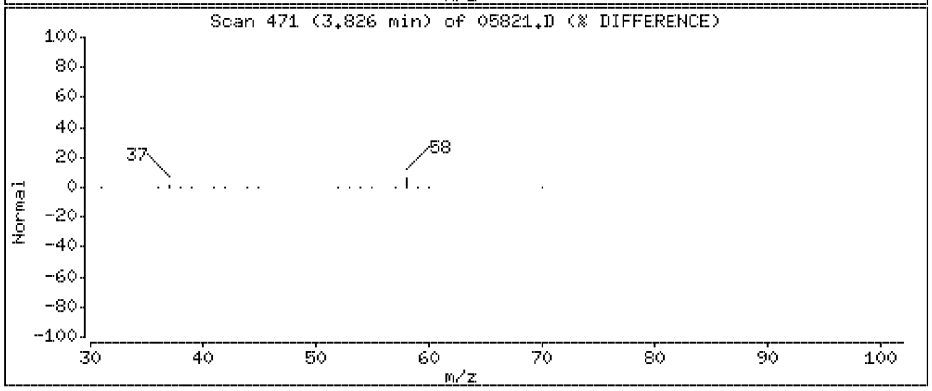












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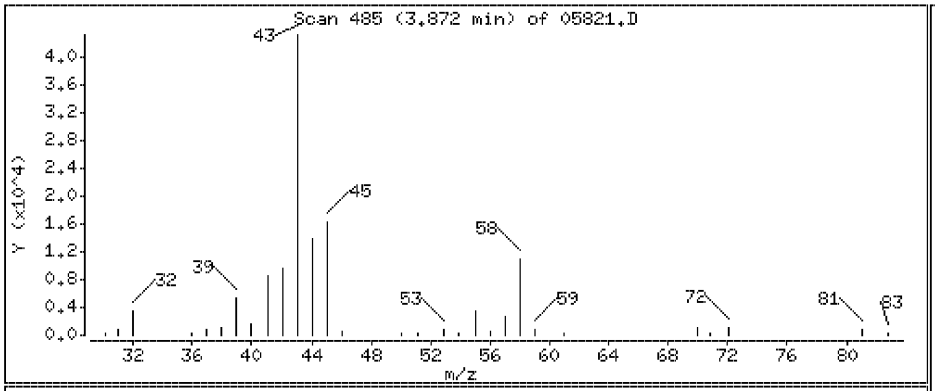
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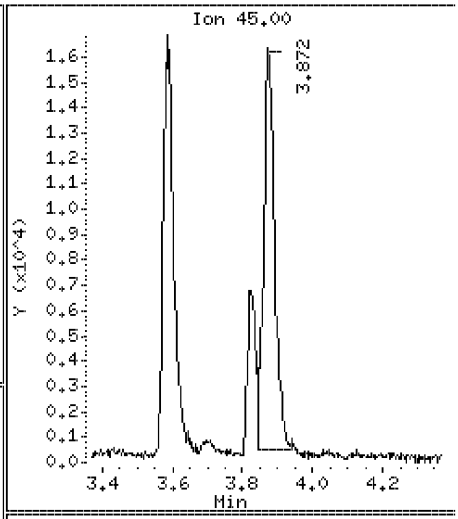
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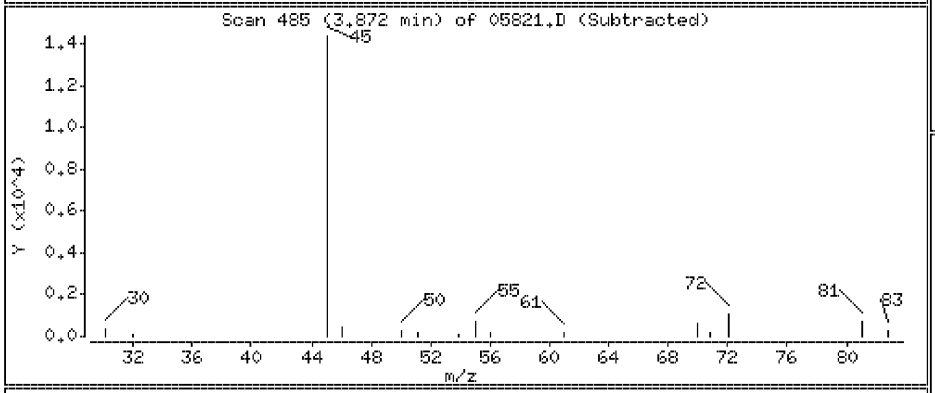
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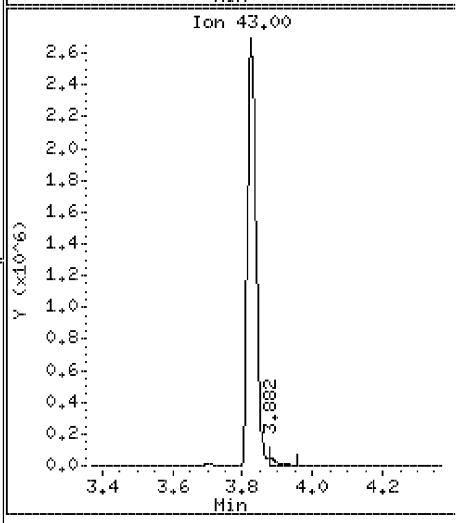
14 Isopropyl Alcohol

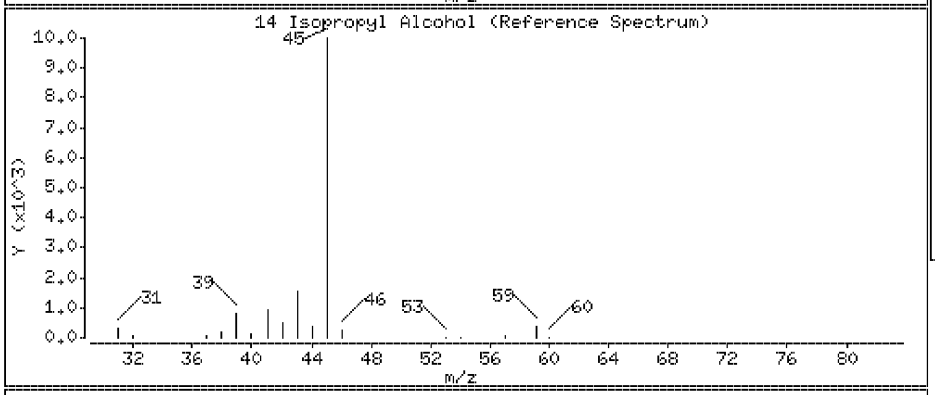
Concentration: 0.755 ppbv

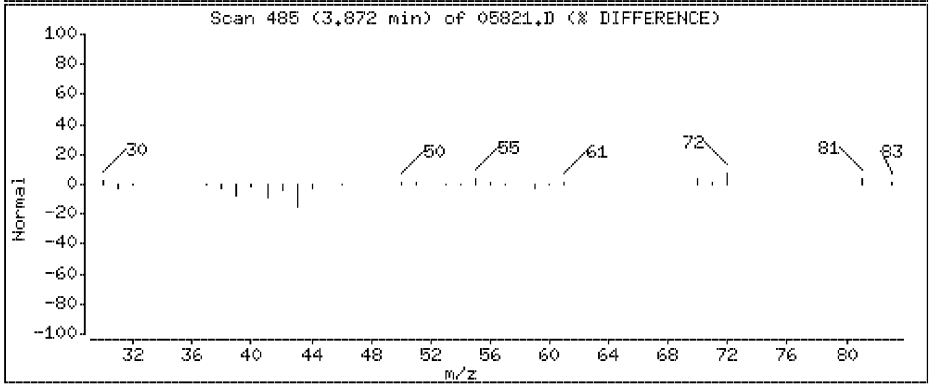












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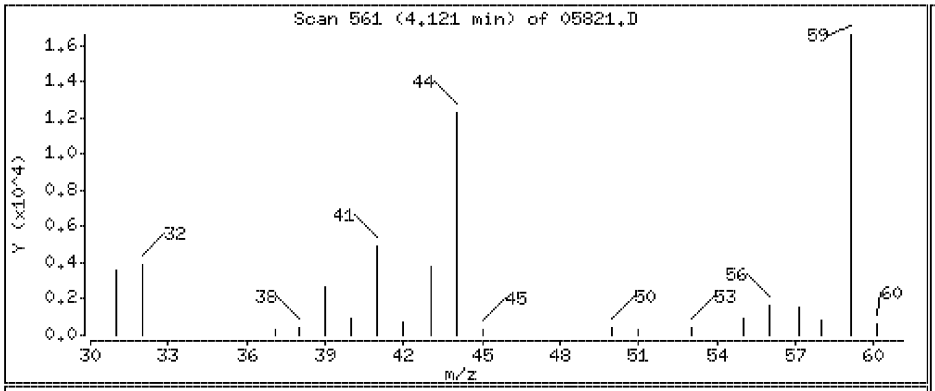
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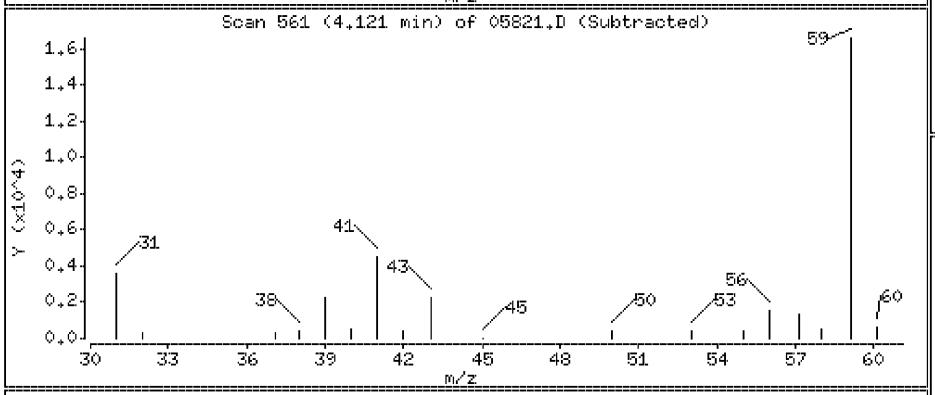
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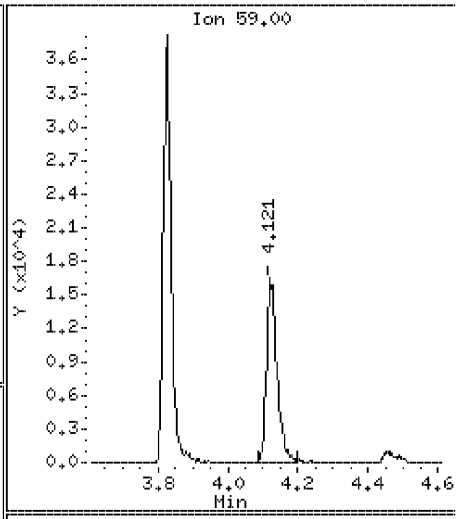
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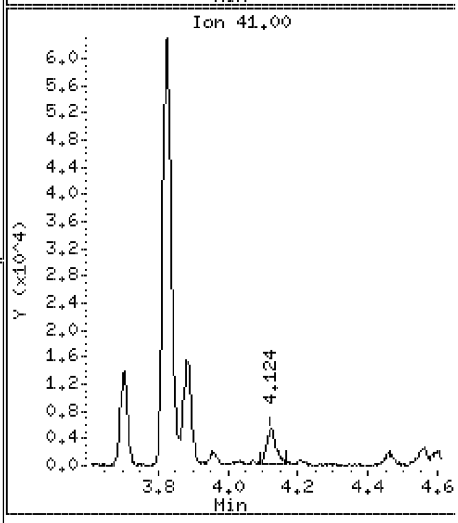
17 Tert Butyl Alcohol

Concentration: 0.645 ppbv









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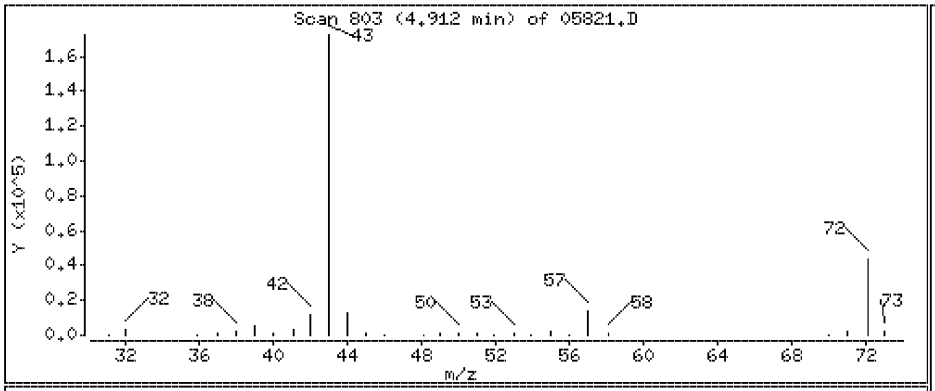
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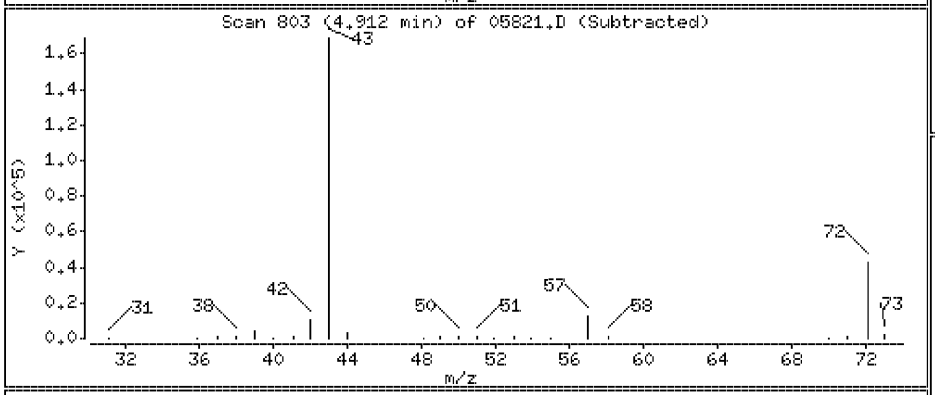
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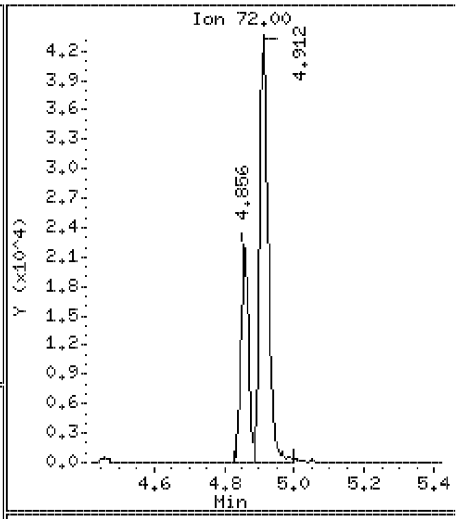
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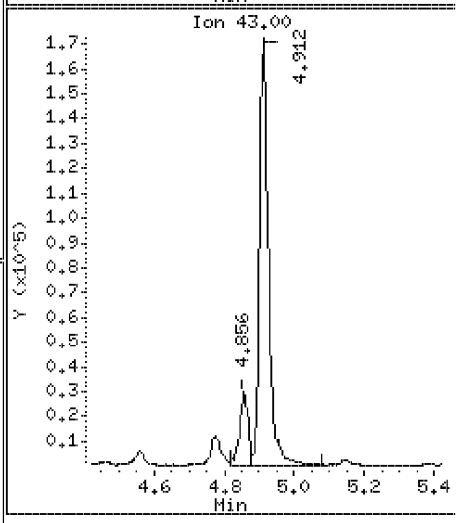
27 Methyl Ethyl Ketone

Concentration: 7.20 ppbv









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Date : 27-FEB-2012 22:06

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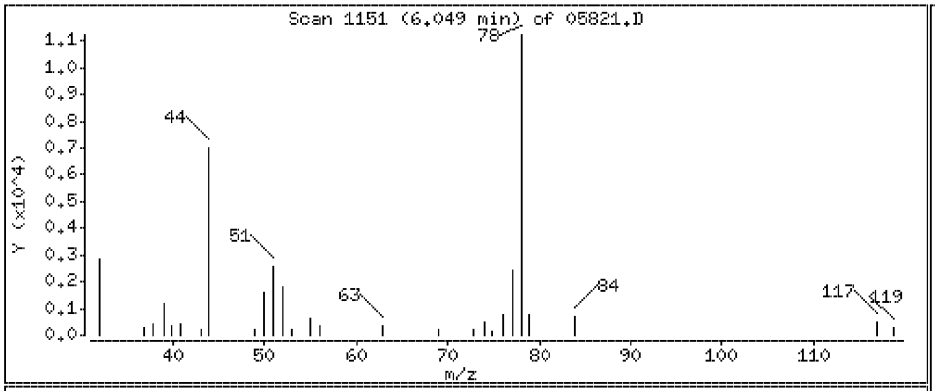
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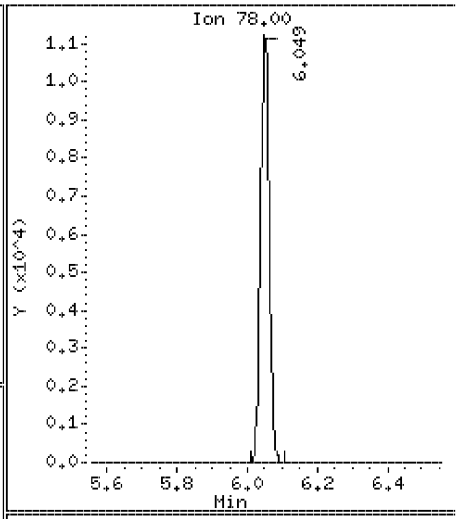
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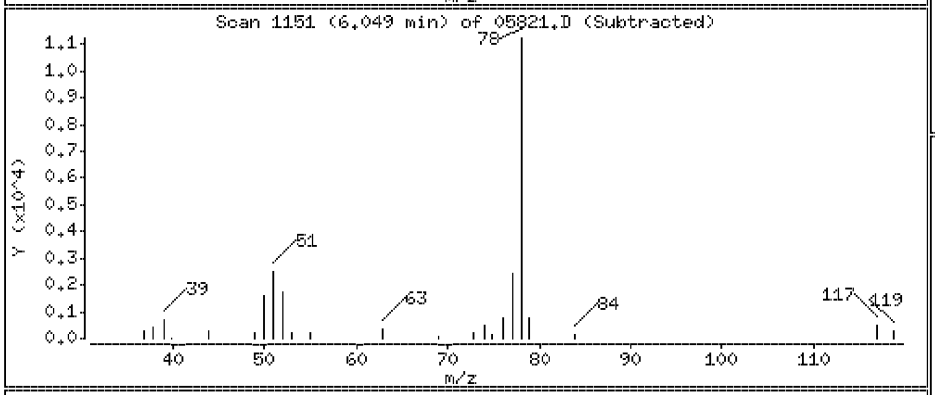
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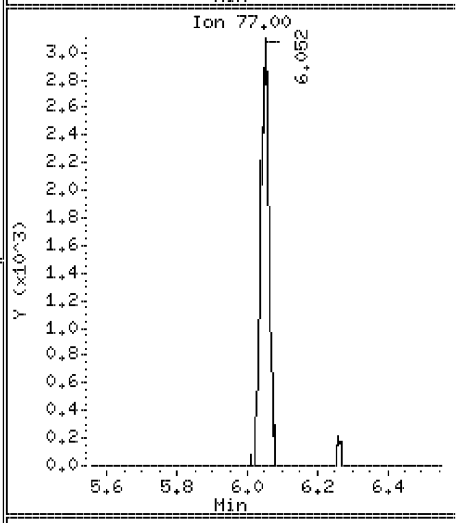
36 Benzene

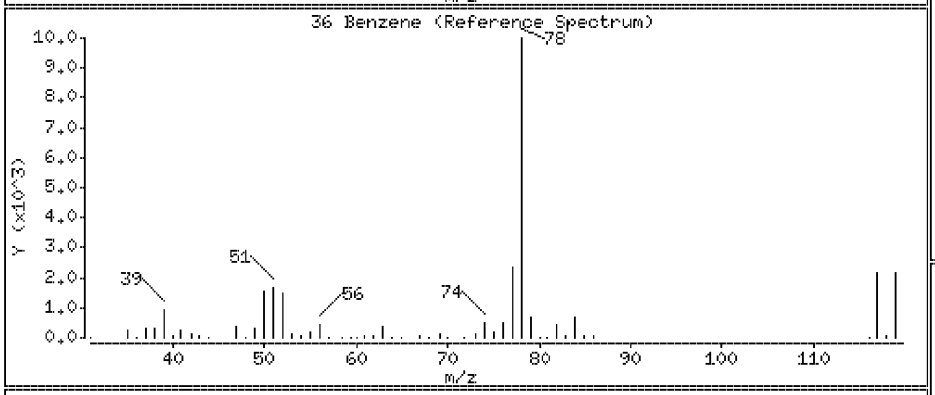
Concentration: 0.290 ppbv

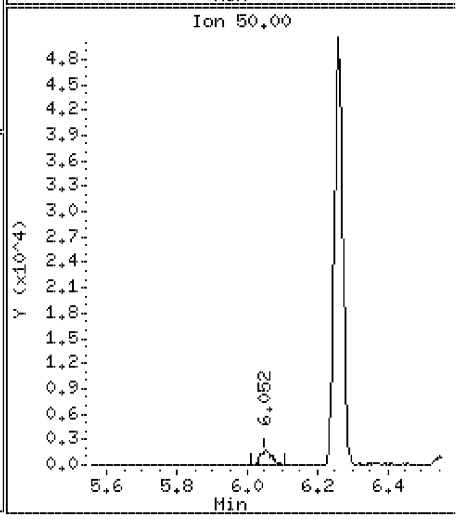


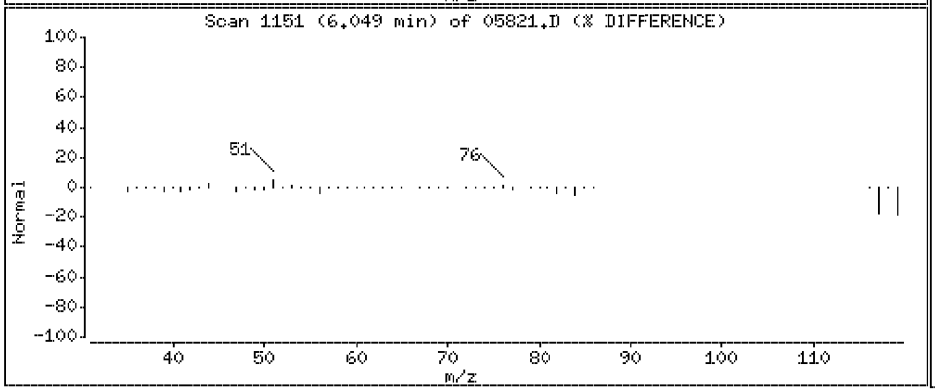












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Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

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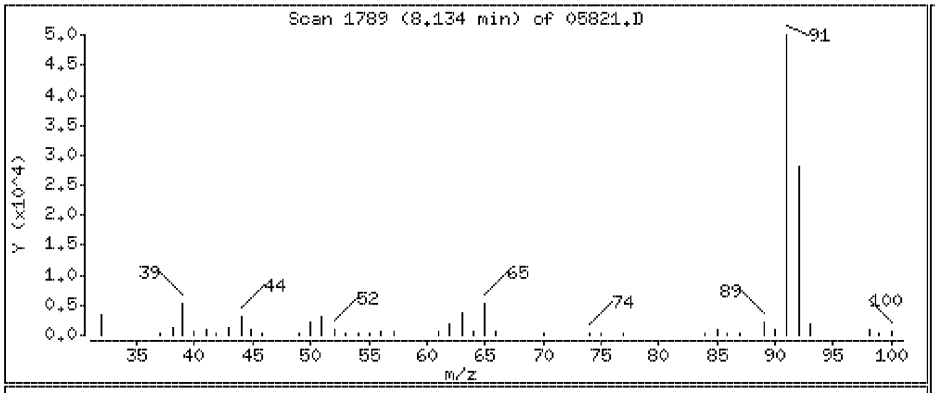
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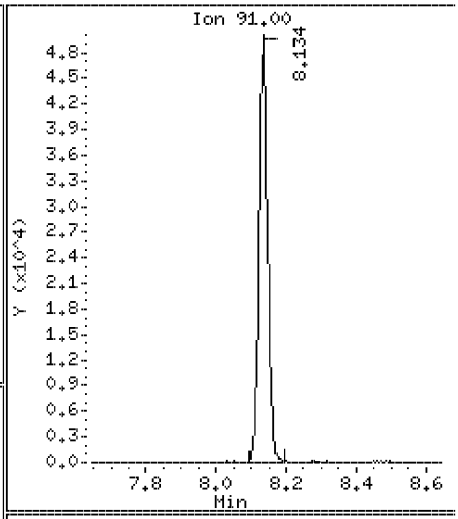
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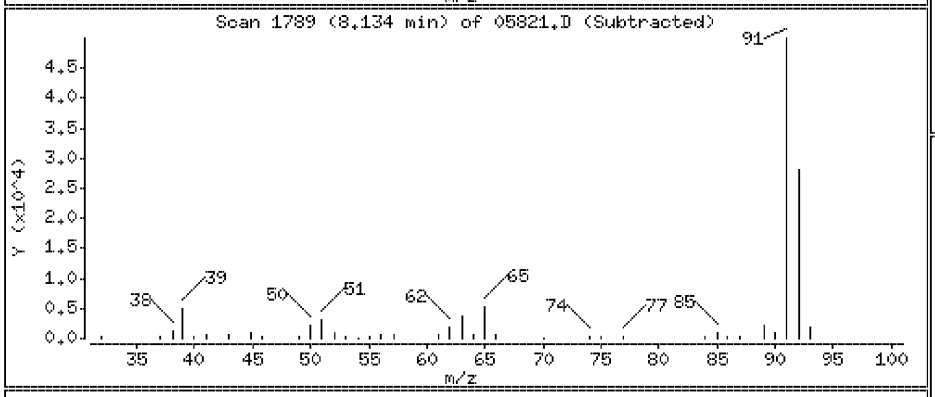
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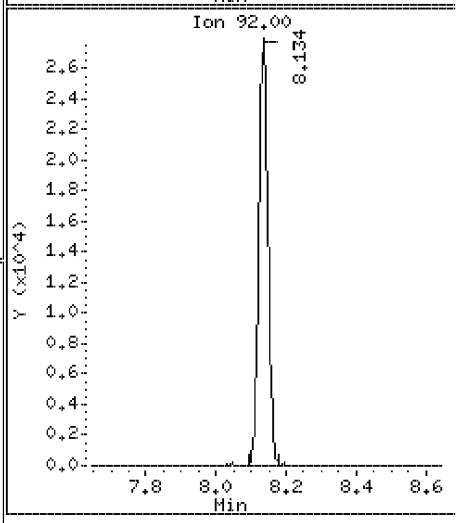
50 Toluene

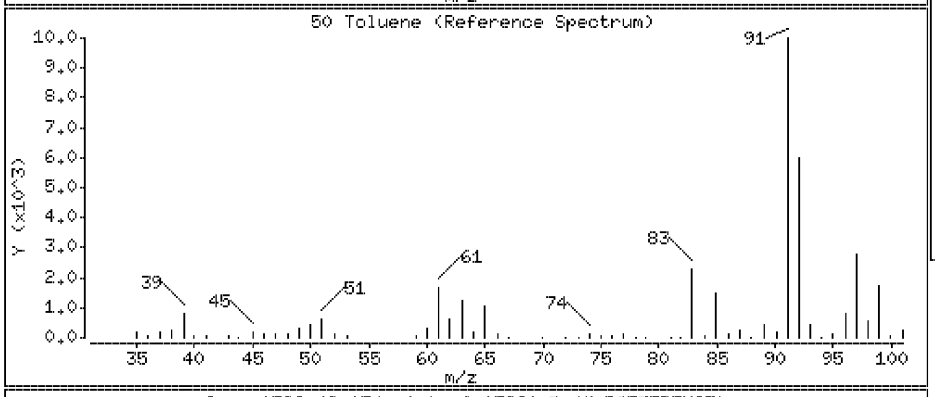
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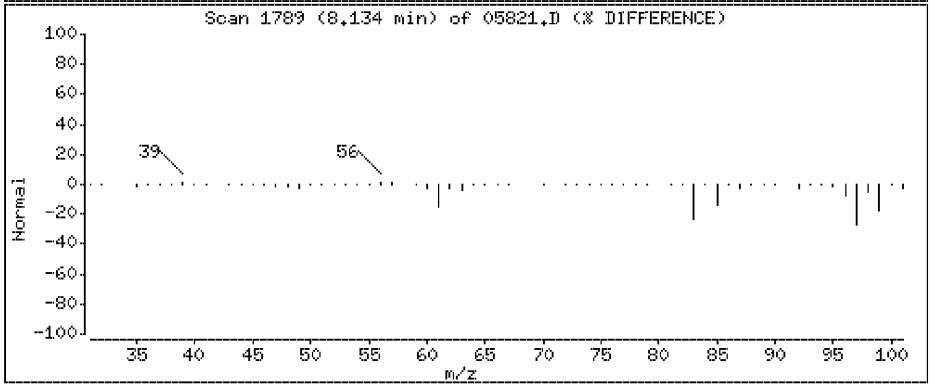












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Instrument: 10airD.i

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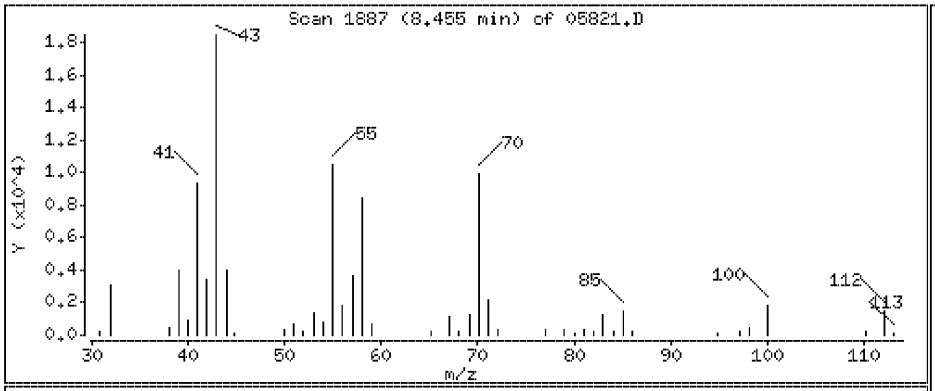
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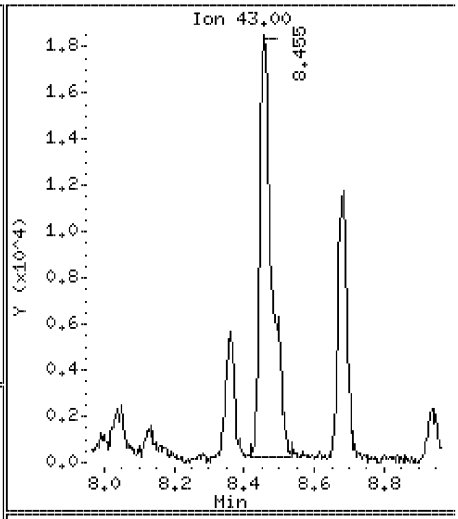
Column phase: J&W DB-5

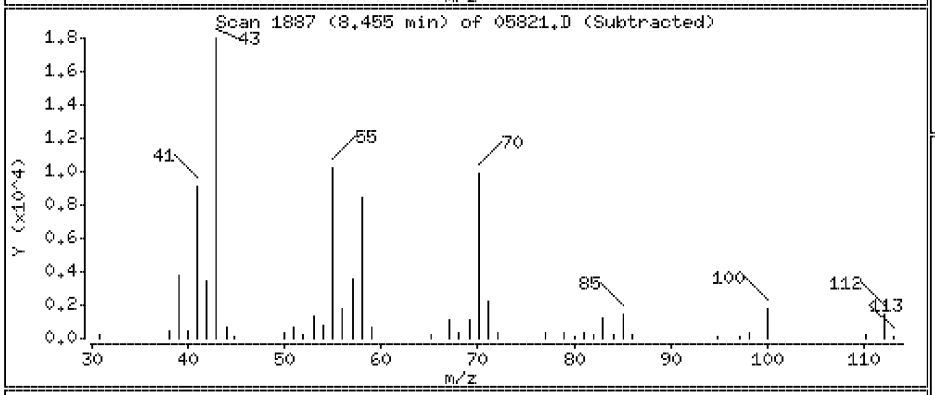
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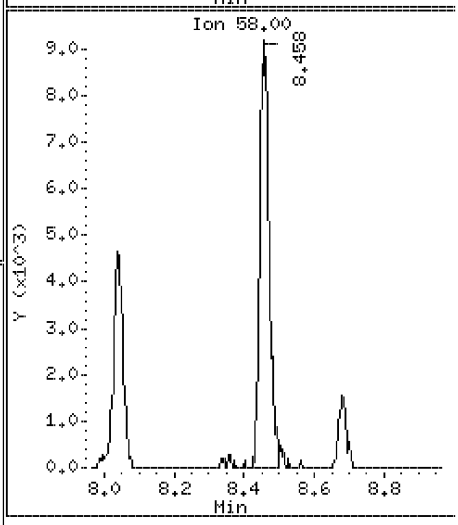
52 Methyl Butyl Ketone

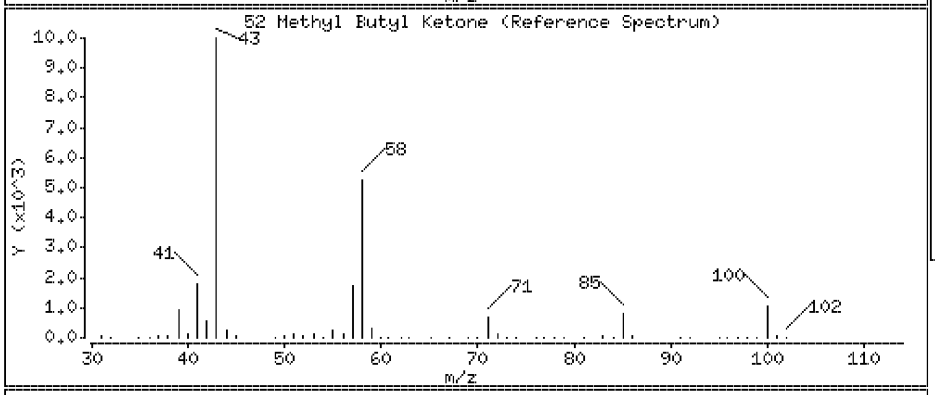
Concentration: 0.561 ppbv

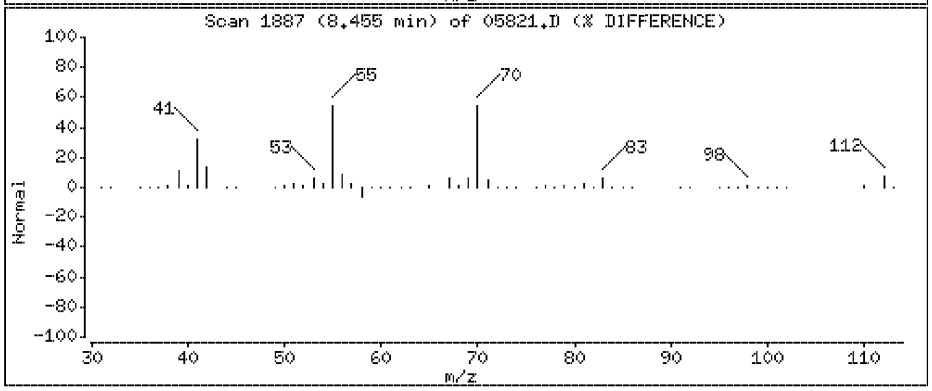












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

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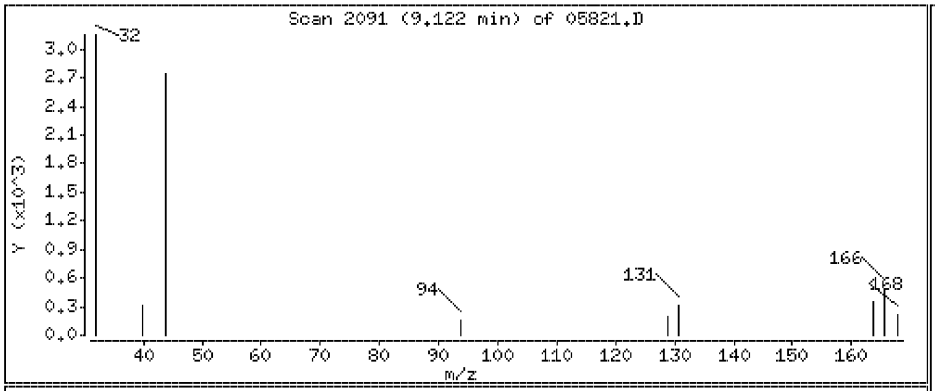
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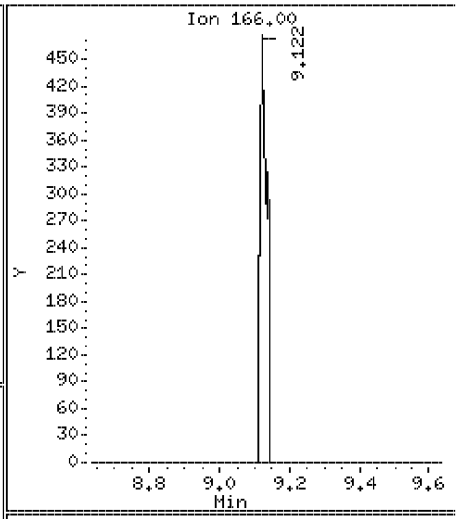
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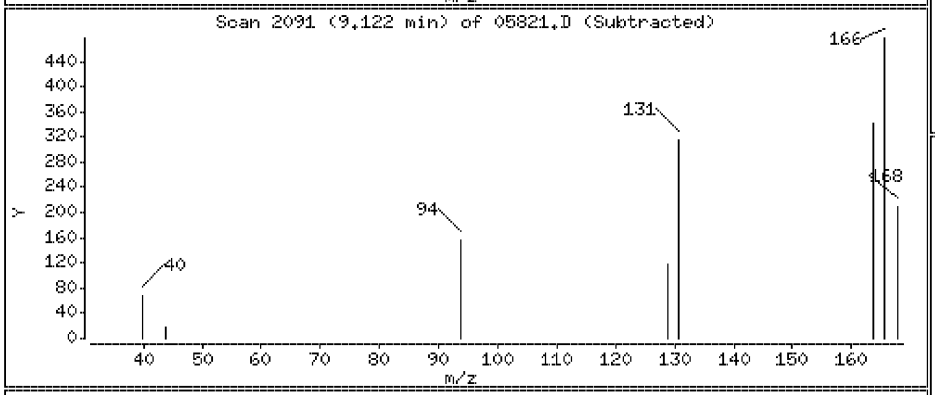
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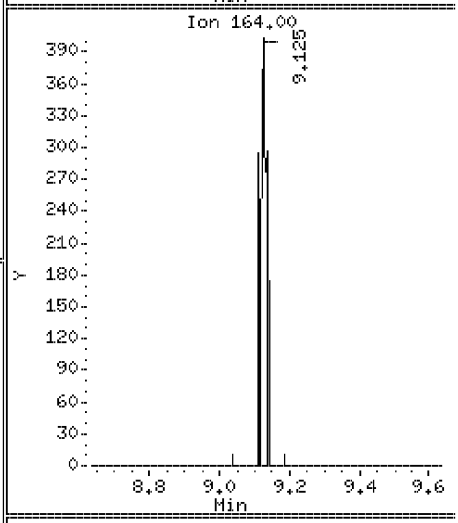
55 Tetrachloroethene

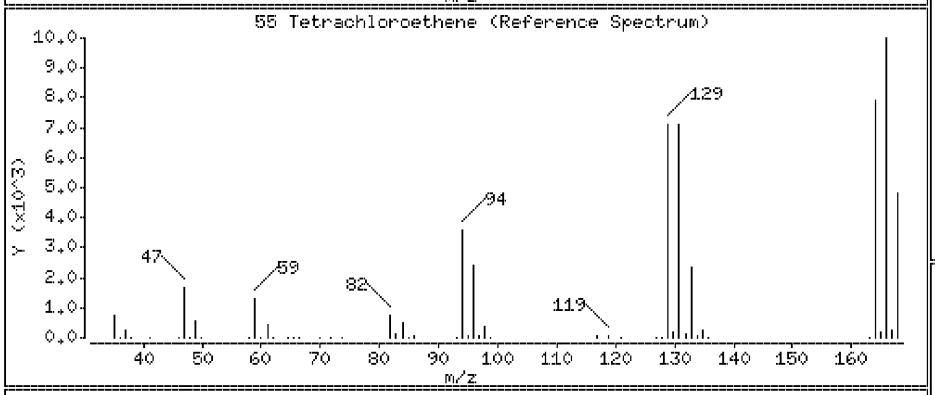
Concentration: 0.198 ppbv

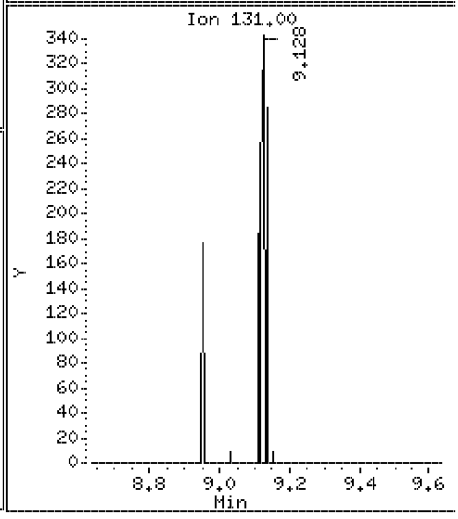


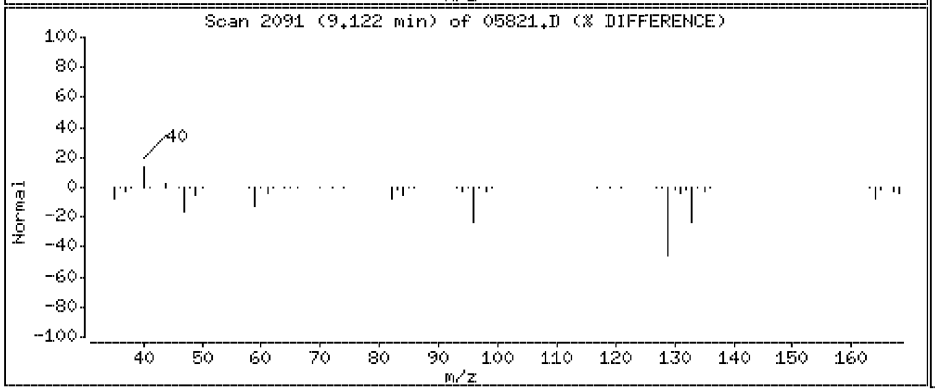












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

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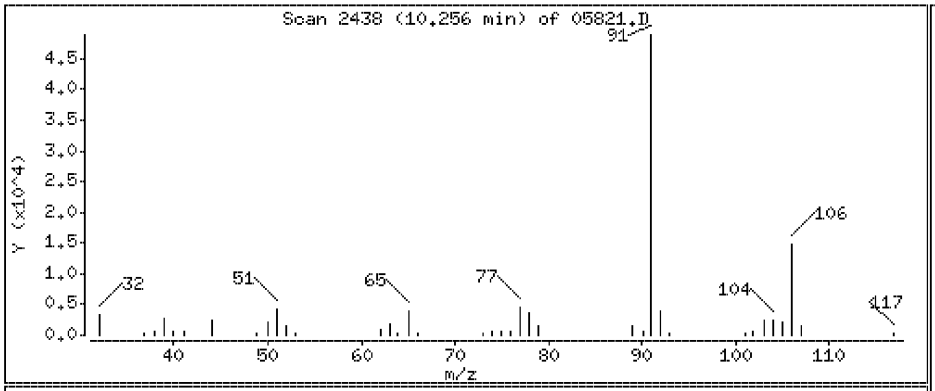
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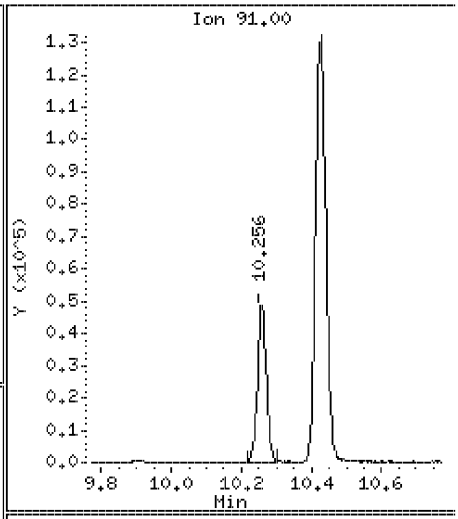
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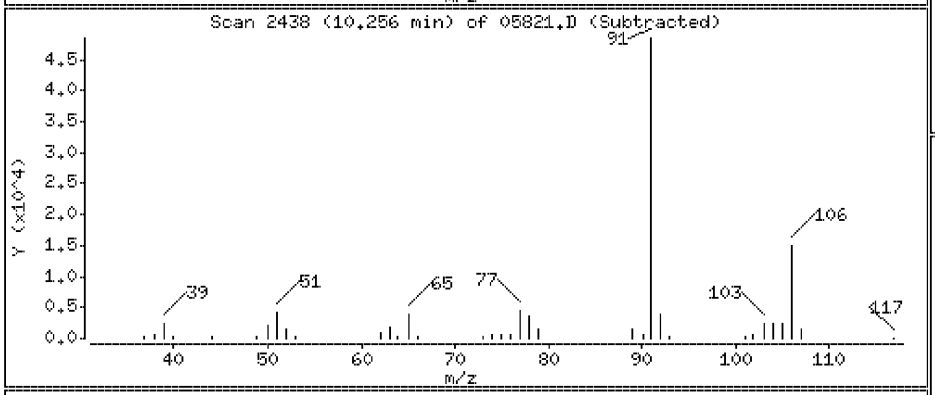
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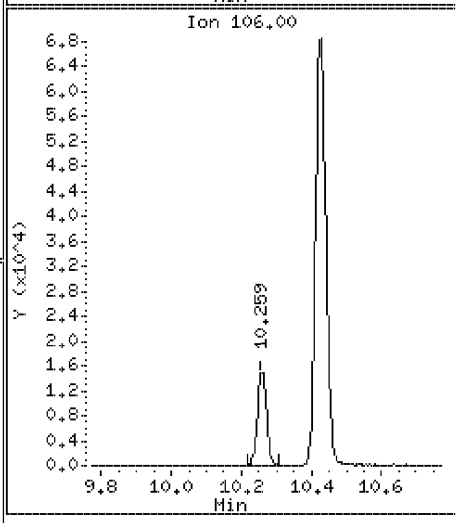
58 Ethyl Benzene

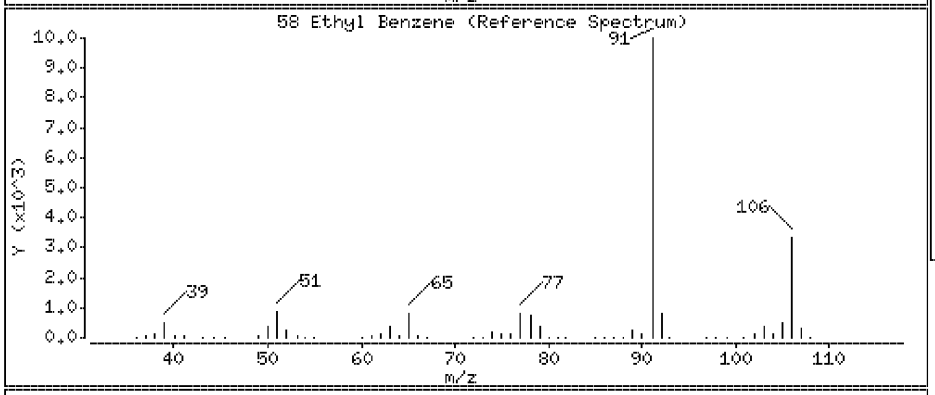
Concentration: 0.946 ppbv

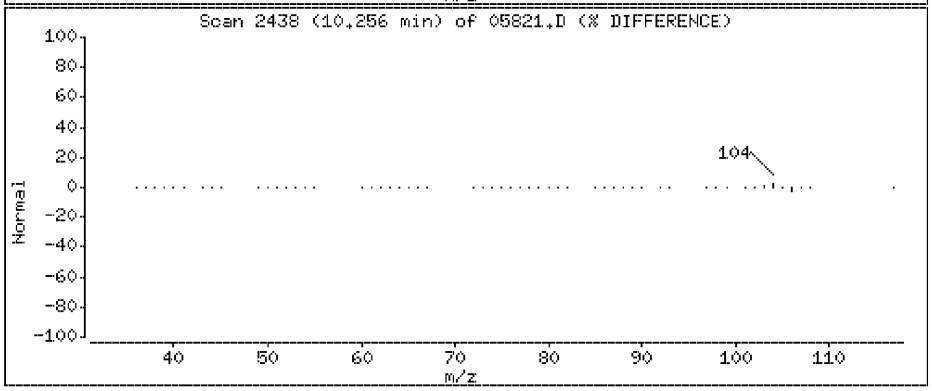












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

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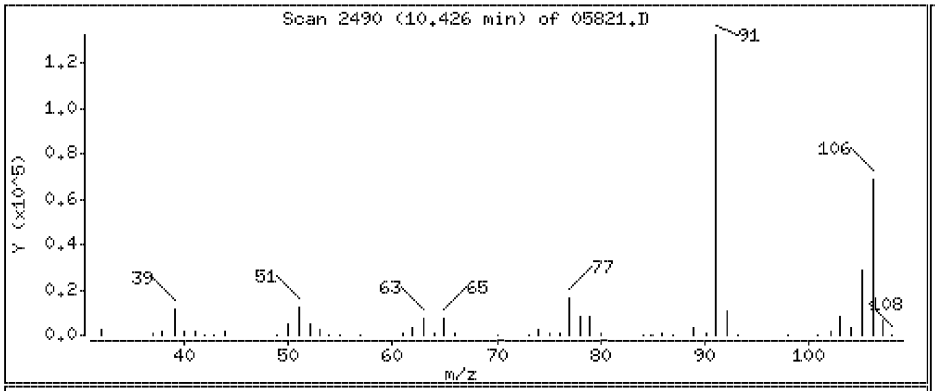
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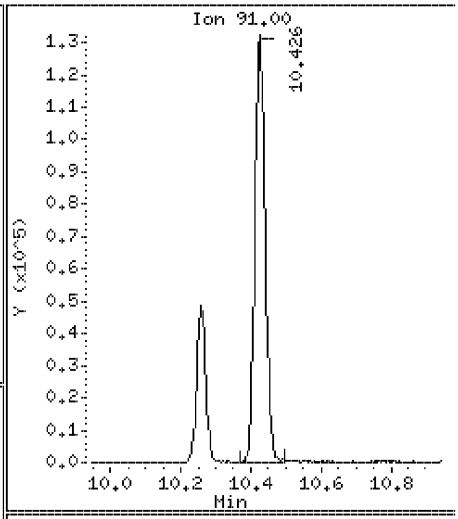
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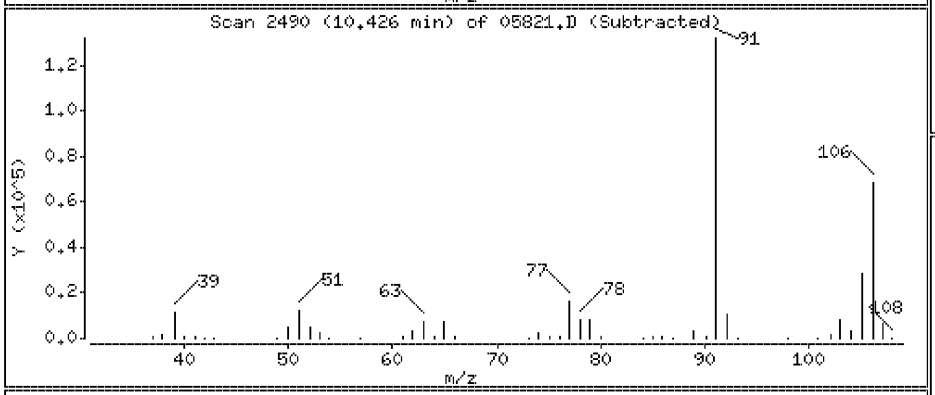
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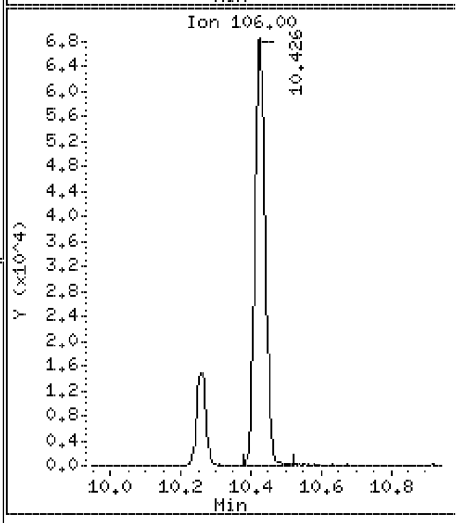
59 m&p-Xylene

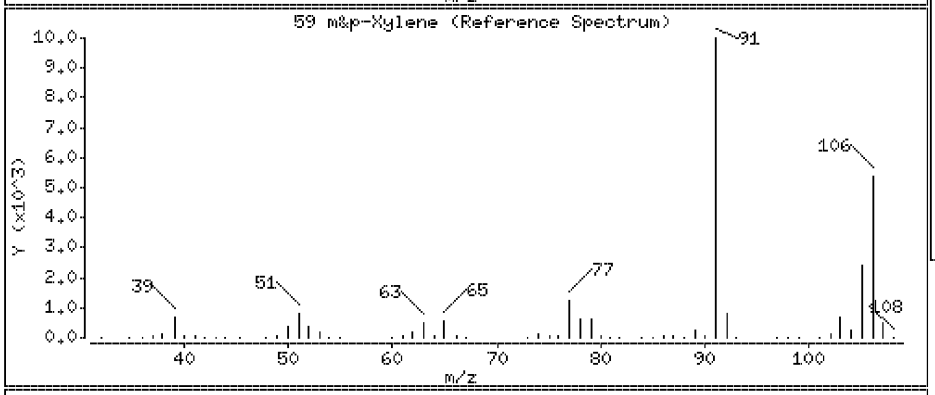
Concentration: 3.13 ppbv

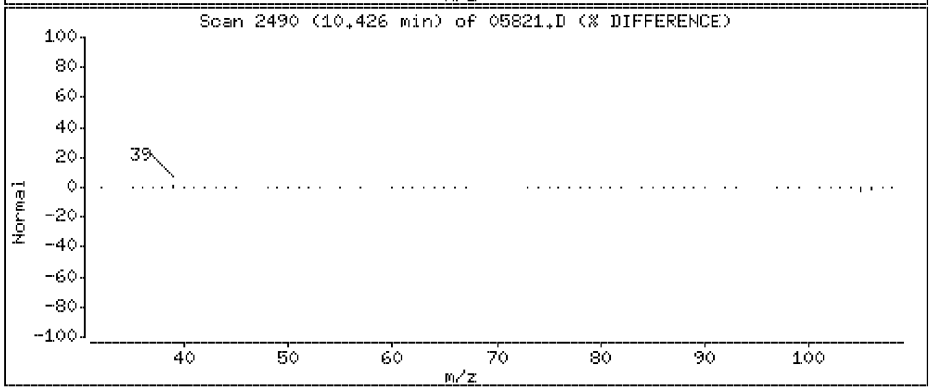












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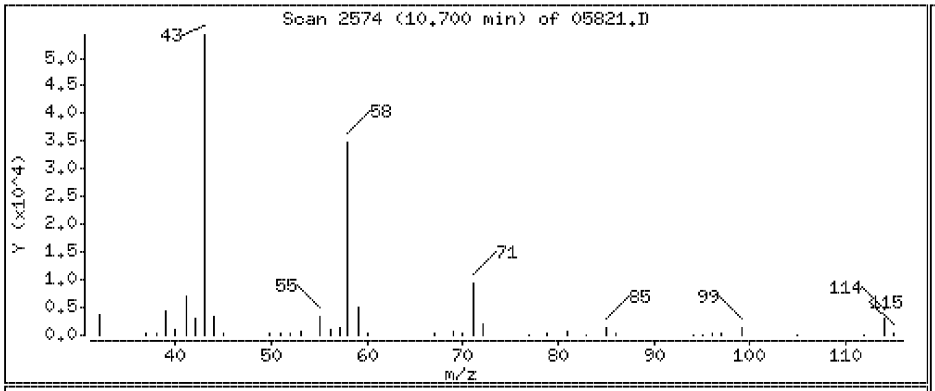
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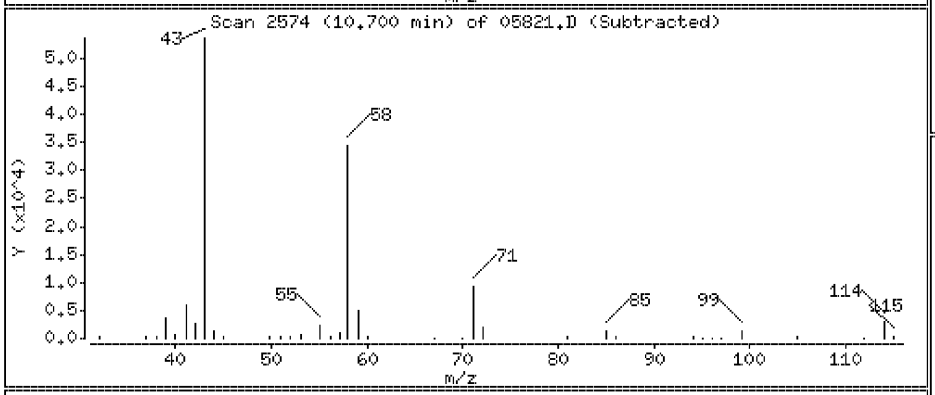
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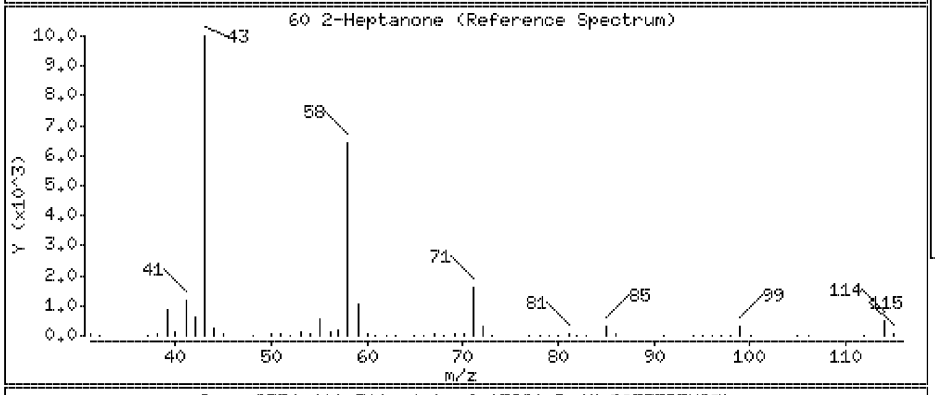
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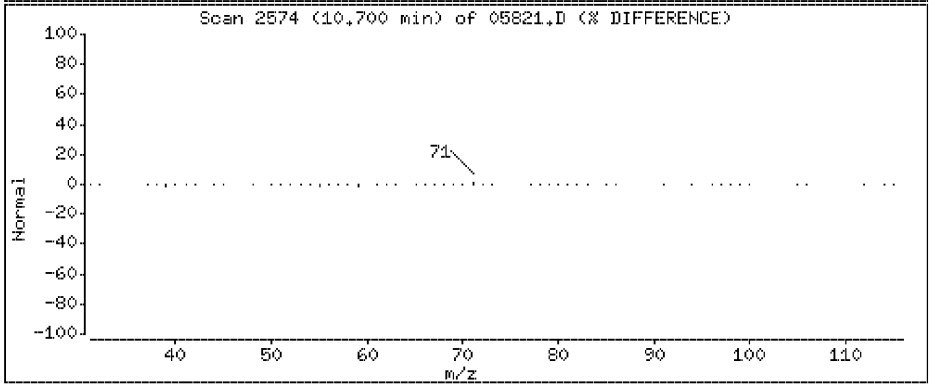
60 2-Heptanone

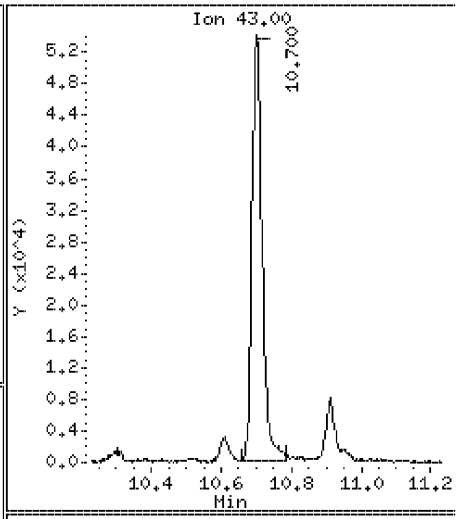
Concentration: 1.47 ppbv

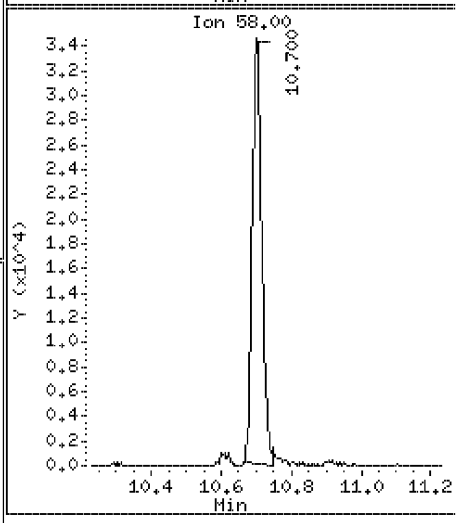












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Date : 27-FEB-2012 22:06

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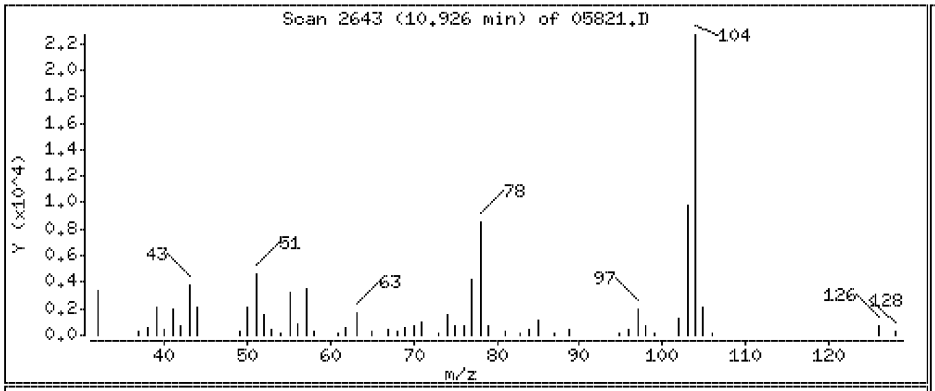
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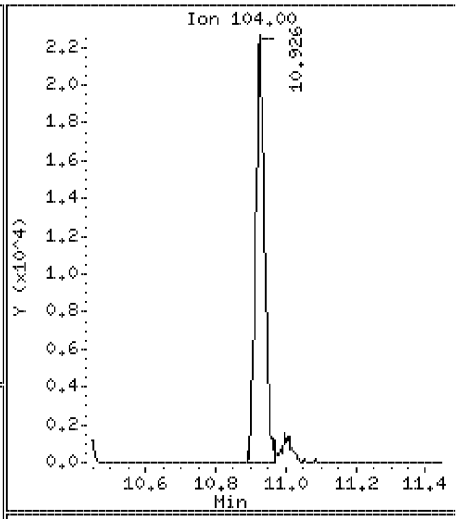
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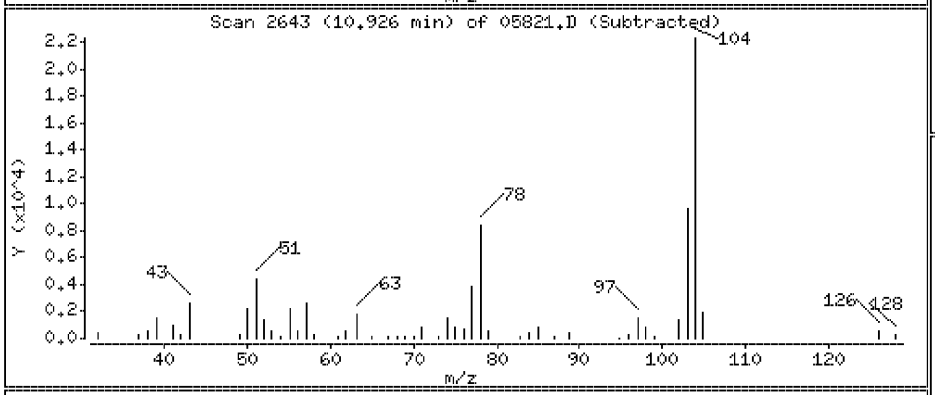
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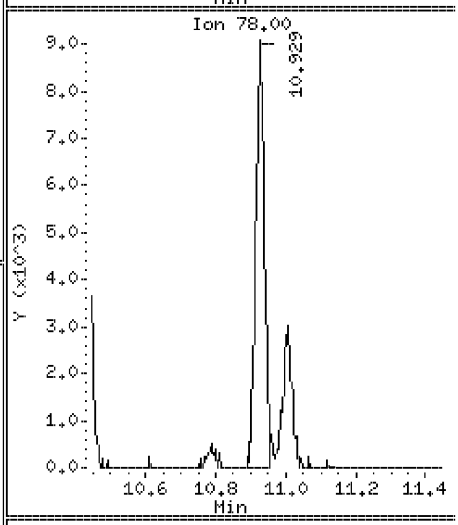
62 Styrene

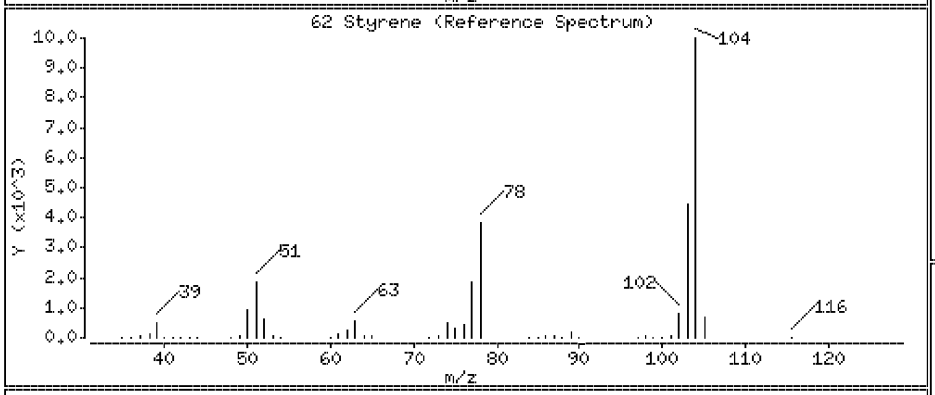
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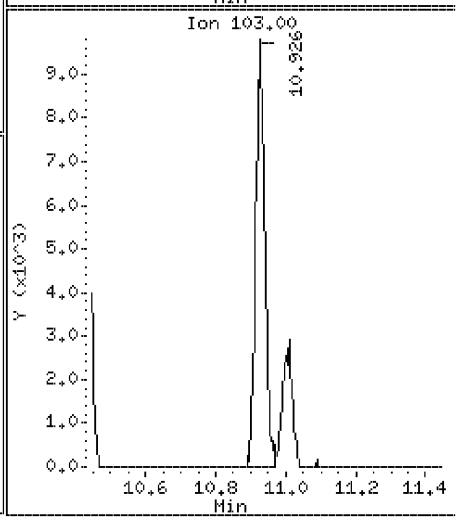


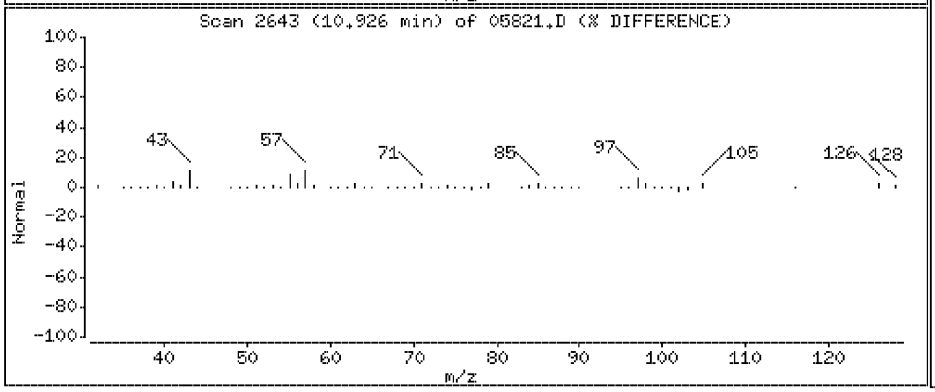












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Date : 27-FEB-2012 22:06

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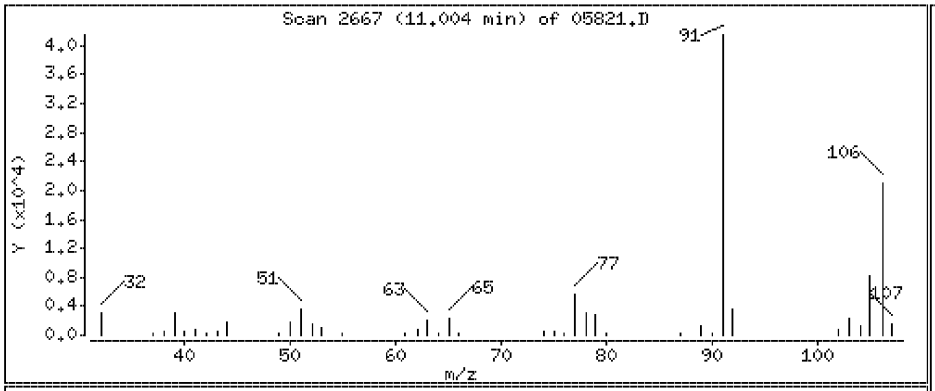
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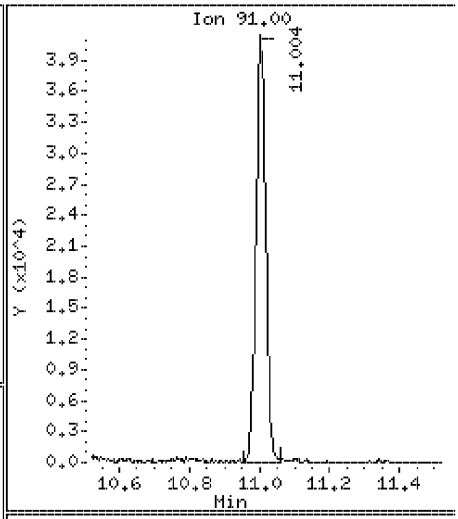
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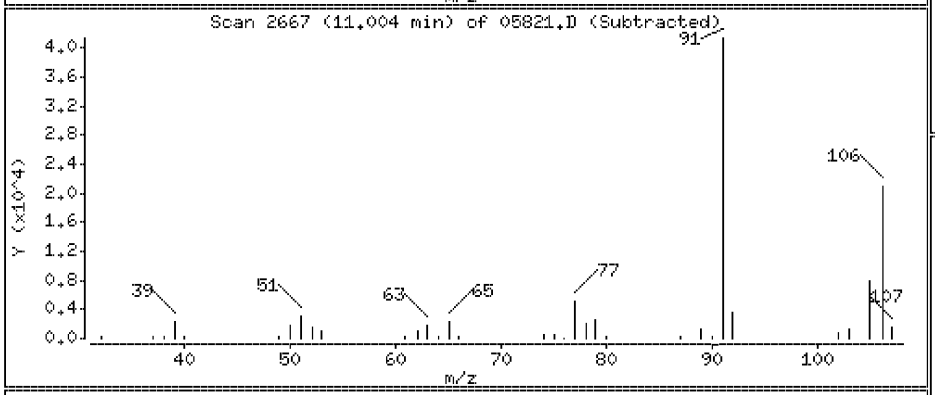
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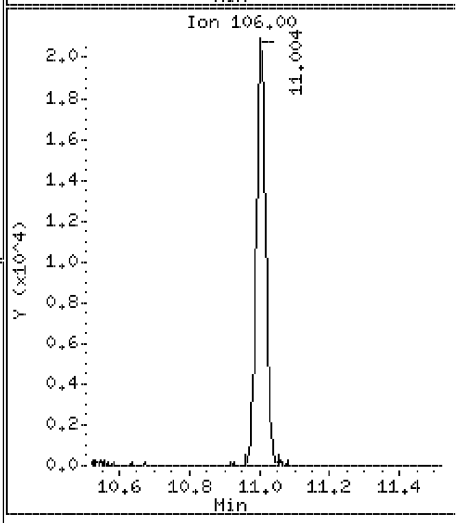
63 o-Xylene

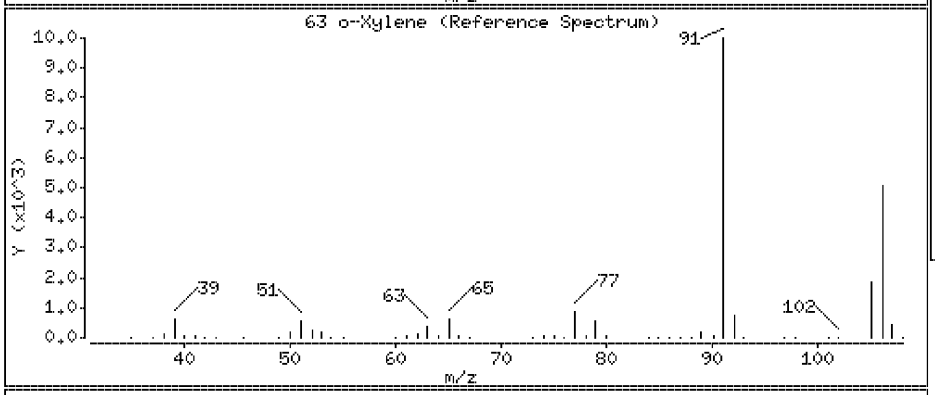
Concentration: 1.08 ppbv

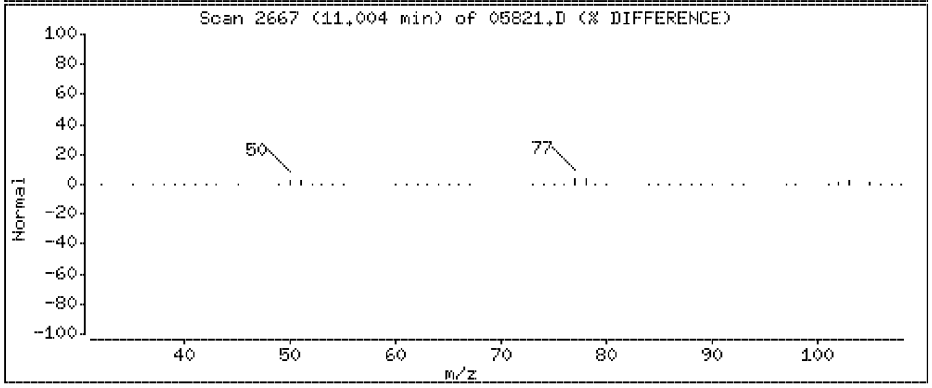












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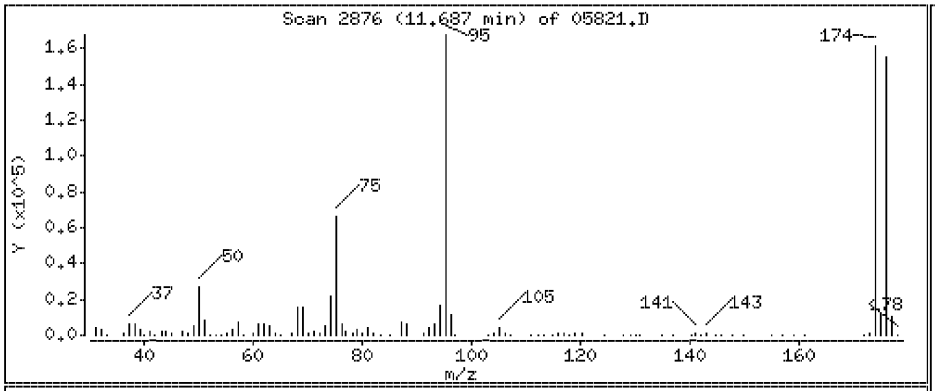
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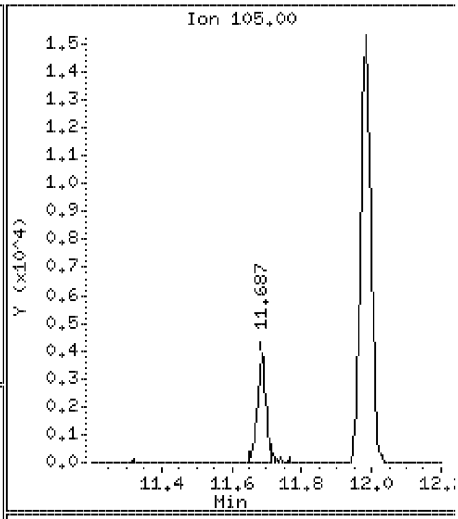
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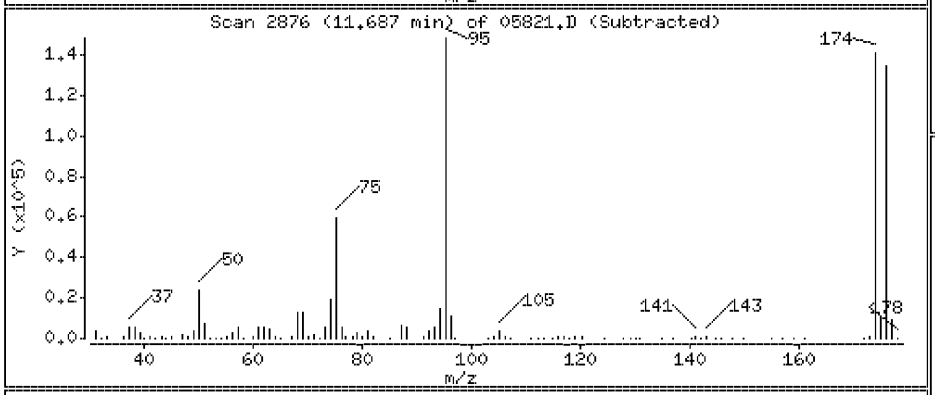
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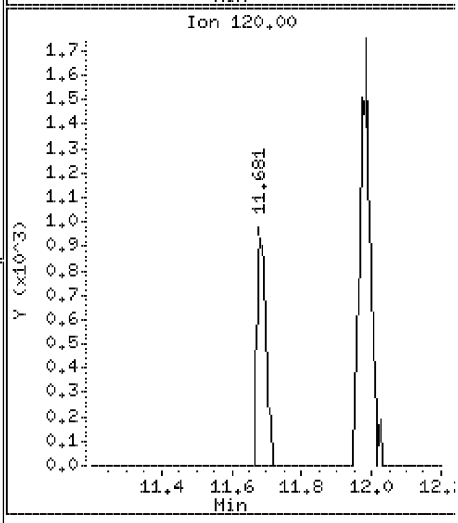
65 Isopropylbenzene

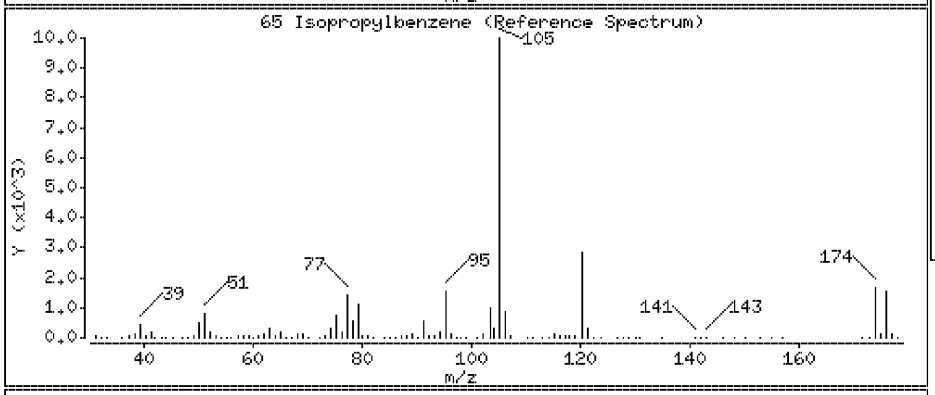
Concentration: 0.111 ppbv

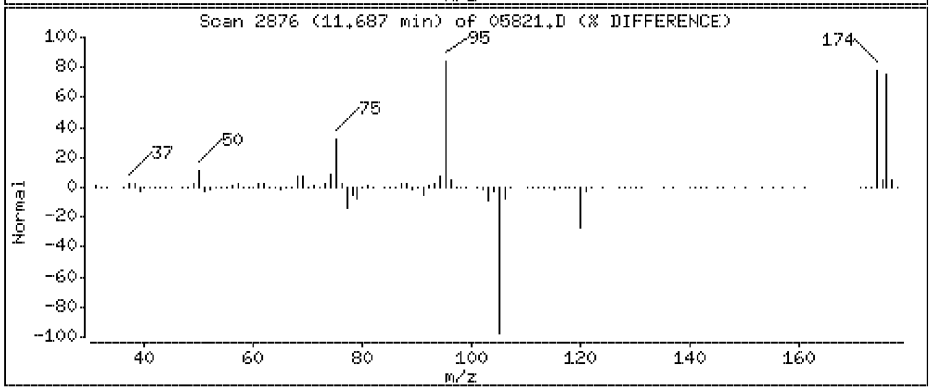












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Date : 27-FEB-2012 22:06

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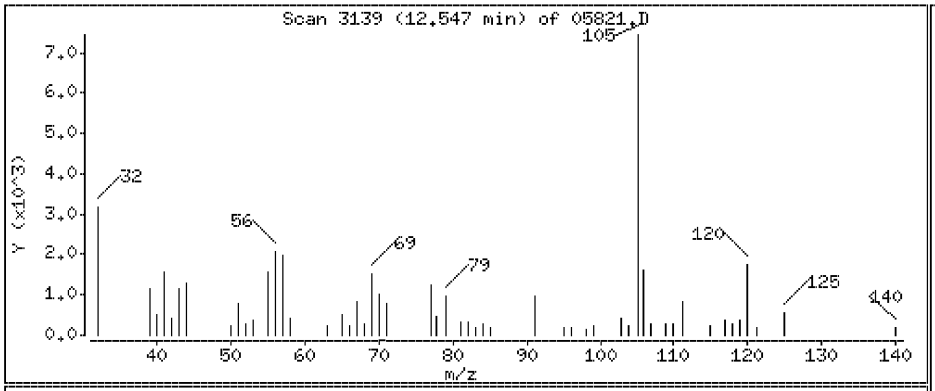
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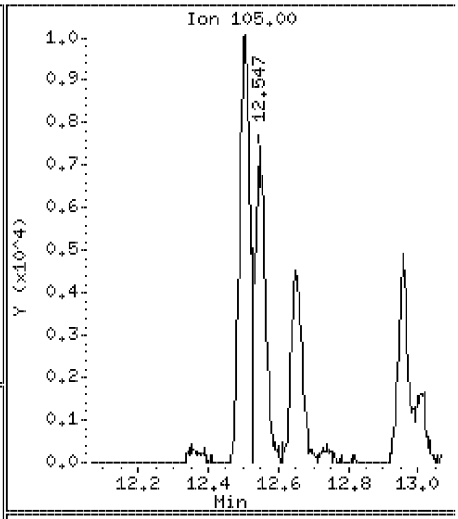
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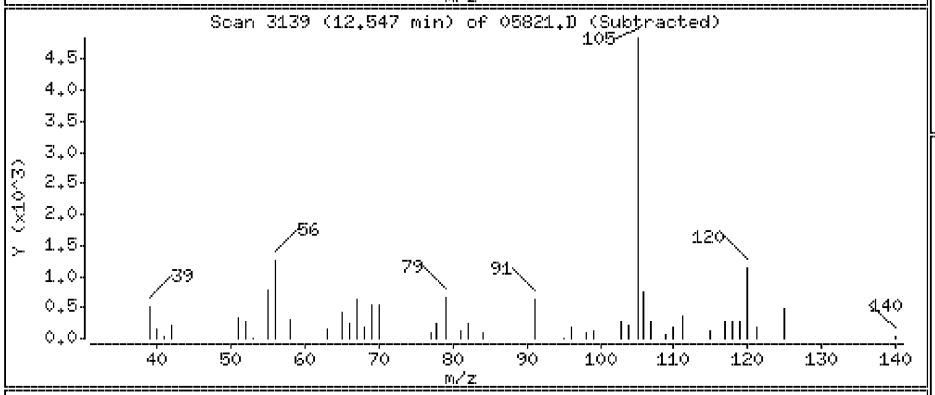
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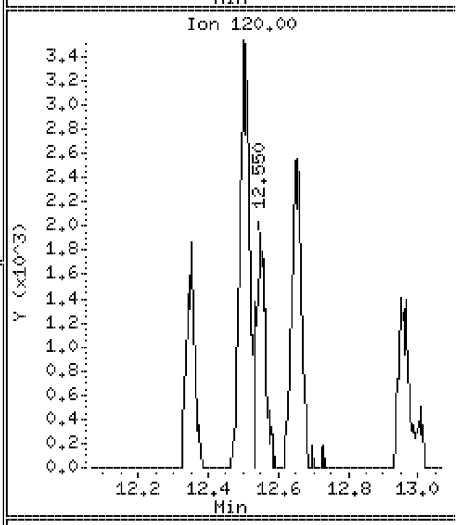
67 4-Ethyltoluene

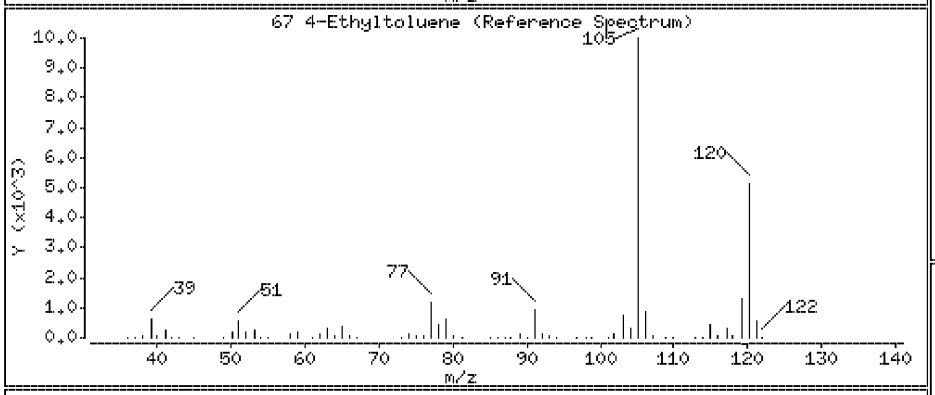
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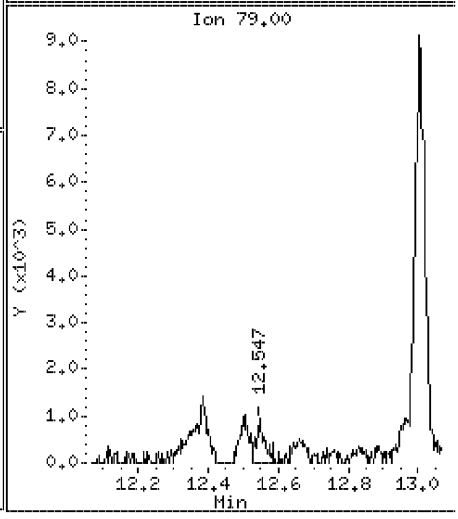


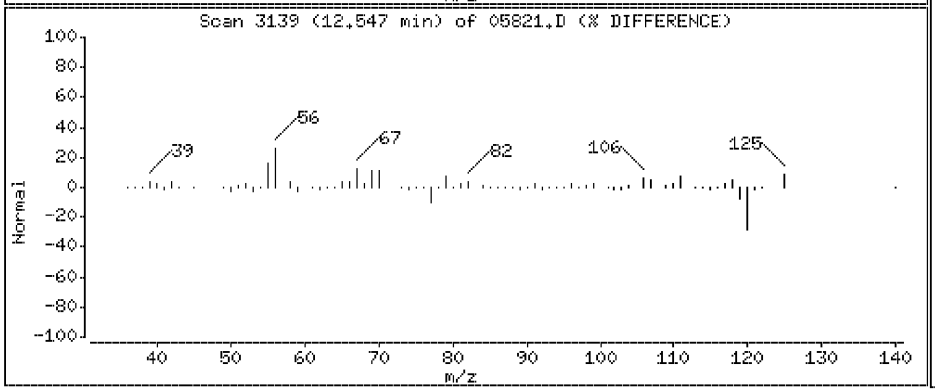












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

Sample Info:

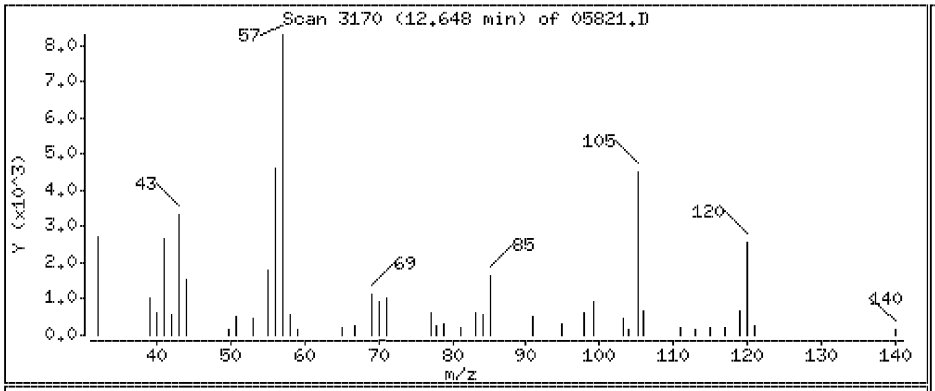
Operator: SK4

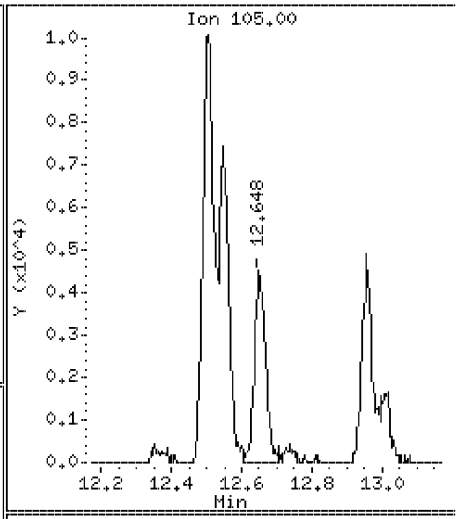
Column phase: J&W DB-5

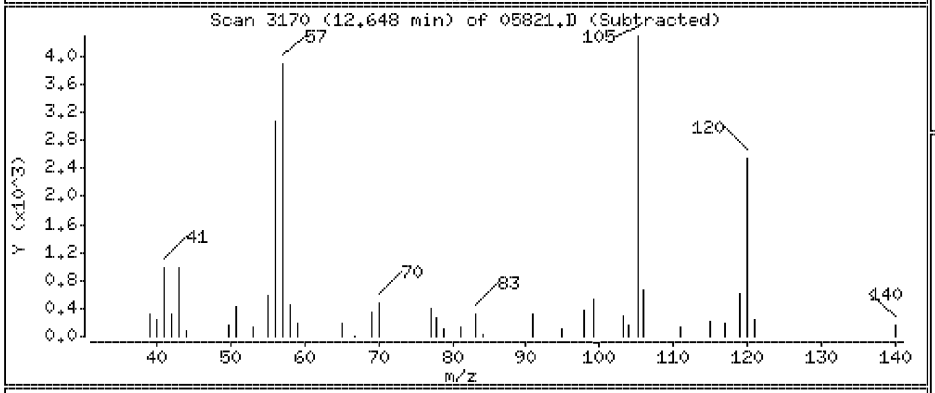
Column diameter: 0.32

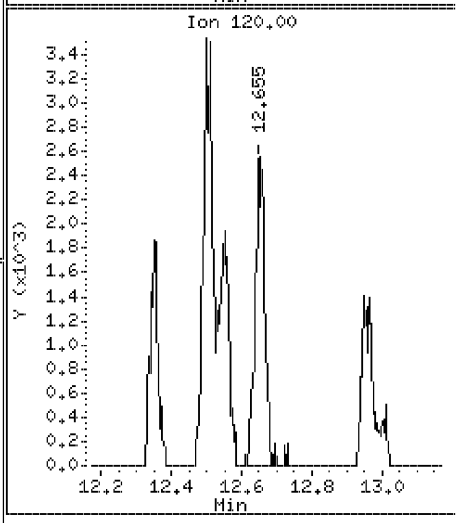
68 1,3,5-Trimethylbenzene

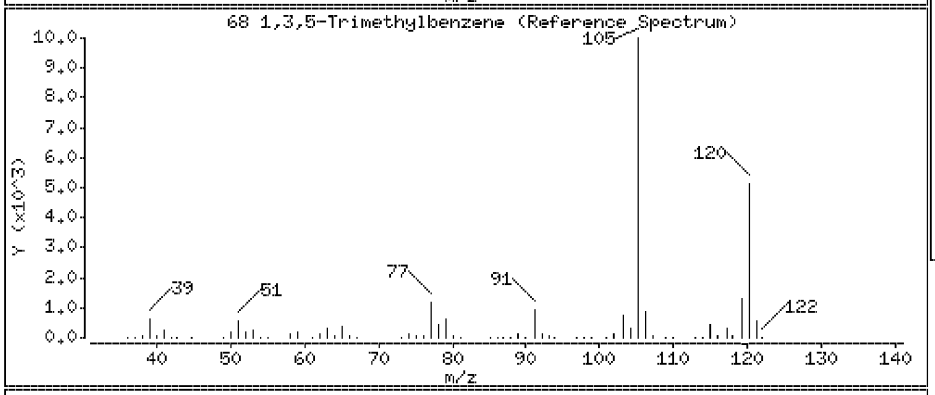
Concentration: 0.259 ppbv

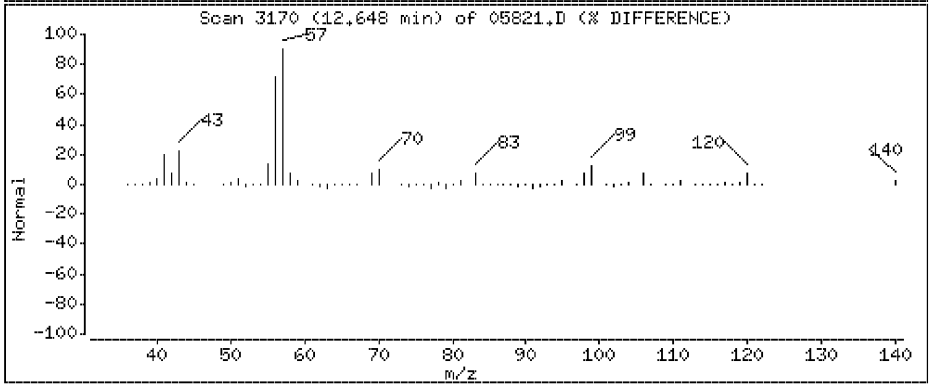












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

Sample Info:

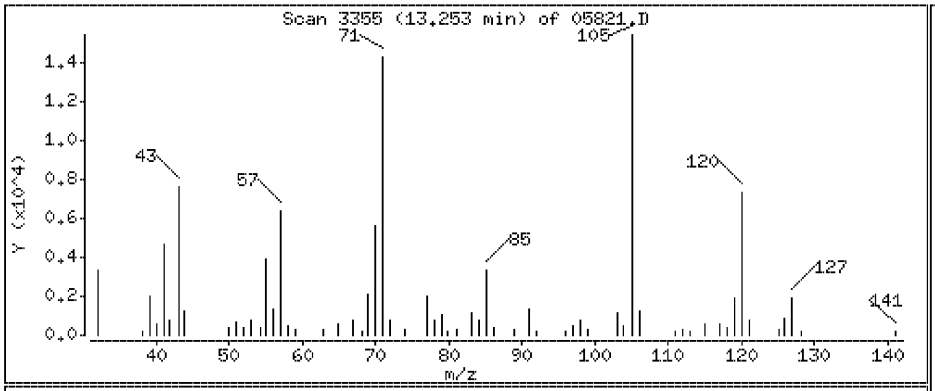
Operator: SK4

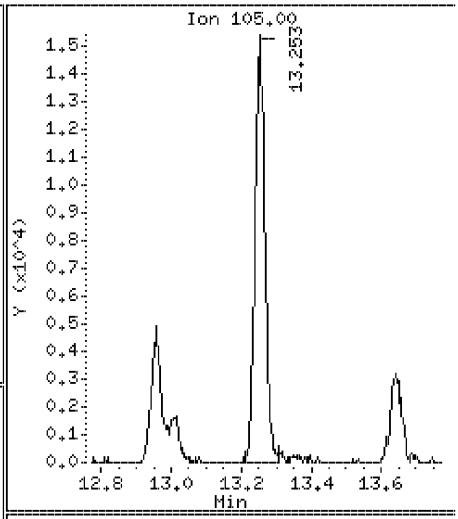
Column phase: J&W DB-5

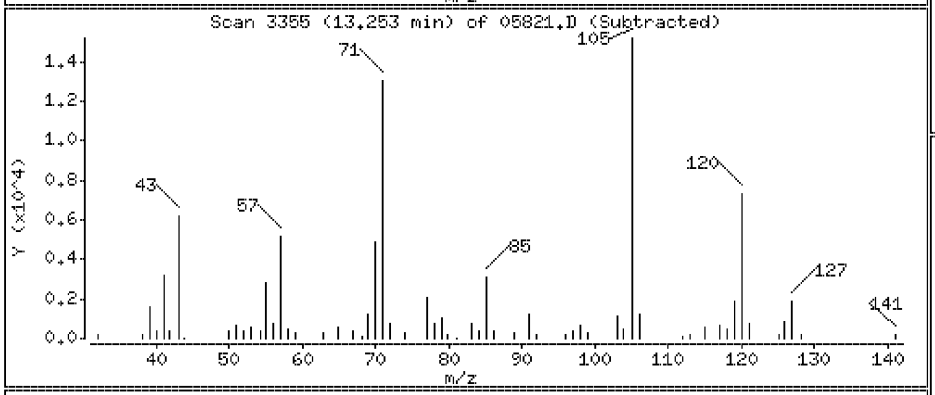
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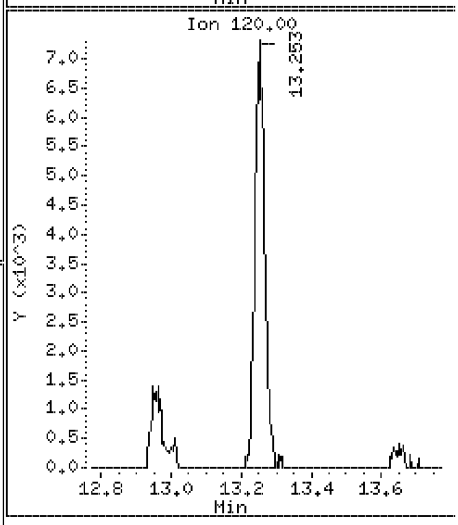
69 1,2,4-Trimethylbenzene

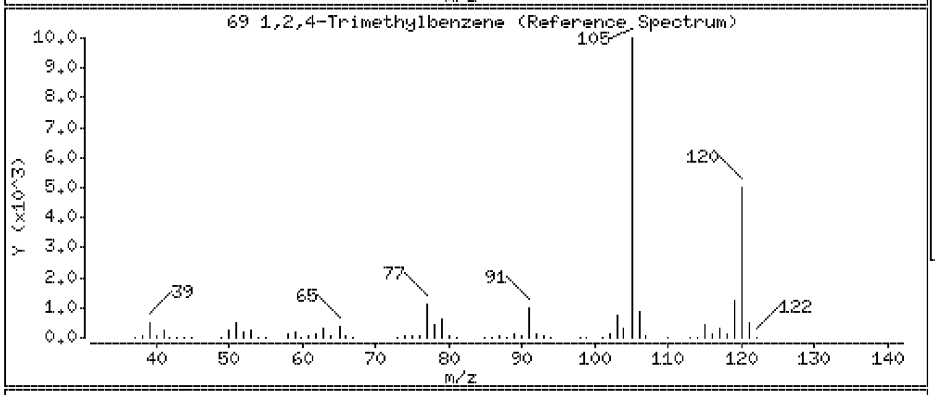
Concentration: 0.556 ppbv

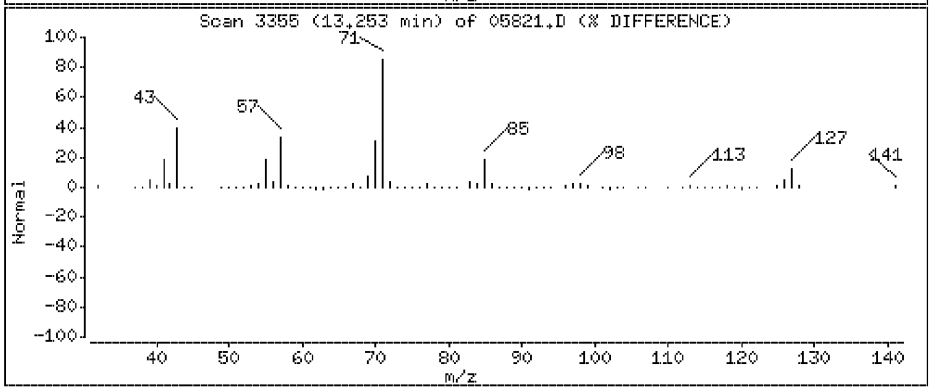












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05821.D

Date : 27-FEB-2012 22:06

Client ID:

Instrument: 10airD.i

Sample Info:

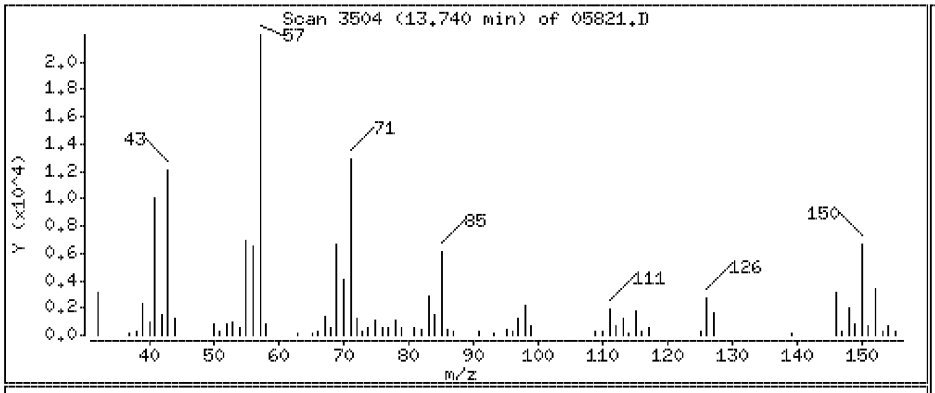
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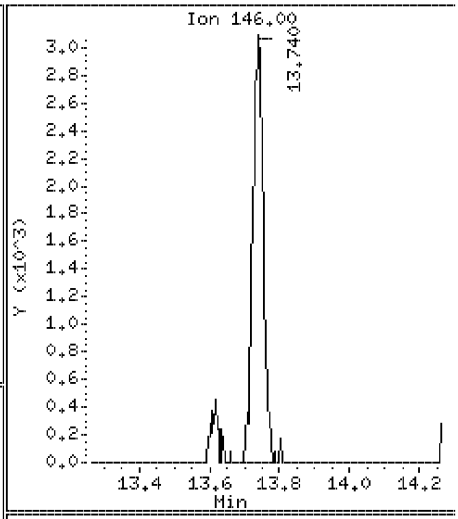
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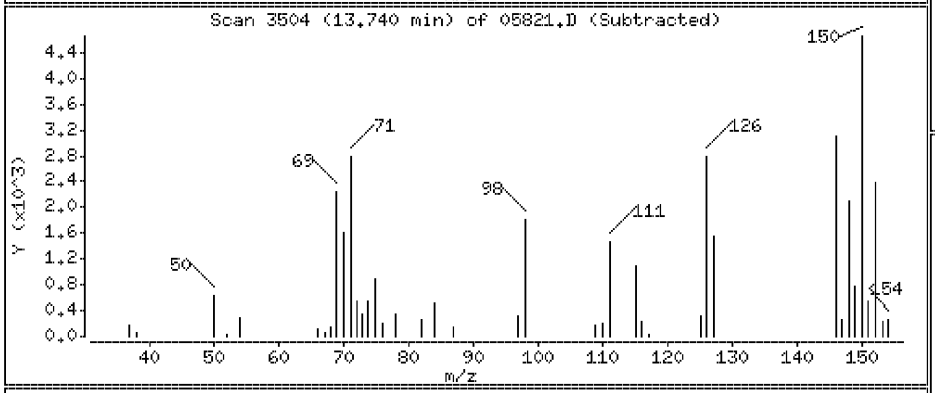
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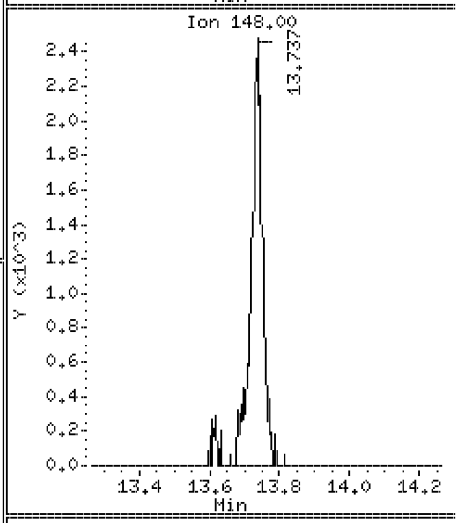
74 1,4-Dichlorobenzene

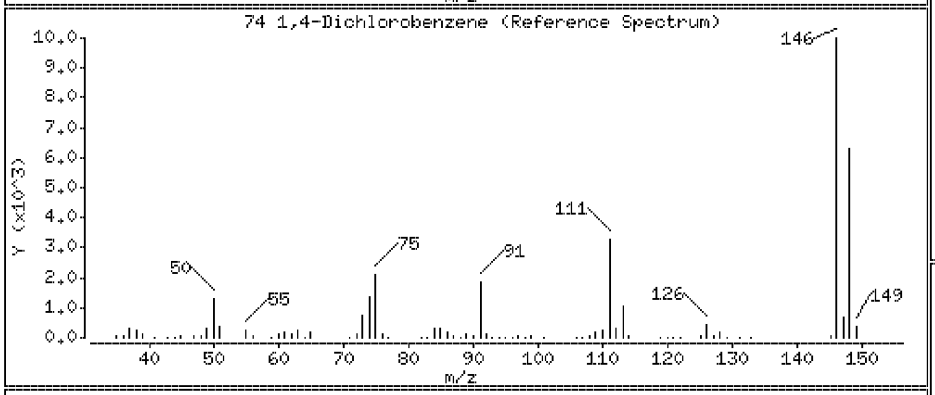
Concentration: 0.238 ppbv

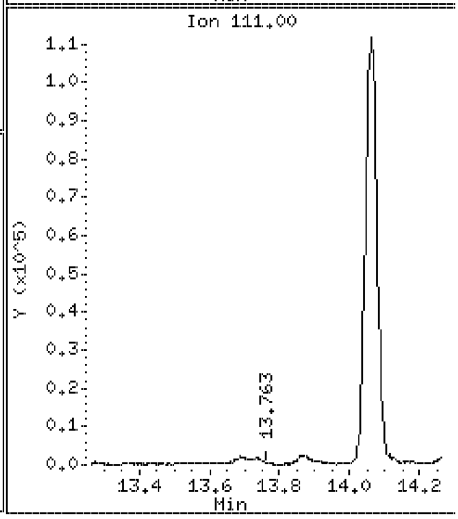


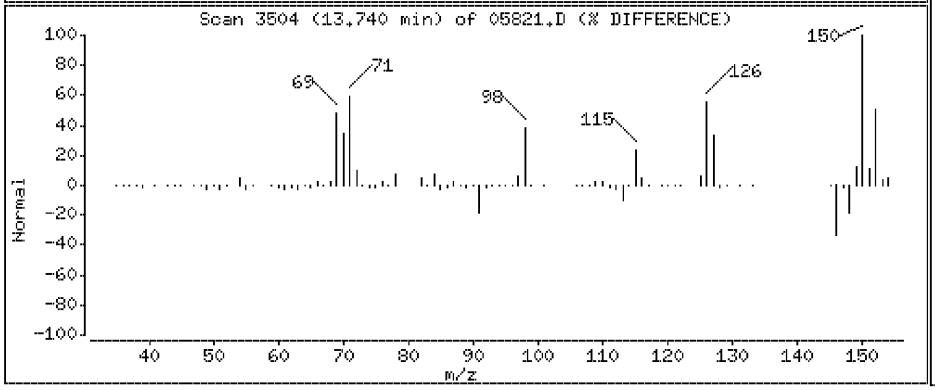






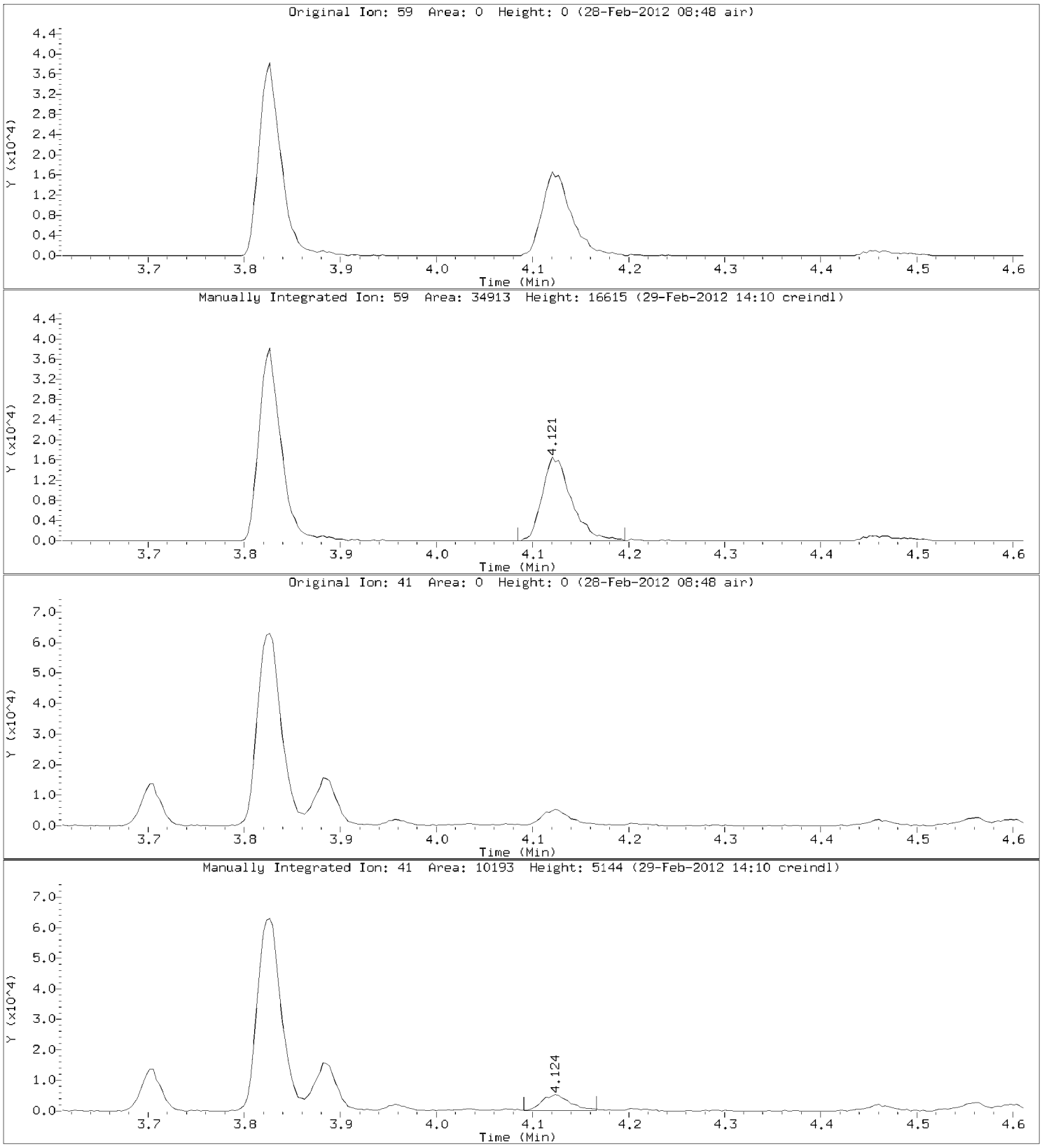






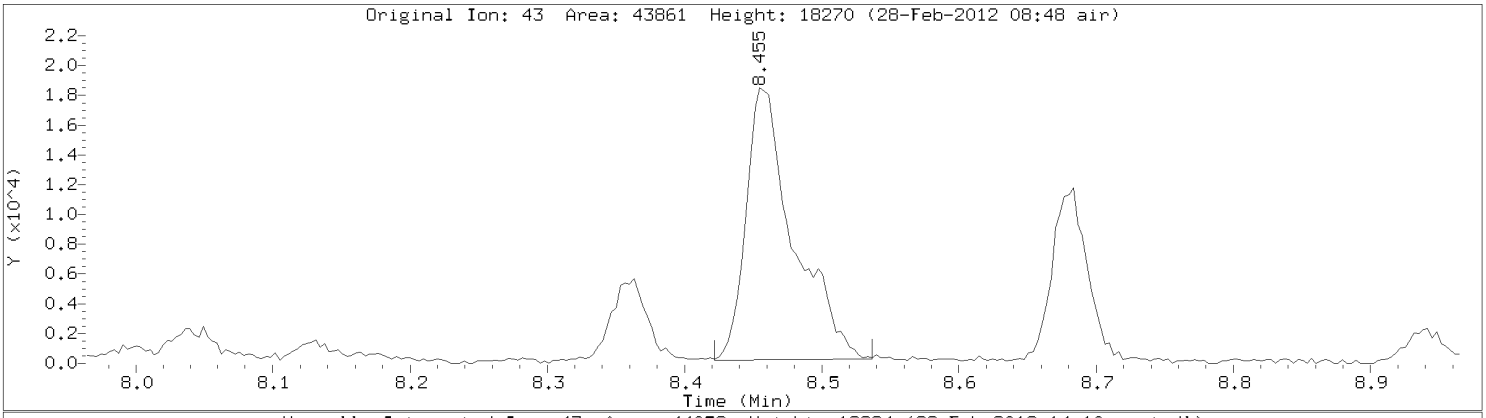
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

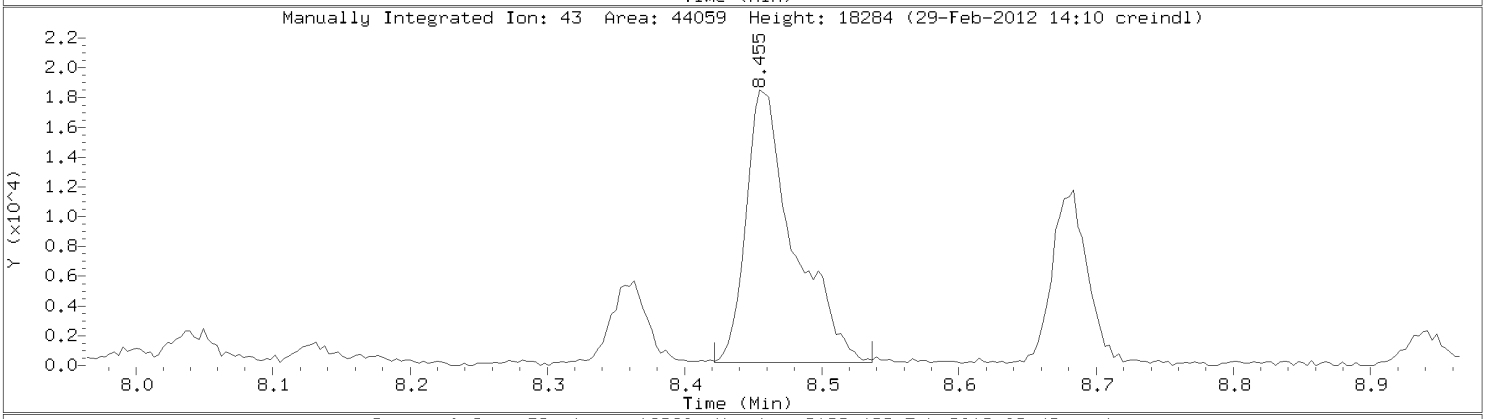
Compound: Tert Butyl Alcohol
CAS Number: 75-65-0

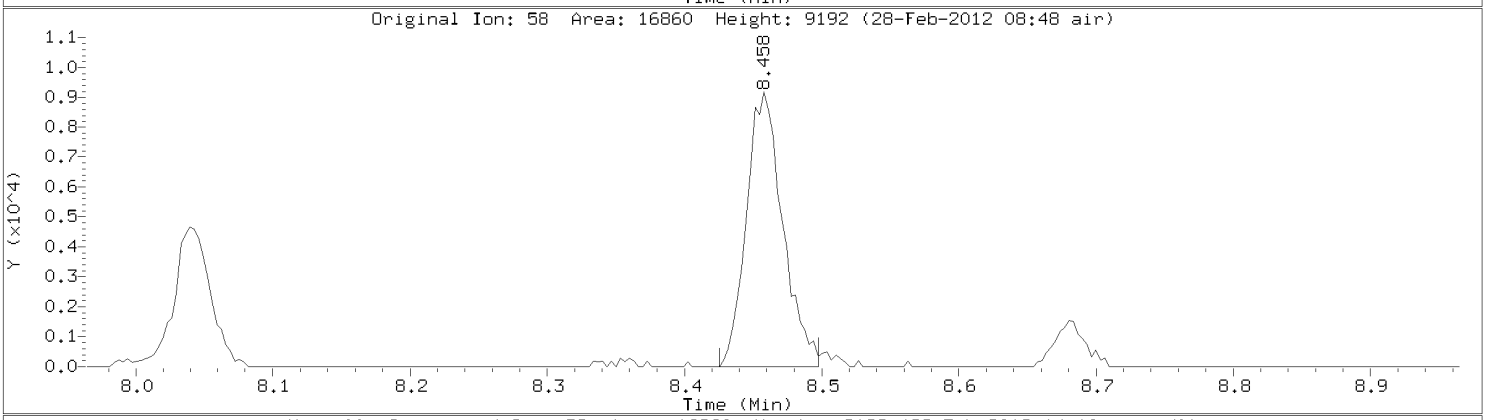


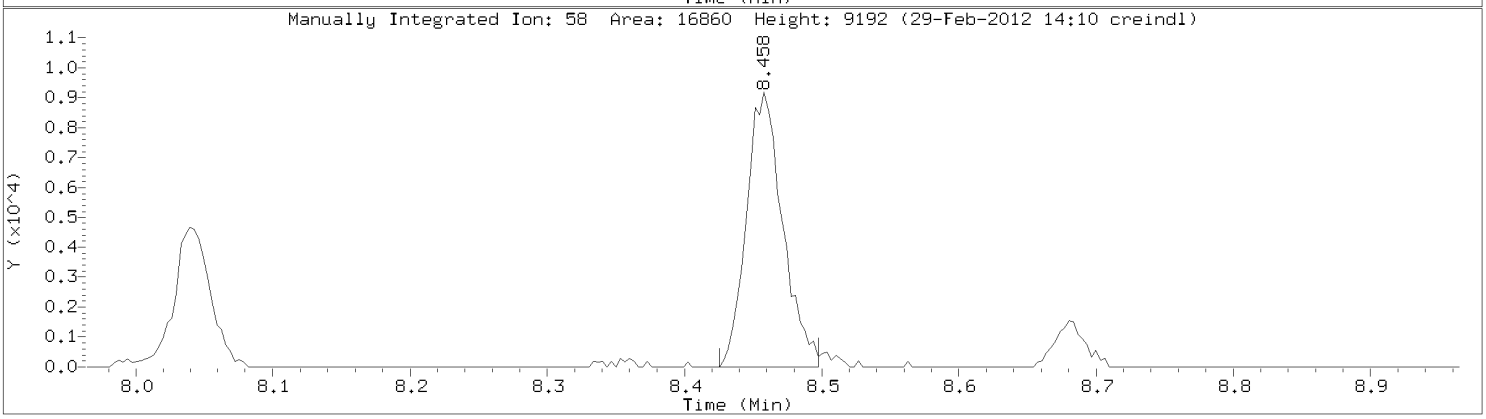
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

Compound: Methyl Butyl Ketone
CAS Number: 591-78-6



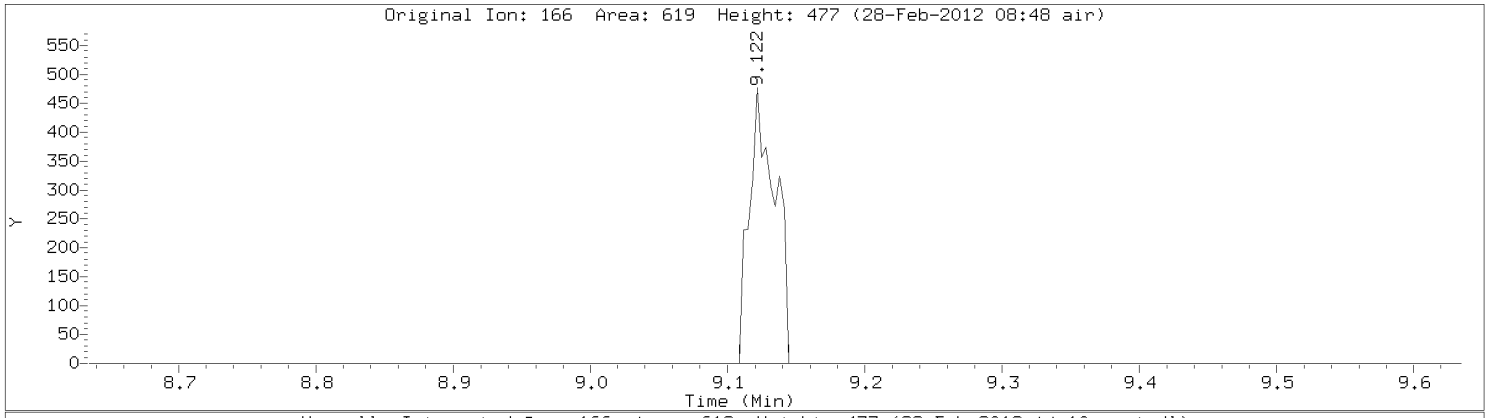


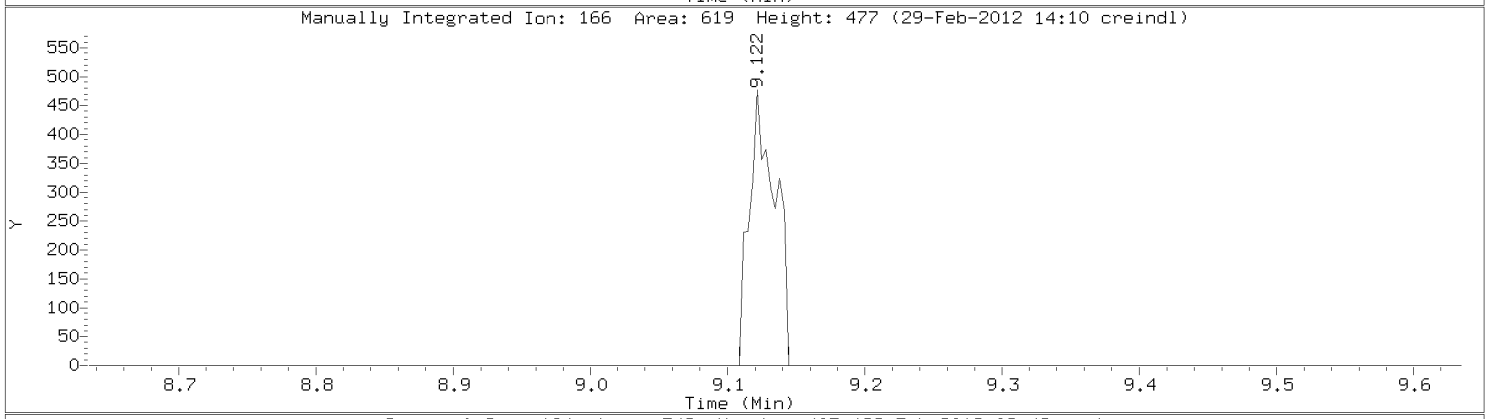


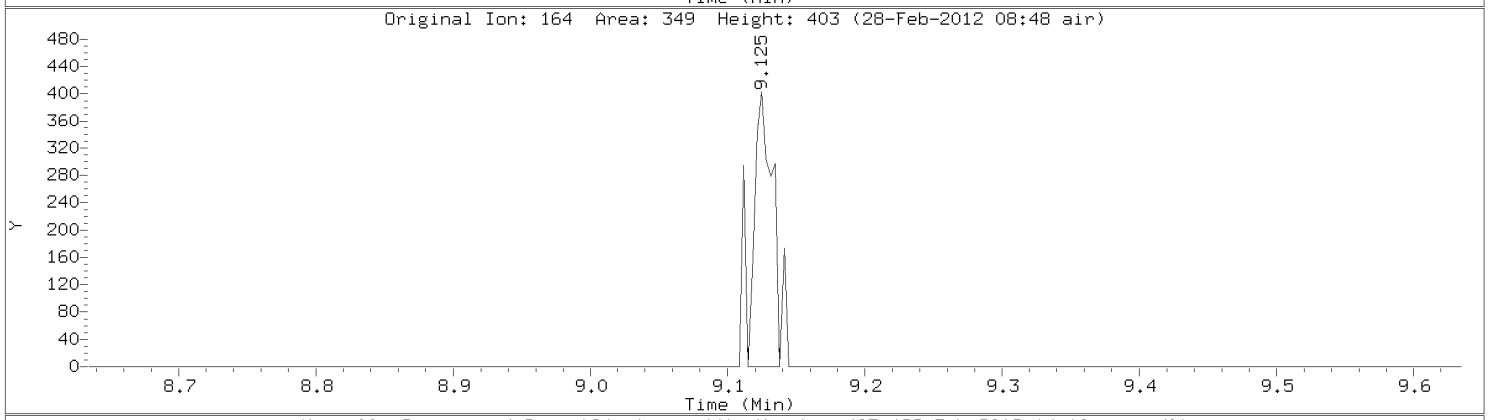


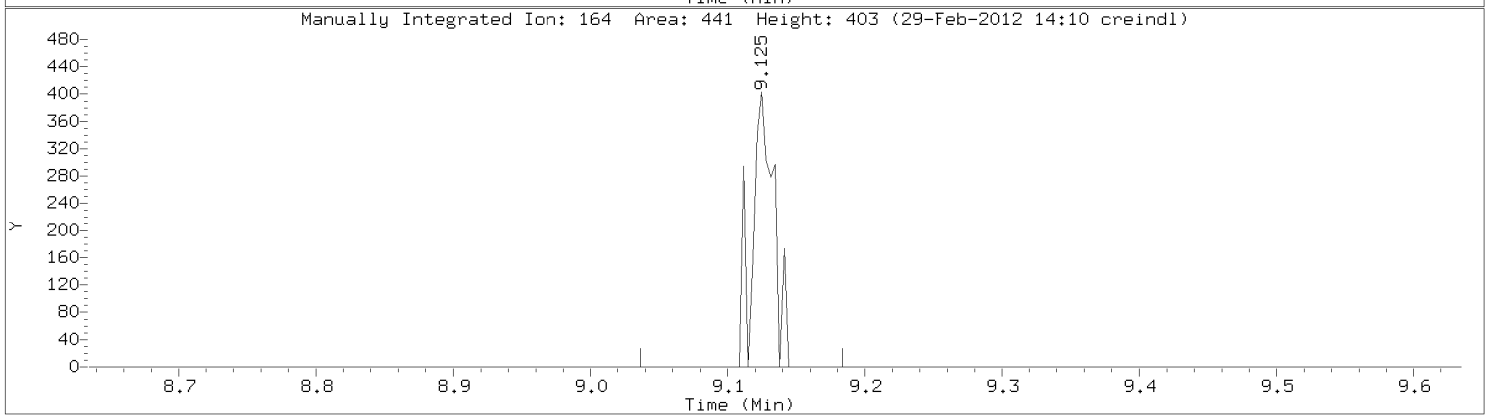
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

Compound: Tetrachloroethene
CAS Number: 127-18-4

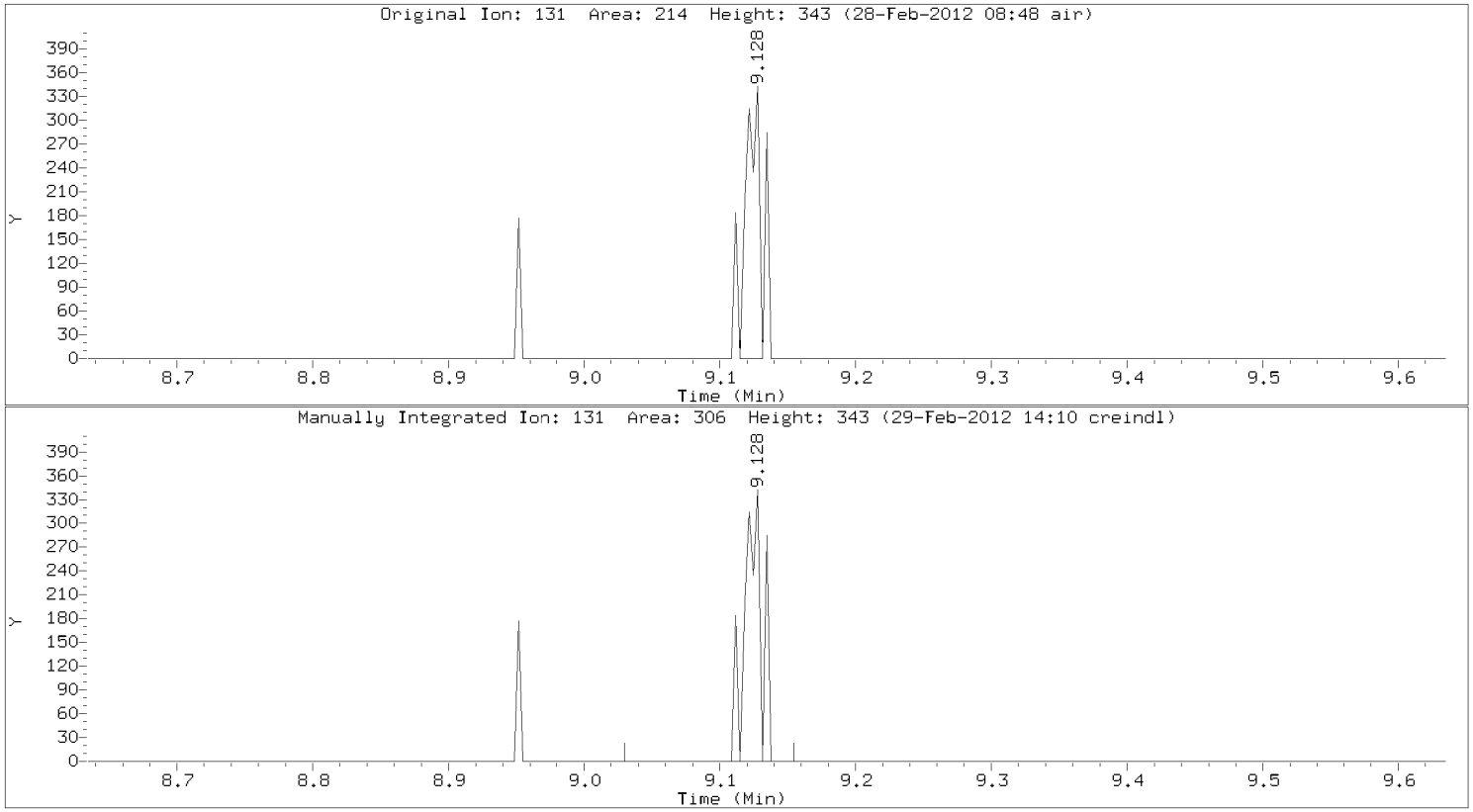






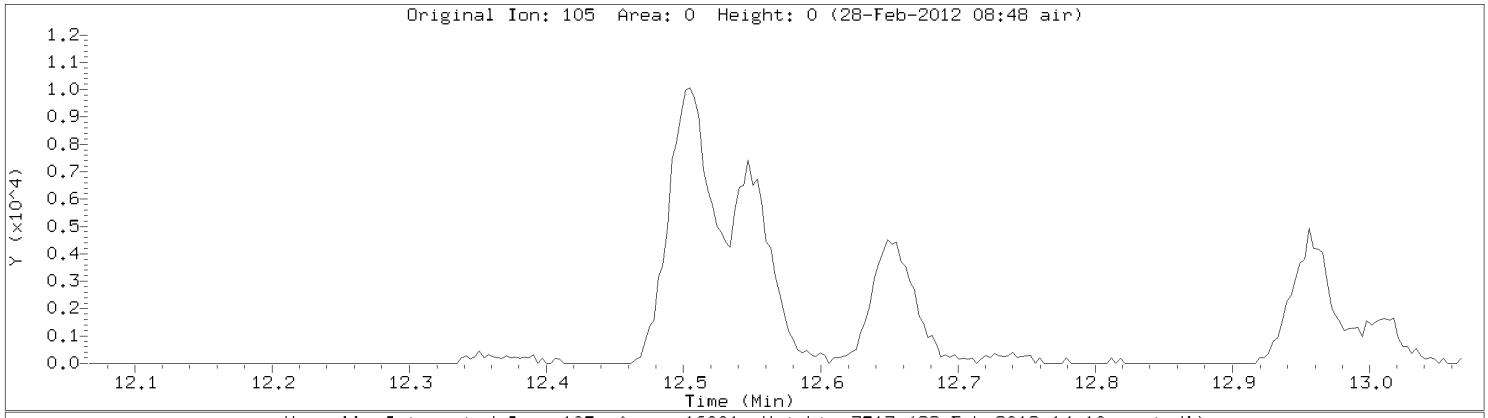


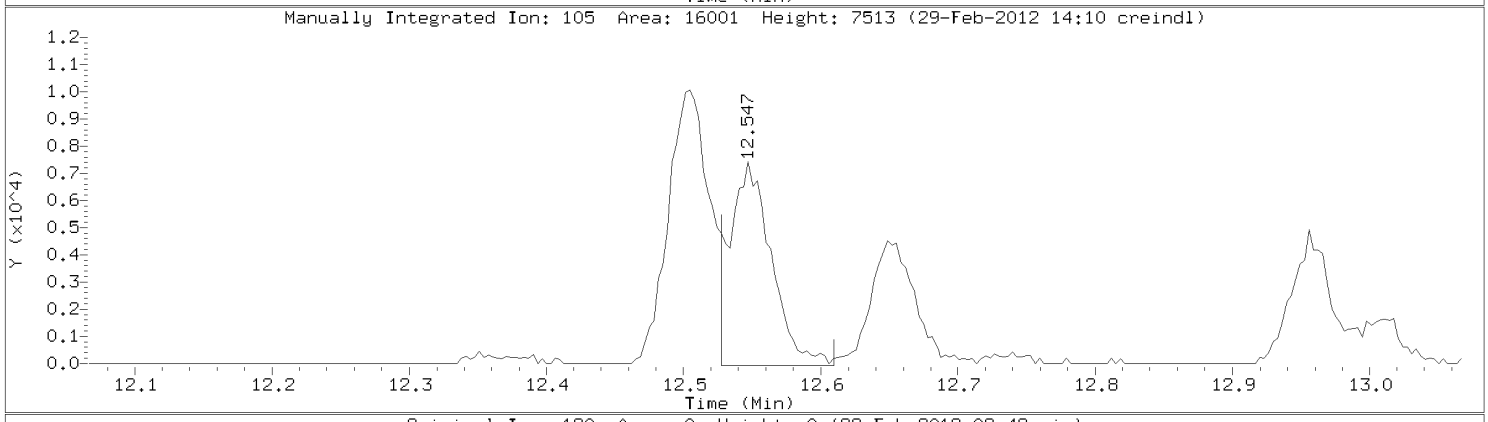
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

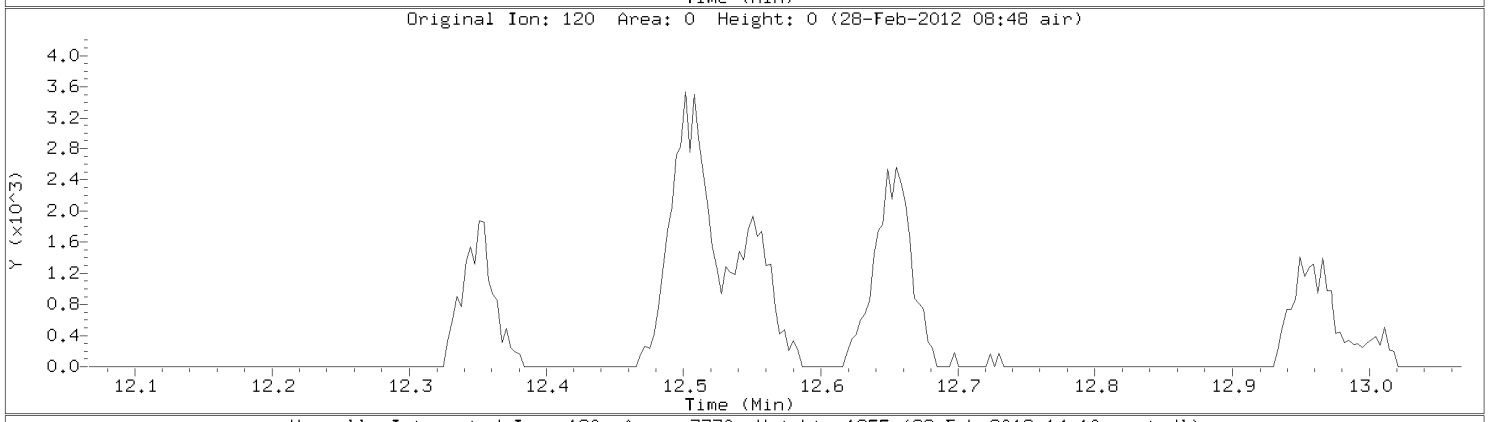


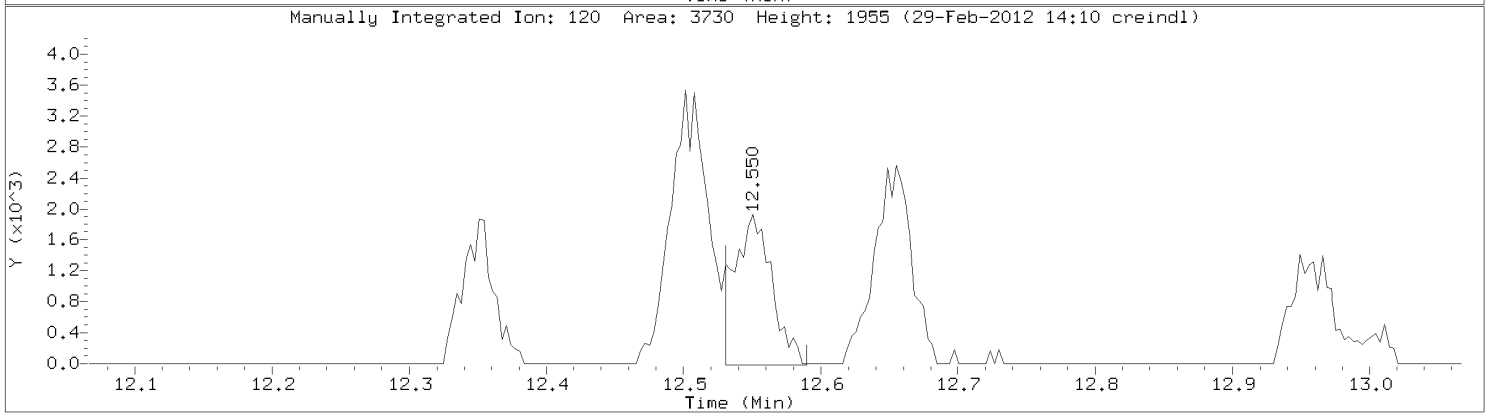
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

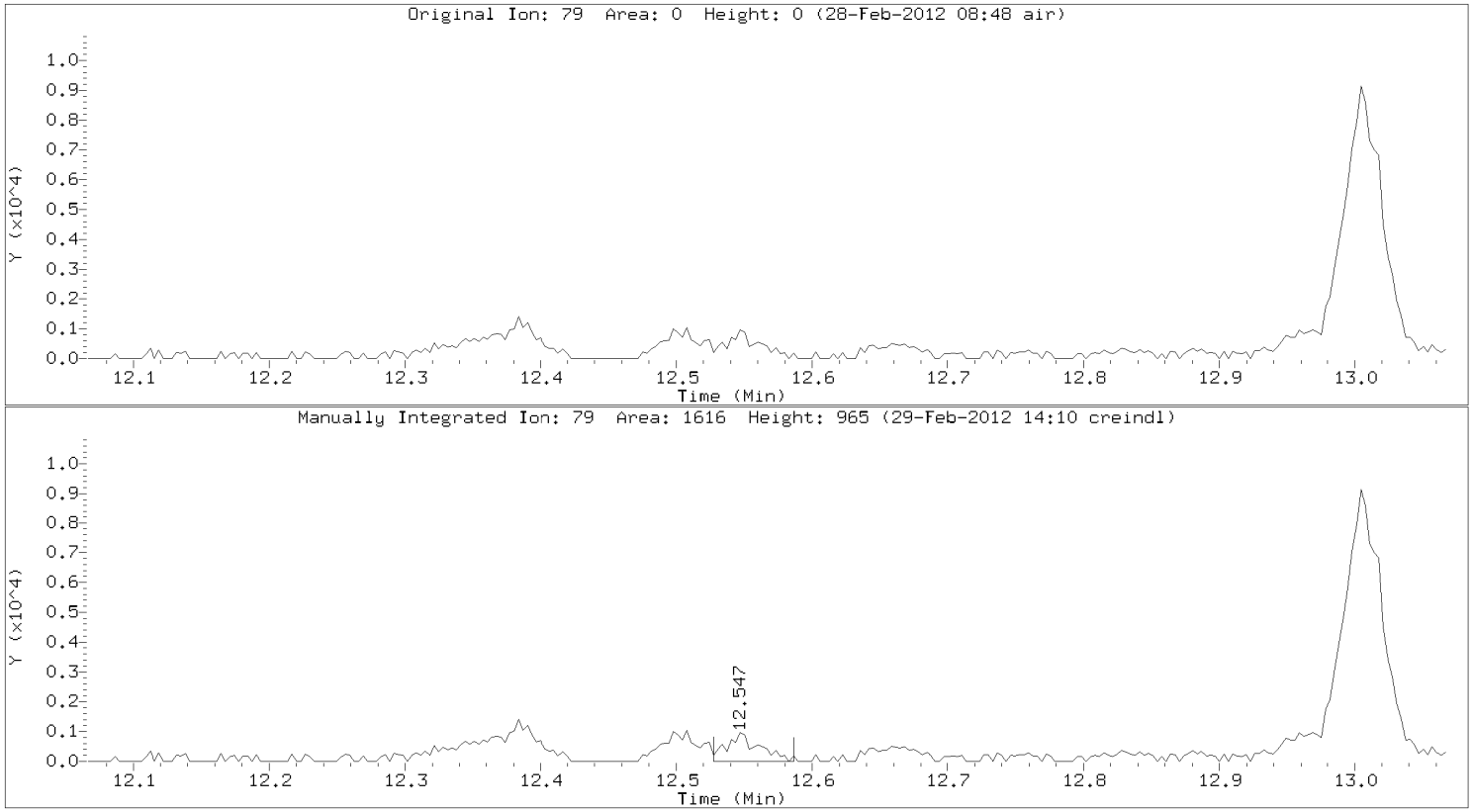






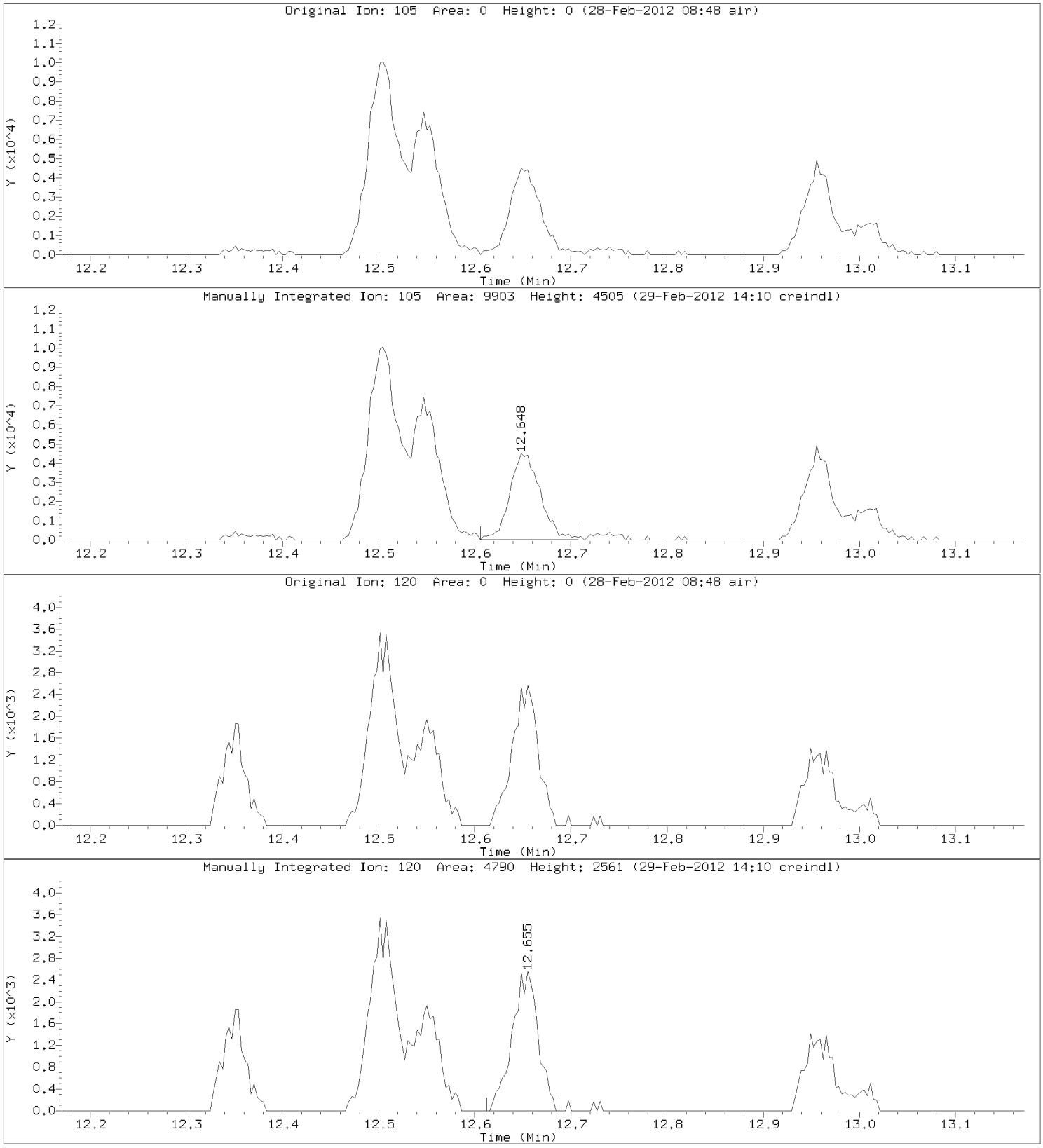


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413



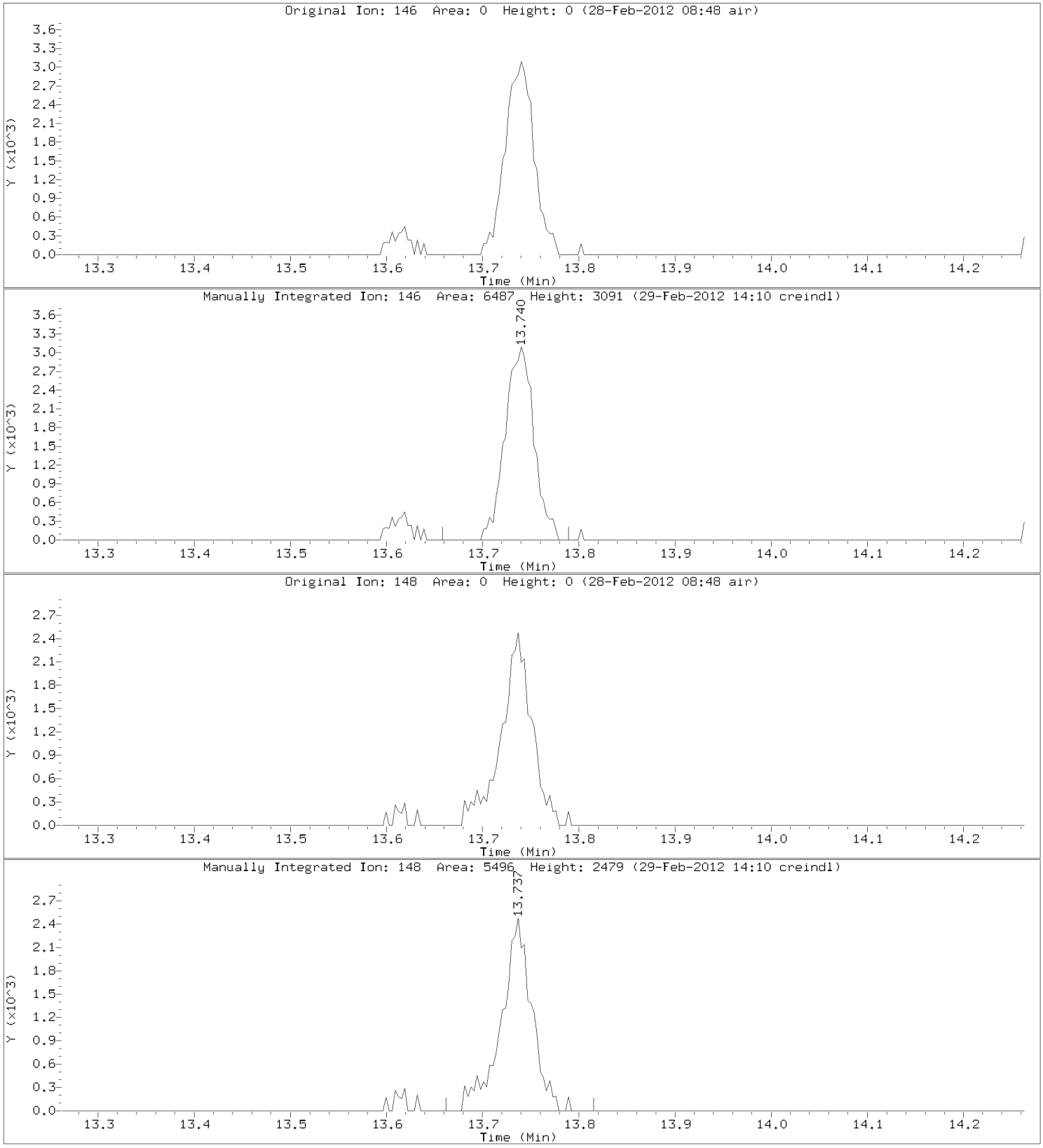
Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

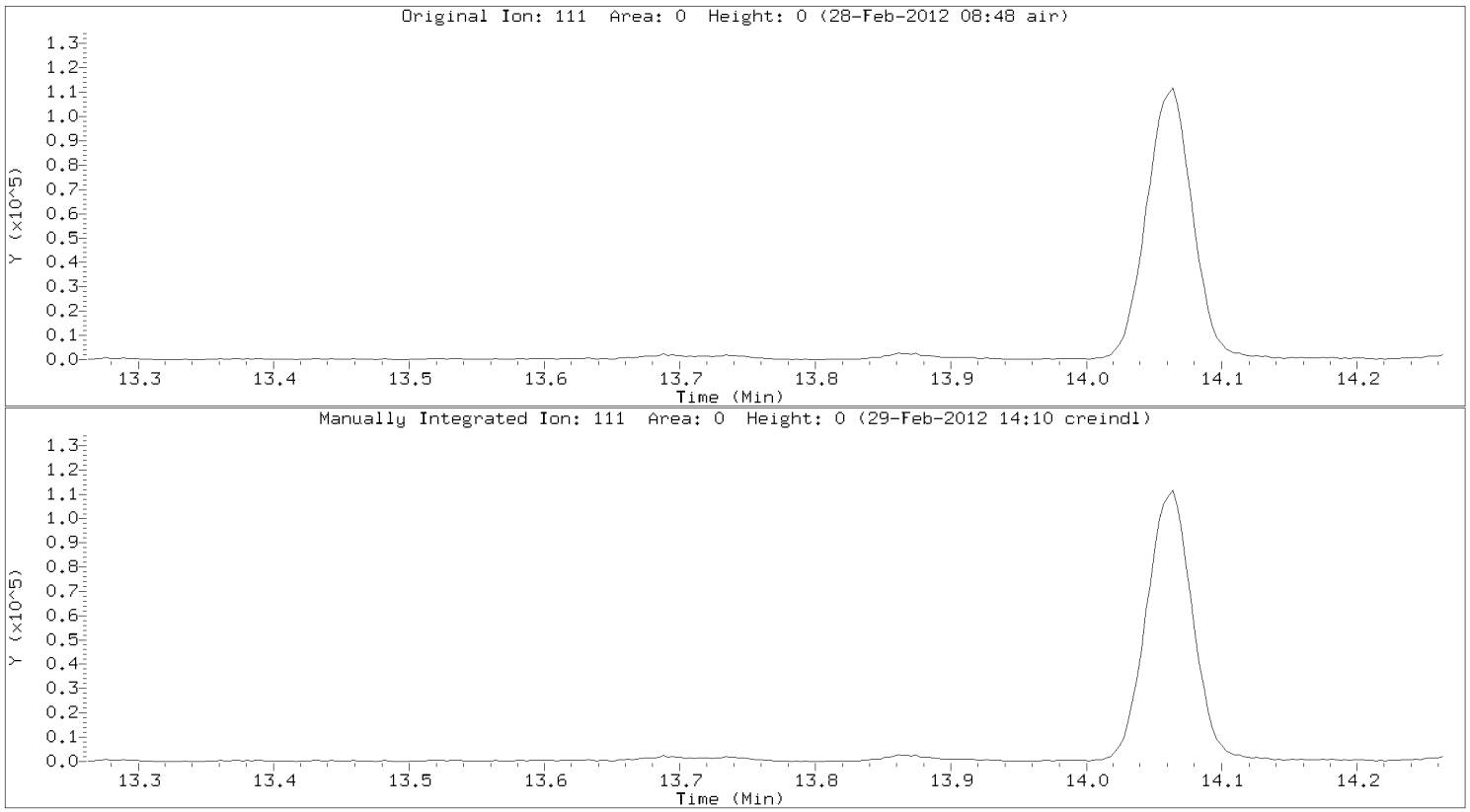


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05821.D
Injection Date: 27-FEB-2012 22:06
Instrument: 10airD.i
Lab Sample ID: 1146413



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Report Date: 24-Feb-2012 08:11

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Lab Smp Id: 5058707001
Inj Date : 23-FEB-2012 14:02
Operator : CJR Inst ID: 10airB.i
Smp Info :
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 5
Dil Factor: 1.26000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.260	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	Compound Not Detected.					
	8 Chloroethane	64	Compound Not Detected.					
	13 1,1-Dichloroethene	61	Compound Not Detected.					
	17 trans-1,2-dichloroethene	96	Compound Not Detected.					
	18 Methyl Tert Butyl Ether	73	Compound Not Detected.					
	20 1,1-Dichloroethane	63	Compound Not Detected.					
$	21 Hexane-d14(S)	66	5.294	5.301	(0.784)	679358	14.9768	15.0(R)
	24 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,2-Dichloroethane	62	Compound Not Detected.					
	31 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1082744	10.0000	
	38 Trichloroethene	130	Compound Not Detected.					
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	927441	10.7346	10.7
	44 Toluene	91	8.671	8.672	(1.284)	94456	0.63657	0.802
	49 Tetrachloroethene	166	9.675	9.681	(0.925)	1205	0.01395	0.0176(aQ)
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	596581	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.033)	112893	0.75999	0.958
	53 m&p-Xylene	91	10.980	10.993	(1.049)	363095	2.85974	3.60
	57 o-Xylene	91	11.568	11.574	(1.105)	104507	0.94953	1.20
	60 N-Propylbenzene	91	Compound Not Detected.					
$	66 1,4-dichlorobenzene-d4 (S)	150	14.268	14.275	(1.364)	416903	10.9516	11.0

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Report Date: 24-Feb-2012 08:11

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Report Date: 24-Feb-2012 08:11

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05405.D
Lab Smp Id: 5058707001
Analysis Type: VOA
Quant Type: ISTD
Operator: CJR
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

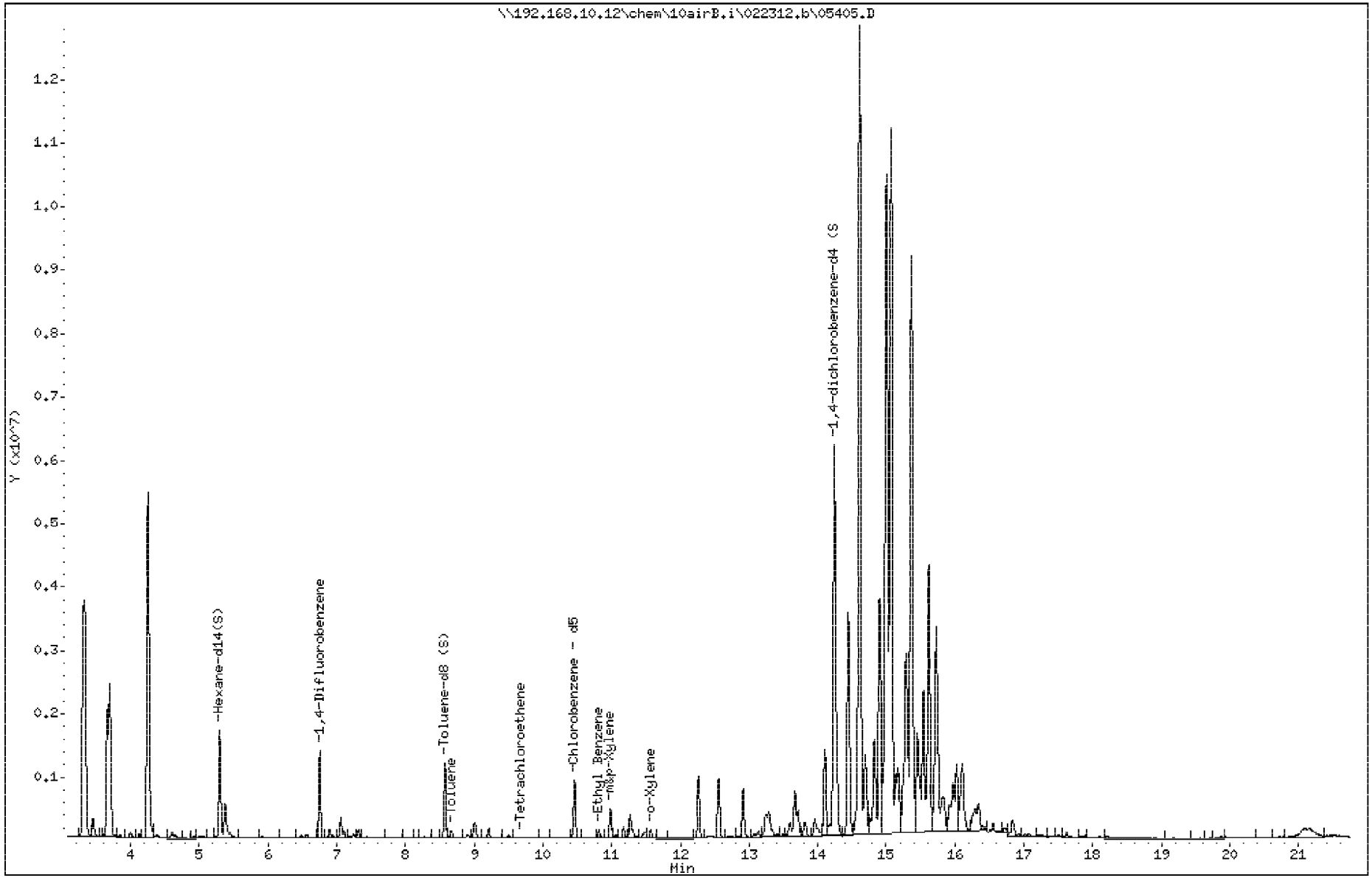
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1082744	-36.72
50 Chlorobenzene - d	907290	544374	1270206	596581	-34.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Date : 23-FEB-2012 14:02
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: CJR
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

Sample Info:

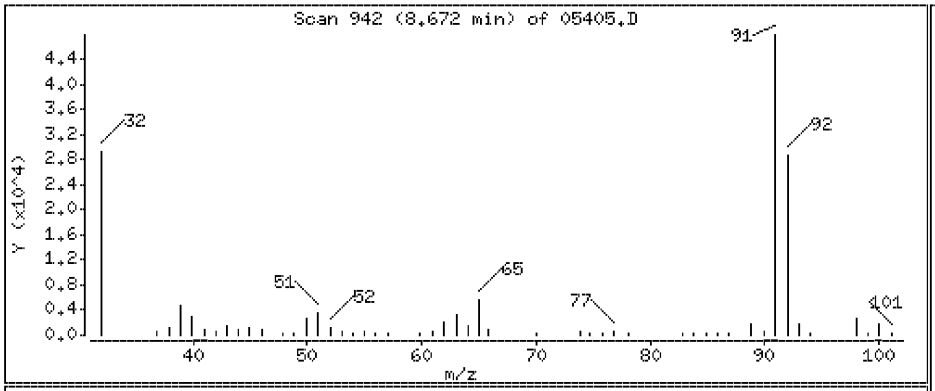
Operator: CJR

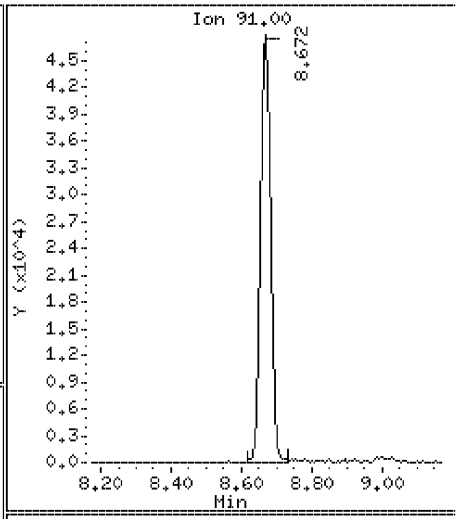
Column phase: J&W DB-5

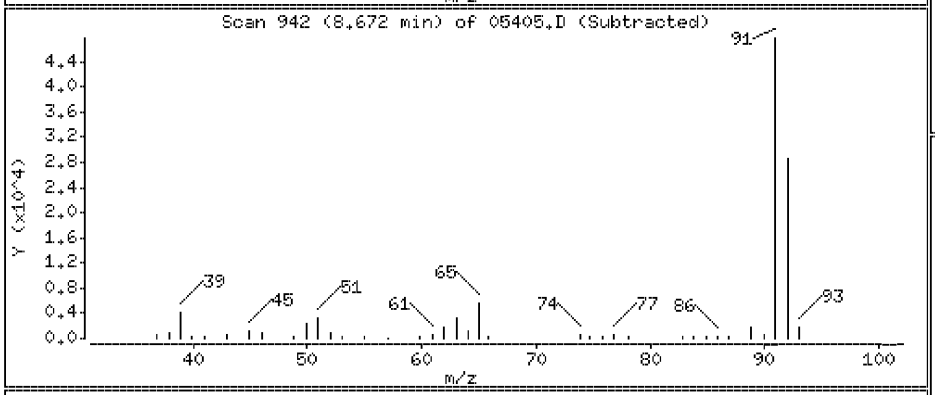
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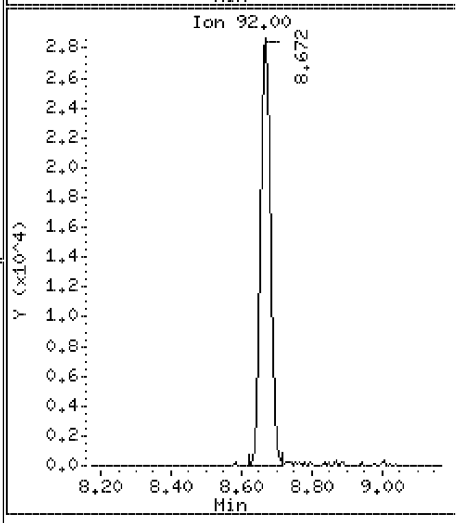
44 Toluene

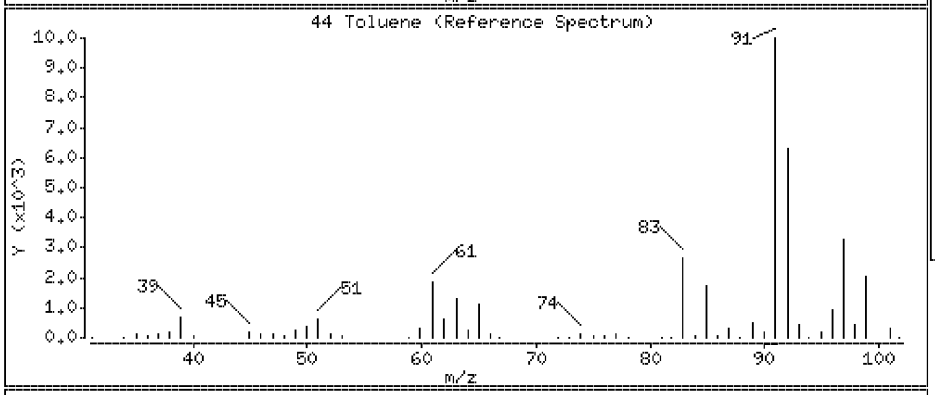
Concentration: 0.802 ppbv

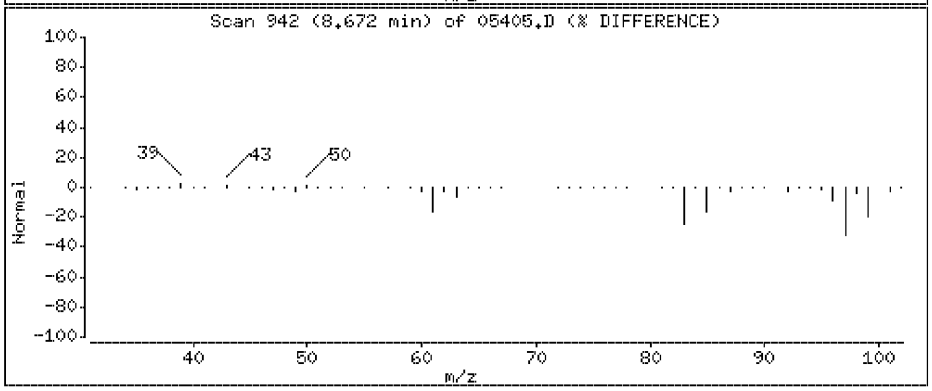












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

Sample Info:

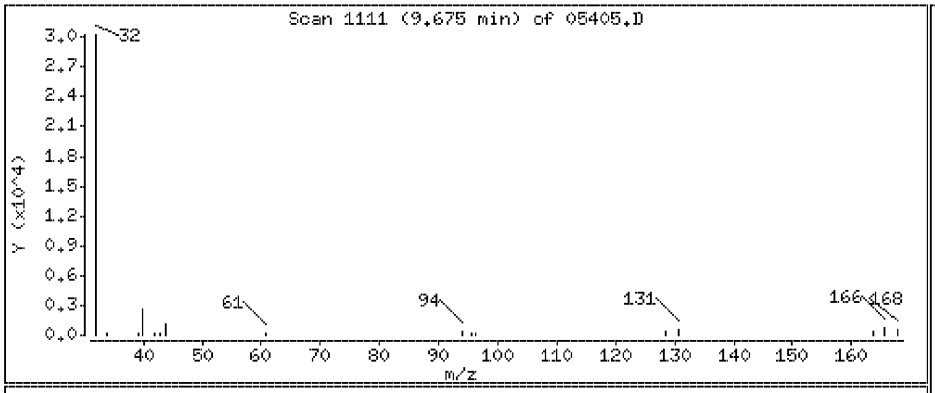
Operator: CJR

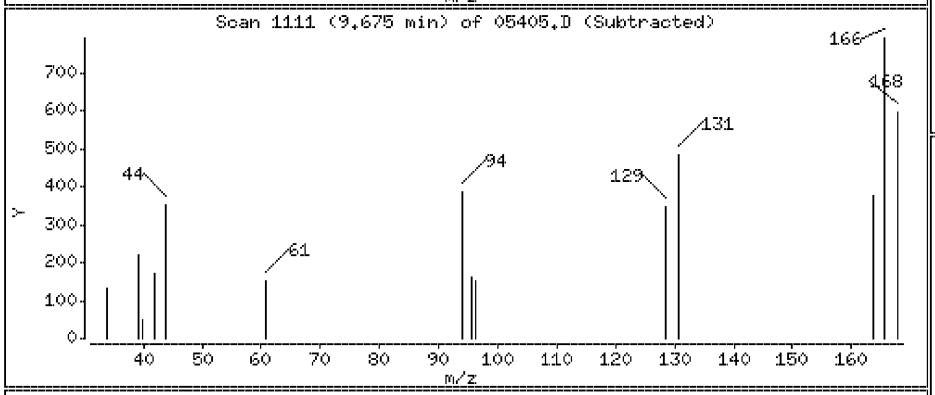
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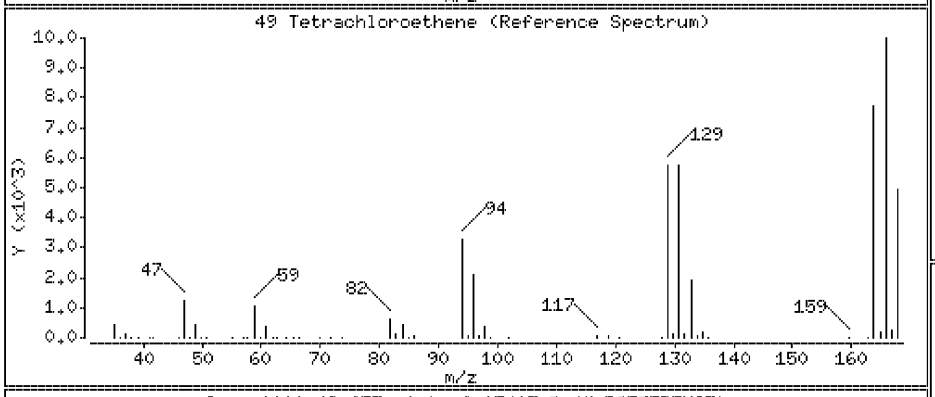
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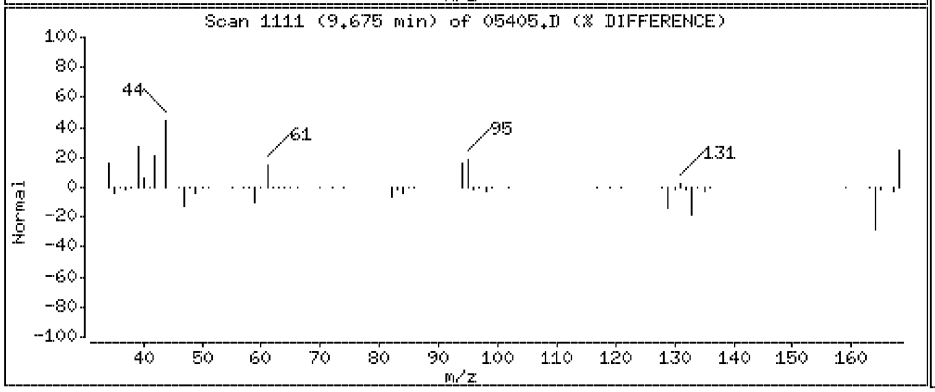
49 Tetrachloroethene

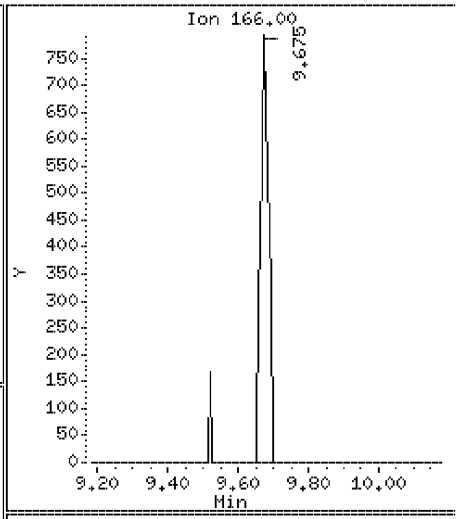
Concentration: 0.0176 ppbv

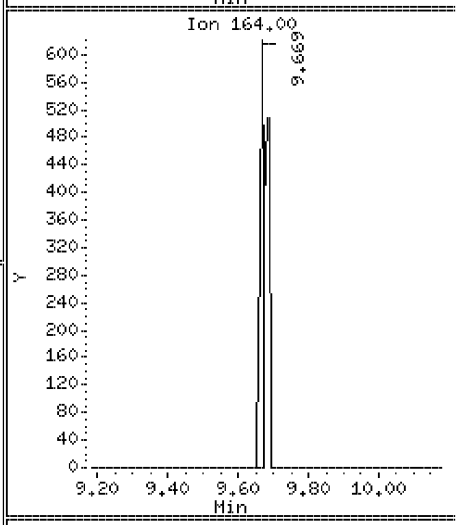


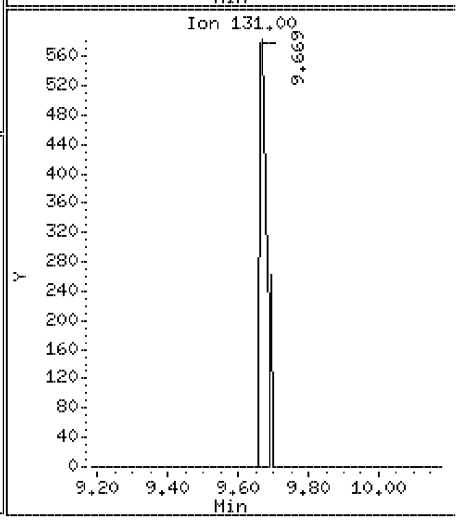












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Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

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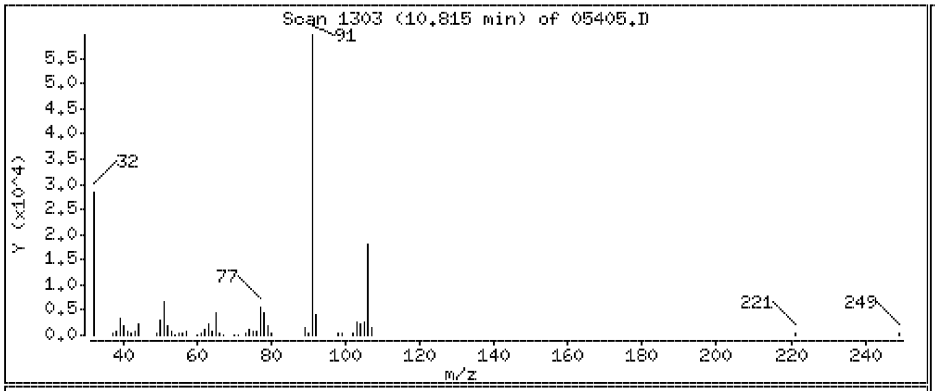
Operator: CJR

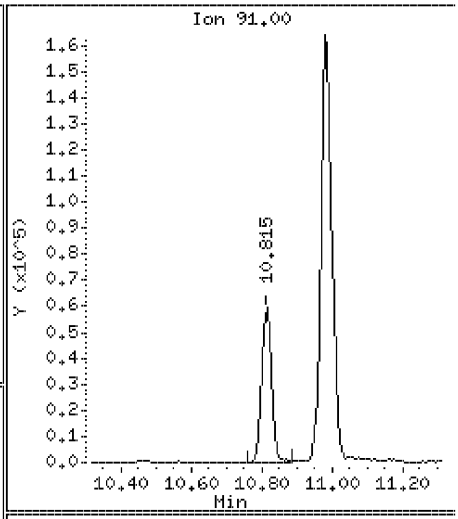
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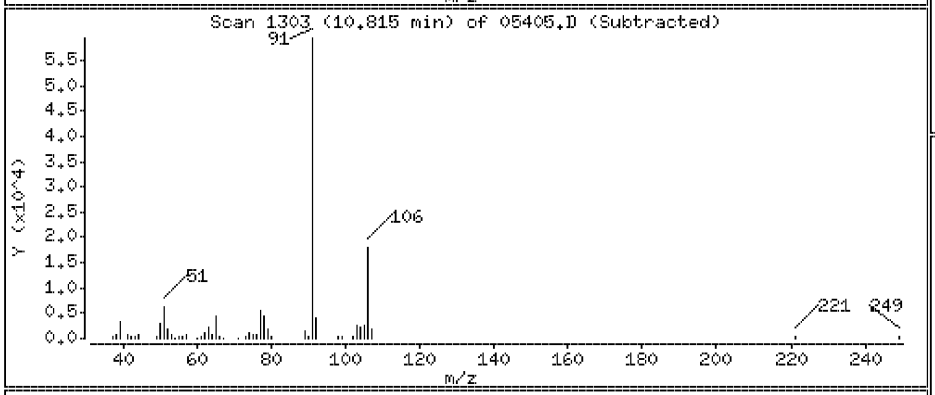
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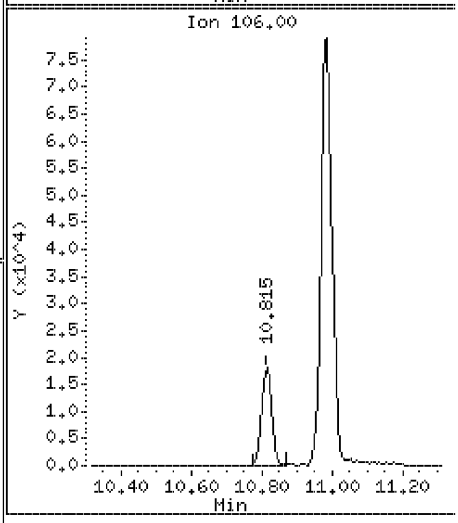
52 Ethyl Benzene

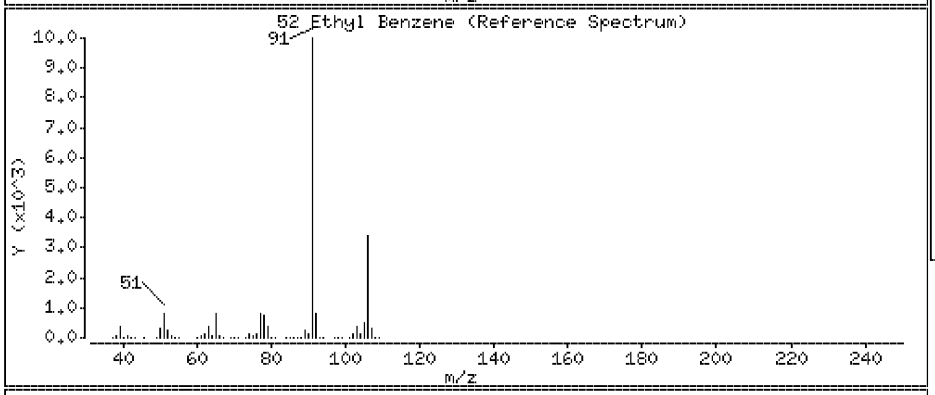
Concentration: 0.958 ppbv

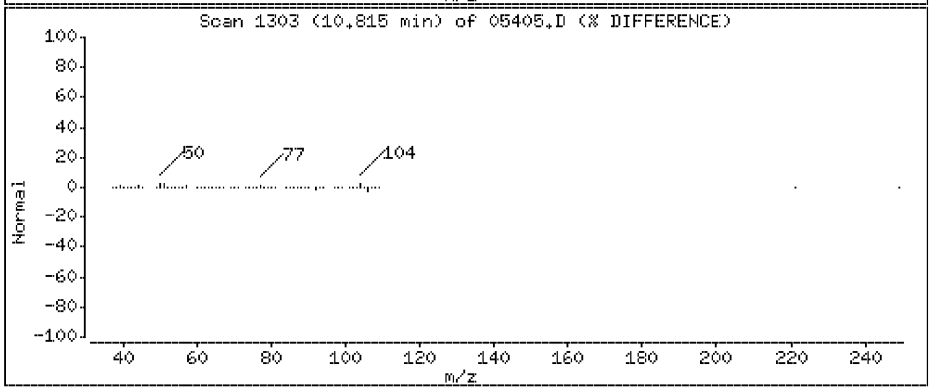












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Date : 23-FEB-2012 14:02

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Sample Info:

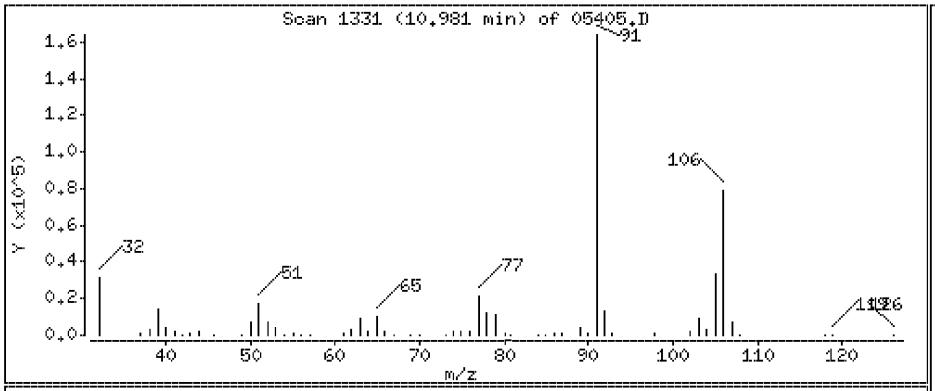
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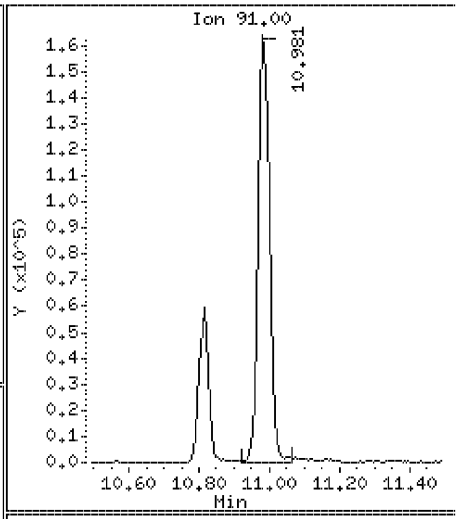
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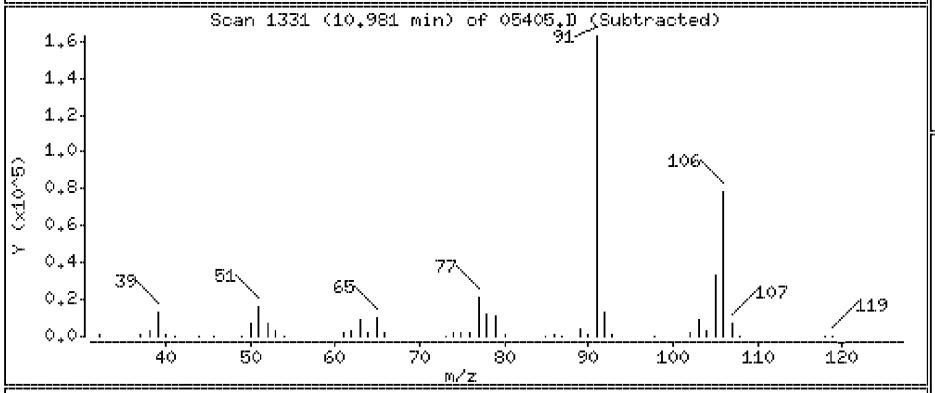
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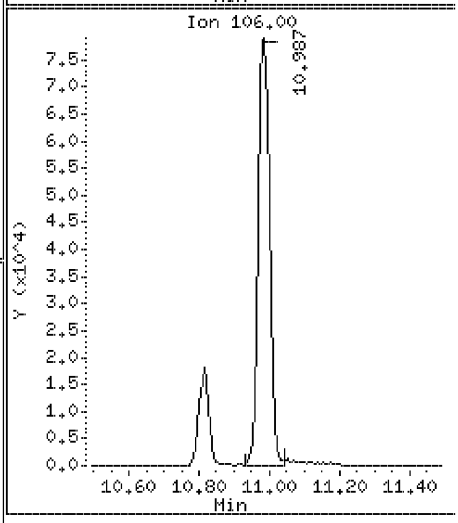
53 m&p-Xylene

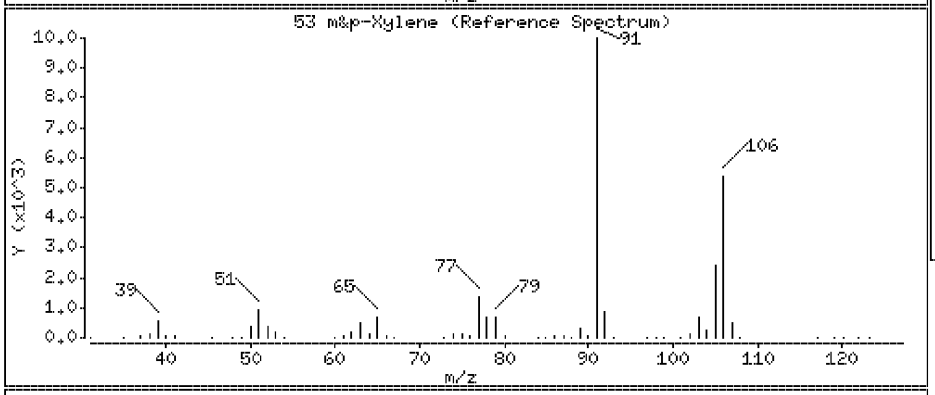
Concentration: 3.60 ppbv

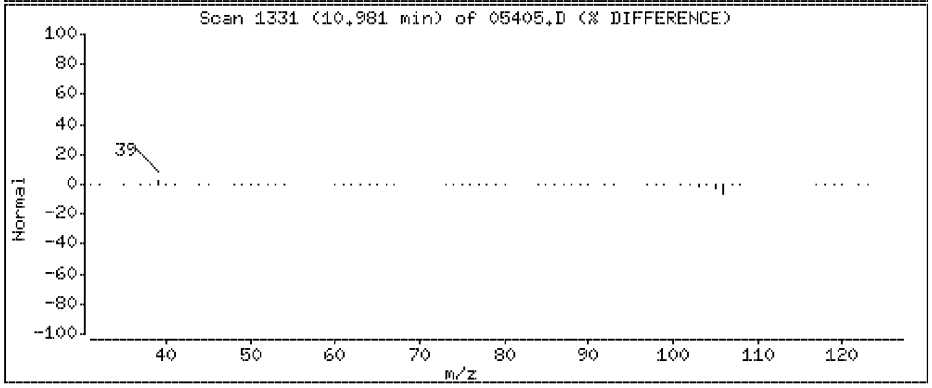












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

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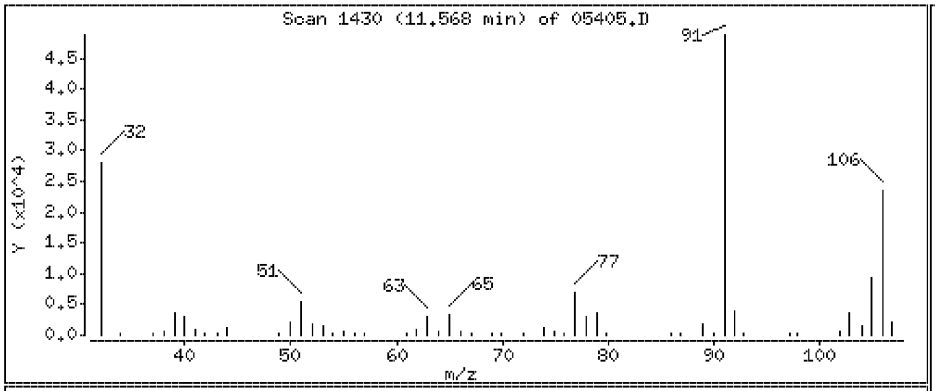
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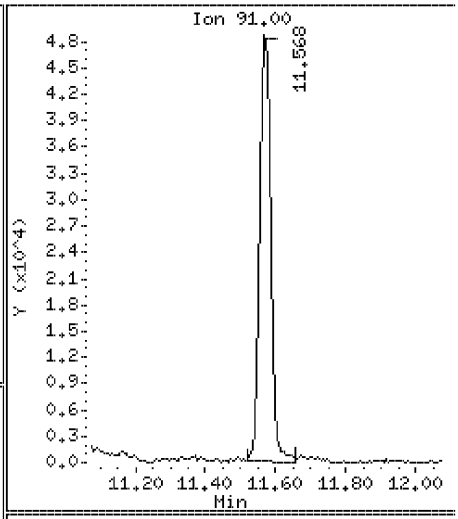
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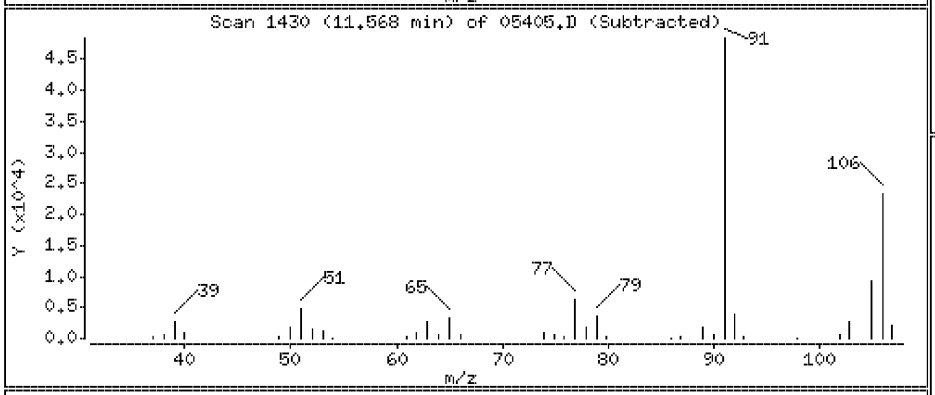
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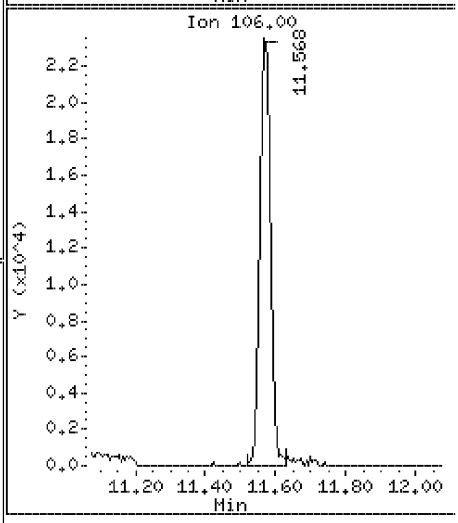
57 o-Xylene

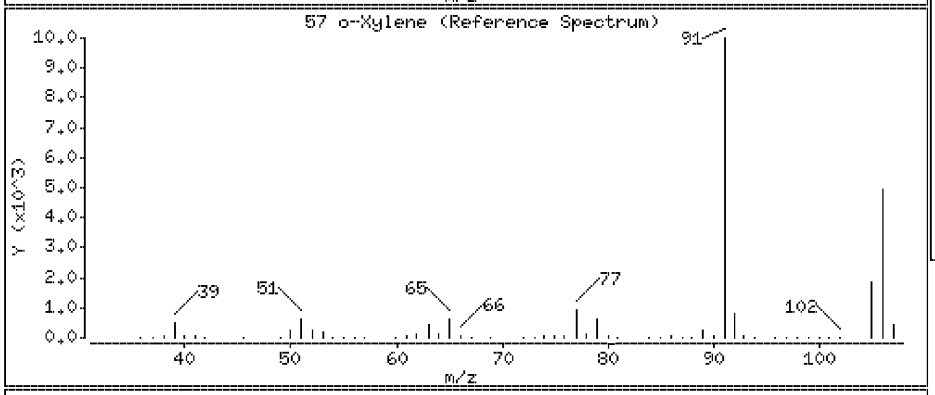
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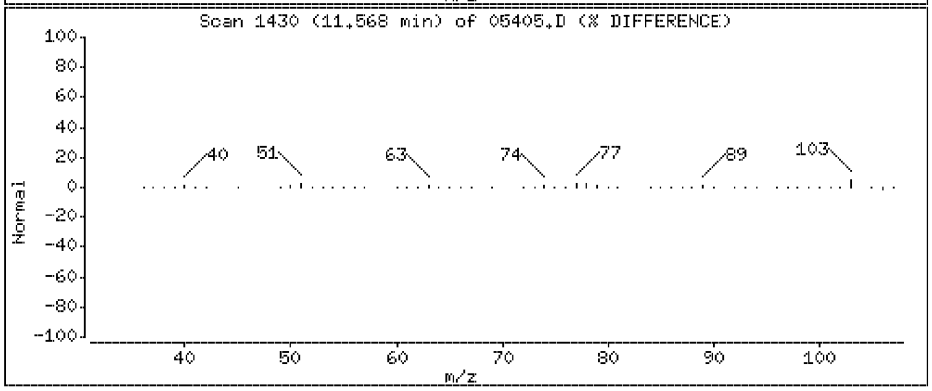












Data File: \\192.168.10.12\chem\10airB.i\022312.b/05405.D
Injection Date: 23-FEB-2012 14:02
Instrument: 10airB.i
Lab Sample ID: 5058707001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Report Date: 24-Feb-2012 08:11

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Client SDG: 022312.b
Lab Smp Id: 5058707001
Operator : CJR
Sample Date:
Sample Location:
Sample Point:
Sample Matrix: AIR
Date Received:
Analysis Type: VOA
Level: LOW
Inj Date: 23-FEB-2012 14:02

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.324	43.8	J
2.	106-98-9	1-Butene	3.704	31.9	NJ
3.	67-64-1	Acetone	4.250	46.6	NJ
4.	59222-86-5	Tetradecane, 2,2-dimethyl-	14.441	6.70	NJ
5.	17301-30-3	Undecane, 3,8-dimethyl-	14.613	30.3	NJ
6.	13151-34-3	Decane, 3-methyl-	14.904	10.6	NJ
7.		Unknown	15.070	53.0	J
8.		Unknown	15.367	28.0	J
9.	6117-97-1	Dodecane, 4-methyl-	15.622	16.7	NJ
10.	13287-21-3	Tridecane, 6-methyl-	15.723	10.1	NJ
11.		Unknown	15.972	4.52	J
12.	62238-00-0	Decane, 2,2,9-trimethyl-	16.103	3.00	NJ

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Report Date: 24-Feb-2012 08:11

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Lab Smp Id: 5058707001
Inj Date : 23-FEB-2012 14:02
Operator : CJR Inst ID: 10airB.i
Smp Info :
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 5
Dil Factor: 1.26000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.260	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
$ 21 Hexane-d14(S)	5.295	5409632	14.977
$ 66 1,4-dichlorobenzene-d4	14.269	16761589	10.952

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.324	12544194	34.7291953	43.8	0		0	21
1-Butene				CAS #: 106-98-9			
3.704	9140658	25.3063442	31.9	90	NIST05.L	170	21
Acetone				CAS #: 67-64-1			
4.250	13356957	36.9793673	46.6	86	NIST05.L	210	21
Tetradecane, 2,2-dimethyl-				CAS #: 59222-86-5			
14.441	8137828	5.31705286	6.70	78	NIST05.L	76112	66
Undecane, 3,8-dimethyl-				CAS #: 17301-30-3			
14.613	36782805	24.0329637	30.3	78	NIST05.L	46122	66

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D
Report Date: 24-Feb-2012 08:11

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Decane, 3-methyl-				CAS #: 13151-34-3			
14.904	12897390	8.42683192	10.6	72	NIST05.L	27243	66
Unknown				CAS #:			
15.070	64404211	42.0800990	53.0	0		0	66
Unknown				CAS #:			
15.367	33953458	22.1843393	28.0	0		0	66
Dodecane, 4-methyl-				CAS #: 6117-97-1			
15.622	20294362	13.2598278	16.7	72	NIST05.L	46098	66
Tridecane, 6-methyl-				CAS #: 13287-21-3			
15.723	12232333	7.99230034	10.1	72	NIST05.L	55987	66
Unknown				CAS #:			
15.972	5492206	3.58846985	4.52	0		0	66
Decane, 2,2,9-trimethyl-				CAS #: 62238-00-0			
16.103	3647972	2.38349326	3.00	72	NIST05.L	46156	66

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

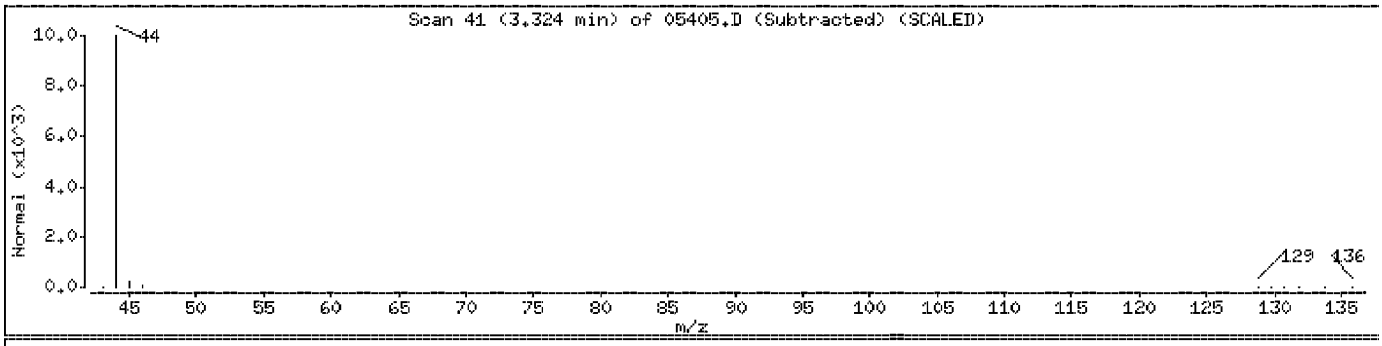
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

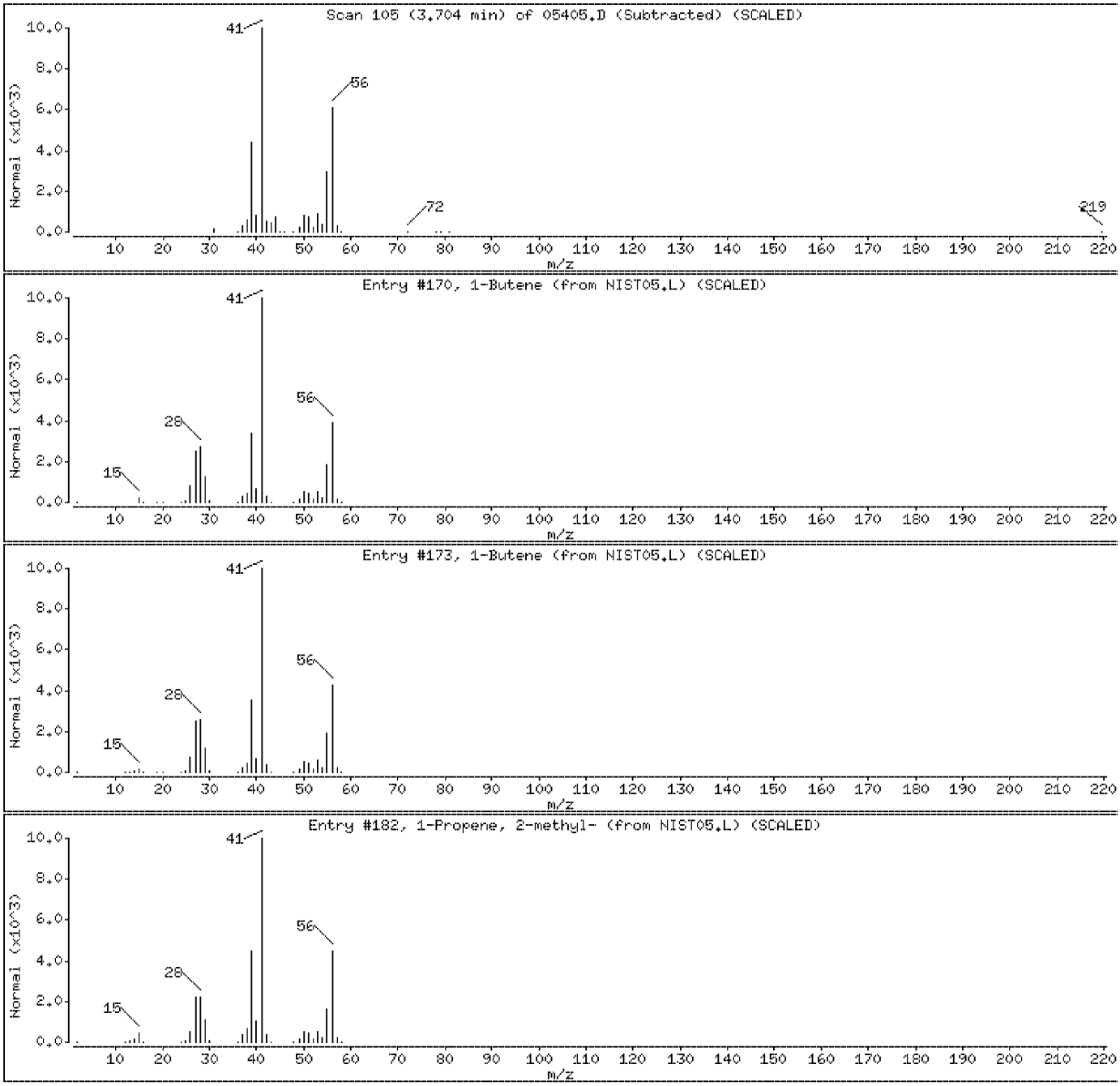
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Butene	106-98-9	NIST05.L	170	90	C4H8	56
1-Butene	106-98-9	NIST05.L	173	90	C4H8	56
1-Propene, 2-methyl-	115-11-7	NIST05.L	182	90	C4H8	56



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

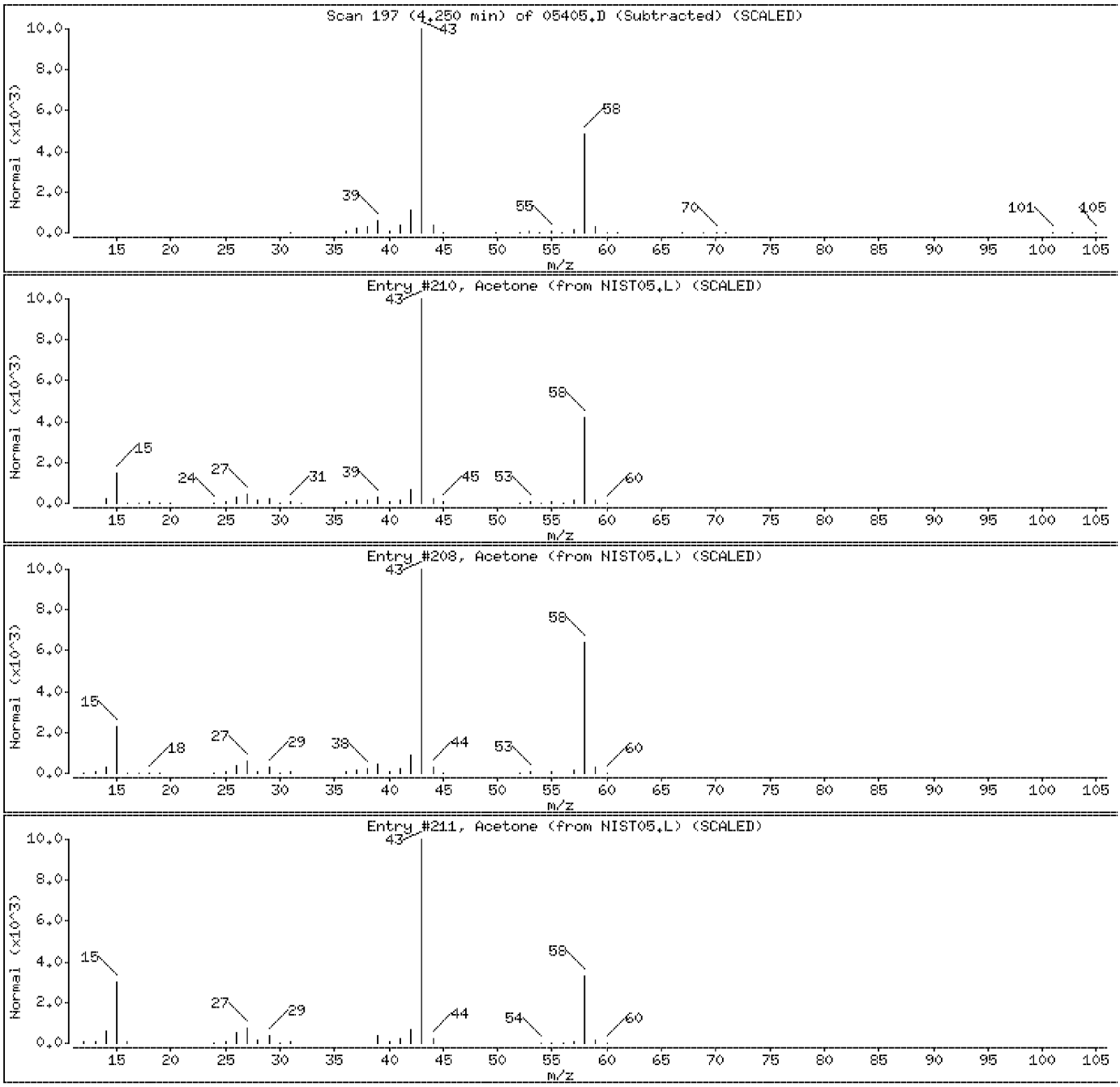
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetone	67-64-1	NIST05.L	210	86	C3H6O	58
Acetone	67-64-1	NIST05.L	208	78	C3H6O	58
Acetone	67-64-1	NIST05.L	211	78	C3H6O	58



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

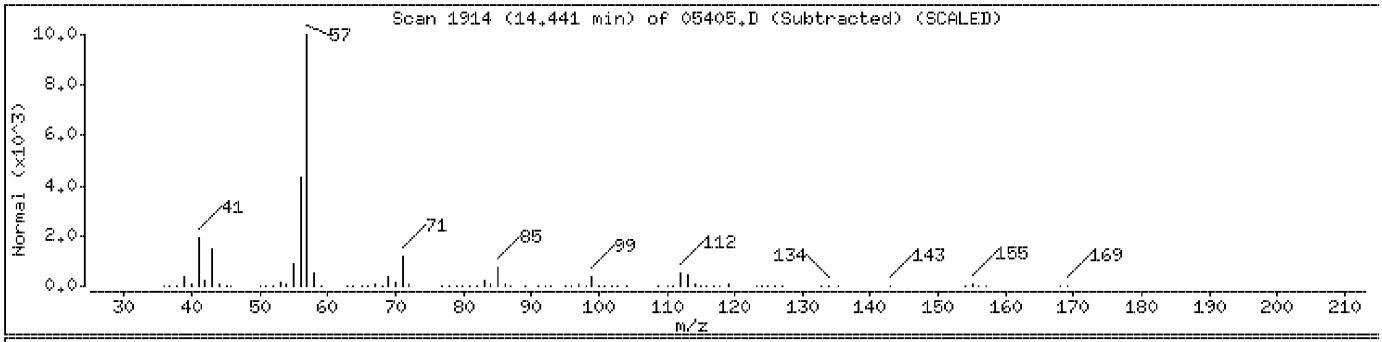
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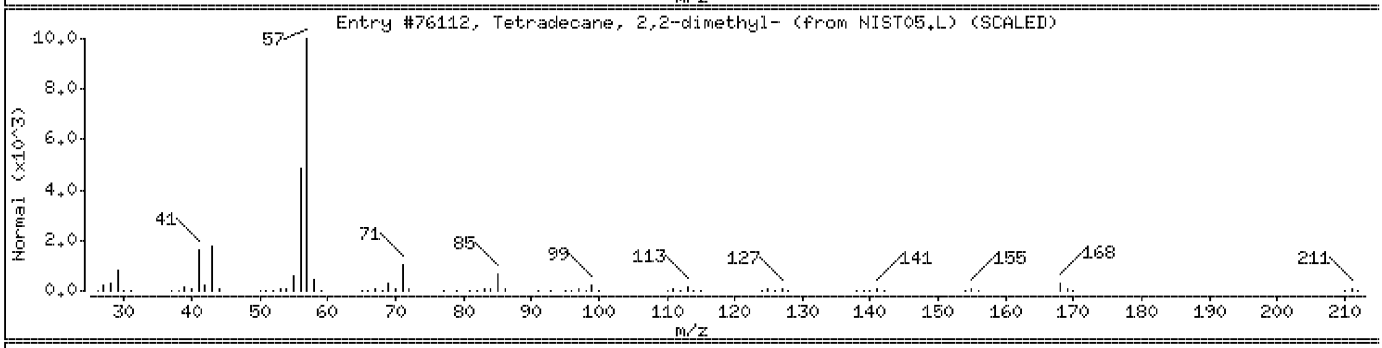
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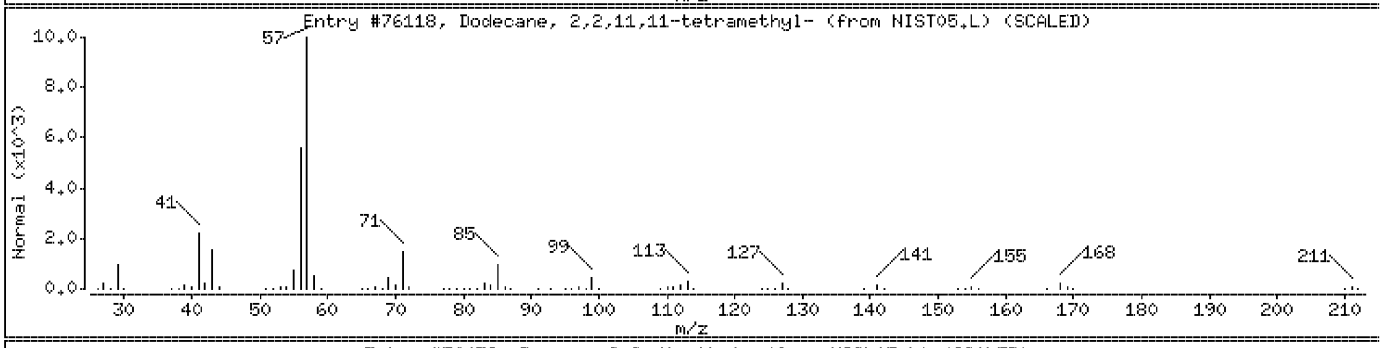
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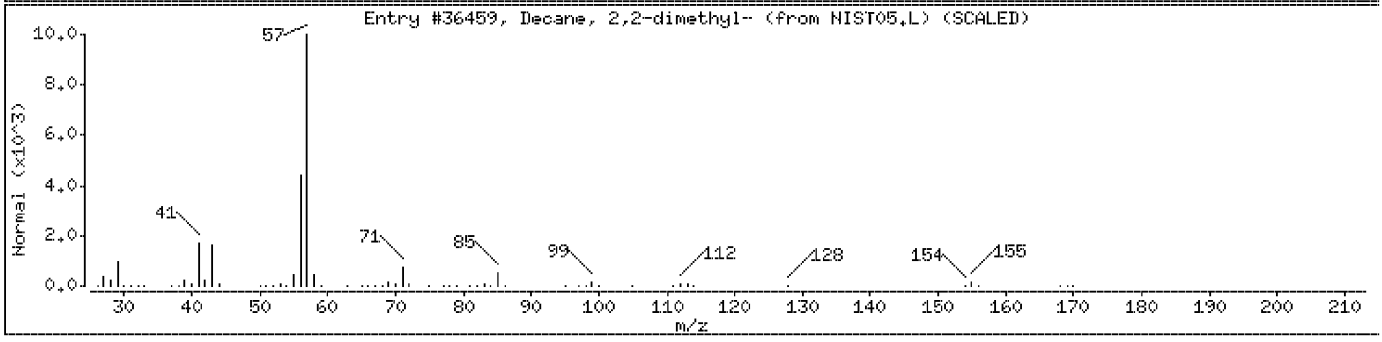
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane, 2,2-dimethyl-	59222-86-5	NIST05.L	76112	78	C16H34	226
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	NIST05.L	76118	78	C16H34	226
Decane, 2,2-dimethyl-	17302-37-3	NIST05.L	36459	72	C12H26	170









Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

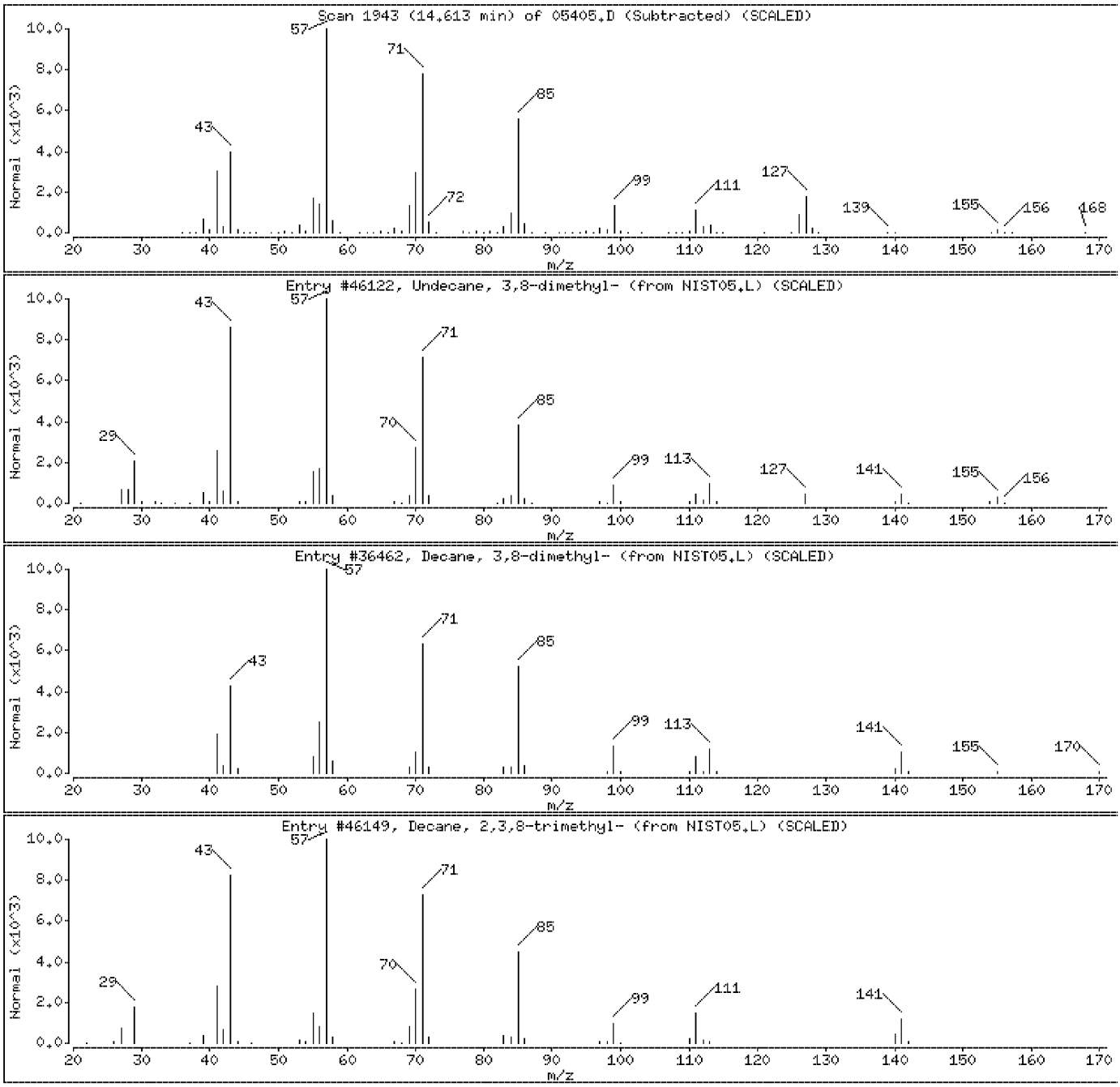
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane, 3,8-dimethyl-	17301-30-3	NIST05.L	46122	78	C13H28	184
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	72	C12H26	170
Decane, 2,3,8-trimethyl-	62238-14-6	NIST05.L	46149	72	C13H28	184



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

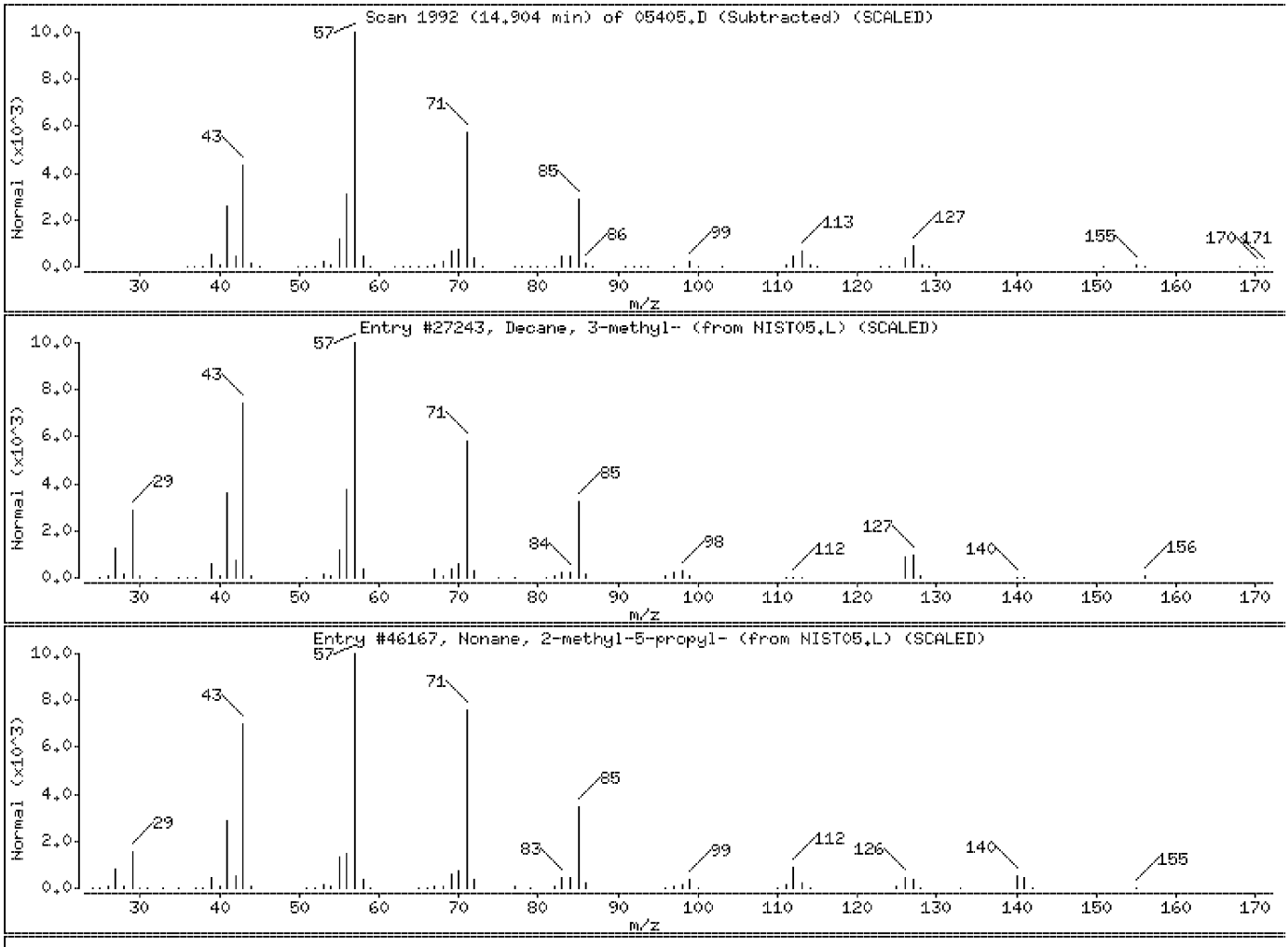
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 3-methyl-	13151-34-3	NIST05.L	27243	72	C11H24	156
Nonane, 2-methyl-5-propyl-	31081-17-1	NIST05.L	46167	72	C13H28	184



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

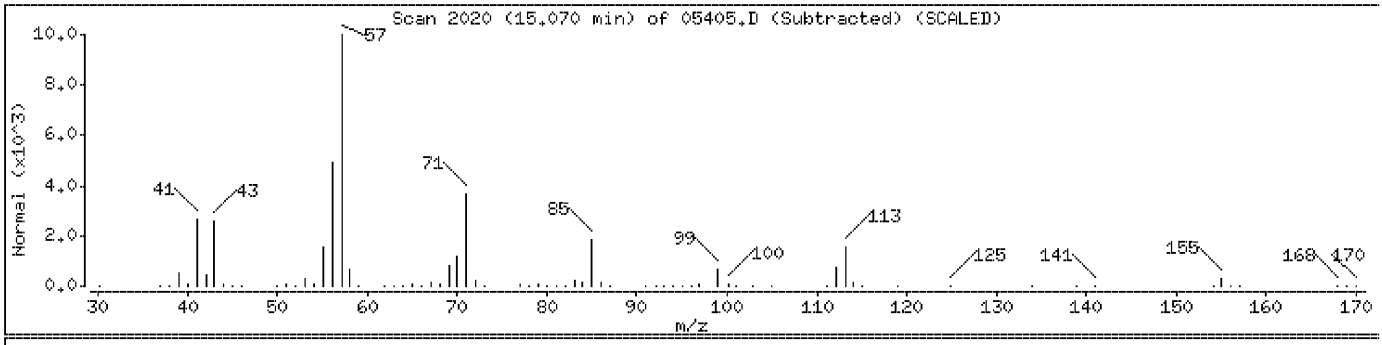
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

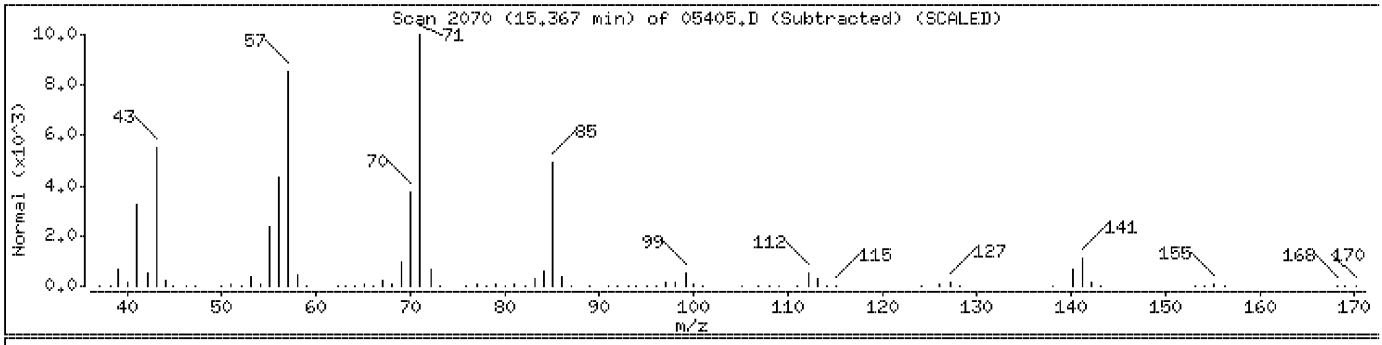
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

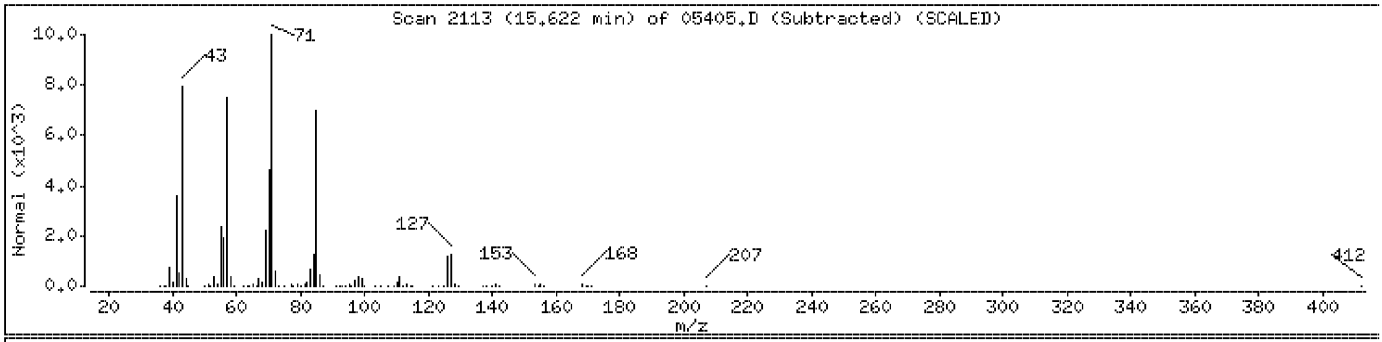
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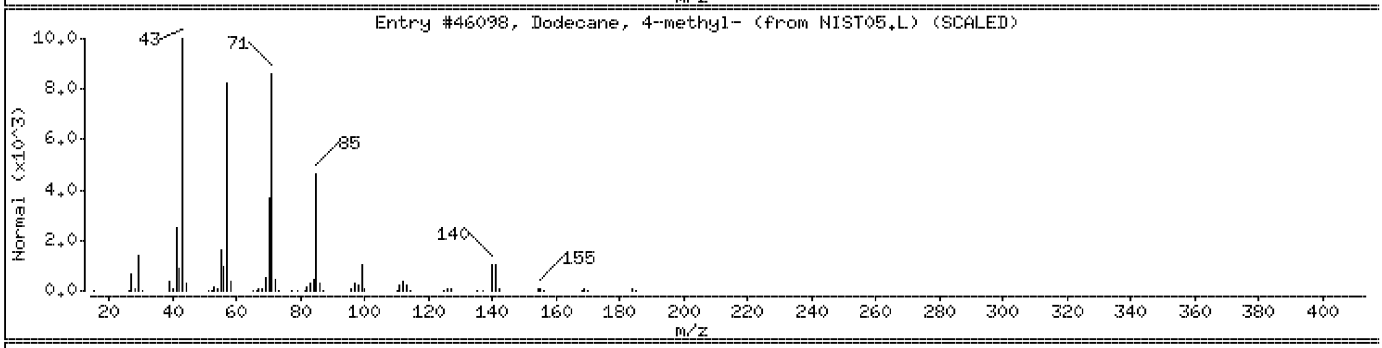
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane, 4-methyl-	6117-97-1	NIST05.L	46098	72	C13H28	184





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

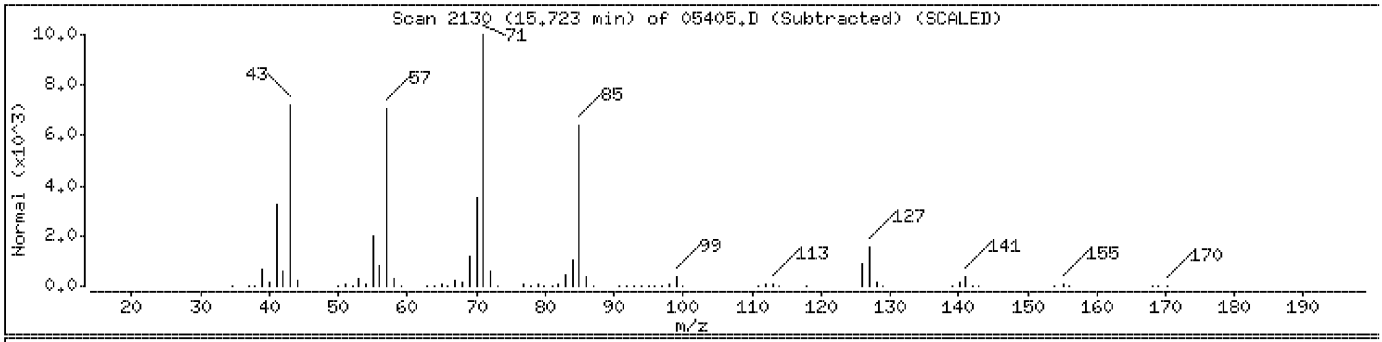
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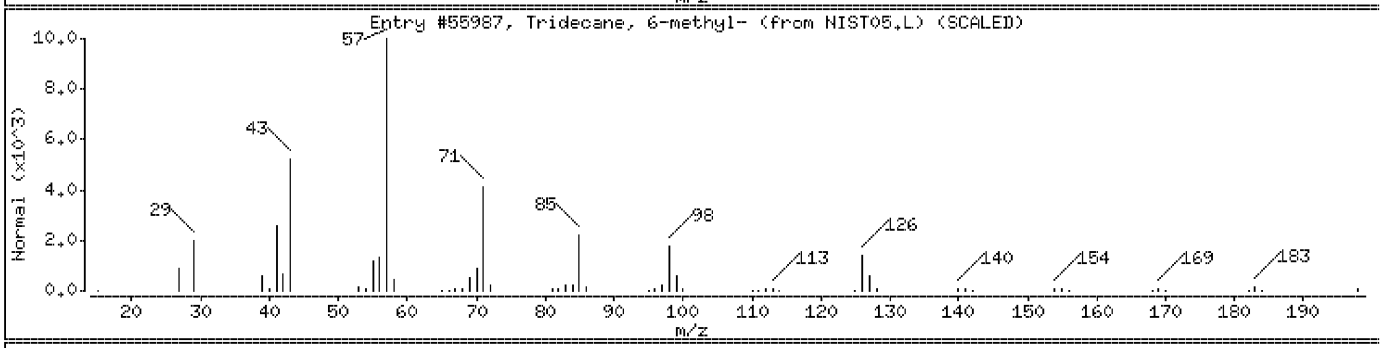
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane, 6-methyl-	13287-21-3	NIST05.L	55987	72	C14H30	198





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

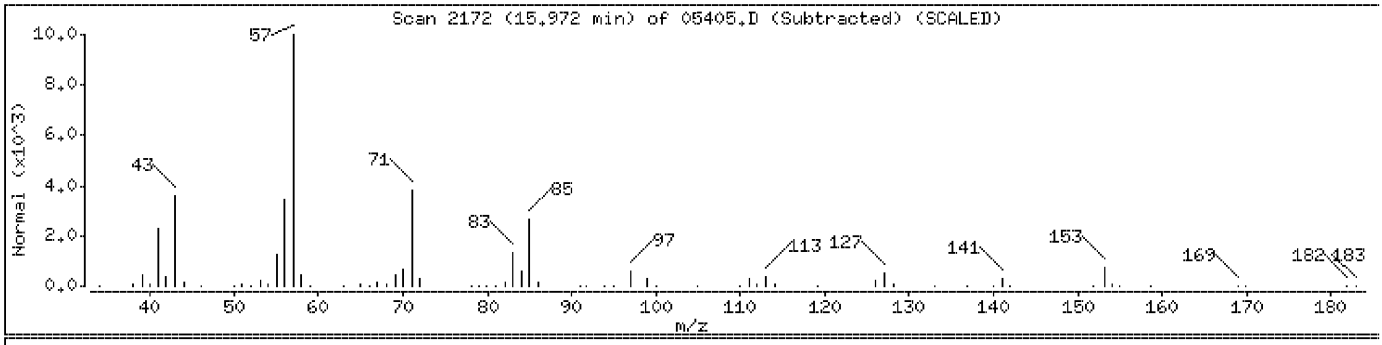
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05405.D

Date : 23-FEB-2012 14:02

Client ID:

Instrument: 10airB.i

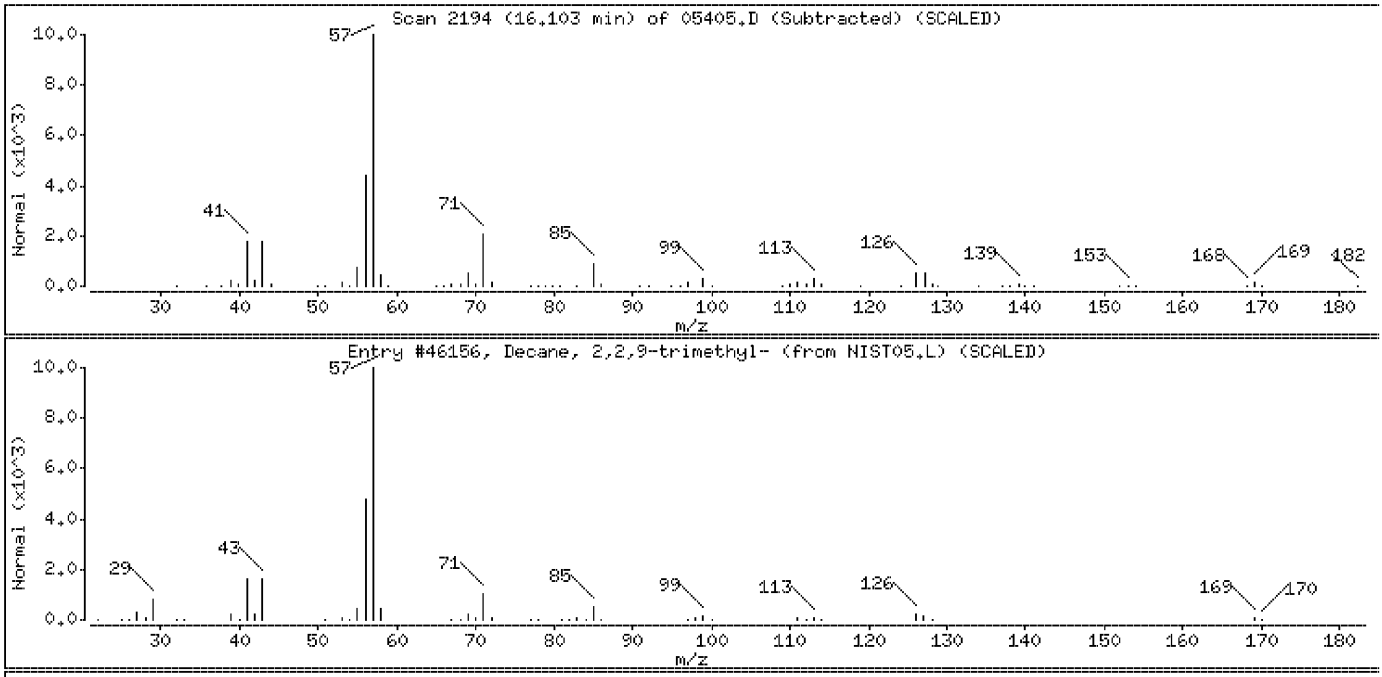
Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 2,2,9-trimethyl-	62238-00-0	NIST05.L	46156	72	C13H28	184



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Report Date: 24-Feb-2012 08:12

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Lab Smp Id: 5058707002
Inj Date : 23-FEB-2012 15:06
Operator : CJR Inst ID: 10airB.i
Smp Info : 5058707002, 1.39x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 7
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	Compound Not Detected.					
	8 Chloroethane	64	Compound Not Detected.					
	13 1,1-Dichloroethene	61	Compound Not Detected.					
	17 trans-1,2-dichloroethene	96	Compound Not Detected.					
	18 Methyl Tert Butyl Ether	73	Compound Not Detected.					
	20 1,1-Dichloroethane	63	Compound Not Detected.					
$	21 Hexane-d14(S)	66	5.300	5.301	(0.785)	569214	9.24951	9.25
	24 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	29 1,1,1-Trichloroethane	97	6.256	6.250	(0.926)	1672	0.01266	0.0176(a)
	30 1,2-Dichloroethane	62	Compound Not Detected.					
	31 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1468939	10.0000	
	38 Trichloroethene	130	Compound Not Detected.					
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1288836	10.9956	11.0
	44 Toluene	91	8.666	8.672	(1.283)	97926	0.48645	0.676
	49 Tetrachloroethene	166	9.675	9.681	(0.925)	2339	0.02117	0.0294(aQ)
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	763028	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.033)	135267	0.71197	0.990
	53 m&p-Xylene	91	10.980	10.993	(1.049)	449802	2.76985	3.85
	57 o-Xylene	91	11.568	11.574	(1.105)	134336	0.95430	1.33
	60 N-Propylbenzene	91	Compound Not Detected.					
$	66 1,4-dichlorobenzene-d4 (S)	150	14.269	14.275	(1.364)	485061	9.96249	9.96

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Report Date: 24-Feb-2012 08:12

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Report Date: 24-Feb-2012 08:12

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05407.D
Lab Smp Id: 5058707002
Analysis Type: VOA
Quant Type: ISTD
Operator: CJR
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

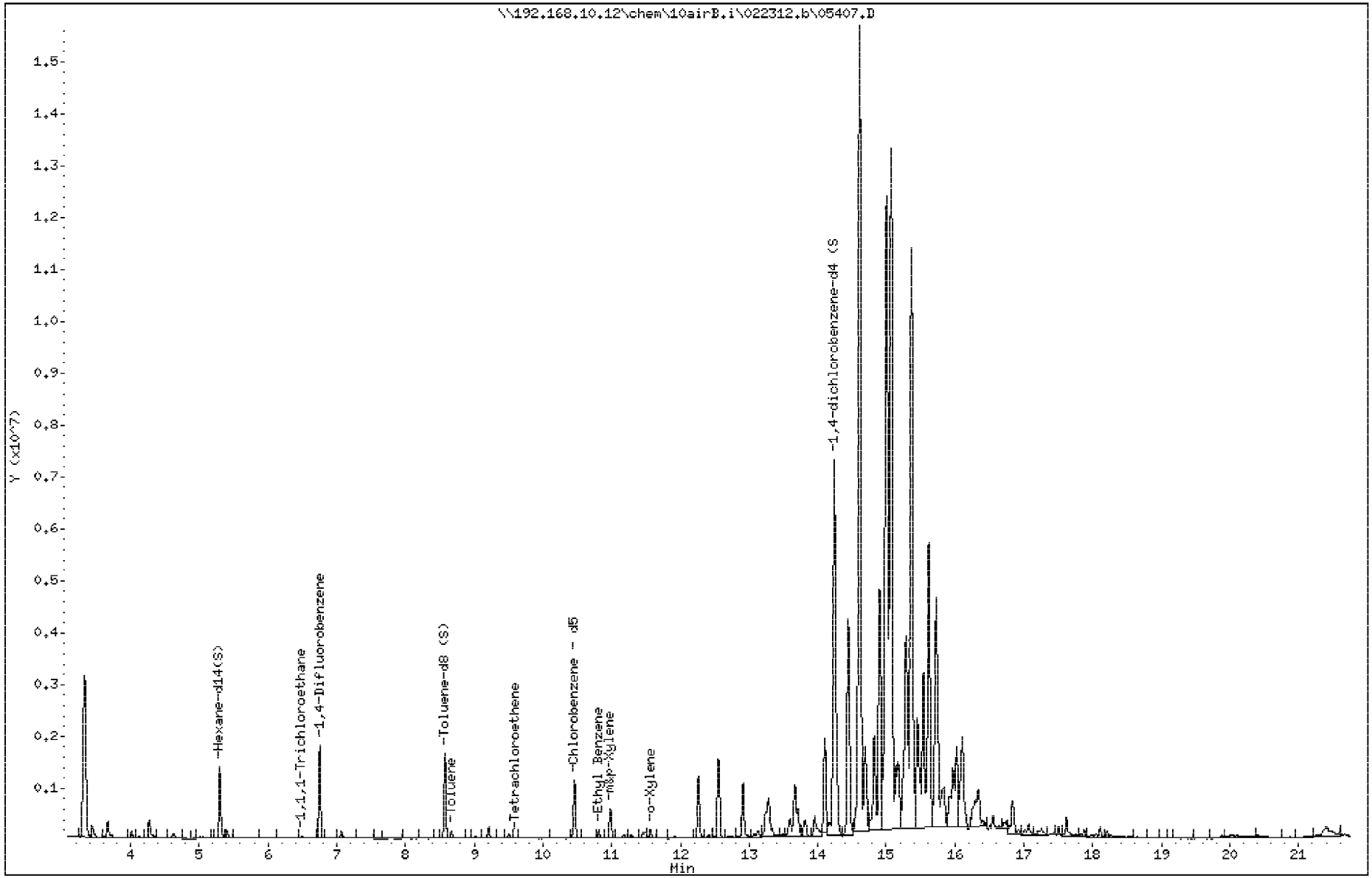
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1468939	-14.16
50 Chlorobenzene - d	907290	544374	1270206	763028	-15.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Date : 23-FEB-2012 15:06
Client ID:
Sample Info: 5058707002, 1.39x

Instrument: 10airB.i
Operator: CJR
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

Sample Info: 5058707002, 1.39x

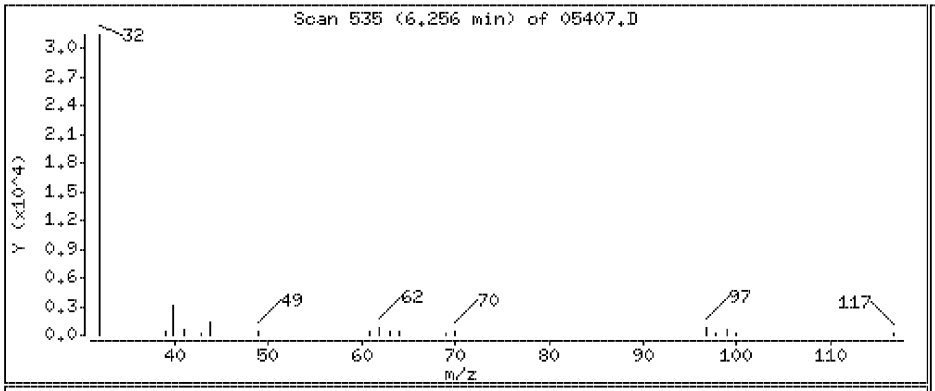
Operator: CJR

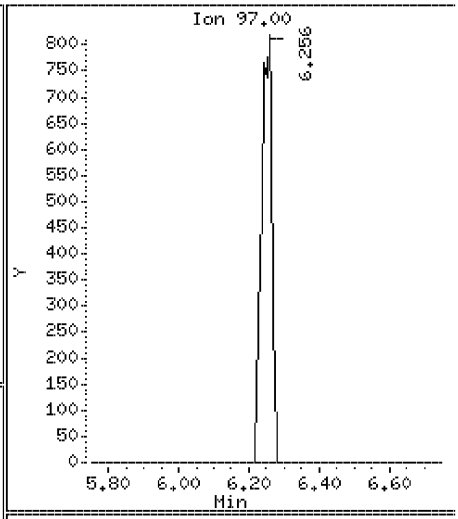
Column phase: J&W DB-5

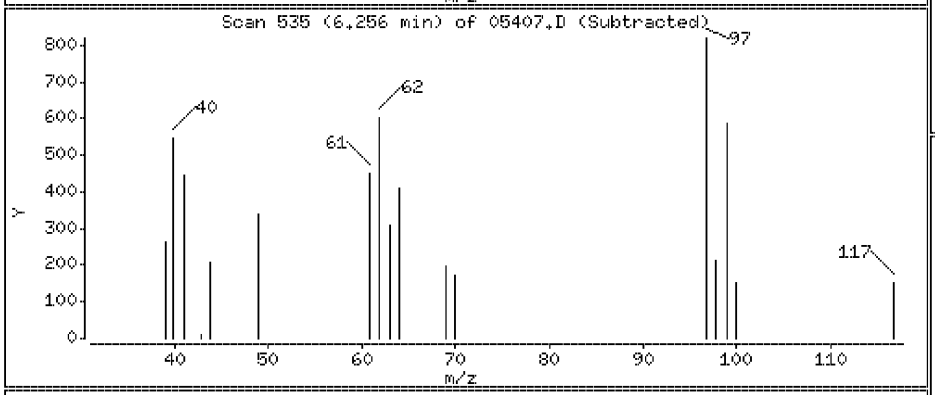
Column diameter: 0.32

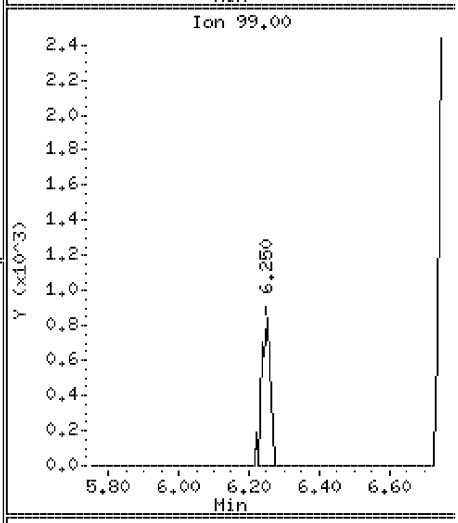
29 1,1,1-Trichloroethane

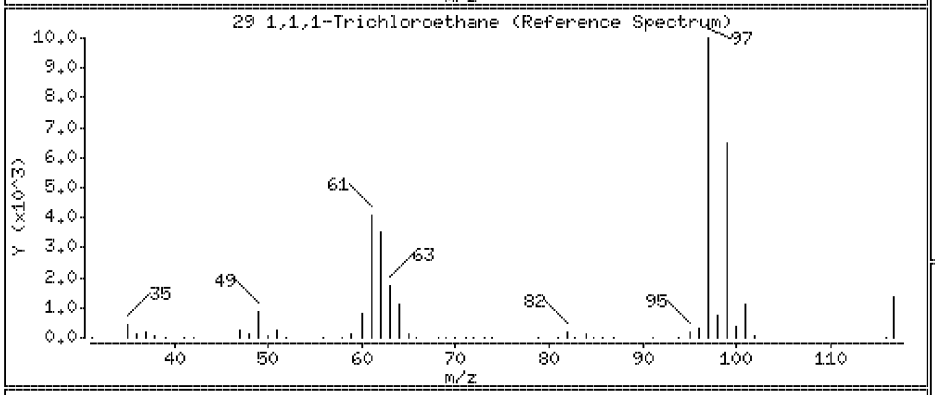
Concentration: 0.0176 ppbv

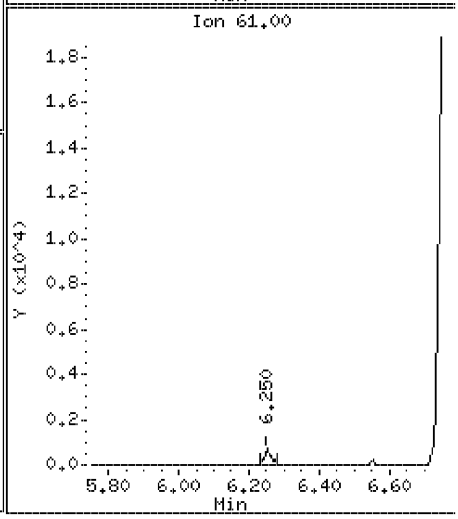


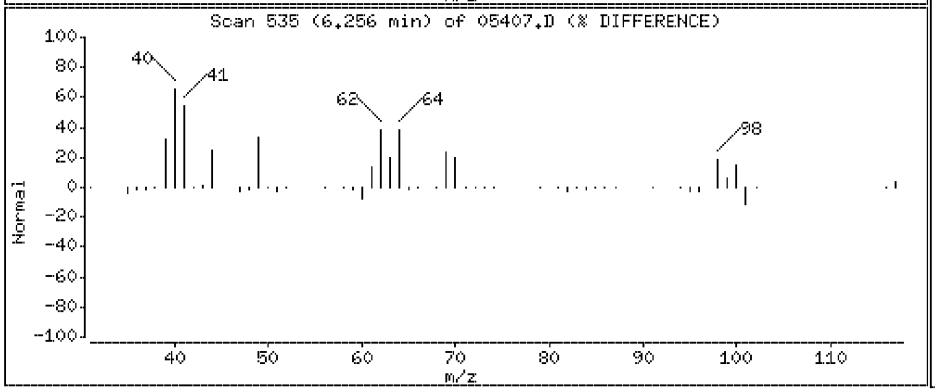












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

Sample Info: 5058707002, 1.39x

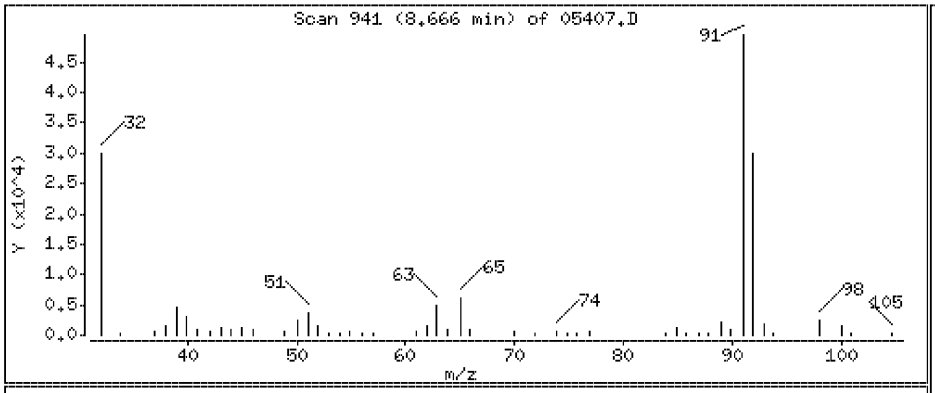
Operator: CJR

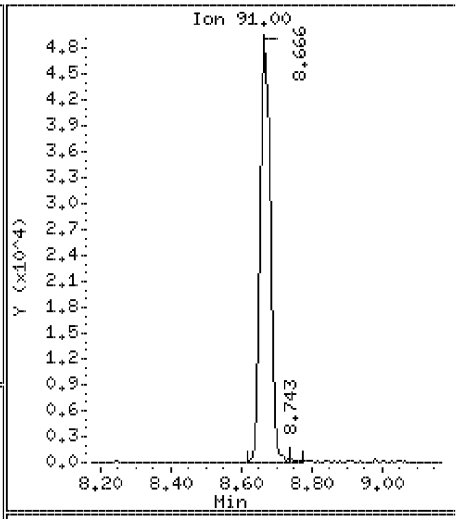
Column phase: J&W DB-5

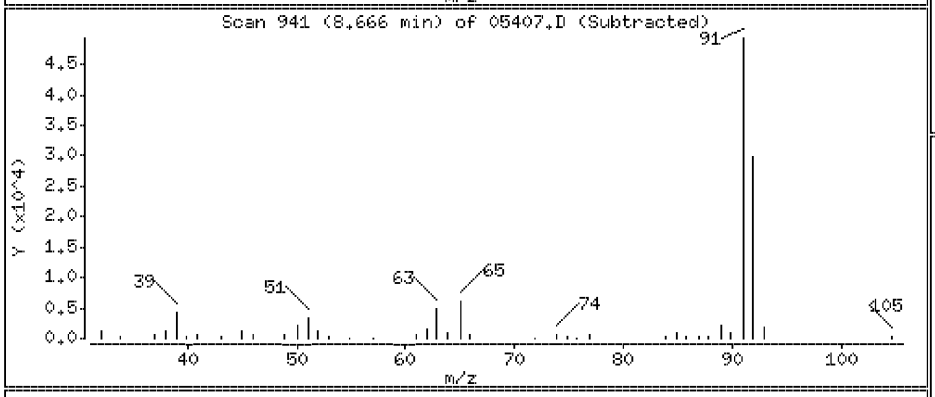
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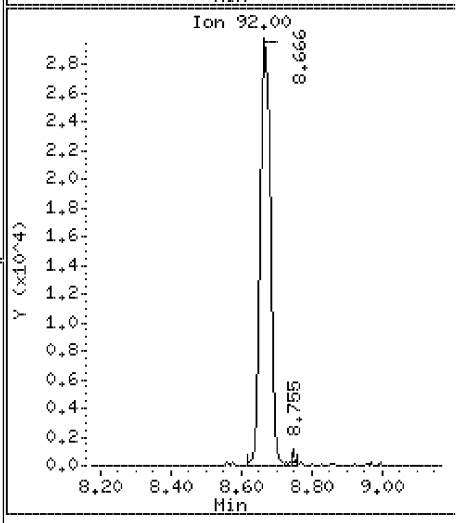
44 Toluene

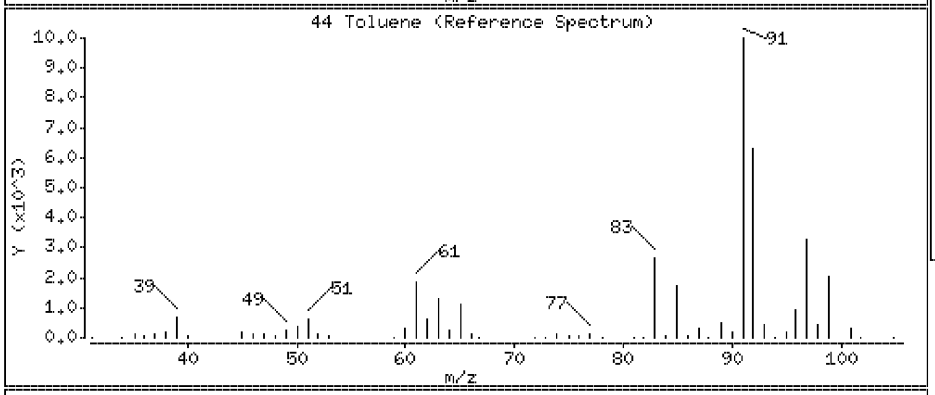
Concentration: 0.676 ppbv

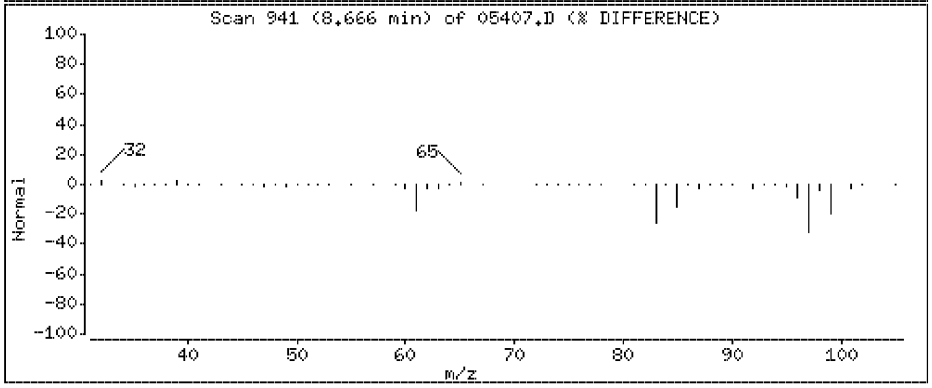












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

Sample Info: 5058707002, 1.39x

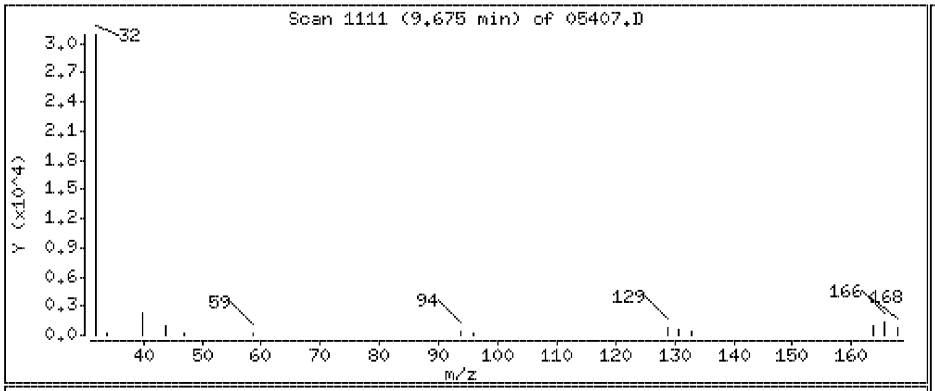
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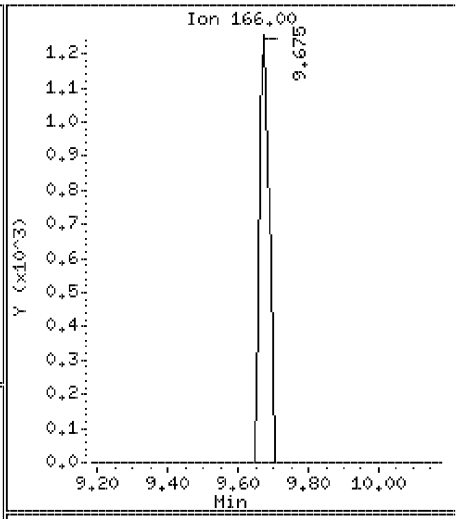
Column phase: J&W DB-5

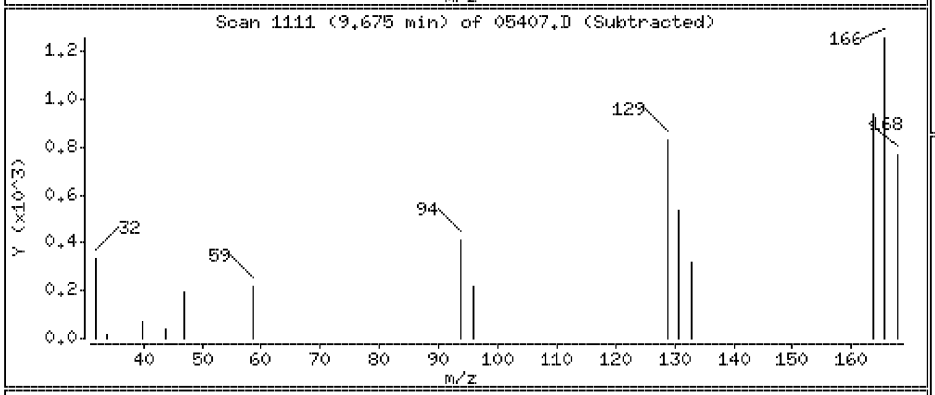
Column diameter: 0.32

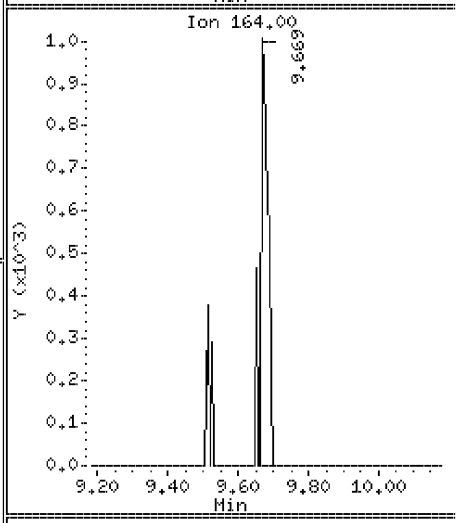
49 Tetrachloroethene

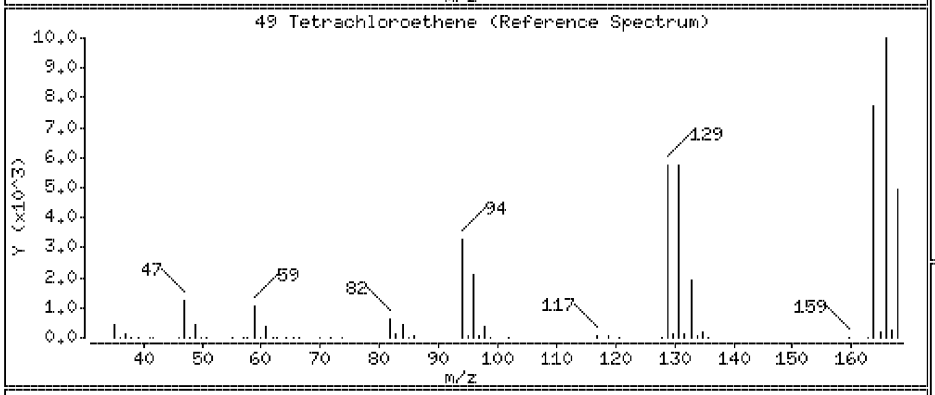
Concentration: 0.0294 ppbv

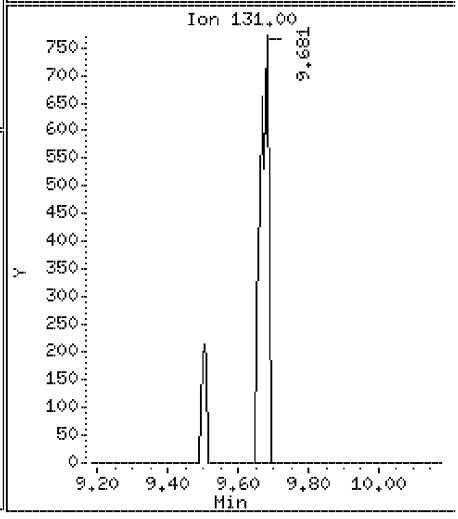


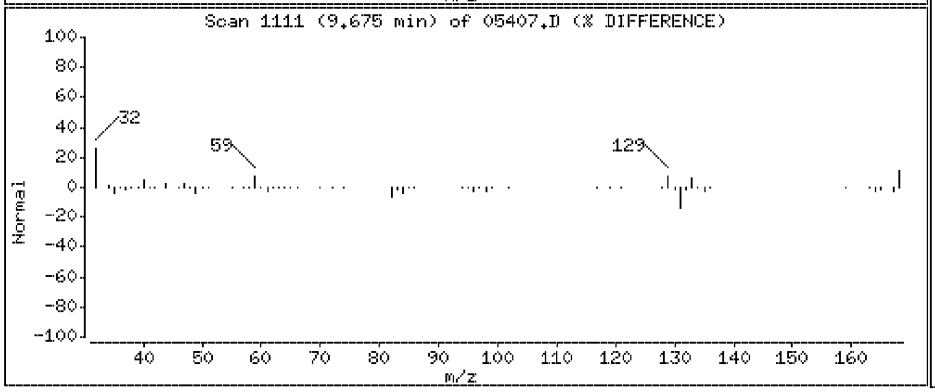












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

Sample Info: 5058707002, 1.39x

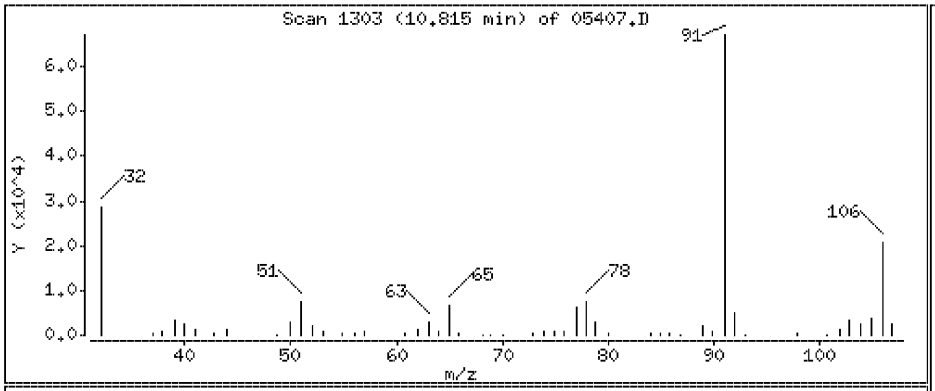
Operator: CJR

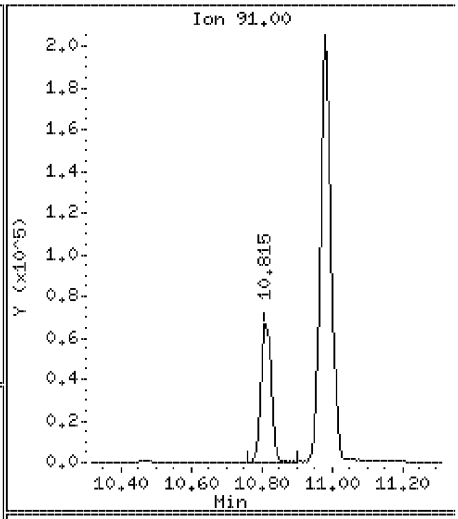
Column phase: J&W DB-5

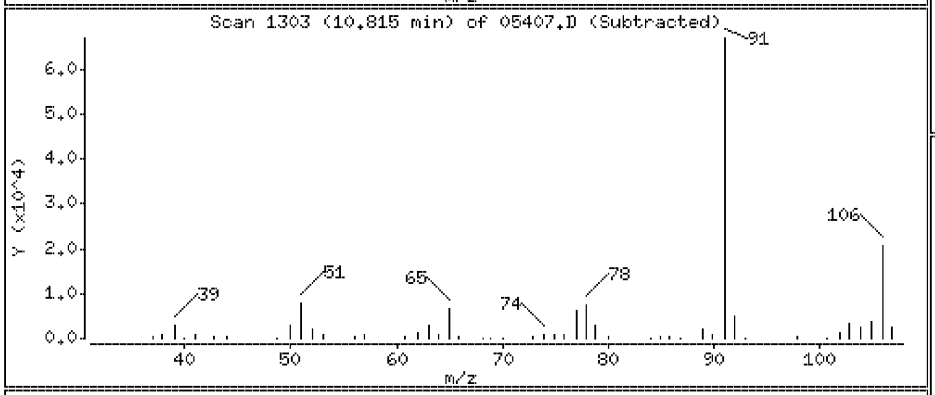
Column diameter: 0.32

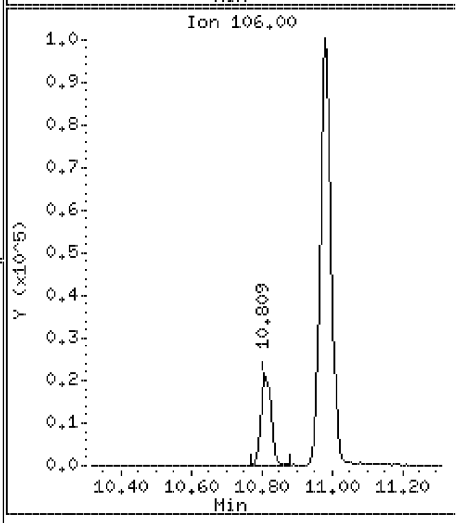
52 Ethyl Benzene

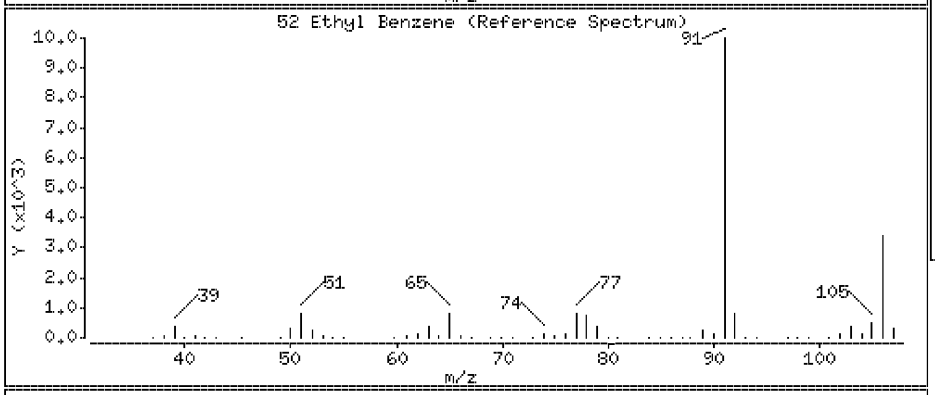
Concentration: 0.990 ppbv

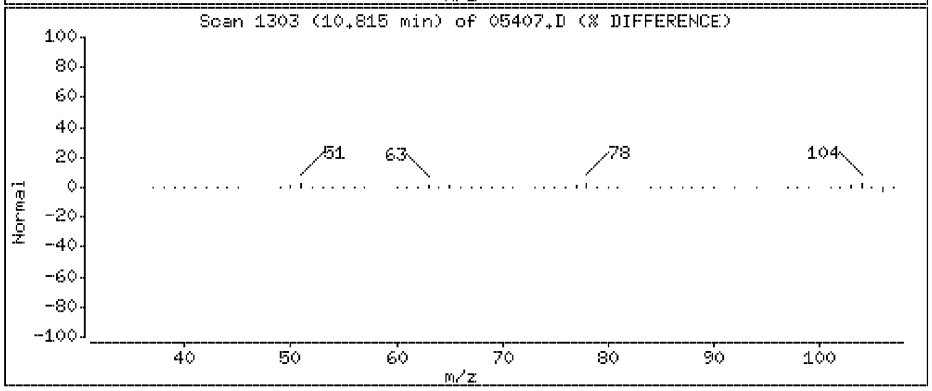












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

Sample Info: 5058707002, 1.39x

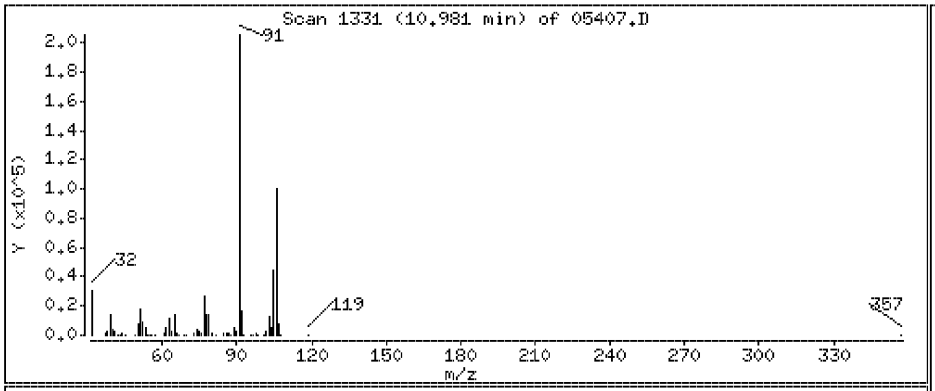
Operator: CJR

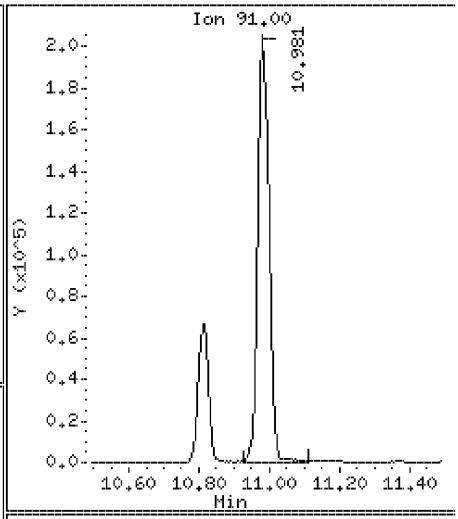
Column phase: J&W DB-5

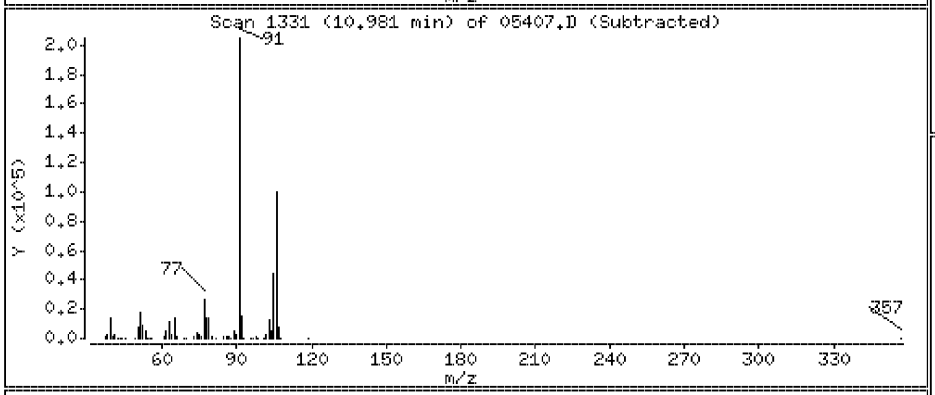
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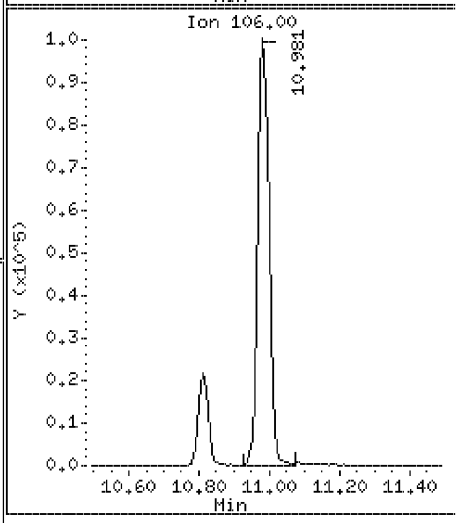
53 m&p-Xylene

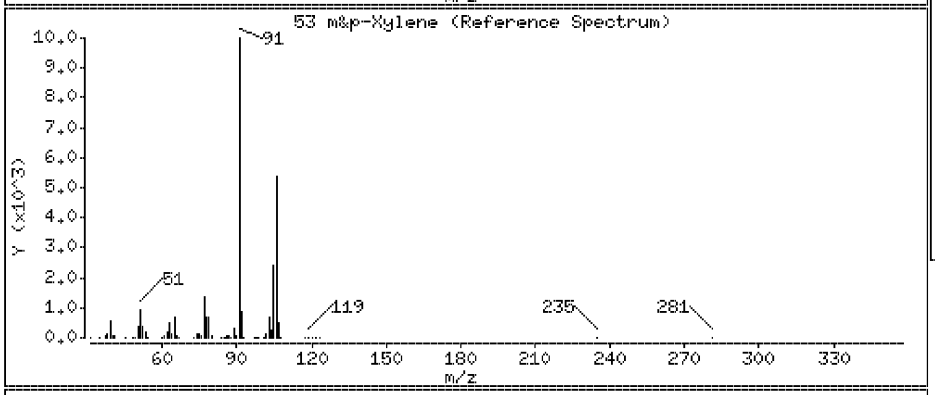
Concentration: 3.85 ppbv

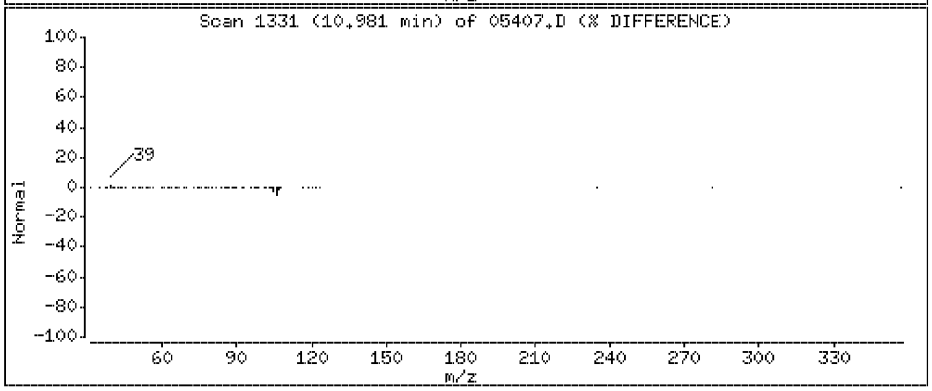












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

Sample Info: 5058707002, 1.39x

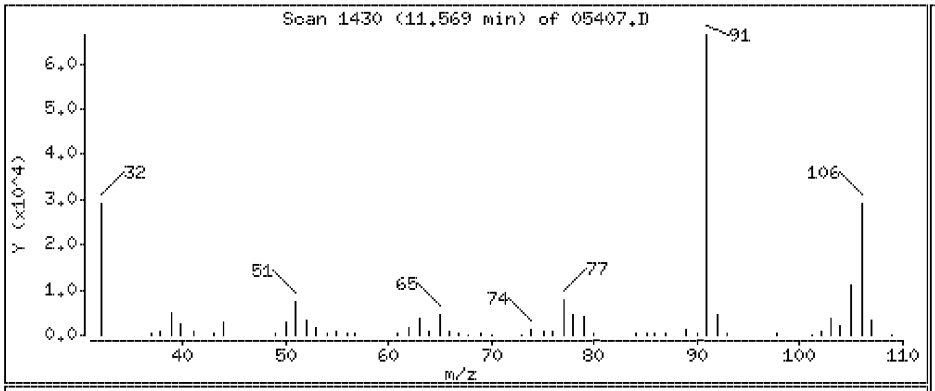
Operator: CJR

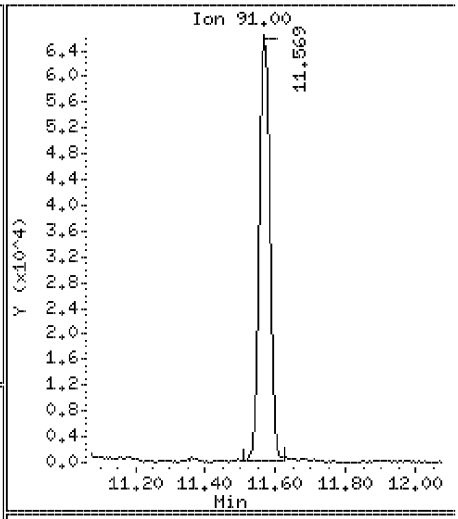
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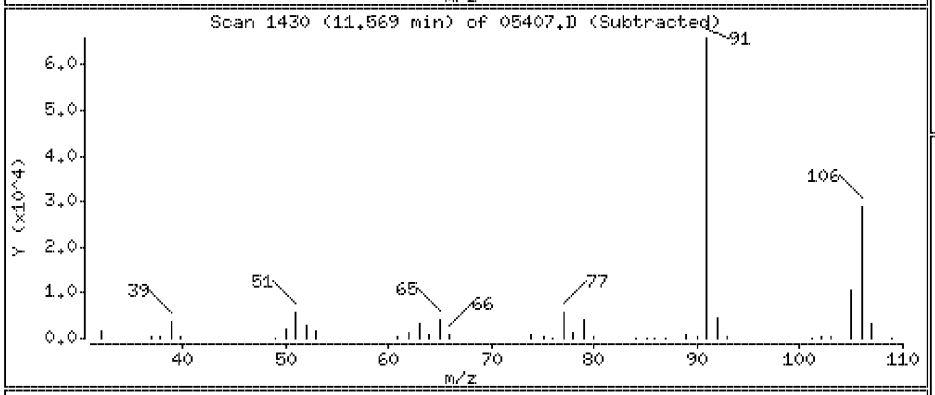
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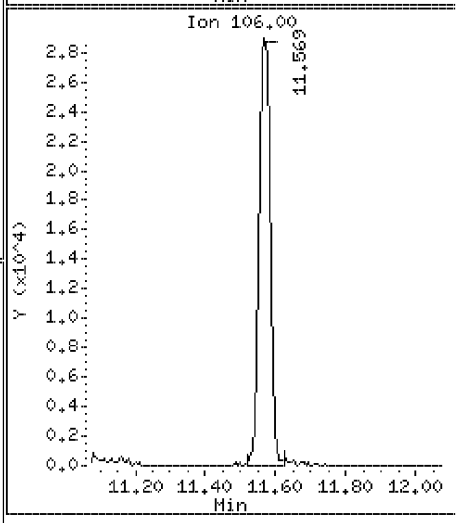
57 o-Xylene

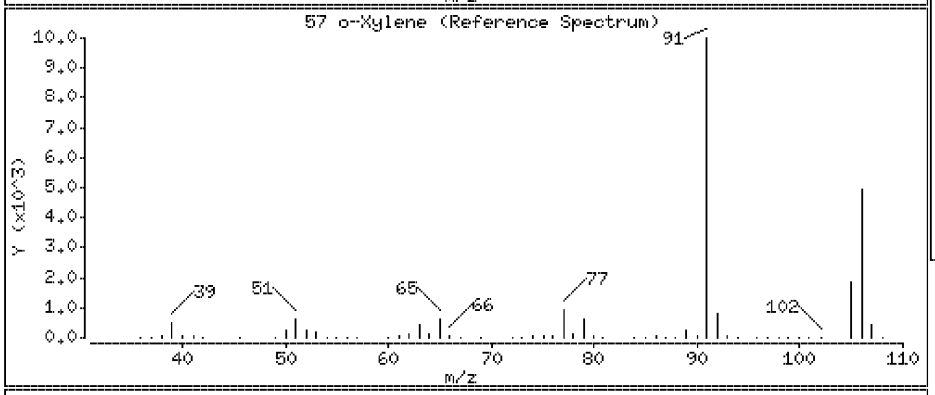
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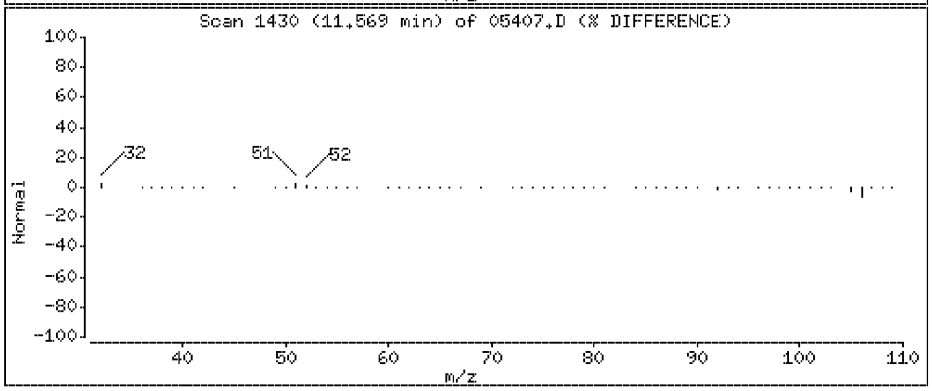












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Injection Date: 23-FEB-2012 15:06
Instrument: 10airB.i
Lab Sample ID: 5058707002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Report Date: 24-Feb-2012 08:12

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Client SDG: 022312.b
Lab Smp Id: 5058707002
Operator : CJR
Sample Date:
Sample Location:
Sample Point:
Sample Matrix: AIR
Date Received:
Analysis Type: VOA
Level: LOW
Inj Date: 23-FEB-2012 15:06

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.330	43.2	J
2.	1000309-20-	Sulfurous acid, 2-ethylhexy	13.664	2.93	NJ
3.	127204-12-0	Dodecane, 2,2,11,11-tetrame	14.097	2.72	NJ
4.	127204-12-0	Dodecane, 2,2,11,11-tetrame	14.441	6.84	NJ
5.		Unknown	14.613	30.4	J
6.	13151-34-3	Decane, 3-methyl-	14.898	10.5	NJ
7.		Unknown	15.070	52.0	J
8.		Unknown	15.367	28.7	J
9.		Unknown	15.622	18.1	J
10.	563-16-6	Hexane, 3,3-dimethyl-	15.723	11.3	NJ
11.	7098-21-7	Tritetracontane	15.973	5.40	NJ
12.	62237-97-2	Decane, 2,2,6-trimethyl-	16.103	3.84	NJ

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Report Date: 24-Feb-2012 08:12

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Lab Smp Id: 5058707002
Inj Date : 23-FEB-2012 15:06
Operator : CJR Inst ID: 10airB.i
Smp Info : 5058707002, 1.39x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 7
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
$ 21 Hexane-d14(S)	5.301	2664052	9.250
$ 66 1,4-dichlorobenzene-d4	14.269	20734340	9.962

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.330	8942109	31.0467245	43.2	0		0	21
Sulfurous acid, 2-ethylhexyl hexyl ester				CAS #: 1000309-20-2			
13.664	4387259	2.10800208	2.93	86	NIST05.L	110486	66
Dodecane, 2,2,11,11-tetramethyl-				CAS #: 127204-12-0			
14.097	4067209	1.95422340	2.72	78	NIST05.L	76118	66
Dodecane, 2,2,11,11-tetramethyl-				CAS #: 127204-12-0			
14.441	10237940	4.91915295	6.84	78	NIST05.L	76118	66
Unknown				CAS #:			
14.613	45507741	21.8656816	30.4	0		0	66

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D
Report Date: 24-Feb-2012 08:12

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Decane, 3-methyl-				CAS #: 13151-34-3			
14.898	15731020	7.55848278	10.5	72	NIST05.L	27243	66
Unknown				CAS #:			
15.070	77857099	37.4089880	52.0	0		0	66
Unknown				CAS #:			
15.367	43044497	20.6821358	28.7	0		0	66
Unknown				CAS #:			
15.622	27131779	13.0363503	18.1	0		0	66
Hexane, 3,3-dimethyl-				CAS #: 563-16-6			
15.723	16909599	8.12476979	11.3	72	NIST05.L	7446	66
Tritetracontane				CAS #: 7098-21-7			
15.973	8092524	3.88831766	5.40	72	NIST05.L	188549	66
Decane, 2,2,6-trimethyl-				CAS #: 62237-97-2			
16.103	5753896	2.76464719	3.84	78	NIST05.L	46154	66

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

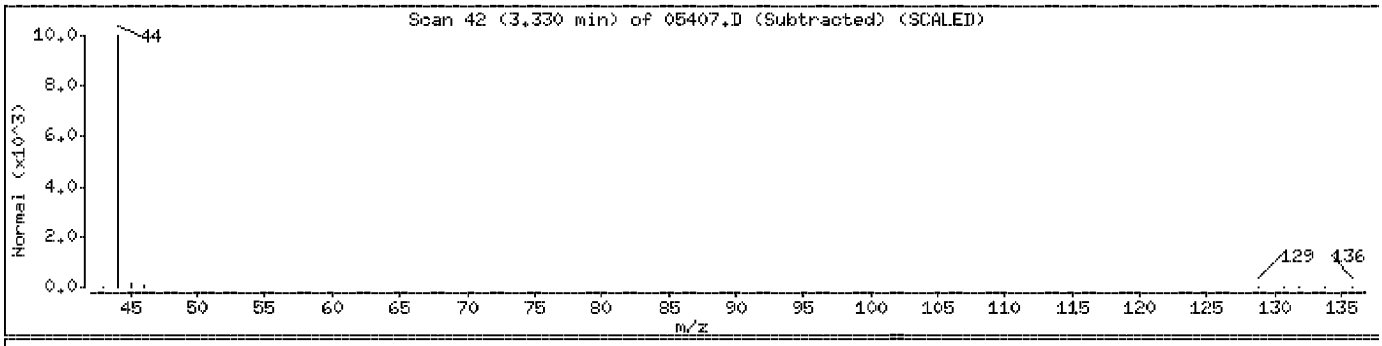
Sample Info: 5058707002, 1.39x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

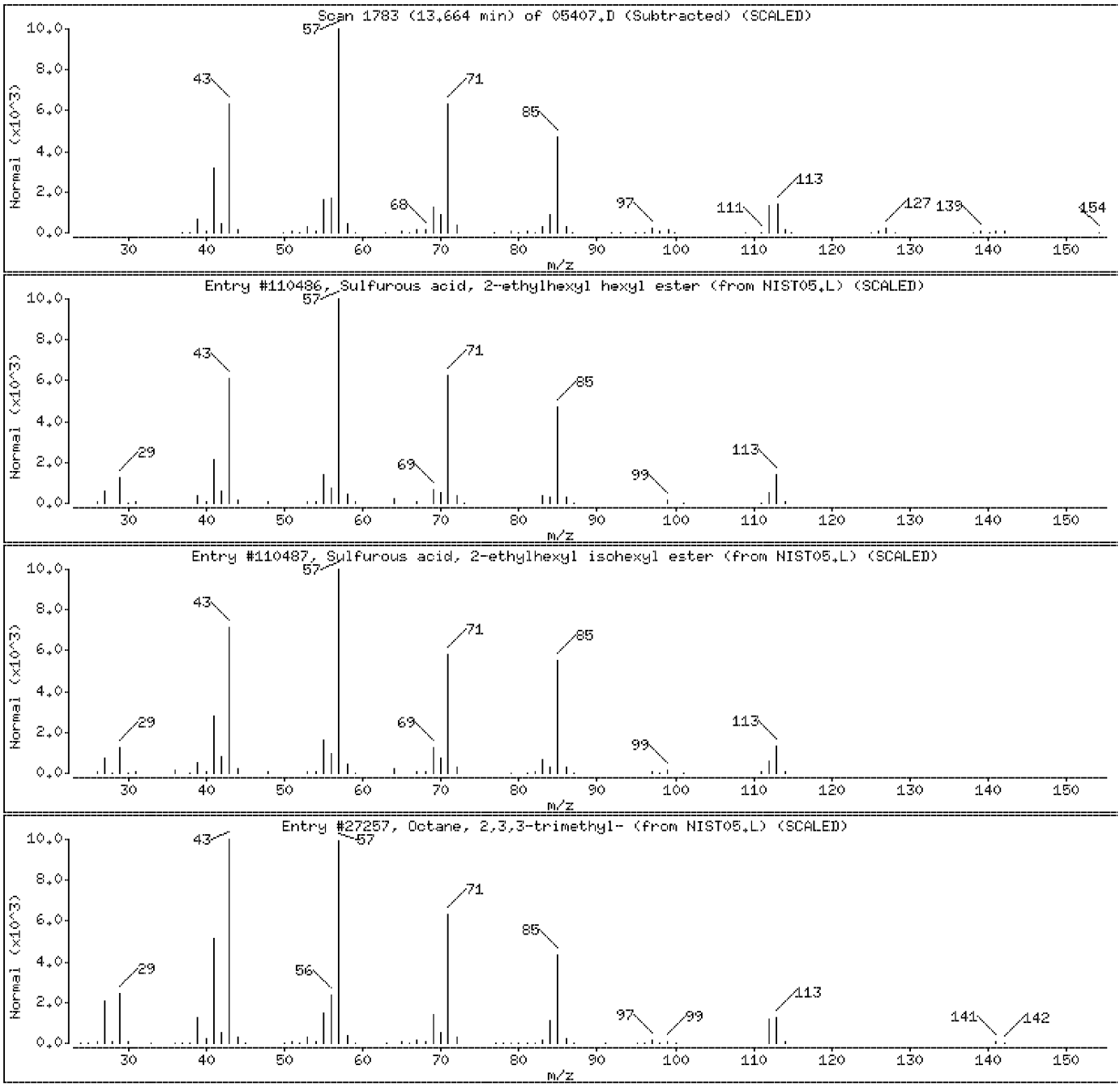
Sample Info: 5058707002, 1.39x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Sulfurous acid, 2-ethylhexyl hexyl ester	1000309-20-2	NIST05.L	110486	86	C14H30O3S	278
Sulfurous acid, 2-ethylhexyl isohexyl es	1000309-19-0	NIST05.L	110487	86	C14H30O3S	278
Octane, 2,3,3-trimethyl-	62016-30-2	NIST05.L	27257	78	C11H24	156



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

Client ID:

Instrument: 10airB.i

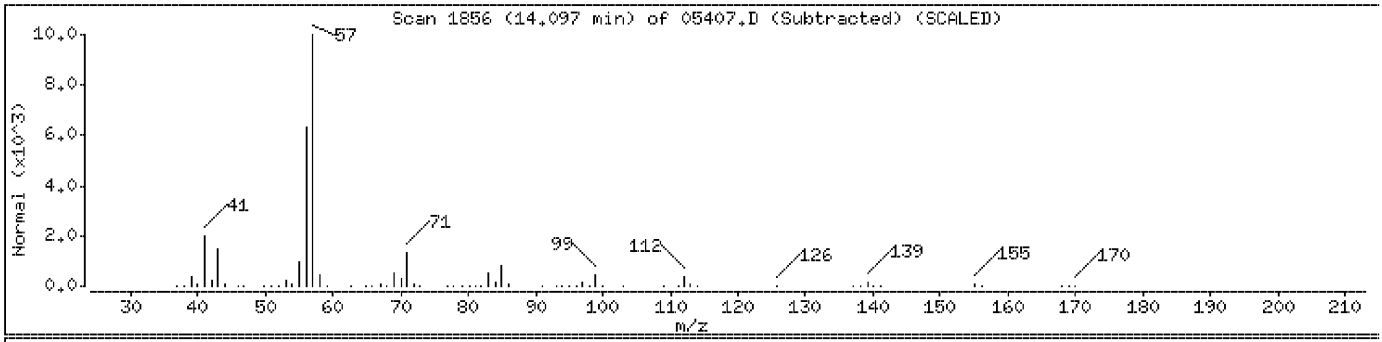
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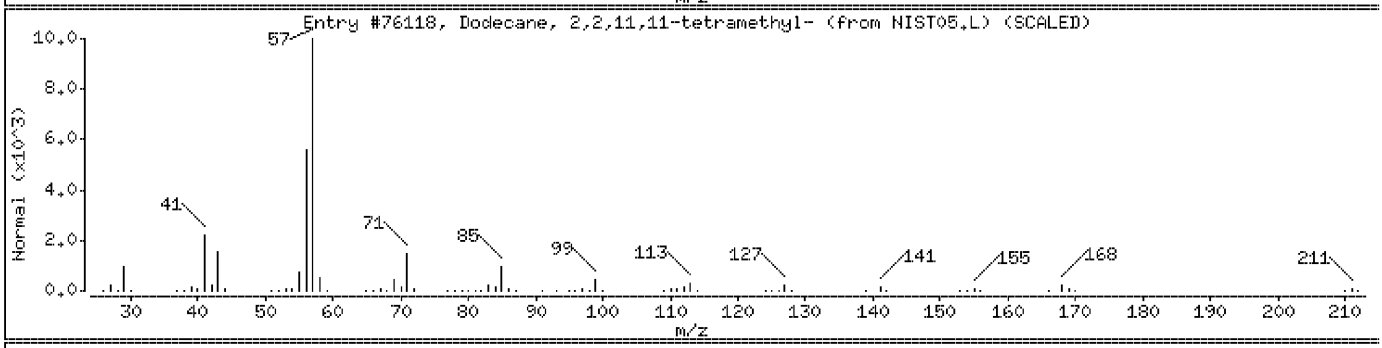
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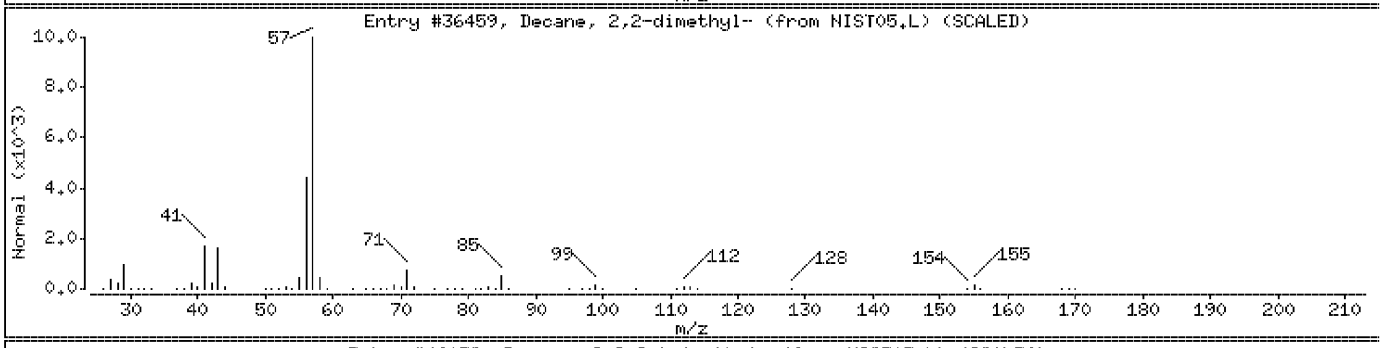
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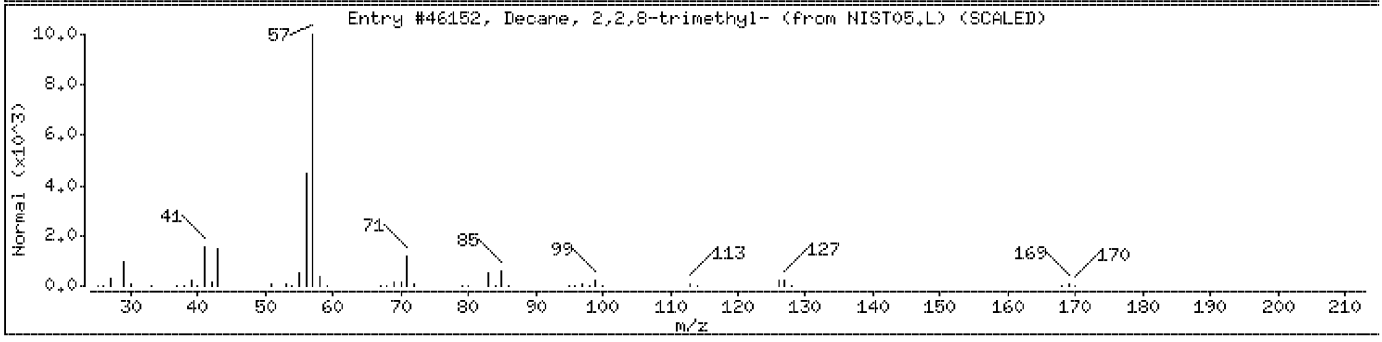
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Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	NIST05.L	76118	78	C16H34	226
Decane, 2,2-dimethyl-	17302-37-3	NIST05.L	36459	78	C12H26	170
Decane, 2,2,8-trimethyl-	62238-01-1	NIST05.L	46152	78	C13H28	184









Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

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Instrument: 10airB.i

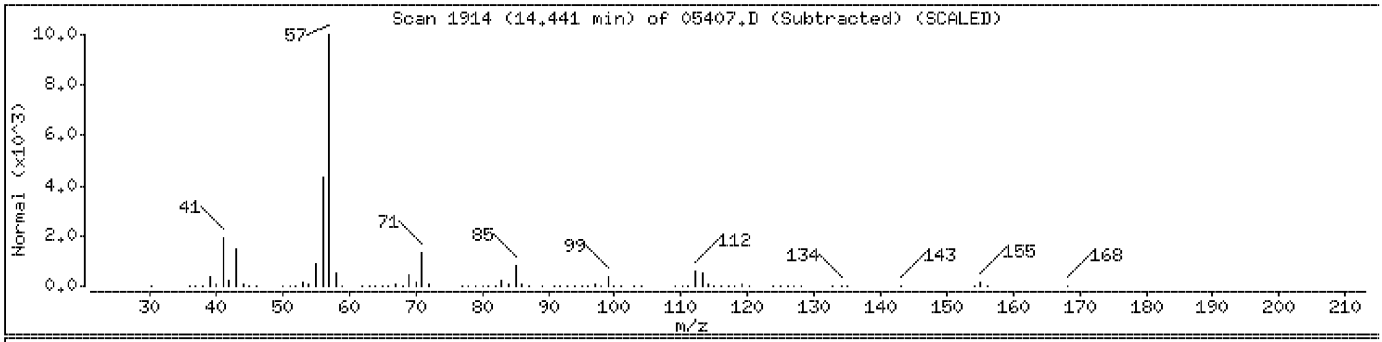
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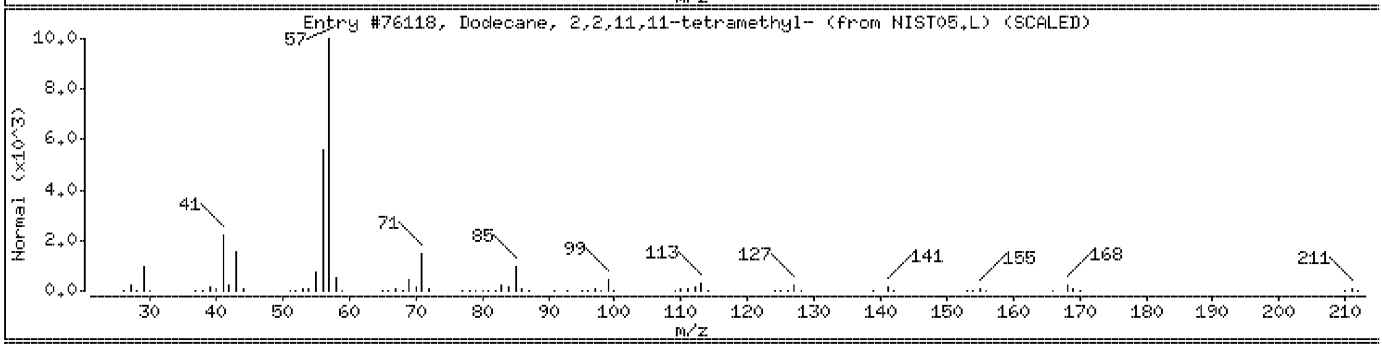
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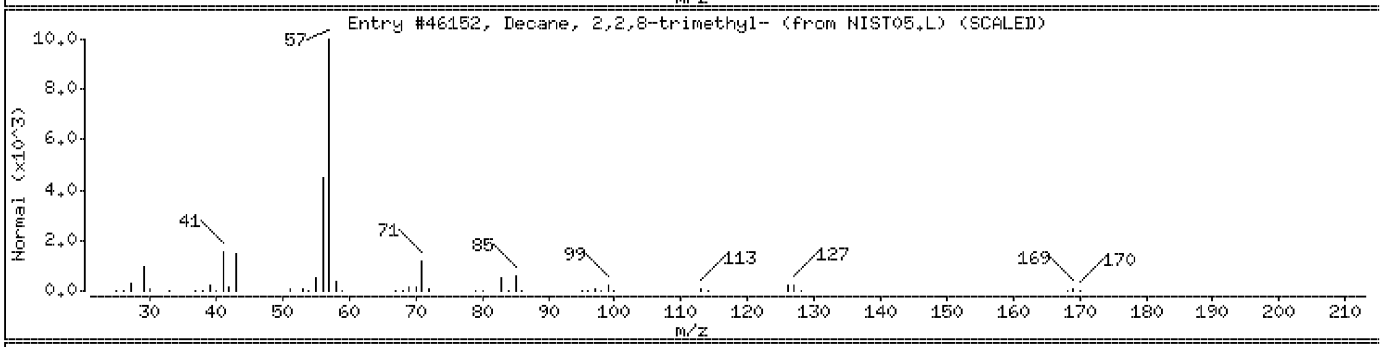
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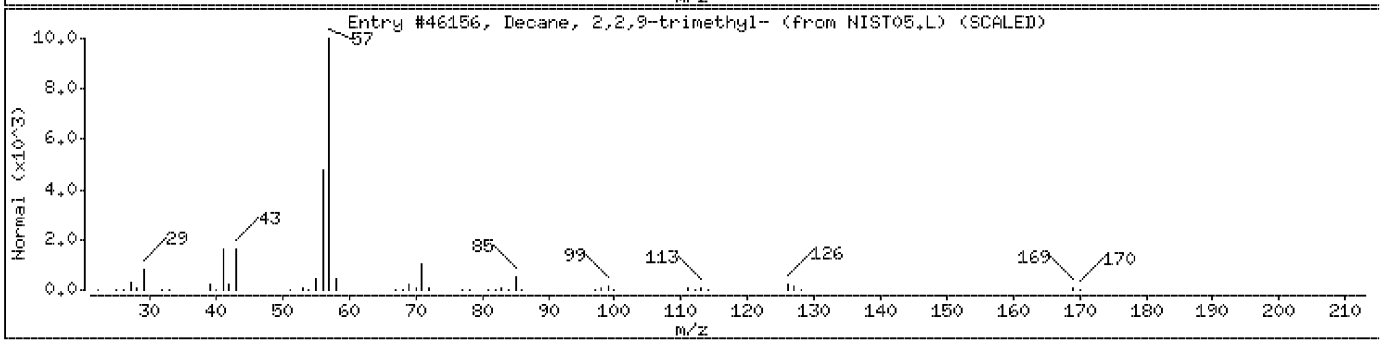
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Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	NIST05.L	76118	78	C16H34	226
Decane, 2,2,8-trimethyl-	62238-01-1	NIST05.L	46152	72	C13H28	184
Decane, 2,2,9-trimethyl-	62238-00-0	NIST05.L	46156	72	C13H28	184









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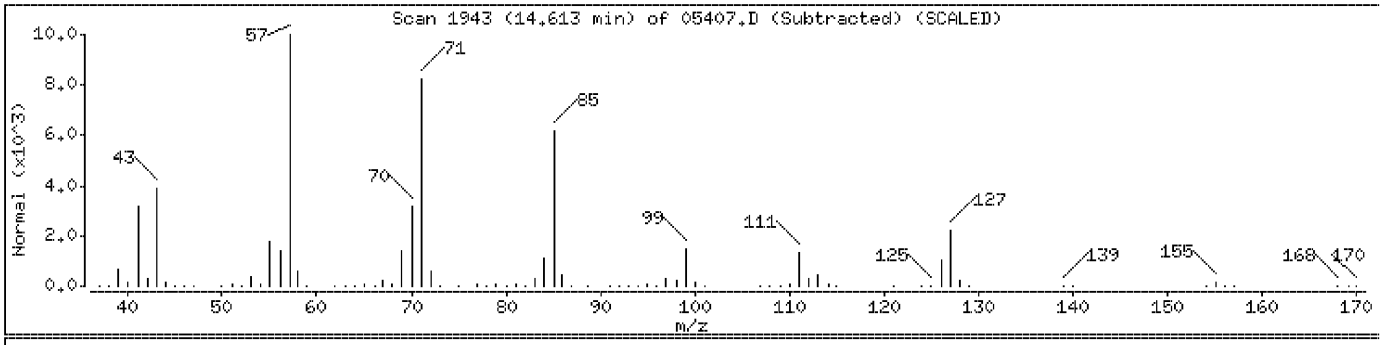
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Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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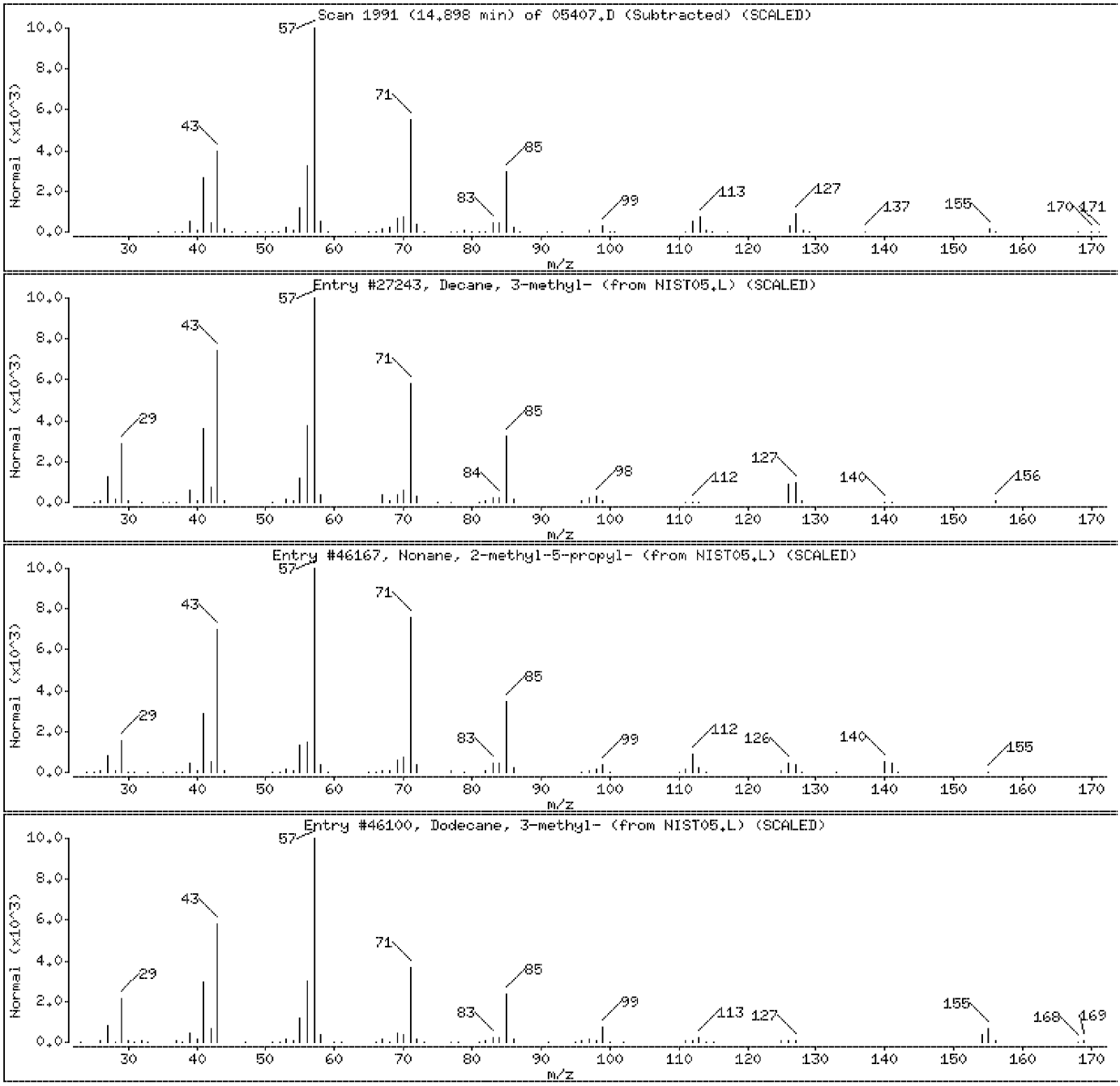
Sample Info: 5058707002, 1.39x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 3-methyl-	13151-34-3	NIST05.L	27243	72	C11H24	156
Nonane, 2-methyl-5-propyl-	31081-17-1	NIST05.L	46167	72	C13H28	184
Dodecane, 3-methyl-	17312-57-1	NIST05.L	46100	72	C13H28	184



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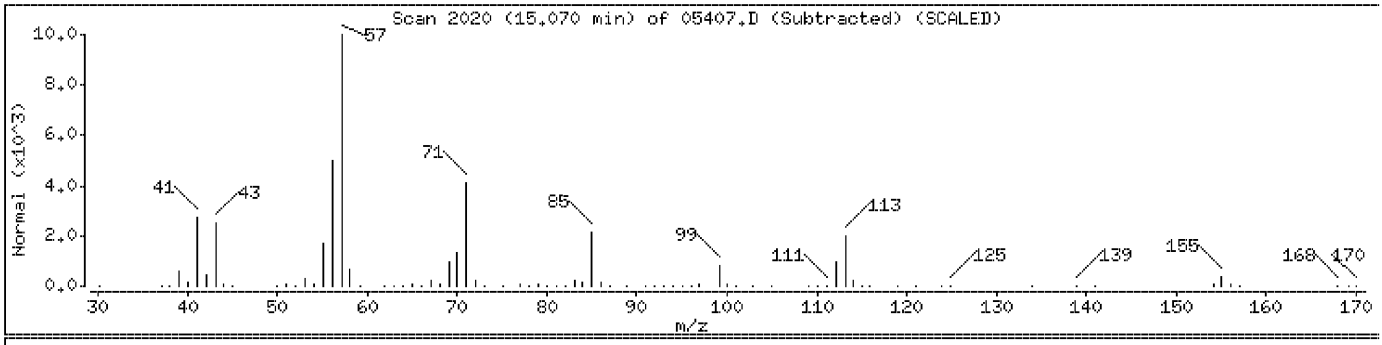
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Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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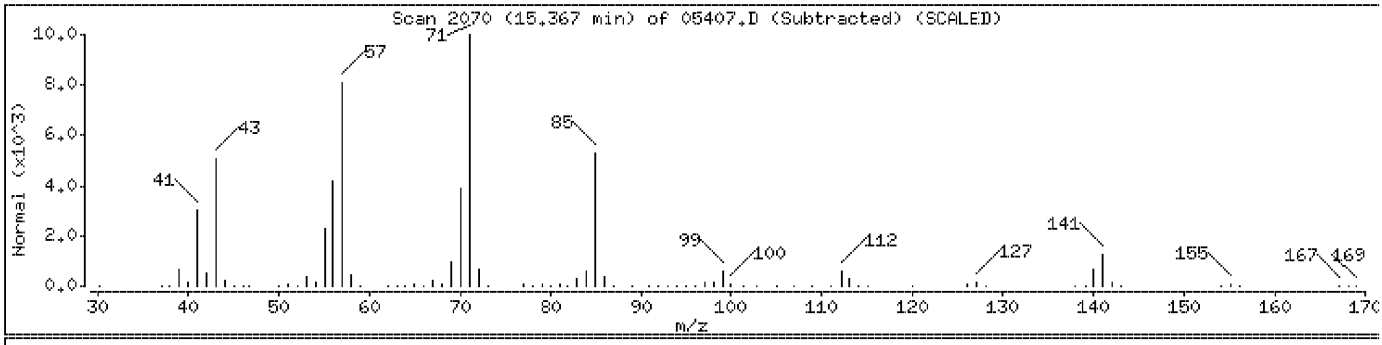
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Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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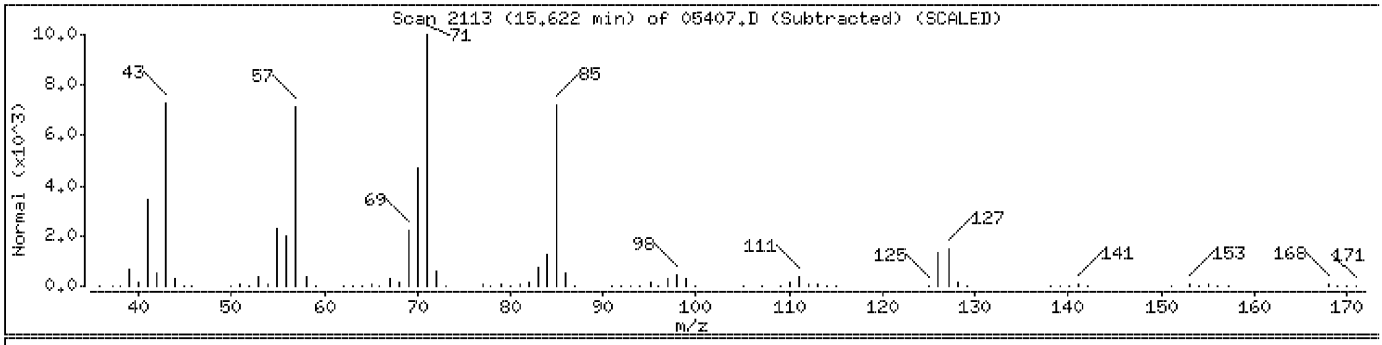
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Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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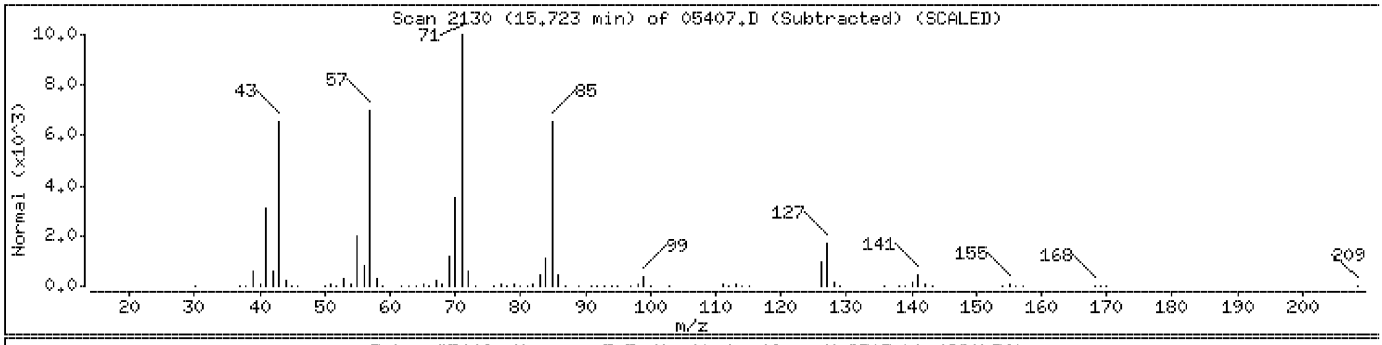
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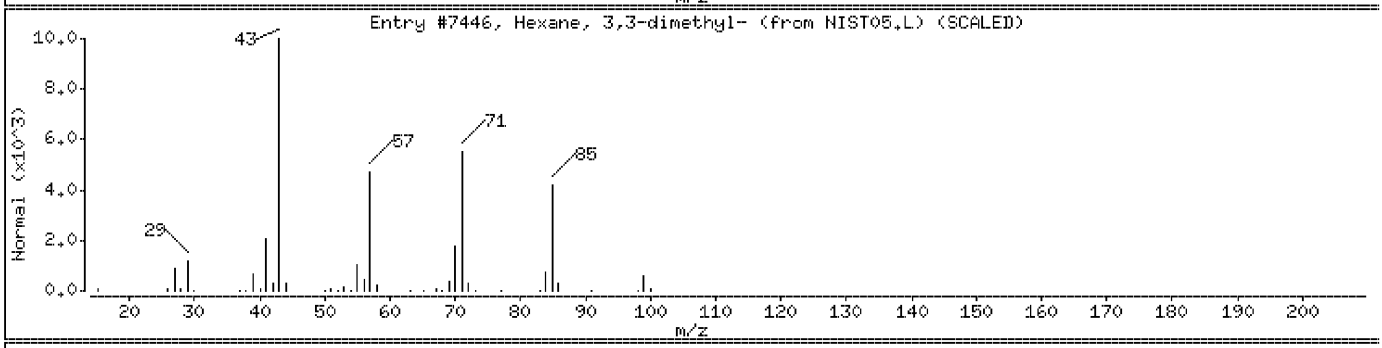
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane, 3,3-dimethyl-	563-16-6	NIST05.L	7446	72	C8H18	114





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

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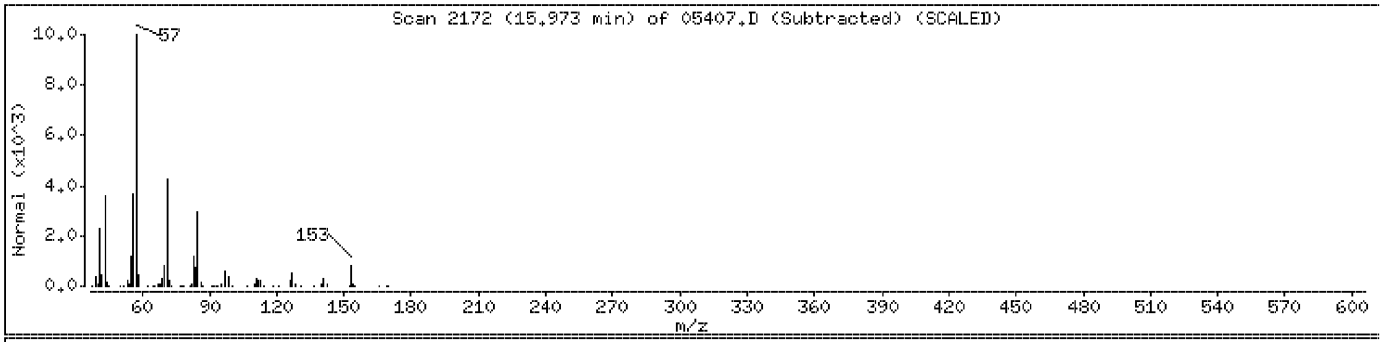
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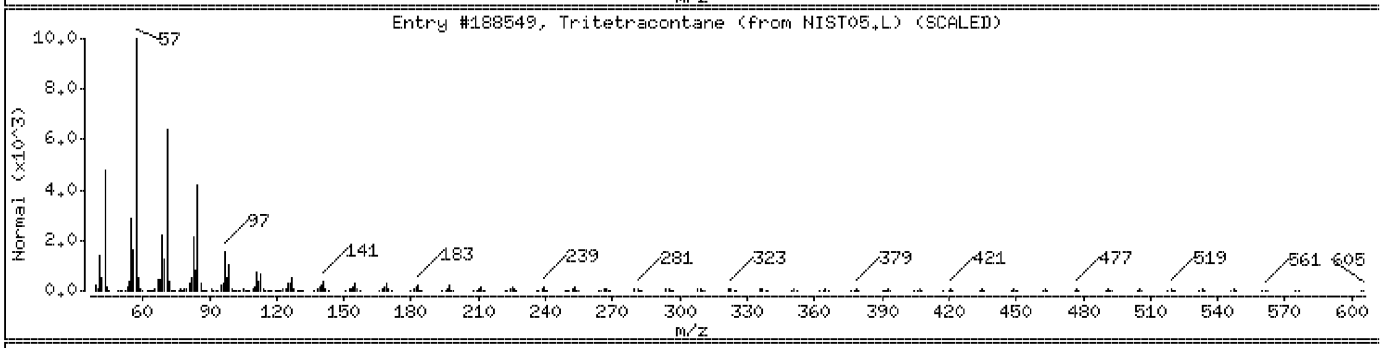
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tritetracontane	7098-21-7	NIST05.L	188549	72	C43H88	605





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05407.D

Date : 23-FEB-2012 15:06

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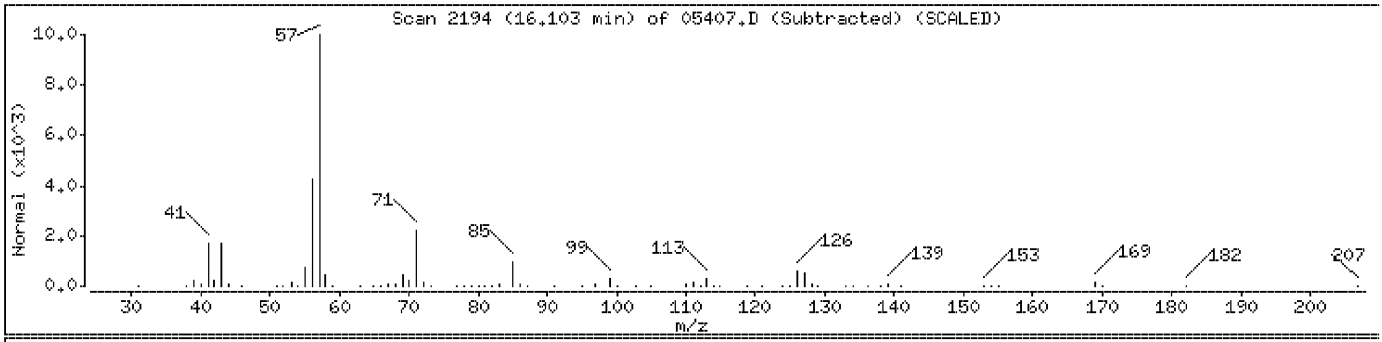
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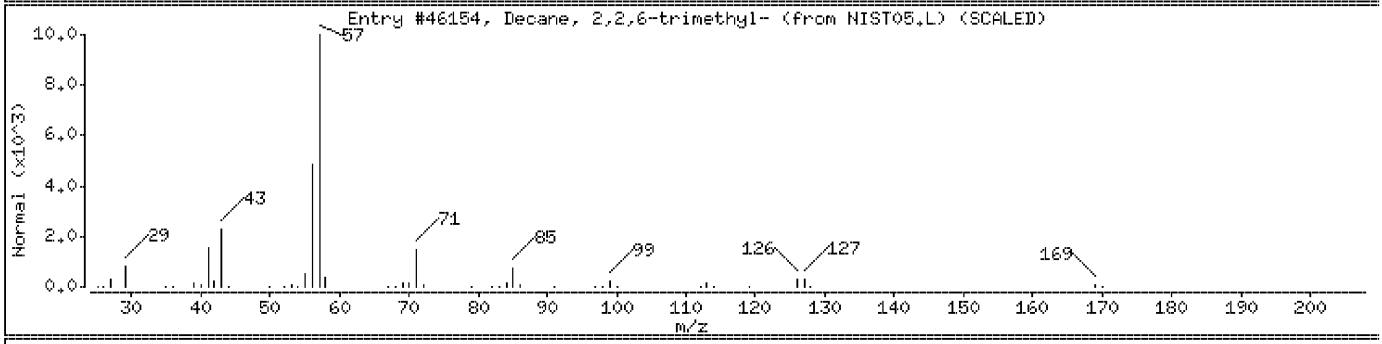
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 2,2,6-trimethyl-	62237-97-2	NIST05.L	46154	78	C13H28	184





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Report Date: 24-Feb-2012 08:09

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05408.D
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Smp Info : 5058707003, 1.44x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 8
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	Compound Not Detected.					
	8 Chloroethane	64	Compound Not Detected.					
	13 1,1-Dichloroethene	61	Compound Not Detected.					
	17 trans-1,2-dichloroethene	96	Compound Not Detected.					
	18 Methyl Tert Butyl Ether	73	Compound Not Detected.					
	20 1,1-Dichloroethane	63	5.306	5.176	(0.786)	16248	0.01283	0.0185(aQ)
$	21 Hexane-d14(S)	66	5.294	5.301	(0.784)	596285	9.14018	9.14
	24 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	29 1,1,1-Trichloroethane	97	6.244	6.250	(0.924)	3255	0.02324	0.0335(a)
	30 1,2-Dichloroethane	62	6.262	6.268	(0.927)	3596	0.04418	0.0636(a)
	31 Benzene	78	6.547	6.553	(0.969)	49660	0.26869	0.387
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1557205	10.0000	
	38 Trichloroethene	130	7.217	7.224	(1.069)	1378	0.01582	0.0228(aQ)
$	43 Toluene-d8 (S)	98	8.571	8.577	(1.269)	1370268	11.0277	11.0
	44 Toluene	91	8.666	8.672	(1.283)	1037464	4.86150	7.00
	49 Tetrachloroethene	166	9.675	9.681	(0.925)	4395	0.03521	0.0507(a)
*	50 Chlorobenzene - d5	117	10.458	10.464	(1.000)	861887	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.034)	231019	1.07649	1.55
	53 m&p-Xylene	91	10.980	10.993	(1.050)	690889	3.76647	5.42
	57 o-Xylene	91	11.562	11.574	(1.106)	210179	1.32182	1.90
	60 N-Propylbenzene	91	Compound Not Detected.					
$	66 1,4-dichlorobenzene-d4 (S)	150	14.269	14.275	(1.364)	551668	10.0309	10.0

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Report Date: 24-Feb-2012 08:09

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Report Date: 24-Feb-2012 08:09

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05408.D
Lab Smp Id: 5058707003
Analysis Type: VOA
Quant Type: ISTD
Operator: CJR
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.

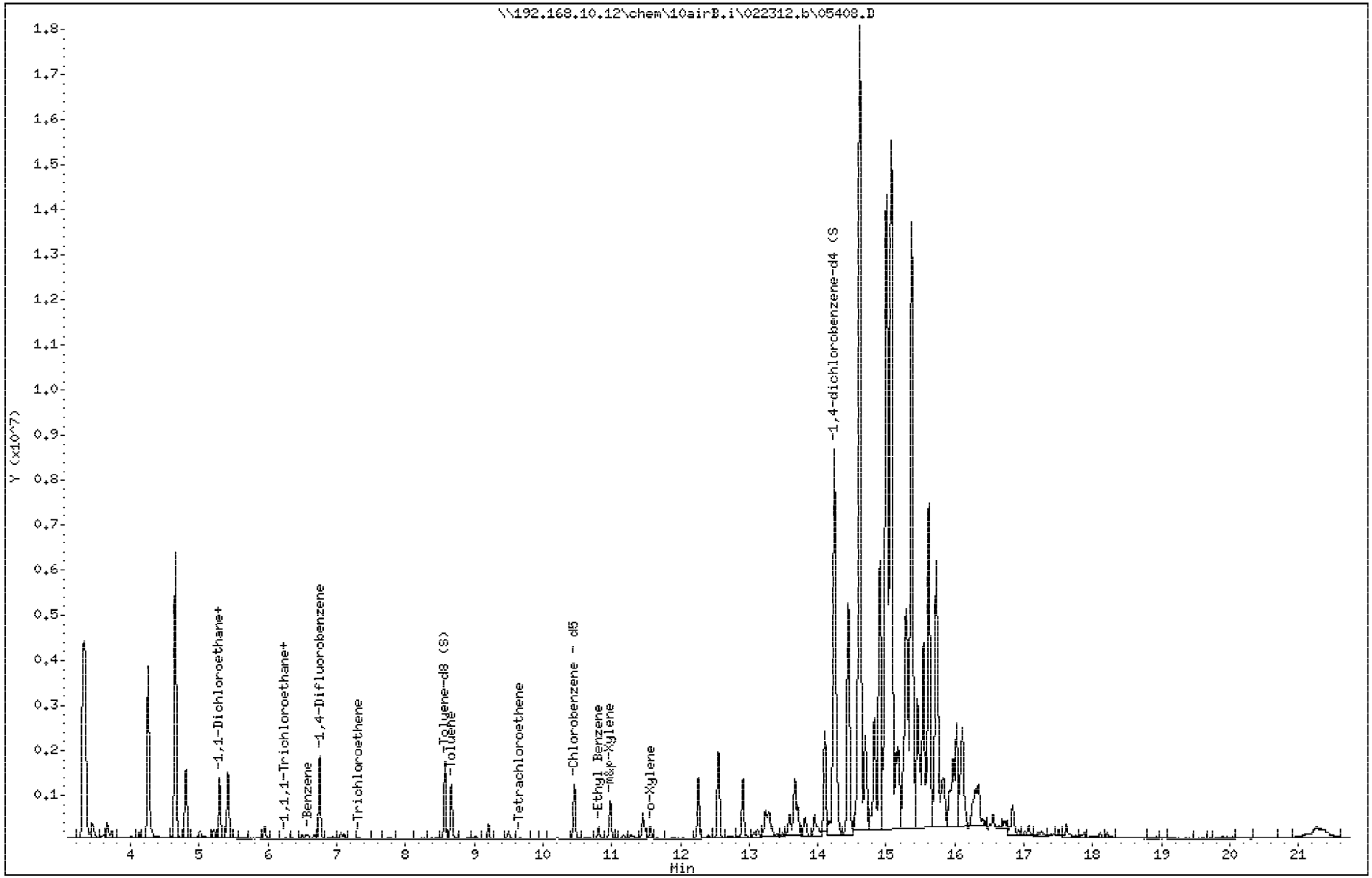
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1557205	-9.00
50 Chlorobenzene - d	907290	544374	1270206	861887	-5.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.06

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Date : 23-FEB-2012 15:37
Client ID:
Sample Info: 5058707003, 1.44x

Instrument: 10airB.i
Operator: CJR
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

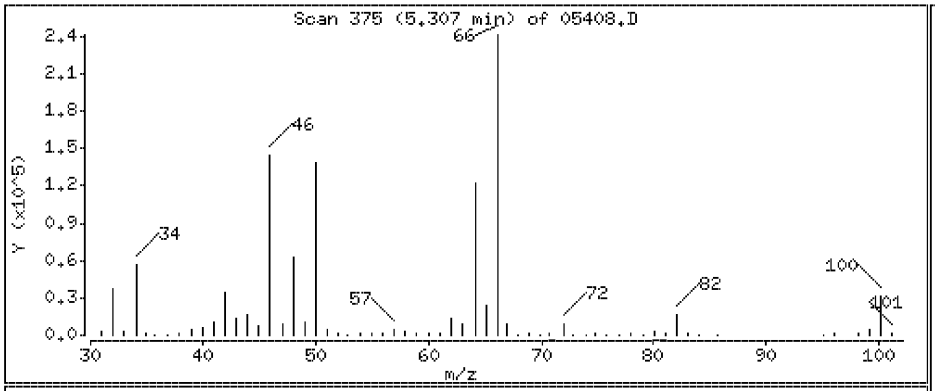
Operator: CJR

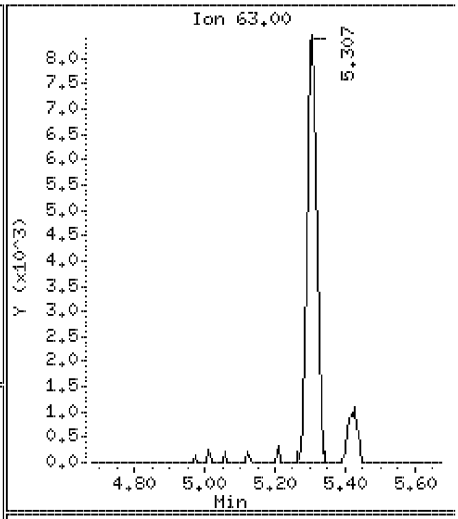
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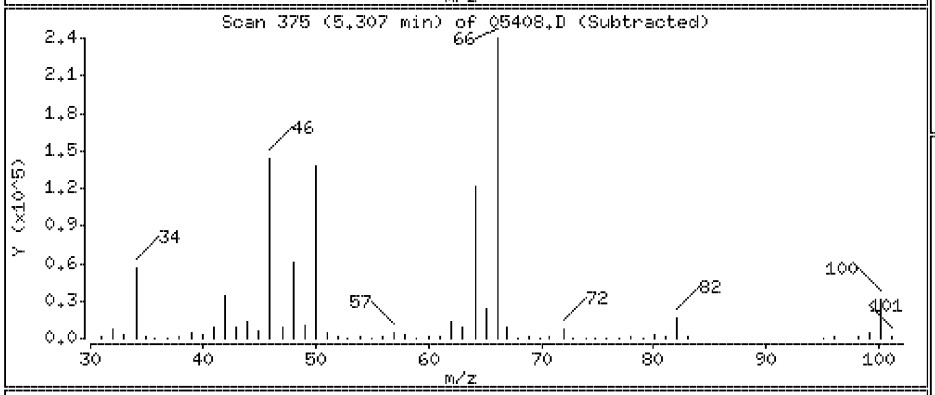
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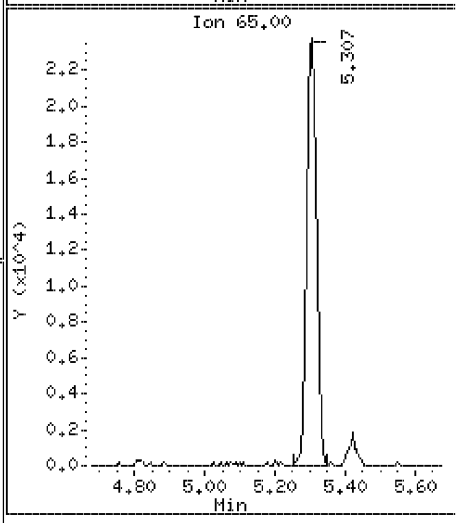
20 1,1-Dichloroethane

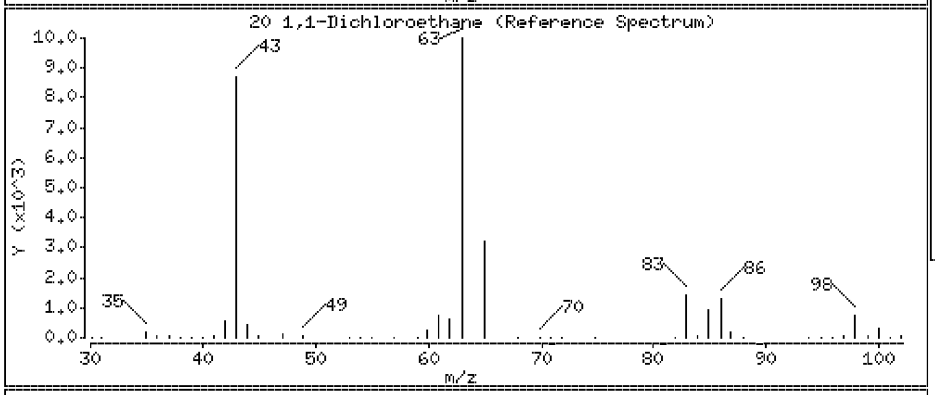
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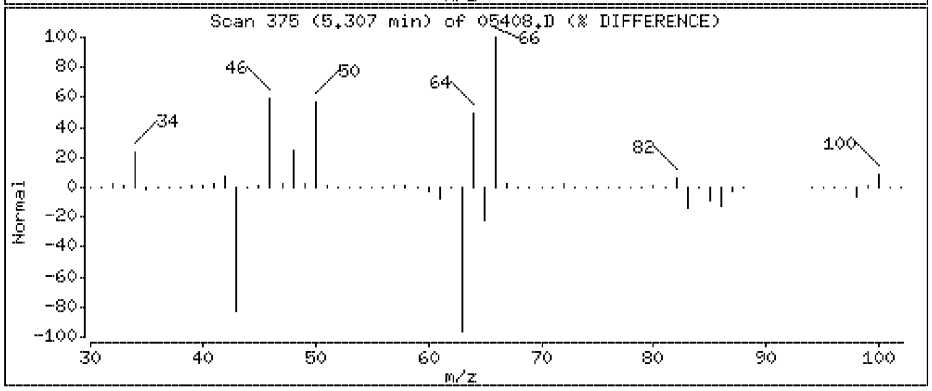












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

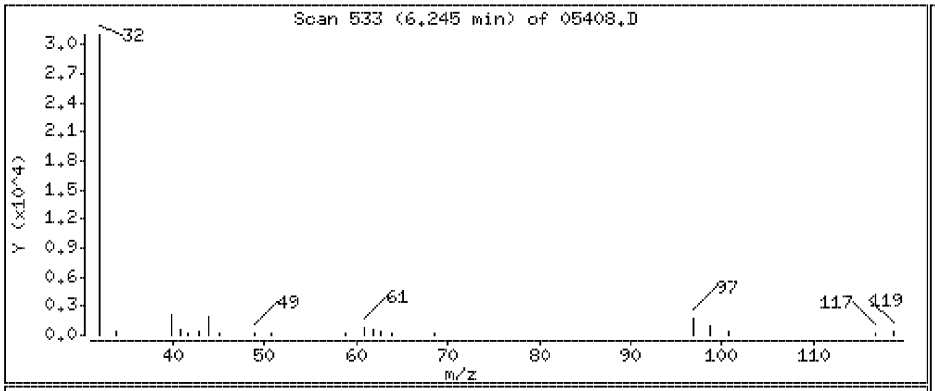
Operator: CJR

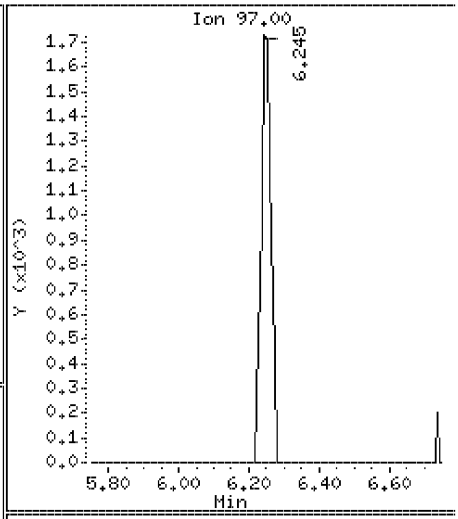
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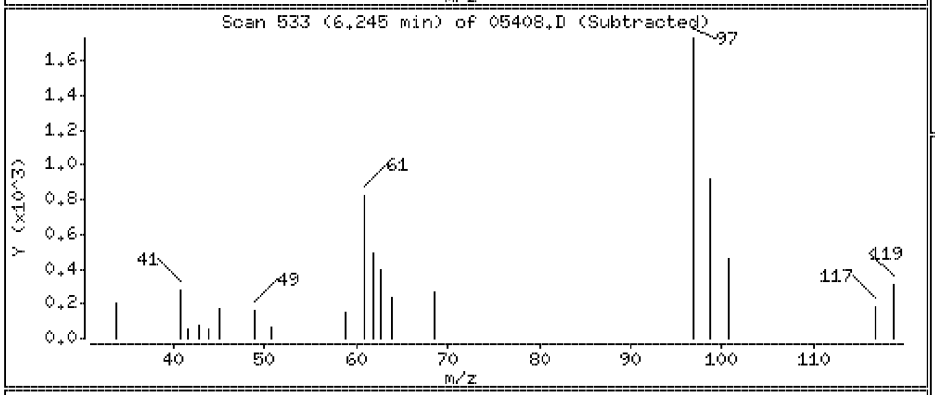
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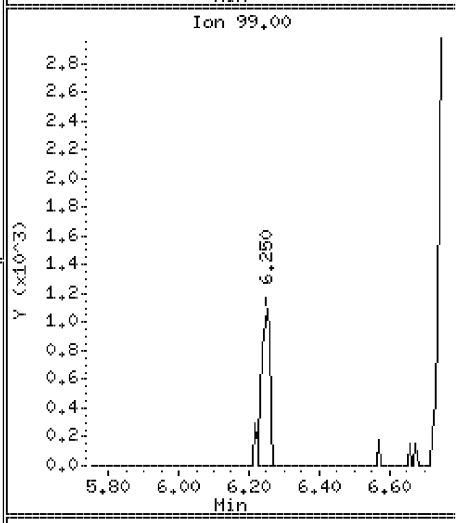
29 1,1,1-Trichloroethane

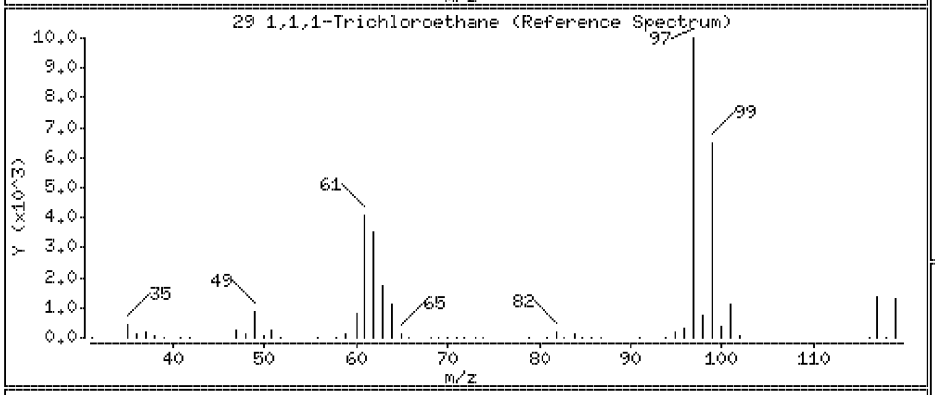
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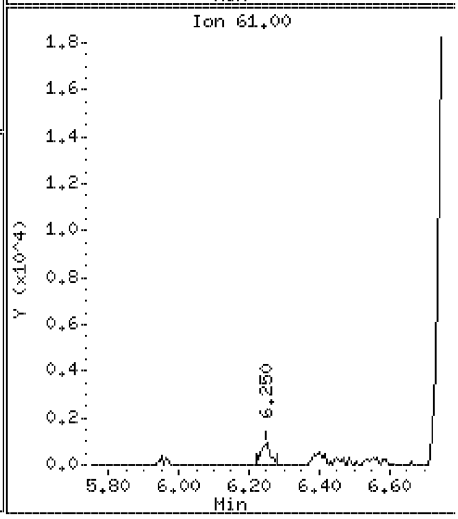


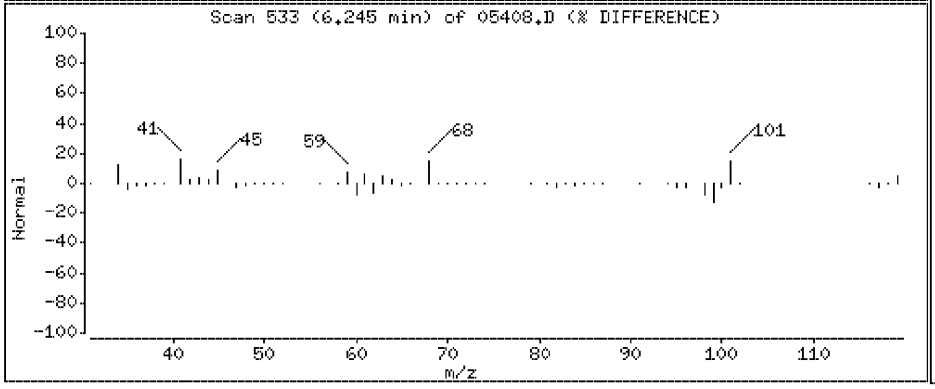












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

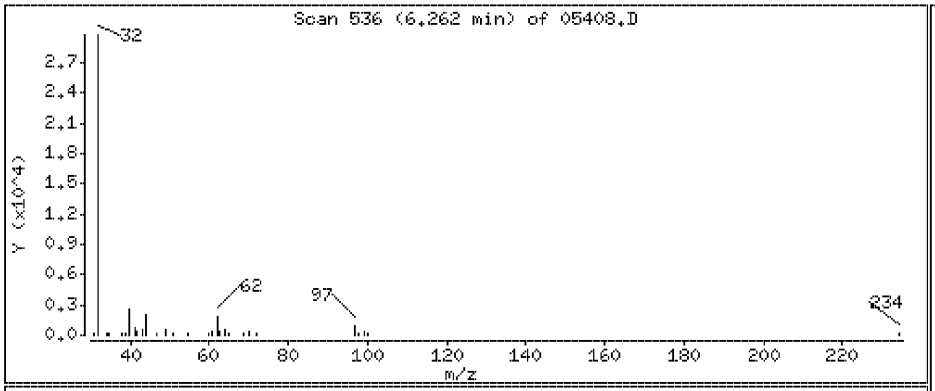
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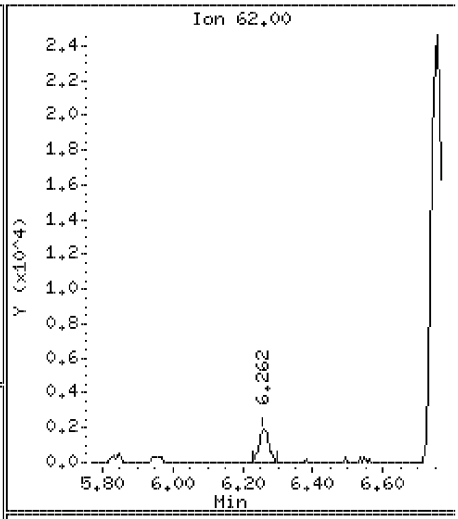
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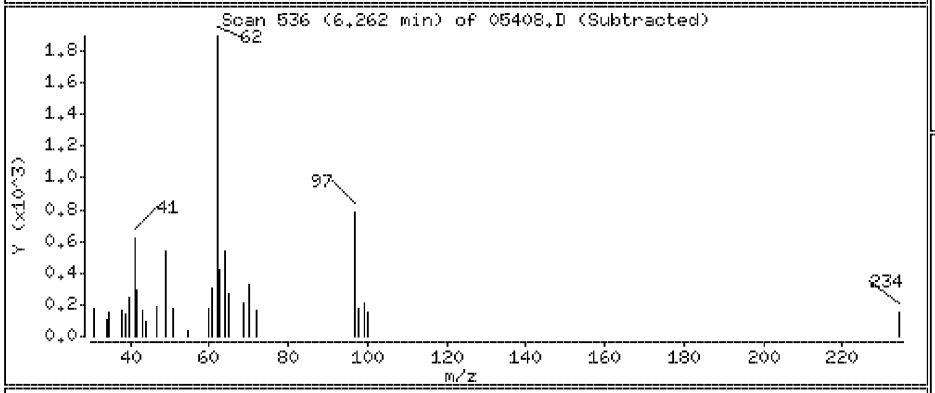
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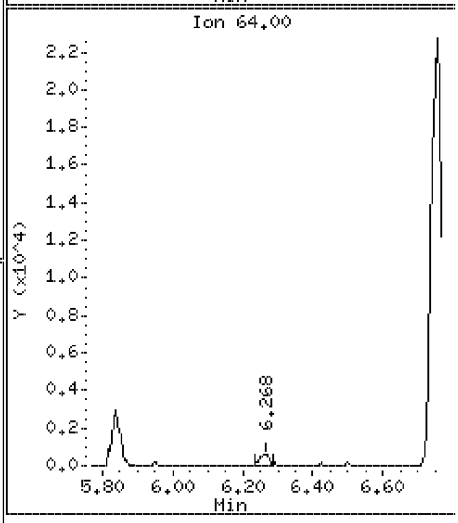
30 1,2-Dichloroethane

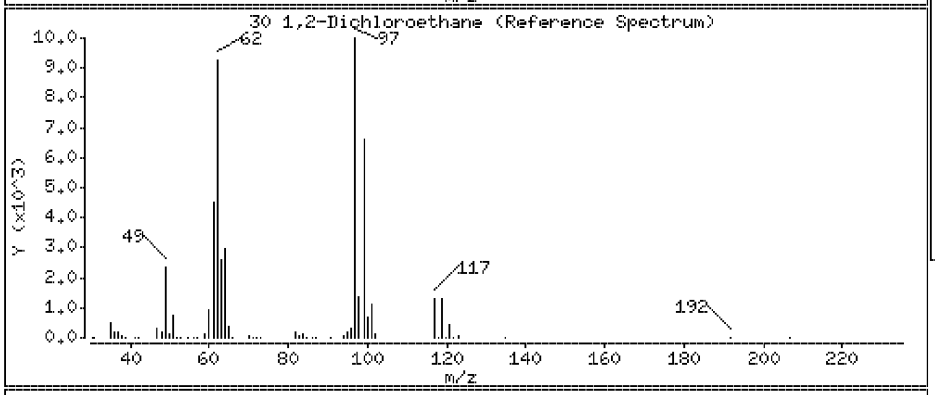
Concentration: 0.0636 ppbv

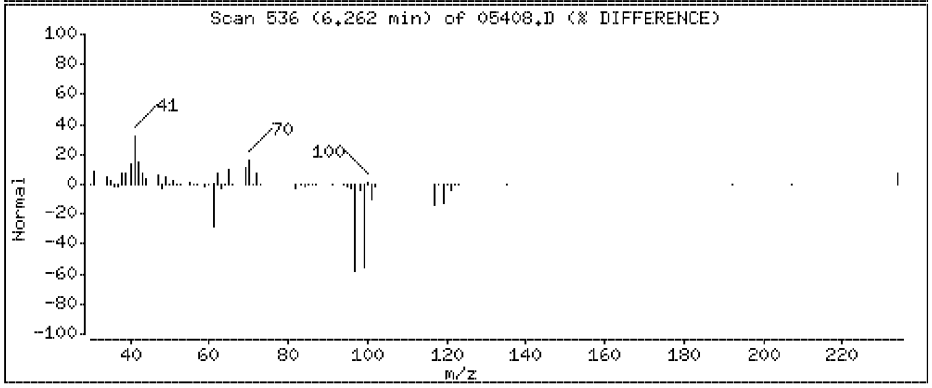












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Sample Info: 5058707003, 1.44x

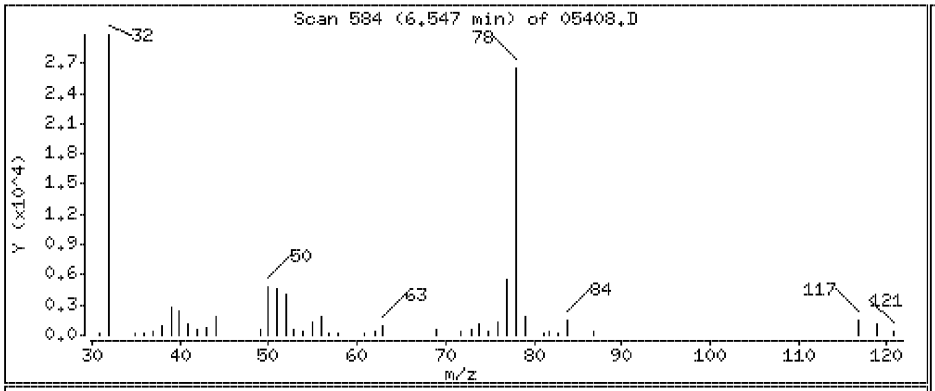
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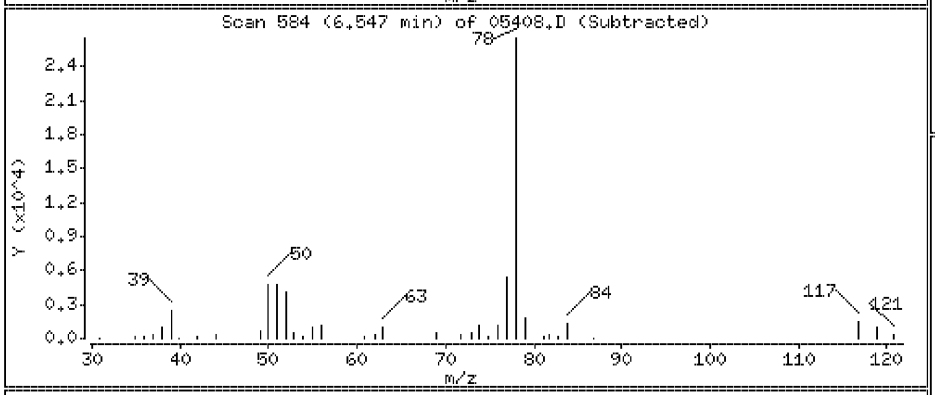
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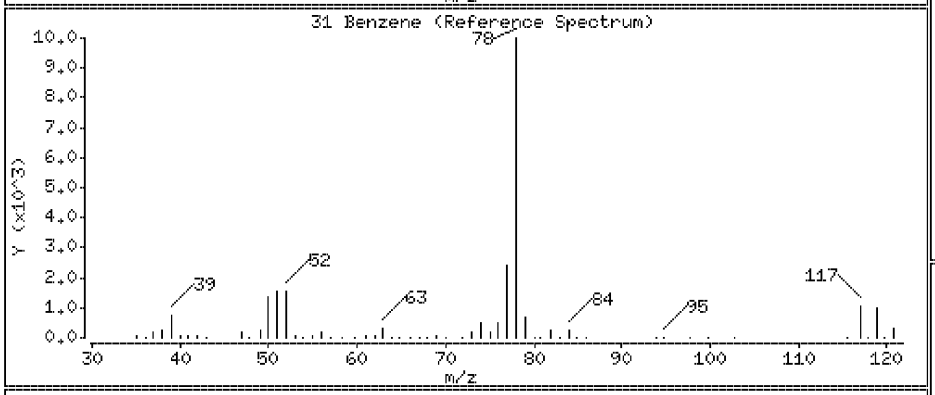
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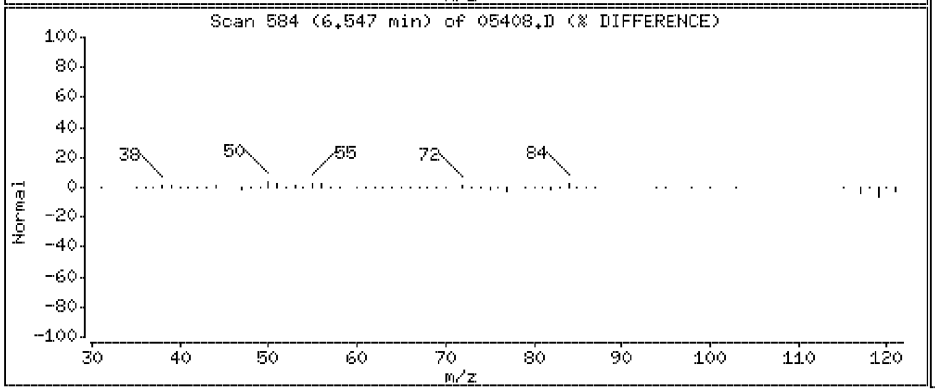
31 Benzene

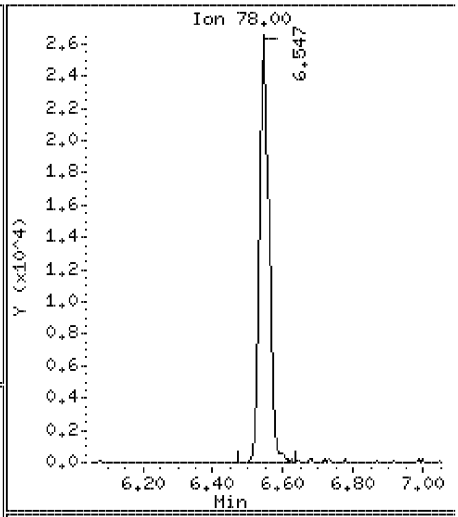
Concentration: 0.387 ppbv

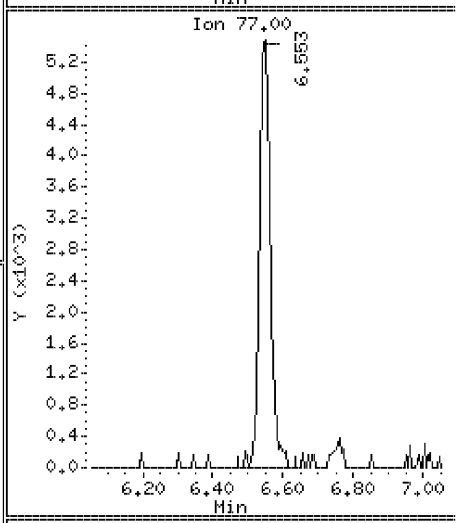


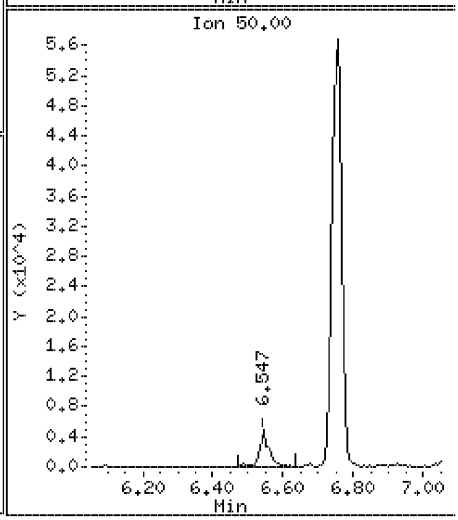












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

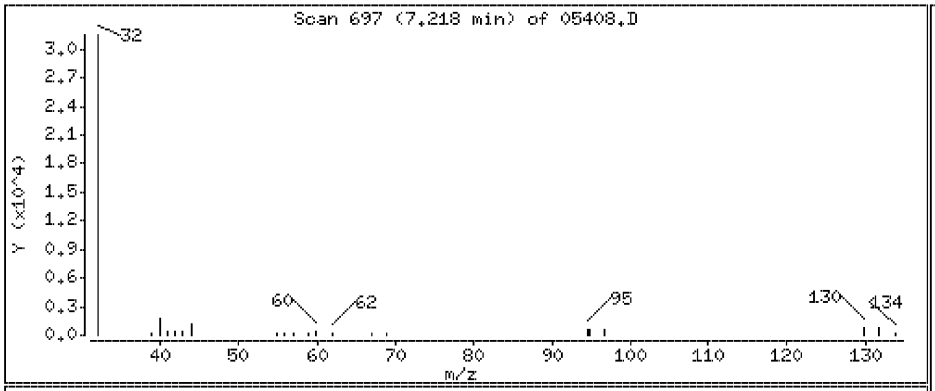
Operator: CJR

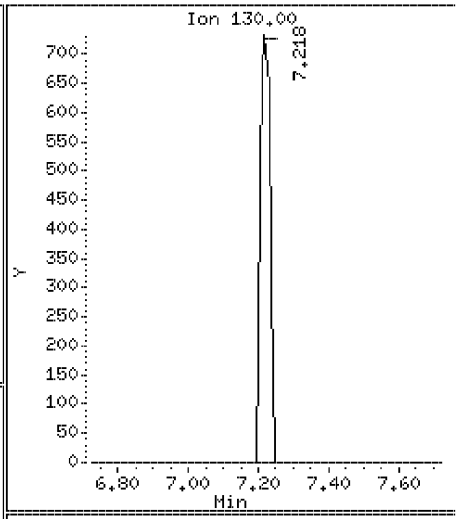
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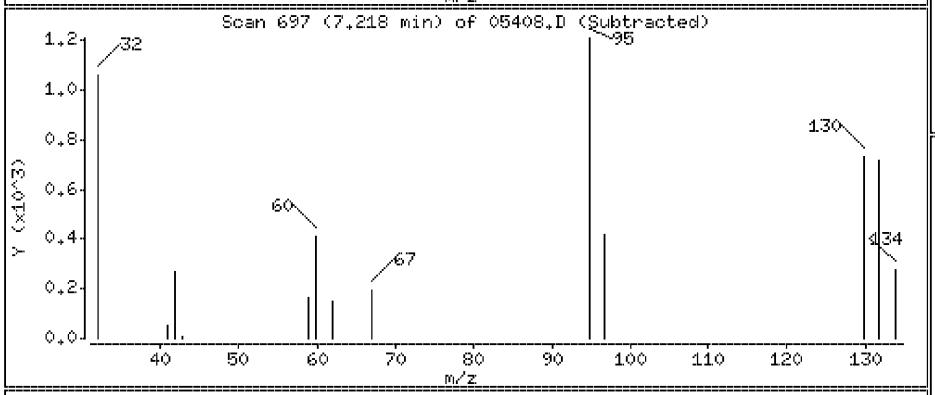
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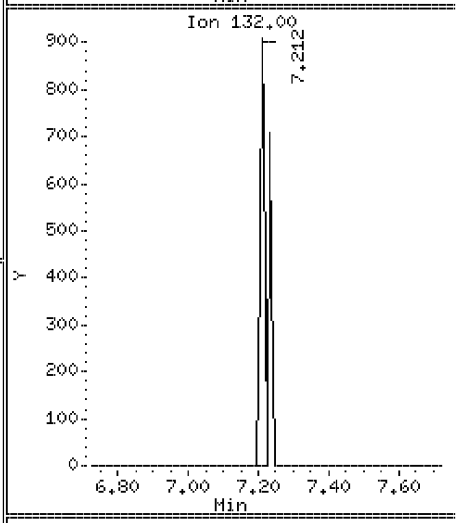
38 Trichloroethene

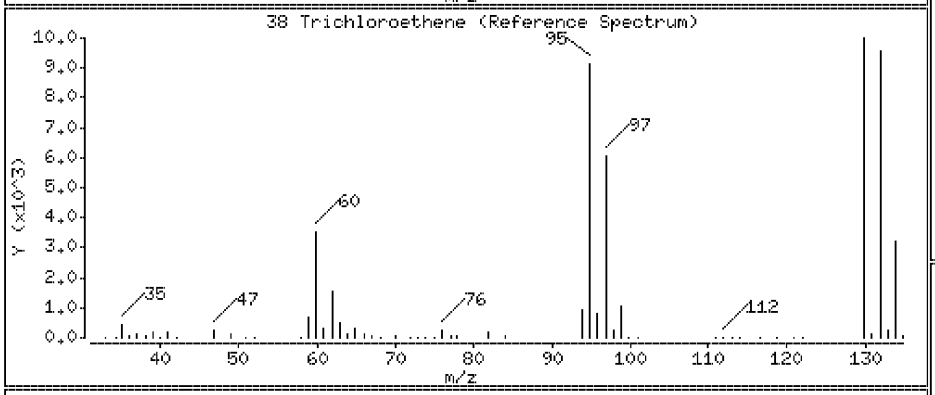
Concentration: 0.0228 ppbv

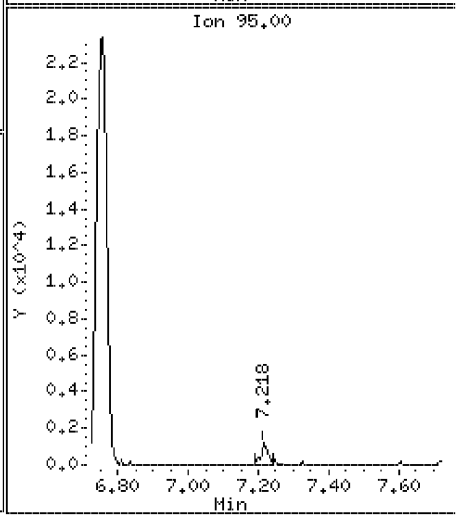


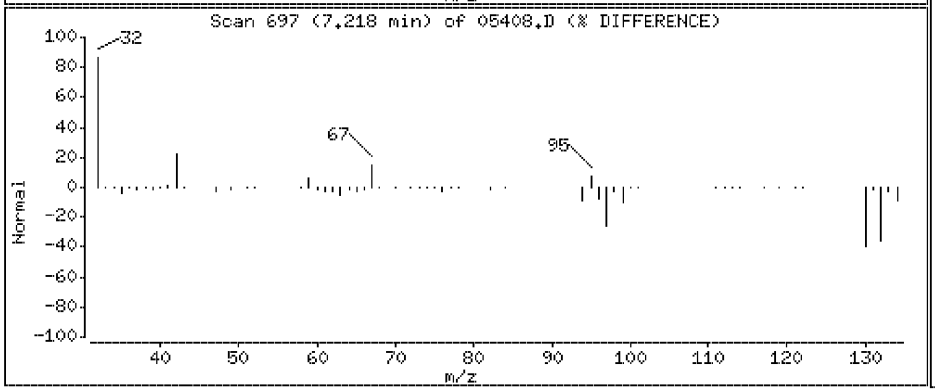












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

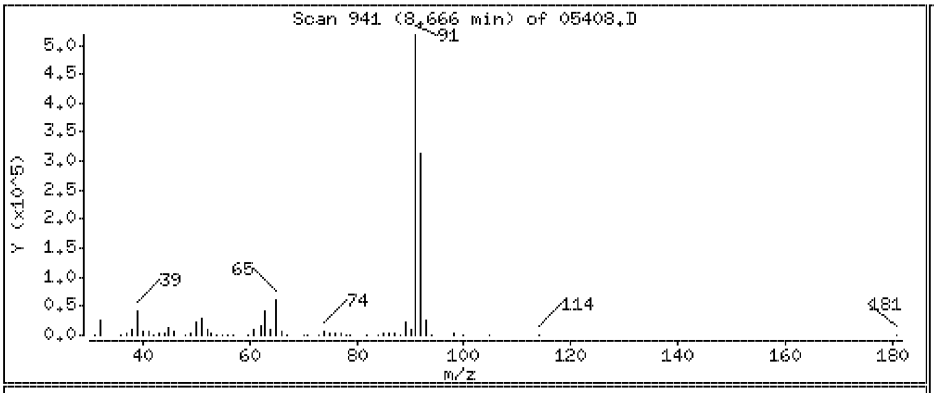
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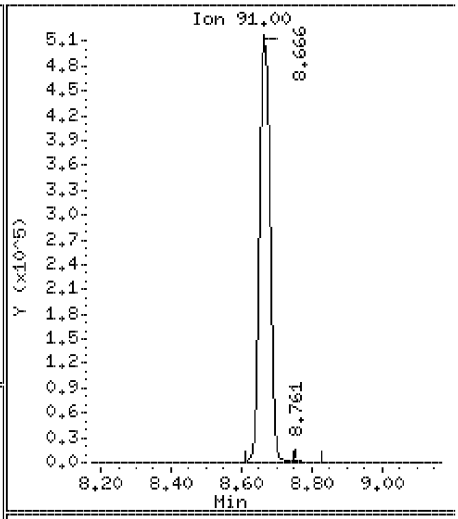
Column phase: J&W DB-5

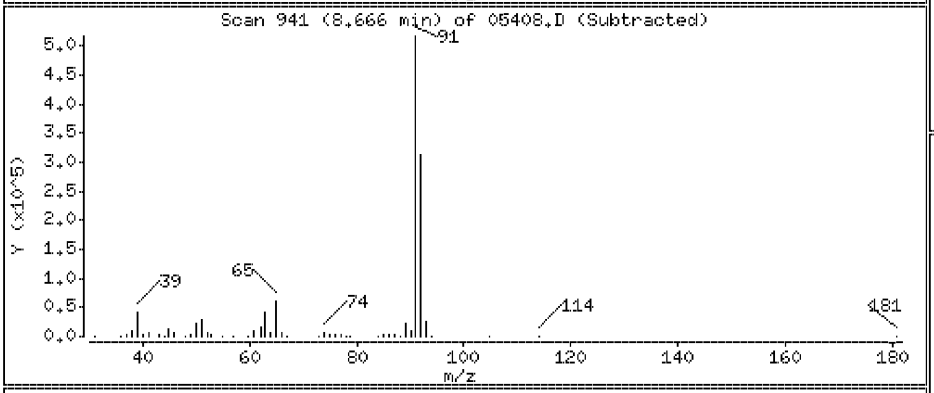
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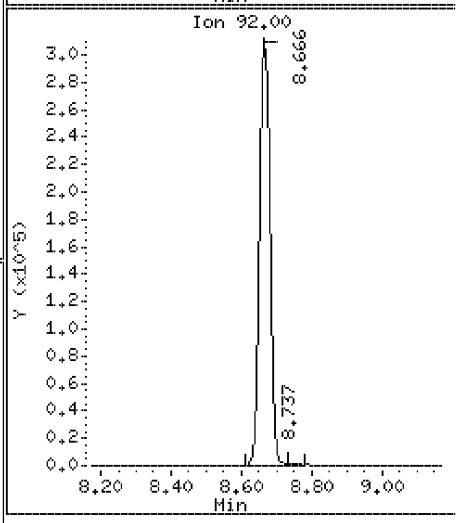
44 Toluene

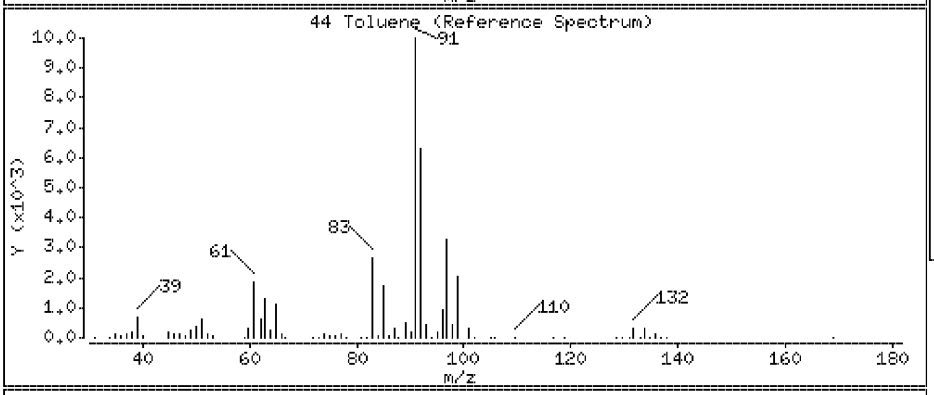
Concentration: 7.00 ppbv

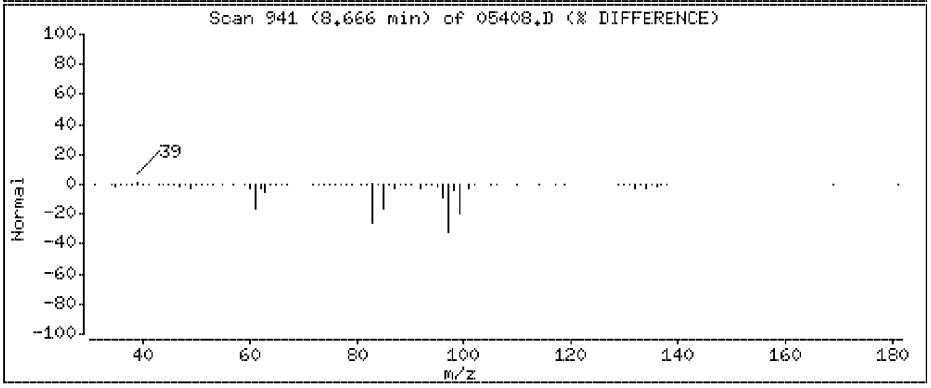












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

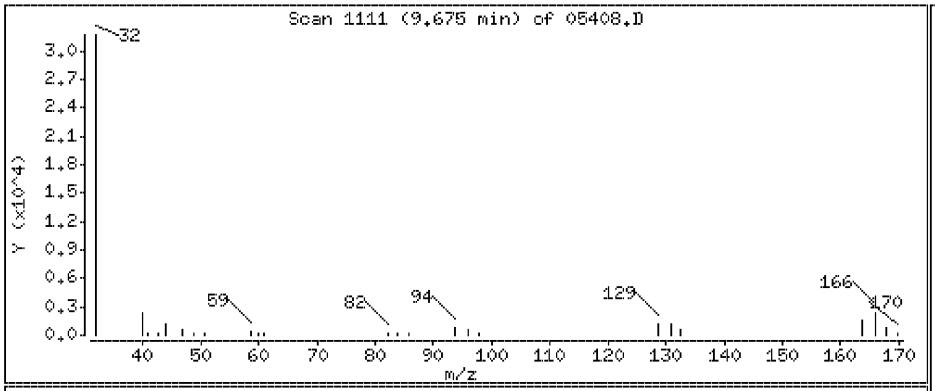
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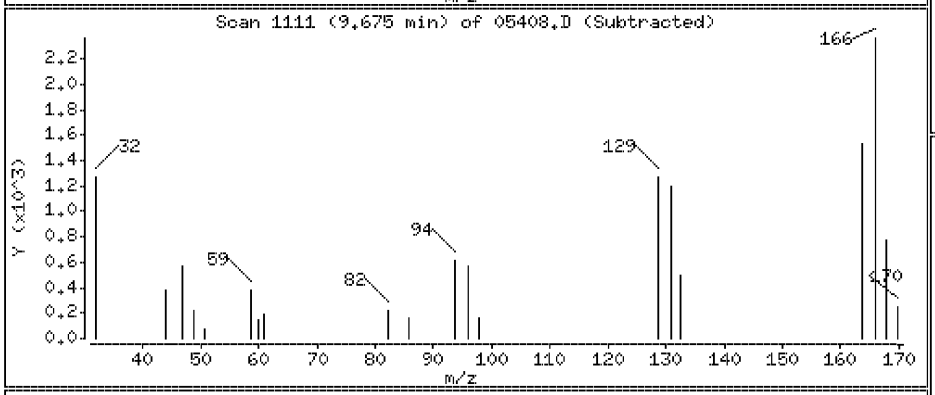
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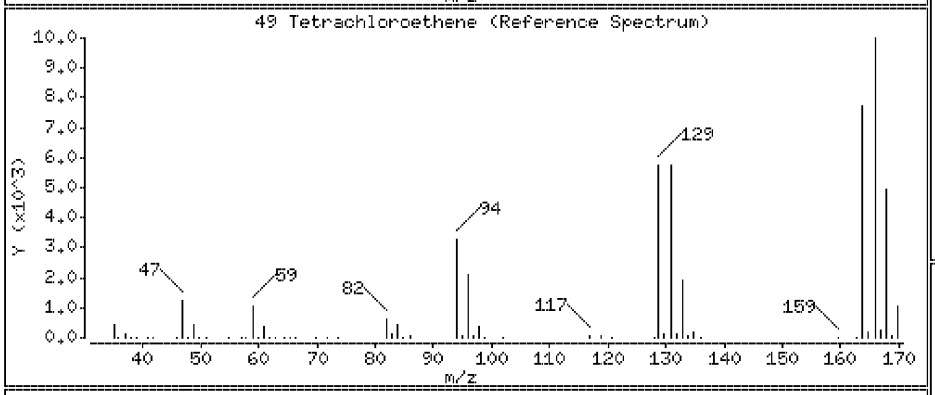
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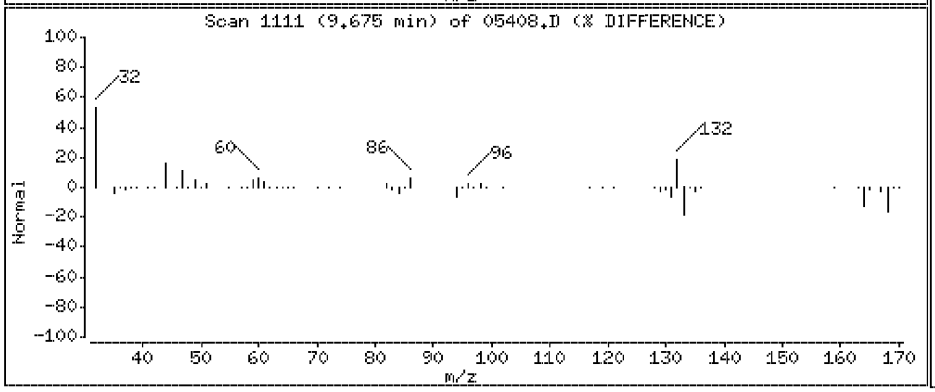
49 Tetrachloroethene

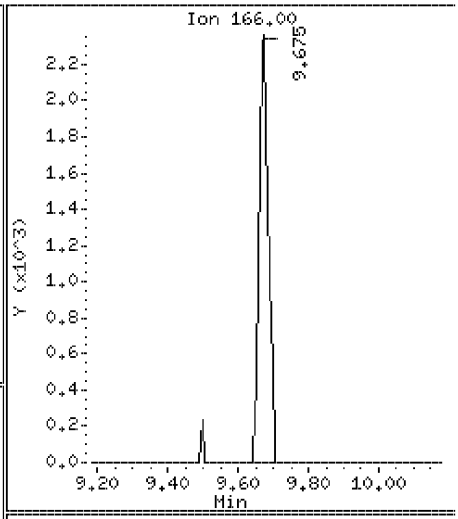
Concentration: 0.0507 ppbv

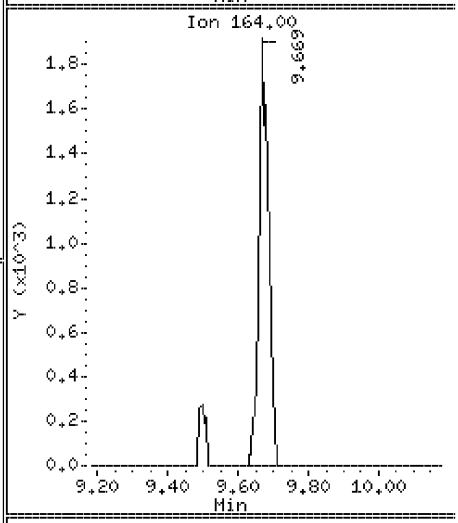


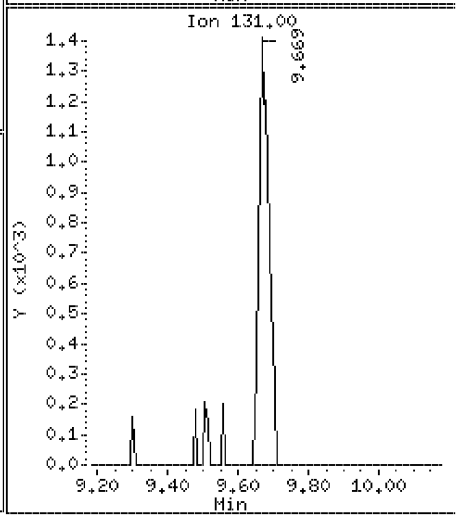












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

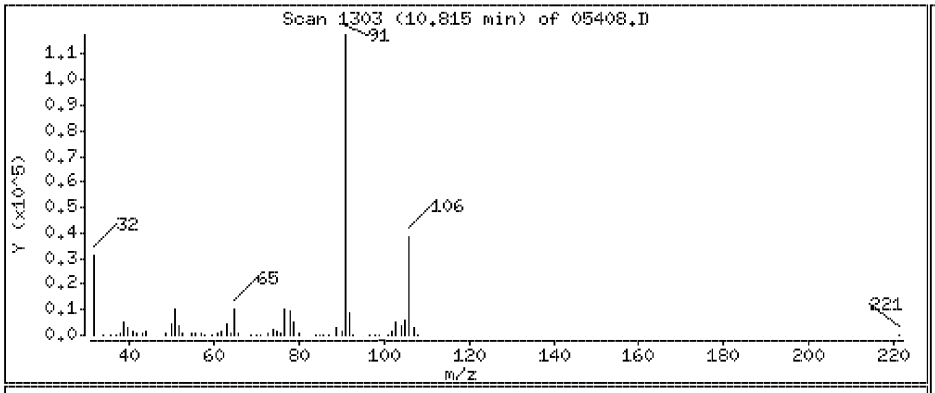
Operator: CJR

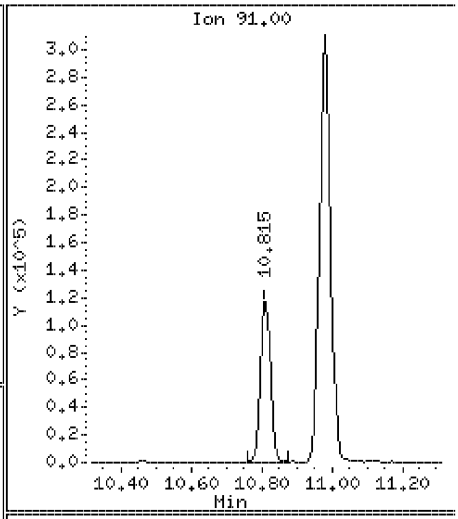
Column phase: J&W DB-5

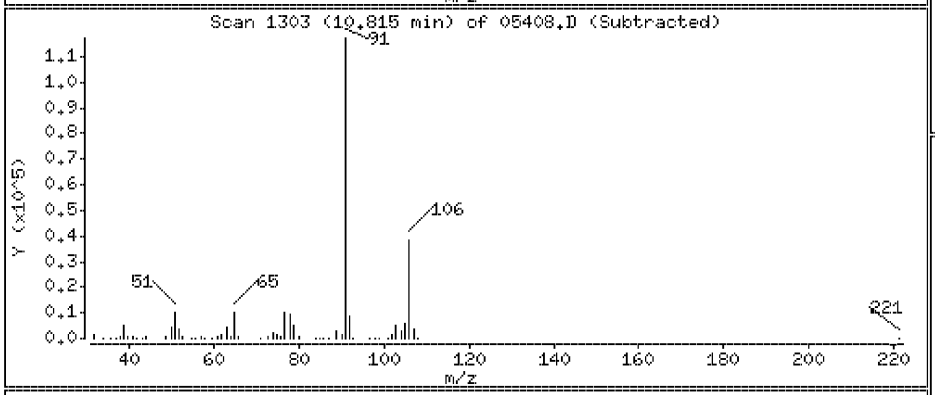
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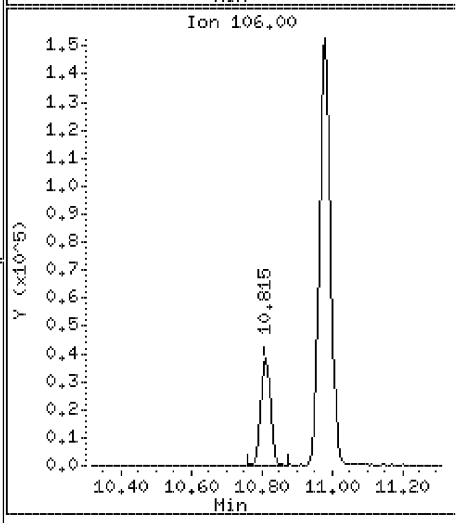
52 Ethyl Benzene

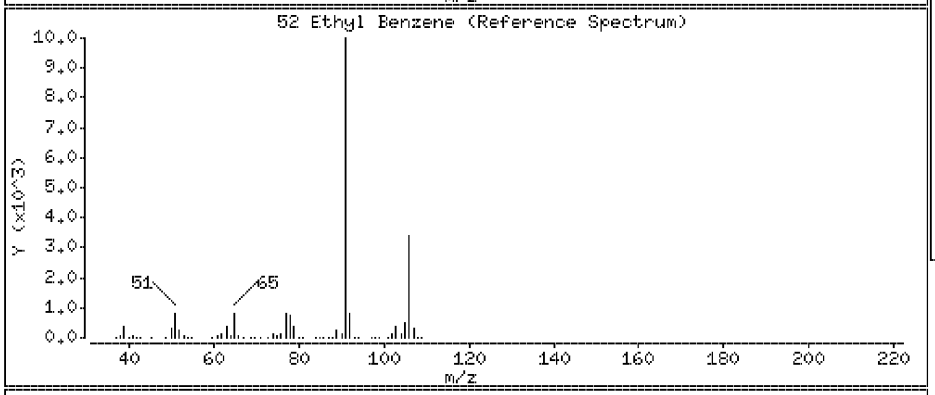
Concentration: 1.55 ppbv

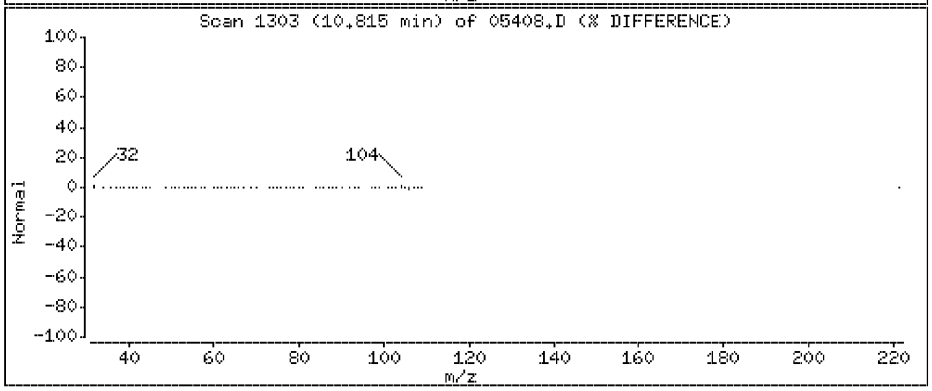












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Date : 23-FEB-2012 15:37

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Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

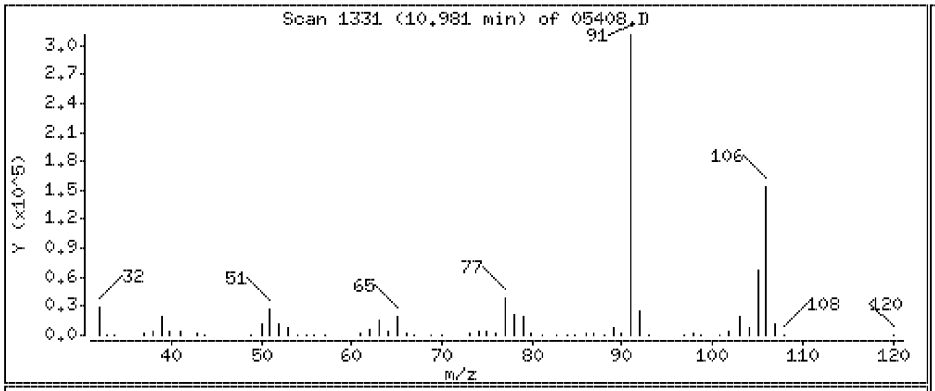
Operator: CJR

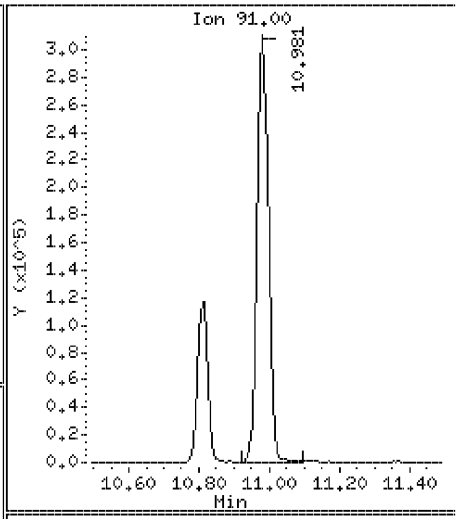
Column phase: J&W DB-5

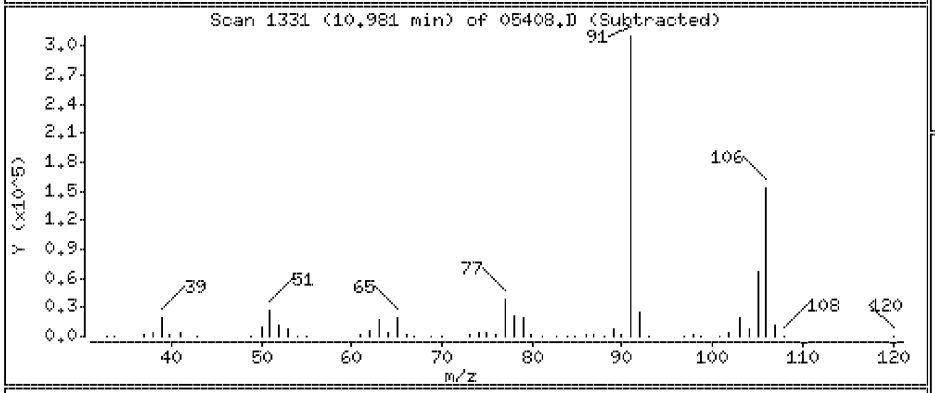
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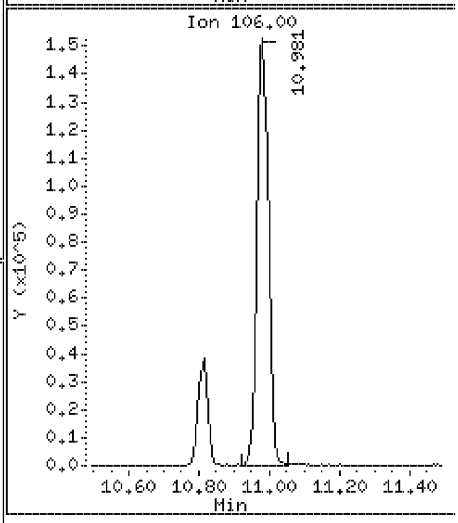
53 m&p-Xylene

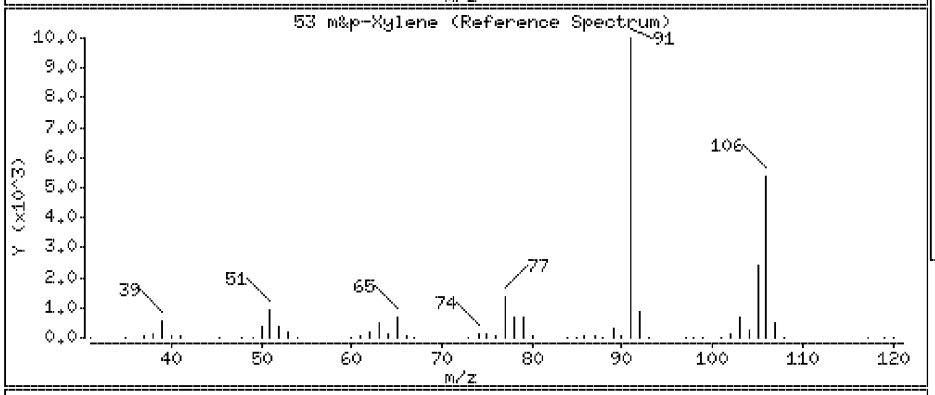
Concentration: 5.42 ppbv

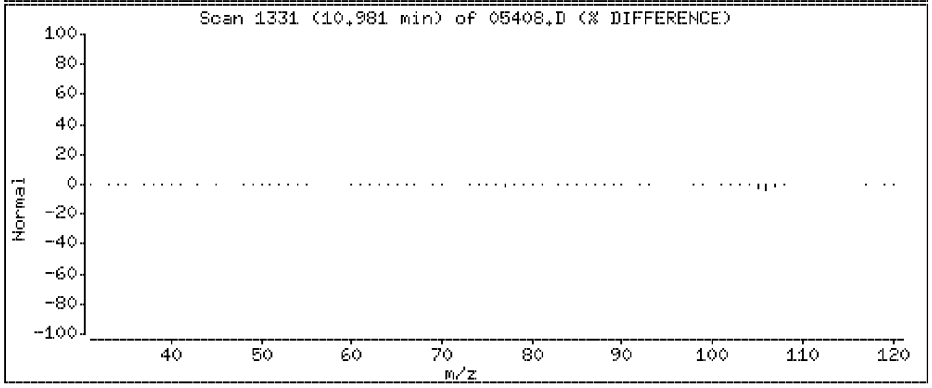












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Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

Sample Info: 5058707003, 1.44x

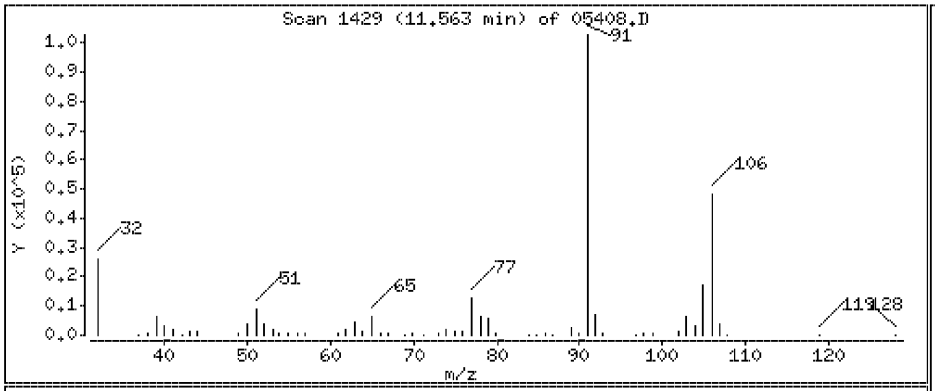
Operator: CJR

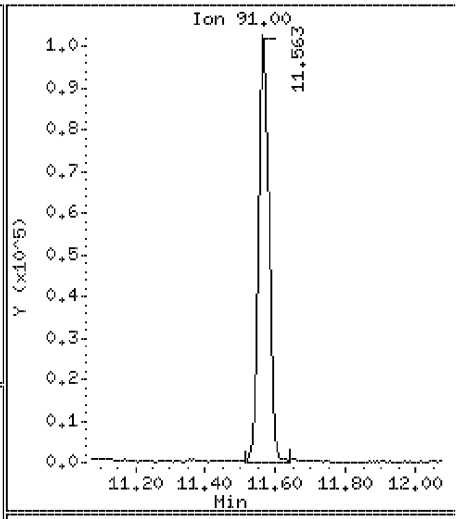
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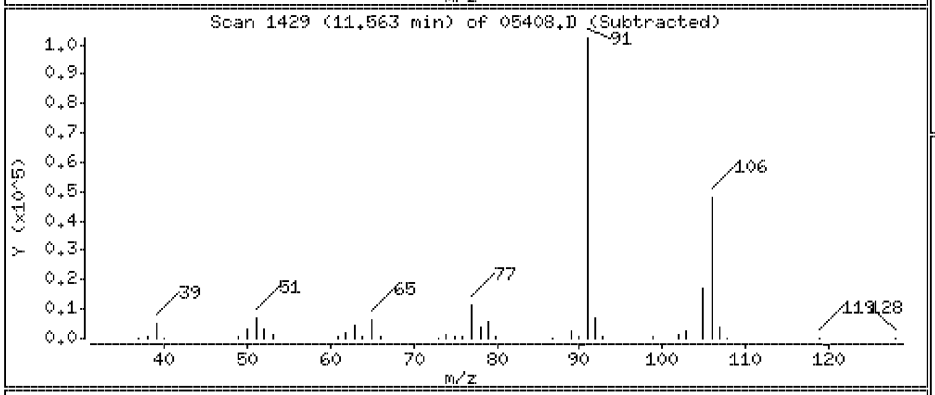
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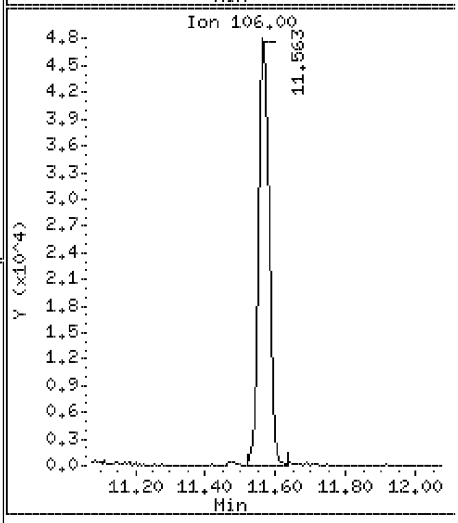
57 o-Xylene

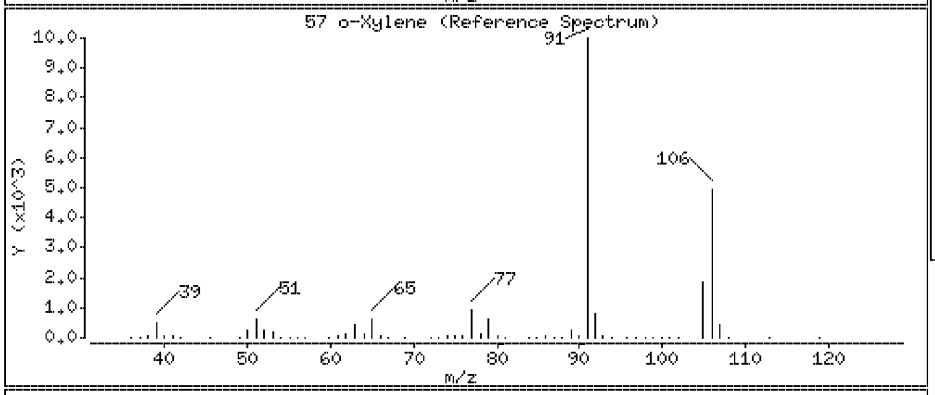
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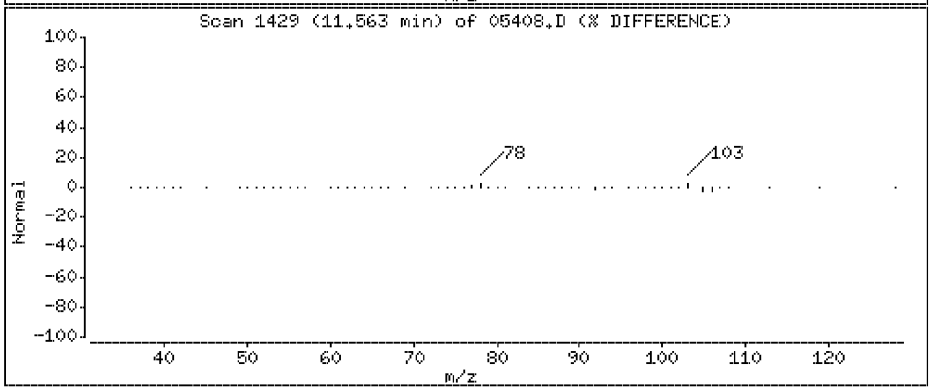












Data File: \\192.168.10.12\chem\10airB.i\022312.b/05408.D
Injection Date: 23-FEB-2012 15:37
Instrument: 10airB.i
Lab Sample ID: 5058707003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Report Date: 24-Feb-2012 08:09

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Client SDG: 022312.b
Lab Smp Id: 5058707003
Operator : CJR
Sample Date:
Sample Location:
Sample Point:
Sample Matrix: AIR
Date Received:
Analysis Type: VOA
Level: LOW
Inj Date: 23-FEB-2012 15:37

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.318	0.110	J
2.	67-64-1	Acetone	4.256	0.0613	NJ
3.	75-09-2	Methylene Chloride	4.654	0.0904	NJ
4.	62237-99-4	Decane, 2,2,7-trimethyl-	14.441	7.46	NJ
5.	17301-30-3	Undecane, 3,8-dimethyl-	14.613	31.2	NJ
6.	31081-17-1	Nonane, 2-methyl-5-propyl-	14.904	11.8	NJ
7.		Unknown	15.076	54.3	J
8.		Unknown	15.367	31.4	J
9.		Unknown	15.622	20.7	J
10.	13287-21-3	Tridecane, 6-methyl-	15.723	13.0	NJ
11.		Unknown	15.972	6.38	J
12.	62237-97-2	Decane, 2,2,6-trimethyl-	16.103	4.31	NJ

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Report Date: 24-Feb-2012 08:09

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Lab Smp Id: 5058707003
Inj Date : 23-FEB-2012 15:37
Operator : CJR Inst ID: 10airB.i
Smp Info : 5058707003, 1.44x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 8
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	COMPOUND	RT	AREA	AMOUNT
20	1,1-Dichloroethane	5.307	2698122	0.013
$ 66	1,4-dichlorobenzene-d4	14.269	25806537	10.031

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.318	16108501	0.07658236	0.110	0		0	20
Acetone				CAS #: 67-64-1			
4.256	8948662	0.04254335	0.0613	86	NIST05.L	210	20
Methylene Chloride				CAS #: 75-09-2			
4.654	13200458	0.06275706	0.0904	94	NIST05.L	1497	20
Decane, 2,2,7-trimethyl-				CAS #: 62237-99-4			
14.441	13334845	5.18319788	7.46	72	NIST05.L	46155	66
Undecane, 3,8-dimethyl-				CAS #: 17301-30-3			
14.613	55768091	21.6768205	31.2	72	NIST05.L	46122	66

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D
Report Date: 24-Feb-2012 08:09

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
14.904	21178218	8.23188344	11.8	72	NIST05.L	46167	66
Nonane, 2-methyl-5-propyl-				CAS #: 31081-17-1			
15.076	96943958	37.6817053	54.3	0		0	66
Unknown				CAS #:			
15.367	56078287	21.7973926	31.4	0		0	66
Unknown				CAS #:			
15.622	36986090	14.3763365	20.7	0		0	66
Unknown				CAS #:			
15.723	23288381	9.05209486	13.0	72	NIST05.L	55987	66
Tridecane, 6-methyl-				CAS #: 13287-21-3			
15.972	11401589	4.43174919	6.38	0		0	66
Unknown				CAS #:			
16.103	7694003	2.99062643	4.31	78	NIST05.L	46154	66
Decane, 2,2,6-trimethyl-				CAS #: 62237-97-2			

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

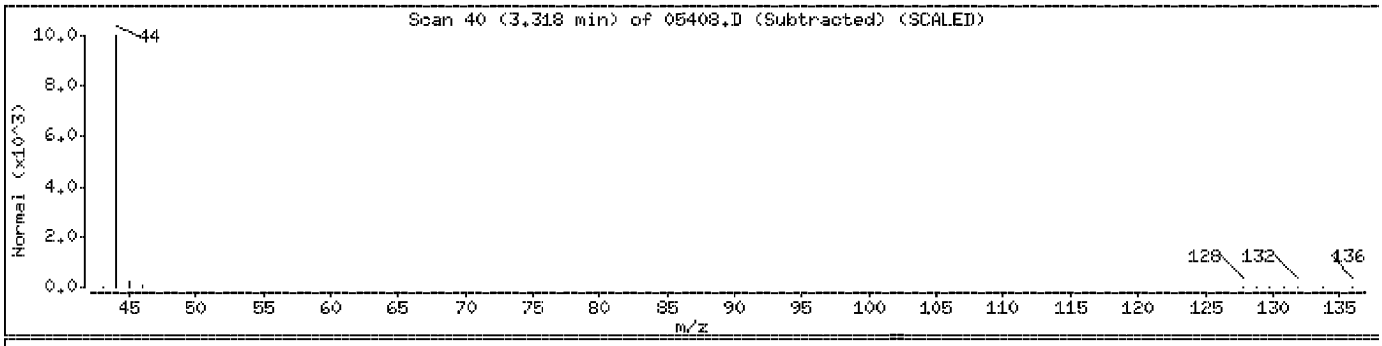
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

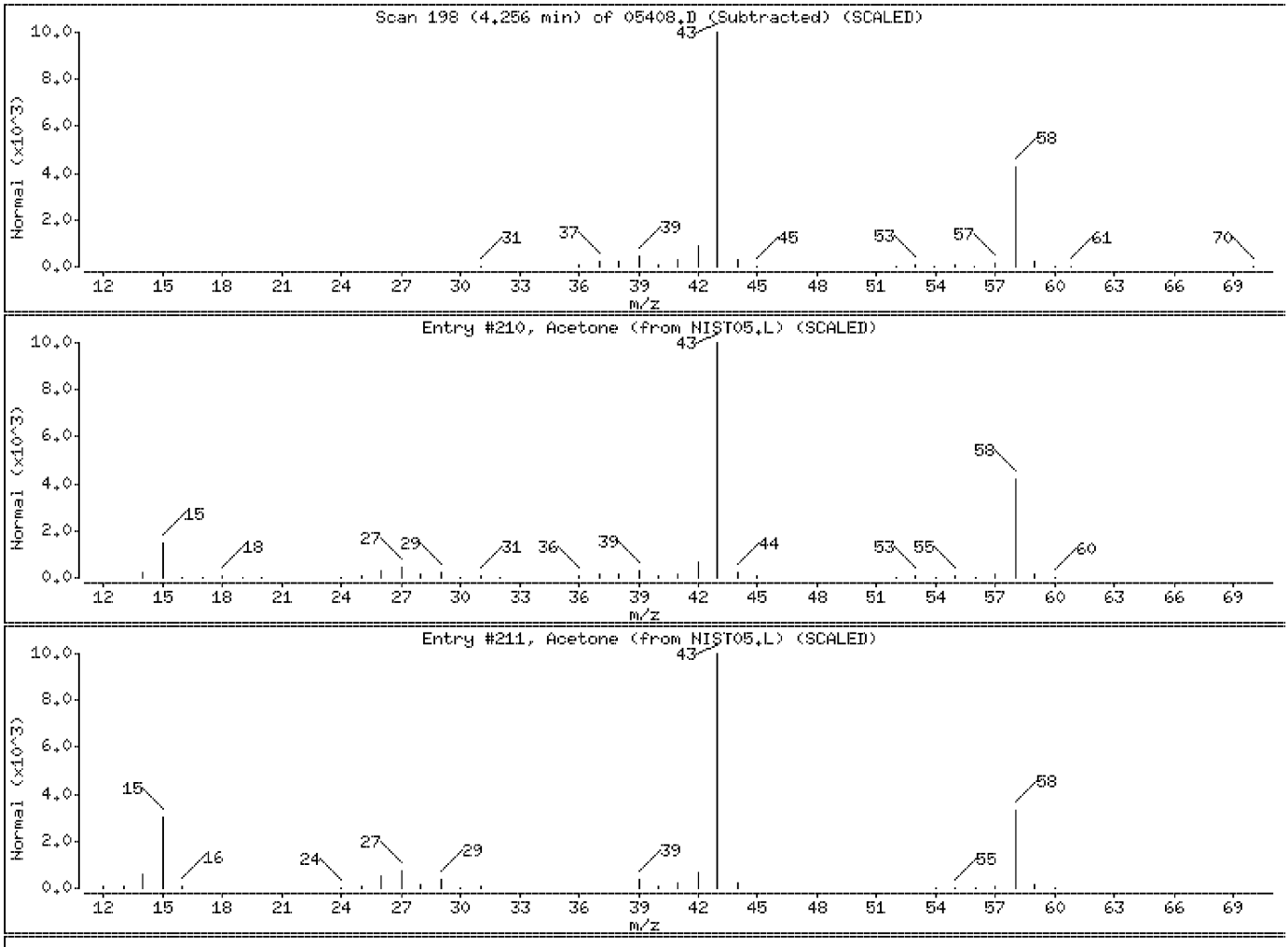
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetone	67-64-1	NIST05.L	210	86	C3H6O	58
Acetone	67-64-1	NIST05.L	211	78	C3H6O	58



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

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Instrument: 10airB.i

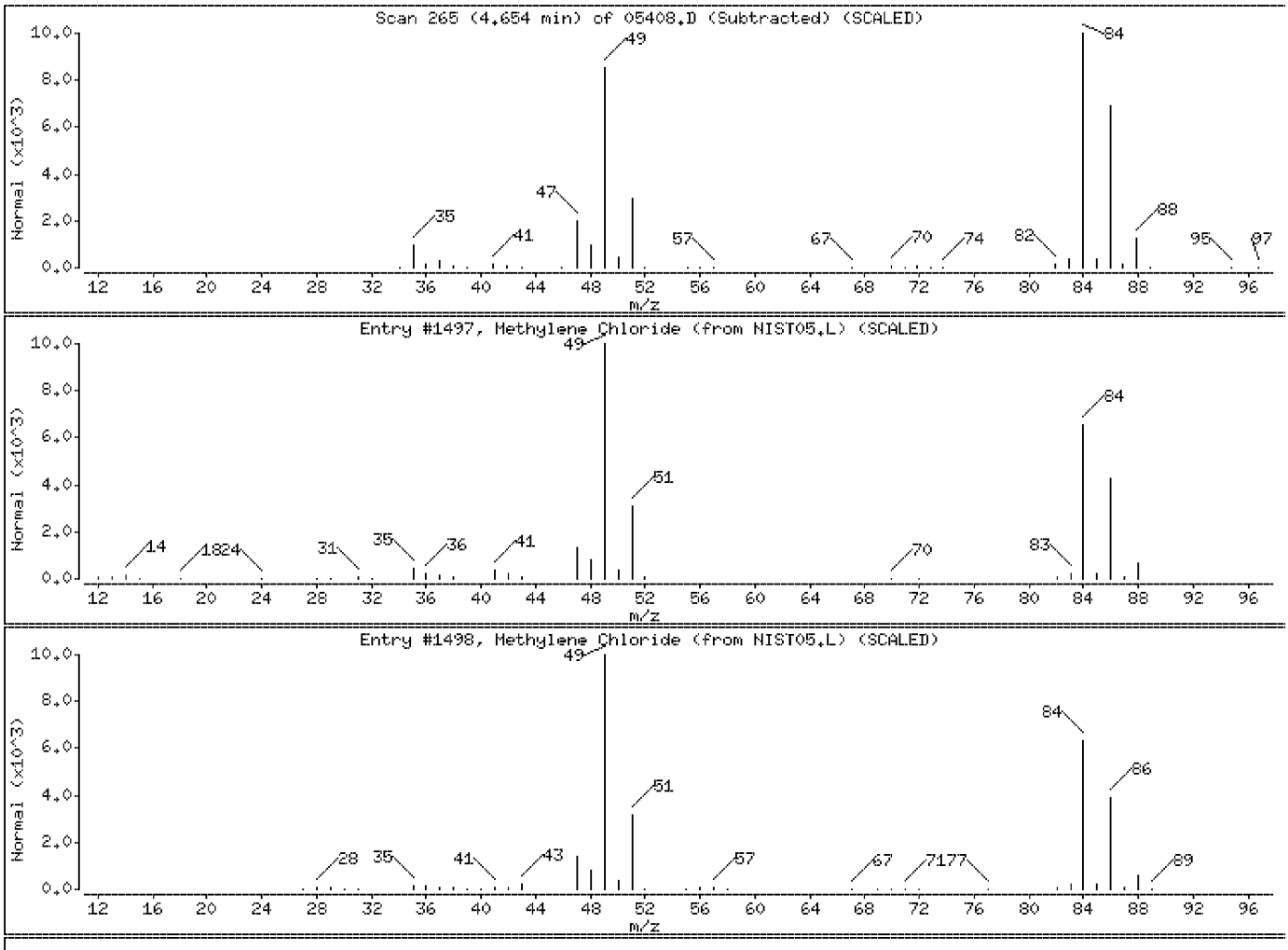
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methylene Chloride	75-09-2	NIST05.L	1497	94	CH2Cl2	84
Methylene Chloride	75-09-2	NIST05.L	1498	91	CH2Cl2	84



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

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Instrument: 10airB.i

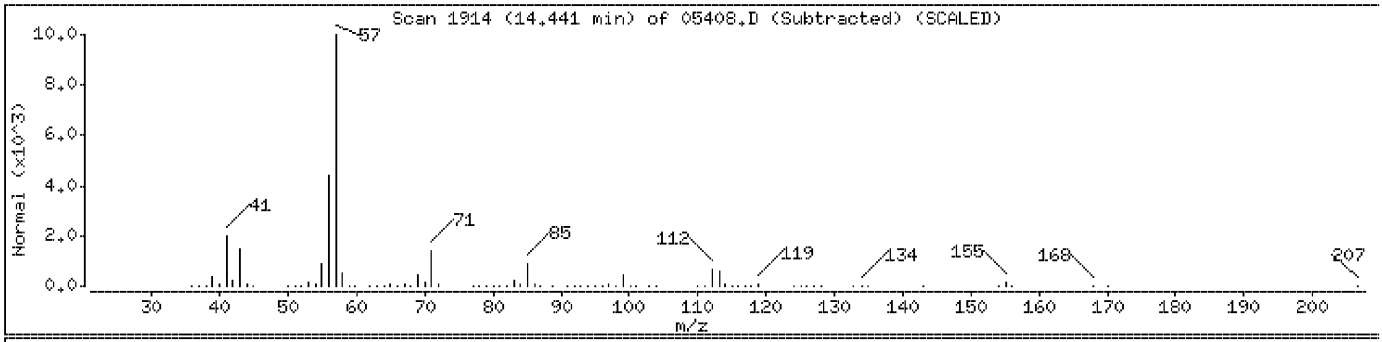
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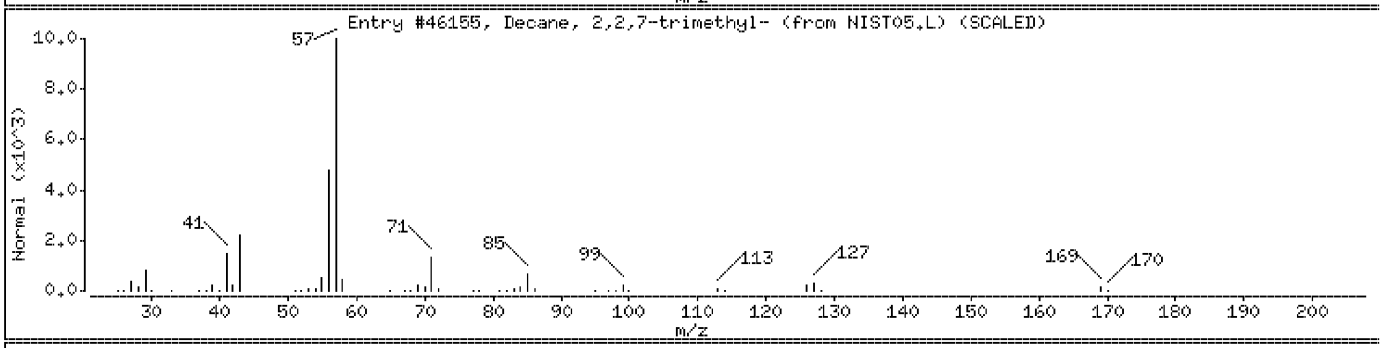
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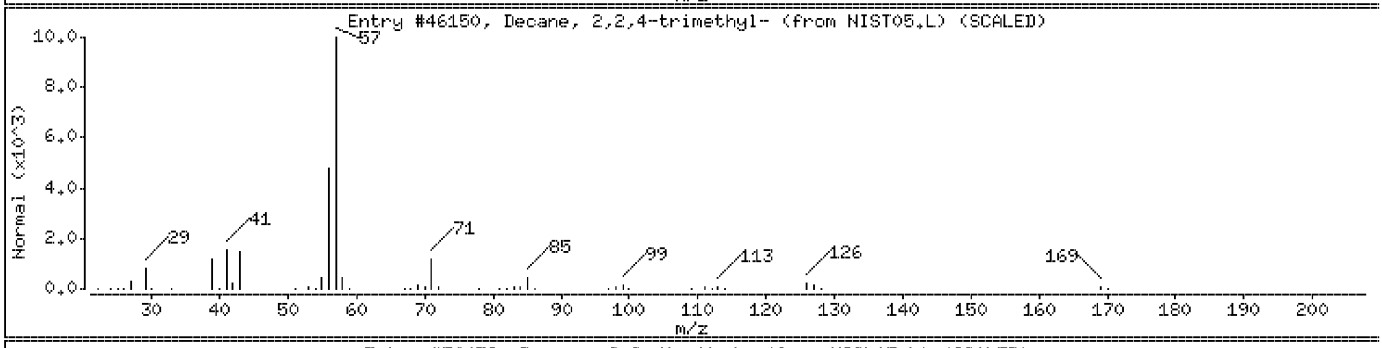
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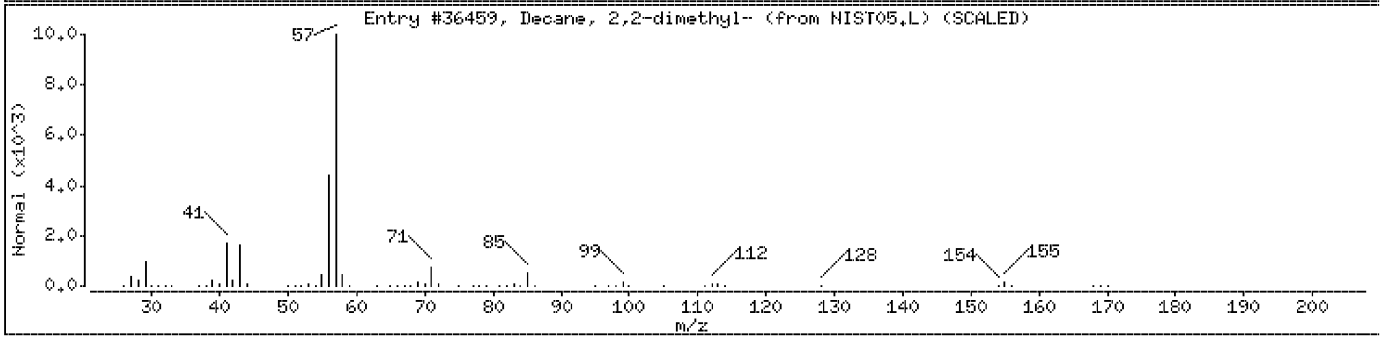
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 2,2,7-trimethyl-	62237-99-4	NIST05.L	46155	72	C13H28	184
Decane, 2,2,4-trimethyl-	62237-98-3	NIST05.L	46150	72	C13H28	184
Decane, 2,2-dimethyl-	17302-37-3	NIST05.L	36459	72	C12H26	170









Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

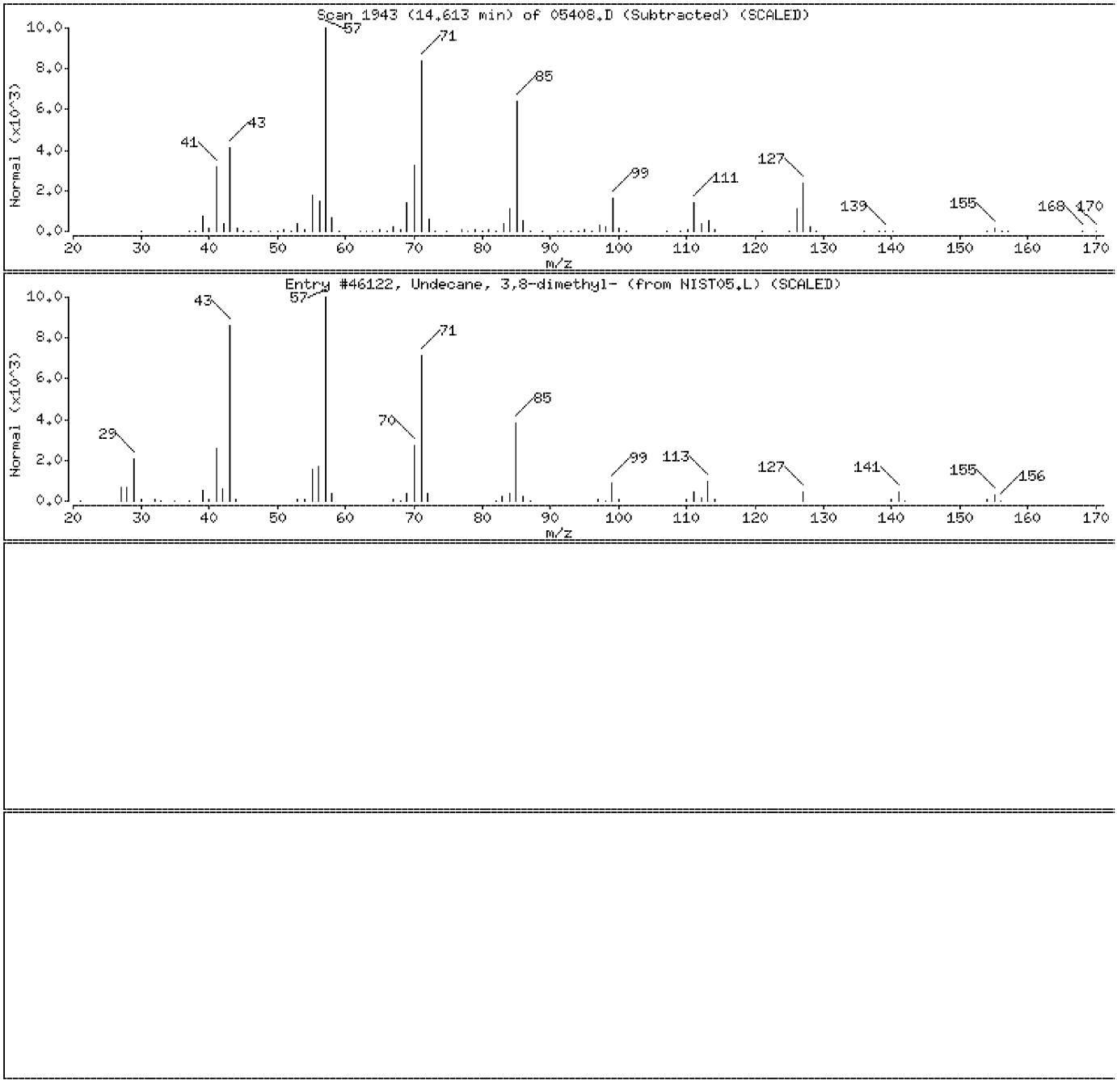
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane, 3,8-dimethyl-	17301-30-3	NIST05.L	46122	72	C13H28	184



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

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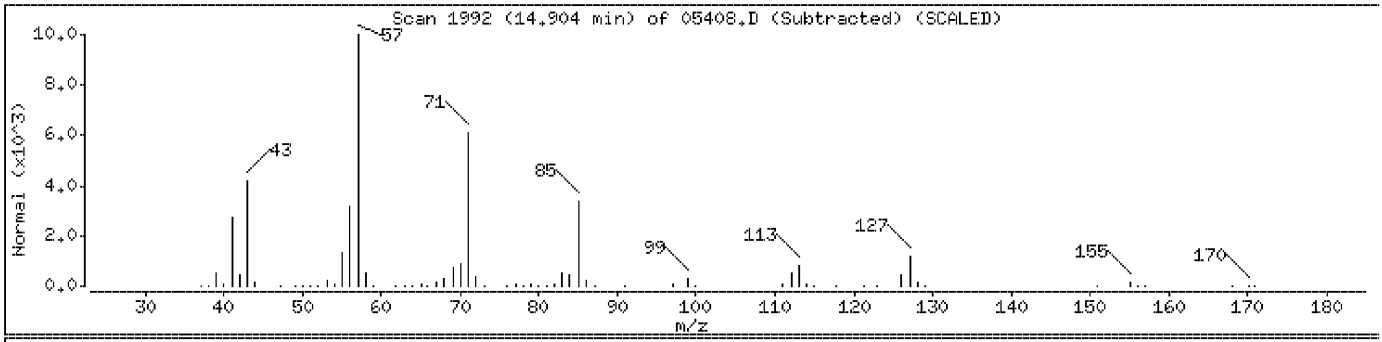
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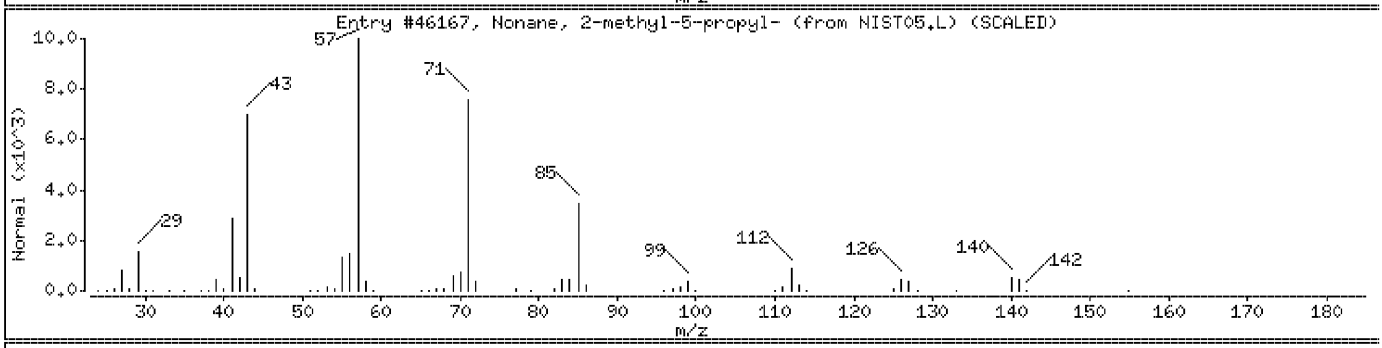
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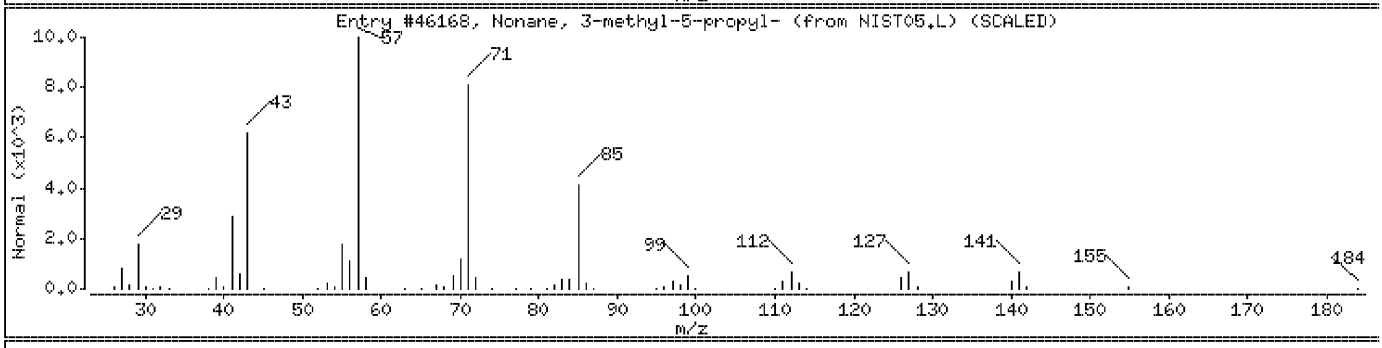
Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 2-methyl-5-propyl-	31081-17-1	NIST05.L	46167	72	C13H28	184
Nonane, 3-methyl-5-propyl-	31081-18-2	NIST05.L	46168	72	C13H28	184







Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

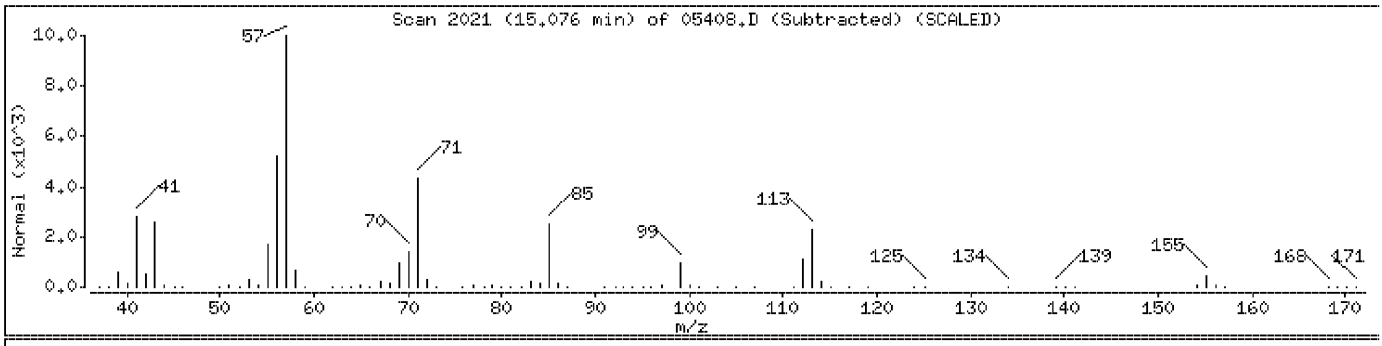
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

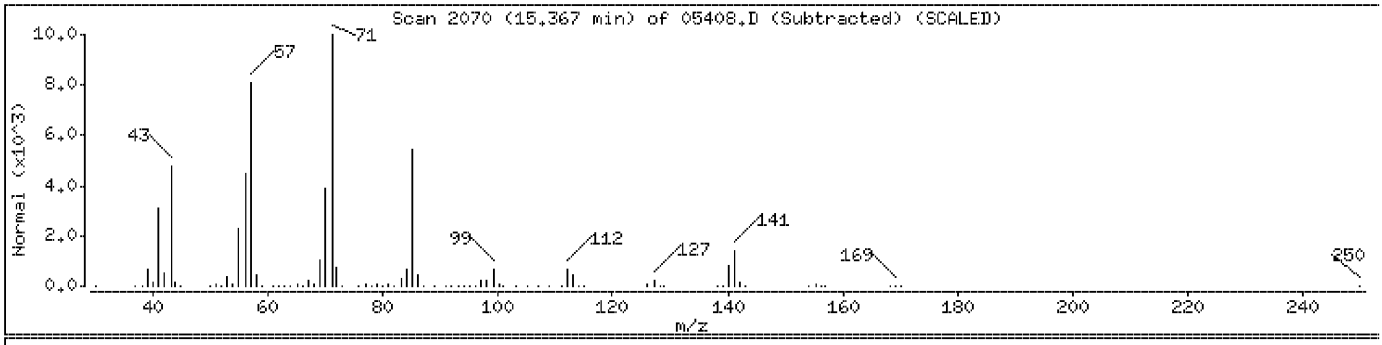
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

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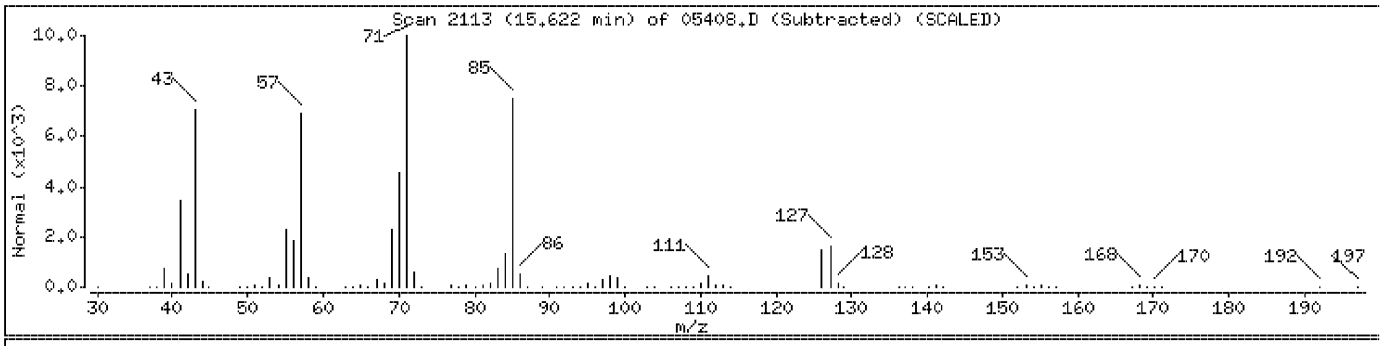
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

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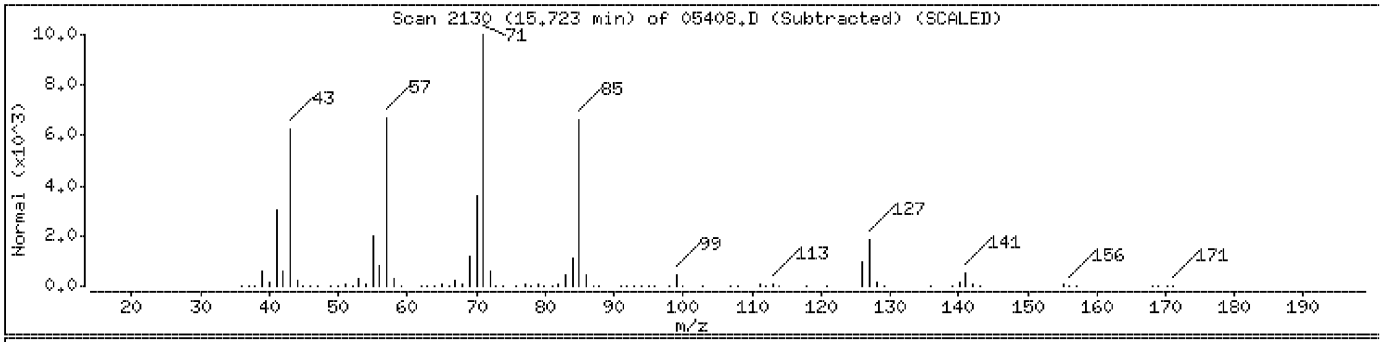
Sample Info: 5058707003, 1.44x

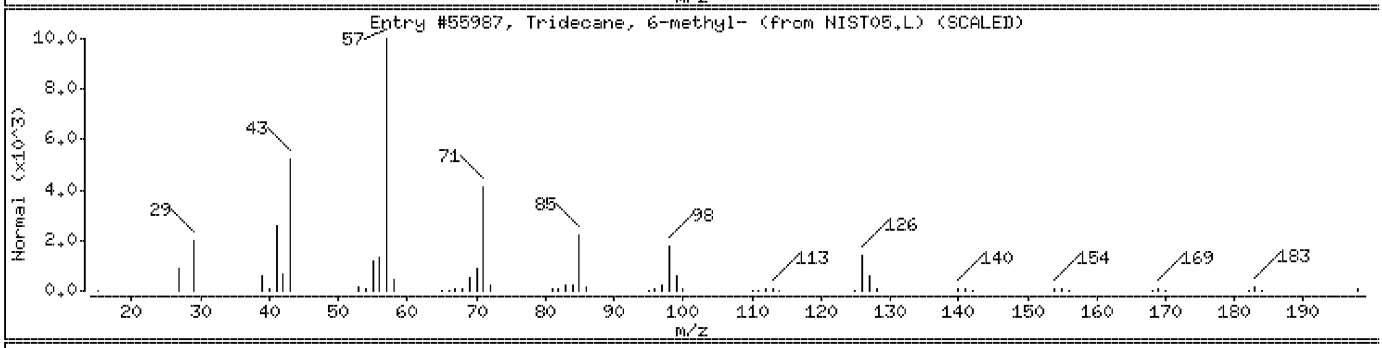
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane, 6-methyl-	13287-21-3	NIST05.L	55987	72	C14H30	198





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

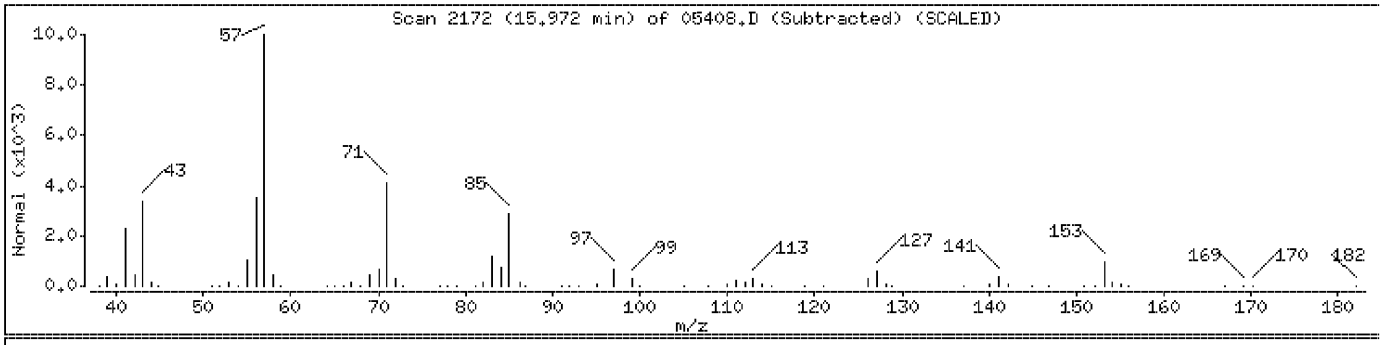
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05408.D

Date : 23-FEB-2012 15:37

Client ID:

Instrument: 10airB.i

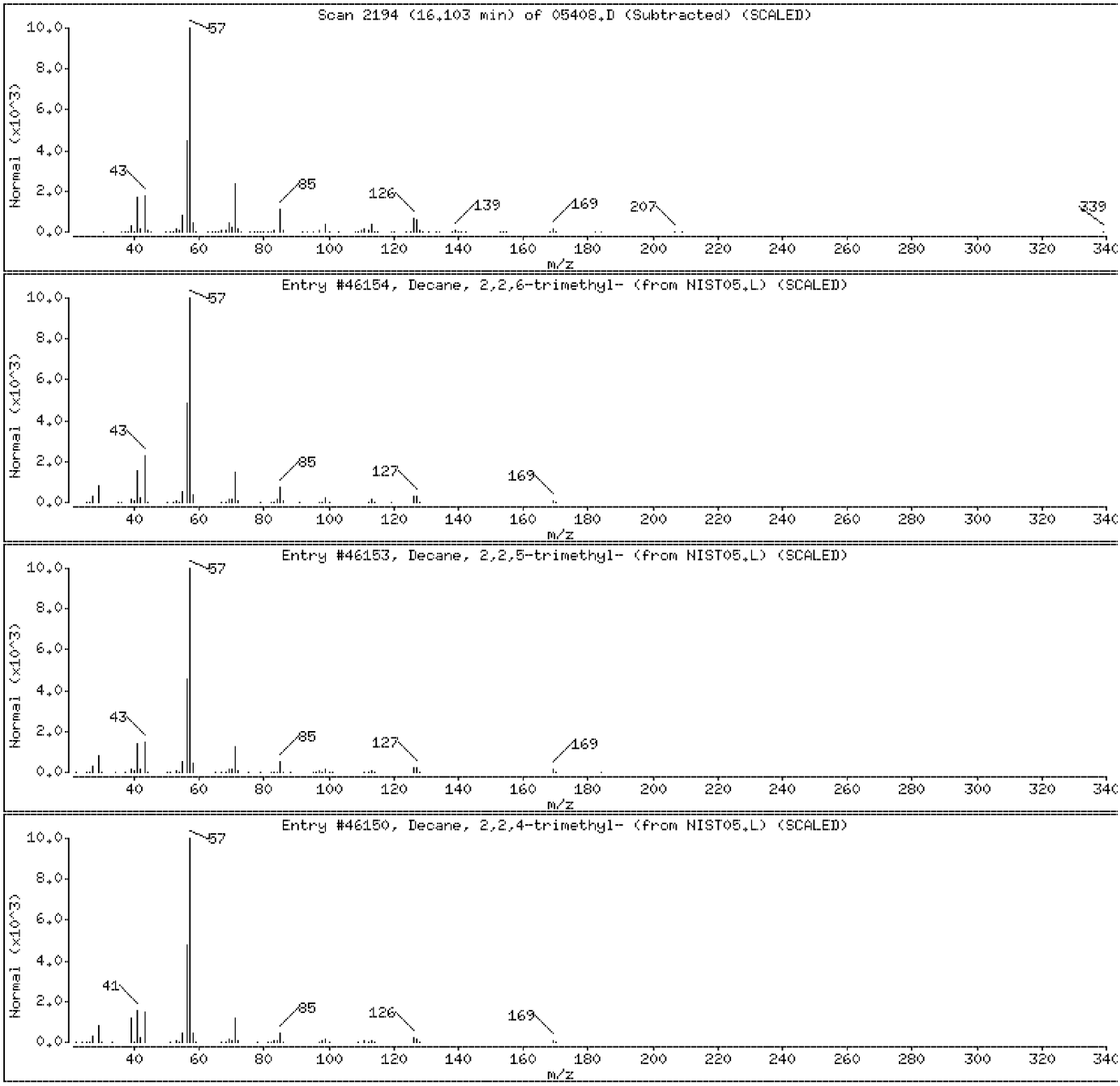
Sample Info: 5058707003, 1.44x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 2,2,6-trimethyl-	62237-97-2	NIST05.L	46154	78	C13H28	184
Decane, 2,2,5-trimethyl-	62237-96-1	NIST05.L	46153	72	C13H28	184
Decane, 2,2,4-trimethyl-	62237-98-3	NIST05.L	46150	72	C13H28	184



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Report Date: 24-Feb-2012 08:14

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Lab Smp Id: 5058707004
Inj Date : 23-FEB-2012 16:08
Operator : CJR Inst ID: 10airB.i
Smp Info : 5058707004, 1.34x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 9
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	5 Vinyl chloride	62	Compound Not Detected.					
	8 Chloroethane	64	Compound Not Detected.					
	13 1,1-Dichloroethene	61	Compound Not Detected.					
	17 trans-1,2-dichloroethene	96	Compound Not Detected.					
	18 Methyl Tert Butyl Ether	73	Compound Not Detected.					
	20 1,1-Dichloroethane	63	Compound Not Detected.					
$	21 Hexane-d14(S)	66	5.300	5.301	(0.785)	704111	9.34167	9.34
	24 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	29 1,1,1-Trichloroethane	97	6.244	6.250	(0.924)	7817	0.04831	0.0647(a)
	30 1,2-Dichloroethane	62	Compound Not Detected.					
	31 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	6.754	6.761	(1.000)	1799133	10.0000	
	38 Trichloroethene	130	7.217	7.224	(1.069)	648	0.00644	0.00863(aQ)
$	43 Toluene-d8 (S)	98	8.577	8.577	(1.270)	1560346	10.8688	10.9
	44 Toluene	91	8.666	8.672	(1.283)	90393	0.36662	0.491
	49 Tetrachloroethene	166	9.675	9.681	(0.925)	25091	0.17514	0.235(a)
*	50 Chlorobenzene - d5	117	10.464	10.464	(1.000)	989305	10.0000	
	52 Ethyl Benzene	91	10.814	10.814	(1.033)	11253	0.04568	0.0612(a)
	53 m&p-Xylene	91	10.980	10.993	(1.049)	34139	0.16214	0.217(a)
	57 o-Xylene	91	11.568	11.574	(1.105)	15669	0.08585	0.115(a)
	60 N-Propylbenzene	91	Compound Not Detected.					
$	66 1,4-dichlorobenzene-d4 (S)	150	14.269	14.275	(1.364)	573211	9.08022	9.08

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Report Date: 24-Feb-2012 08:14

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Report Date: 24-Feb-2012 08:14

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 05409.D
Lab Smp Id: 5058707004
Analysis Type: VOA
Quant Type: ISTD
Operator: CJR
Method File: \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Misc Info: 14320

Calibration Date: 23-FEB-2012
Calibration Time: 11:29
Level: LOW
Sample Type: AIR

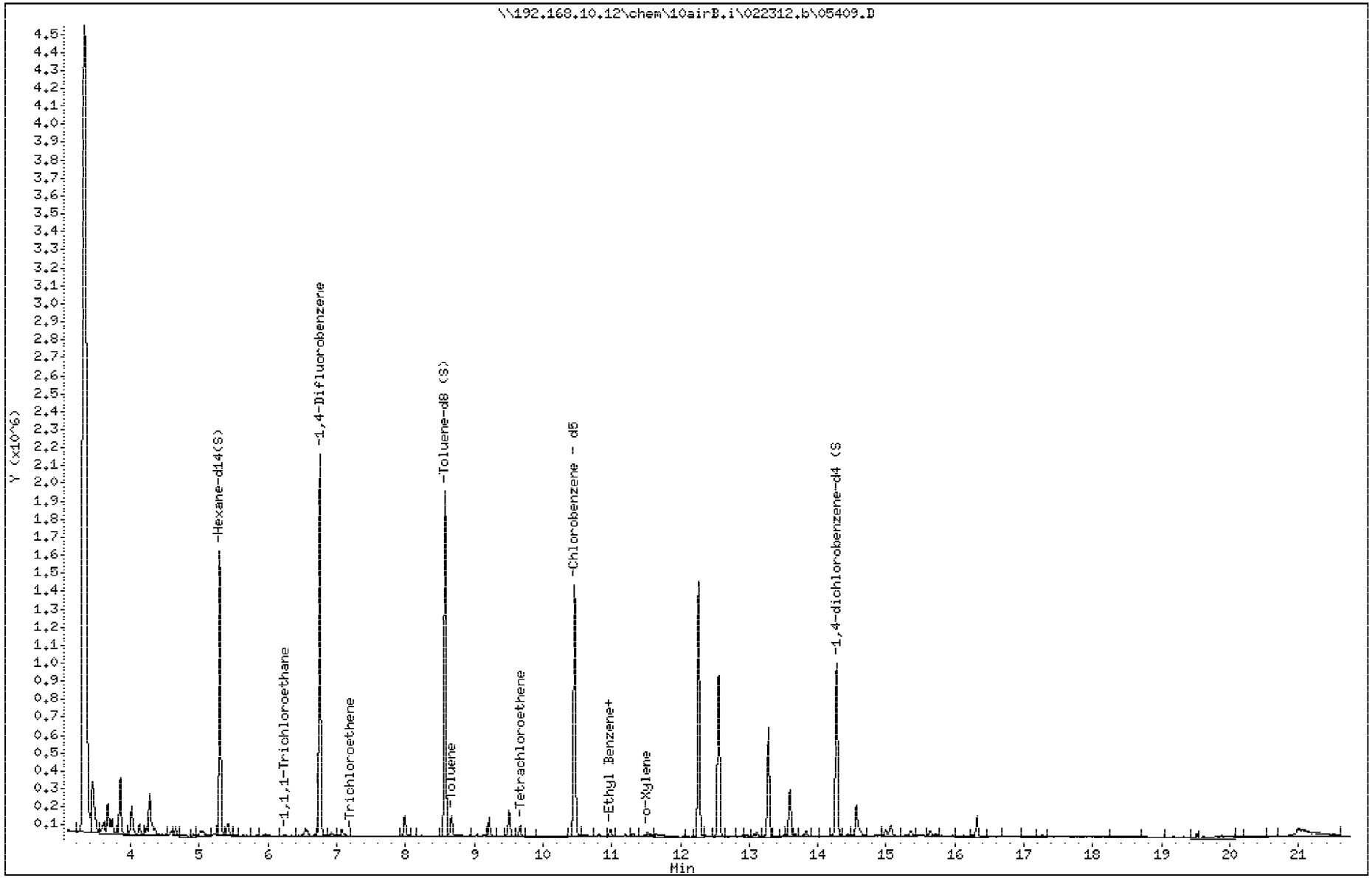
Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	1711153	1026692	2395614	1799133	5.14
50 Chlorobenzene - d	907290	544374	1270206	989305	9.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
34 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
50 Chlorobenzene - d	10.46	10.13	10.79	10.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Date : 23-FEB-2012 16:08
Client ID:
Instrument: 10airB.i
Sample Info: 5058707004, 1.34x
Operator: CJR
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

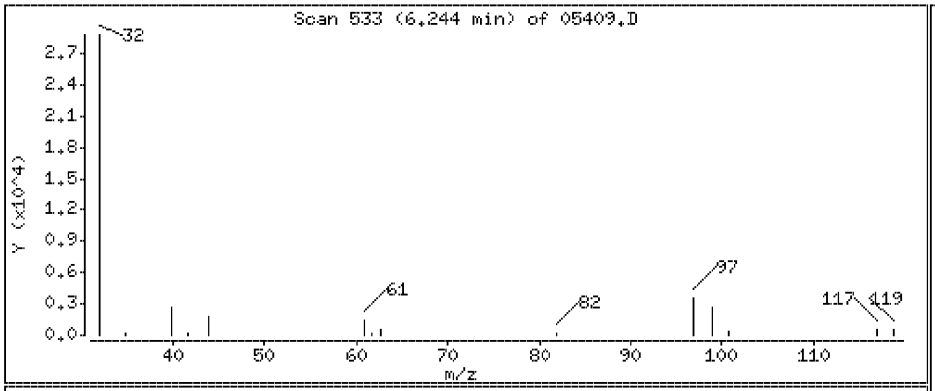
Operator: CJR

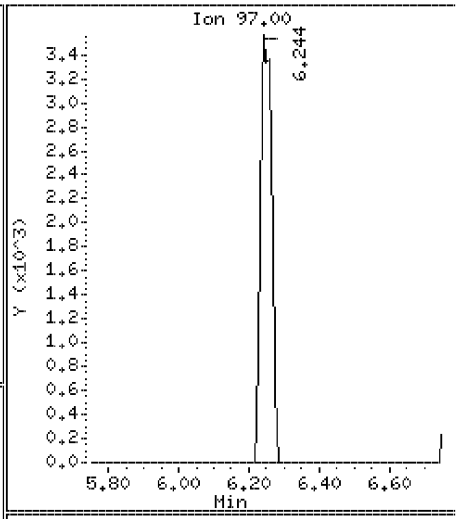
Column phase: J&W DB-5

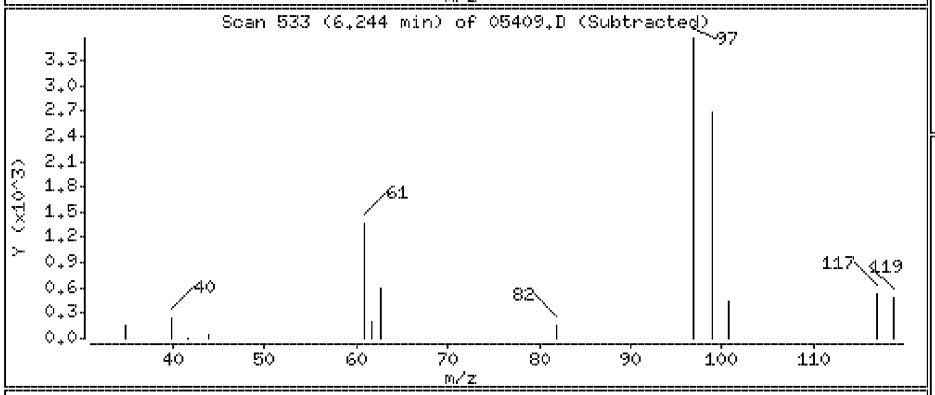
Column diameter: 0.32

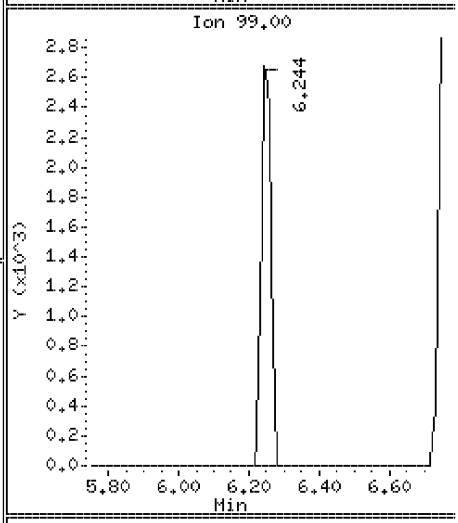
29 1,1,1-Trichloroethane

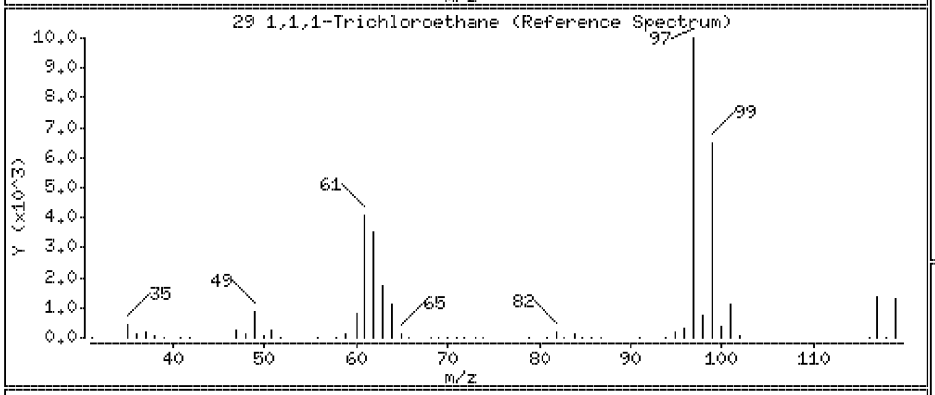
Concentration: 0.0647 ppbv

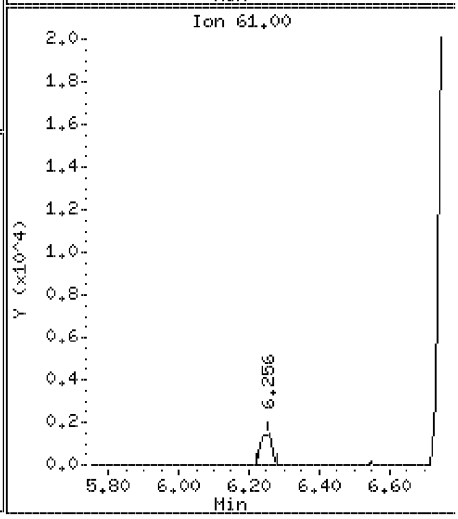


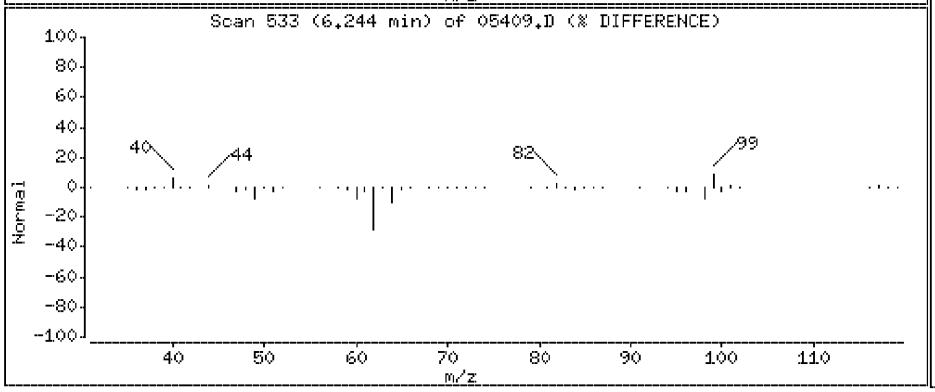












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

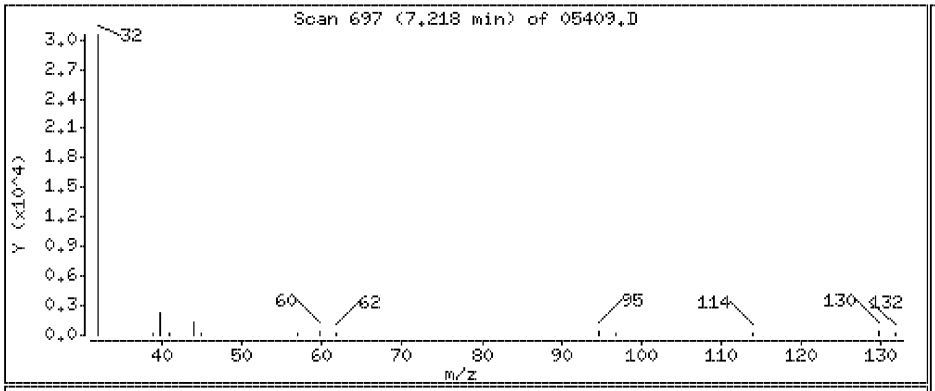
Operator: CJR

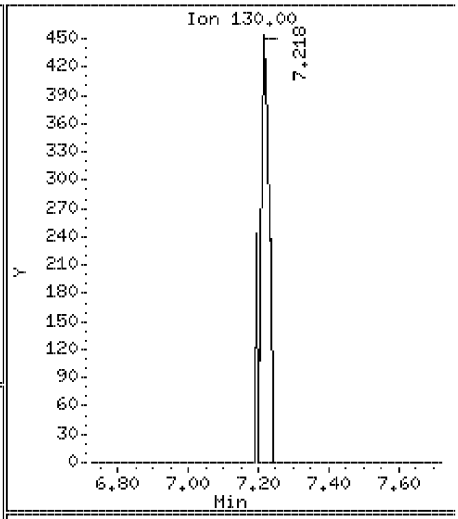
Column phase: J&W DB-5

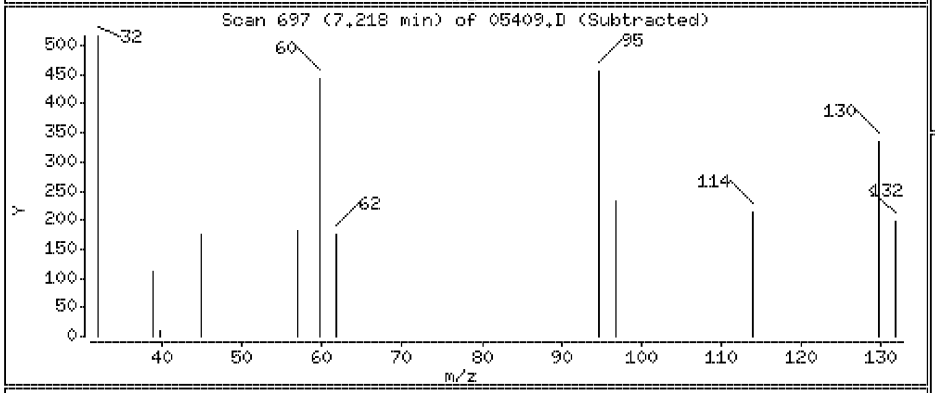
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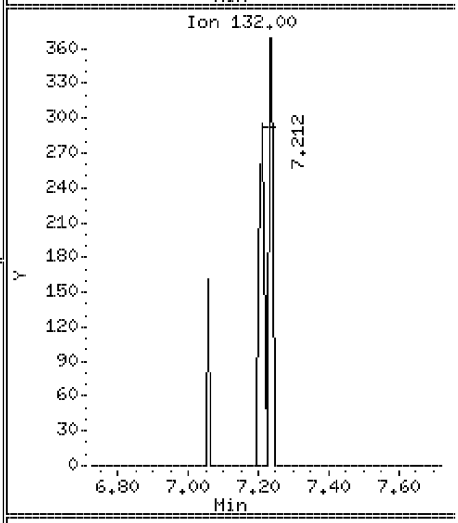
38 Trichloroethene

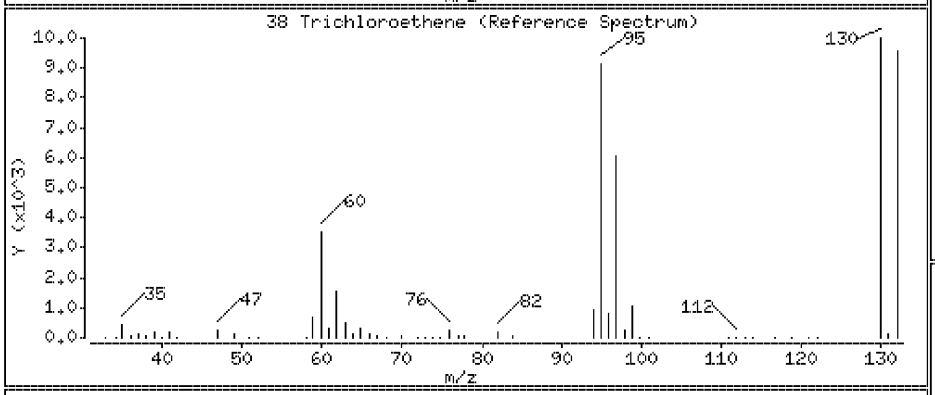
Concentration: 0.00863 ppbv

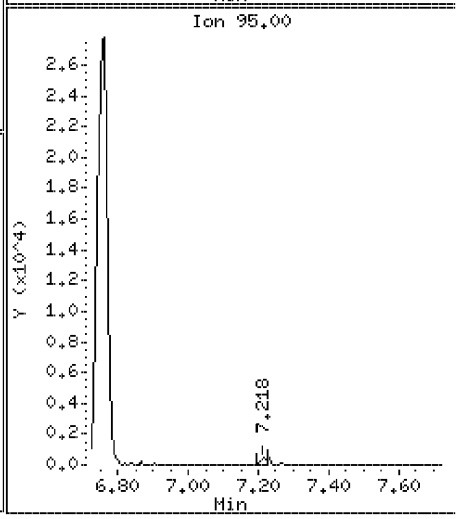


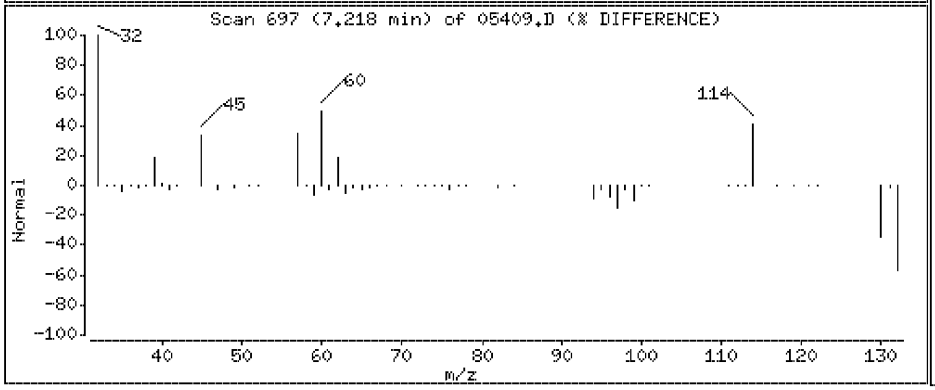












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

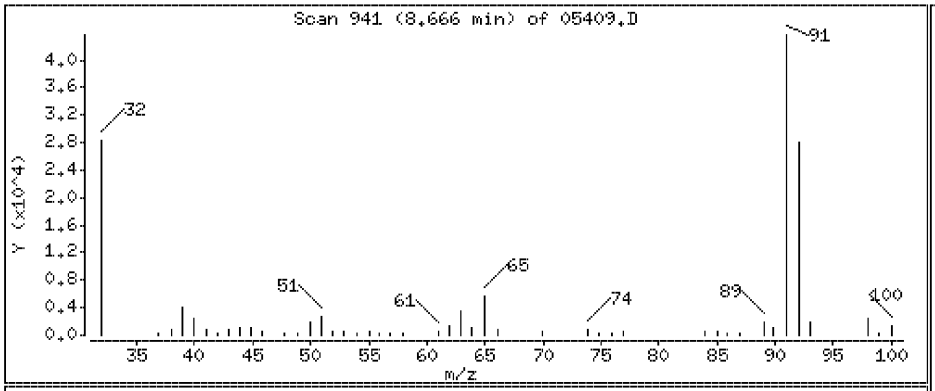
Operator: CJR

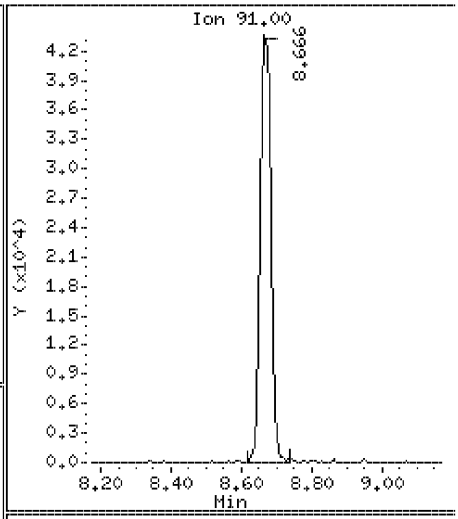
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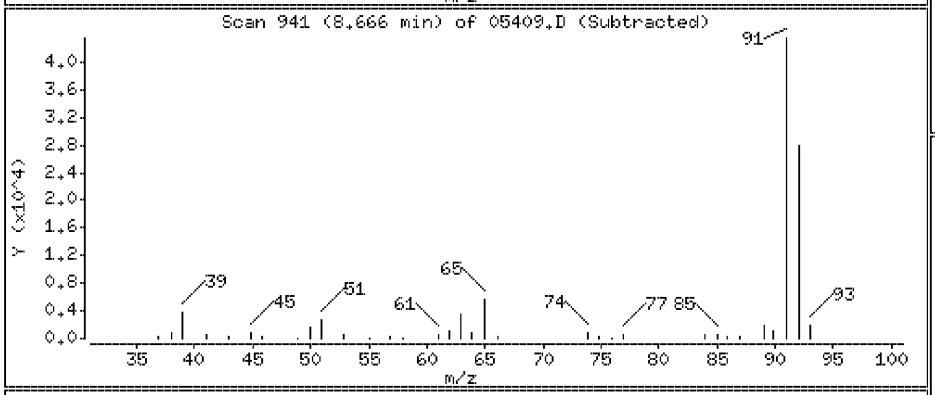
Column diameter: 0.32

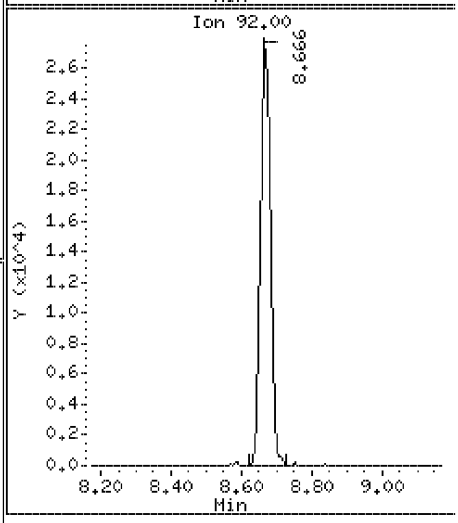
44 Toluene

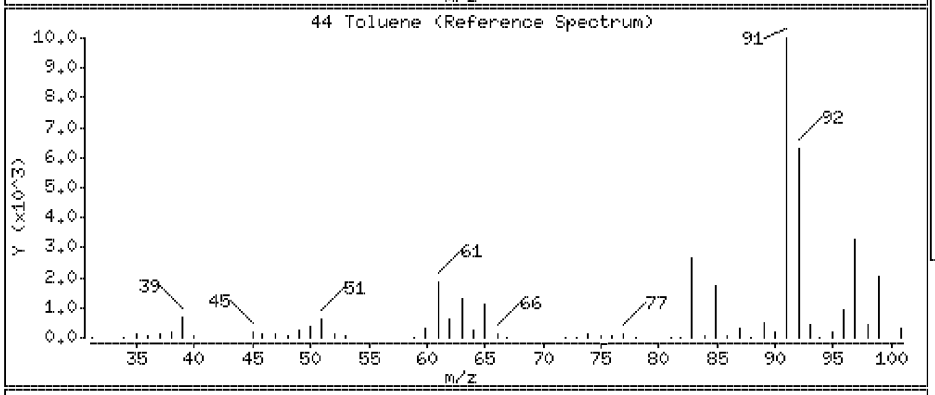
Concentration: 0.491 ppbv

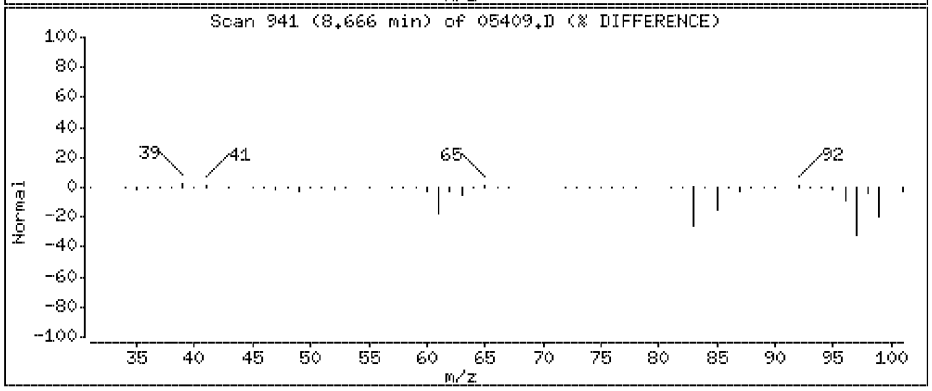












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

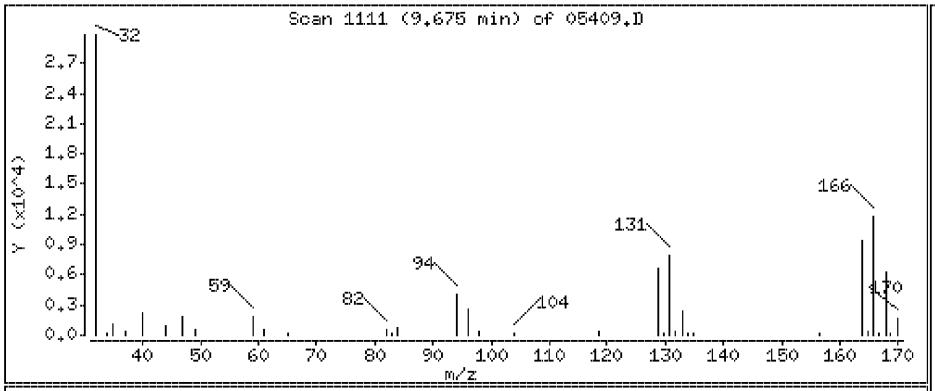
Operator: CJR

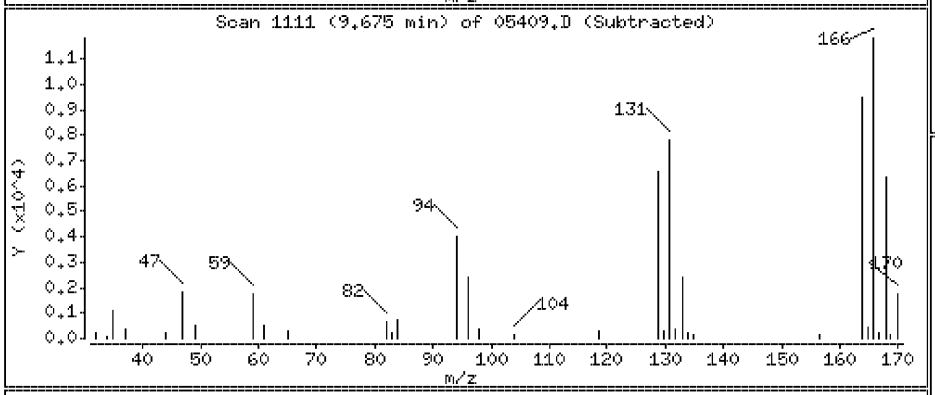
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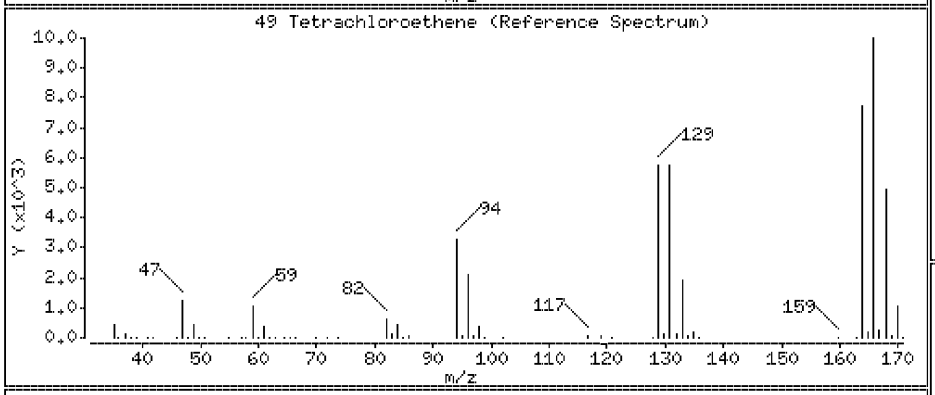
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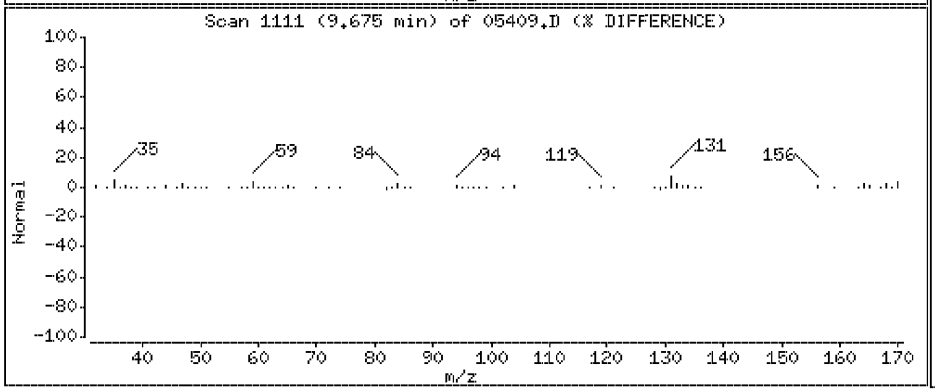
49 Tetrachloroethene

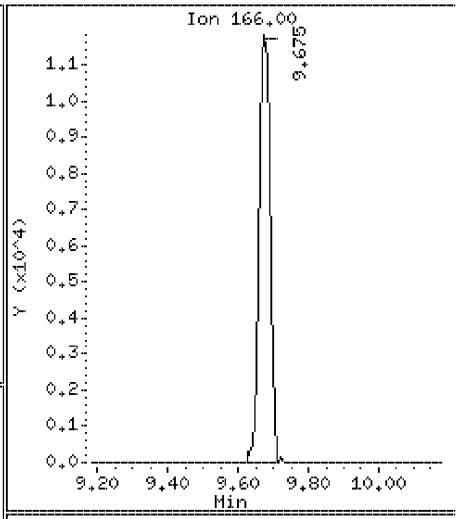
Concentration: 0.235 ppbv

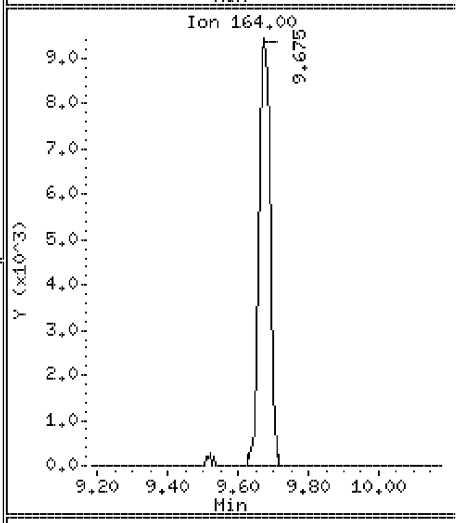


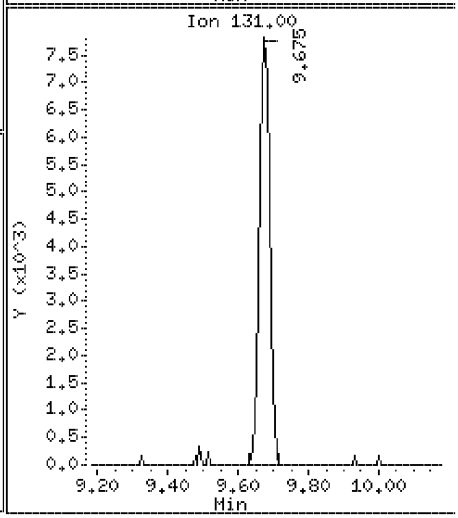












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

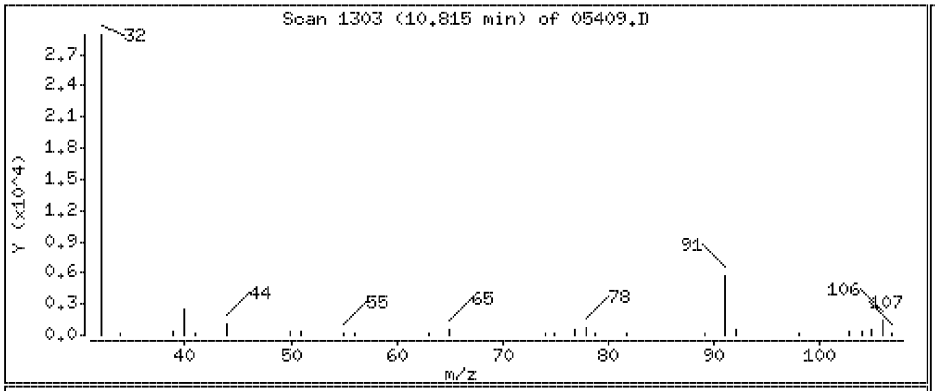
Operator: CJR

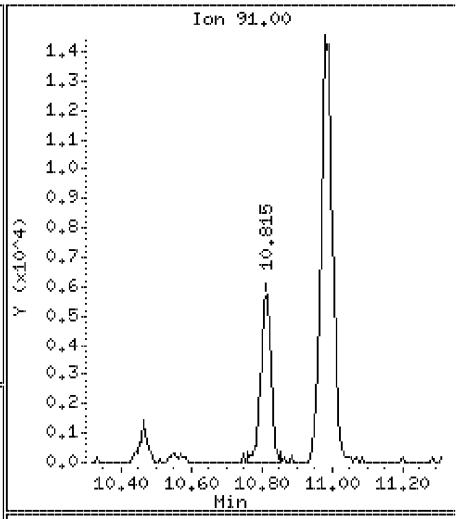
Column phase: J&W DB-5

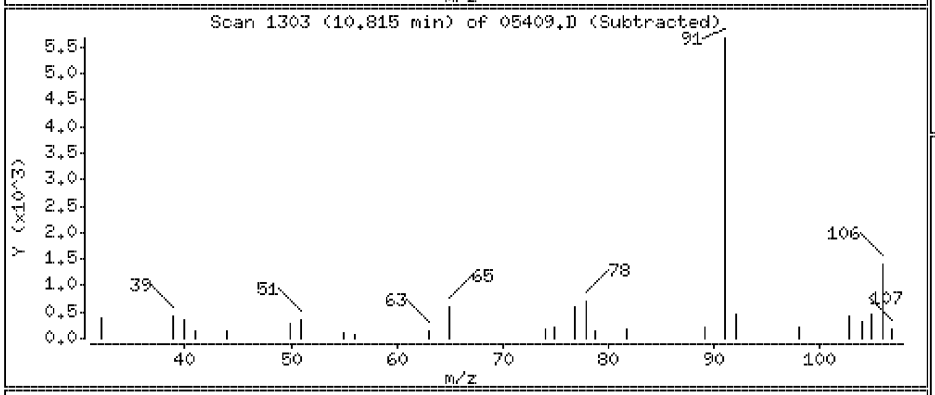
Column diameter: 0.32

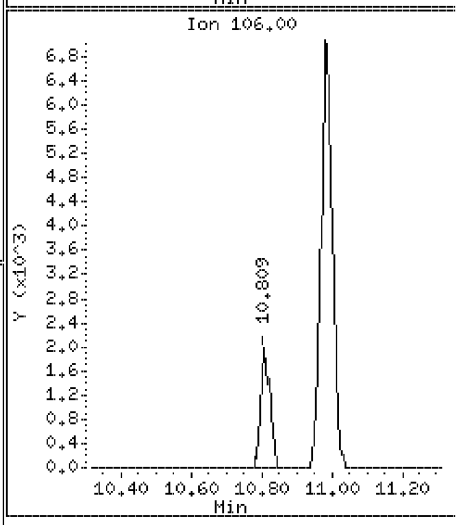
52 Ethyl Benzene

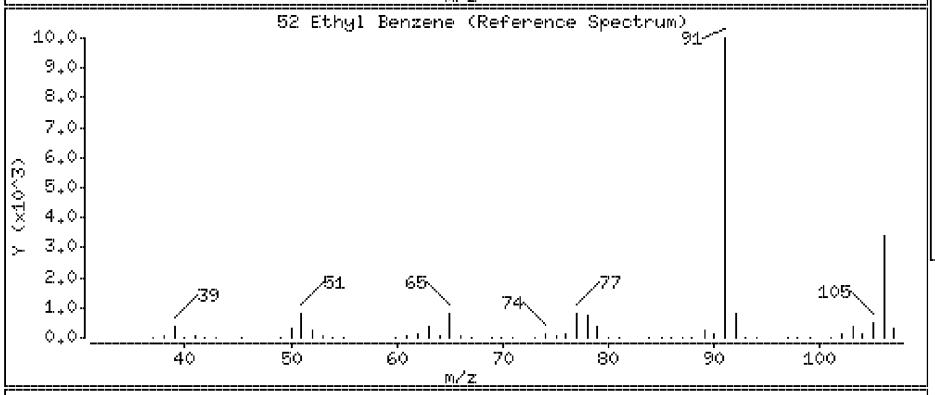
Concentration: 0.0612 ppbv

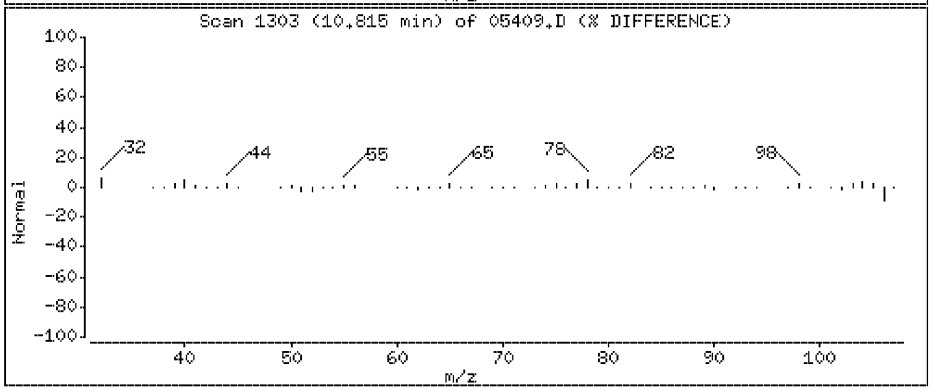












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

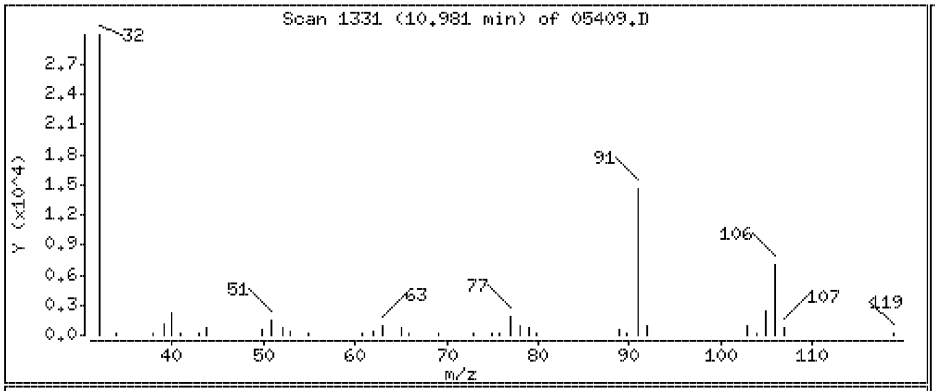
Operator: CJR

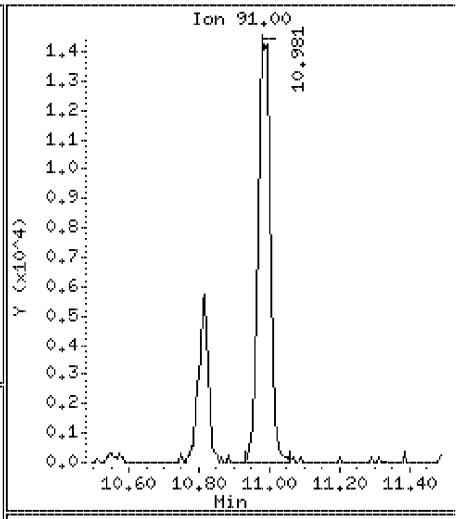
Column phase: J&W DB-5

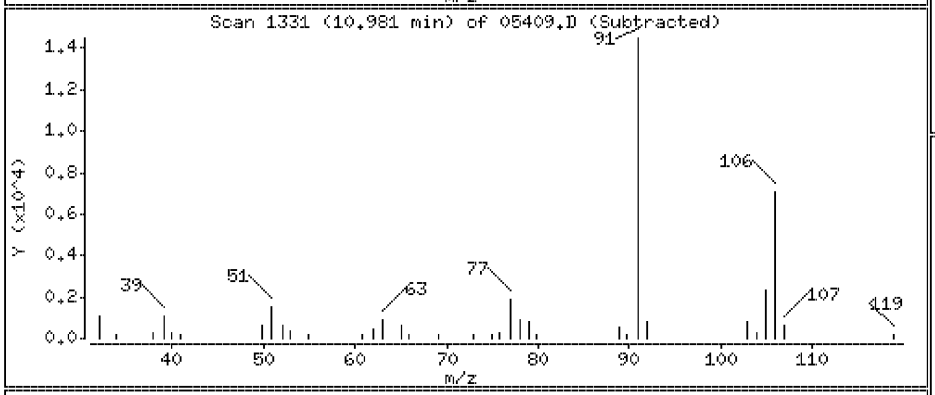
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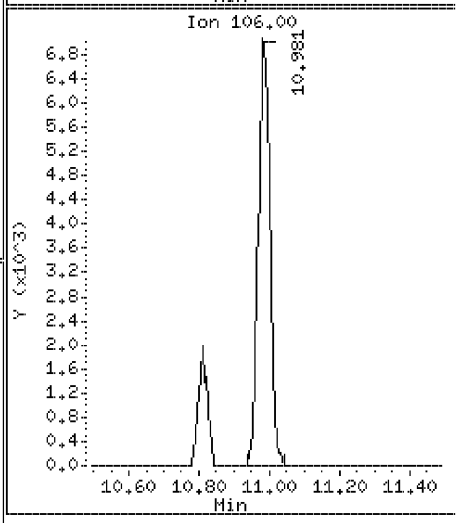
53 m&p-Xylene

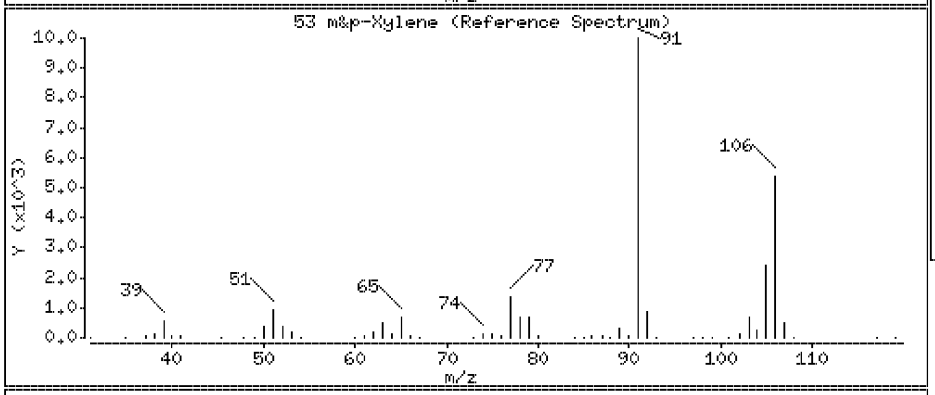
Concentration: 0.217 ppbv

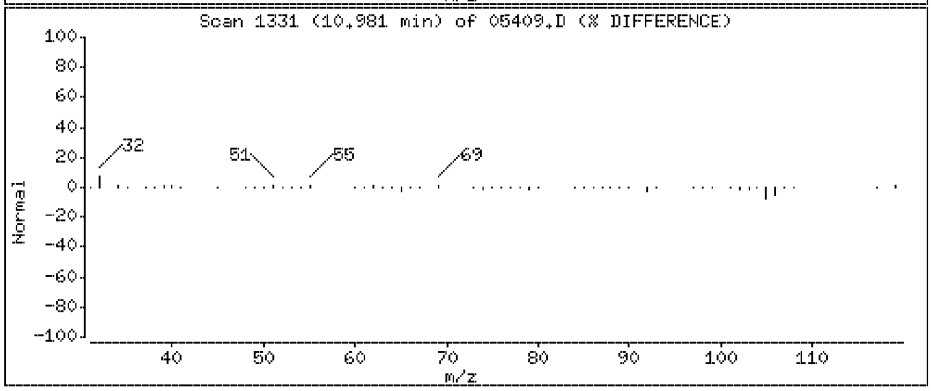












Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

Sample Info: 5058707004, 1.34x

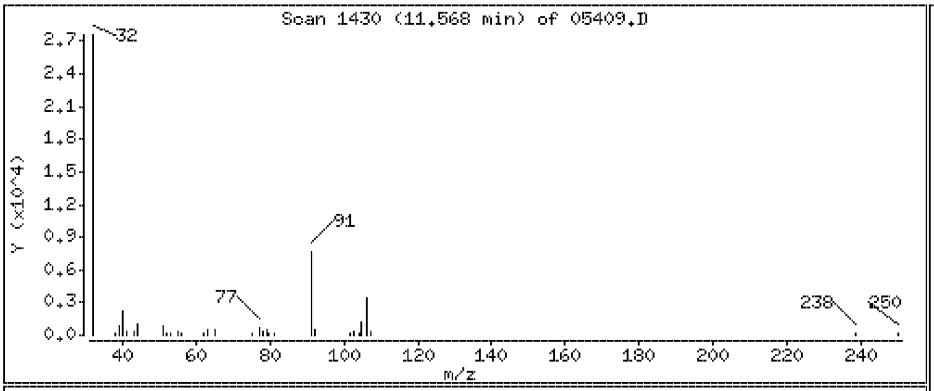
Operator: CJR

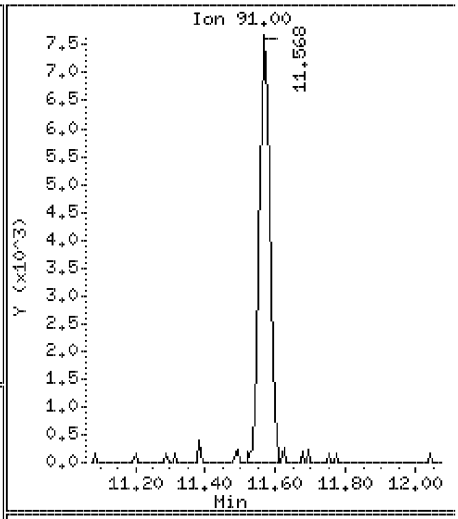
Column phase: J&W DB-5

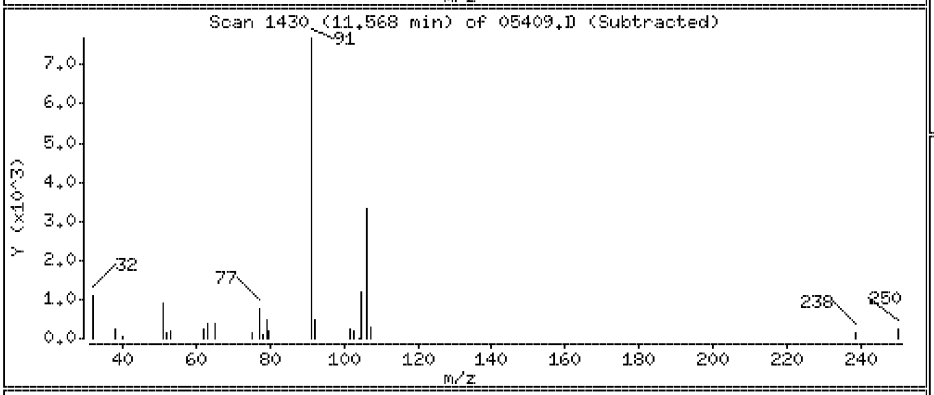
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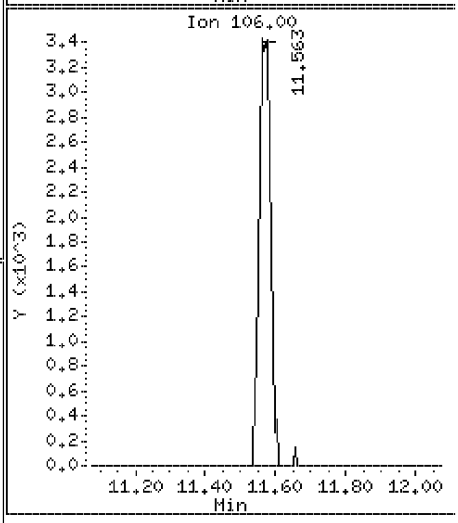
57 o-Xylene

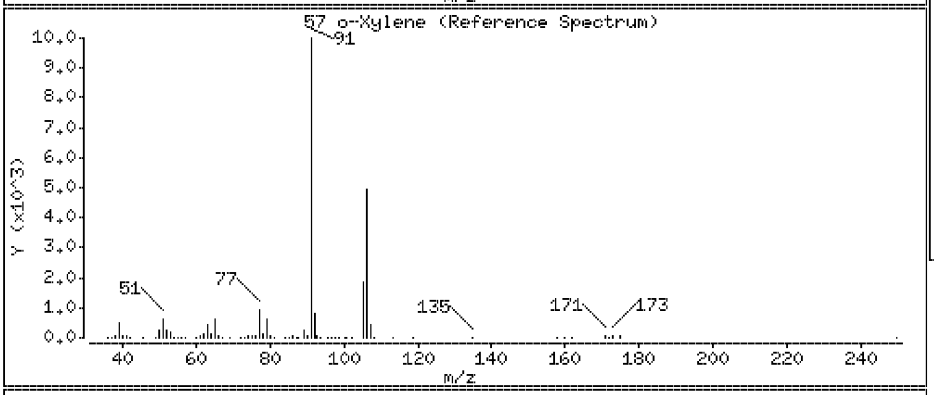
Concentration: 0.115 ppbv

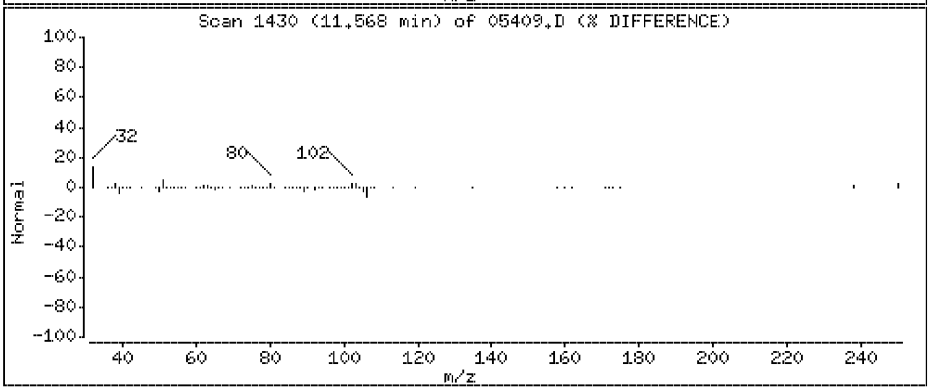












Data File: \\192.168.10.12\chem\10airB.i\022312.b/05409.D
Injection Date: 23-FEB-2012 16:08
Instrument: 10airB.i
Lab Sample ID: 5058707004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Report Date: 24-Feb-2012 08:14

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Client SDG: 022312.b
Lab Smp Id: 5058707004
Operator : CJR
Sample Date:
Sample Location:
Sample Point:
Sample Matrix: AIR
Date Received:
Analysis Type: VOA
Level: LOW
Inj Date: 23-FEB-2012 16:08

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.324	73.2	J
2.	75-45-6	Difluorochloromethane	3.443	4.01	NJ
3.		Unknown	3.674	3.17	J
4.		Unknown	3.853	2.95	J
5.	64-17-5	Ethyl alcohol	4.019	2.19	NJ
6.	67-64-1	Acetone	4.280	3.29	NJ
7.	1072-85-1	Benzene, 1-bromo-2-fluoro-	12.263	2.81	NJ
8.	80-56-8	.alpha.-Pinene	12.560	1.83	NJ
9.	556-67-2	Cyclotetrasiloxane, octamet	13.278	7.81	NJ
10.	18172-67-3	Bicyclo[3.1.1]heptane, 6,6-	13.592	3.22	NJ
11.	5989-27-5	D-Limonene	14.566	3.05	NJ
12.		Unknown	21.000	5.34	J

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Report Date: 24-Feb-2012 08:14

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Lab Smp Id: 5058707004
Inj Date : 23-FEB-2012 16:08
Operator : CJR Inst ID: 10airB.i
Smp Info : 5058707004, 1.34x
Misc Info : 14320
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\022312.b\TO15_045-12.m
Meth Date : 23-Feb-2012 13:32 rprovost Quant Type: ISTD
Cal Date : 14-FEB-2012 17:08 Cal File: 04508.D
Als bottle: 9
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	COMPOUND	RT	AREA	AMOUNT
$ 21	Hexane-d14(S)	5.301	2888748	9.342
57	o-Xylene	11.568	122043	0.086
$ 66	1,4-dichlorobenzene-d4	14.269	2076108	9.080

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.324	16900359	54.6526070	73.2	0		0	21
Difluorochloromethane				CAS #: 75-45-6			
3.443	925146	2.99175033	4.01	94	NIST05.L	1809	21
Unknown				CAS #:			
3.674	732253	2.36796916	3.17	0		0	21
Unknown				CAS #:			
3.853	680722	2.20132892	2.95	0		0	21

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D
Report Date: 24-Feb-2012 08:14

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Ethyl alcohol				CAS #: 64-17-5			
4.019	506507	1.63795045	2.19	83	NIST05.L	94	21
Acetone				CAS #: 67-64-1			
4.280	758379	2.45245691	3.29	86	NIST05.L	210	21
Benzene, 1-bromo-2-fluoro-				CAS #: 1072-85-1			
12.263	2977650	2.09461069	2.81	95	NIST05.L	39153	57
.alpha.-Pinene				CAS #: 80-56-8			
12.560	1944972	1.36817965	1.83	97	NIST05.L	15178	57
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
13.278	1332424	5.82758854	7.81	90	NIST05.L	122479	66
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me				CAS #: 18172-67-3			
13.592	550211	2.40644463	3.22	96	NIST05.L	15390	66
D-Limonene				CAS #: 5989-27-5			
14.566	520772	2.27768725	3.05	95	NIST05.L	15162	66
Unknown				CAS #:			
21.000	911204	3.98530934	5.34	0		0	66

Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

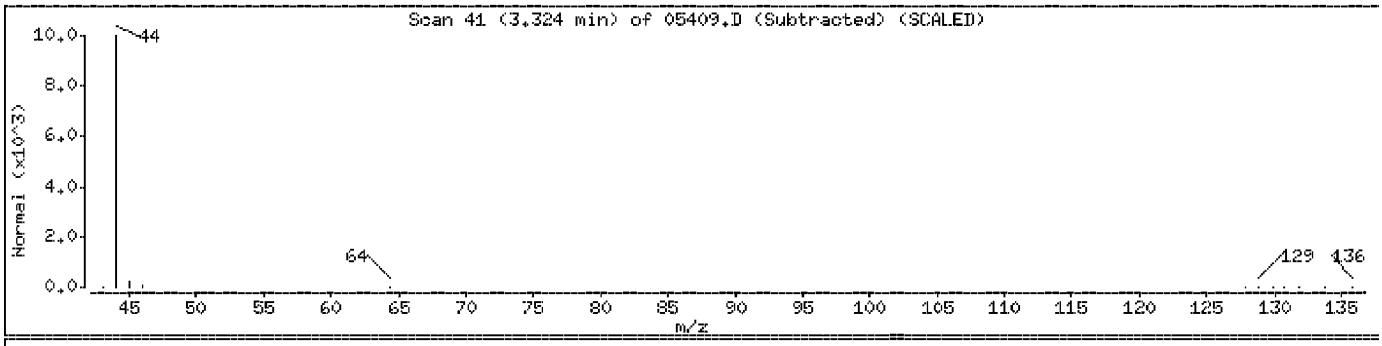
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

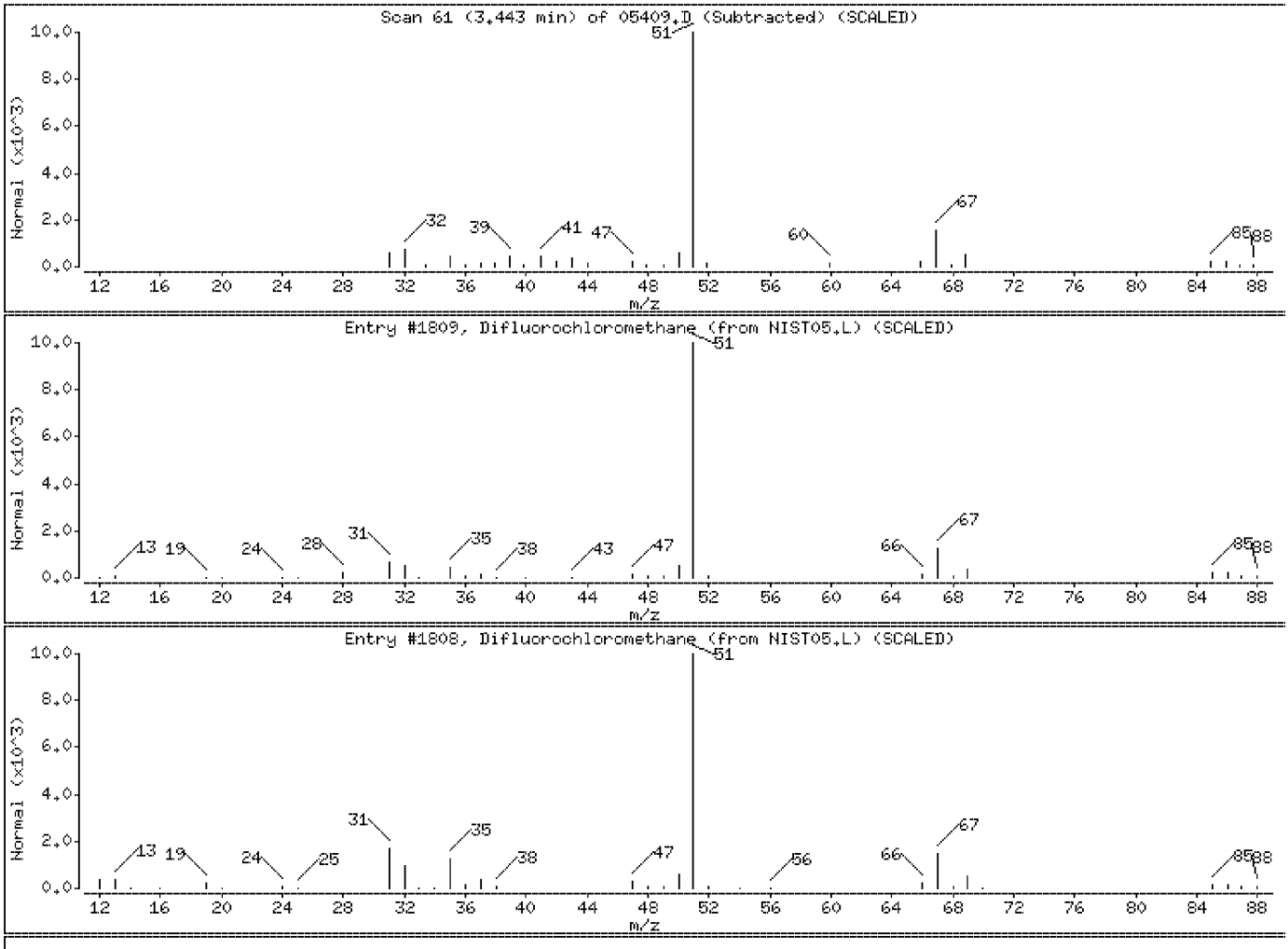
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Difluorochloromethane	75-45-6	NIST05.L	1809	94	CHClF2	86
Difluorochloromethane	75-45-6	NIST05.L	1808	90	CHClF2	86



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

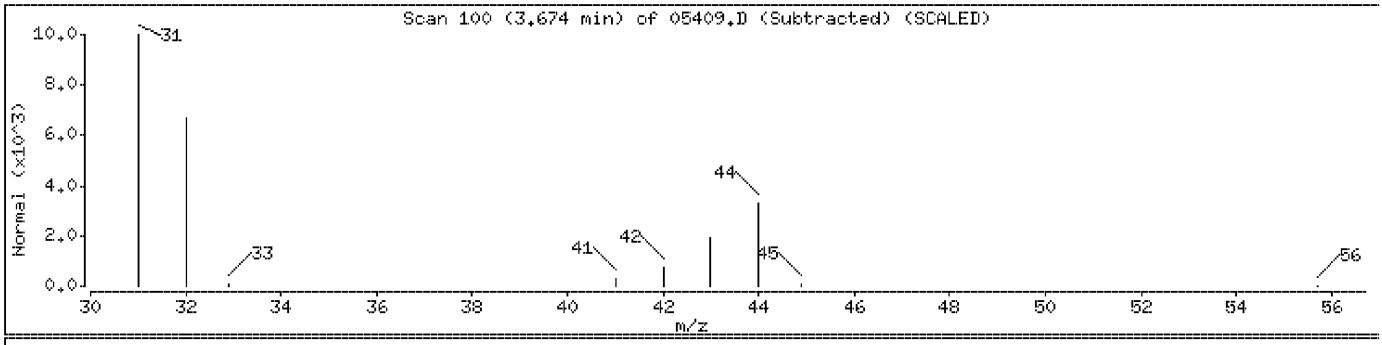
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

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Instrument: 10airB.i

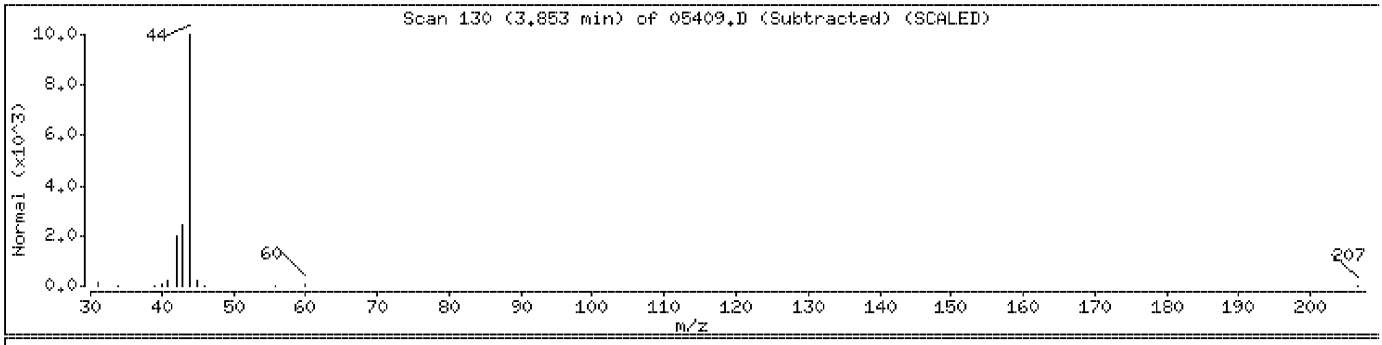
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

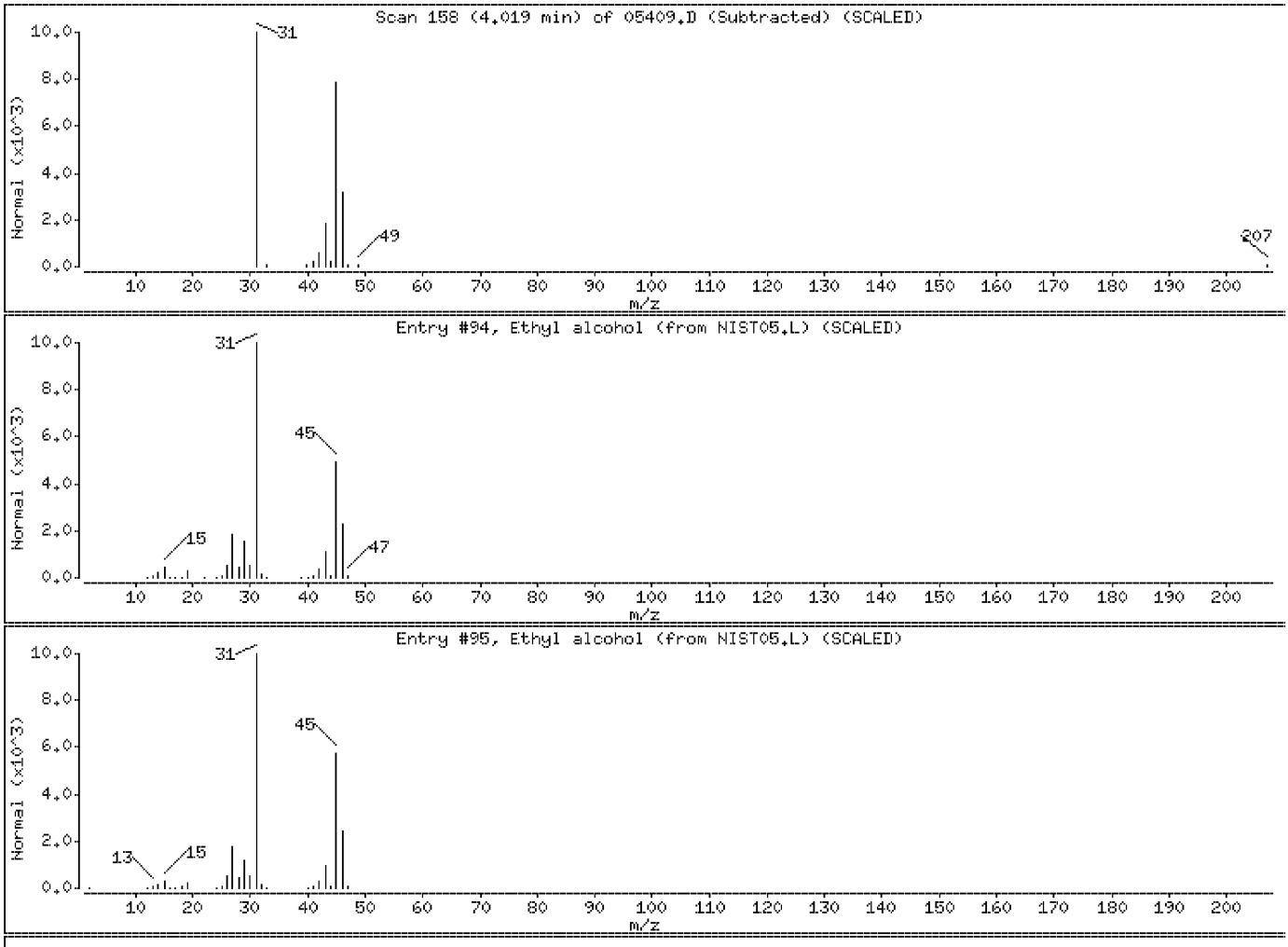
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl alcohol	64-17-5	NIST05.L	94	83	C2H6O	46
Ethyl alcohol	64-17-5	NIST05.L	95	83	C2H6O	46



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

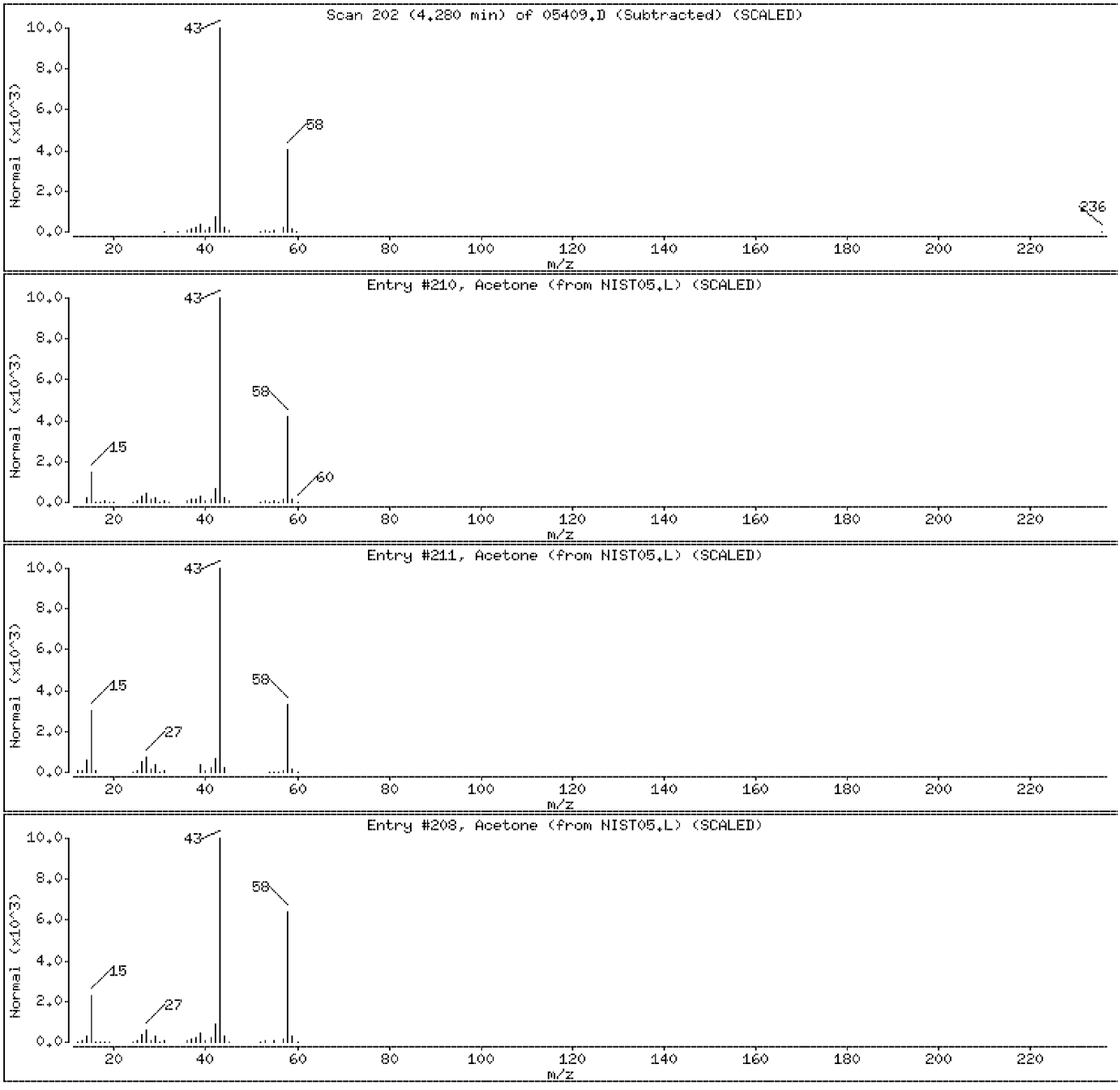
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetone	67-64-1	NIST05.L	210	86	C3H6O	58
Acetone	67-64-1	NIST05.L	211	72	C3H6O	58
Acetone	67-64-1	NIST05.L	208	72	C3H6O	58



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

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Instrument: 10airB.i

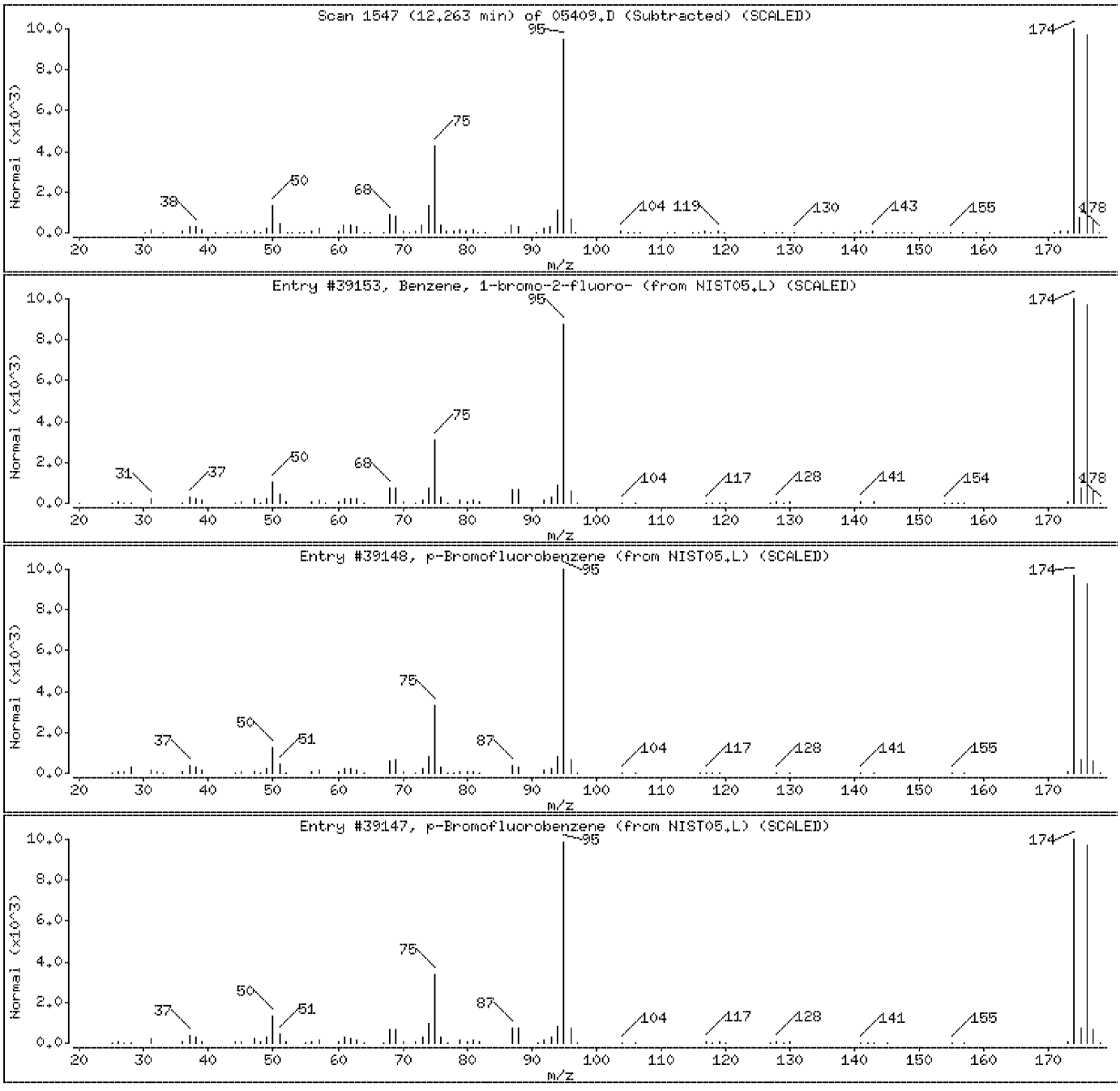
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-bromo-2-fluoro-	1072-85-1	NIST05.L	39153	95	C6H4BrF	174
p-Bromofluorobenzene	460-00-4	NIST05.L	39148	95	C6H4BrF	174
p-Bromofluorobenzene	460-00-4	NIST05.L	39147	94	C6H4BrF	174



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

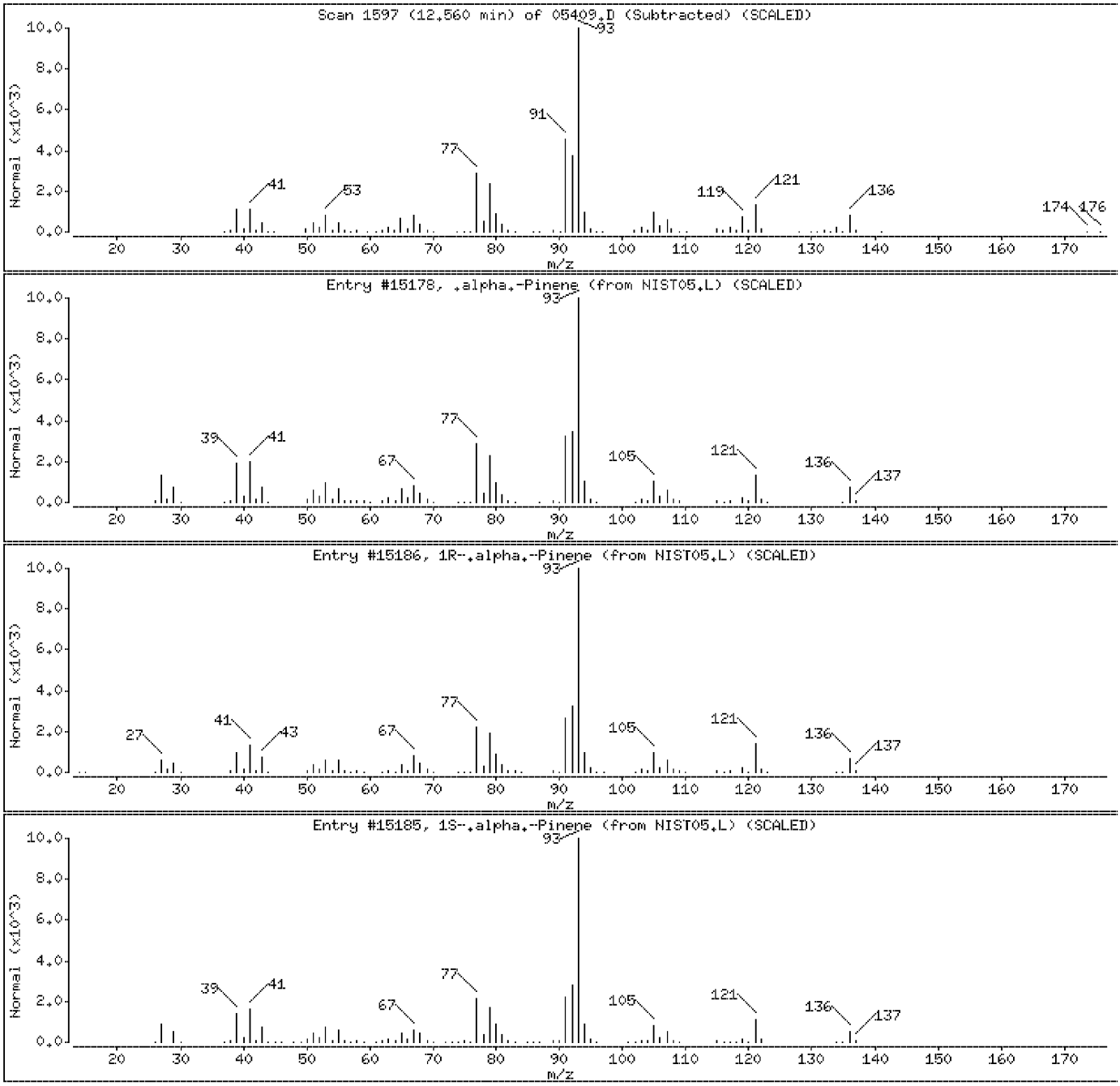
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.alpha.-Pinene	80-56-8	NIST05.L	15178	97	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	97	C10H16	136
1S-.alpha.-Pinene	7785-26-4	NIST05.L	15185	95	C10H16	136



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

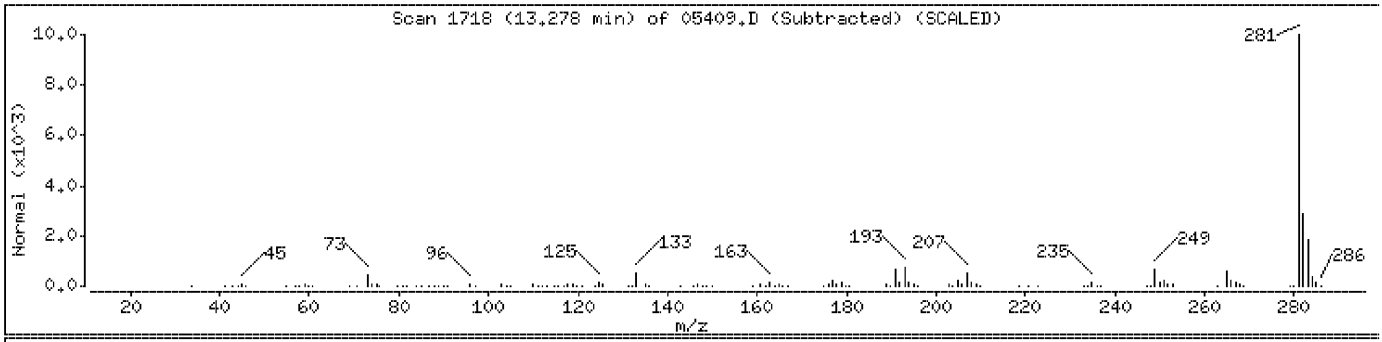
Sample Info: 5058707004, 1.34x

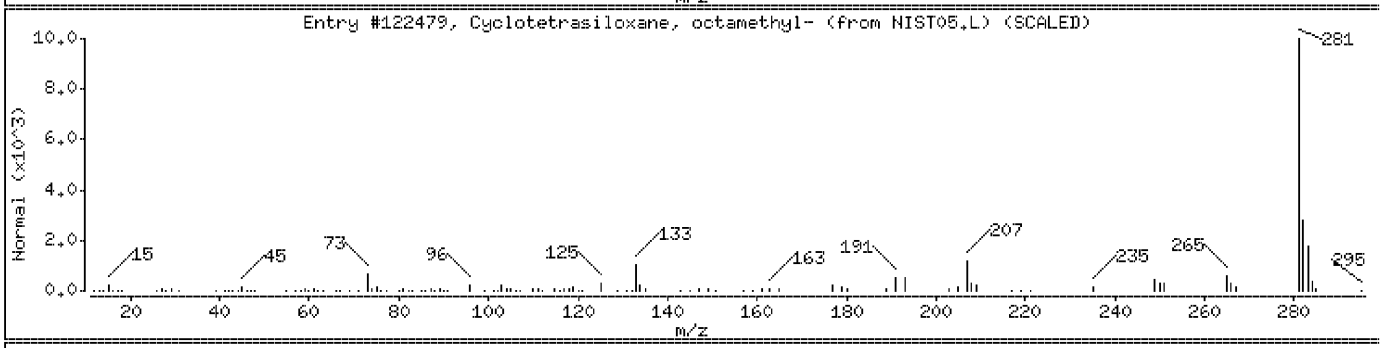
Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST05.L	122479	90	C8H24O4Si4	296





Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

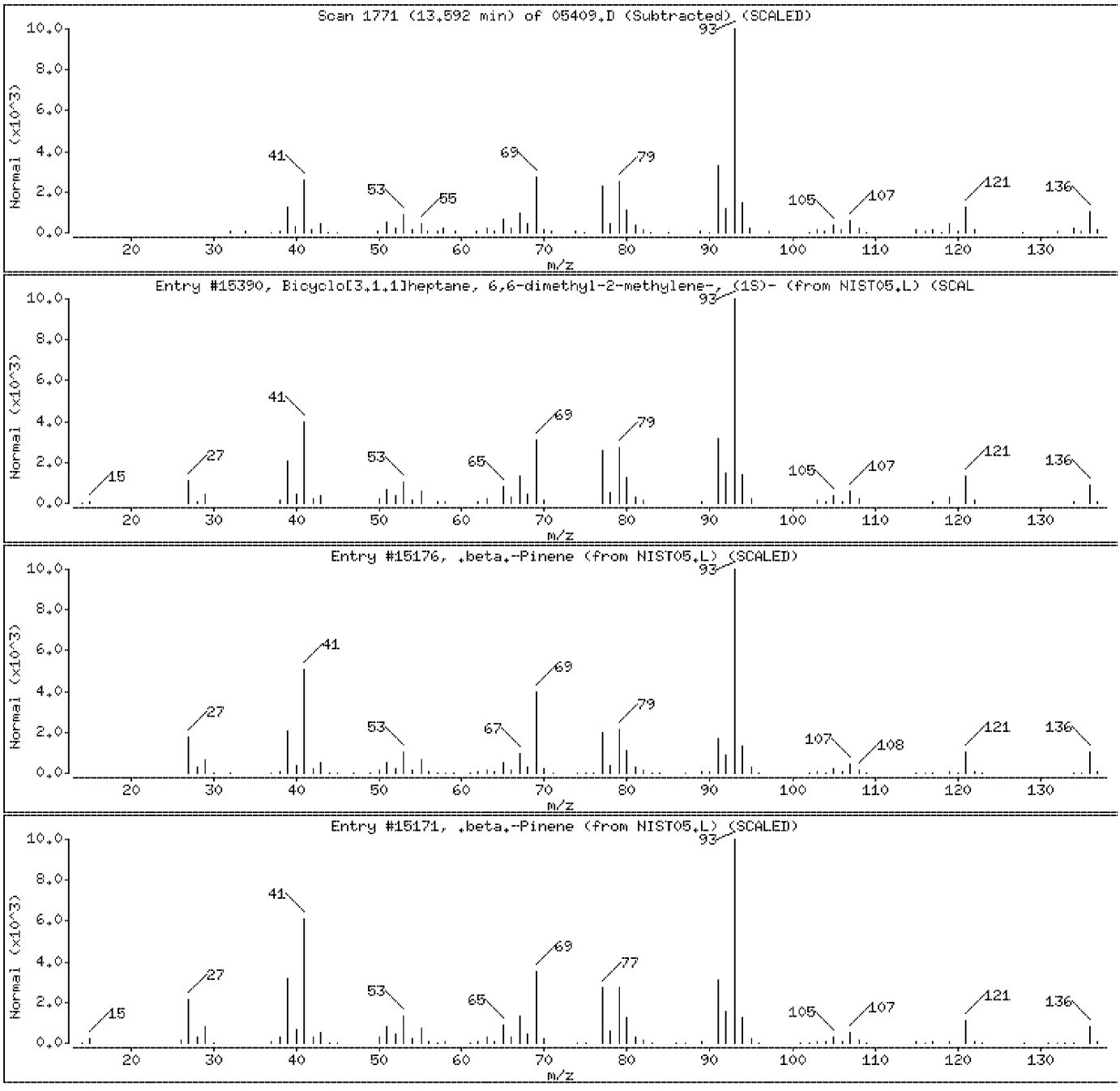
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me	18172-67-3	NIST05.L	15390	96	C10H16	136
.beta.-Pinene	127-91-3	NIST05.L	15176	94	C10H16	136
.beta.-Pinene	127-91-3	NIST05.L	15171	94	C10H16	136



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

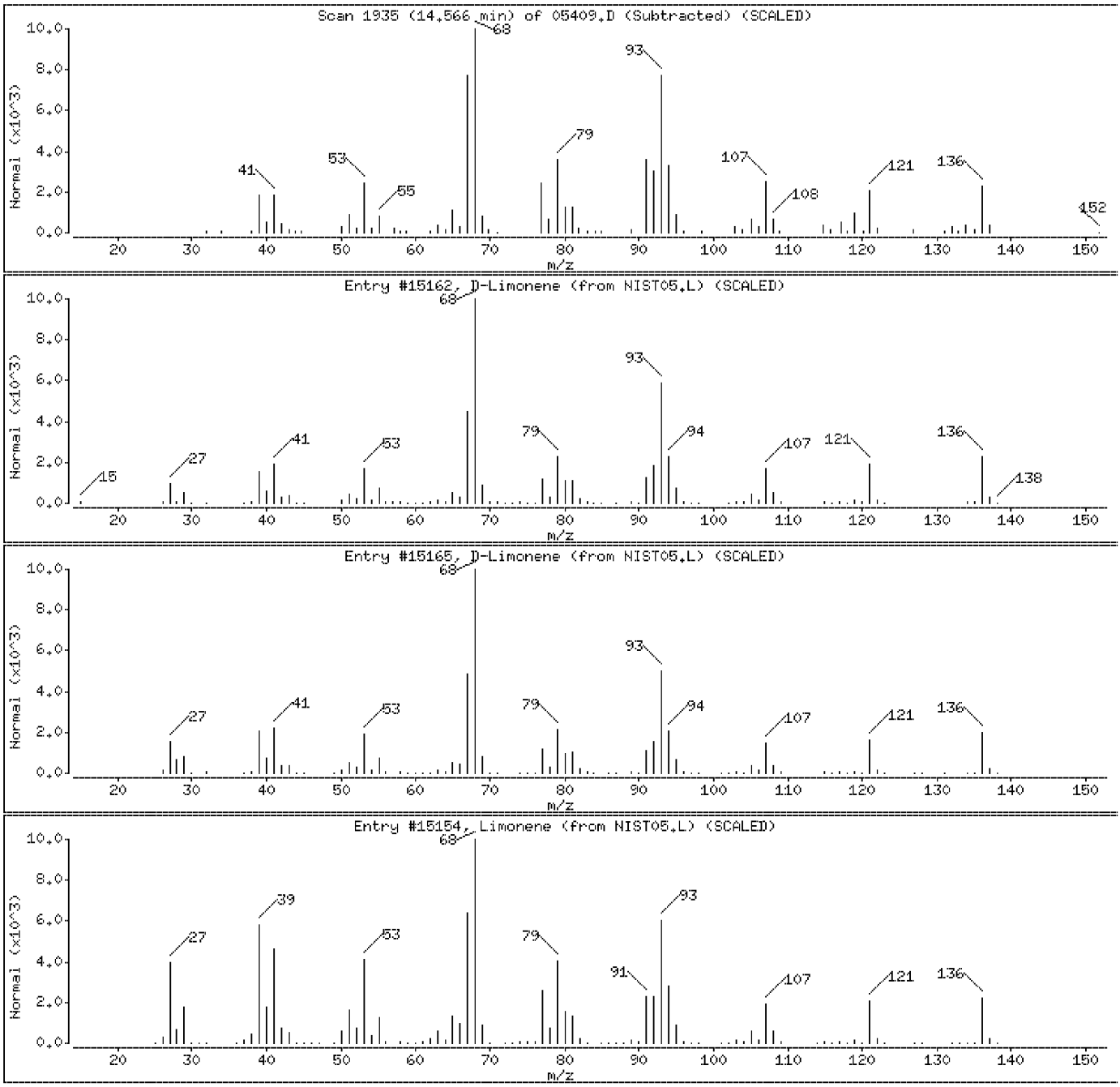
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
D-Limonene	5989-27-5	NIST05.L	15162	95	C10H16	136
D-Limonene	5989-27-5	NIST05.L	15165	95	C10H16	136
Limonene	138-86-3	NIST05.L	15154	94	C10H16	136



Data File: \\192.168.10.12\chem\10airB.i\022312.b\05409.D

Date : 23-FEB-2012 16:08

Client ID:

Instrument: 10airB.i

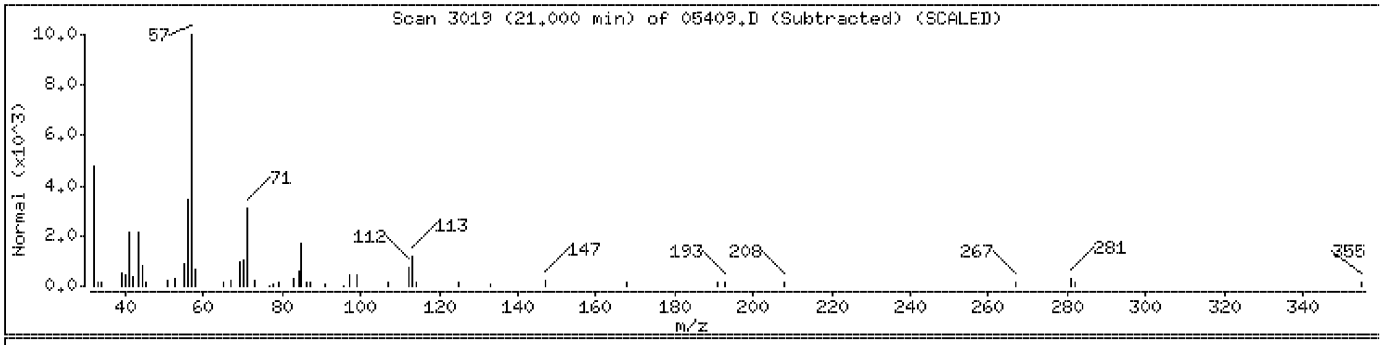
Sample Info: 5058707004, 1.34x

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D
Report Date: 29-Feb-2012 14:11

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\022712.B\05820.D
Lab Smp Id: 5058707005
Inj Date : 27-FEB-2012 21:36
Operator : SK4 Inst ID: 10airD.i
Smp Info :
Misc Info : 14340
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Meth Date : 29-Feb-2012 14:10 creindl Quant Type: ISTD
Cal Date : 27-FEB-2012 15:15 Cal File: 05811.D
Als bottle: 20
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Propylene	41	3.051	3.055	(0.487)	43850	2.59230	3.47
2	Dichlorodifluoromethane	85	3.081	3.084	(0.492)	29001	0.20567	0.276
3	Dichlorotetrafluoroethane	85	Compound Not Detected.					
4	Chloromethane	50	3.185	3.186	(0.509)	8672	0.28686	0.384
5	Vinyl chloride	62	Compound Not Detected.					
6	1,3-Butadiene	54	Compound Not Detected.					
7	Bromomethane	94	Compound Not Detected.					
8	Chloroethane	64	Compound Not Detected.					
9	Ethanol	31	3.584	3.578	(0.572)	60005	4.31131	5.78
10	Vinyl Bromide	106	Compound Not Detected.					
11	Acrolein	56	Compound Not Detected.					
12	Trichlorofluoromethane	101	3.796	3.800	(0.606)	14904	0.16900	0.226
13	Acetone	43	3.826	3.833	(0.611)	4534297	97.9580	131(A)
14	Isopropyl Alcohol	45	3.878	3.869	(0.619)	27525	0.50924	0.682(QM)
15	1,1-Dichloroethene	61	Compound Not Detected.					
16	Acrylonitrile	53	Compound Not Detected.					
17	Tert Butyl Alcohol	59	4.123	4.111	(0.659)	9096	0.13845	0.186(QM)
18	Freon 113	101	Compound Not Detected.					
19	Methylene chloride	49	4.215	4.211	(0.673)	11994	0.06889	0.0923
20	Allyl Chloride	76	Compound Not Detected.					
21	Carbon Disulfide	76	Compound Not Detected.					
22	trans-1,2-dichloroethene	96	Compound Not Detected.					
23	Methyl Tert Butyl Ether	73	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D
Report Date: 29-Feb-2012 14:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Vinyl Acetate	43	Compound Not Detected.					
	25 1,1-Dichloroethane	63	Compound Not Detected.					
$	26 Hexane-d14(S)	66	4.833	4.836	(0.772)	315544	10.3276	10.3
	27 Methyl Ethyl Ketone	72	4.911	4.921	(0.784)	69819	5.41071	7.25(Q)
	28 n-Hexane	57	Compound Not Detected.					
	29 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	30 Ethyl Acetate	43	Compound Not Detected.					
	31 Bromochloromethane	49	Compound Not Detected.					
	32 Chloroform	83	Compound Not Detected.					
	33 Tetrahydrofuran	42	5.473	5.467	(0.874)	3130	0.08701	0.116(QM)
	34 1,1,1-Trichloroethane	97	Compound Not Detected.					
	35 1,2-Dichloroethane	62	Compound Not Detected.					
	36 Benzene	78	6.049	6.056	(0.966)	17033	0.21141	0.283
	37 Carbon tetrachloride	117	Compound Not Detected.					
	38 Cyclohexane	56	Compound Not Detected.					
*	39 1,4-Difluorobenzene	114	6.261	6.268	(1.000)	1283136	10.0000	
	40 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	41 Heptane	43	Compound Not Detected.					
	42 1,2-Dichloropropane	63	Compound Not Detected.					
	43 Trichloroethene	130	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Bromodichloromethane	83	Compound Not Detected.					
	46 Methyl Isobutyl Ketone	43	Compound Not Detected.					
	47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	48 trans-1,3-Dichloropropene	75	Compound Not Detected.					
$	49 Toluene-d8 (S)	98	8.042	8.055	(1.285)	1050573	9.83529	9.84
	50 Toluene	91	8.134	8.144	(1.299)	79681	0.72393	0.970
	51 1,1,2-Trichloroethane	97	Compound Not Detected.					
	52 Methyl Butyl Ketone	43	8.461	8.465	(0.854)	40391	0.43146	0.578
	53 Dibromochloromethane	129	Compound Not Detected.					
	54 1,2-Dibromoethane	107	Compound Not Detected.					
	55 Tetrachloroethene	166	Compound Not Detected.					
*	56 Chlorobenzene - d5	117	9.906	9.919	(1.000)	683702	10.0000	
	57 Chlorobenzene	112	Compound Not Detected.					
	58 Ethyl Benzene	91	10.259	10.272	(1.036)	76450	0.69905	0.937
	59 m&p-Xylene	91	10.422	10.445	(1.052)	247598	2.35284	3.15
	60 2-Heptanone	43	10.706	10.730	(1.710)	43967	0.48988	0.656(A)
	61 Bromoform	173	Compound Not Detected.					
	62 Styrene	104	10.925	10.946	(1.103)	33416	0.49699	0.666
	63 o-Xylene	91	11.004	11.021	(1.111)	71294	0.80067	1.07
	64 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	65 Isopropylbenzene	105	Compound Not Detected.					
	66 N-Propylbenzene	91	Compound Not Detected.					
	67 4-Ethyltoluene	105	12.553	12.567	(1.267)	13383	0.26411	0.354(M)
	68 1,3,5-Trimethylbenzene	105	12.655	12.671	(1.277)	9052	0.19408	0.260(M)
	69 1,2,4-Trimethylbenzene	105	13.249	13.273	(1.338)	26437	0.40962	0.549
	70 1,3-Dichlorobenzene	146	Compound Not Detected.					
	71 Sec- Butylbenzene	105	Compound Not Detected.					
$	72 1,4-dichlorobenzene-d4 (S)	150	13.691	13.711	(1.382)	280687	8.90345	8.90
	73 Benzyl Chloride	91	Compound Not Detected.					
	74 1,4-Dichlorobenzene	146	13.740	13.763	(1.387)	5558	0.17472	0.234(QM)
	75 1,2-Dichlorobenzene	146	Compound Not Detected.					
	76 N-Butylbenzene	91	Compound Not Detected.					
	77 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D
Report Date: 29-Feb-2012 14:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78 Naphthalene	128	Compound Not Detected.					
79 Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D
Report Date: 29-Feb-2012 14:11

Pace Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 05820.D
Lab Smp Id: 5058707005
Analysis Type: VOA
Quant Type: ISTD
Operator: SK4
Method File: \\192.168.10.12\chem\10airD.i\022712.B\TO15_058-12.m
Misc Info: 14340

Calibration Date: 27-FEB-2012
Calibration Time: 18:09
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	1308008	784805	1831211	1283136	-1.90
56 Chlorobenzene - d	717767	430660	1004874	683702	-4.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 1,4-Difluorobenze	6.26	5.93	6.59	6.26	0.00
56 Chlorobenzene - d	9.91	9.58	10.24	9.91	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D
Date : 27-FEB-2012 21:36
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: SK4
Column phase: J&W DB-5
Column diameter: 0.32

10183444

Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

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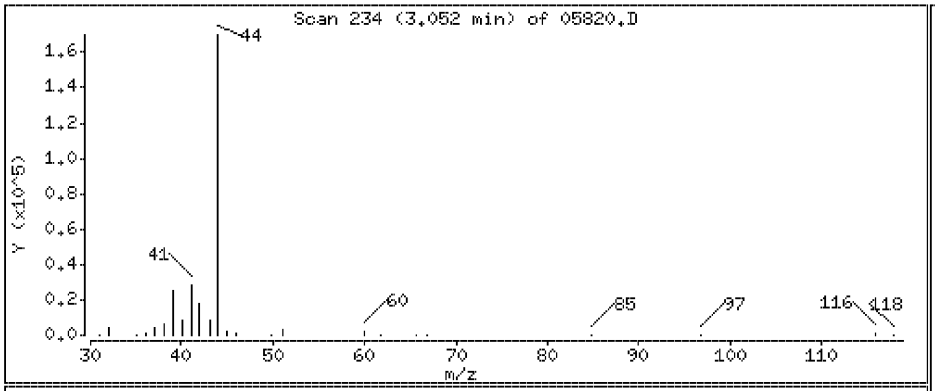
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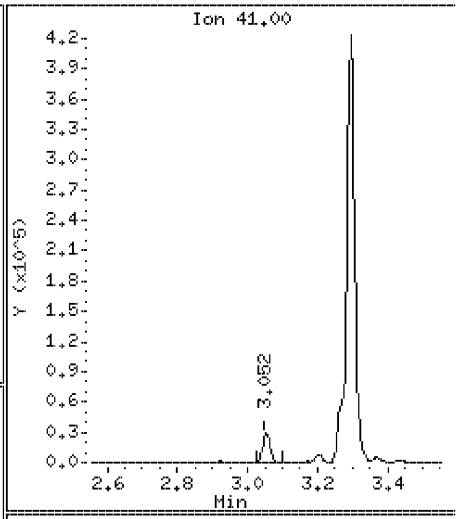
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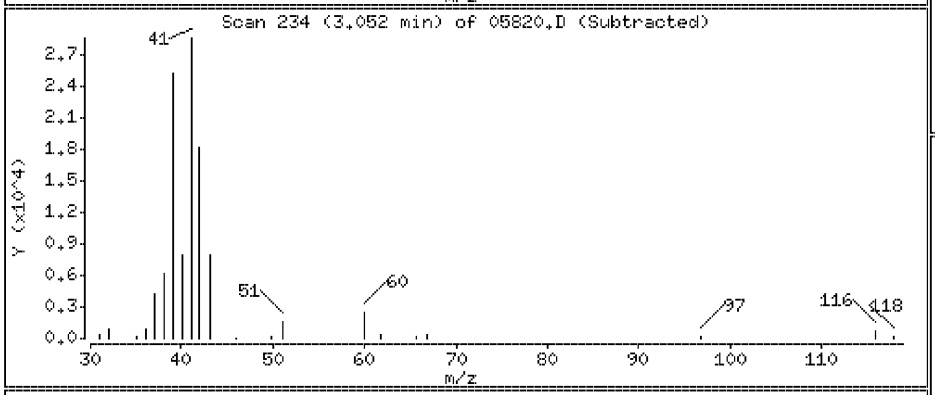
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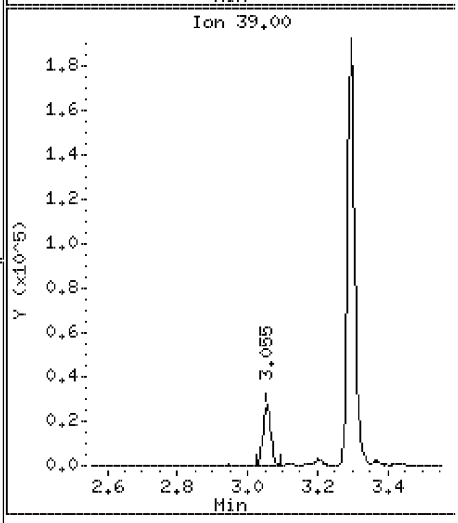
1 Propylene

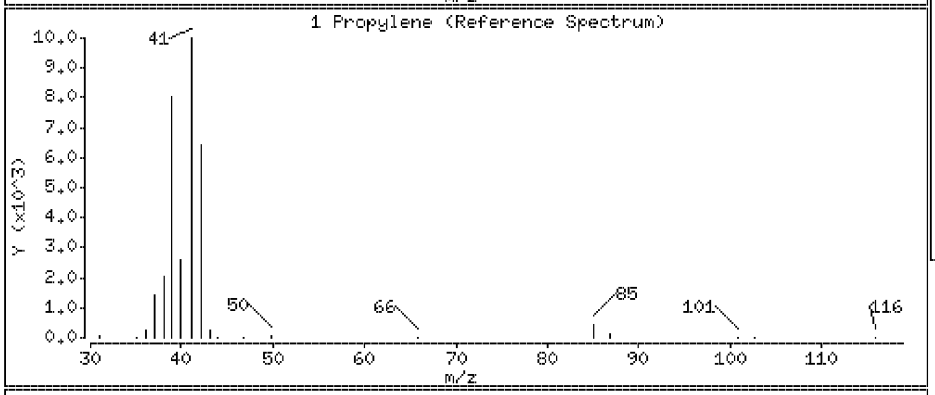
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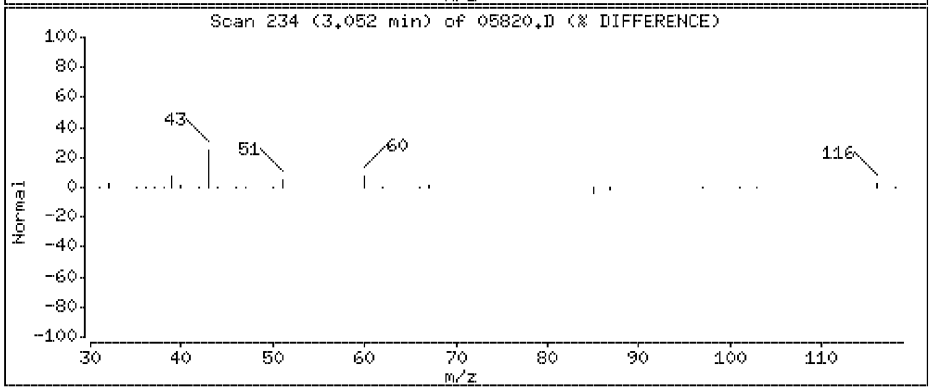












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Date : 27-FEB-2012 21:36

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Instrument: 10airD.i

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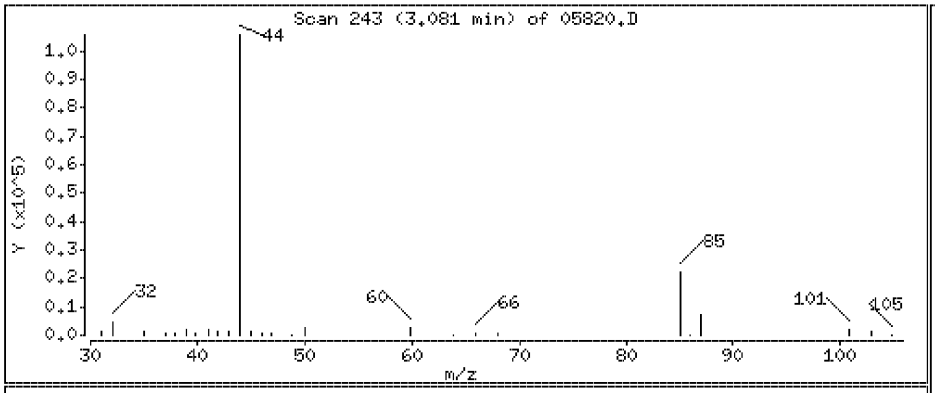
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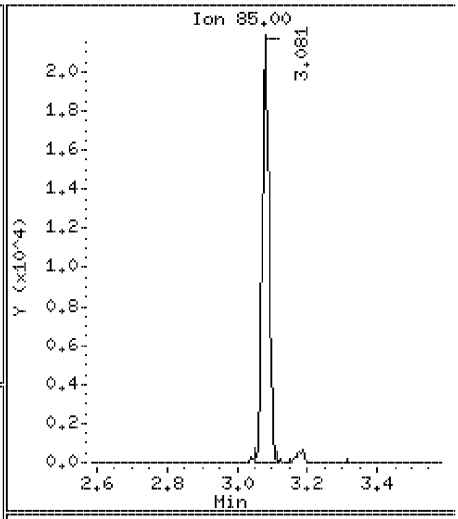
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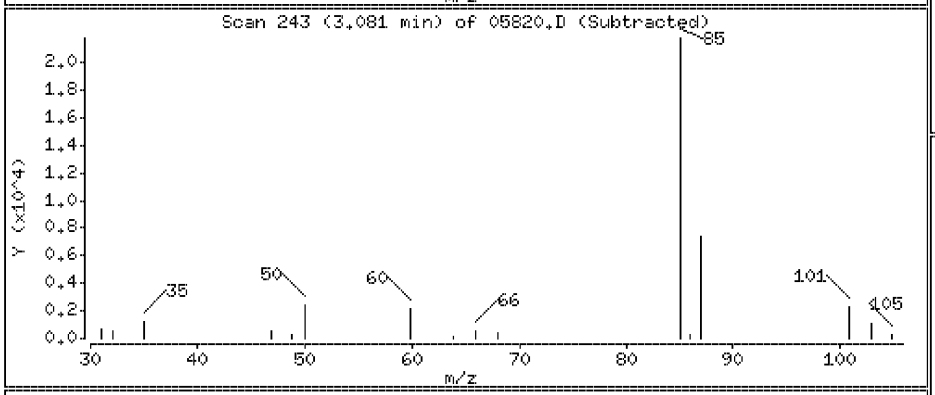
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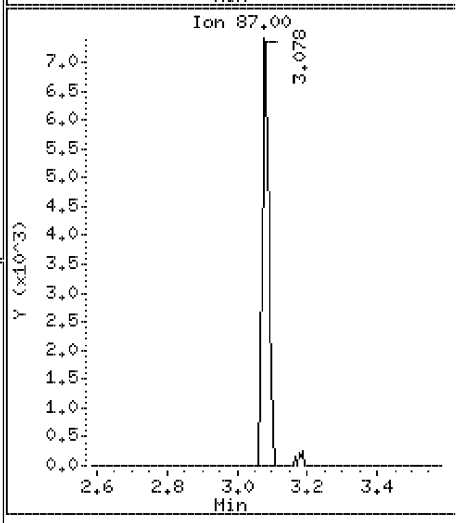
2 Dichlorodifluoromethane

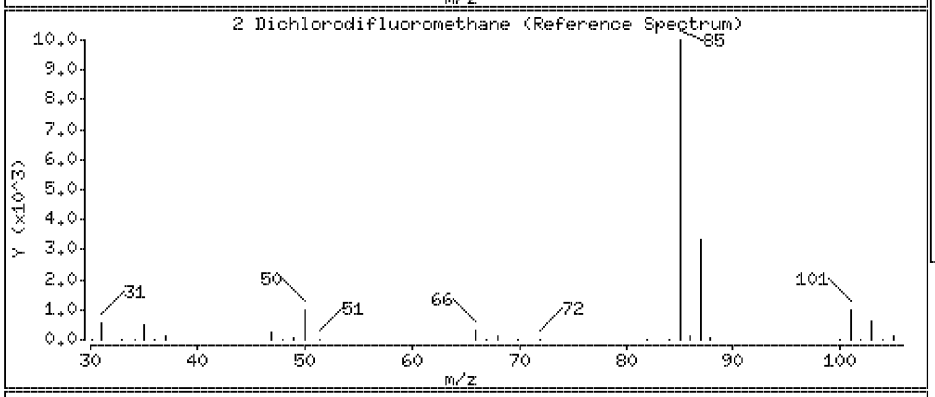
Concentration: 0.276 ppbv

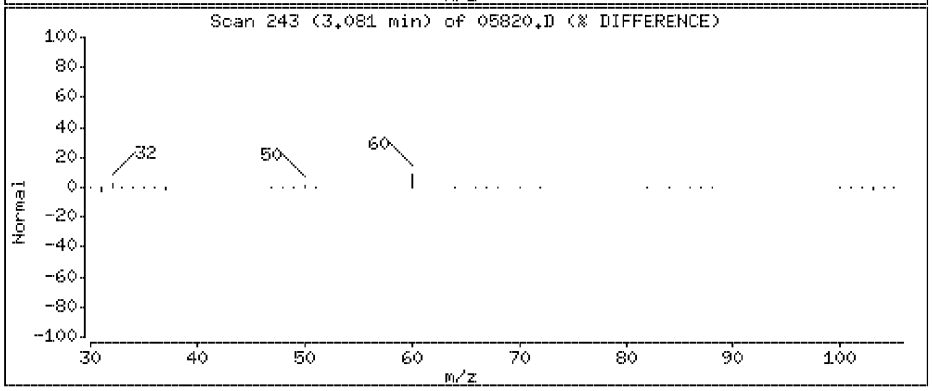












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

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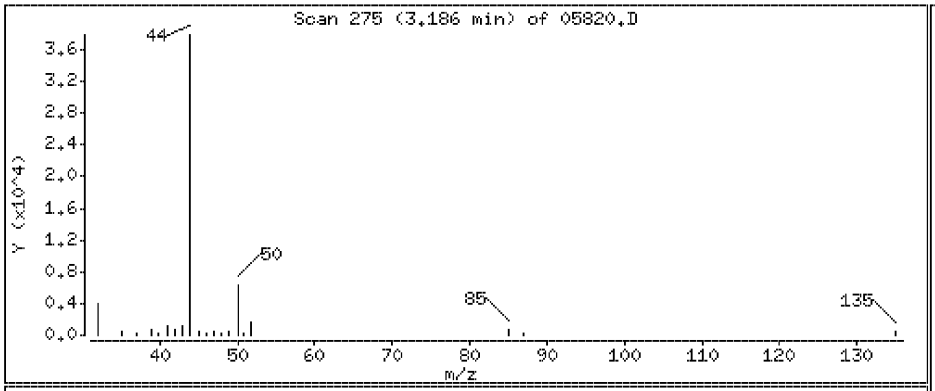
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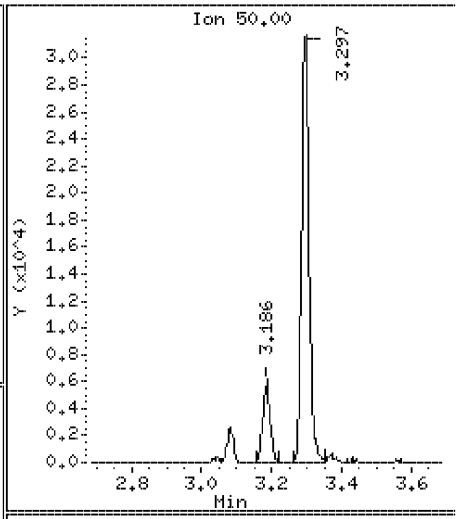
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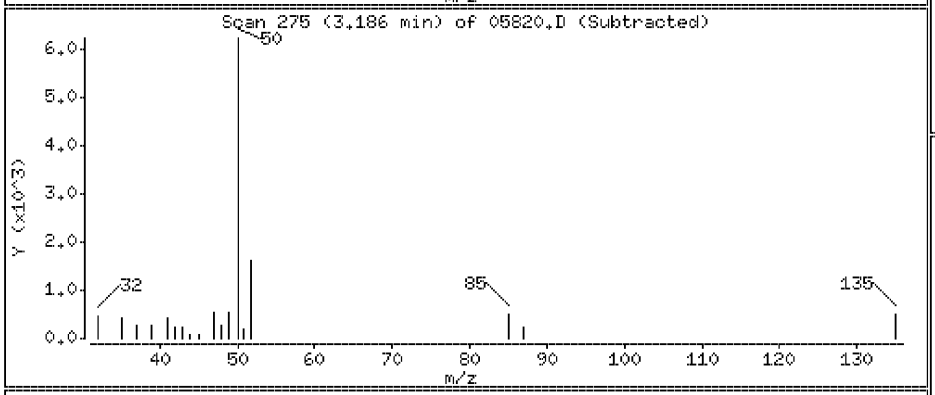
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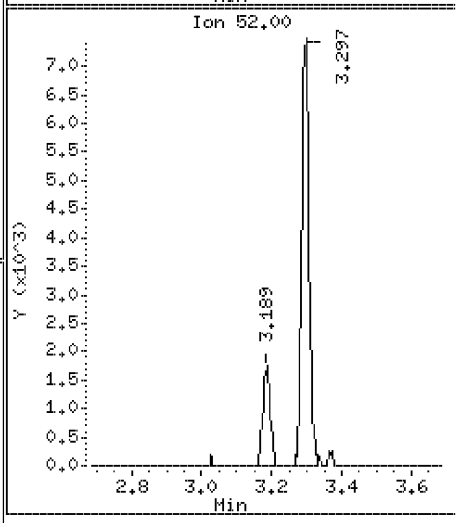
4 Chloromethane

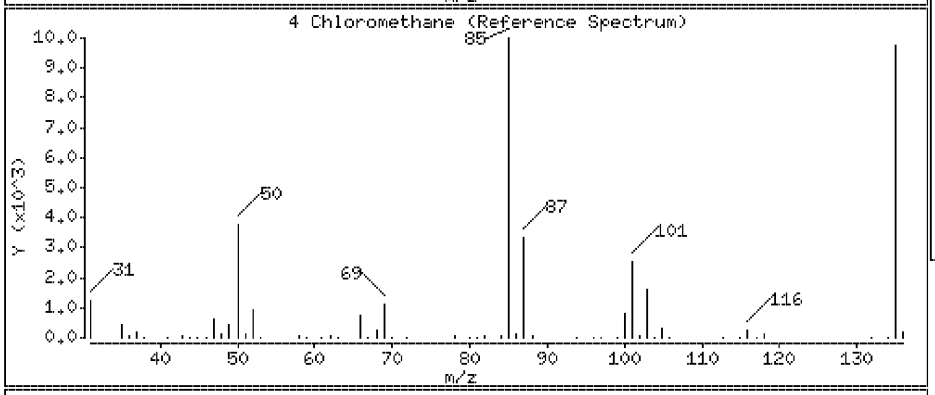
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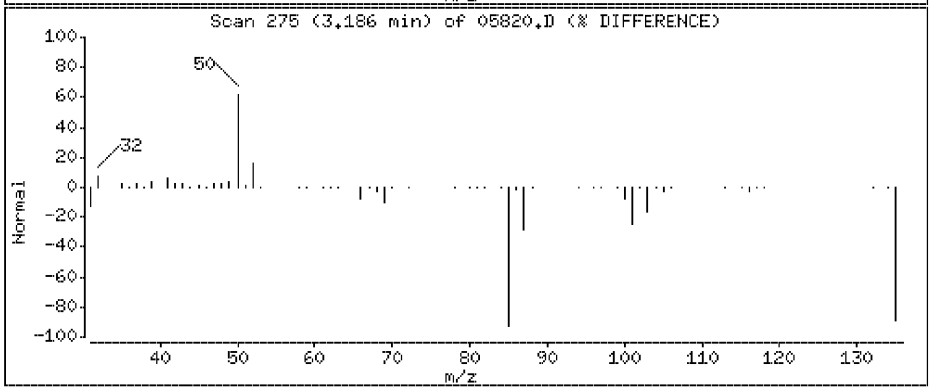












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Date : 27-FEB-2012 21:36

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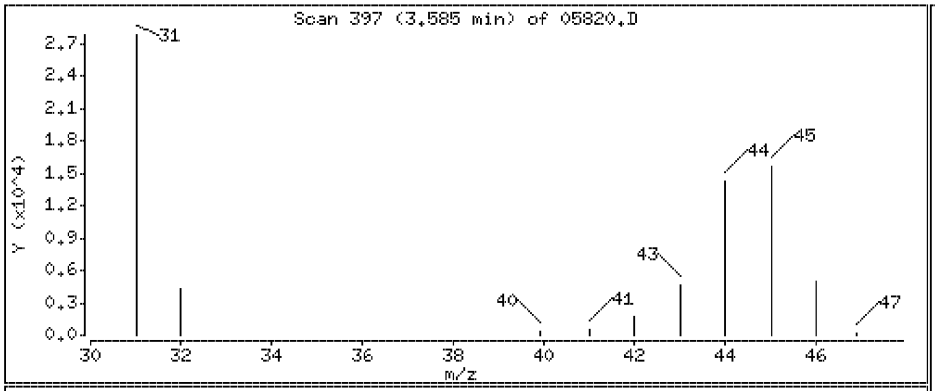
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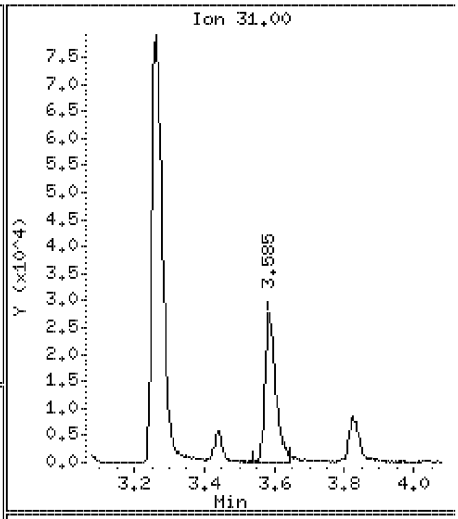
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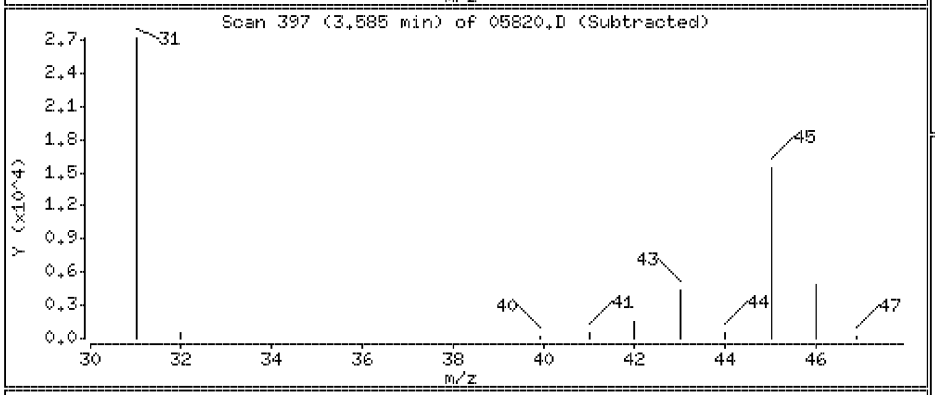
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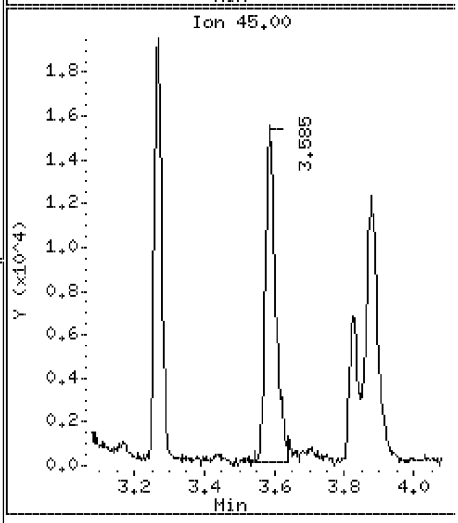
9 Ethanol

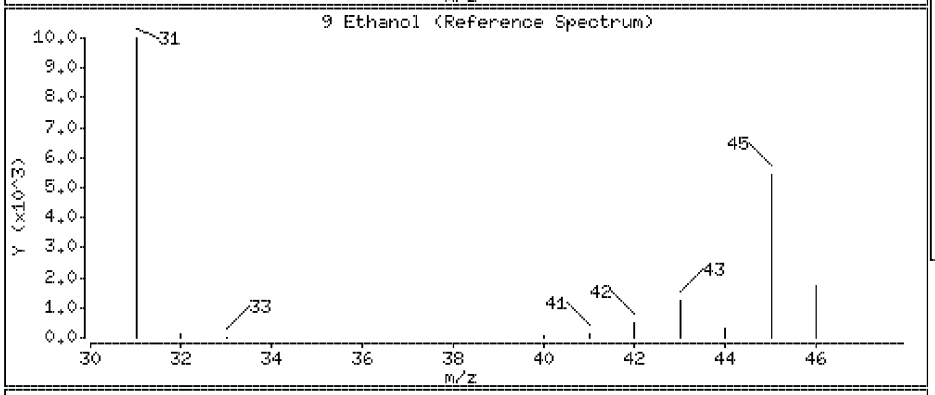
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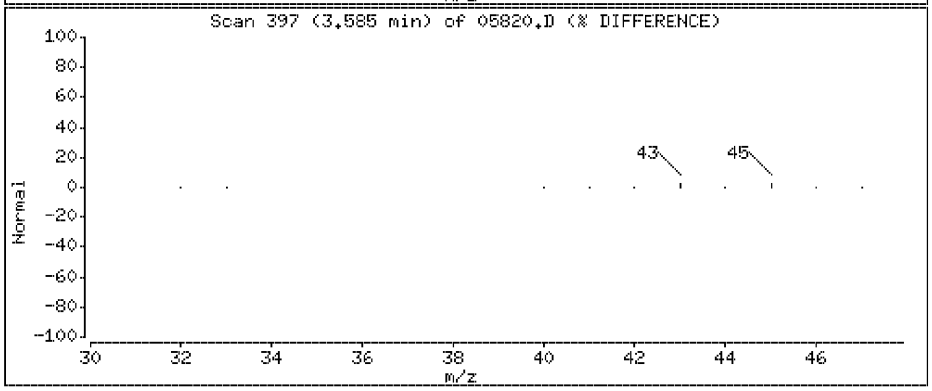












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Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

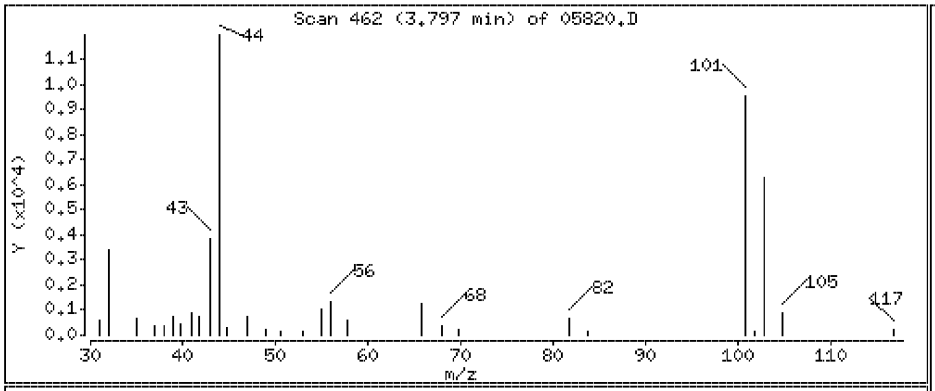
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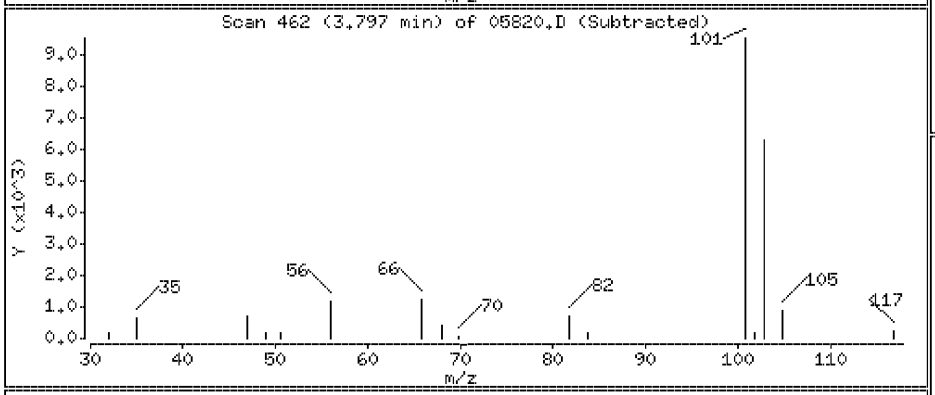
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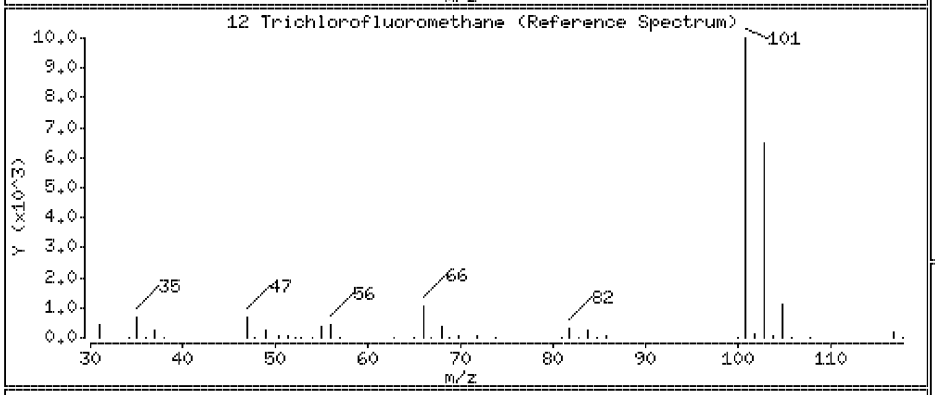
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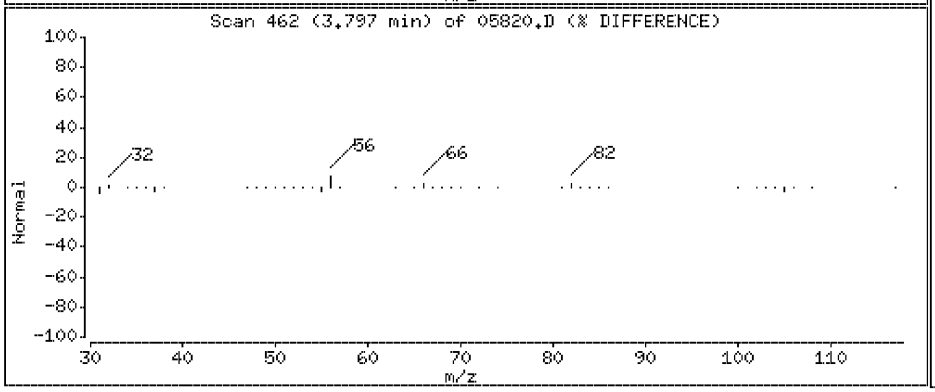
12 Trichlorofluoromethane

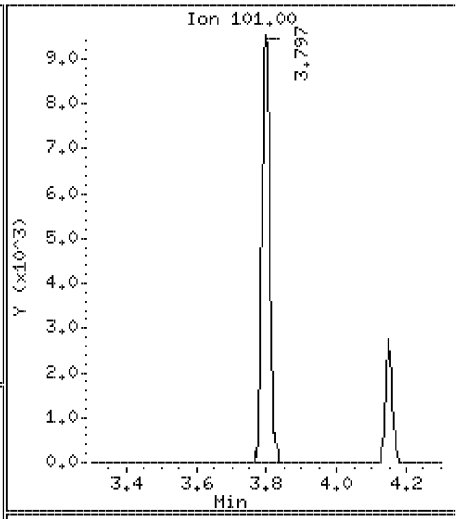
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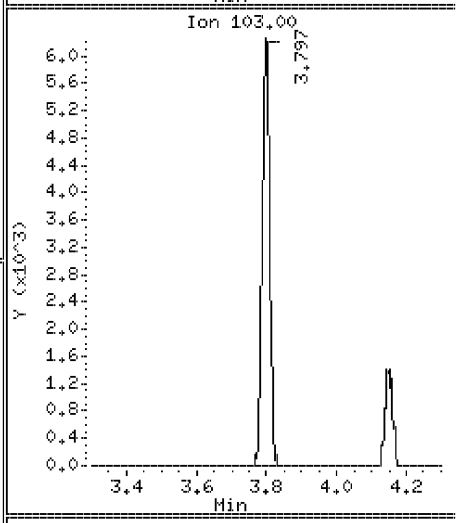


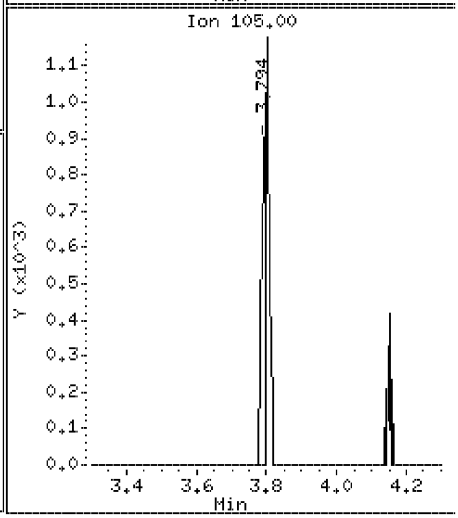












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Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

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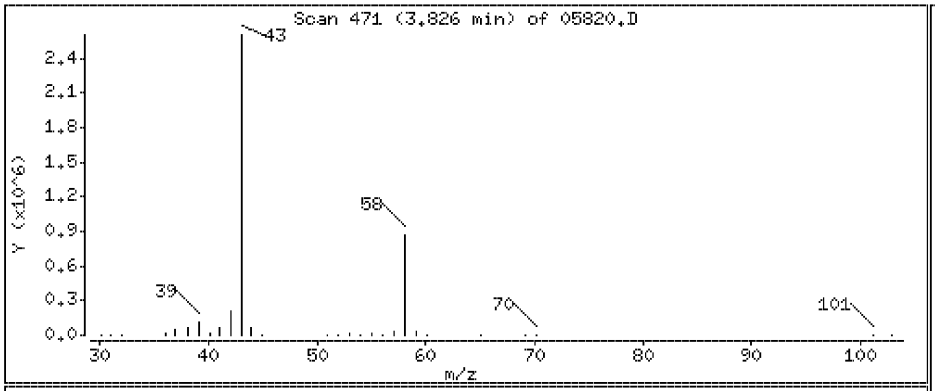
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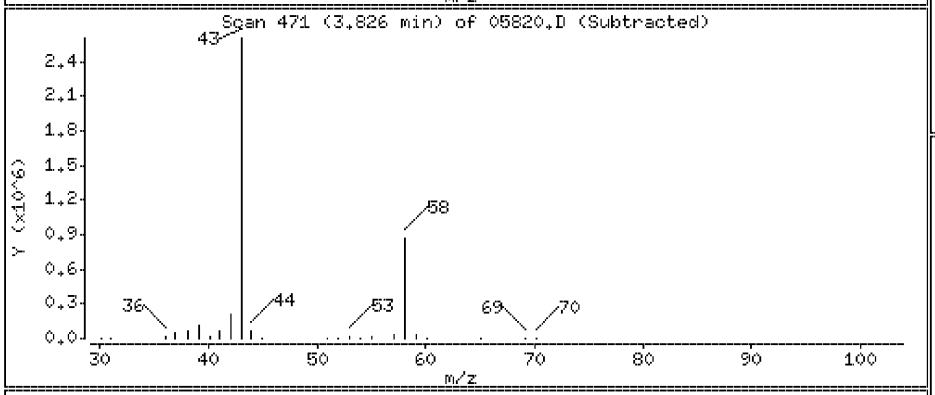
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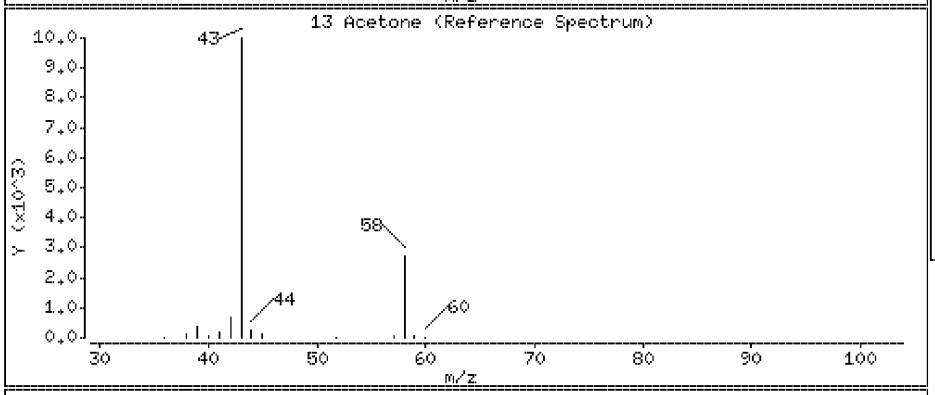
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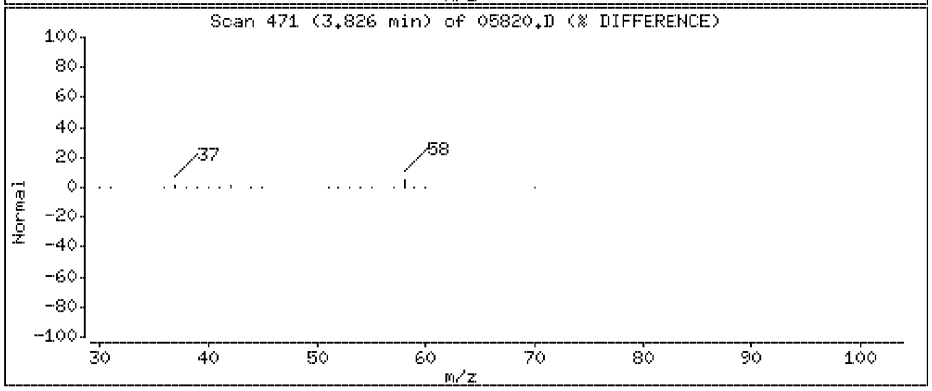
13 Acetone

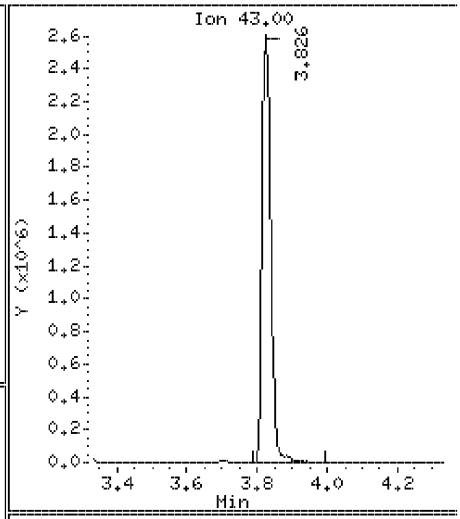
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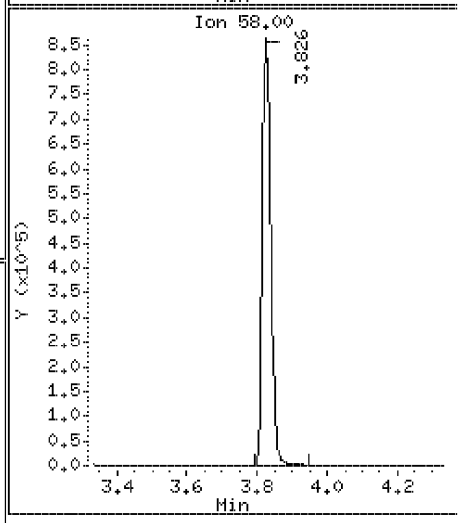












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Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

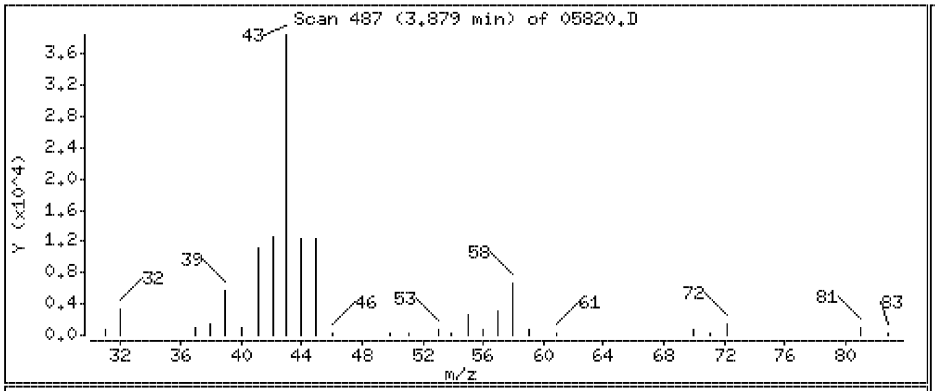
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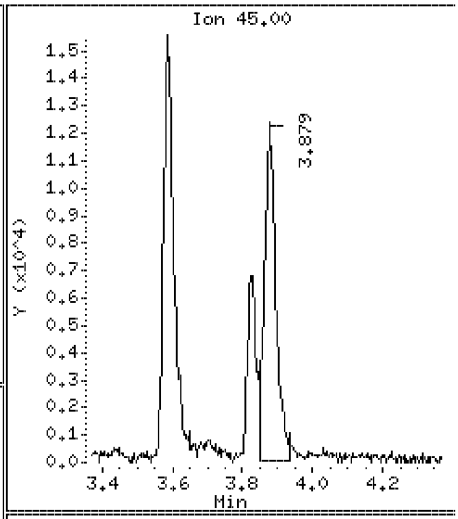
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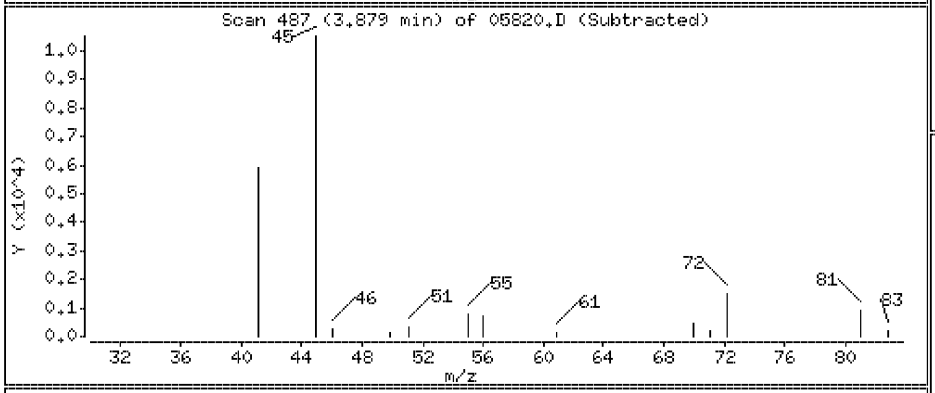
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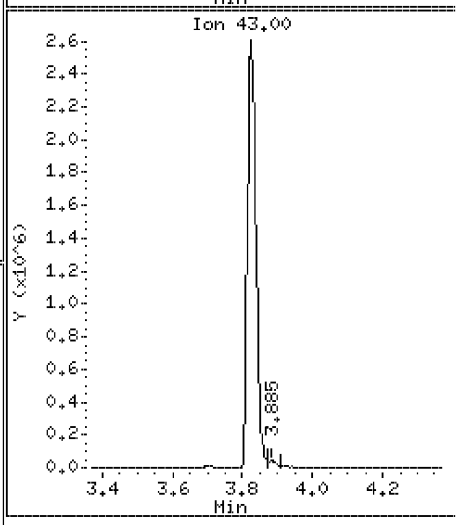
14 Isopropyl Alcohol

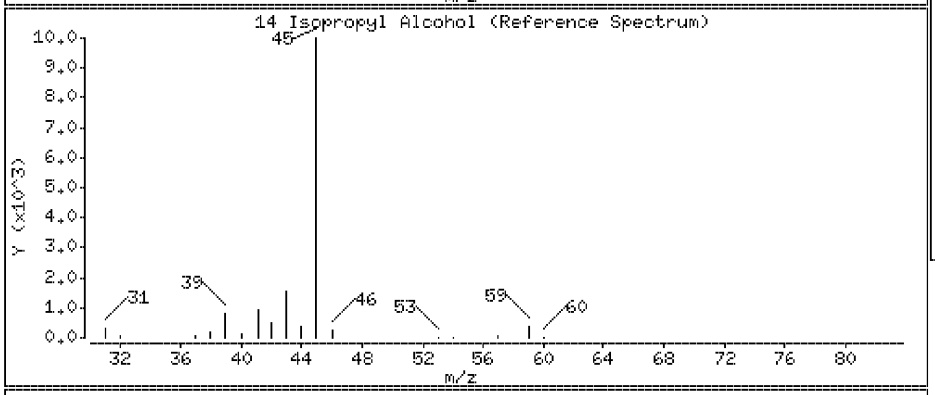
Concentration: 0.682 ppbv

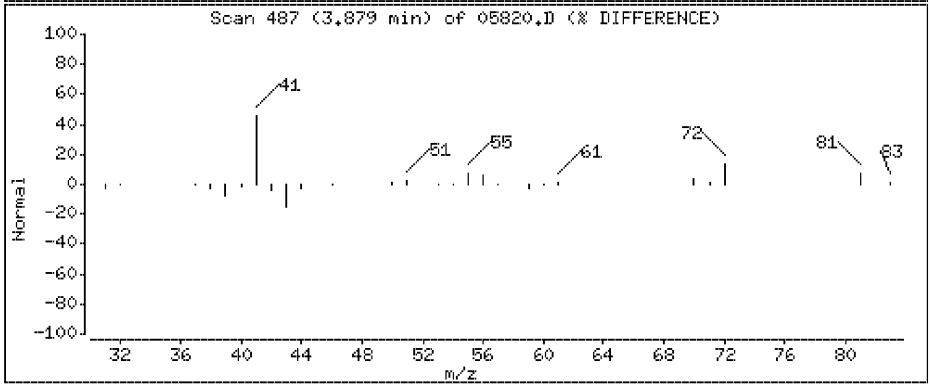












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

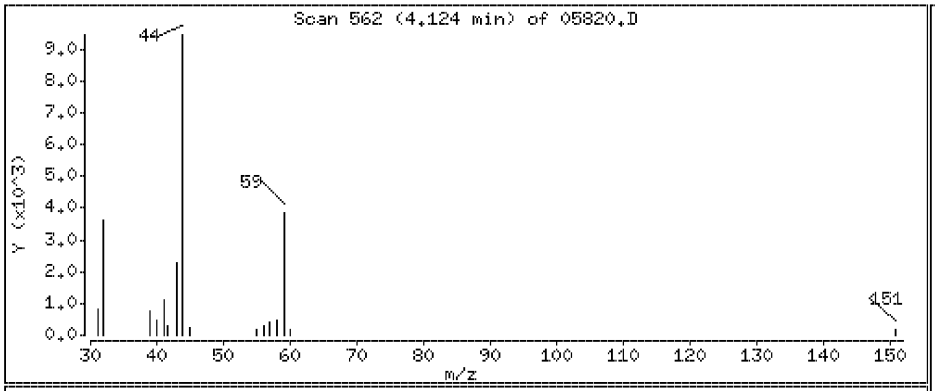
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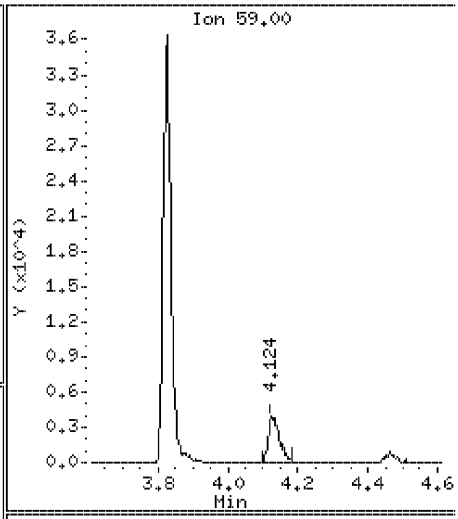
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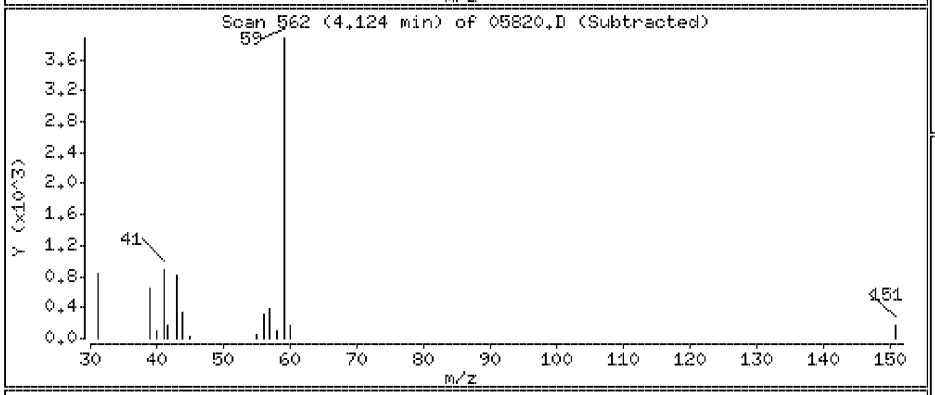
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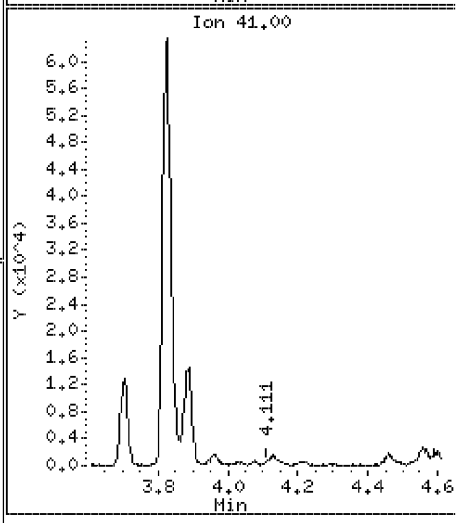
17 Tert Butyl Alcohol

Concentration: 0.186 ppbv









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Date : 27-FEB-2012 21:36

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Instrument: 10airD.i

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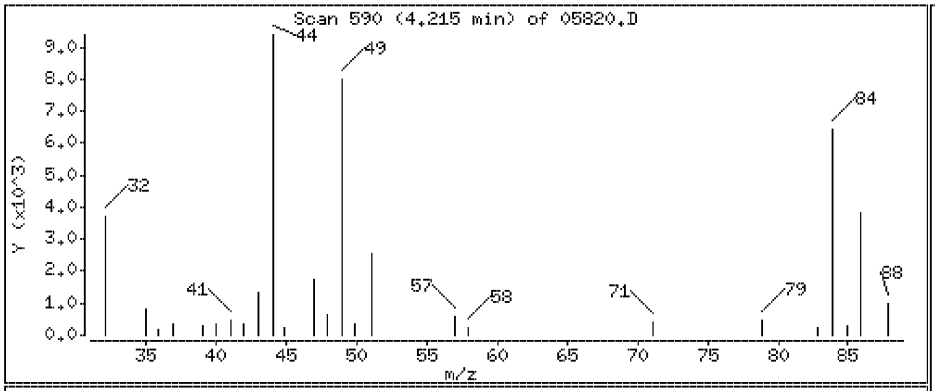
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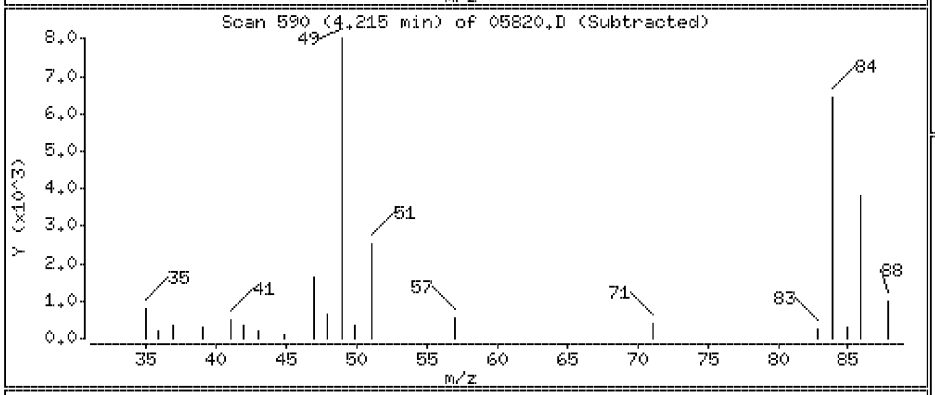
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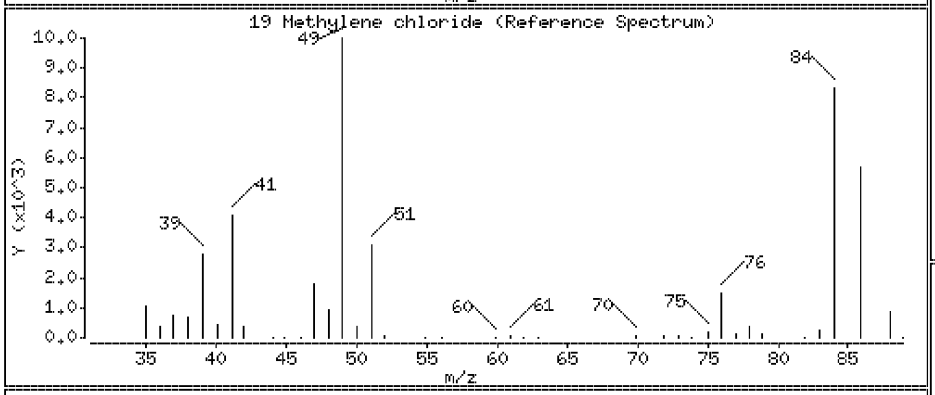
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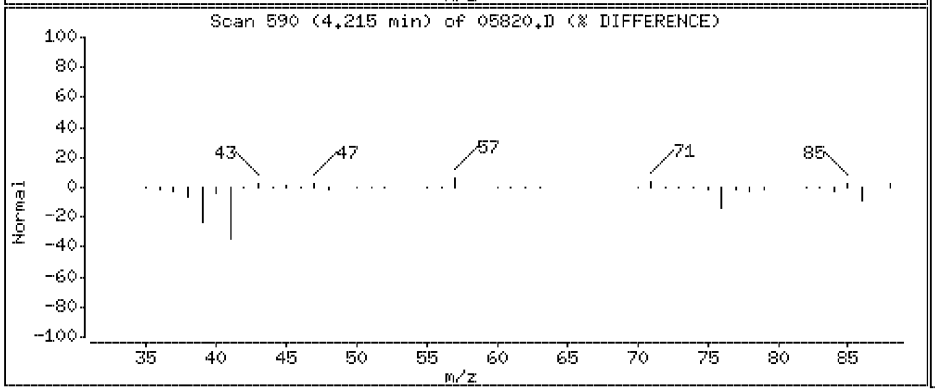
19 Methylene chloride

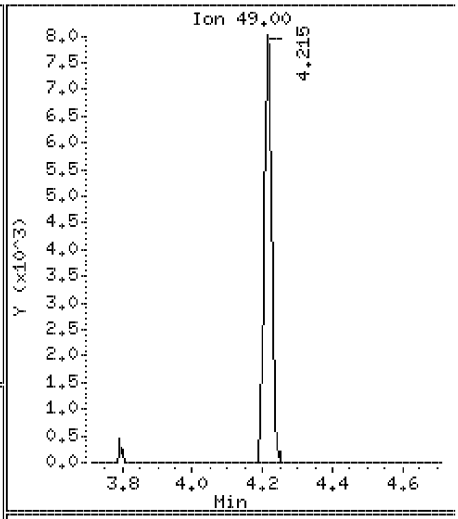
Concentration: 0.0923 ppbv

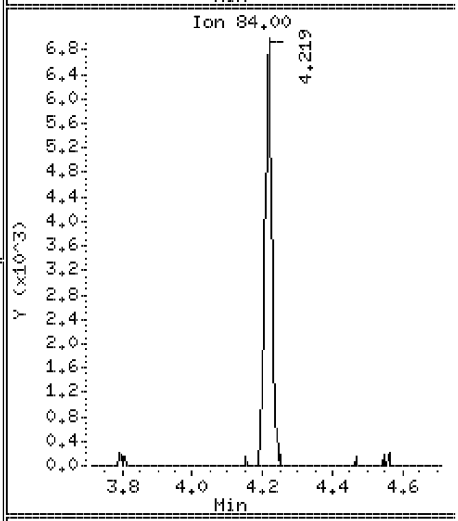


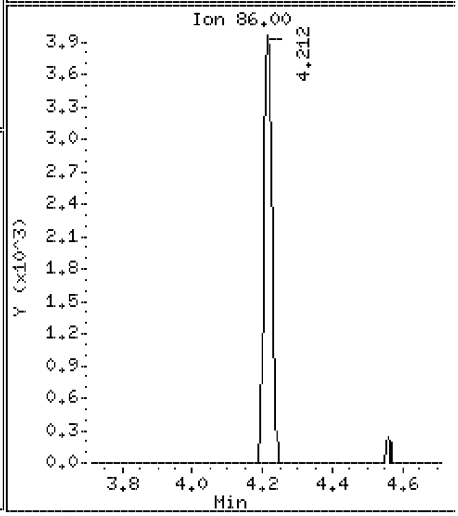












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

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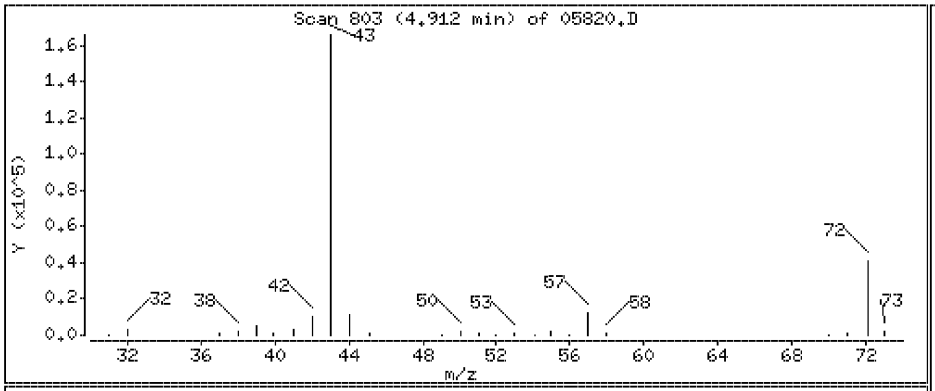
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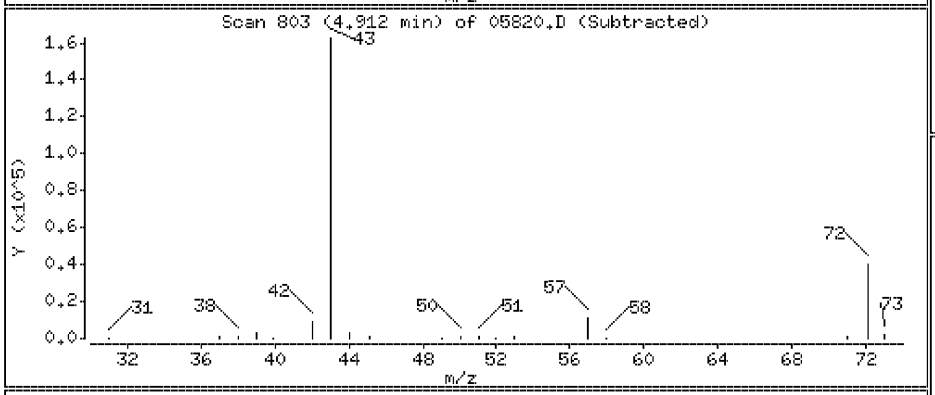
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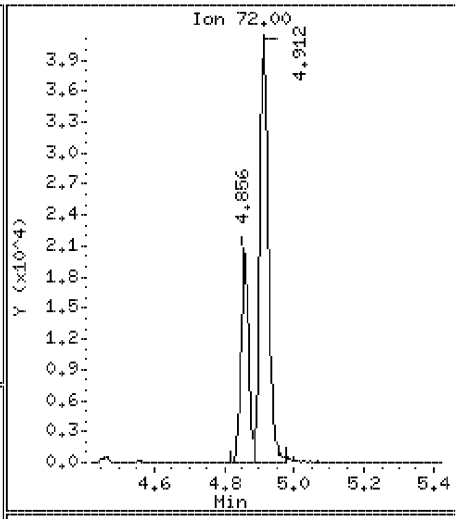
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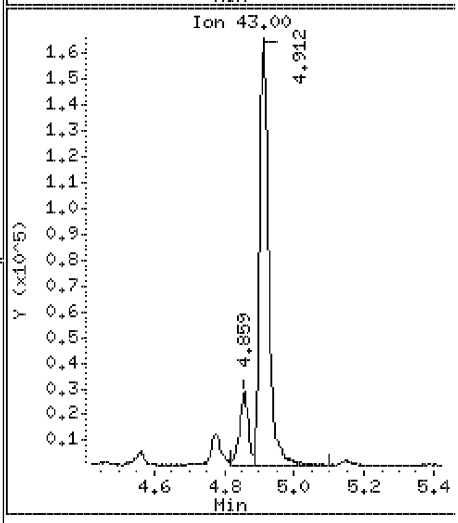
27 Methyl Ethyl Ketone

Concentration: 7.25 ppbv









Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

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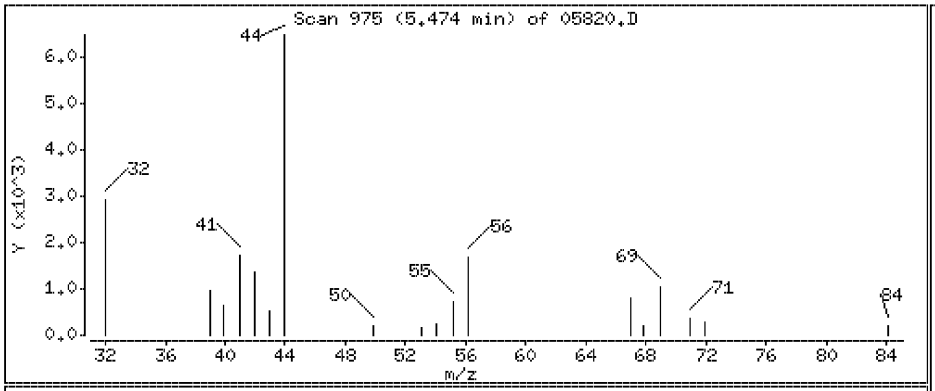
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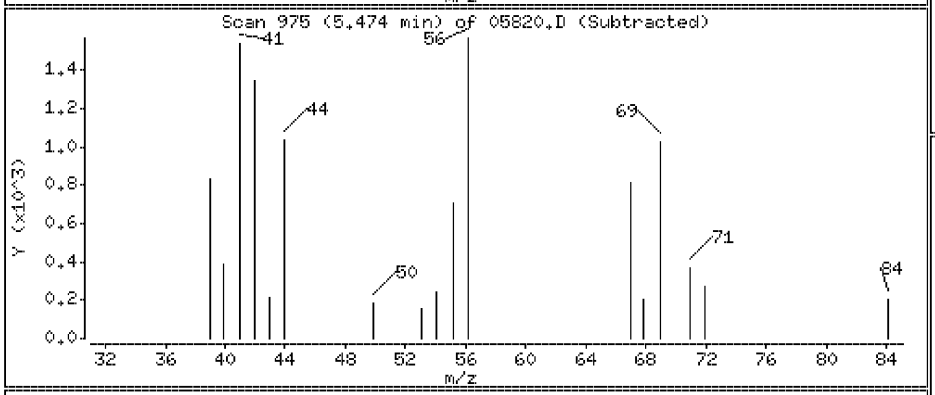
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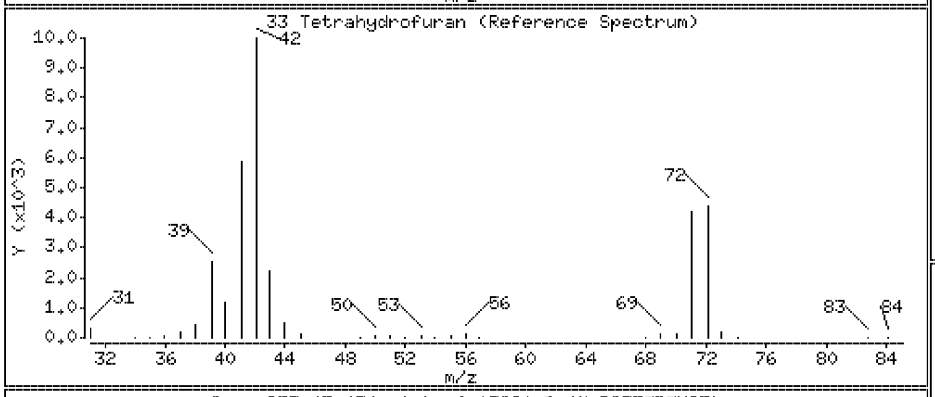
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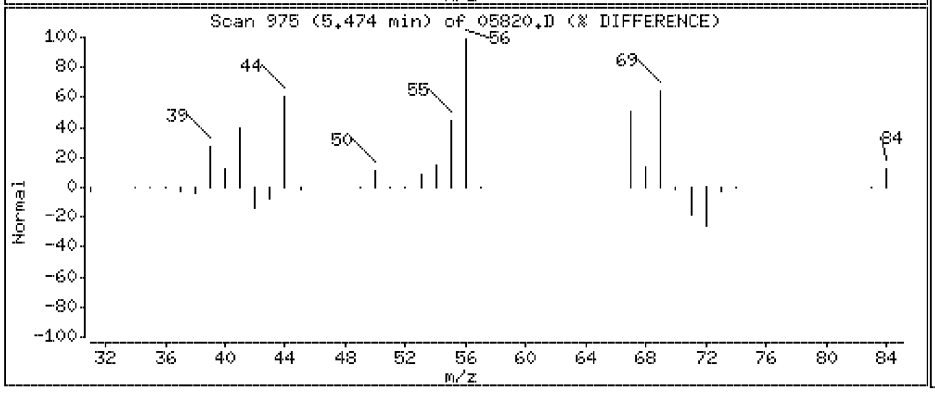
33 Tetrahydrofuran

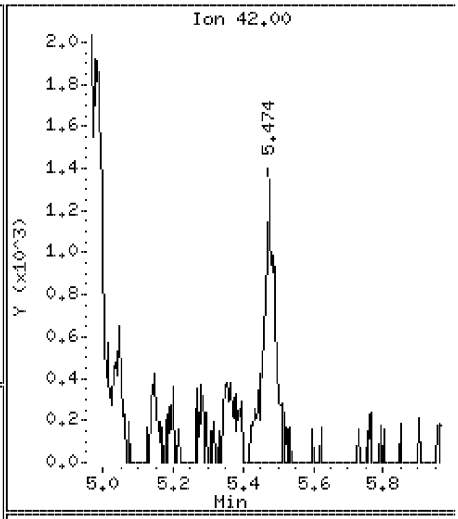
Concentration: 0.116 ppbv

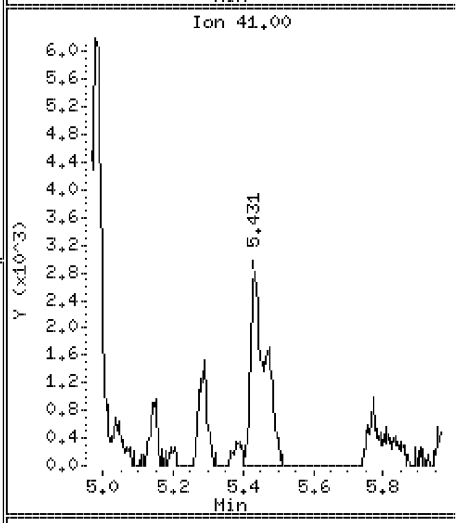


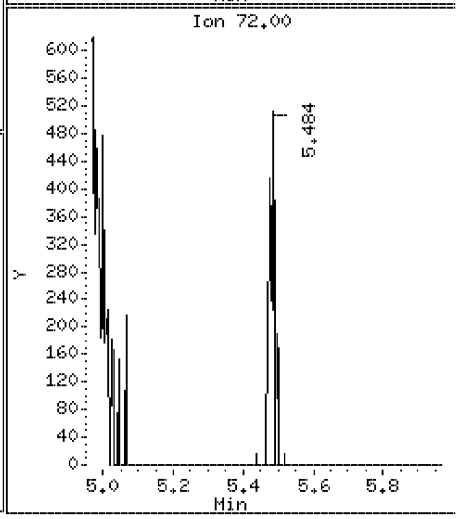












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

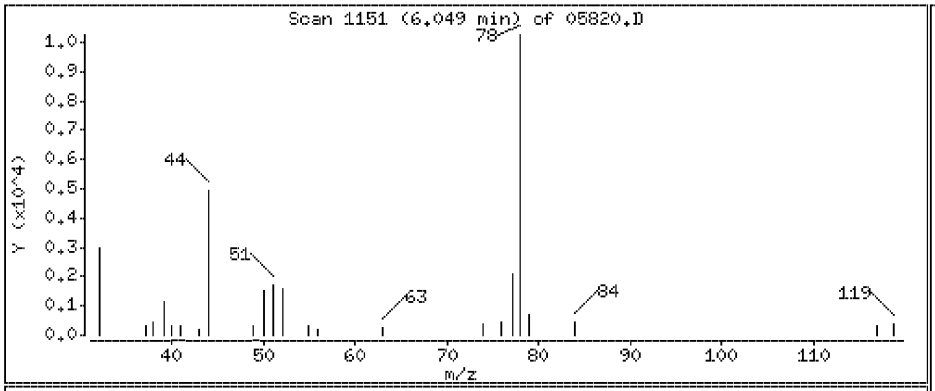
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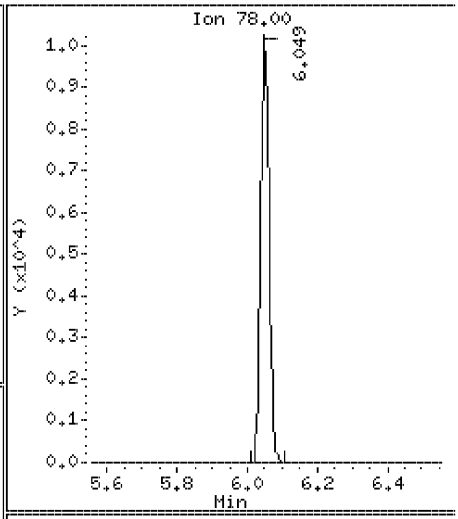
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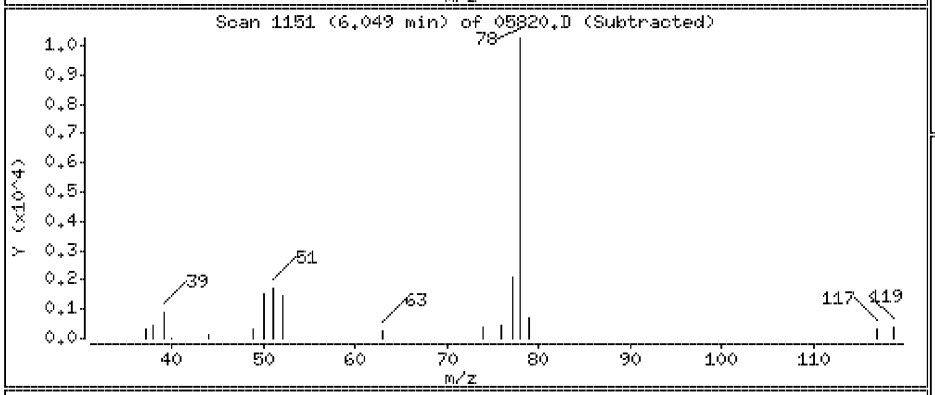
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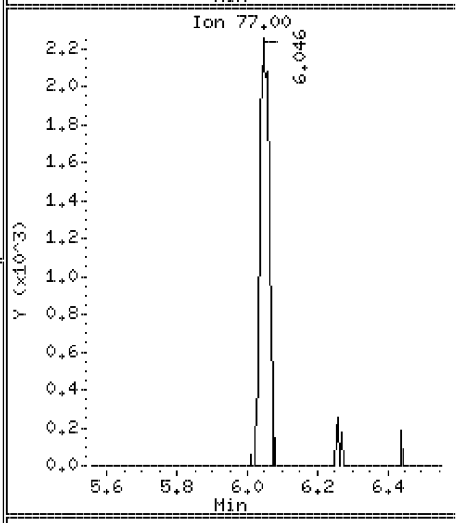
36 Benzene

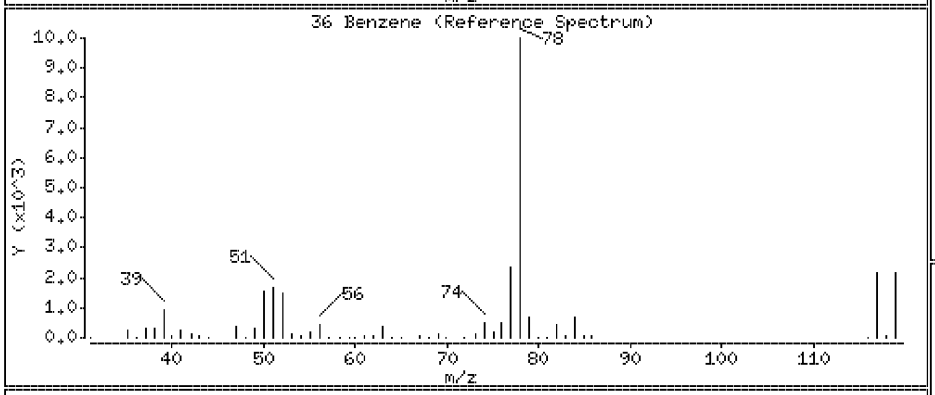
Concentration: 0.283 ppbv

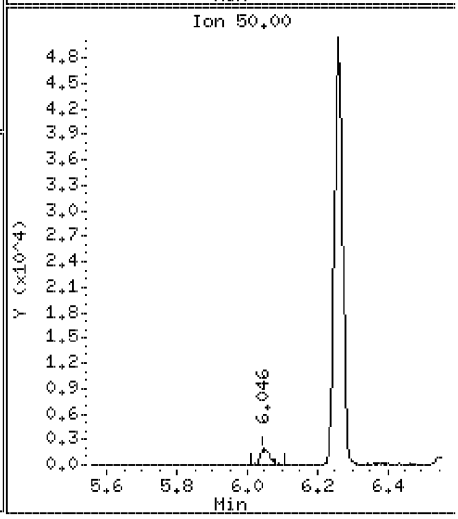


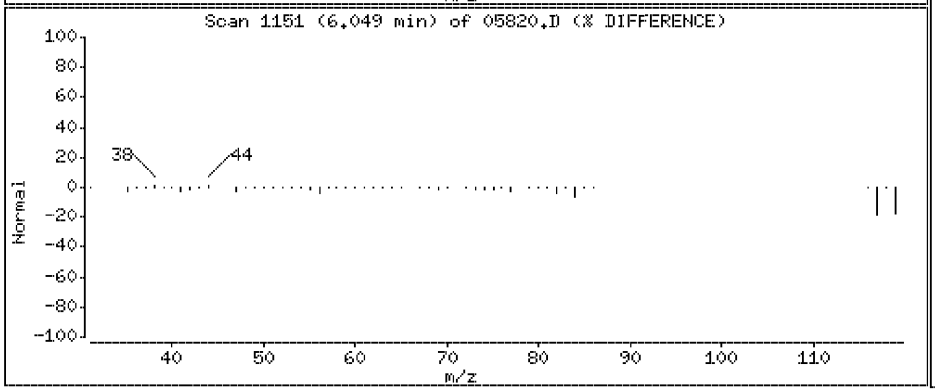












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Date : 27-FEB-2012 21:36

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Instrument: 10airD.i

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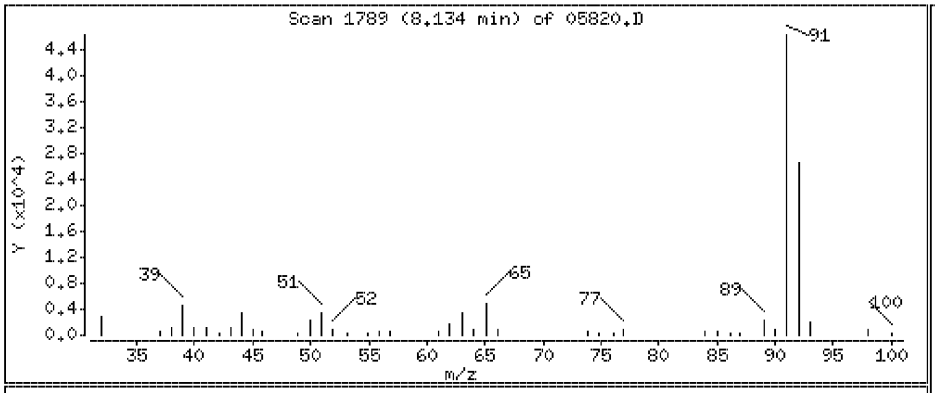
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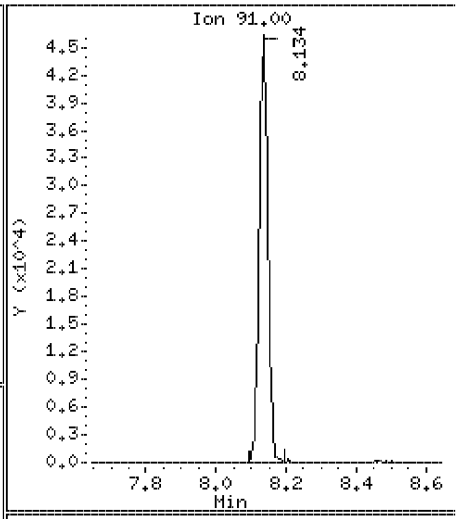
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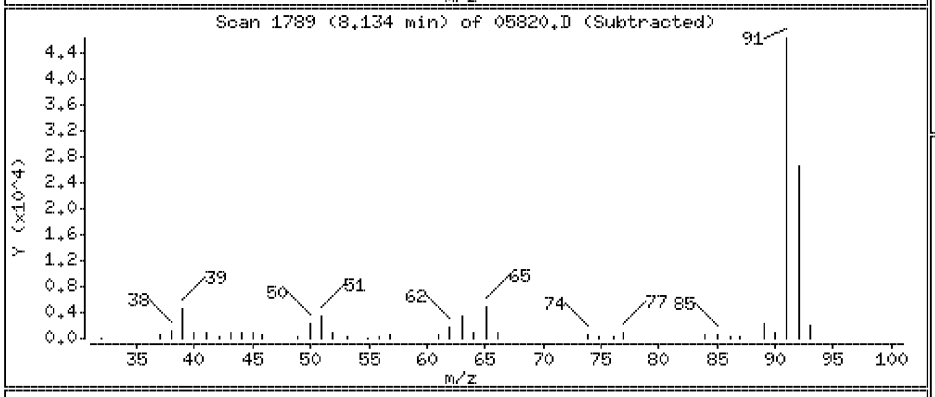
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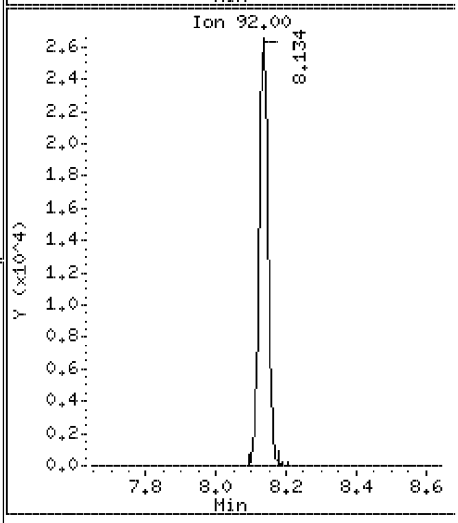
50 Toluene

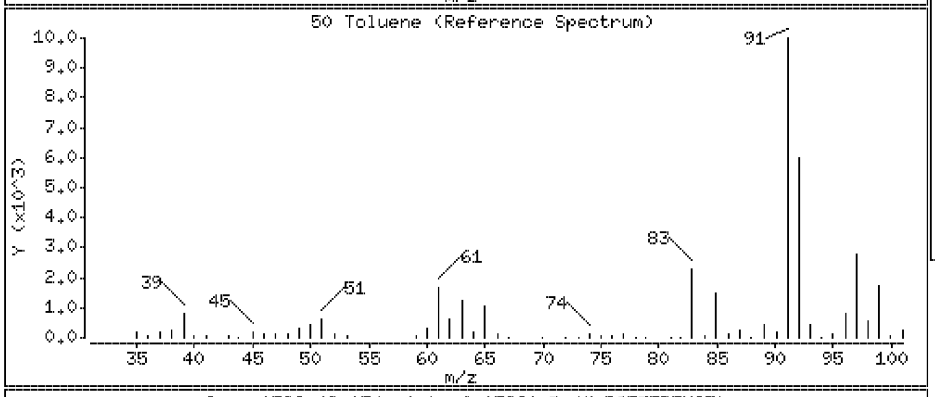
Concentration: 0.970 ppbv

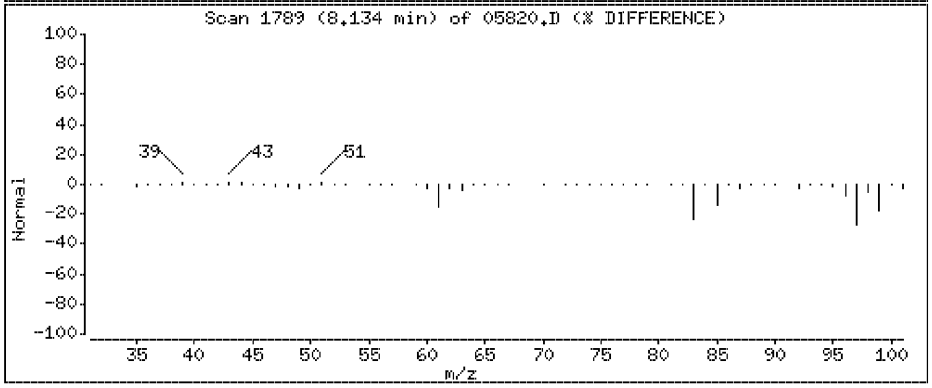












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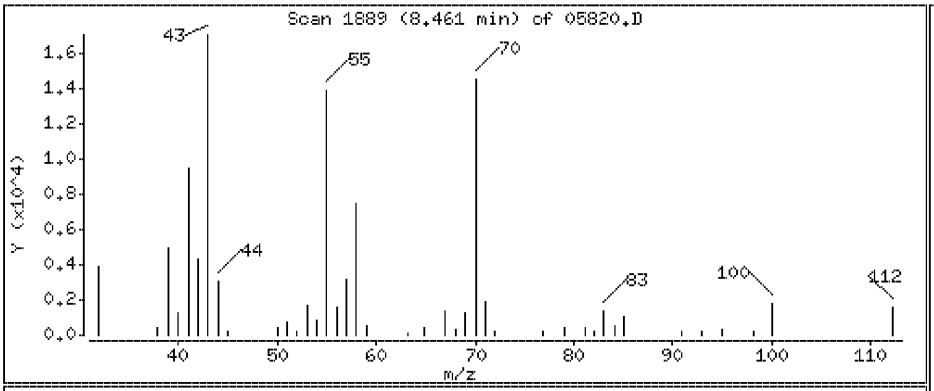
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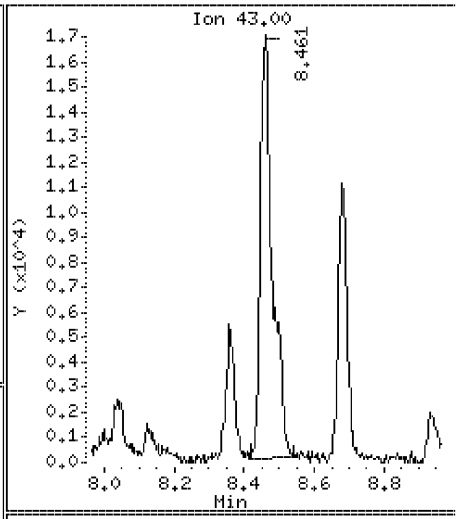
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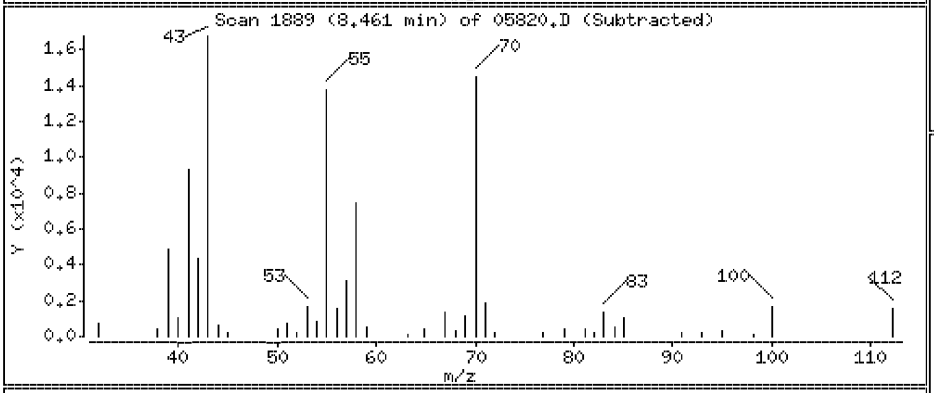
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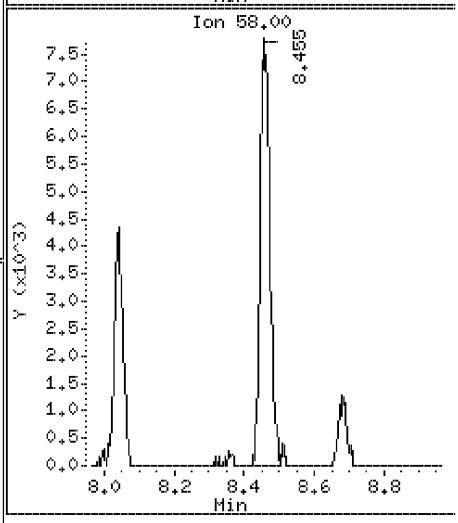
52 Methyl Butyl Ketone

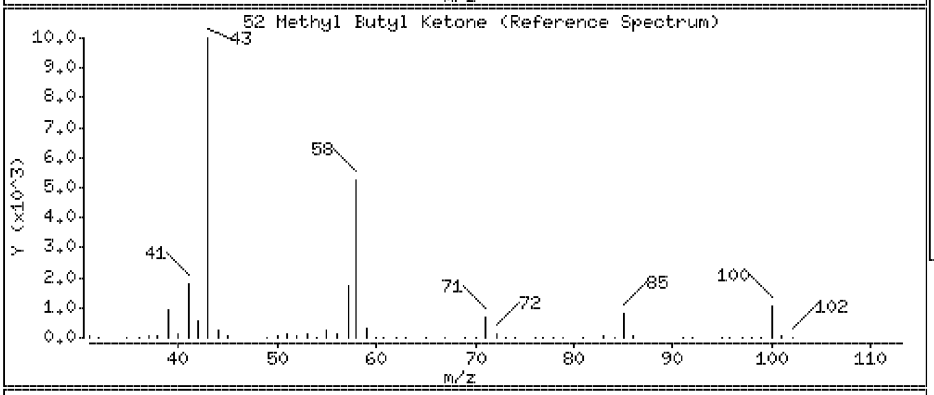
Concentration: 0.578 ppbv

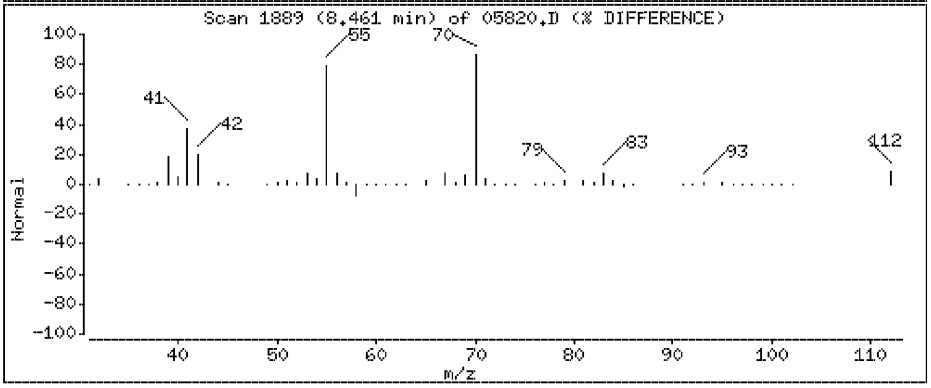












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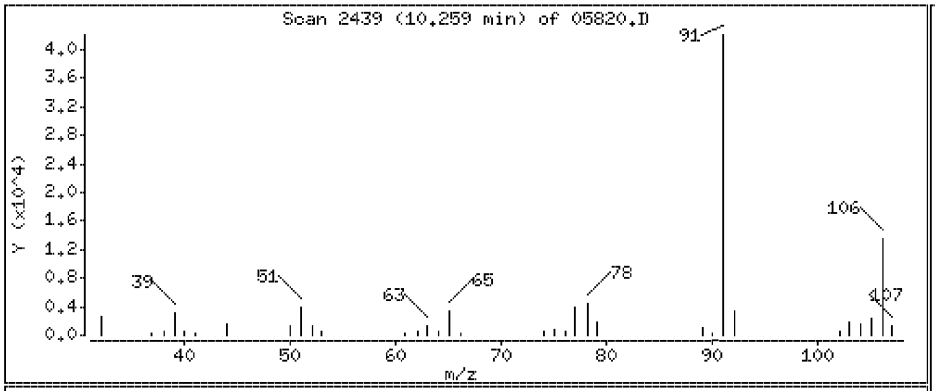
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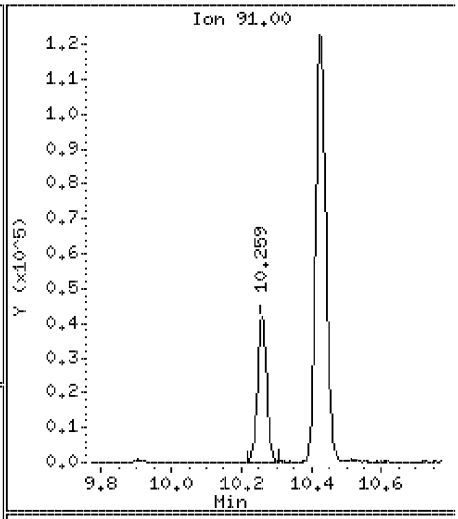
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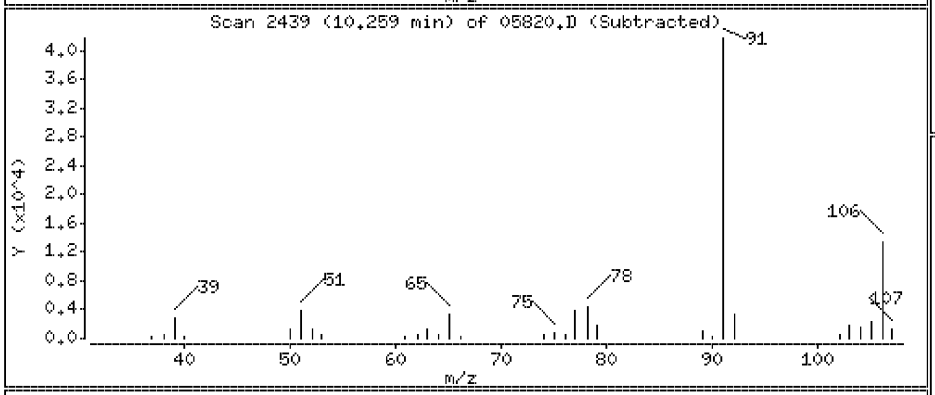
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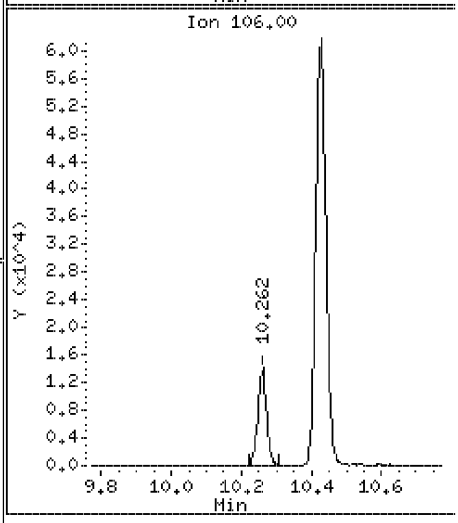
58 Ethyl Benzene

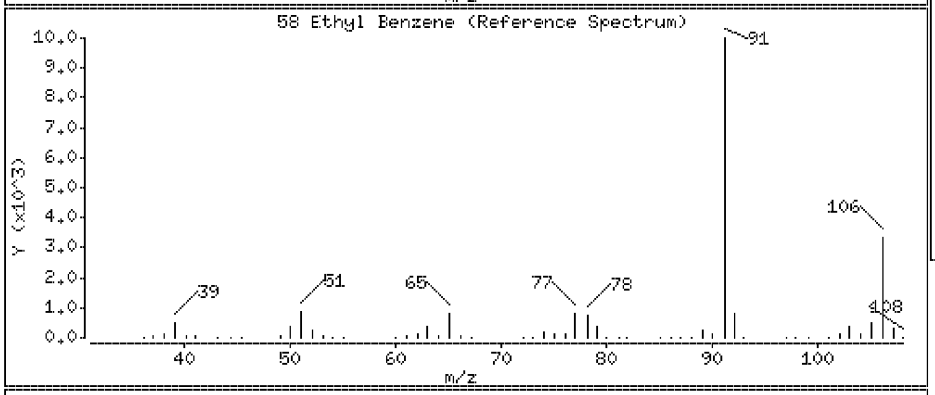
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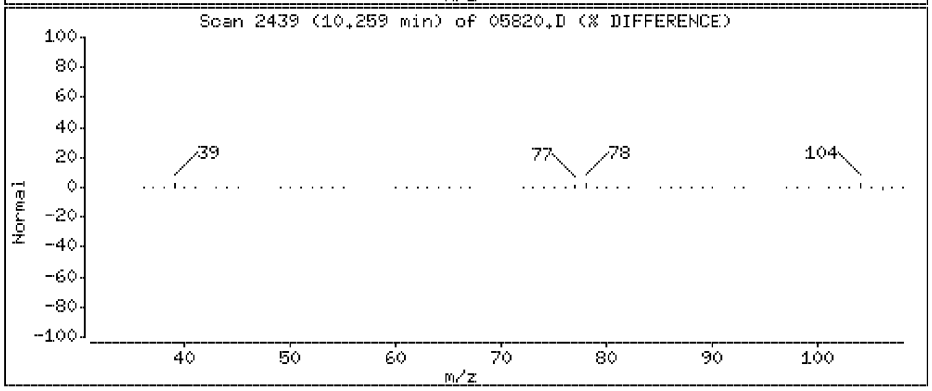












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Date : 27-FEB-2012 21:36

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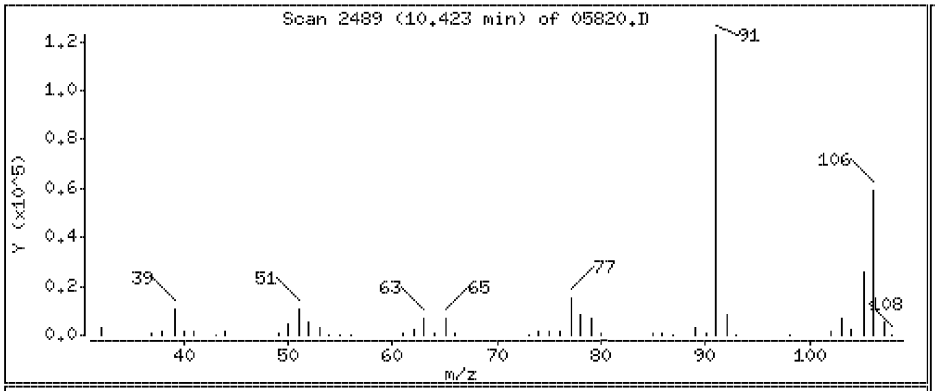
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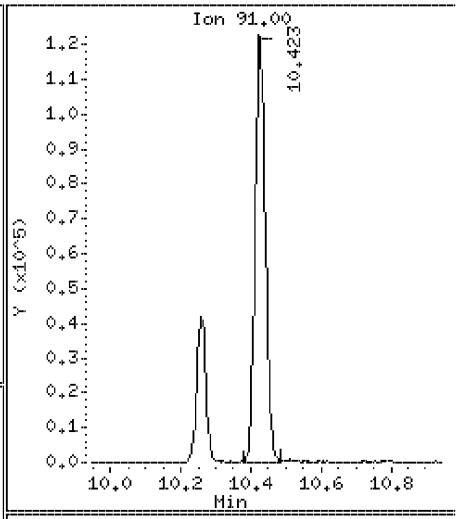
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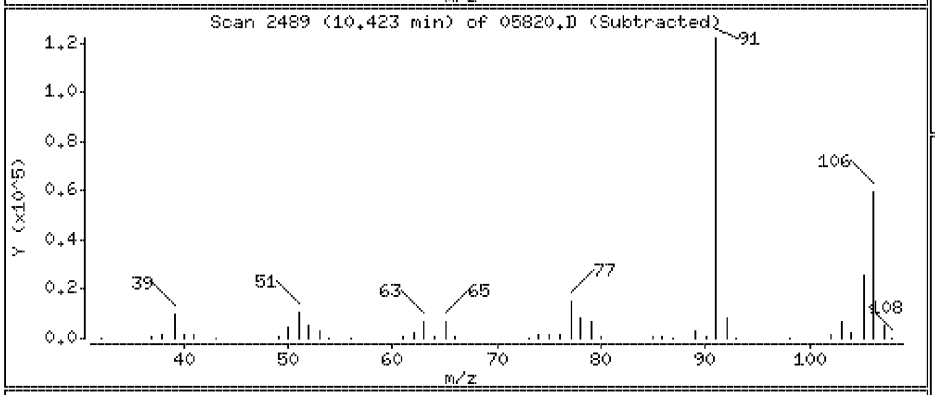
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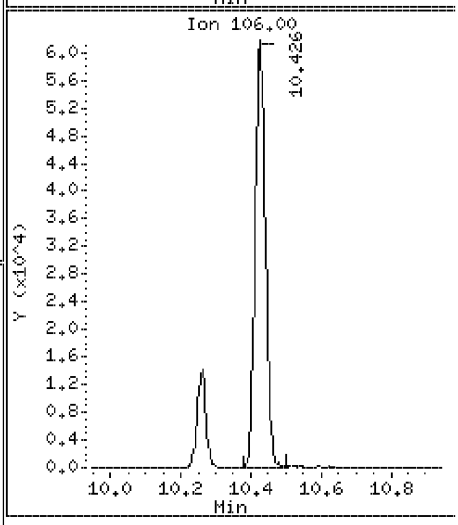
59 m&p-Xylene

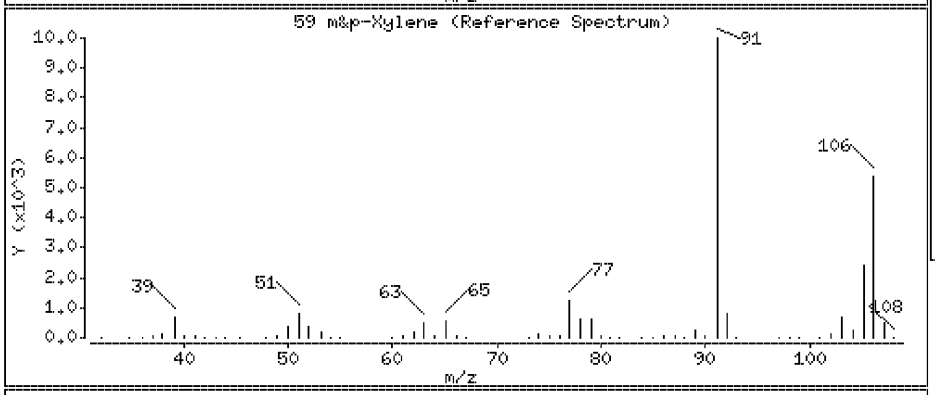
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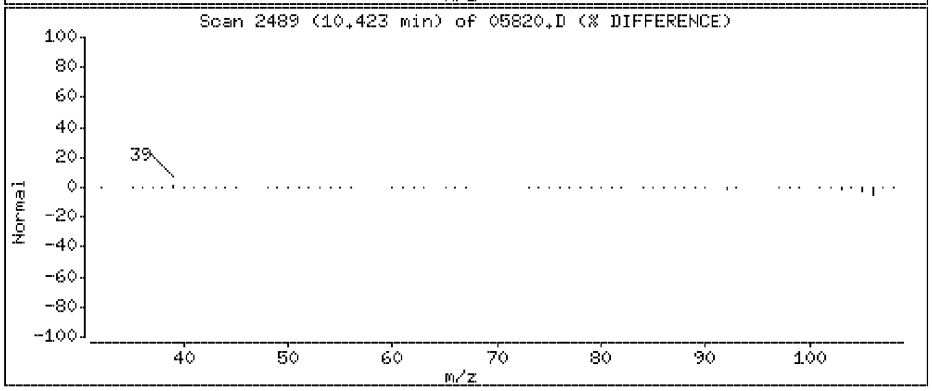












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Instrument: 10airD.i

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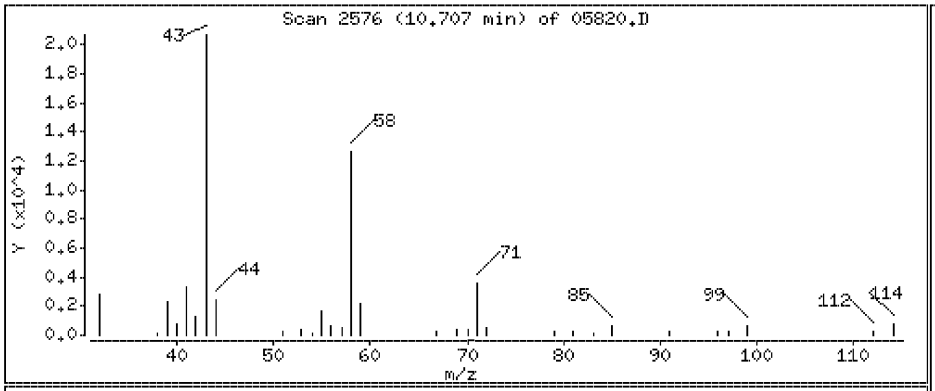
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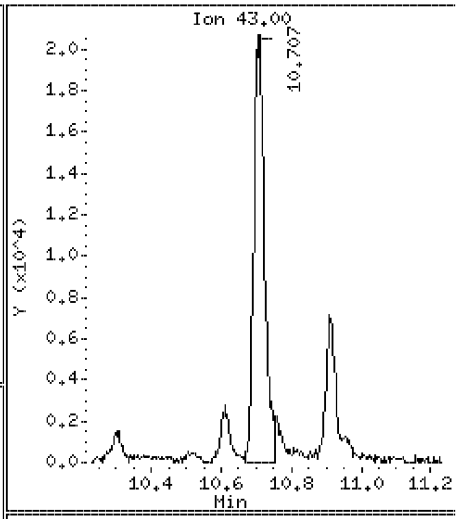
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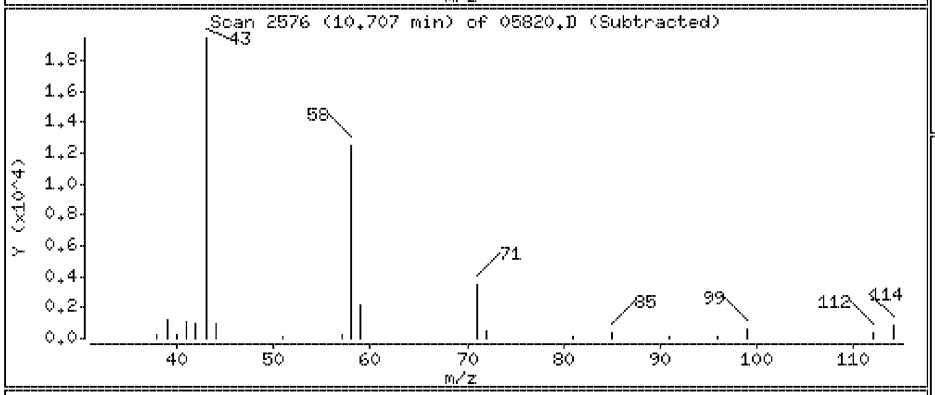
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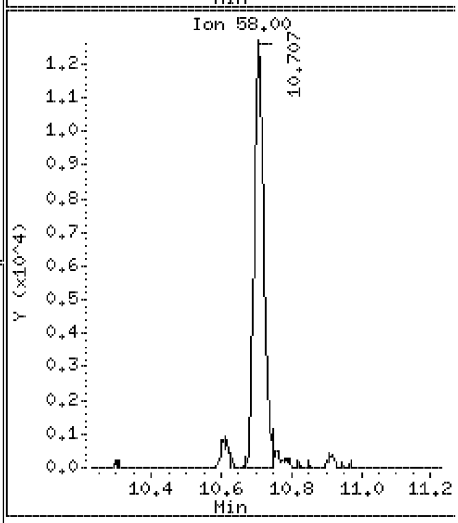
60 2-Heptanone

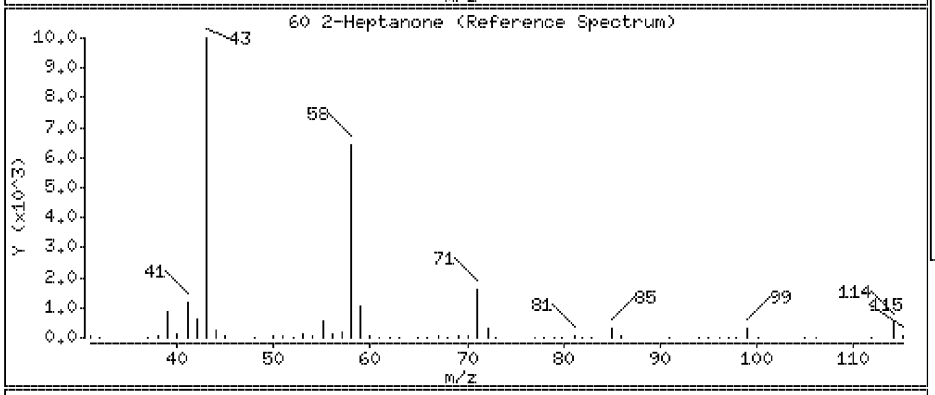
Concentration: 0.656 ppbv

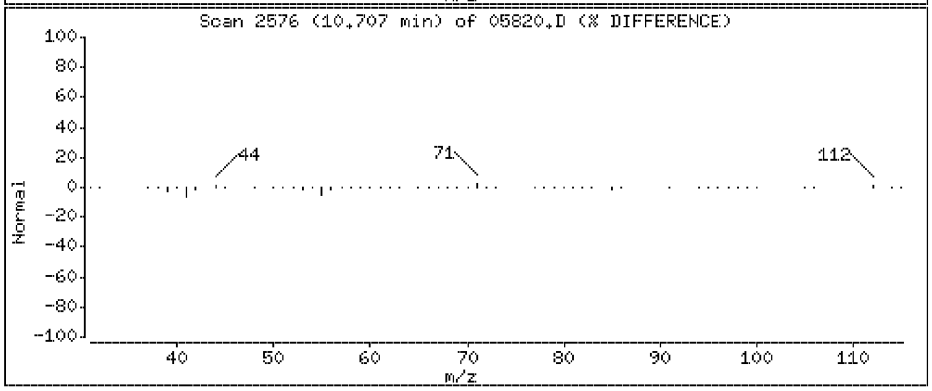












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

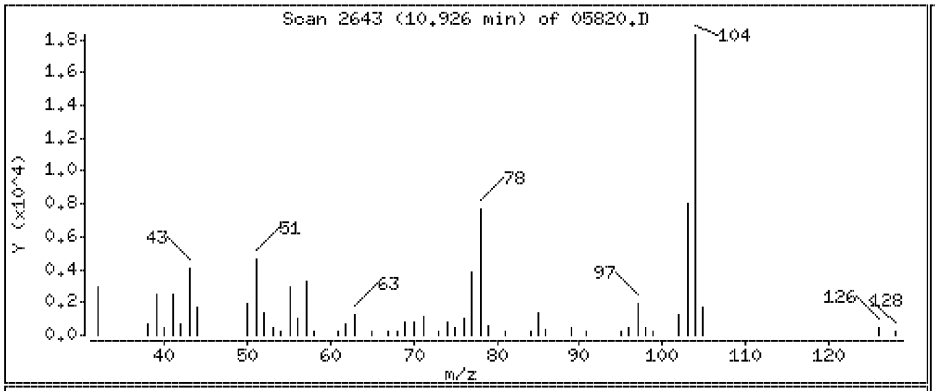
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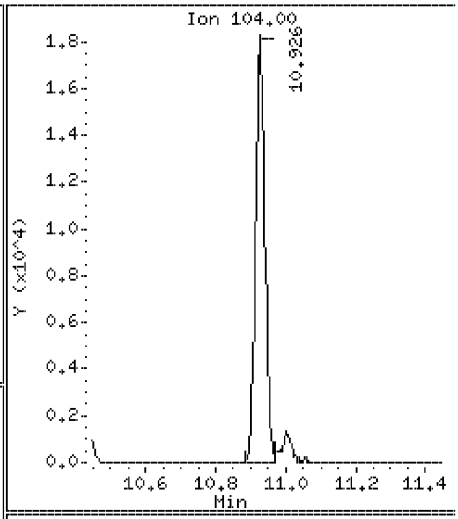
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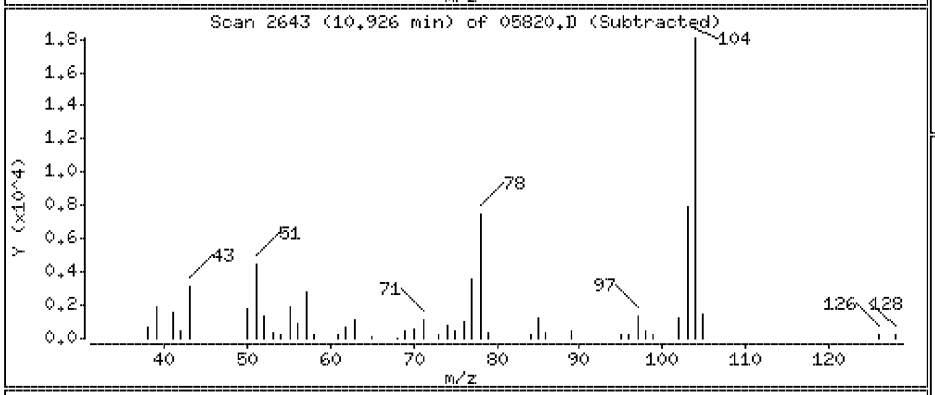
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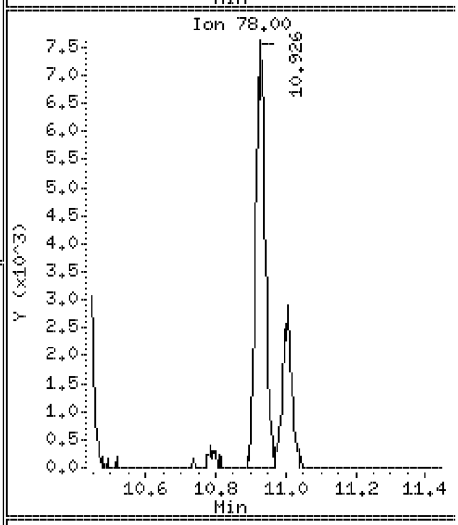
62 Styrene

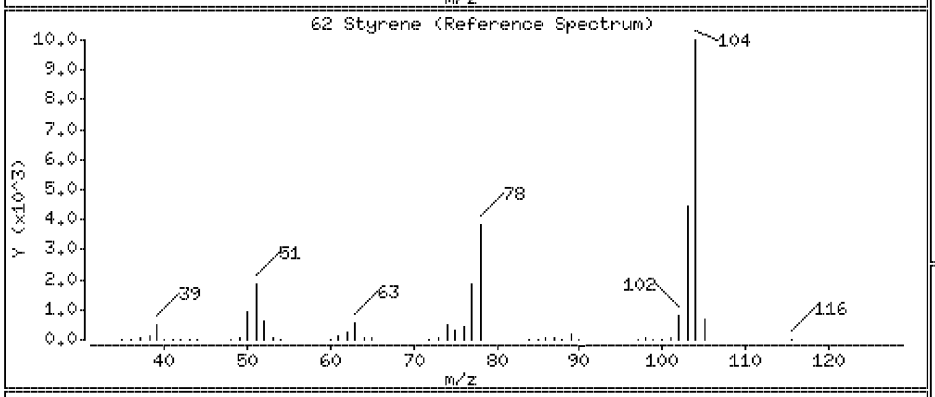
Concentration: 0.666 ppbv

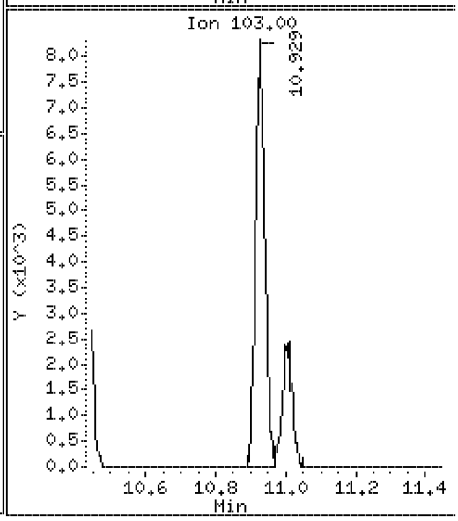


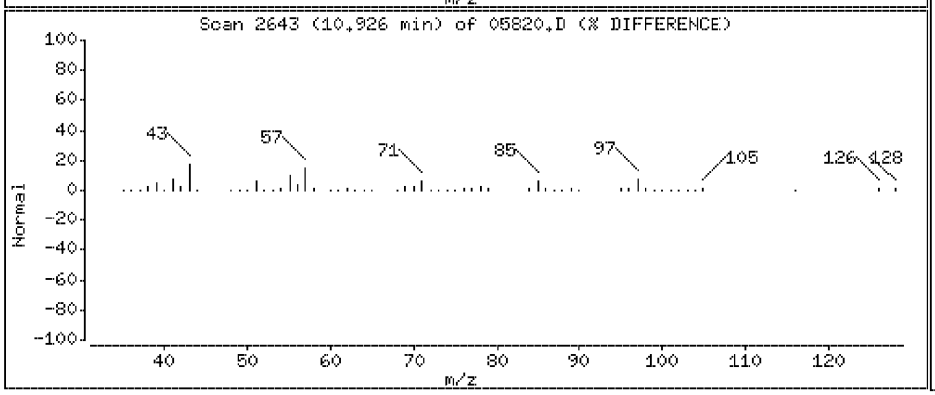












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

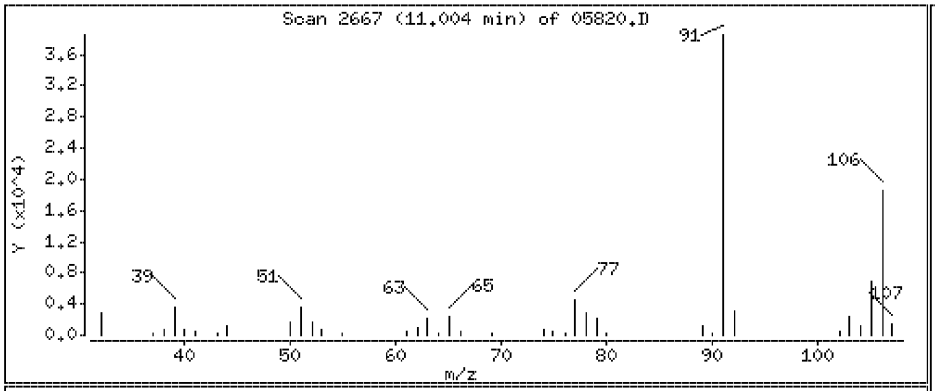
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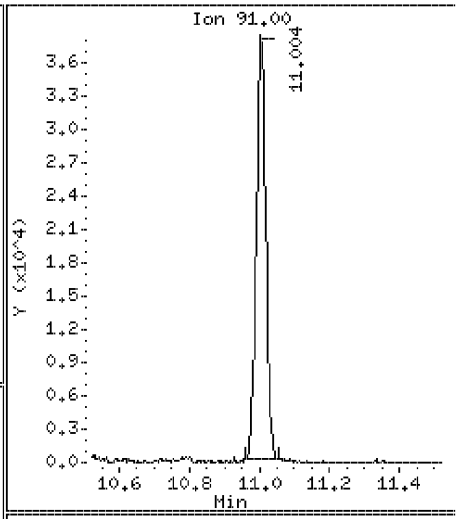
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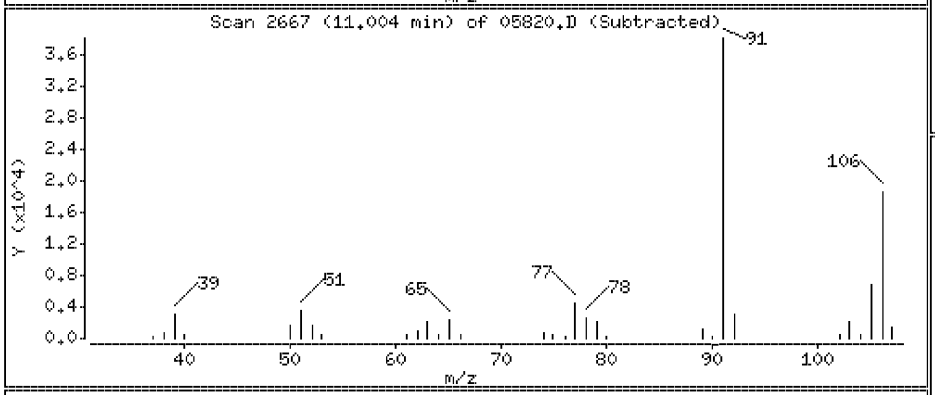
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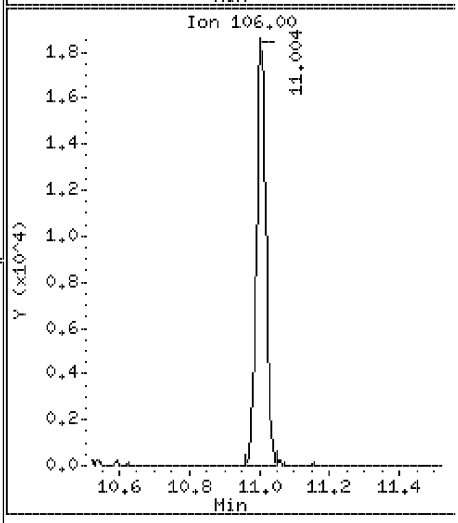
63 o-Xylene

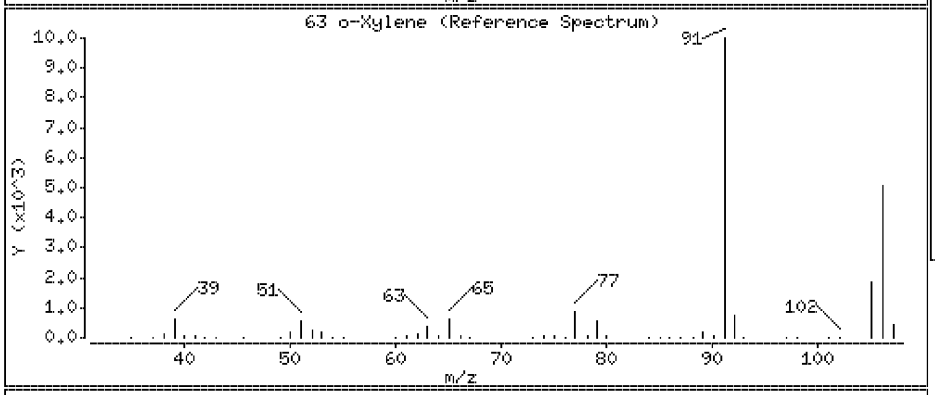
Concentration: 1.07 ppbv

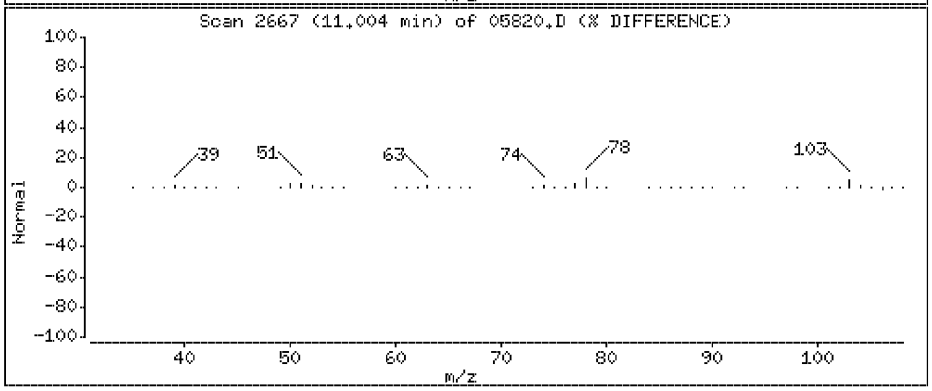












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Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

Sample Info:

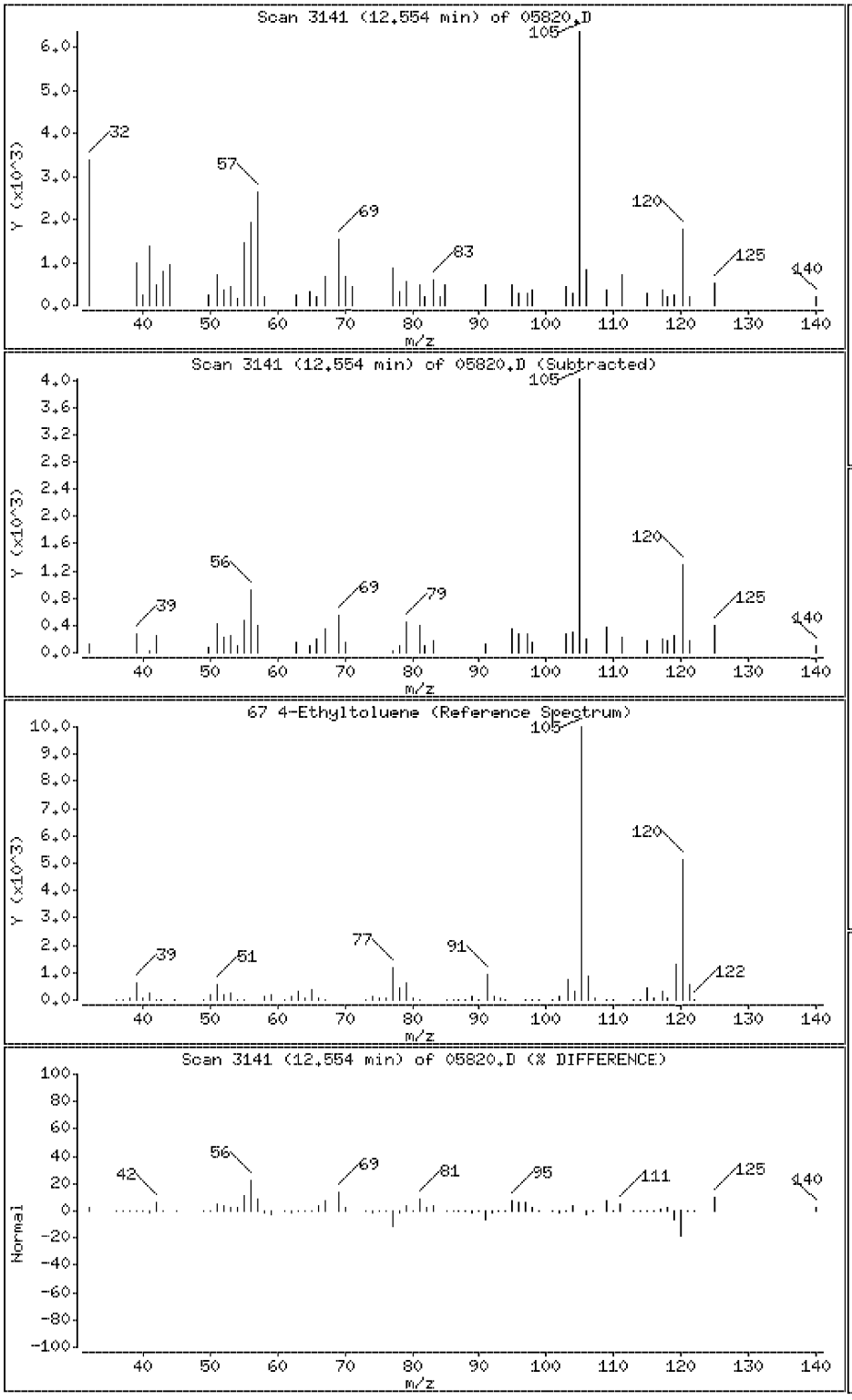
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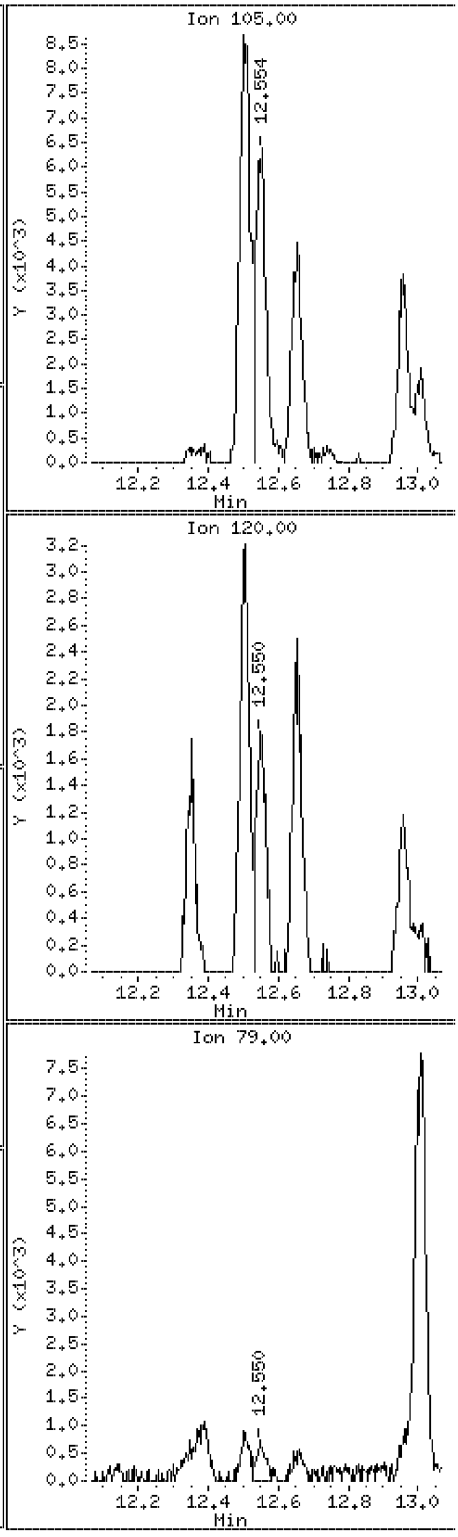
Column phase: J&W DB-5

Column diameter: 0.32

67 4-Ethyltoluene

Concentration: 0.354 ppbv





Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

Client ID:

Instrument: 10airD.i

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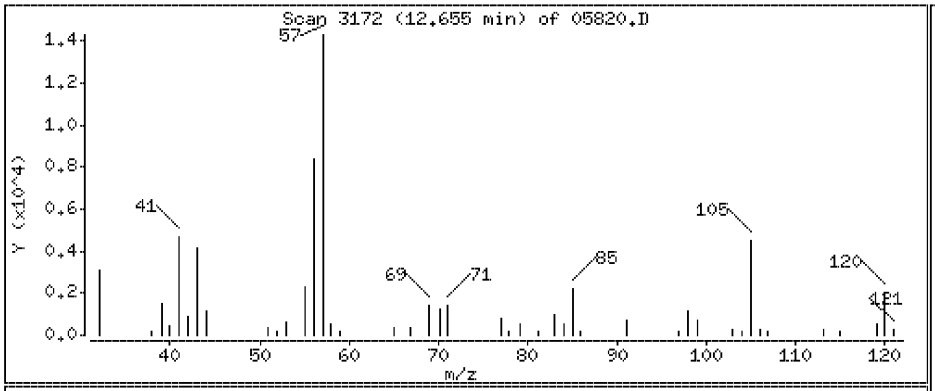
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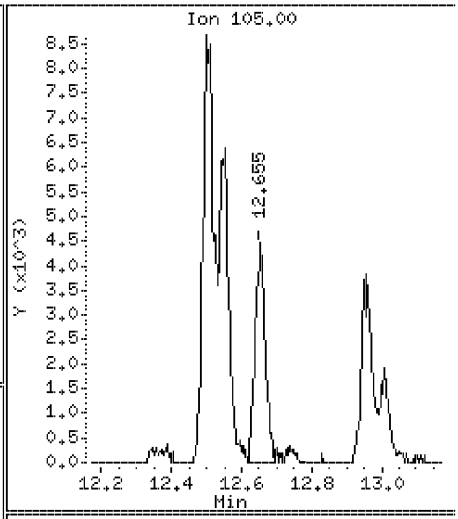
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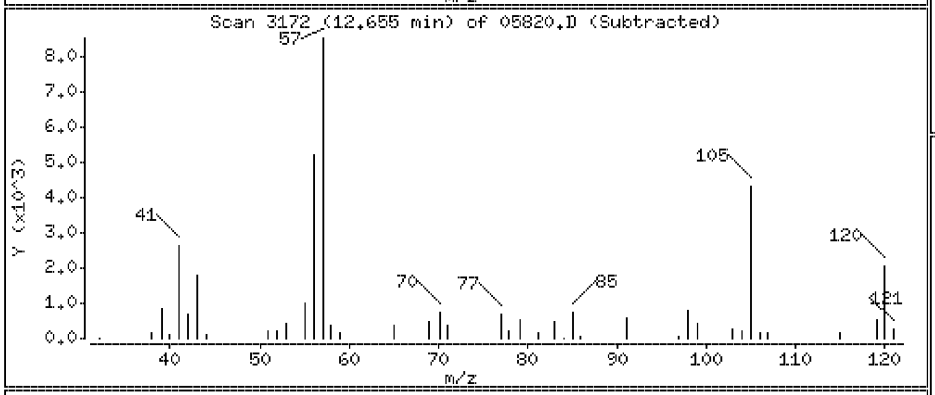
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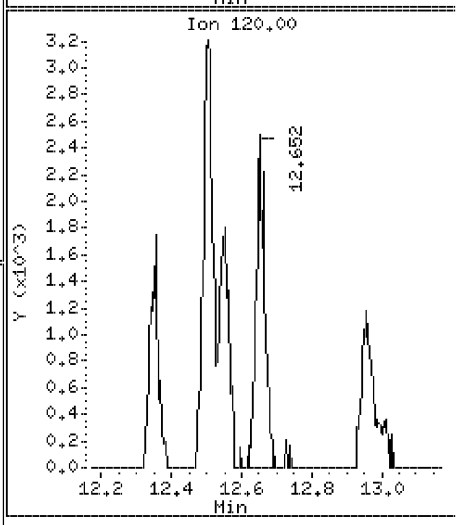
68 1,3,5-Trimethylbenzene

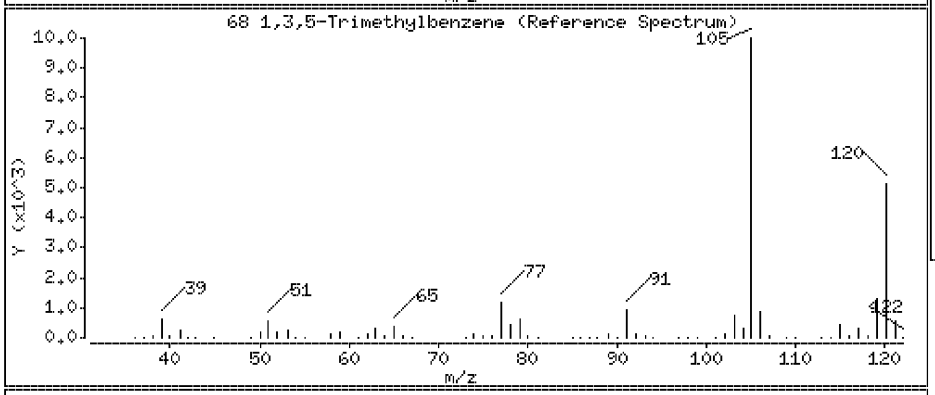
Concentration: 0.260 ppbv

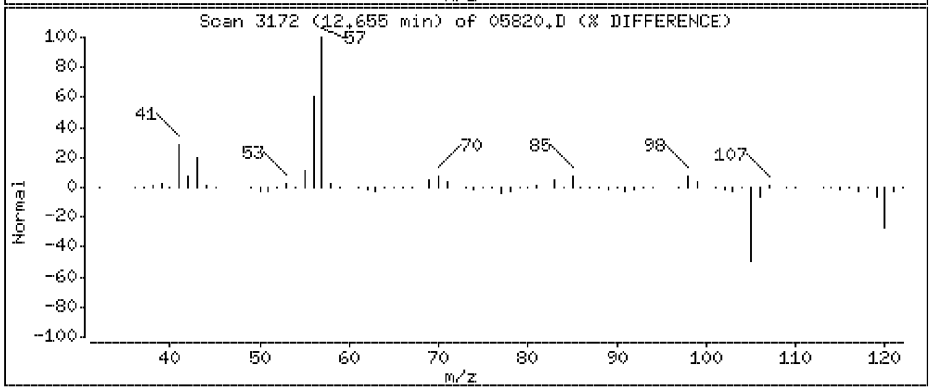












Data File: \\192.168.10.12\chem\10airD.i\022712.B\05820.D

Date : 27-FEB-2012 21:36

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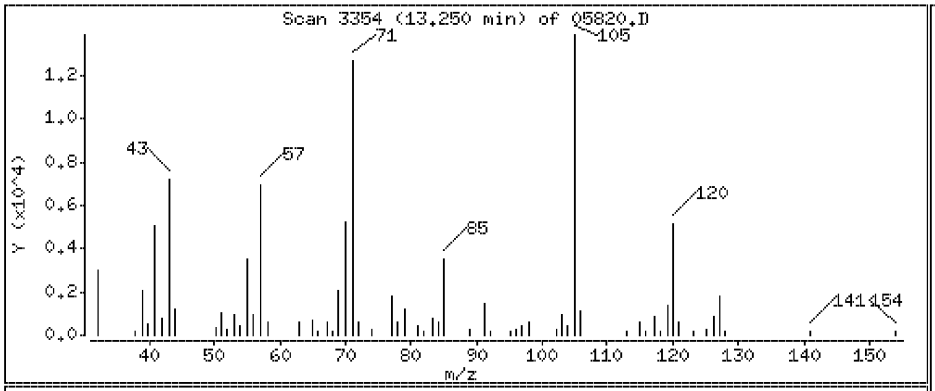
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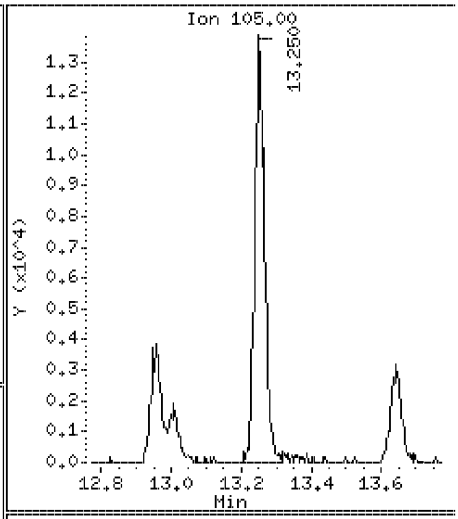
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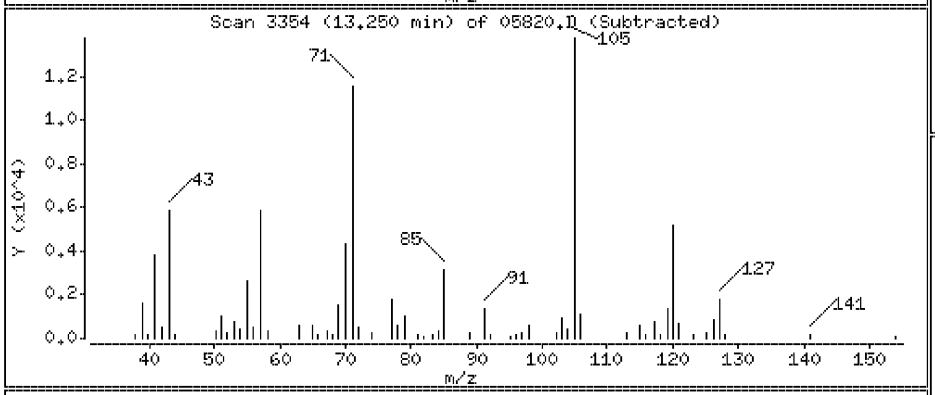
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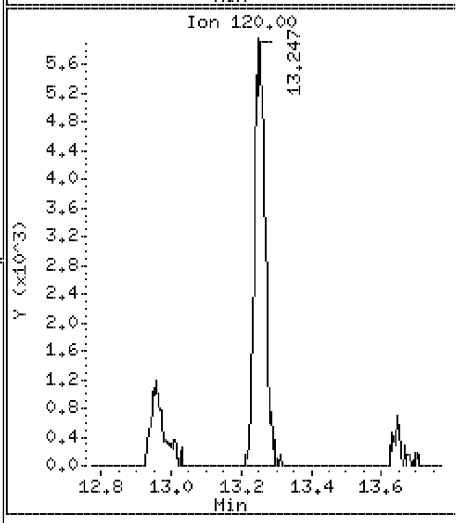
69 1,2,4-Trimethylbenzene

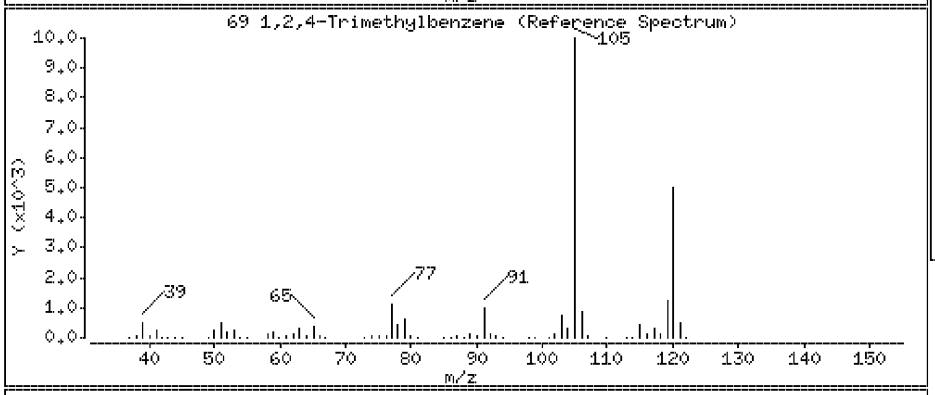
Concentration: 0.549 ppbv

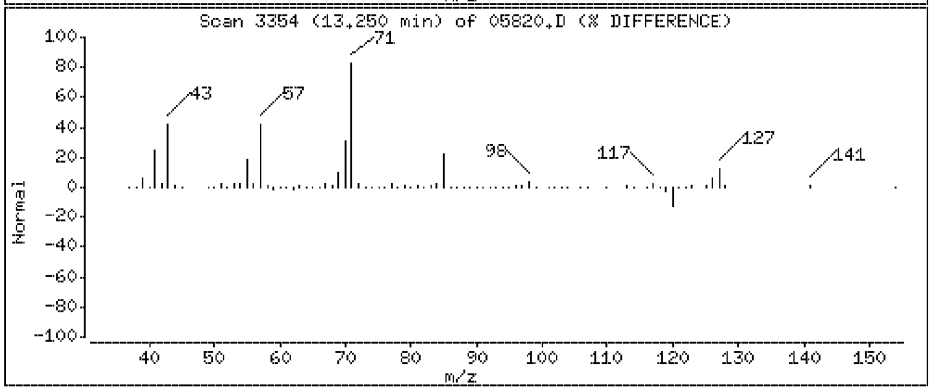












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Date : 27-FEB-2012 21:36

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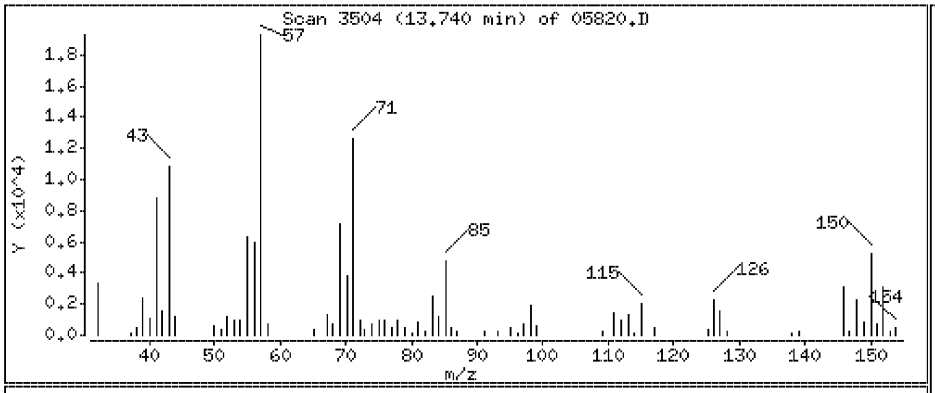
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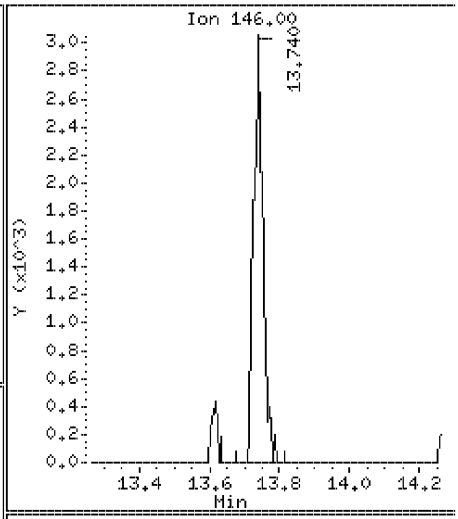
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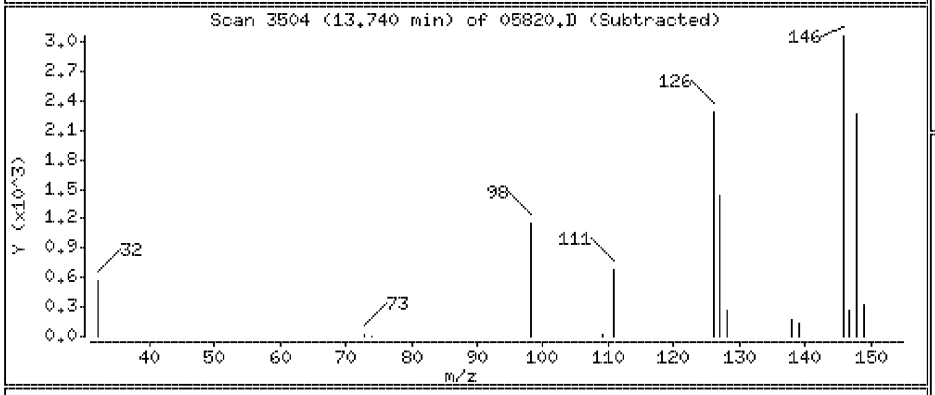
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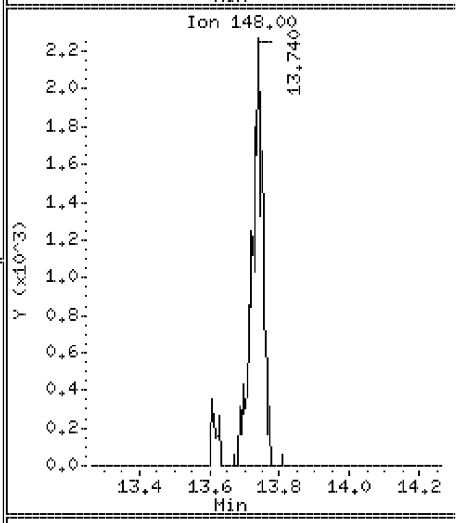
74 1,4-Dichlorobenzene

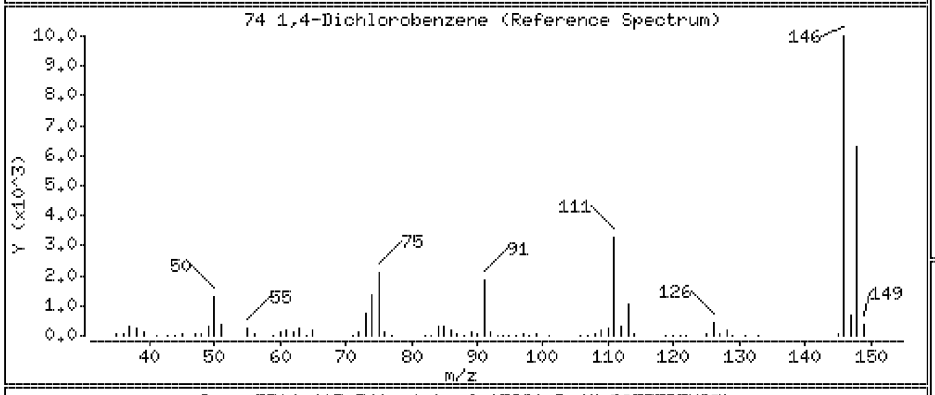
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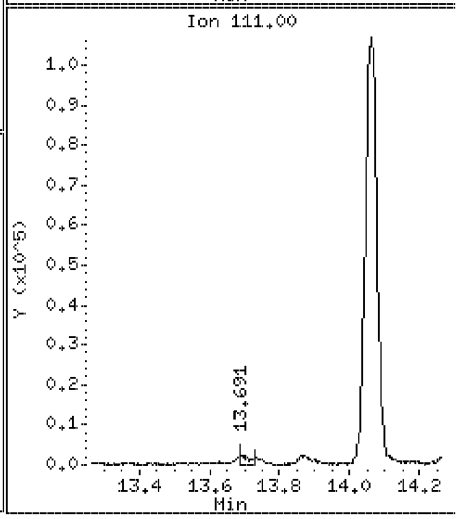


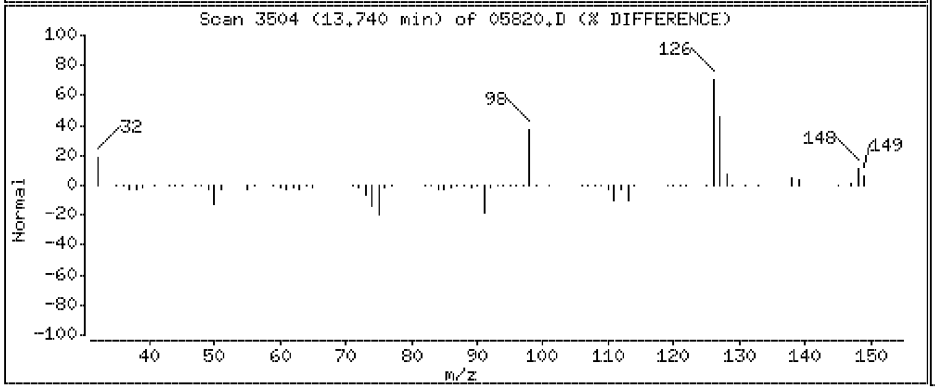






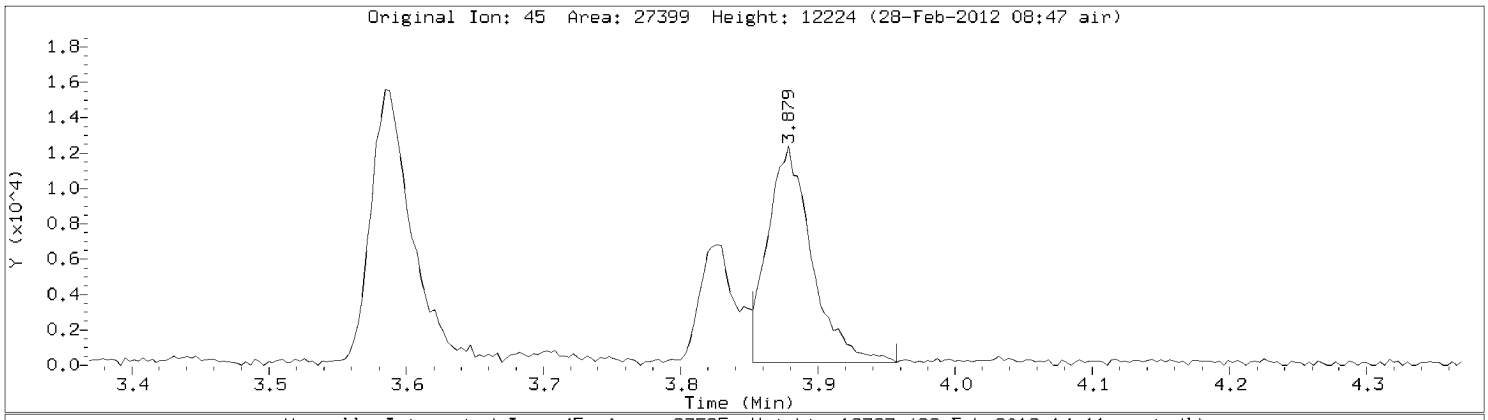


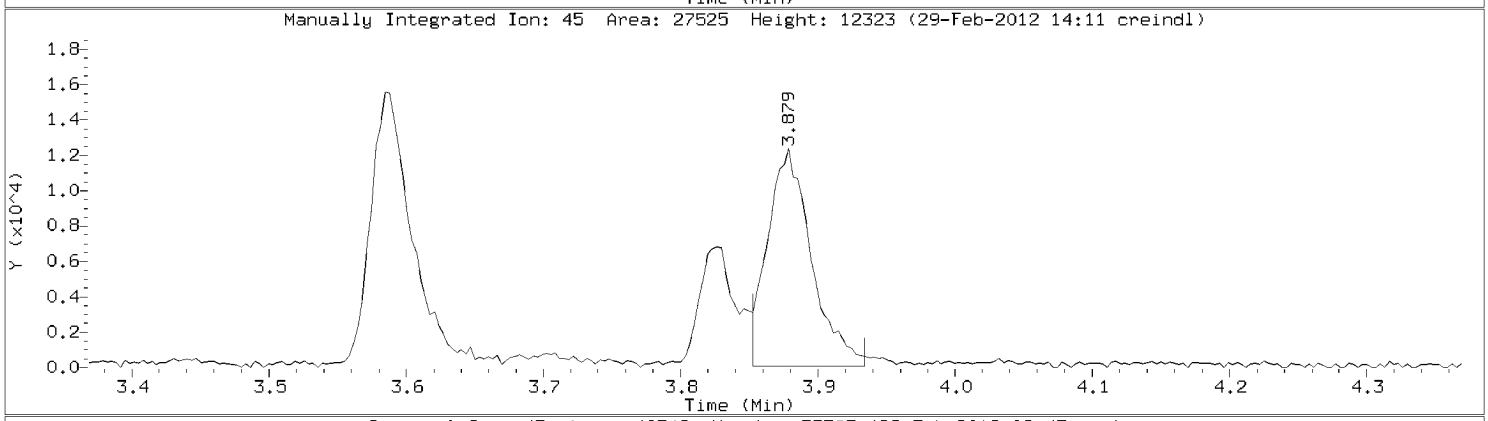


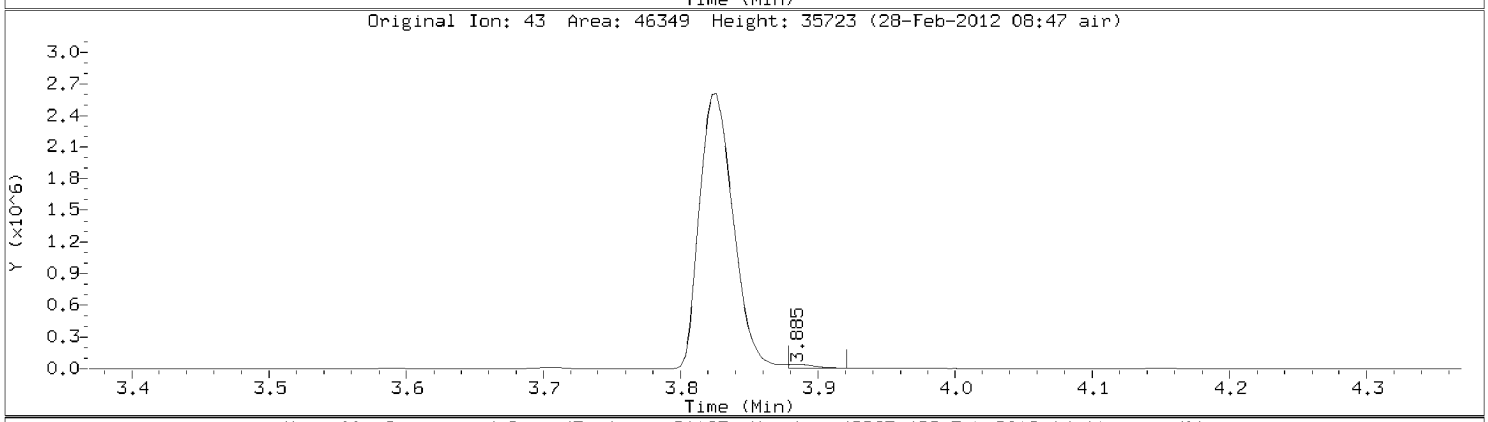


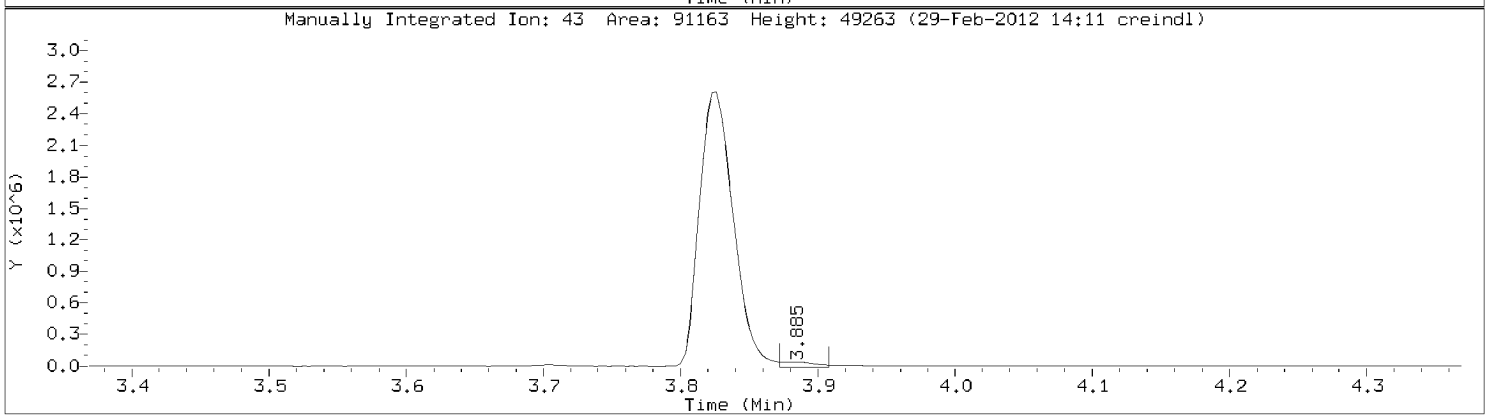
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Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



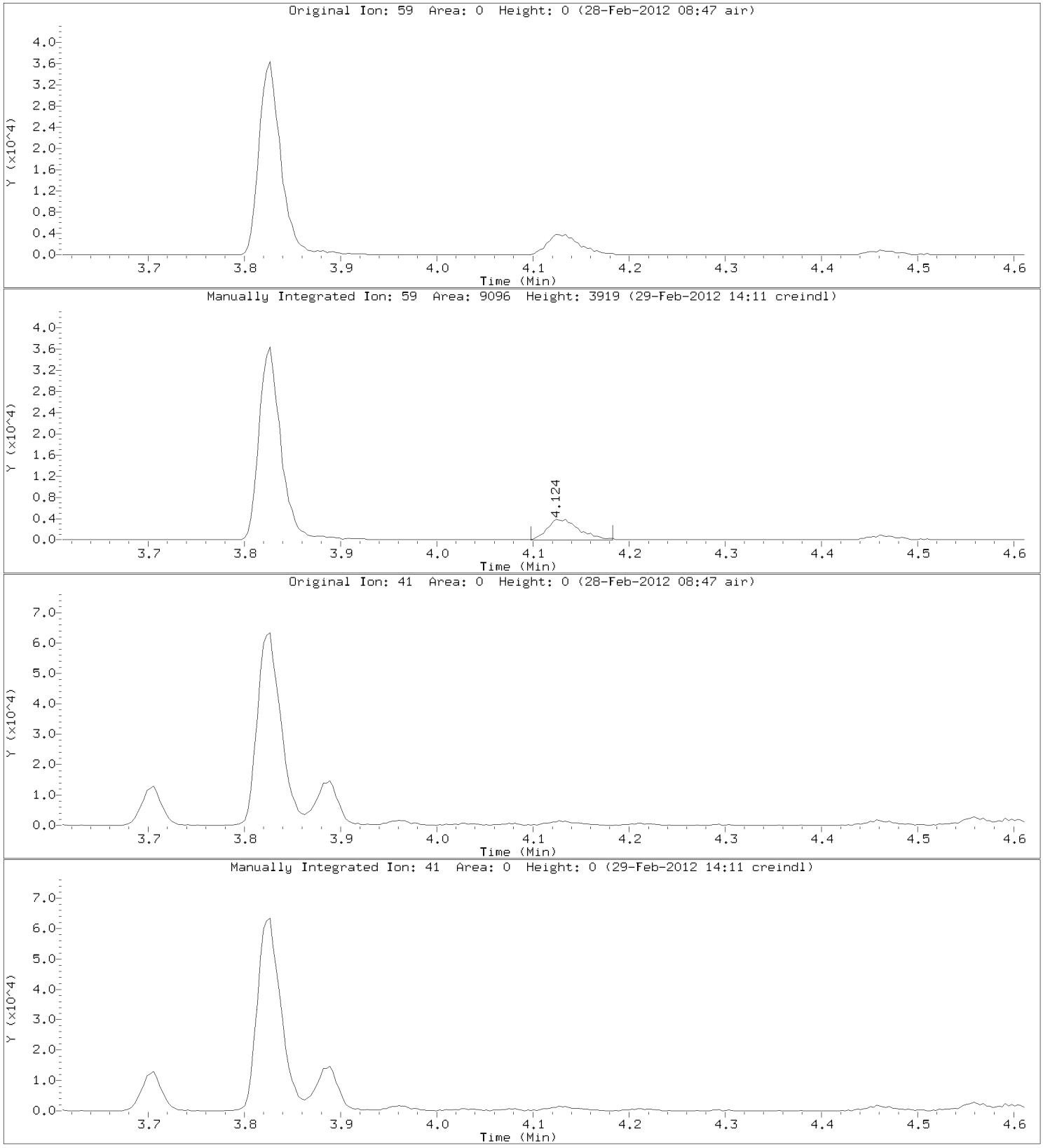






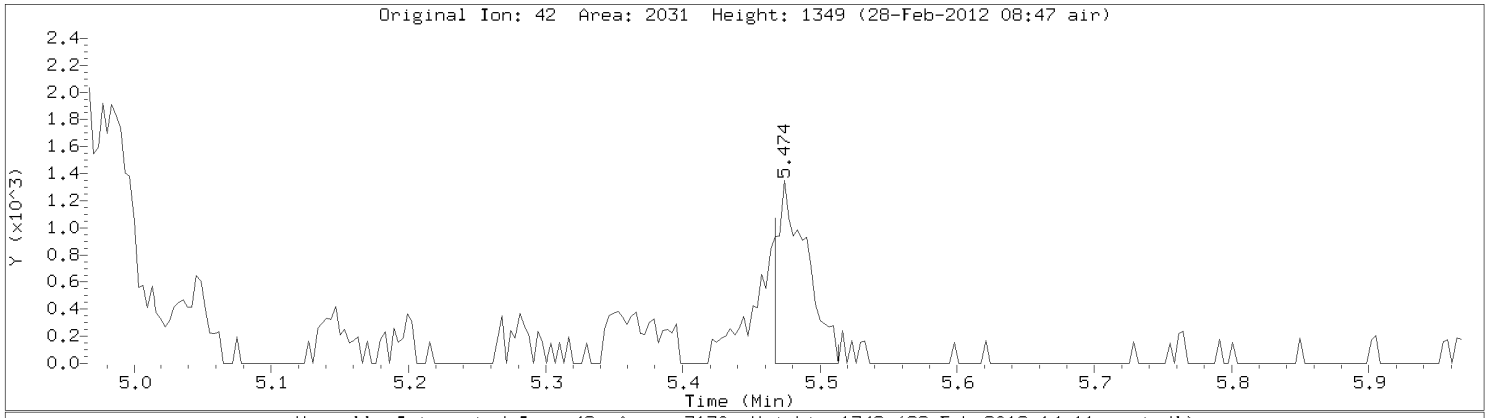
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Instrument: 10airD.i
Lab Sample ID: 5058707005

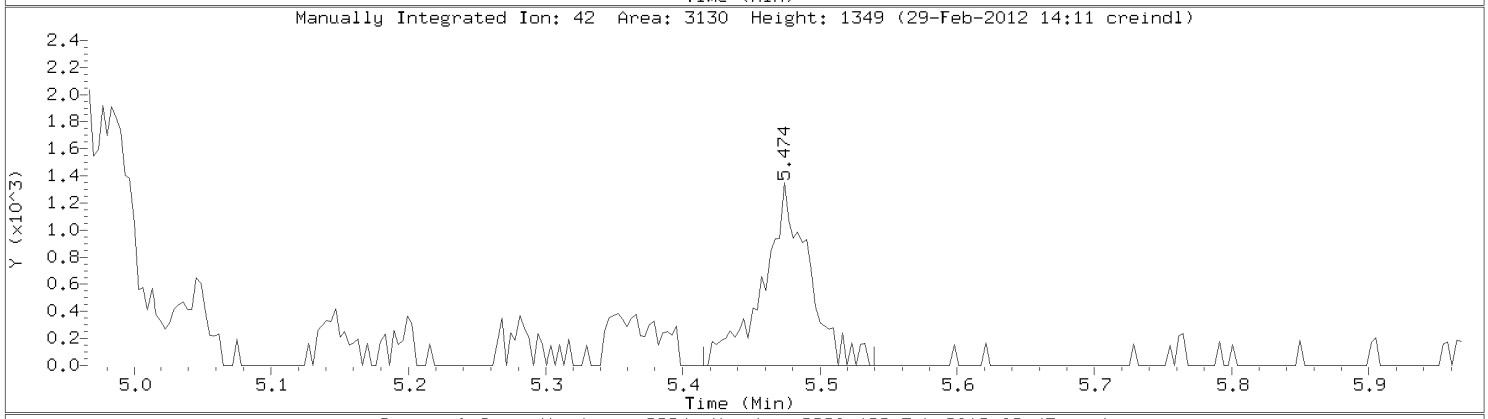
Compound: Tert Butyl Alcohol
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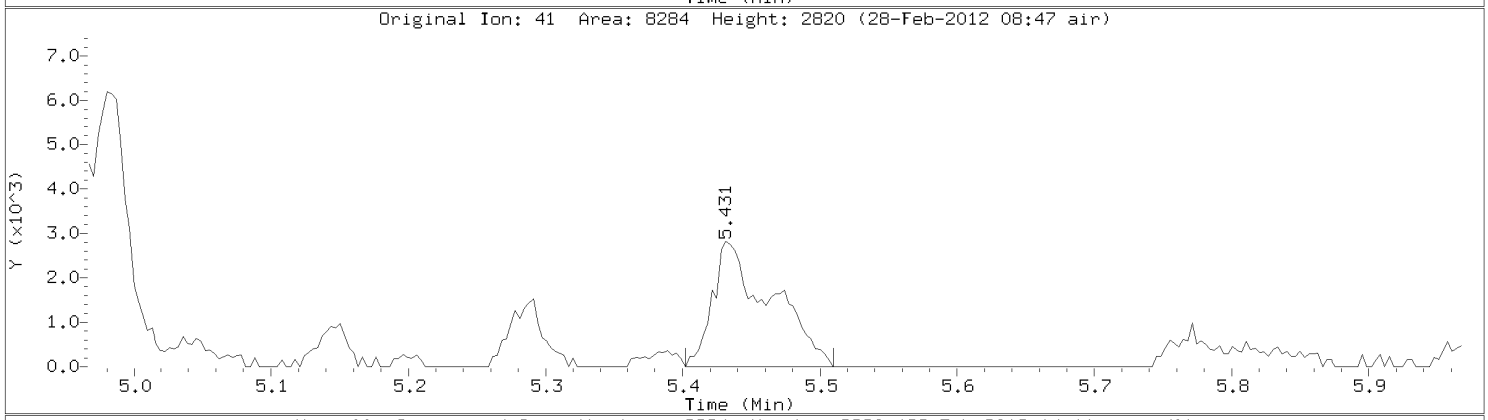


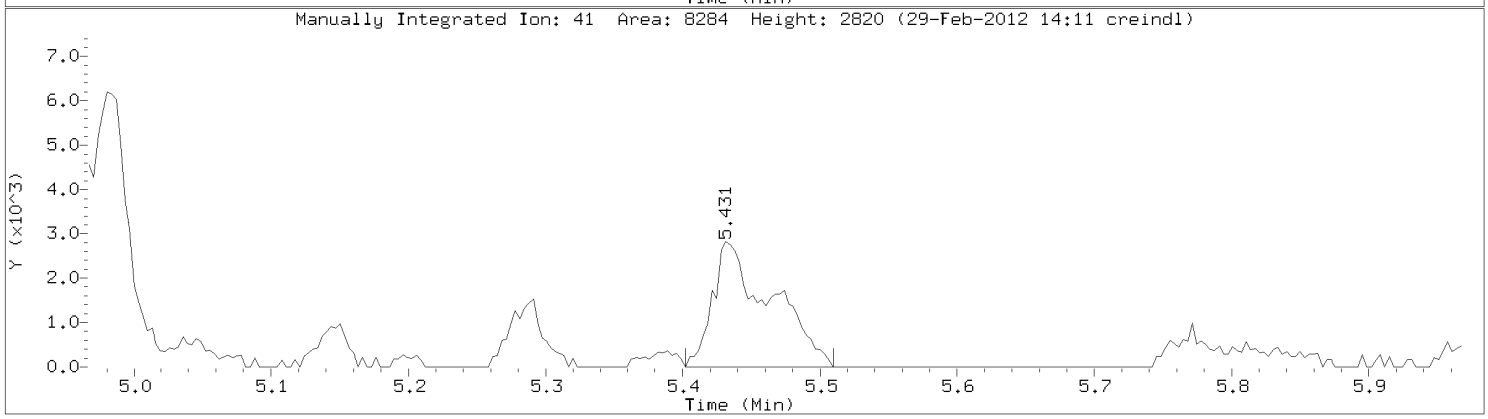
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Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005

Compound: Tetrahydrofuran
CAS Number: 109-99-9

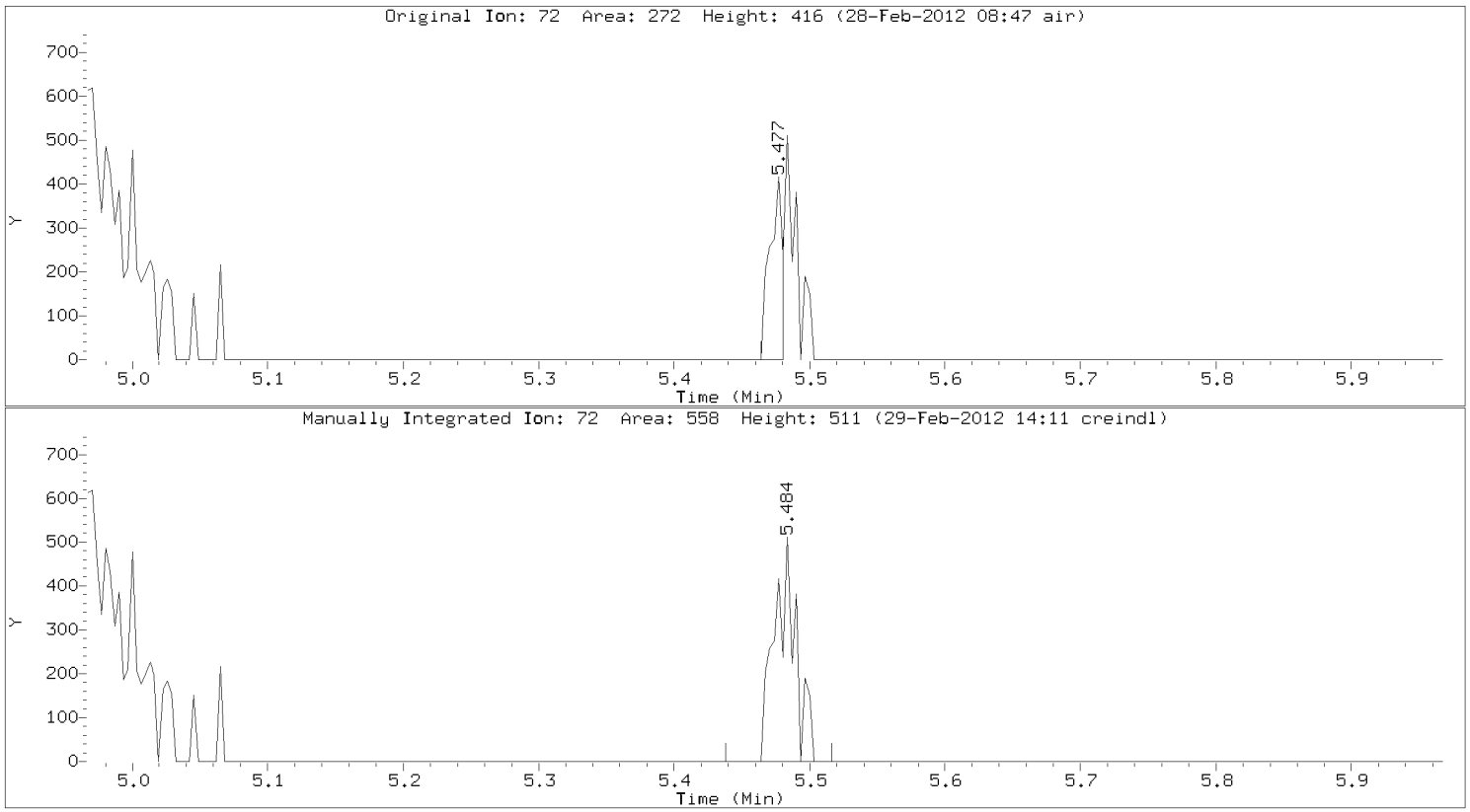






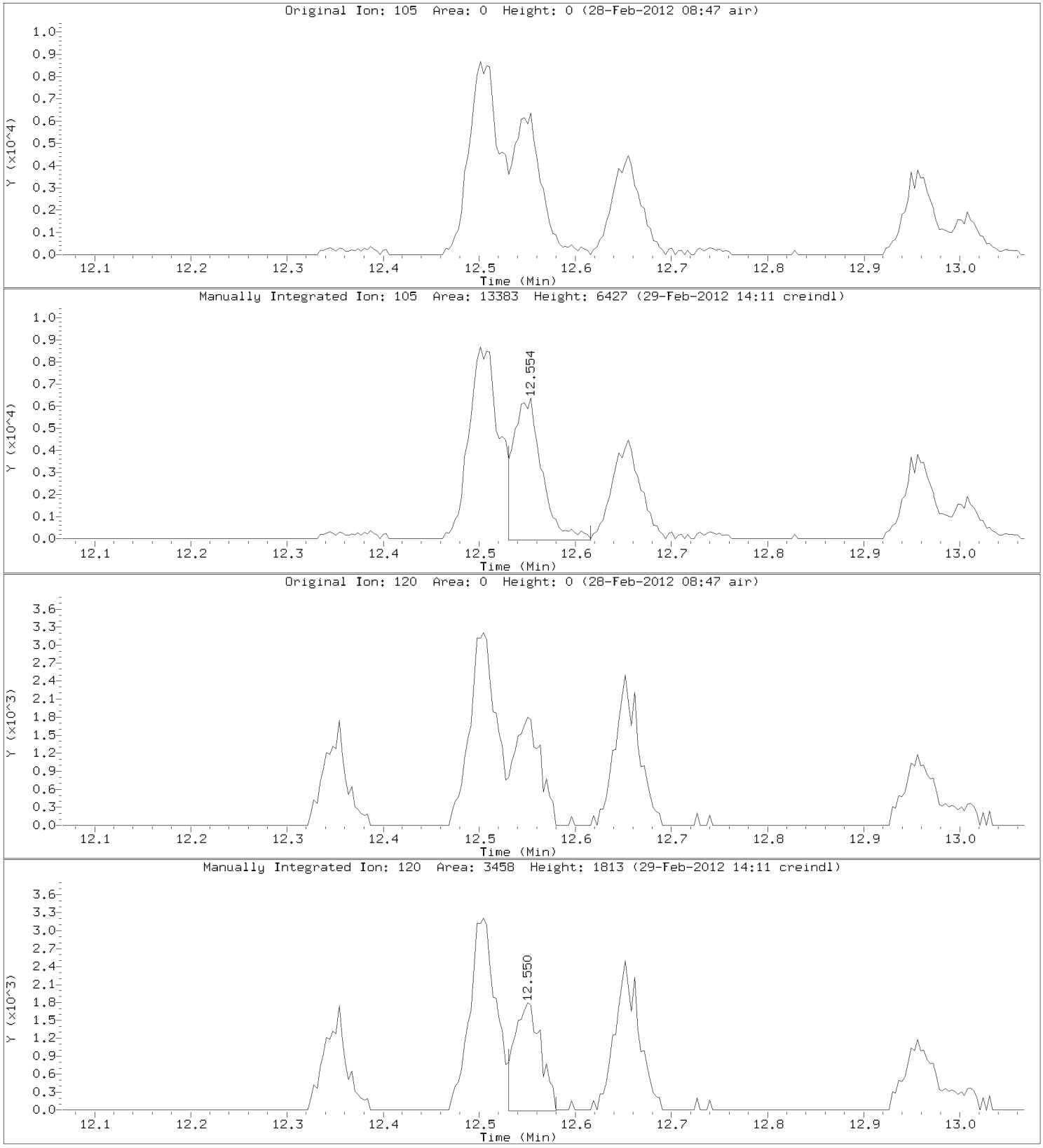


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05820.D
Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005

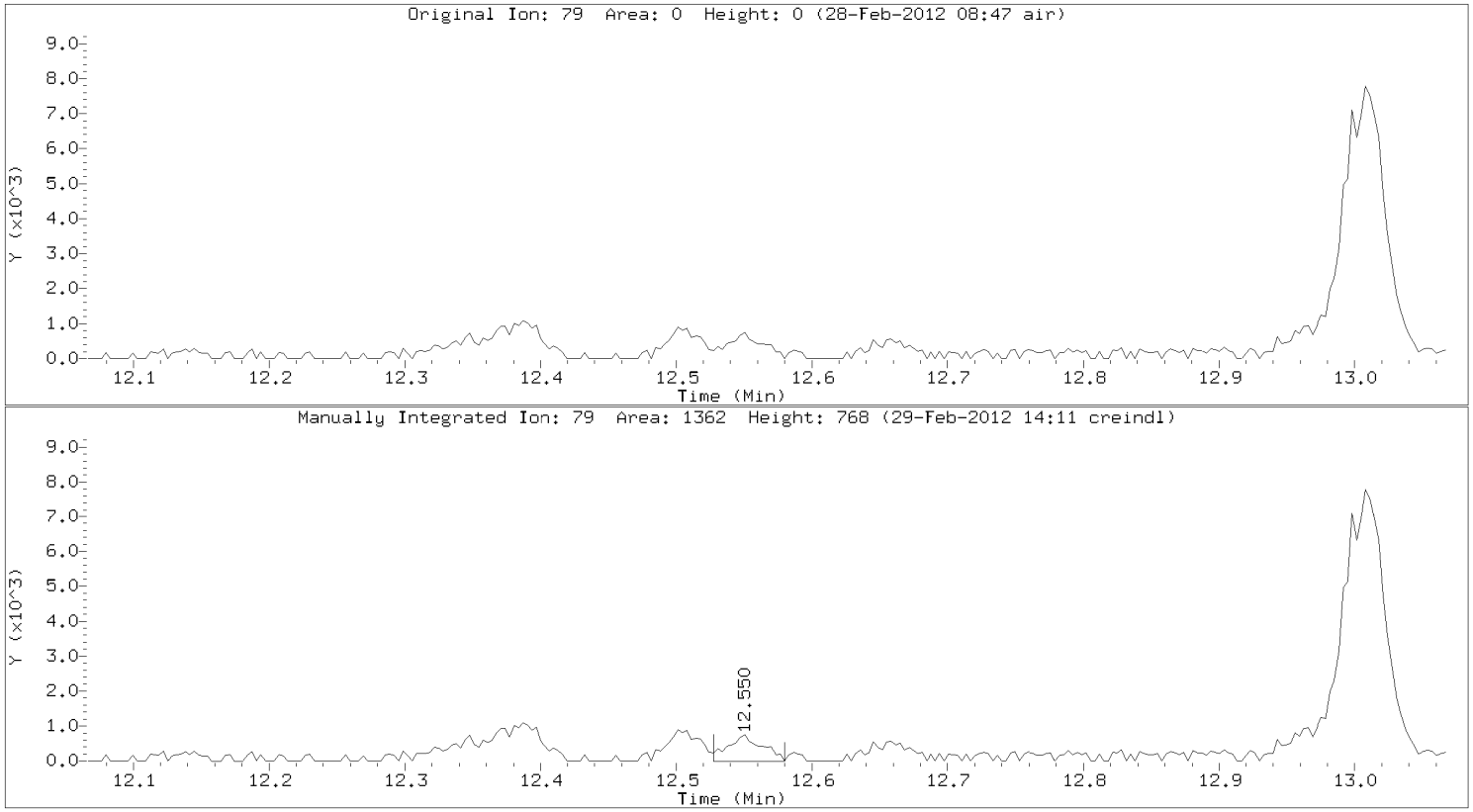


Data File: \\192.168.10.12\chem\10airD.i\022712.B/05820.D
Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

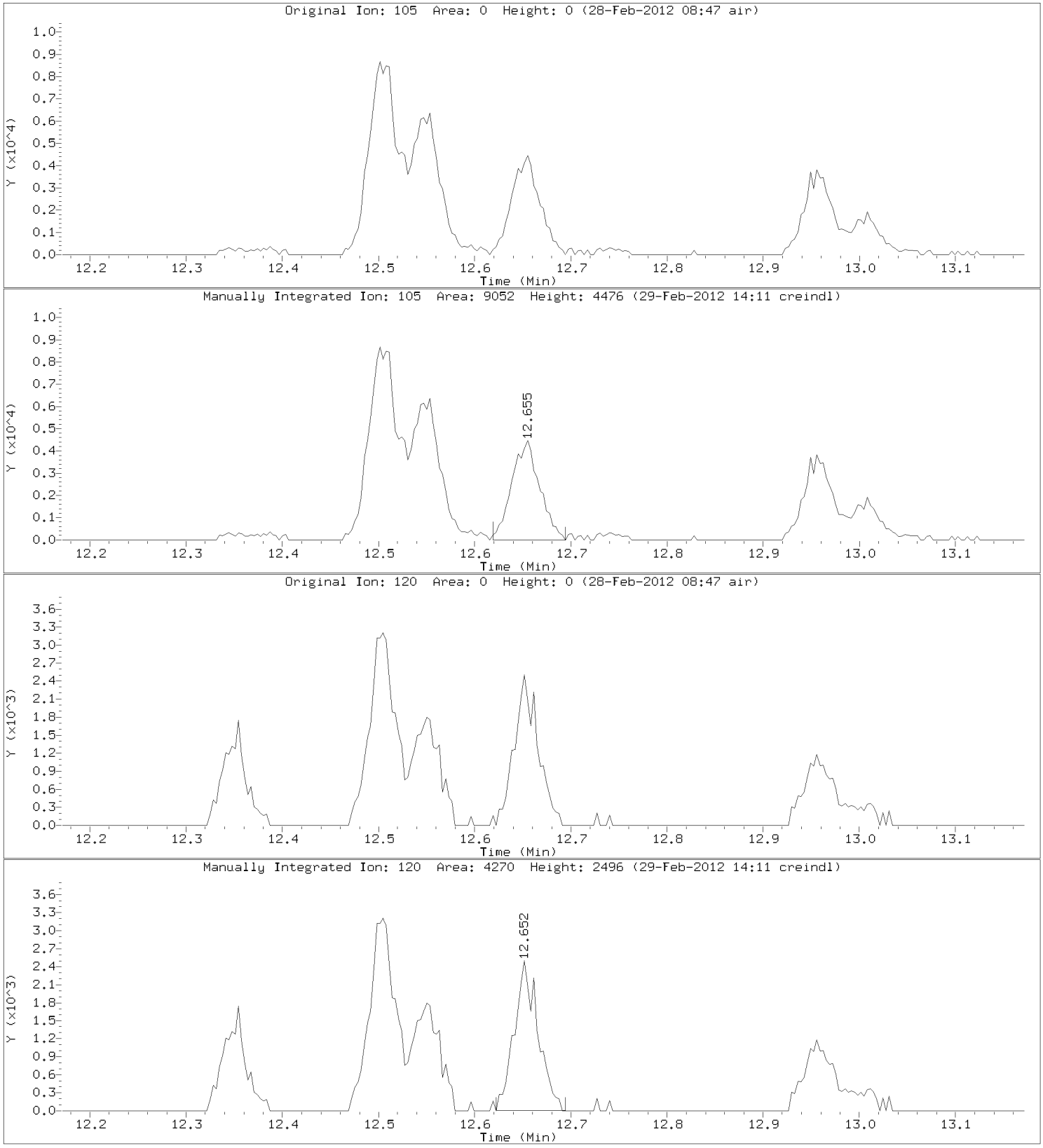


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Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005



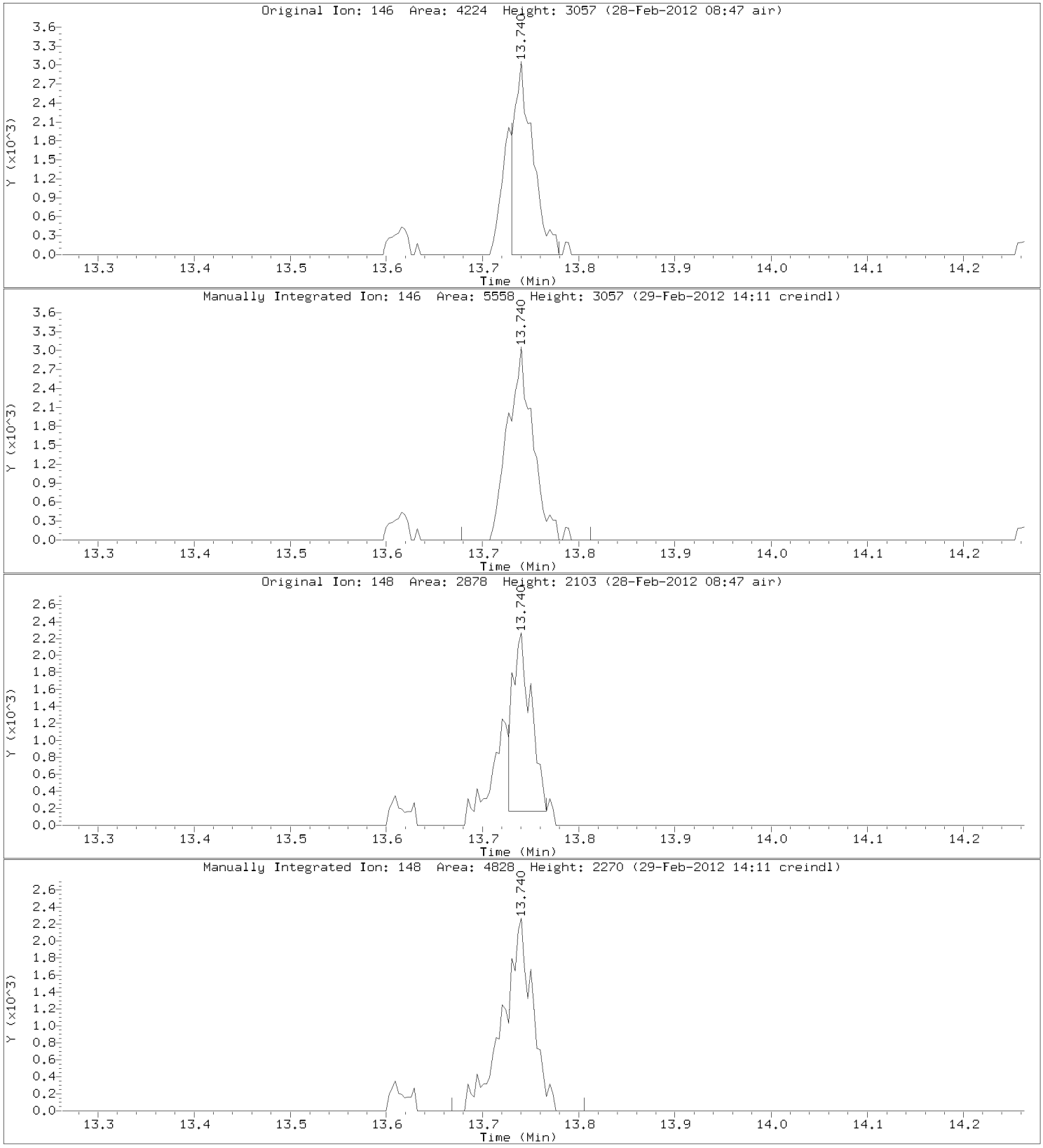
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Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05820.D
Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
Lab Sample ID: 5058707005

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



Data File: \\192.168.10.12\chem\10airD.i\022712.B/05820.D
Injection Date: 27-FEB-2012 21:36
Instrument: 10airD.i
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